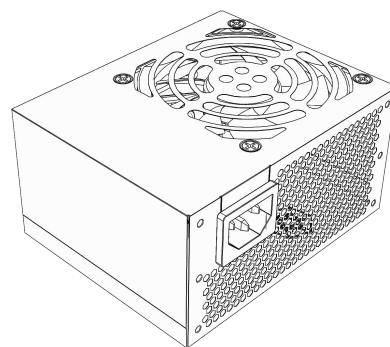


VF-1 User Manual

COMPONENTS SUPPORTED

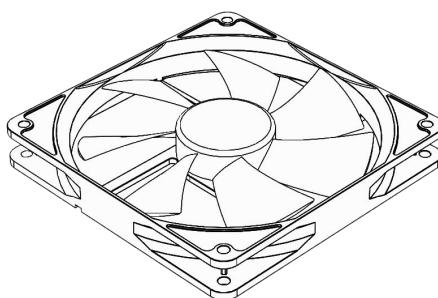
PSU

SFX, SFX-L



FAN

4 x standard 140mm fans

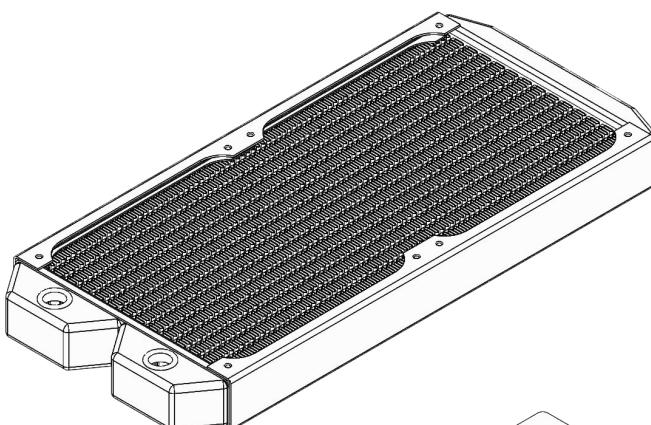


MOTHERBOARD

Mini-ITX, Mini-DTX

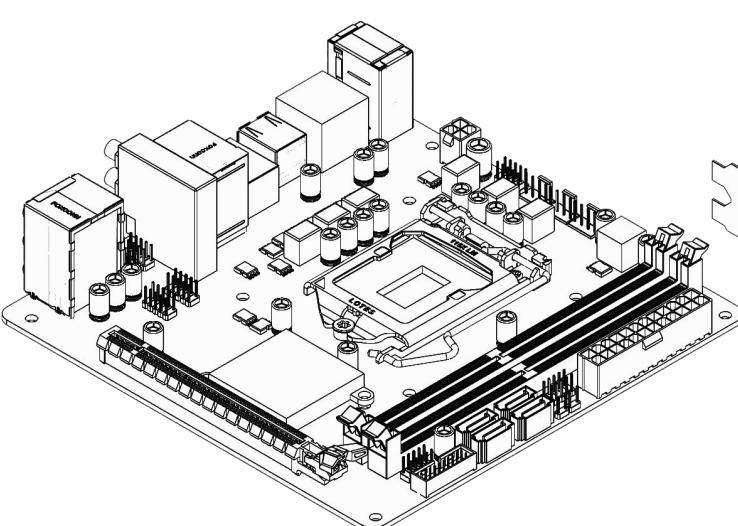
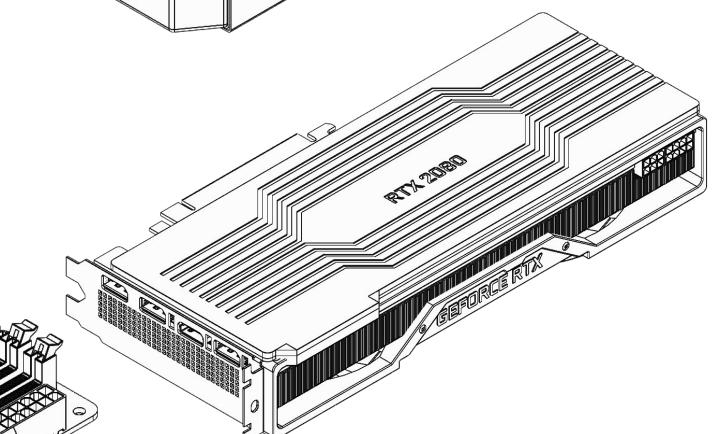
RADIATOR

280 type, up to 320mm length, 30mm height



GRAPHICS CARD

2-slot, up to 300mm supported



HARD DISK DRIVES

M.2, Full front and rear access
2 x 2.5" SSD (OPTIONAL BRACKET)

Read before assembly

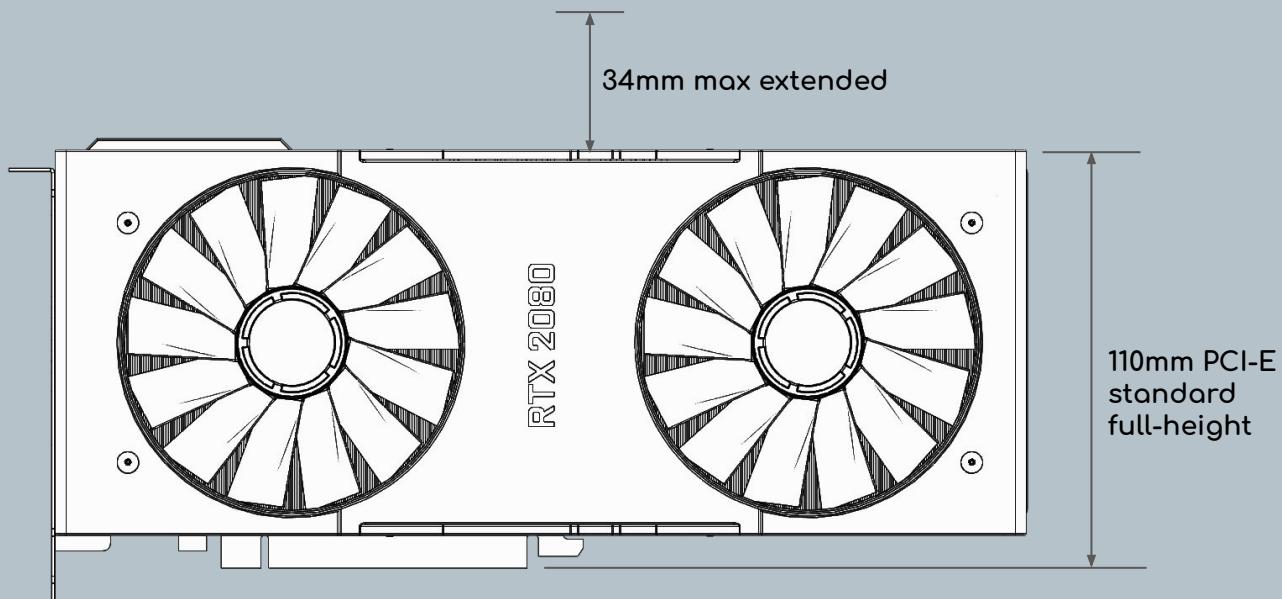
- ★ Study the instructions thoroughly before assembly.
- ★ There are many small screws, nuts and similar parts. Assembly them carefully referring to the drawings.
- ★ It is advised to assemble each step exactly as shown.
- ★ This product is designed to be easy to assemble. But this is not a toy and should 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.

Graphics card selection

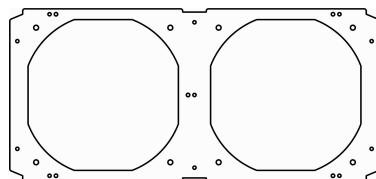
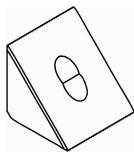
- ★ To ensure your graphics card is usable in the case, please adhere to the following dimensional requirements.
- ★ Note that full cover waterblocks typically has an extended height area for tubing fittings. This can be very much taller for some GPU manufacturers.



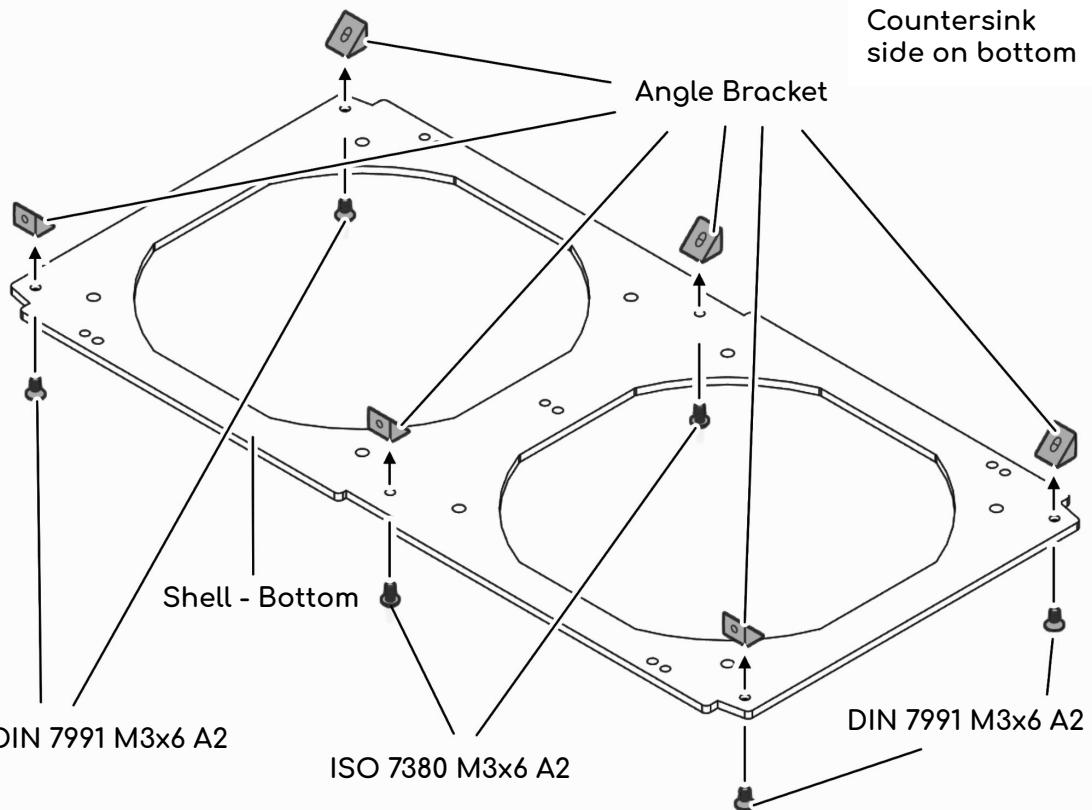
Specifications

Width: 170mm	Length: 376mm
Height: 325mm (with feet)	Internal volume: 17.5L

1

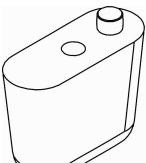
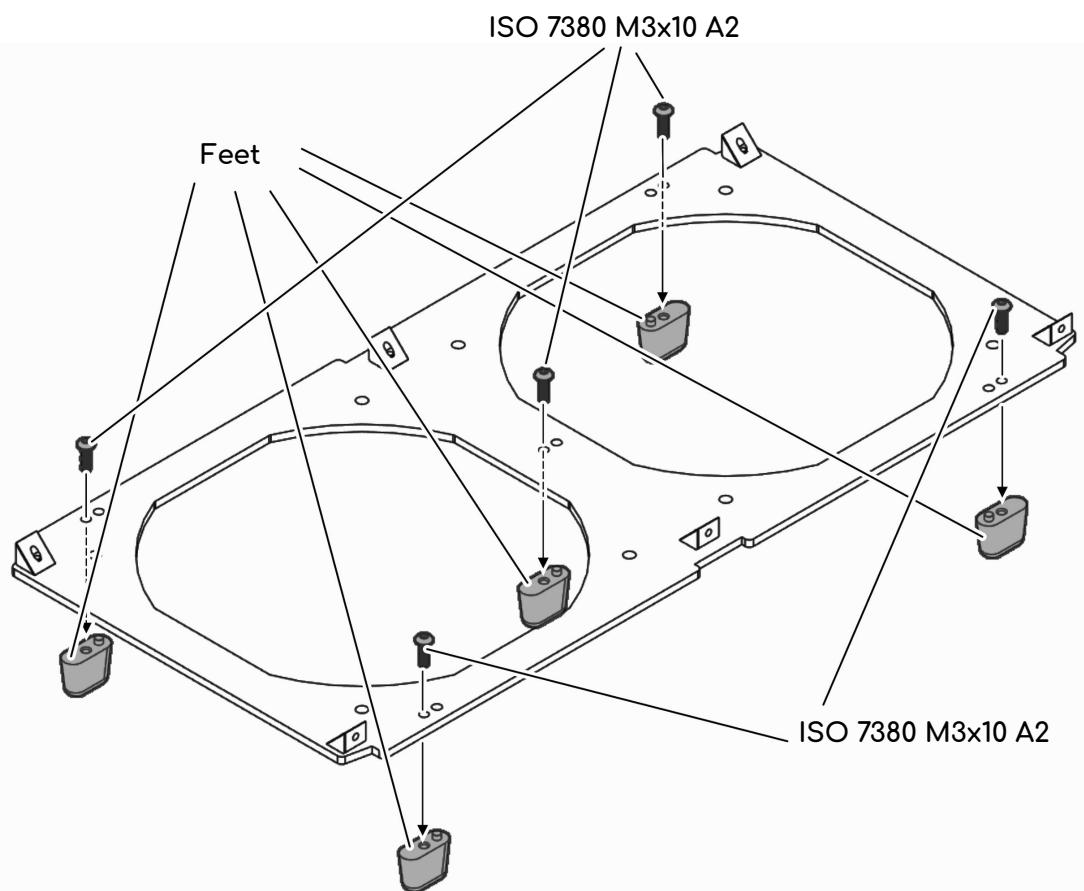
**Shell - Bottom****Angle Bracket x 6****DIN 7991 M3x6 A2 x 4****ISO 7380 M3x6 A2 x 2**

1

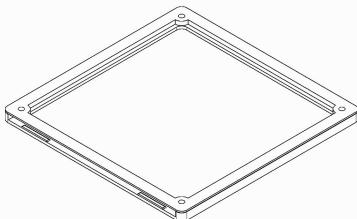
Base cross-member support assembly

2

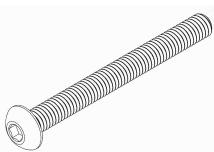
2

Attaching the feet**Feet x 5****ISO 7380 M3x10 A2 x 5**

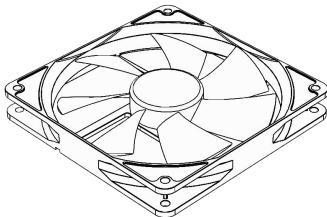
3



Filter Frame x 2



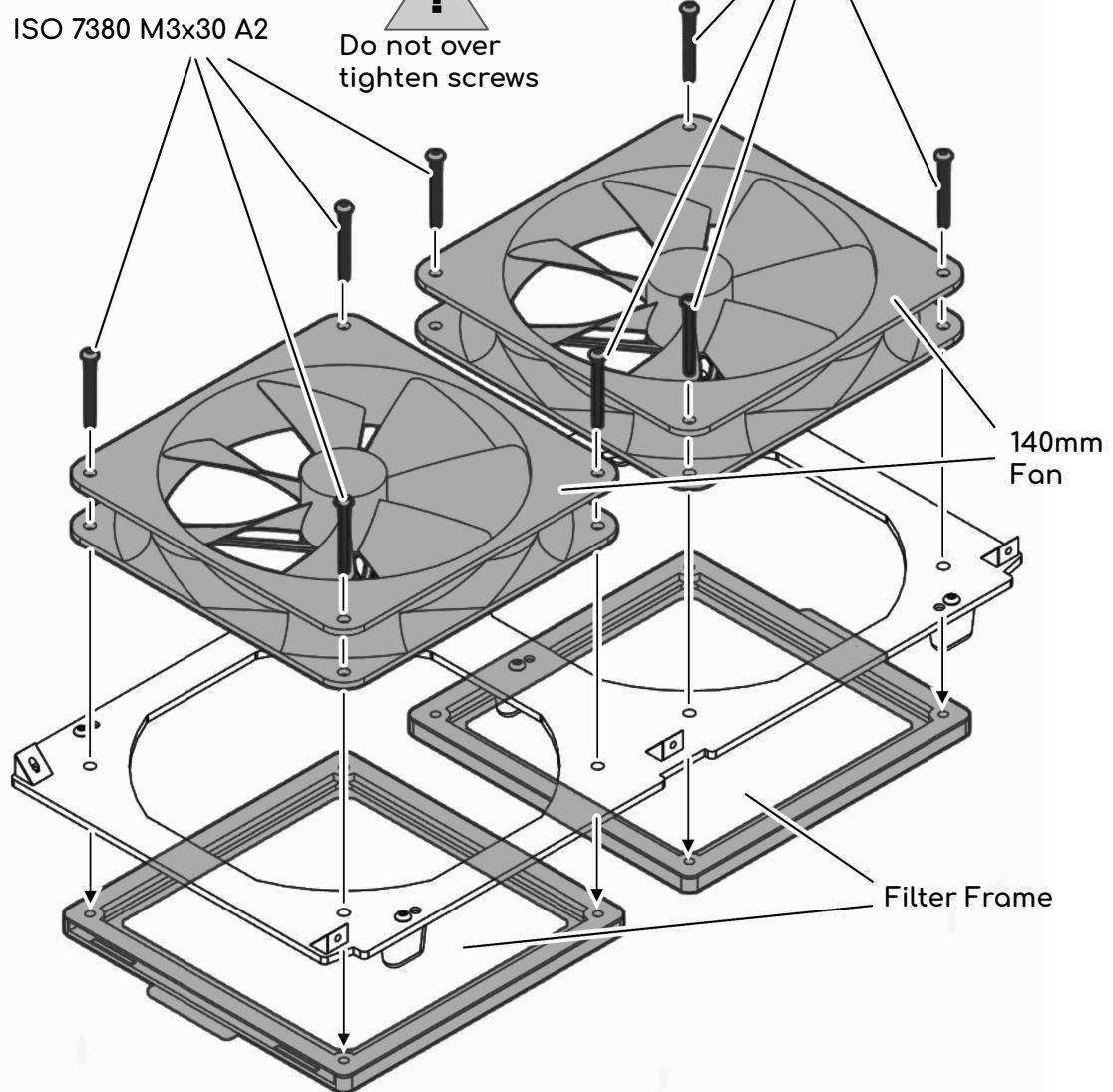
ISO 7380 M3x30 A2 x 8



140mm Fan x 2
(User supplied)

3

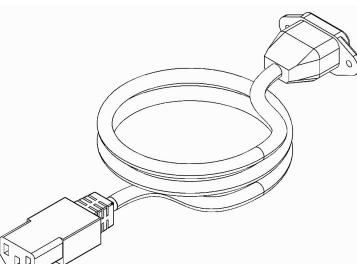
Fan and filter assembly



4

4

Power cord placement

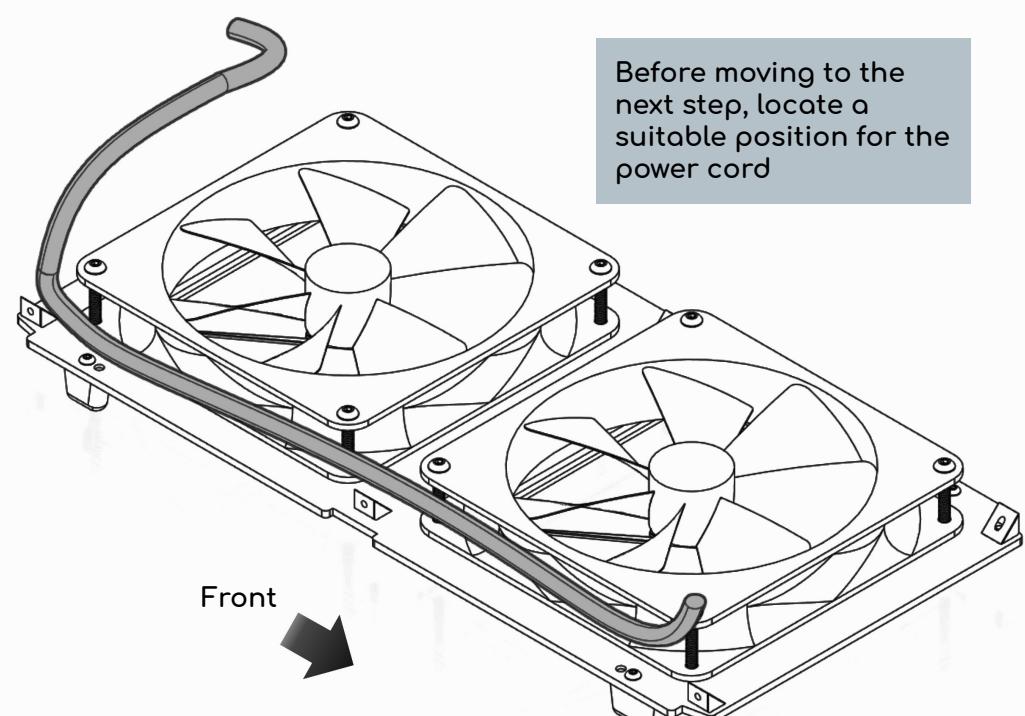


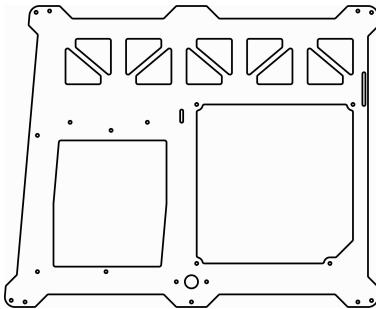
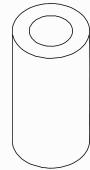
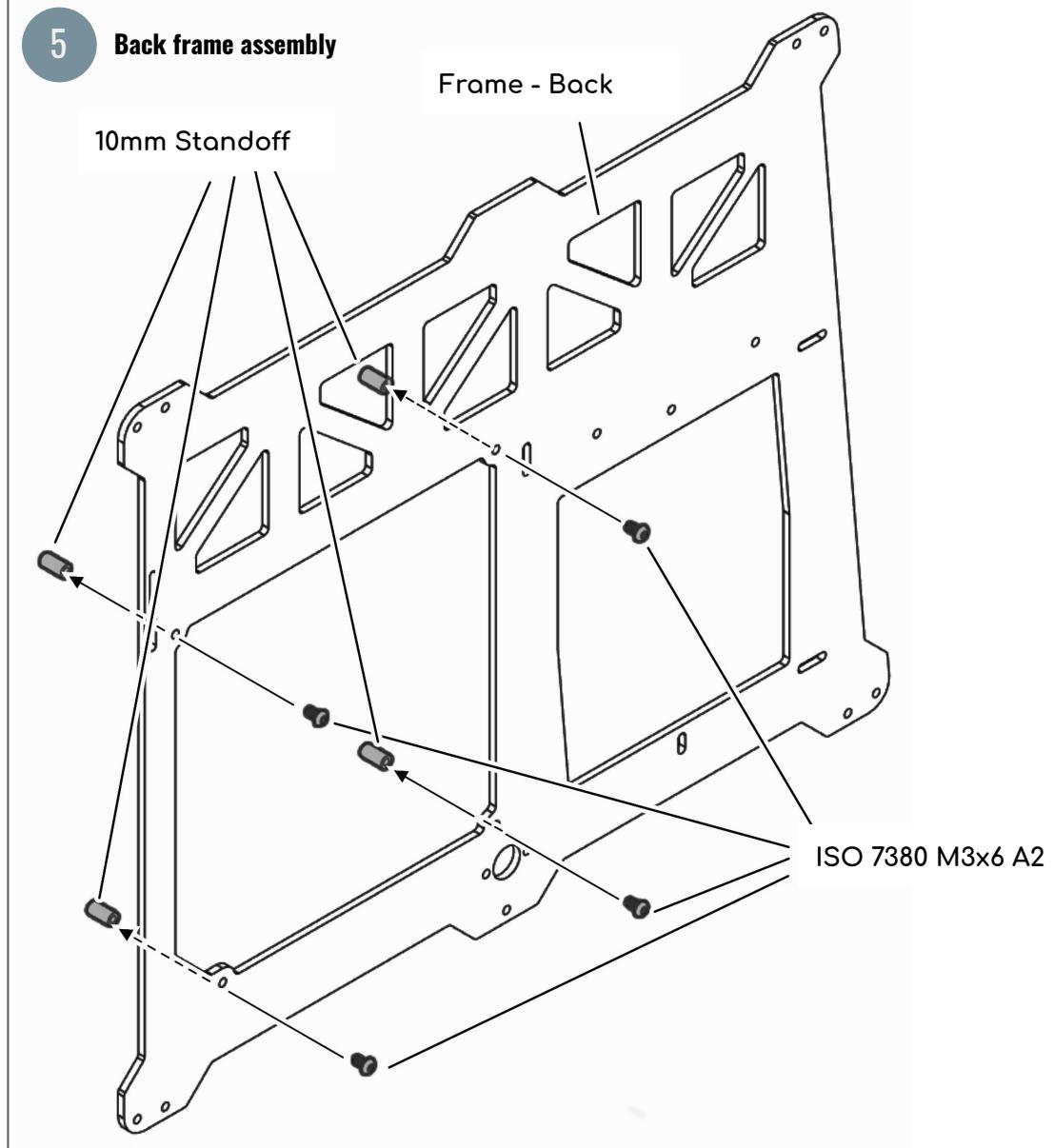
IEC320 C14 to C13

Extension Cord

(Note that orientation of female plug may differ)

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

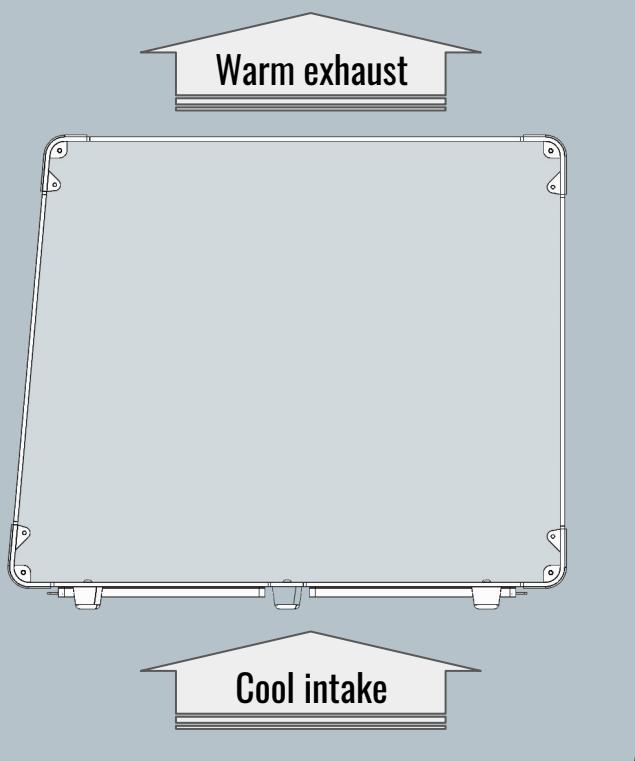


Back frame assembly**Frame - Back****10mm Standoff x 4****ISO 7380 M3x6 A2 x 4****Design philosophy**

Seasoned PC builders will tell you that more than often, a complete clean out of accumulated dust can restore a PC to healthy operation.

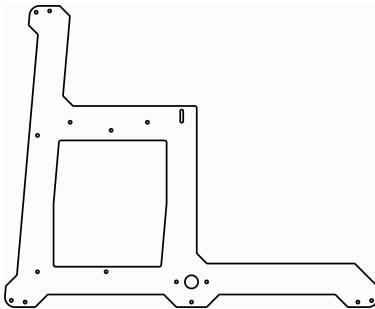
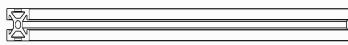
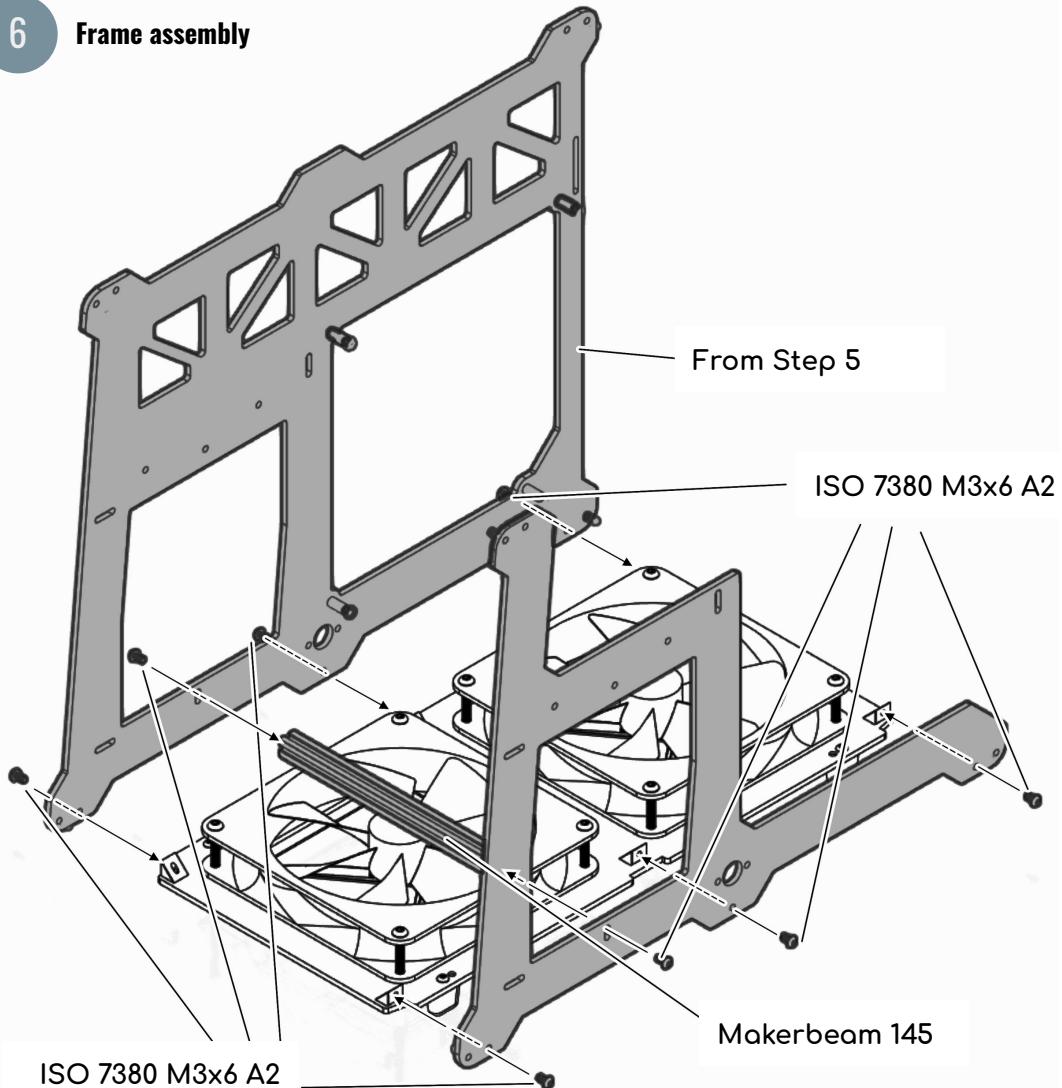
With a neutral or **positive air pressure design**, cool air can only enter the case **fully filtered** from the bottom.

Inverted layout allows showcasing the graphics card and lets airflow cleanly exhaust from the top as hot air rises.



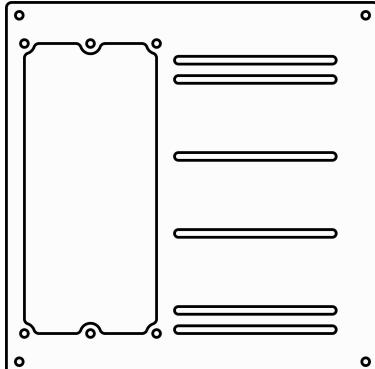
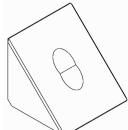
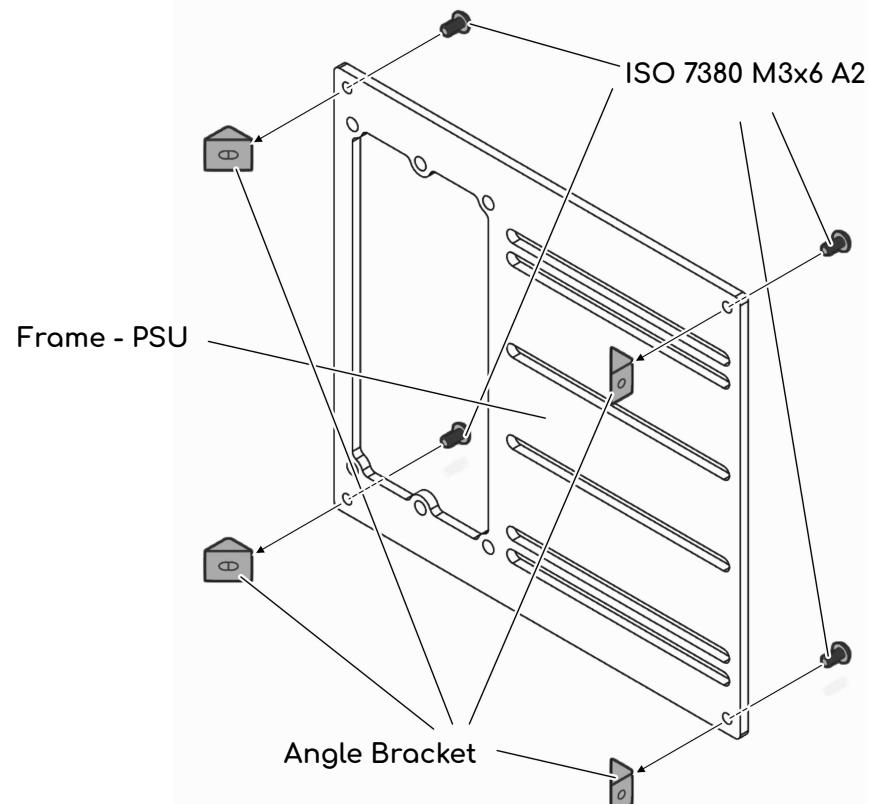
6

6

Frame assembly**Frame - Front****Makerbeam 145 x 1****ISO 7380 M3x6 A2 x 8**

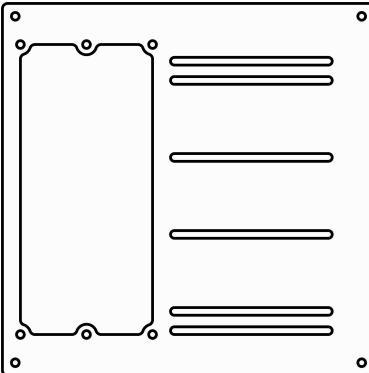
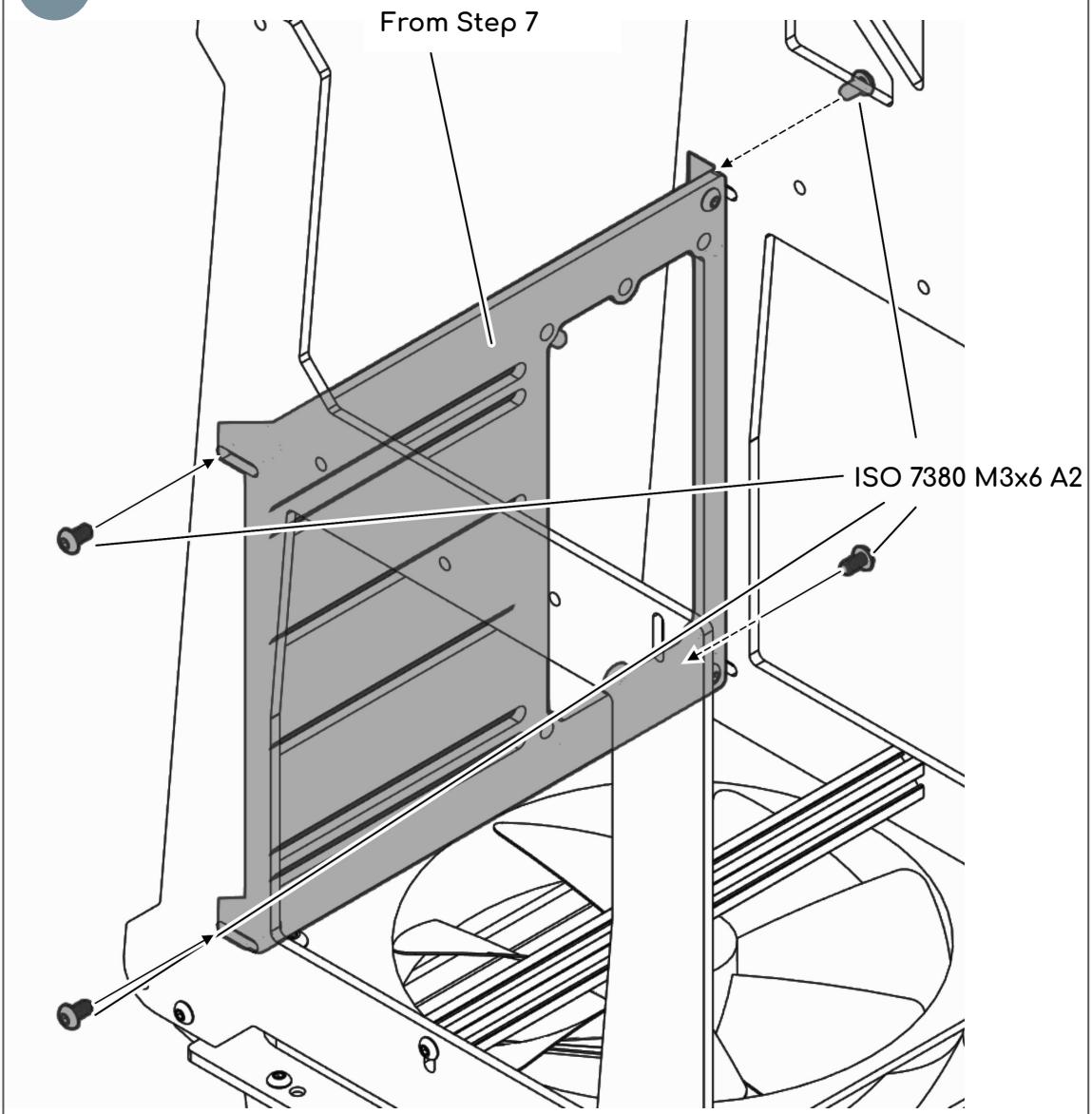
7

7

PSU support assembly**Frame - PSU****Angle Bracket x 4****ISO 7380 M3x6 A2 x 4**

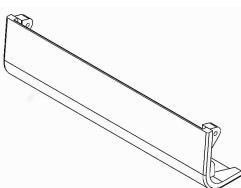
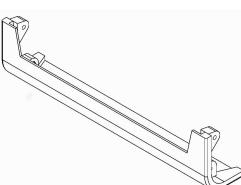
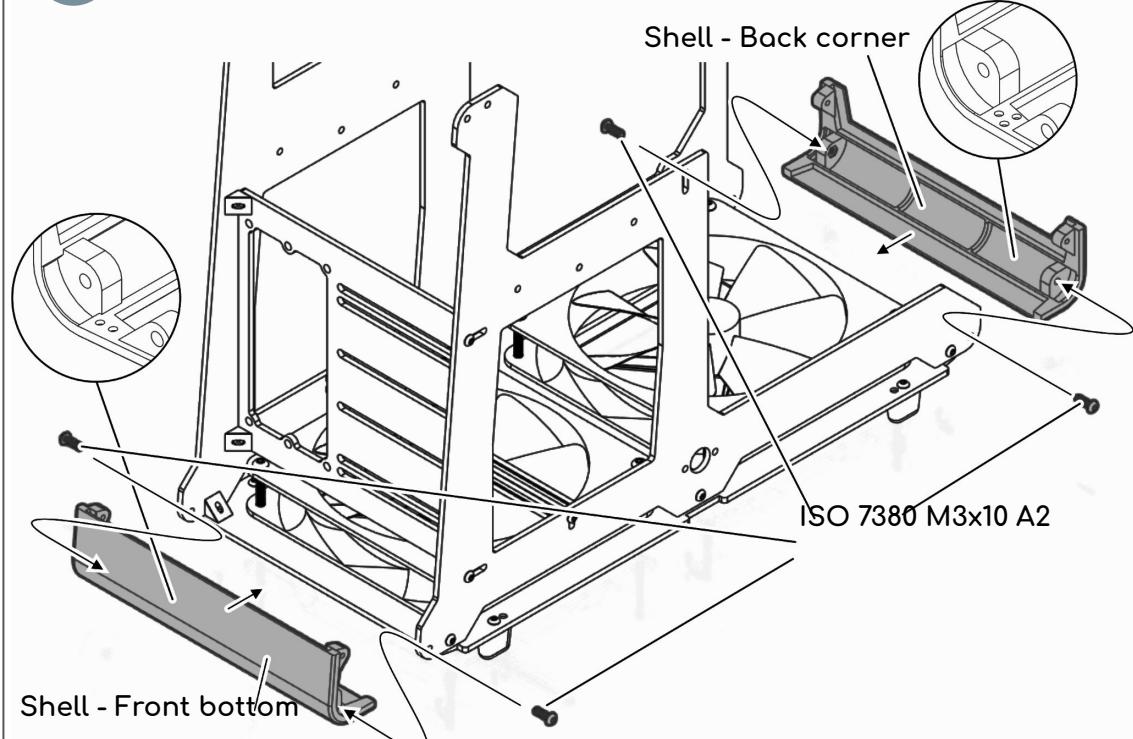
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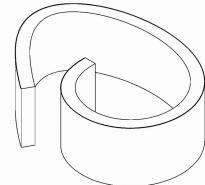
8

Frame assembly**Frame - PSU****ISO 7380 M3x6 A2 x 4**

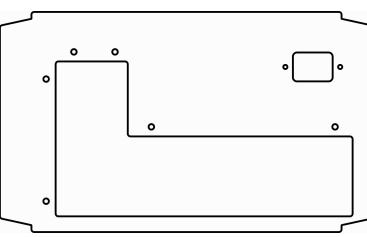
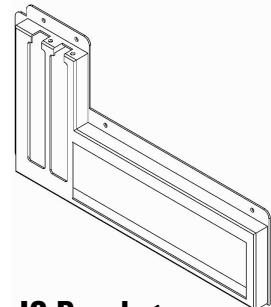
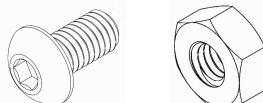
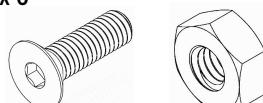
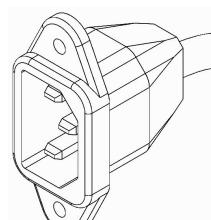
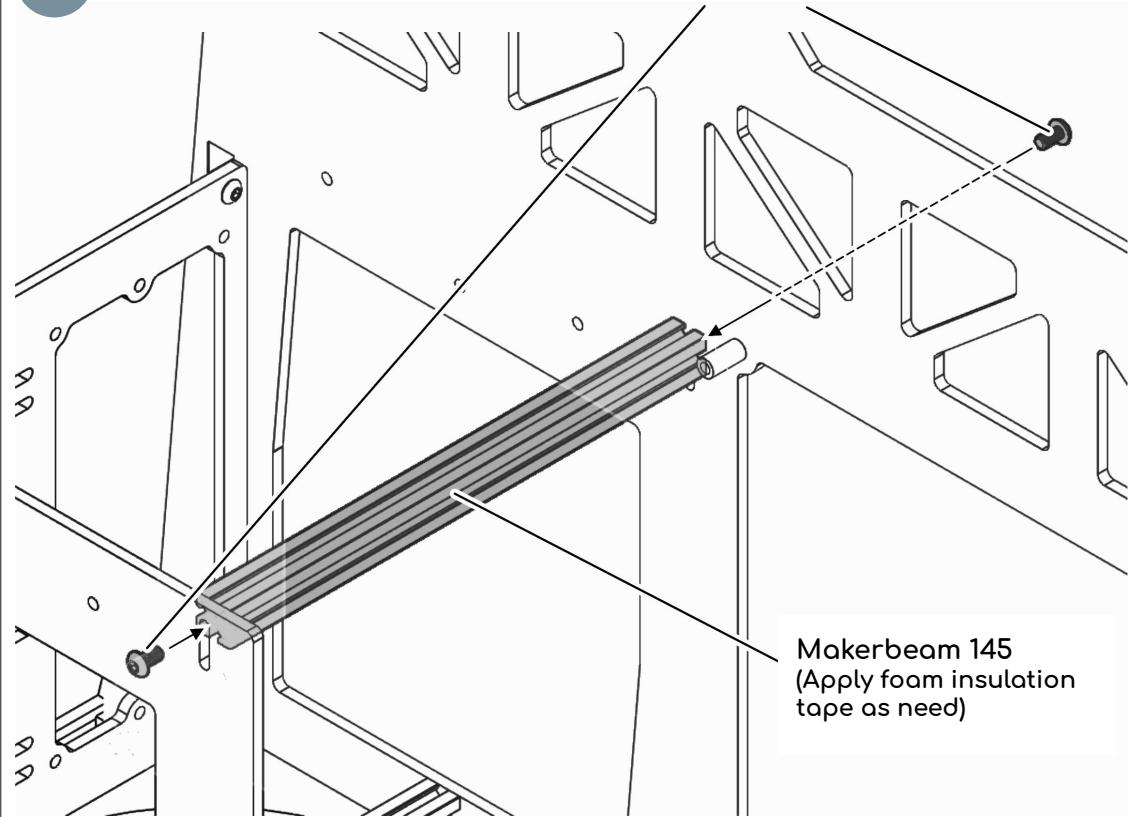
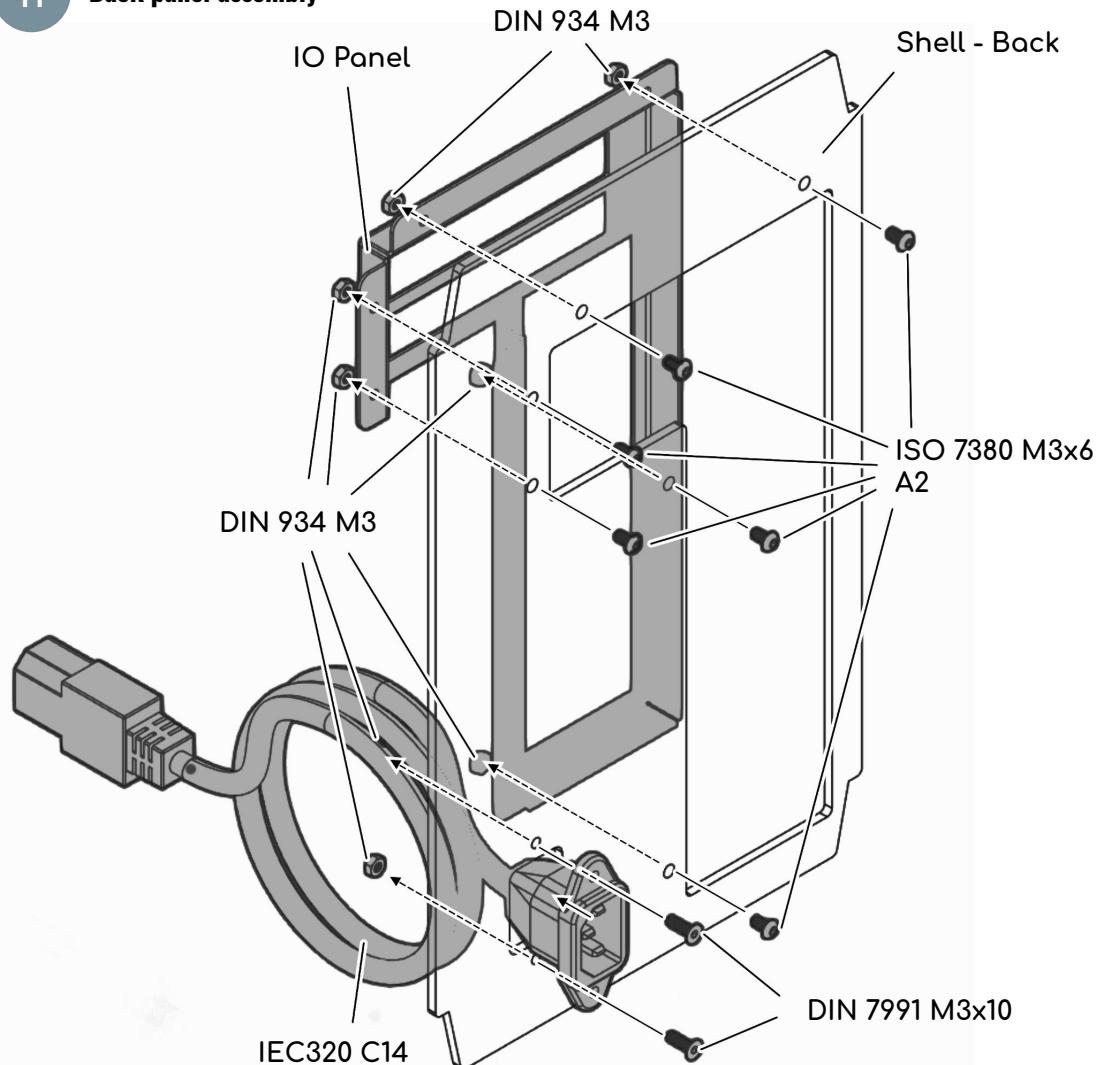
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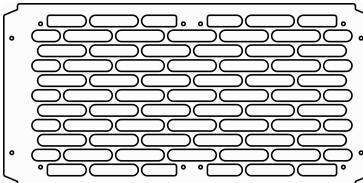
9

Bottom shell assembly**Shell - Front bottom****Shell - Back corner****ISO 7380 M3x10 A2 x 4**

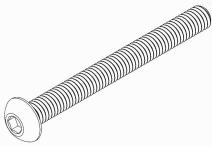
**Makerbeam 145 x 1****ISO 7380 M3x6 A2 x 2****EVA foam tape**

Adjust position and apply EVA foam insulation tape as suitable for your graphics card

**Shell - Back****IO Panel x 1****ISO 7380 M3x6, DIN 934 M3 x 6****DIN 7991 M3x10, 934 M3 x 2****IEC320 C14 x 1****Graphics card support****ISO 7380 M3x6 A2****Back panel assembly**



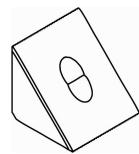
Shell - Top



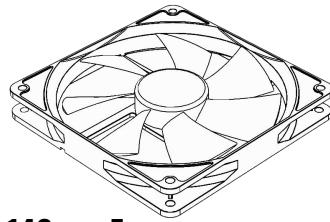
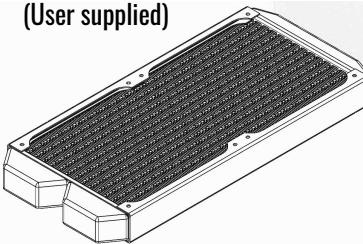
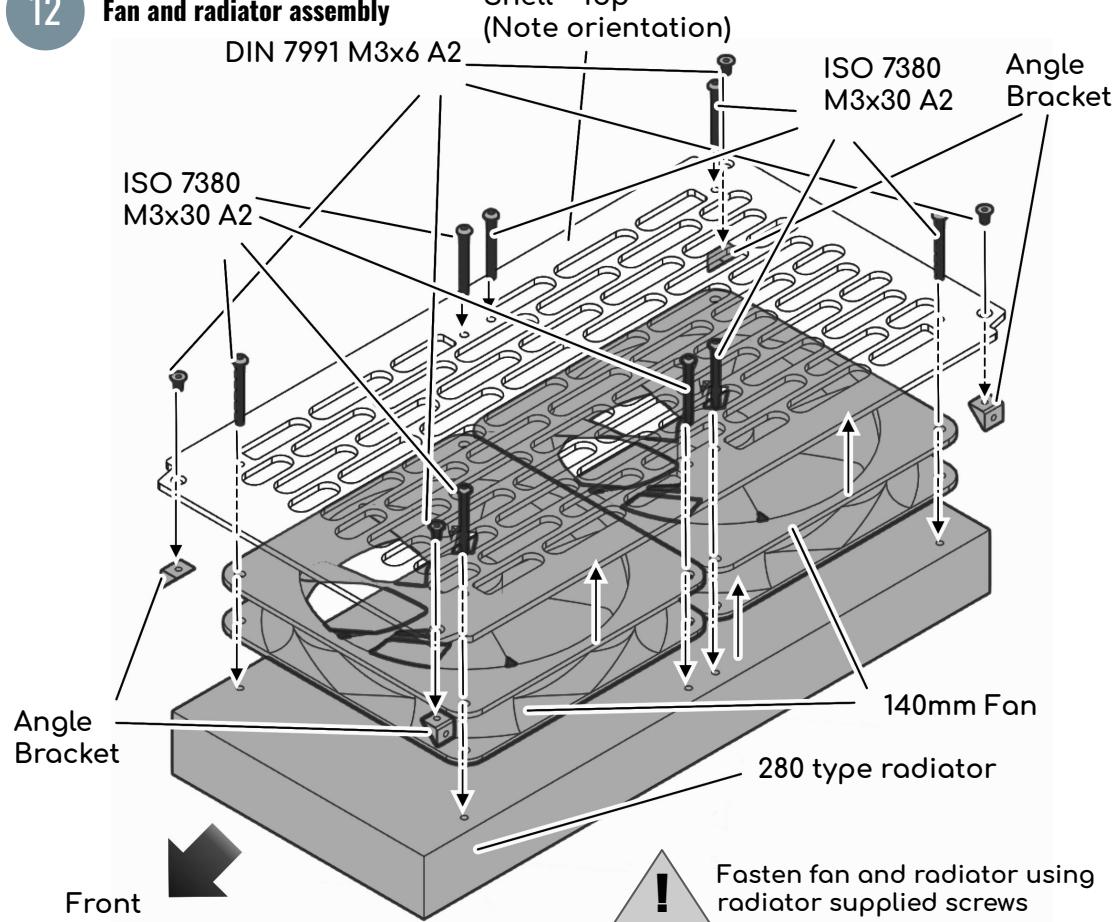
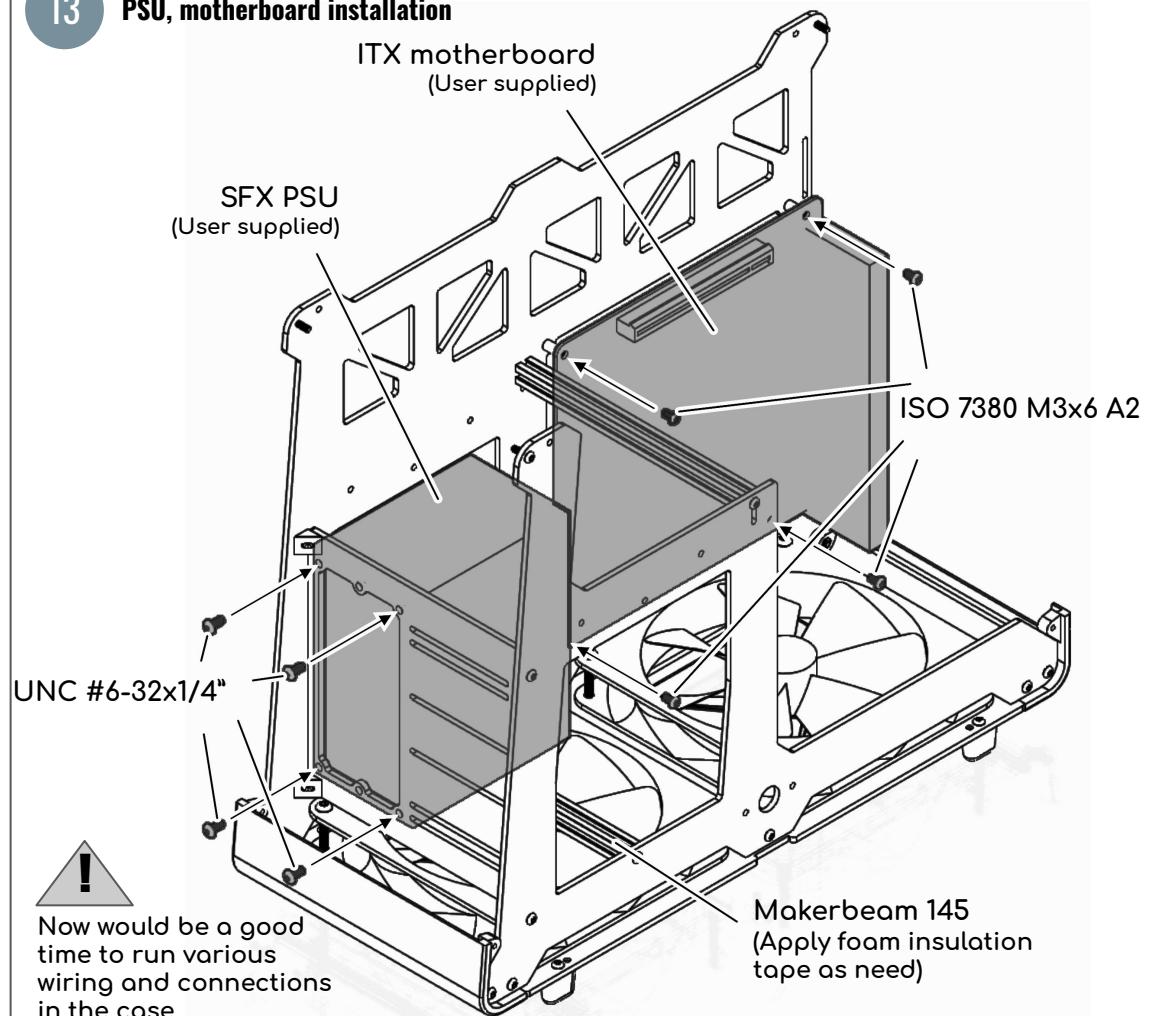
ISO 7380 M3x30 A2 x 8



DIN 7991 M3x6 A2 x 4



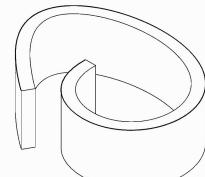
Angle Bracket x 4

140mm Fan x 2
(User supplied)280 type radiator
(User supplied)**Fan and radiator assembly****PSU, motherboard installation**

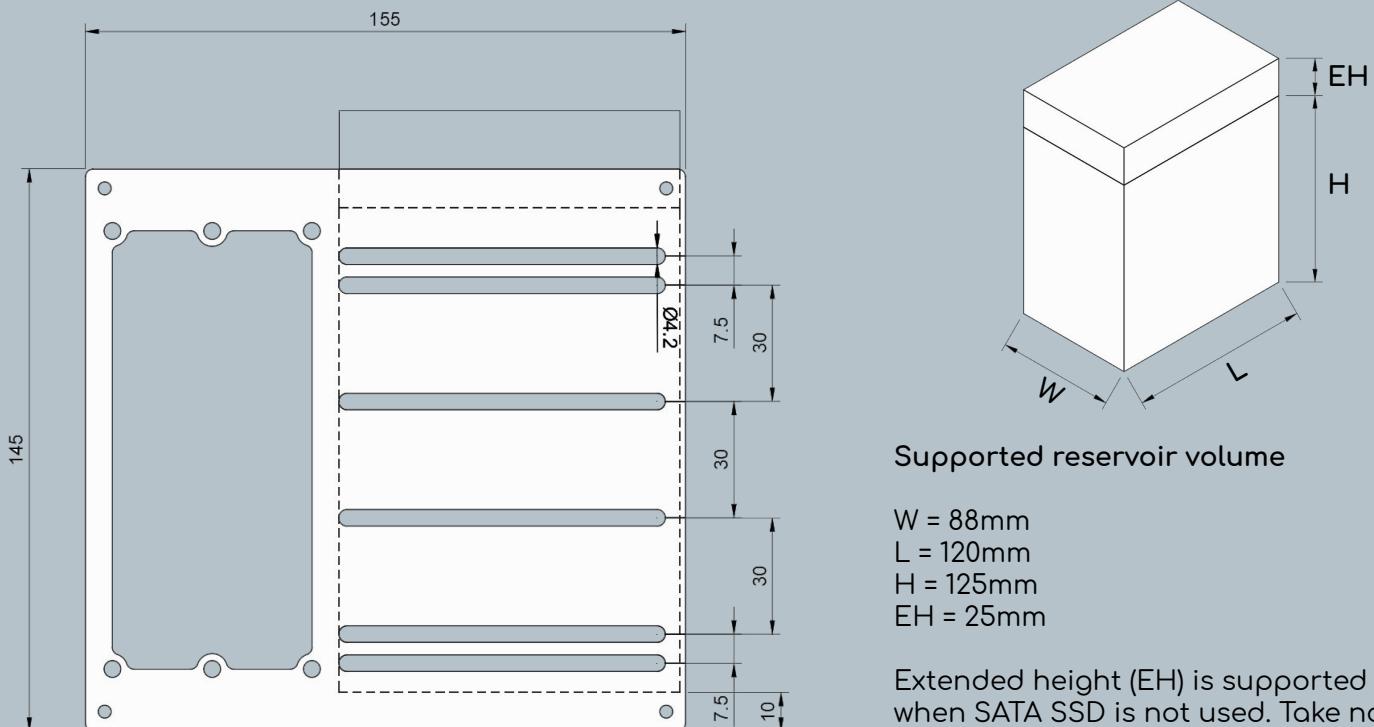
ISO 7380 M3x6 A2 x 4



UNC #6-32x1/4" x 4



EVA foam tape

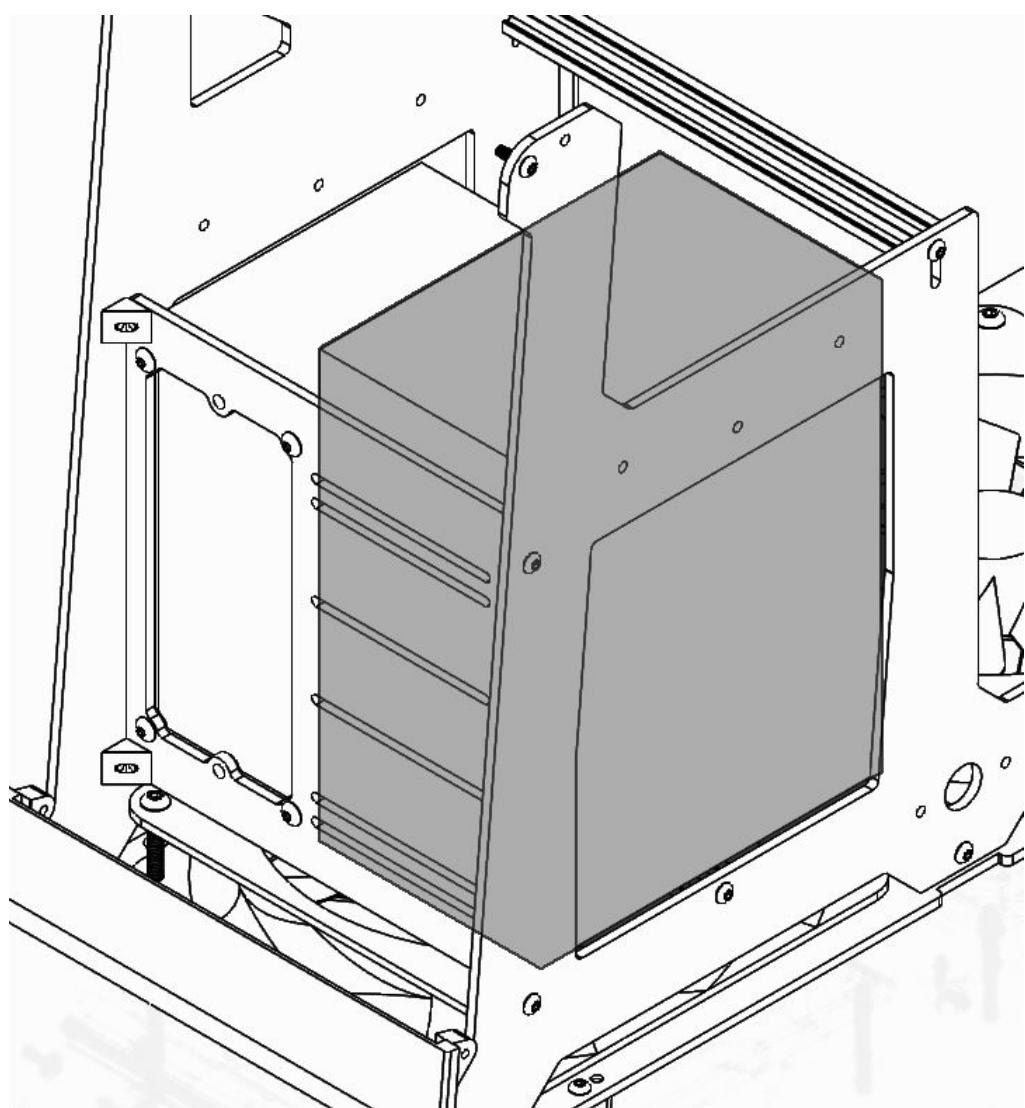


14

Reservoir should be mounted on PSU frame as appropriate using custom or supplied bracket and is designed to rest on the Makerbeam underneath the PSU.

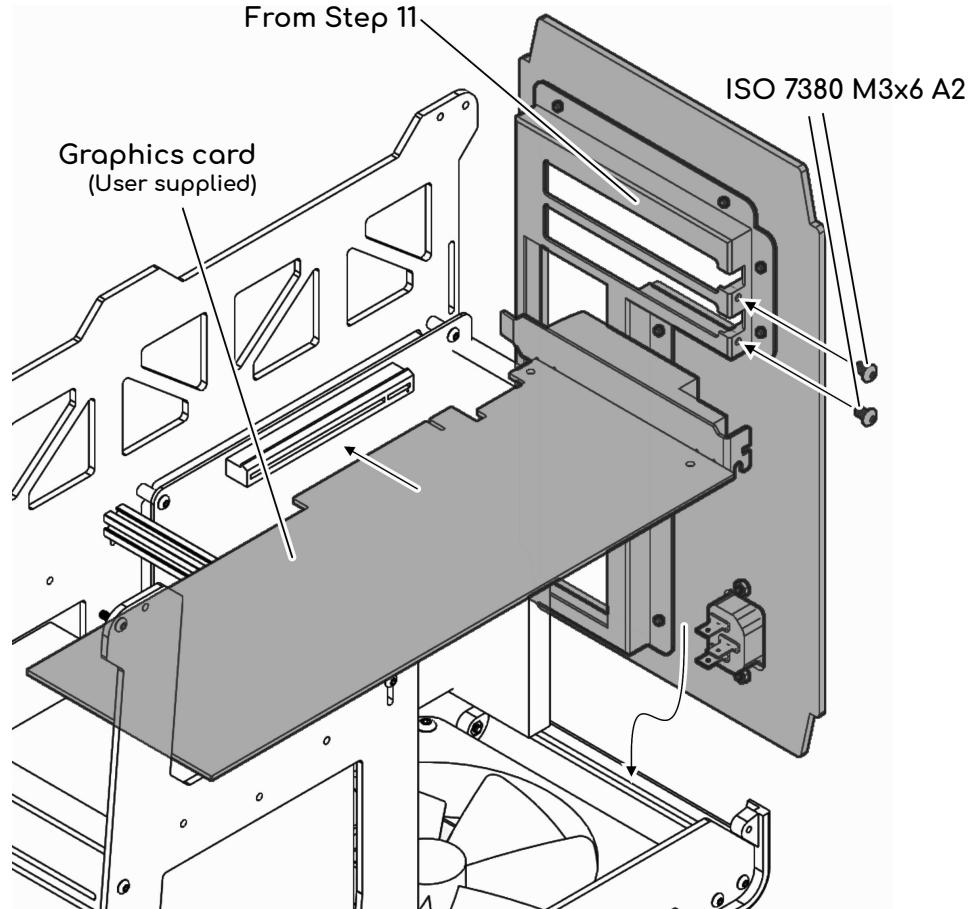
14

Reservoir installation

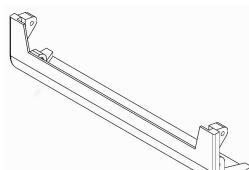




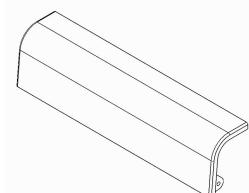
ISO 7380 M3x6 A2 x 2

Graphics card and IO Panel assembly

Shell - Front



Shell - Back corner



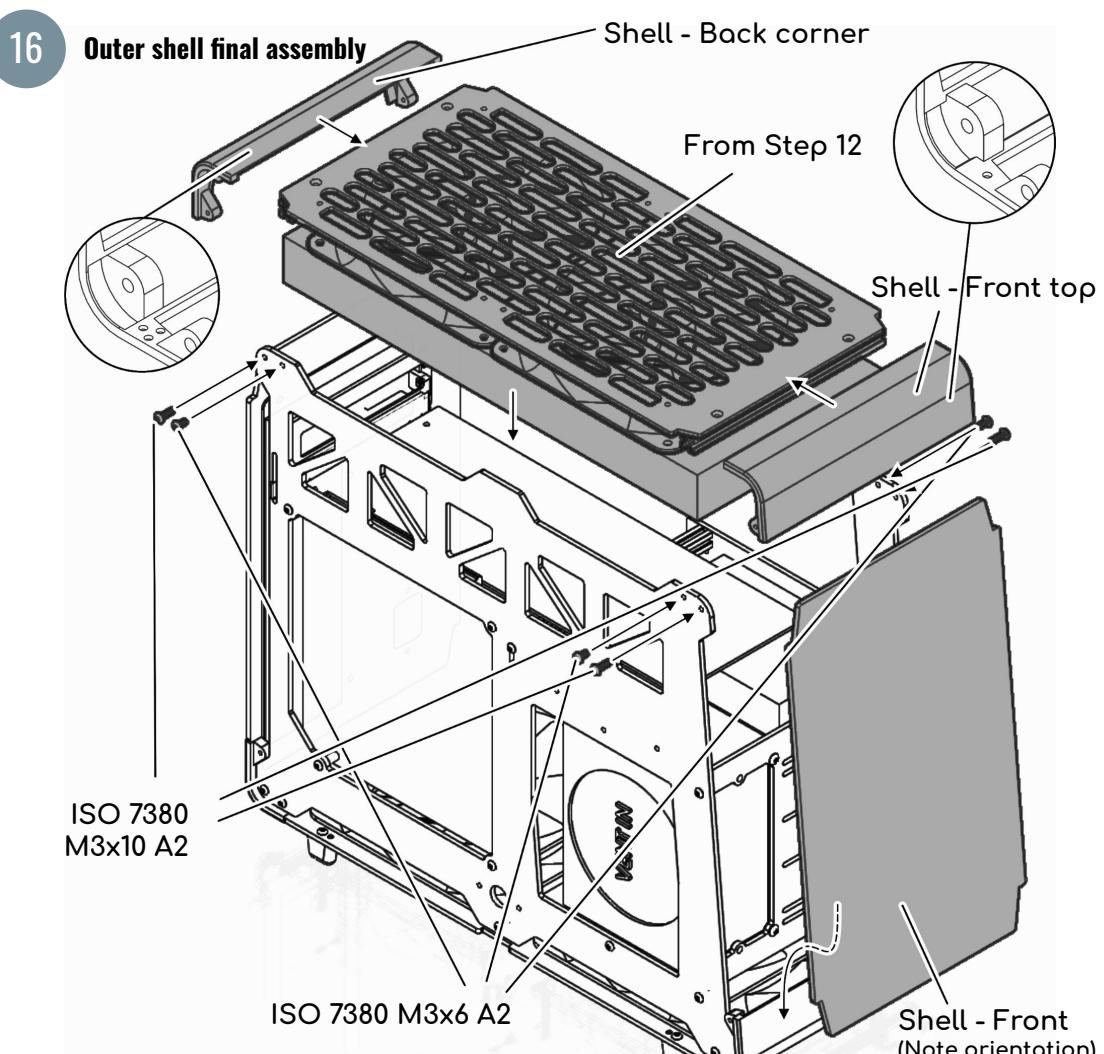
Shell - Front bottom

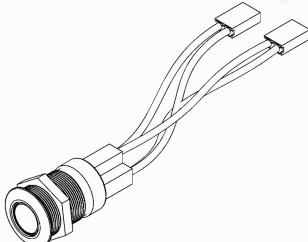
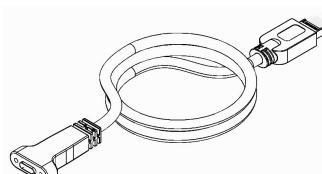
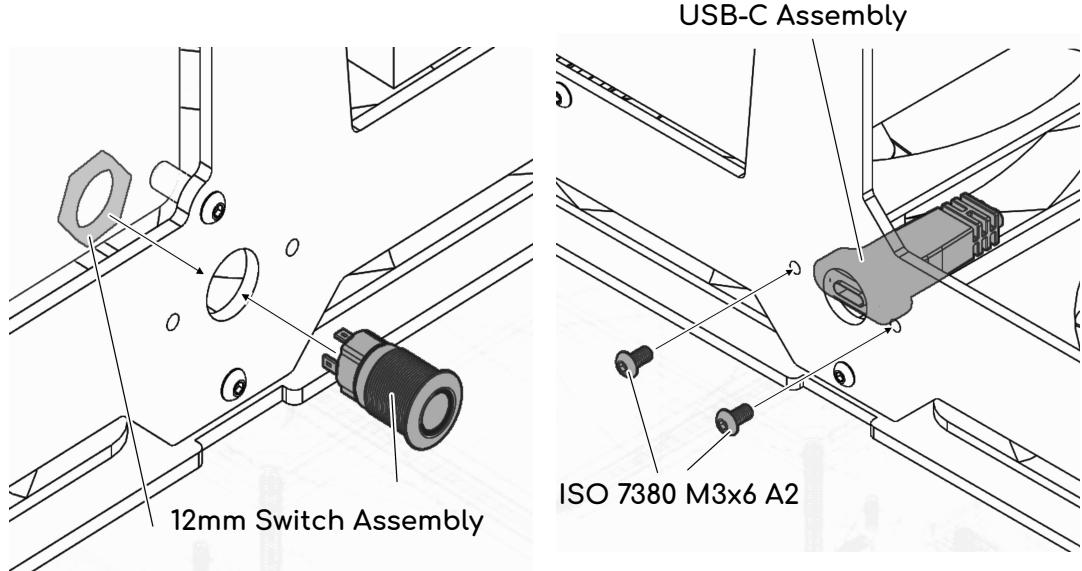


ISO 7380 M3x6 A2 x 2

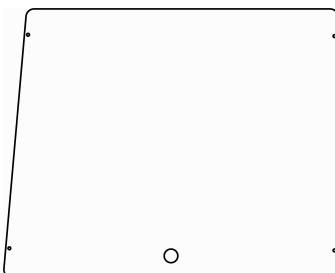
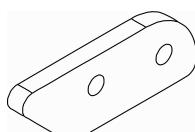
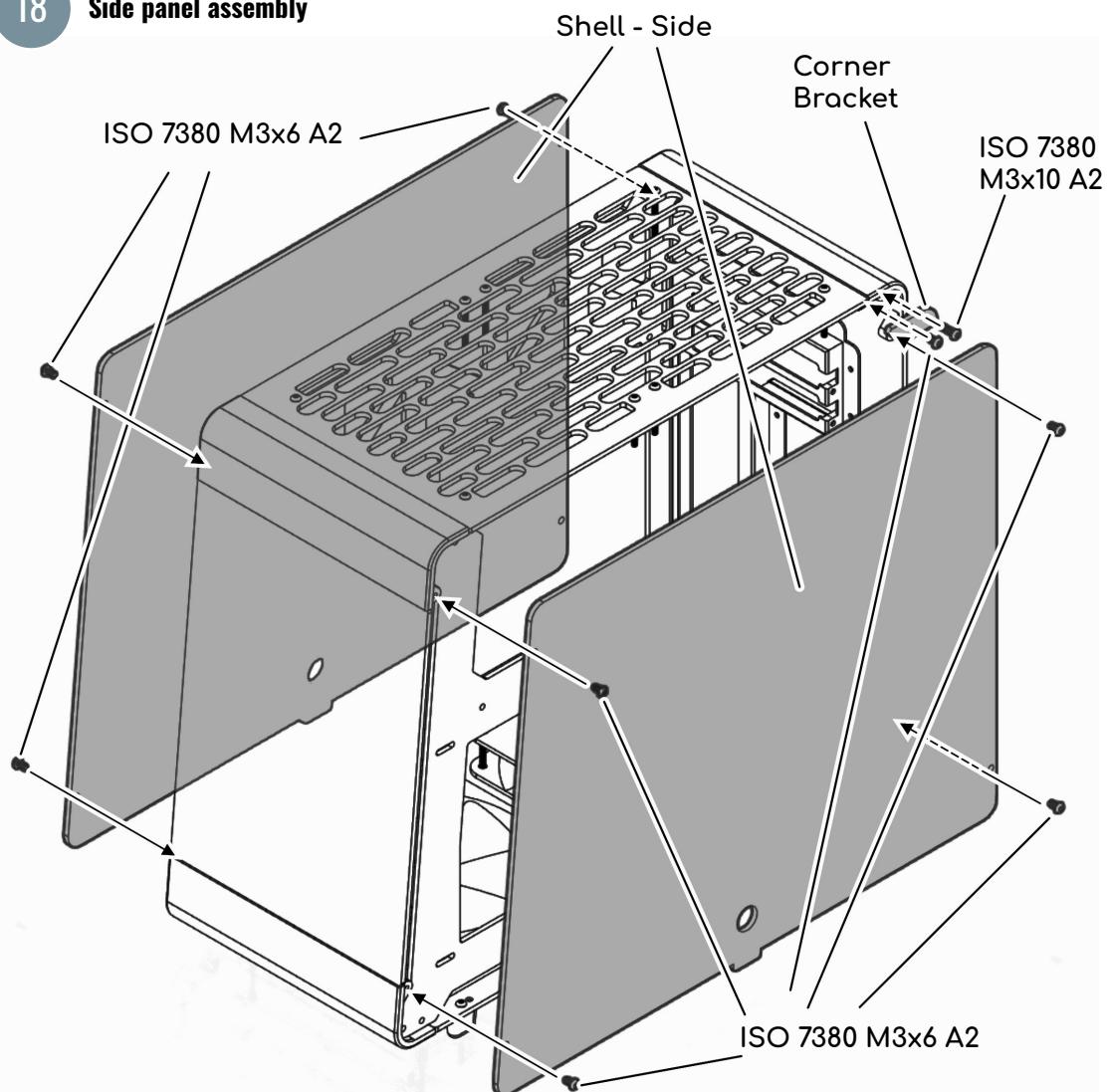


ISO 7380 M3x10 A2 x 3

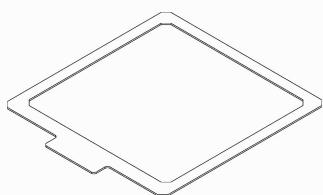
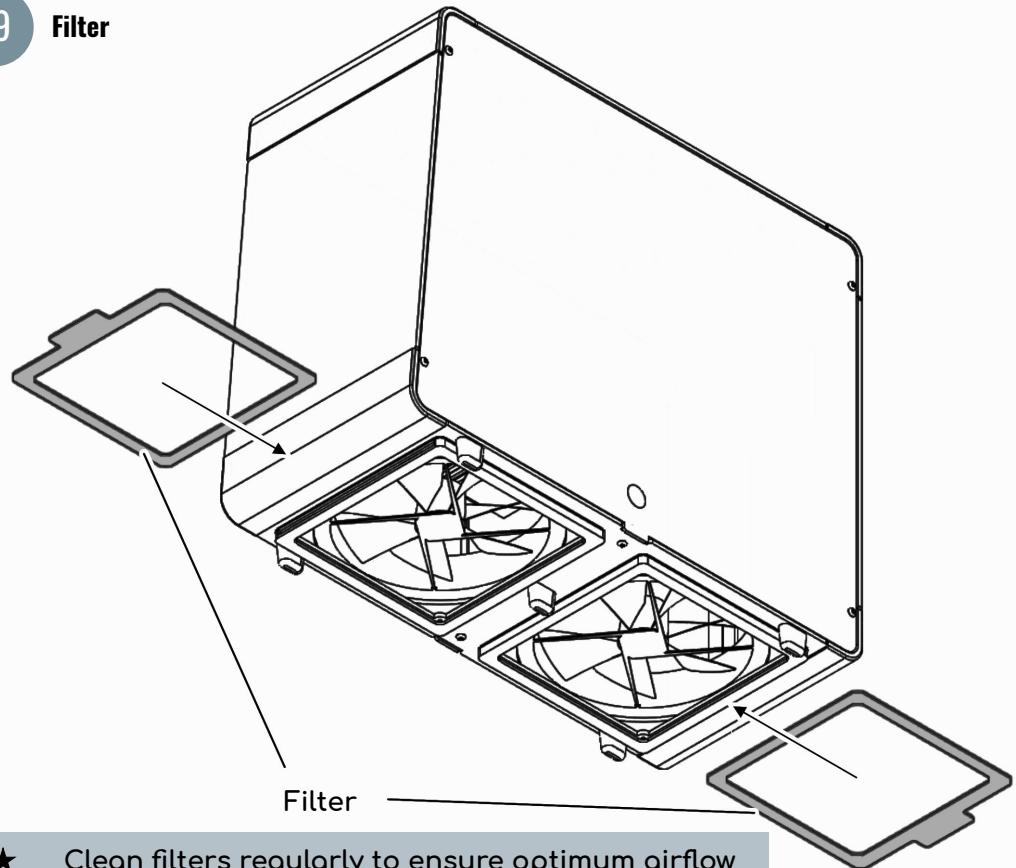
Outer shell final assembly

Switch and USB port assembly**12mm Switch Assembly****USB-C Assembly****ISO 7380 M3x6 A2 x 2**

- ★ Install switch and USB port on either side of the frame to your preference. The mounting points are symmetrical.
- ★ You should also at this point also complete installation of all watercooling loops and tubing.

Side panel assembly**Shell - Side x 2****Corner Bracket****ISO 7380 M3x6 A2 x 9****ISO 7380 M3x10 A2 x 1**

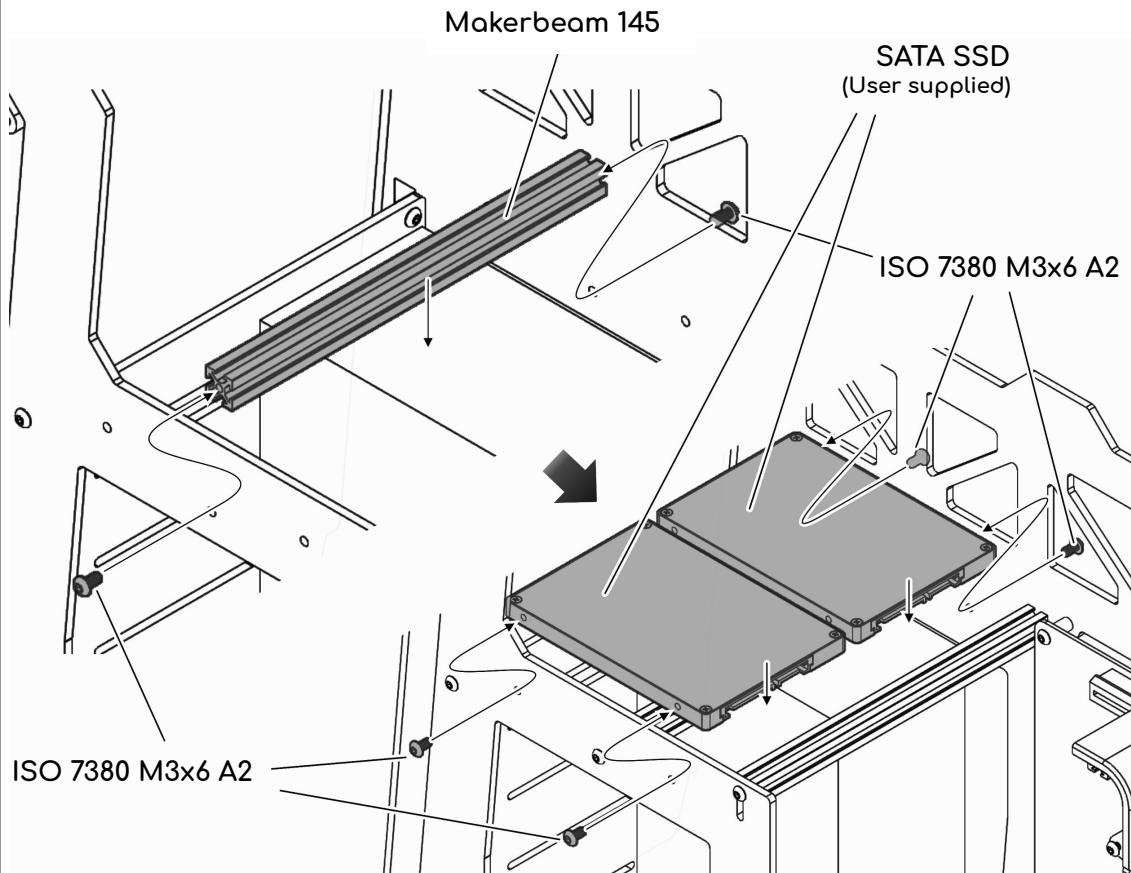
19

Filter**Filter x 2**

★ Clean filters regularly to ensure optimum airflow

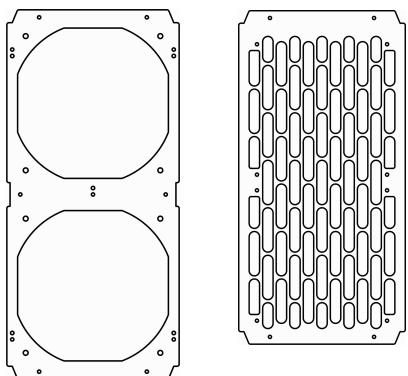
OPTIONAL**Makerbeam 145 x 1****ISO 7380 M3x6 A2 x 6**

20

Optional: SATA SSD mount

Parts List

SHELL



Bottom

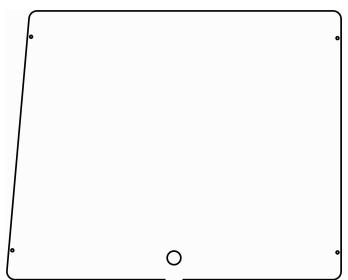
Top

Front

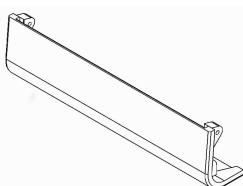
Back

3mm sheet/plate

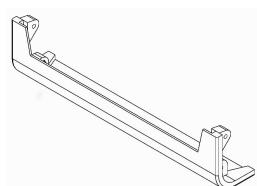
These can be made from a variety of materials. E.g. Stainless steel, aluminium, acrylic, pizza boxes...



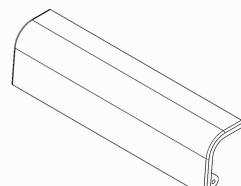
Side x 2



Front bottom

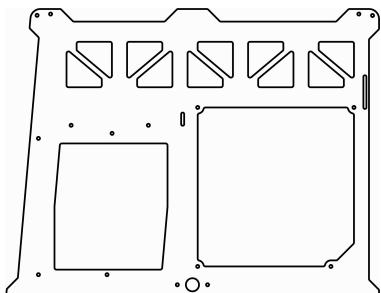


Back corner x 2

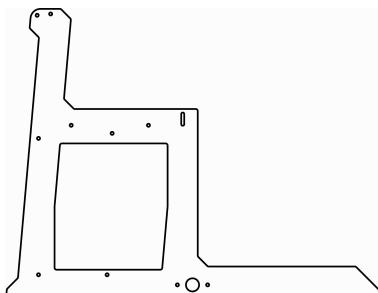


Front top

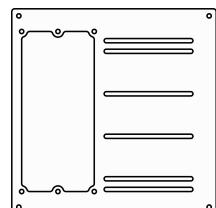
FRAME



Back



Front



PSU

3mm sheet/plate

These load bearing parts should be metal

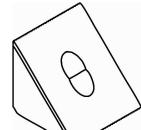
COMPONENTS



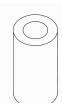
Makerbeam 145 x 2



Feet x 5



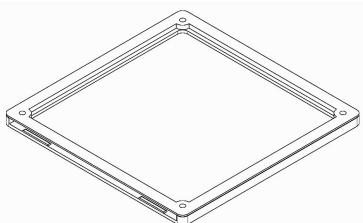
Angle Bracket x 14



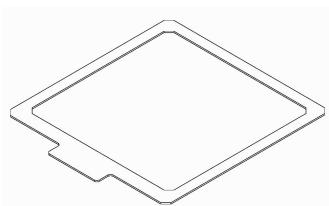
10mm Standoff x 4

Parts List

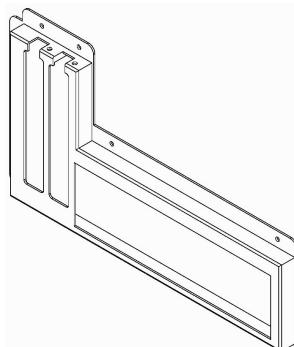
COMPONENTS



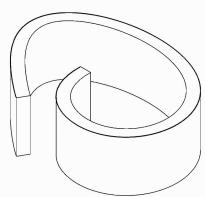
Filer Frame x 2



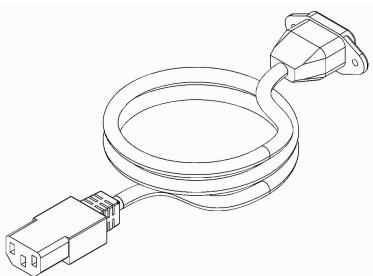
Filer x 2



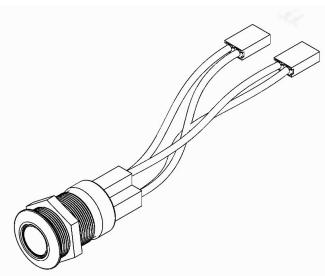
IO Panel



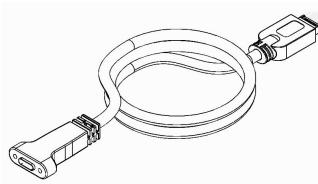
EVA Foam Tape



IEC320 C14 to C13
Extension Cord



12mm Switch
Assembly



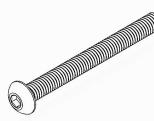
USB-C Assembly



ISO 7380
M3x6 A2 x 50



DIN 7991
M3x6 A2 x 8



ISO 7380
M3x30 A2 x 16



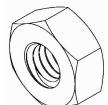
ISO 7380
M3x10 A2 x 13



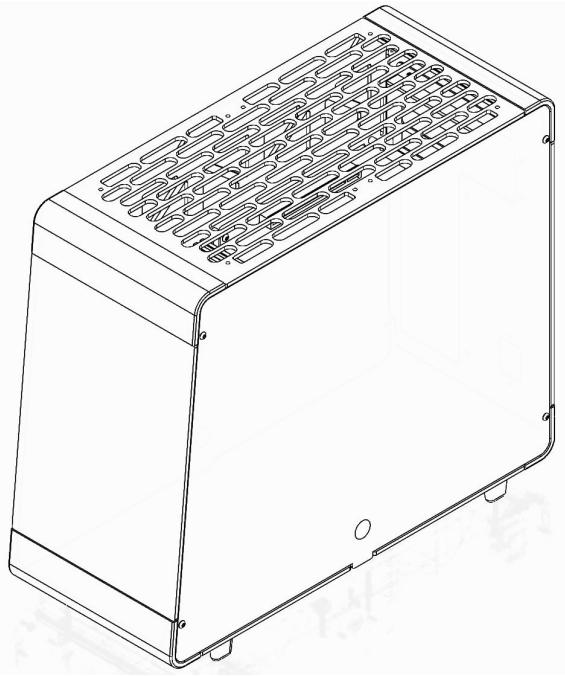
UNC #6-32x1/4"
x 4



DIN 7991
M3x10 x 2



934 M3 x 8



Date _____

Motherboard _____

GPU _____

CPU _____

Memory _____

SSD _____

PSU _____

Cooling _____

Notes

