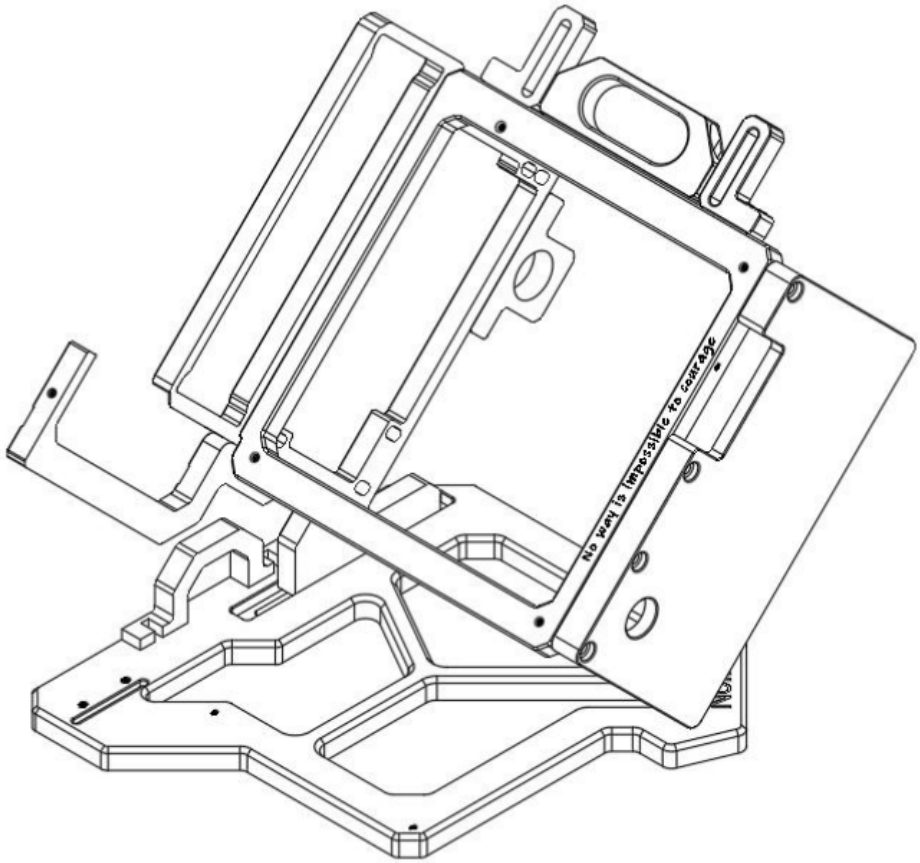
Simple Yet Sophisticated

A45 Open Case



Installation Manual

English edition

MONSTER STUDIO

1 Introduction

The A45 is a high-quality open-frame case that combines performance with an attractive design. Its comprehensive accessory pack and essential components let you assemble the case to suit your needs. Standardized screw sizes and carefully selected materials provide a sturdy, customizable DIY solution.

Whether you are building a new PC or upgrading an existing system, the A45 offers flexible configurations with a modern appearance. The accessory pack includes screws in various sizes, stainless steel standoffs, feet, a power button, a hex key and this manual to make assembly straightforward.

Thank you for choosing the Monster Studio A45 open-frame case, designed for a standardized installation experience and a distinctive DIY build.

Simple Yet Sophisticated

As future add-on accessories are developed or updated, this manual may change without notice. Revisions will appear in updated versions on the Monster Studio website. For technical support and model-specific information, please visit our website.

Website: https://www.monsterstudio.store

2 Package Contents

2.1 Accessory pack

Size	Item	Qty
M4 × 10	Socket head cap screw	6
M4 × 12	Socket head cap screw	15
M4 × 14	Socket head cap screw	10
M4 × 16	Socket head cap screw	6
M4 × 20	Socket head cap screw	6
M4 × 25	Socket head cap screw	2
M3 × 5	Phillips screw	8
M3 × 6	Stainless steel standoff	4
M3 × 10	Stainless steel standoff	2
#6-32	Countersunk screw	4
M3 × 14	Phillips screw	4
#6-32	Round-head screw	4
	Power button	1
	Hex key	1
	Case foot	4
	Nameplate	1

2.2 Hardware Reference

One A45 case component set: 13 pieces.

Illustrations are for reference. The supplied parts take precedence.

2.2.1 Screw types



M4
Socket head
cap screw



M3
Phillips screw



#6-32
Countersunk
screw



#6-32
Round-head
screw

2.2.2 Stainless steel standoffs



6 mm

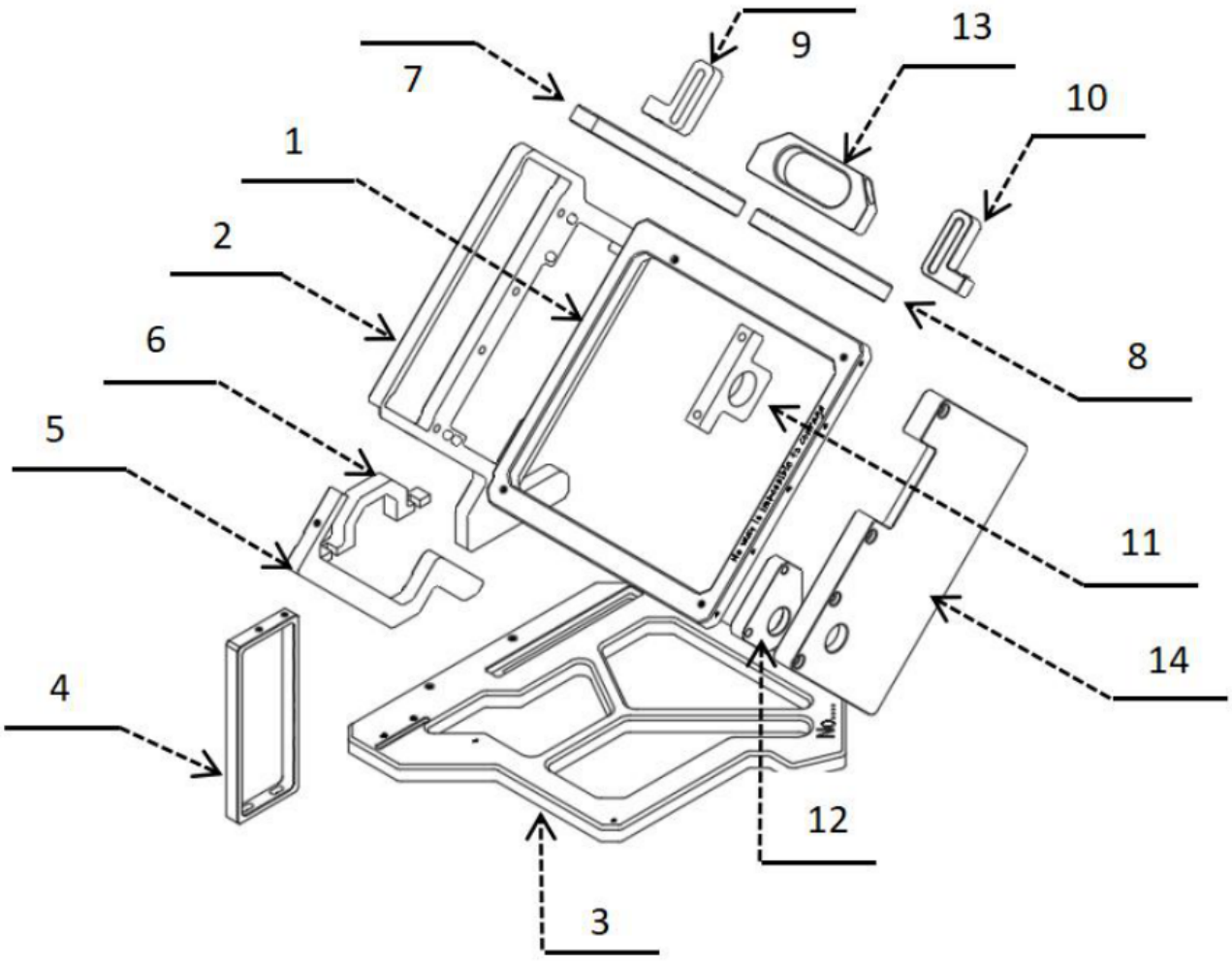


10 mm

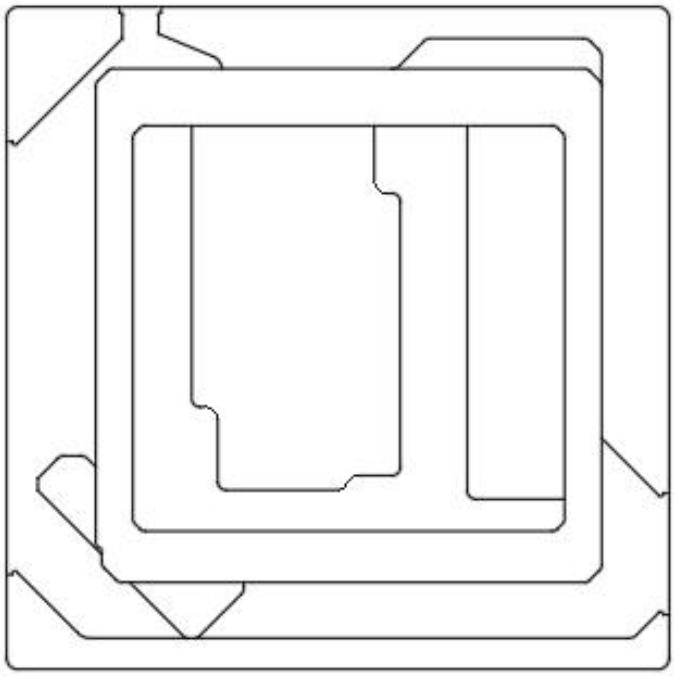
3 Exploded View

3.1 Component list

1	Motherboard frame	**8**	Radiator bracket 2
2	Side frame	**9**	Drive bracket 1
3	Base frame	**10**	Drive bracket 2
4	Vertical GPU bracket	**11**	Aviation connector bracket
5	Direct-mount GPU bracket	**12**	Power-button bracket
6	Cable-management bracket	**13**	Bulkhead bracket
7	Radiator bracket 1	**14**	PSU cover bracket (optional)

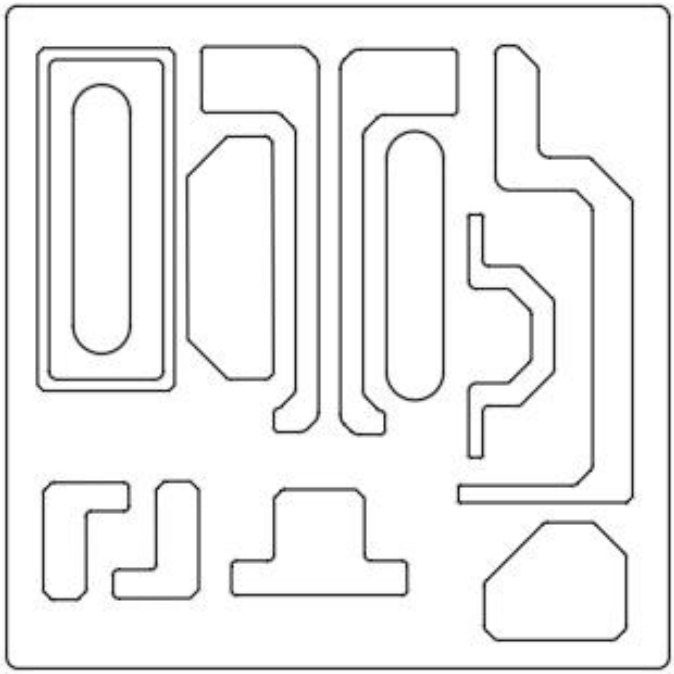


3.2 Packaging Layout



Inside to outside

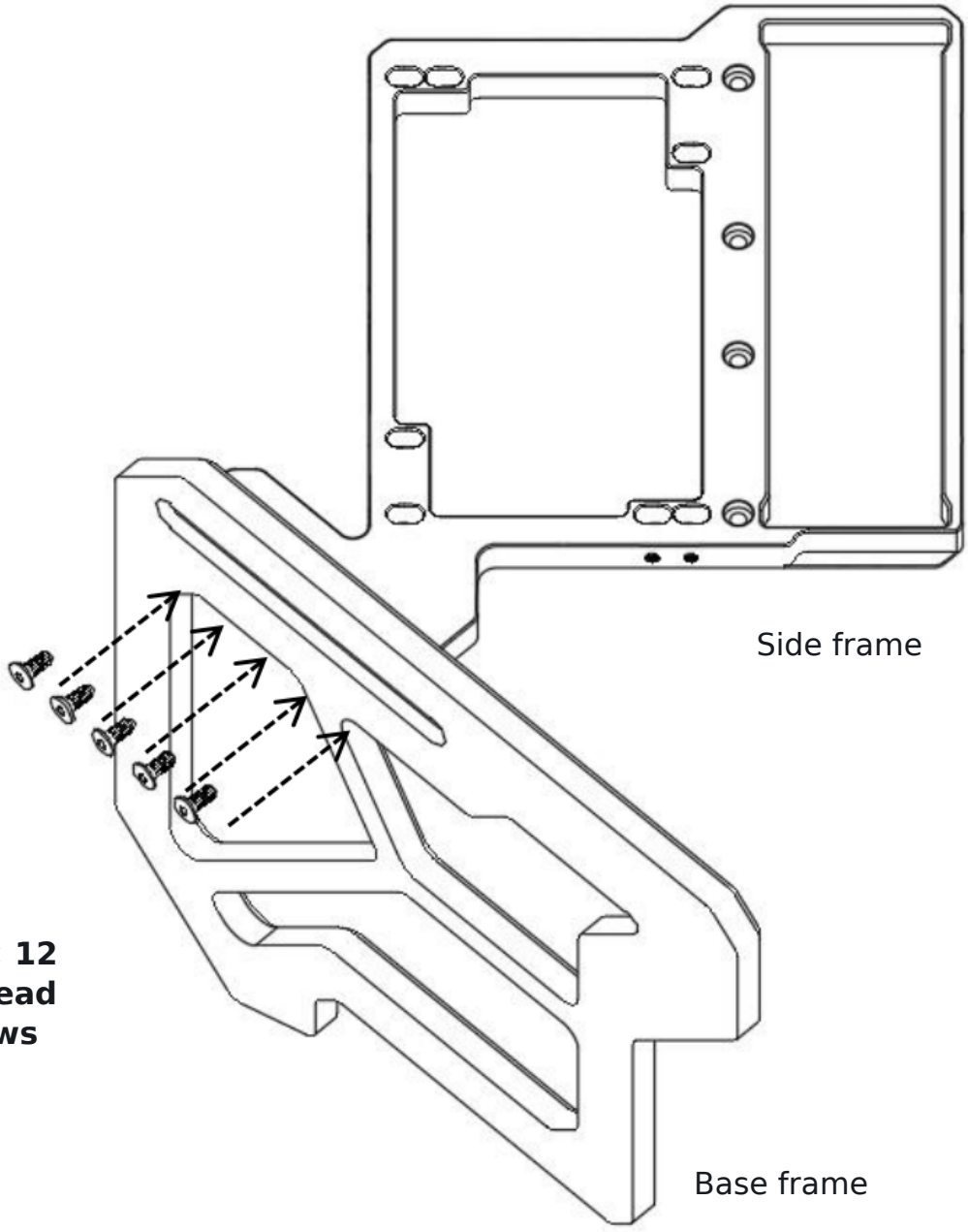
1. Motherboard frame
2. Side frame
3. Base frame



The packaging insert is CNC-machined as a single piece, with the parts arranged in stacked layers.

4 Case Assembly

4.1 Step 1 - Base and side frames

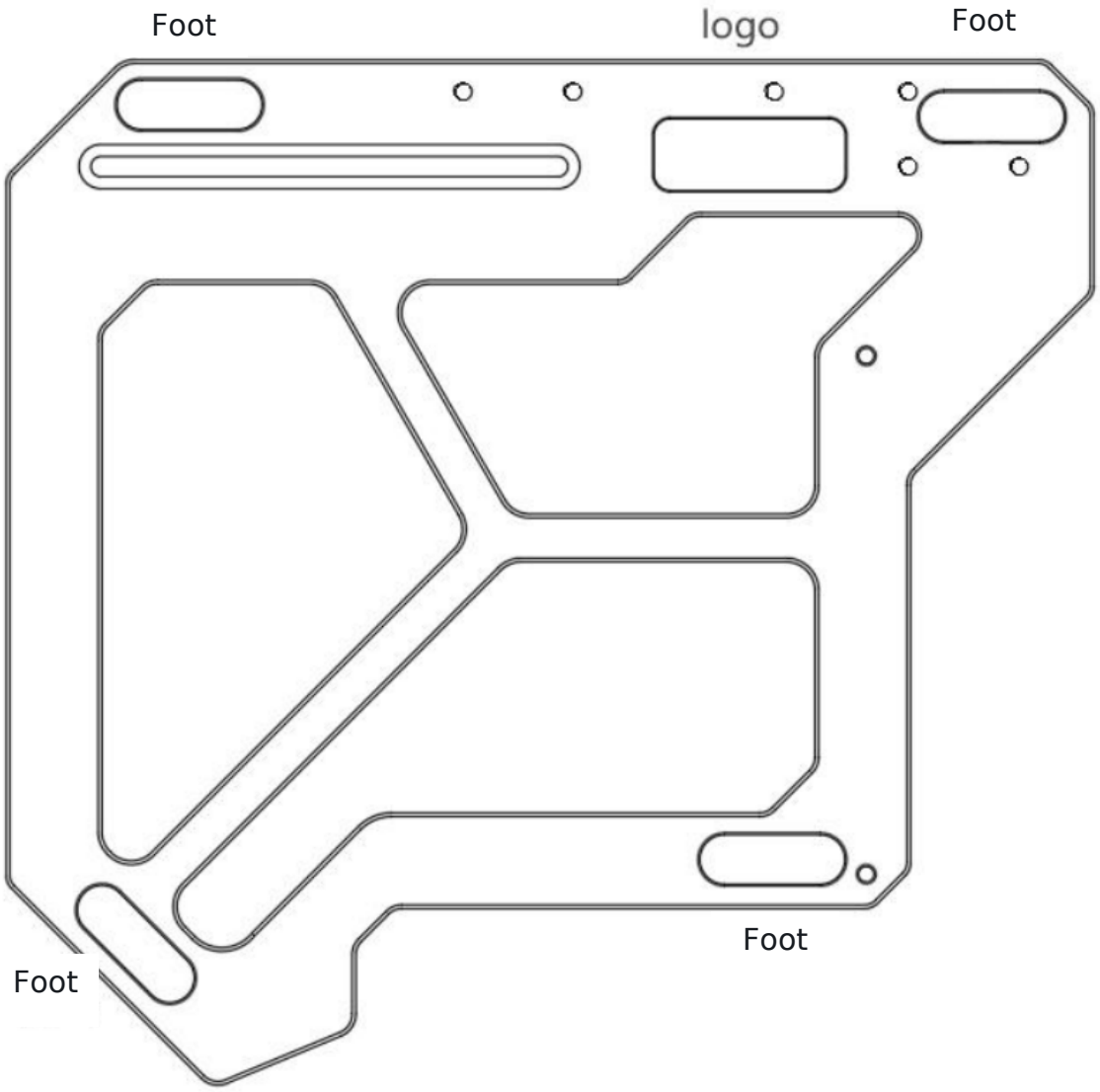


5 × M4 × 12 socket head cap screws

Join the base frame and side frame using five M4 × 12 socket head cap screws and the supplied 2.5 mm hex key. A high-strength tool is recommended to tighten the five base screws securely.

The side frame and base frame can slide relative to each other to accommodate a vertically mounted graphics card.

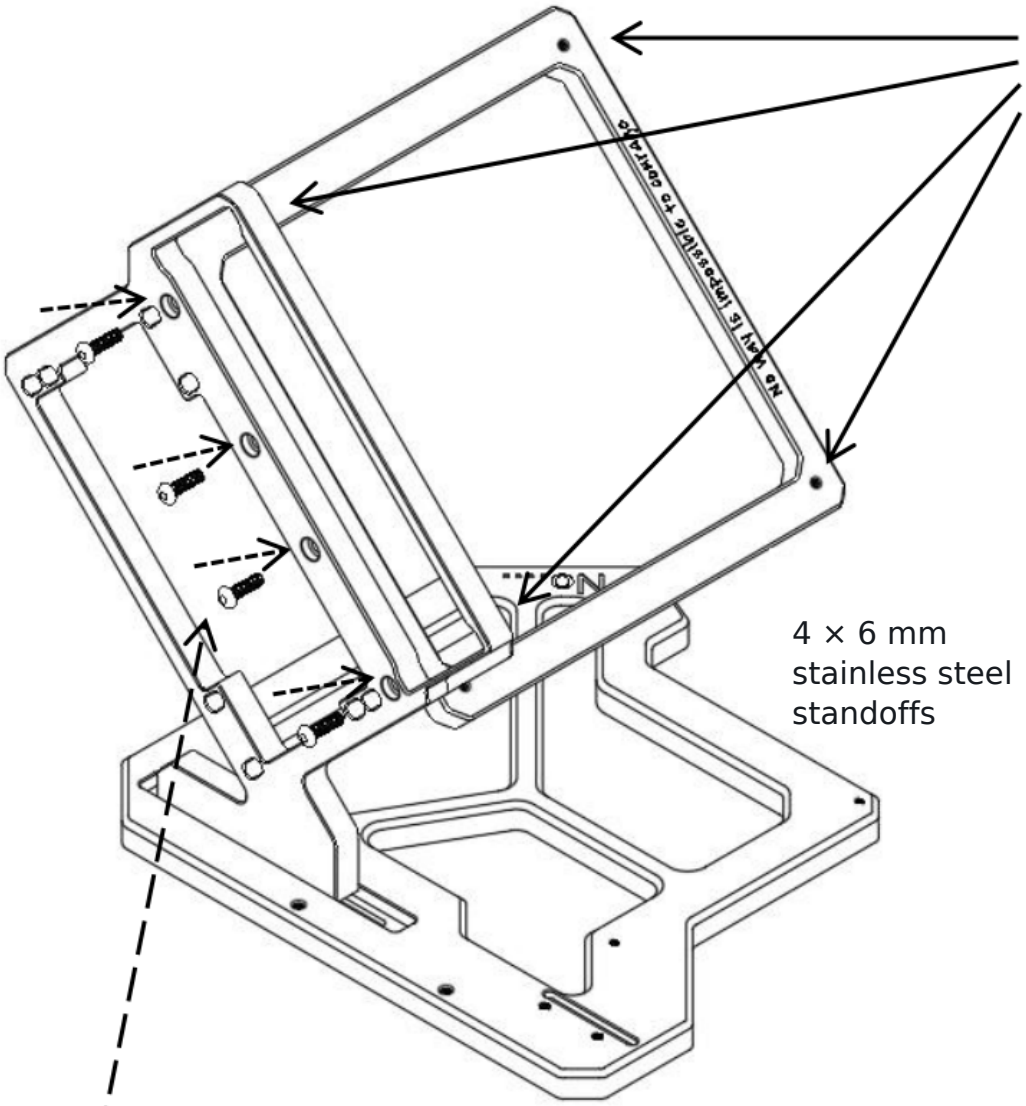
4.2 Step 2 - Attach the Feet



Take the four feet and the logo nameplate from the accessory pack. Peel off the adhesive backing and attach them to the corresponding recesses in the base frame, as shown.

4.3 Step 3 - Motherboard Frame

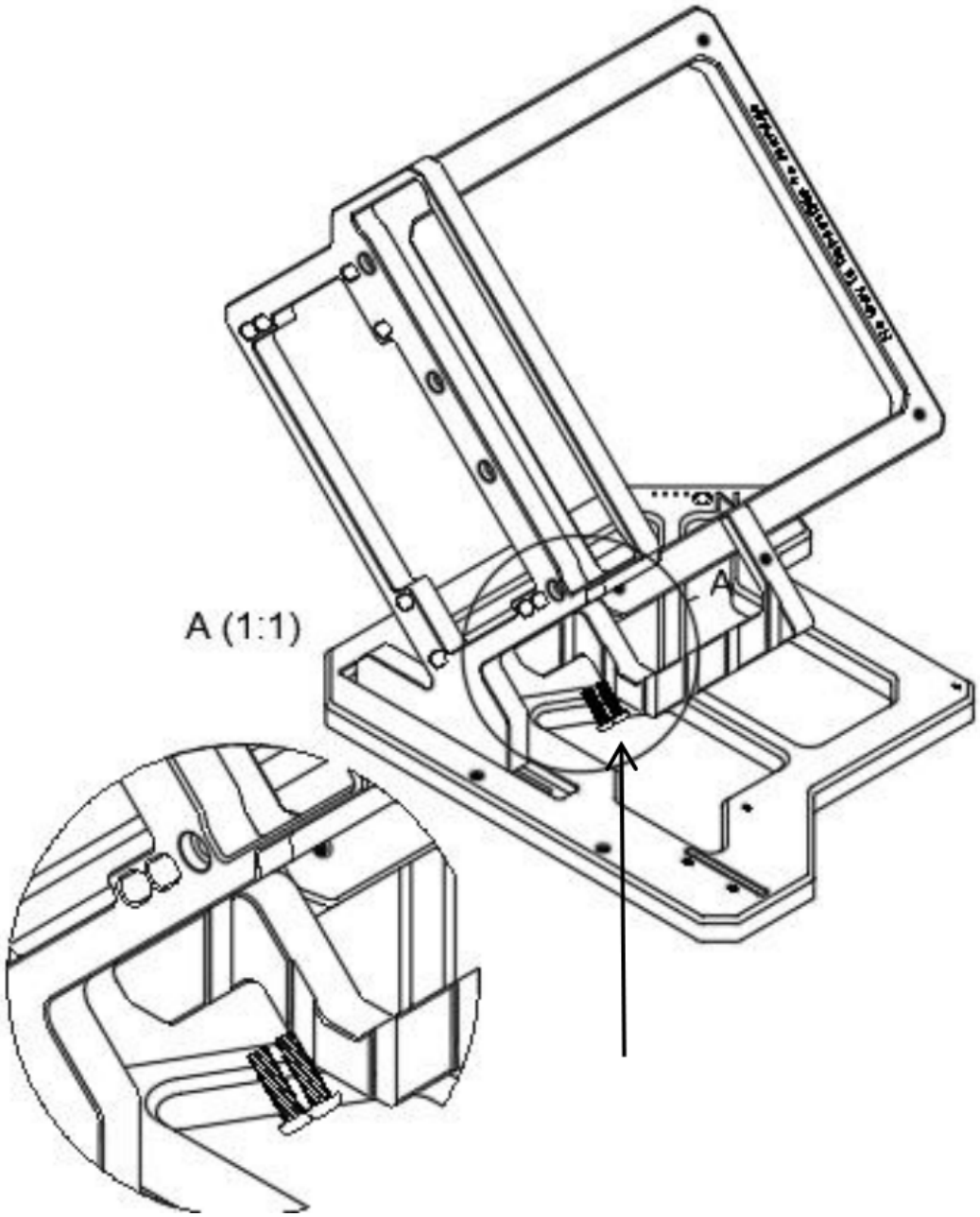
Attach the motherboard frame to the side frame and install the standoffs.





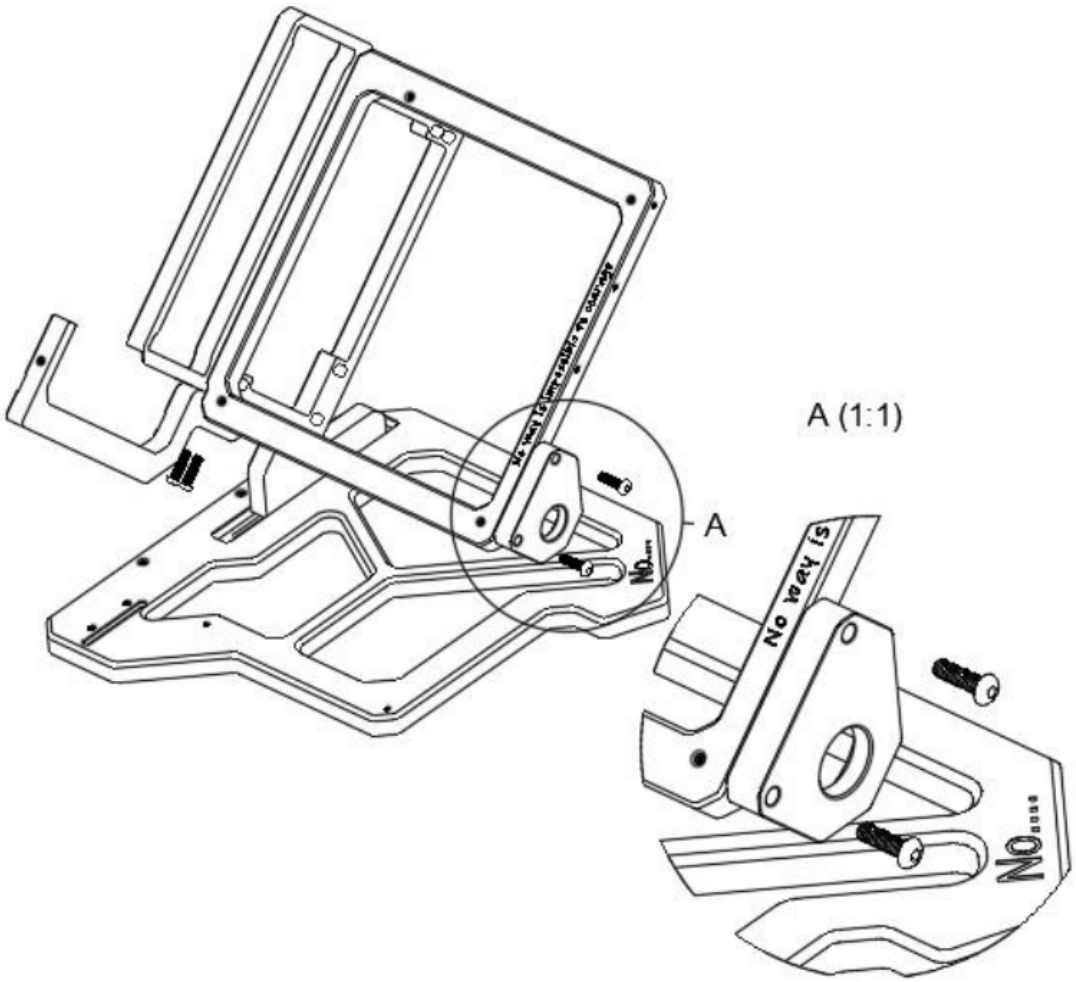
Secure the motherboard frame to the side frame with four M4 × 14 socket head cap screws at the positions shown. A high-strength tool is recommended for secure tightening.

4.4 Step 4 - GPU Bracket



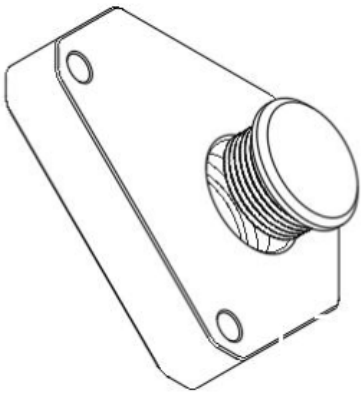
Attach the direct-mount GPU bracket to the side frame with two M4 × 20 socket head cap screws, as shown.

4.5 Step 5 - Power Button



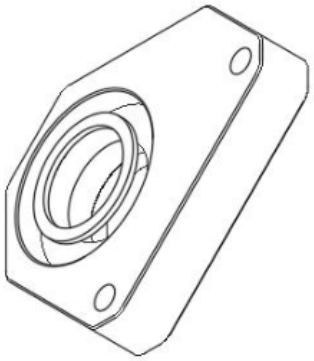
Unscrew the nut from the power button. Pass the cable through the round hole in the power-button bracket, then refit the nut to secure the button.

Fasten the completed assembly to the holes in the side of the motherboard frame using two M4 × 16 socket head cap screws.

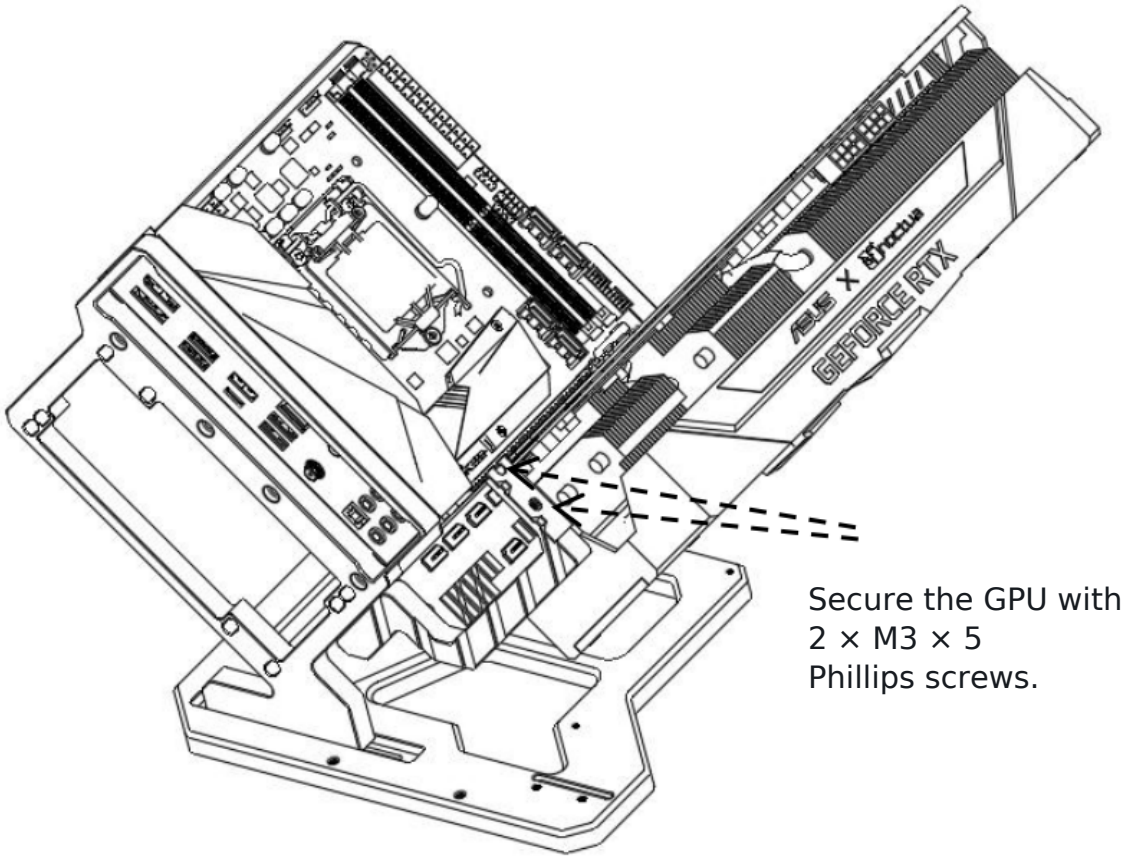


Pass the cable through the hole.

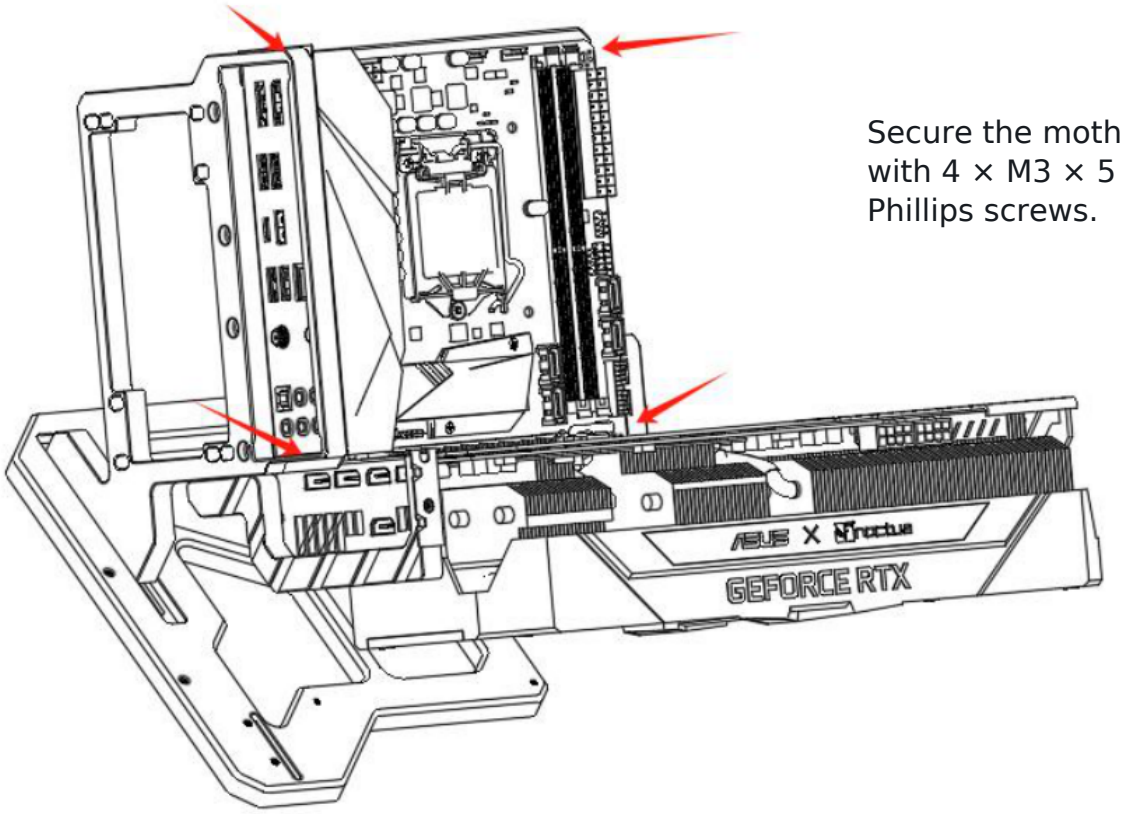
Fit and tighten the nut from the rear.



4.6 Step 6 - Install PC Hardware

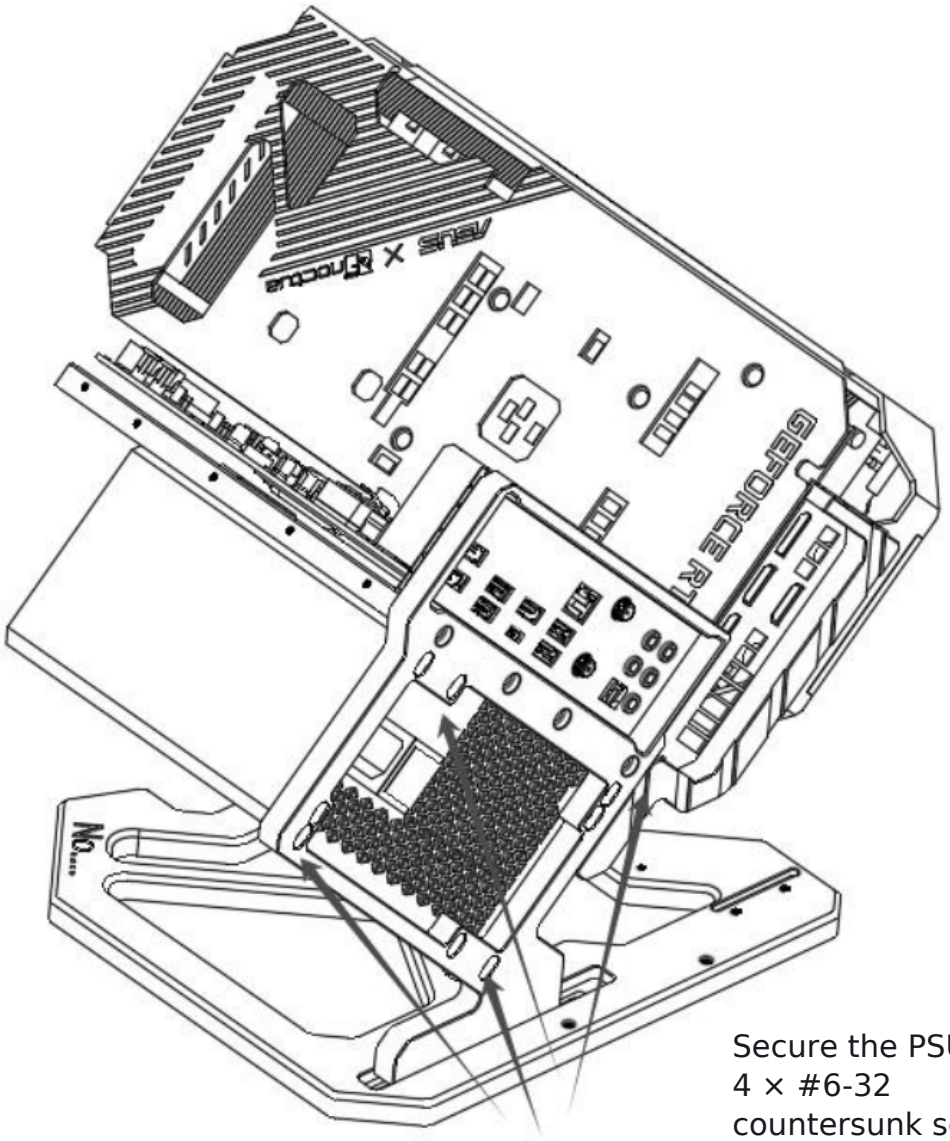


Secure the GPU with
2 × M3 × 5
Phillips screws.



Secure the motherboard
with 4 × M3 × 5
Phillips screws.

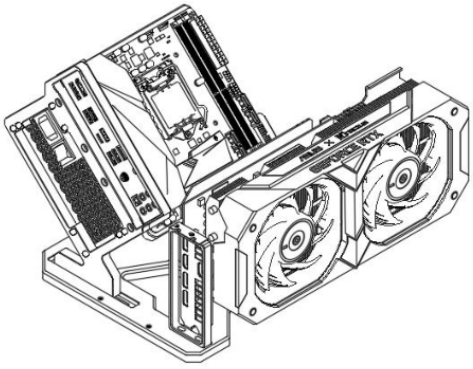
Install the Power Supply



Secure the PSU with 4 × #6-32 countersunk screws.

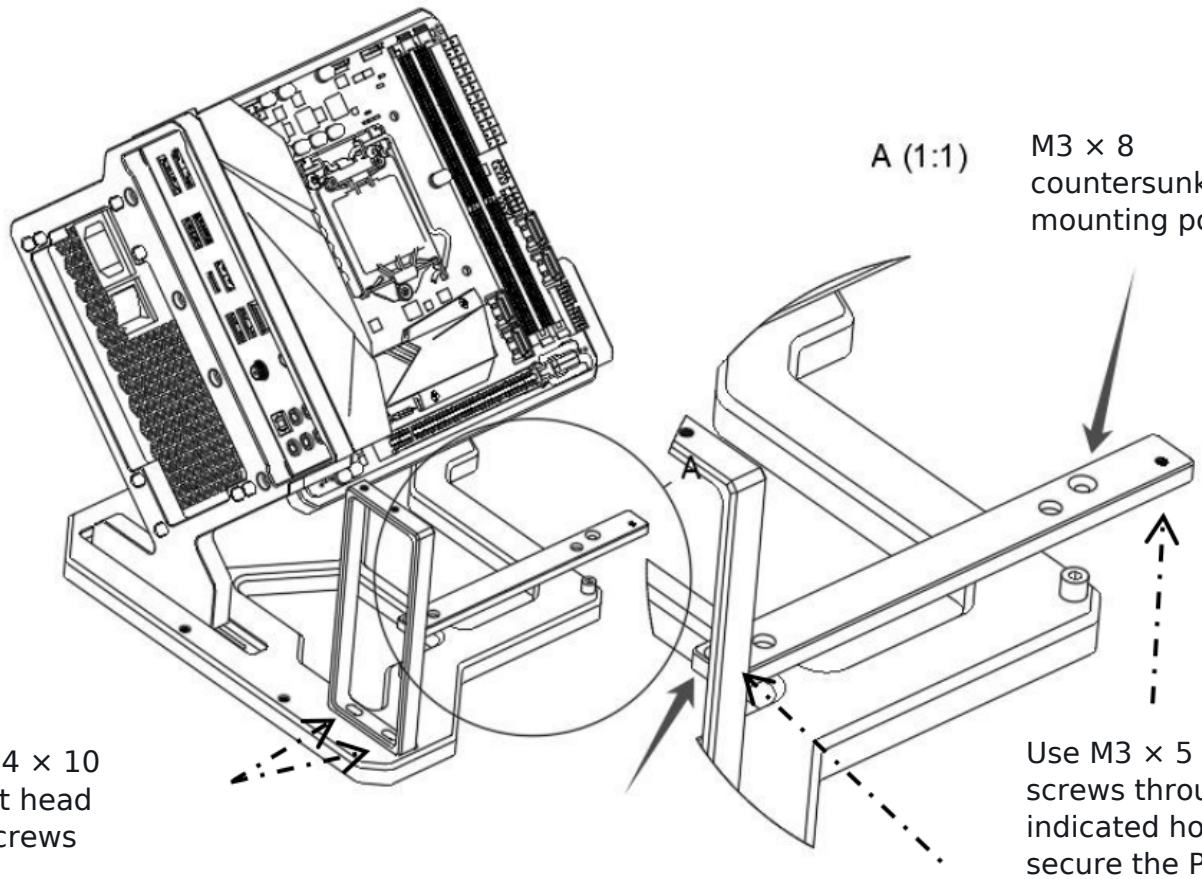
4.7 Step 7 - Vertical GPU Installation

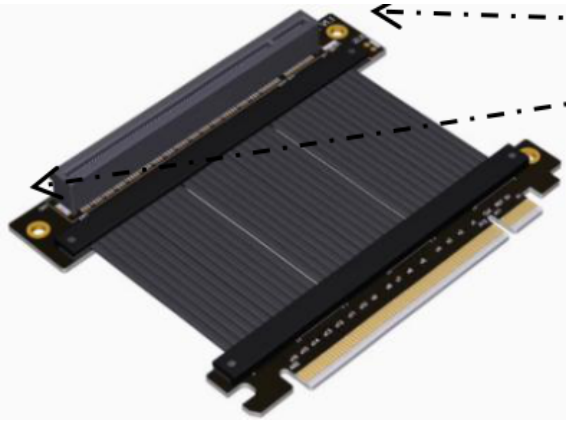
PCIe riser sold separately.



Use a PCIe riser with a 90° vertical connector, mounted on an acrylic adapter plate.

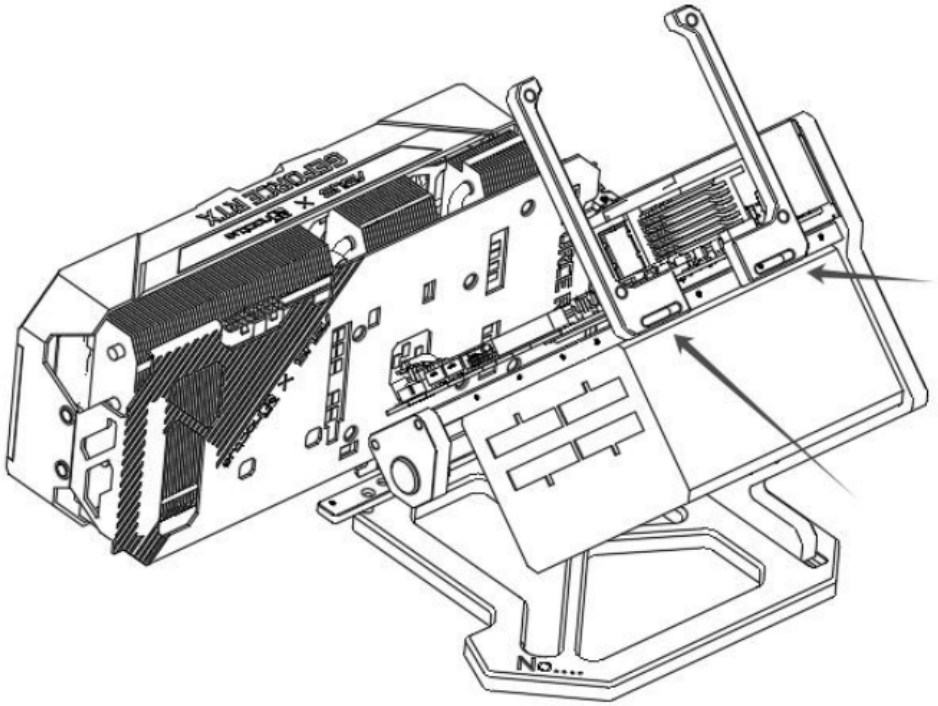
Vertical GPU Installation Continued





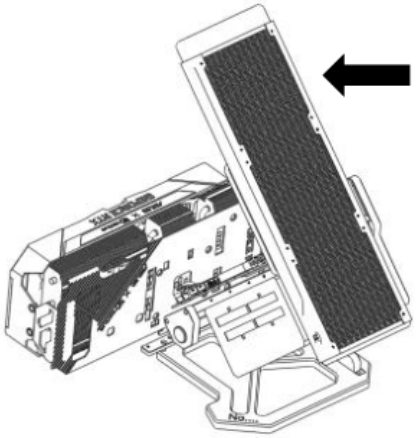
1. Install two M3, 5 mm stainless steel standoffs on the base frame as shown.
2. Secure the acrylic adapter plate to the standoffs with two M3 × 8 countersunk screws.
3. Secure the PCIe riser to the acrylic plate with two M3 × 5 Phillips screws.
4. Attach the vertical GPU bracket to the base frame with two M4 × 10 socket head cap screws. Insert the GPU into the PCIe slot, then secure its slot bracket to the vertical GPU bracket with two M3 × 5 screws, as with direct mounting. The mounting slots allow fore-and-aft adjustment.

4.8 Step 8 - Radiator Installation



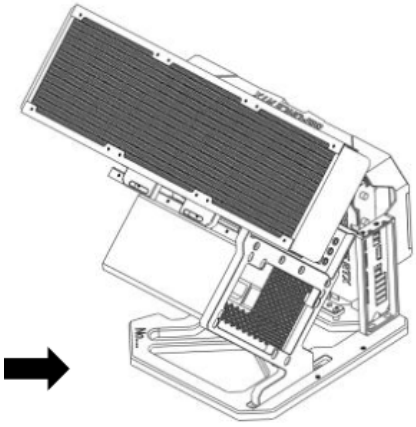
1. For 120 mm-format mounting, attach the radiator brackets to the upper side holes of the motherboard frame. Adjust their position either by choosing different frame holes or by sliding the brackets. Install one bracket first, then position the other to match the 120 mm mounting-hole pattern. Tighten securely after alignment. Use two M4 × 16 or M4 × 14 socket head cap screws per bracket.

2. For a 120 mm-format radiator (120, 240 or 360 mm), secure it using the appropriate supplied screw type: M3, M4 or #6-32. The radiator can also be mounted horizontally.



Vertical mounting
Use washers to raise the radiator.

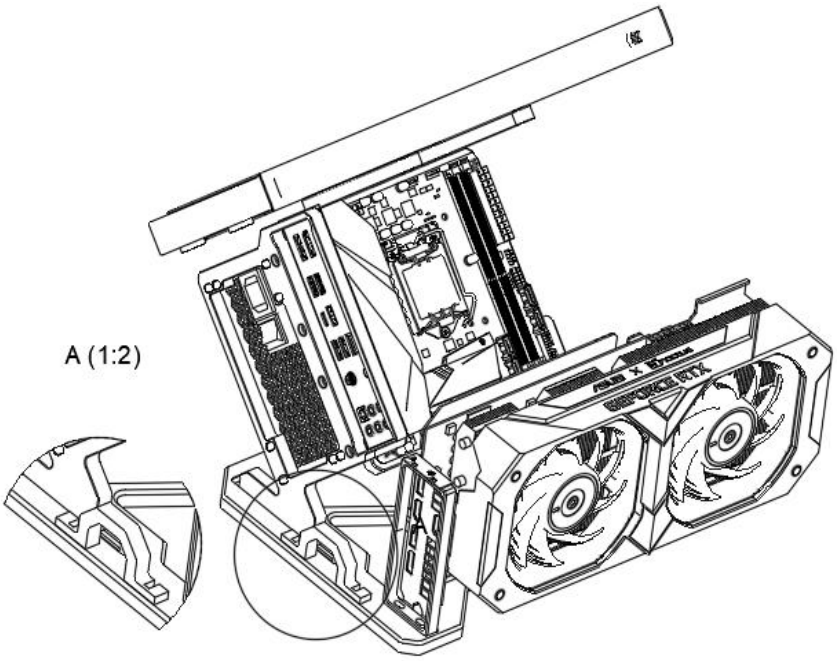
Horizontal mounting
Fasten directly
with screws.



4.9 Step 9 - Other Accessories

Cable-management bracket

Attach the bracket at the position shown using two M4 × 10 socket head cap screws. Route the I/O cables together through this bracket to keep them in place.

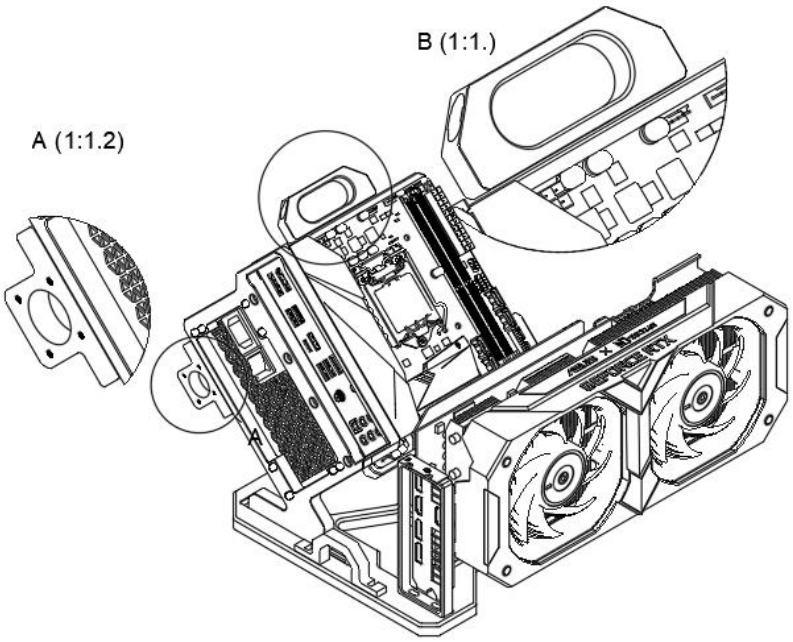


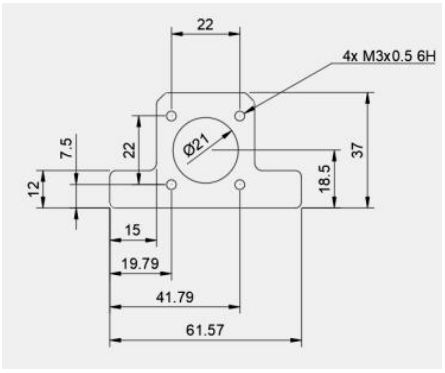
Bulkhead and aviation connector brackets

For custom-loop or external liquid cooling.

Secure the aviation connector bracket with two M4 × 14 socket head cap screws. Secure the bulkhead bracket with two M4 × 25 socket head cap screws.

In an air-cooled build, the bulkhead bracket can also serve as a handle.

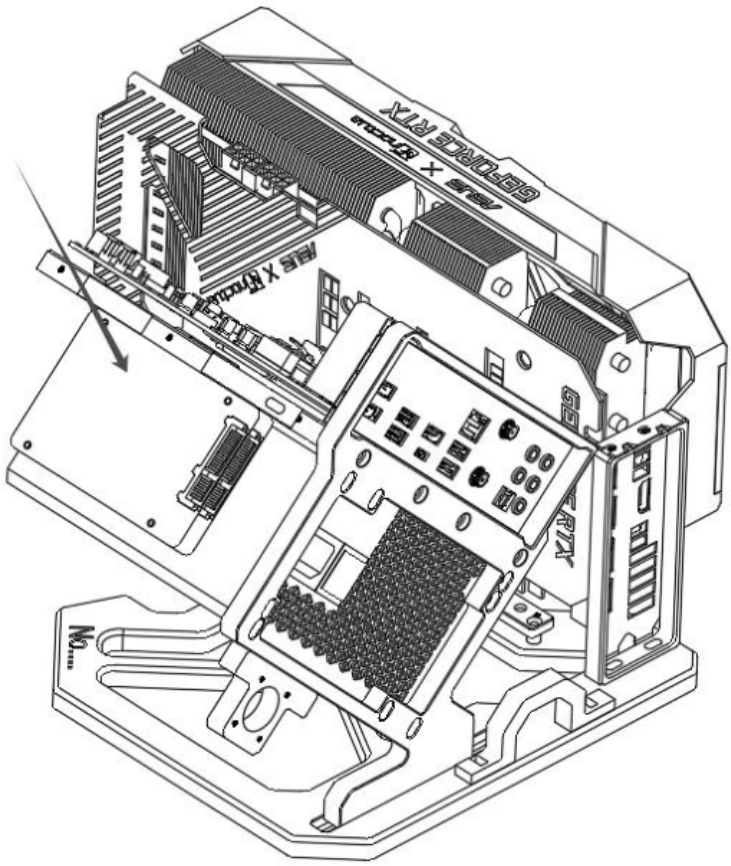




Aviation connector bracket dimensions (mm; threaded holes: 4 × M3 × 0.5 6H)

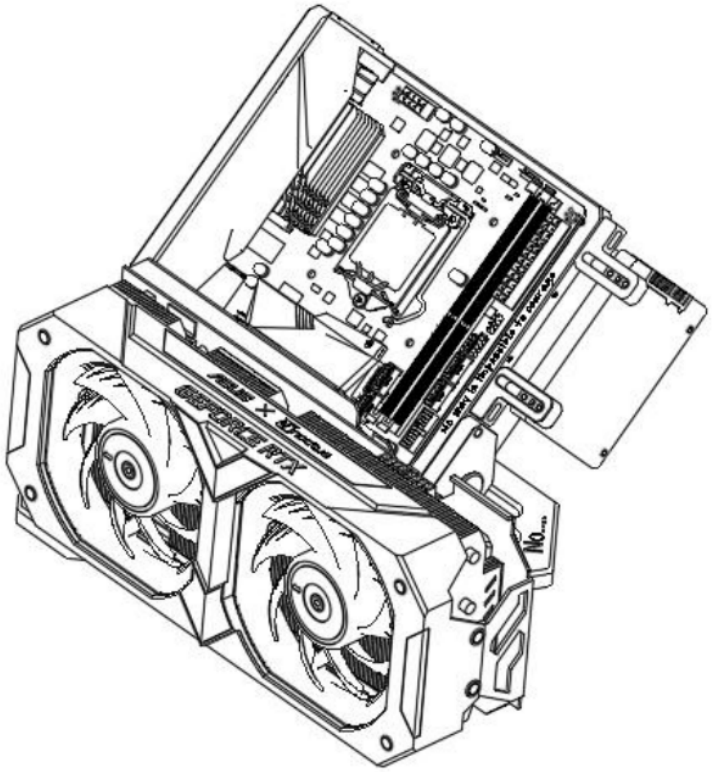
Drive Bracket Installation

For air-cooled builds, mount the drive brackets at the top or on the right side of the motherboard frame.



Top mounting

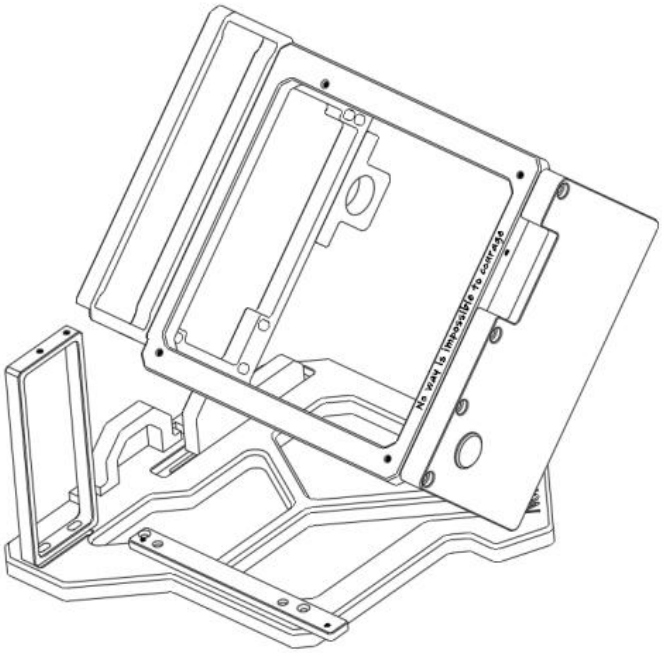
Supports three 2.5-inch drives or two 3.5-inch drives.



Right-side mounting

Optional PSU Cover

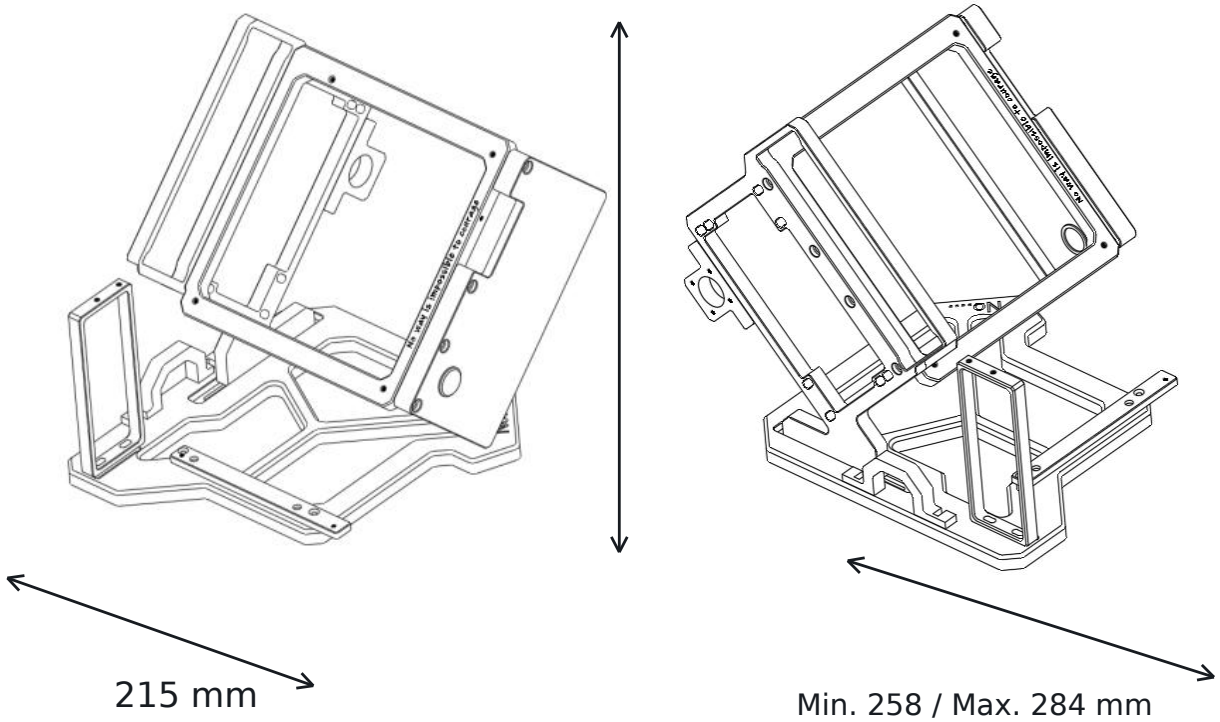
Maximum PSU length with the cover: 160 mm.



Install the optional PSU cover at the position shown. Secure it with four M4 × 16 round-head screws.

5 Overall Dimensions

Height: 253 mm

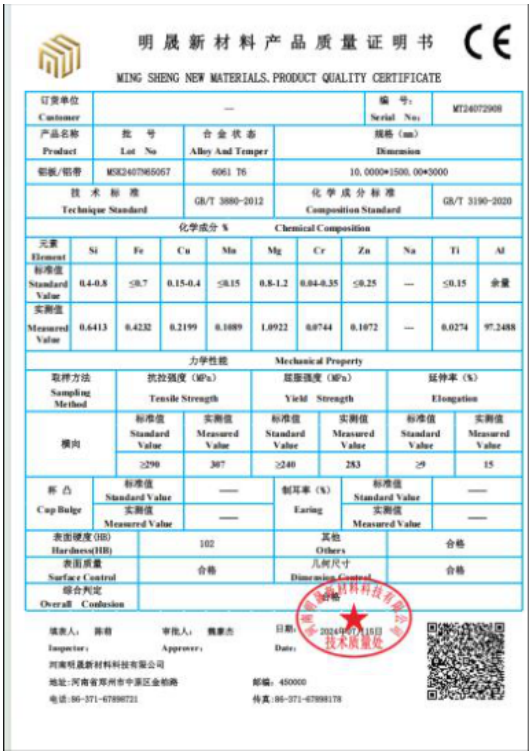


6 Materials and Finish

6.1 All case components are CNC-machined from 10 mm 6061-T6 aluminum alloy. The material certificate is shown at right.

6.2 Available colors: Black and Titanium Gray.

6.3 Surface finish: 120-grit sandblasting followed by anodizing.



明晟新材料产品质量证明书

MING SHENG NEW MATERIALS. PRODUCT QUALITY CERTIFICATE

订货单位 Customer	—			编 号: Serial No:	MT24072908
产品名称 Product	批 号 Lot No	合金状态 Alloy And Temper		规格 (mm) Dimension	
铝板/铝带	MSK2407065057	6061 T6		10.0000*1500.00*3000	
技术标准 Technique Standard		GB/T 3880-2012	化学成分标准 Composition Standard		GB/T 3190-2020

化学成分 % Chemical Composition

元素 Element	Si	Fe	Cu	Mn	Mg	Cr	Zn	Na	Ti	Al
标准值 Standard Value	0.4-0.8	≤0.7	0.15-0.4	≤0.15	0.8-1.2	0.04-0.35	≤0.25	—	≤0.15	余量
实测值 Measured Value	0.6413	0.4232	0.2199	0.1089	1.0922	0.0744	0.1072	—	0.0274	97.2488

力学性能 Mechanical Property

取样方法 Sampling Method	抗拉强度 (MPa) Tensile Strength		屈服强度 (MPa) Yield Strength		延伸率 (%) Elongation	
横向	标准值 Standard Value	实测值 Measured Value	标准值 Standard Value	实测值 Measured Value	标准值 Standard Value	实测值 Measured Value
	≥290	307	≥240	283	≥9	15

杯凸 Cup Bulge	标准值 Standard Value	—	制耳率 (%) Earing	标准值 Standard Value	—
	实测值 Measured Value	—		实测值 Measured Value	—
表面硬度 (HB) Hardness(HB)	102		其他 Others	合格	
表面质量 Surface Control	合格		几何尺寸 Dimension Control	合格	
综合判定 Overall Conlusion	合格				

检验人: 陈萌 审批人: 魏豪杰 日期: 2024年07月10日

Inspector: Approver: Date: 技术质量处

河南明晟新材料科技有限公司

地址:河南省郑州市中原区金航路 邮编: 450000

电话:86-371-67898721 传真:86-371-67898178

Original certificate; English on p. 20

7 Support and Service

7.1 Please contact customer service with any questions.

8 Quality Notes

We aim to offer the best possible value and product quality.

Color: Components from the same production batch should have minimal color variation. Some color variation between different batches is normal and expected.

Surface: Minor surface imperfections are normal and expected, provided they do not affect function. The standards for exterior and interior surfaces differ:

Exterior scratches, dents or defects larger than 0.5 × 1 cm are covered by the warranty.
Interior scratches, dents or defects larger than 2 × 1 cm are covered by the warranty.

Note: Interior surfaces will inevitably show some wear from shipping, packing and assembly.

The product received takes precedence. Check the official website for the latest updates.

Appendix Material Certificate

English translation of the certificate reproduced on page 19. Small or obscured fields in the supplied scan are marked as unreadable.

MING SHENG NEW MATERIALS
PRODUCT QUALITY CERTIFICATE

Customer: not specified | Serial no.: MT24072908
Product: Aluminum plate / strip | Alloy and temper: 6061 T6
Lot no.: not reliably legible
Dimensions (mm): 10.0000 × 1500.00 × 3000
Technical standard: GB/T 3880-2012
Chemical-composition standard: GB/T 3190-2020

Chemical composition (%)

Element	Specified	Measured
Si	0.4-0.8	0.6413
Fe	≤0.7	0.4232
Cu	0.15-0.4	0.2199
Mn	≤0.15	0.1089
Mg	0.8-1.2	1.0922
Cr	0.04-0.35	0.0744
Zn	≤0.25	0.1672
Na	-	-
Ti	≤0.15	0.0274
Al	Balance	97.2488

Mechanical properties

Sampling: Transverse

Tensile strength (MPa)
Specified ≥290; measured 307

Yield strength (MPa)
Specified ≥240; measured 283

Elongation (%)
Specified ≥9; measured 15

Cupping: -; Earing (%): -
Surface hardness (HB): 102

Other requirements: Pass | Surface quality: Pass
Geometric dimensions: Pass | Overall conclusion: Pass
Prepared by / reviewed by: names not reliably legible
Date: partially obscured and not reliably legible

Henan Ming Sheng New Materials Technology Co., Ltd.
Address: Zhongyuan District, Zhengzhou, Henan Province (street unreadable)
Postal code: 450000 | Tel: 86-371-67898721 | Fax: 86-371-67898178
Scan includes a CE mark, QR code and company stamp. Readable stamp text: Technical Quality Department; circular text is not fully legible.