

# VELKA 3

Rev 2.0-2.1

## USER MANUAL

Specification.....	2
Hardware compatibility.....	3
Out-of-Case Build.....	4
Summary of assembly steps.....	5
Disassembly.....	6
CPU, memory, M.2 drive, and motherboard installation .....	7
Graphics card.....	8
Installation into the main body .....	9
Power supply.....	11
2.5" drive (dedicated mount) .....	12
Front struts.....	13
Power button .....	15
Side panels.....	16
Front panel.....	18

## SPECIFICATION

Dimensions (L x W x H)	189 x 96 x 218 mm
Weight	1.5 kg With included power supply: 2.5 kg
Volume (liters)	3.9 L external, 3.7 L internal
Materials and finish	5 mm anodized and sandblasted aluminum front panel  1.2 mm powder-coated galvanized steel and stainless steel body  1.0 mm powder-coated galvanized steel side panels
I/O	Front: N/A  Top: N/A  Rear: Motherboard, graphics
Security	Kensington Lock Slot
PCIe riser	PCIe 3.0 x16 / PCIe 4.0 x16

## HARDWARE COMPATIBILITY

Motherboard	Mini ITX 170 x 170 mm
Power supply	ENP-7660B (optional) Replaceable with Flex ATX (150 mm)
CPU cooler	37 mm
Graphics card (L x W x H)	Maximum clearance, including cables. Cables require 16 mm if not recessed into the board.  175 x 43 x 148 mm  178 x 40 x 148 mm
Memory	42 mm
Storage	1x 2.5" HDD or SSD (7.0 mm thick)
Case fans	N/A

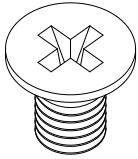
## OUT-OF-CASE BUILD

It is strongly recommended to test all of your components outside of the case first. This may help save time by preventing back-tracking later in the assembly process.

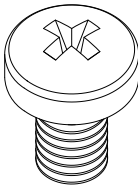
1. Assemble the computer with the graphics card plugged directly into the motherboard, test for functionality
2. If using the PCIe gen 3 riser, set PCIe x16 link speed to gen 3 in BIOS, test for functionality
3. Repeat step (1) with the PCIe riser. Be gentle with these cables as they are not designed for external use.

## SUMMARY OF ASSEMBLY STEPS

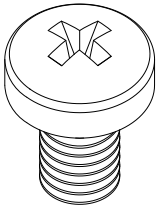
1. Install your CPU, CPU cooler, memory, and M.2 drive onto the motherboard, attach it to the tray
2. Insert riser into the PCIe slot, flip over the tray, install graphics card and screw in riser
3. Install IO shield and install that subassembly back into the main body of the case with the top PSU holder attached
4. Install power supply, 2.5" drive, attach all cables
5. Install front struts, install power button into the front panel and plug it in without installing the front panel, install side panels, then the front panel



3x Countersunk 5 mm M3 screws



6x Round head 4 mm M3 screws

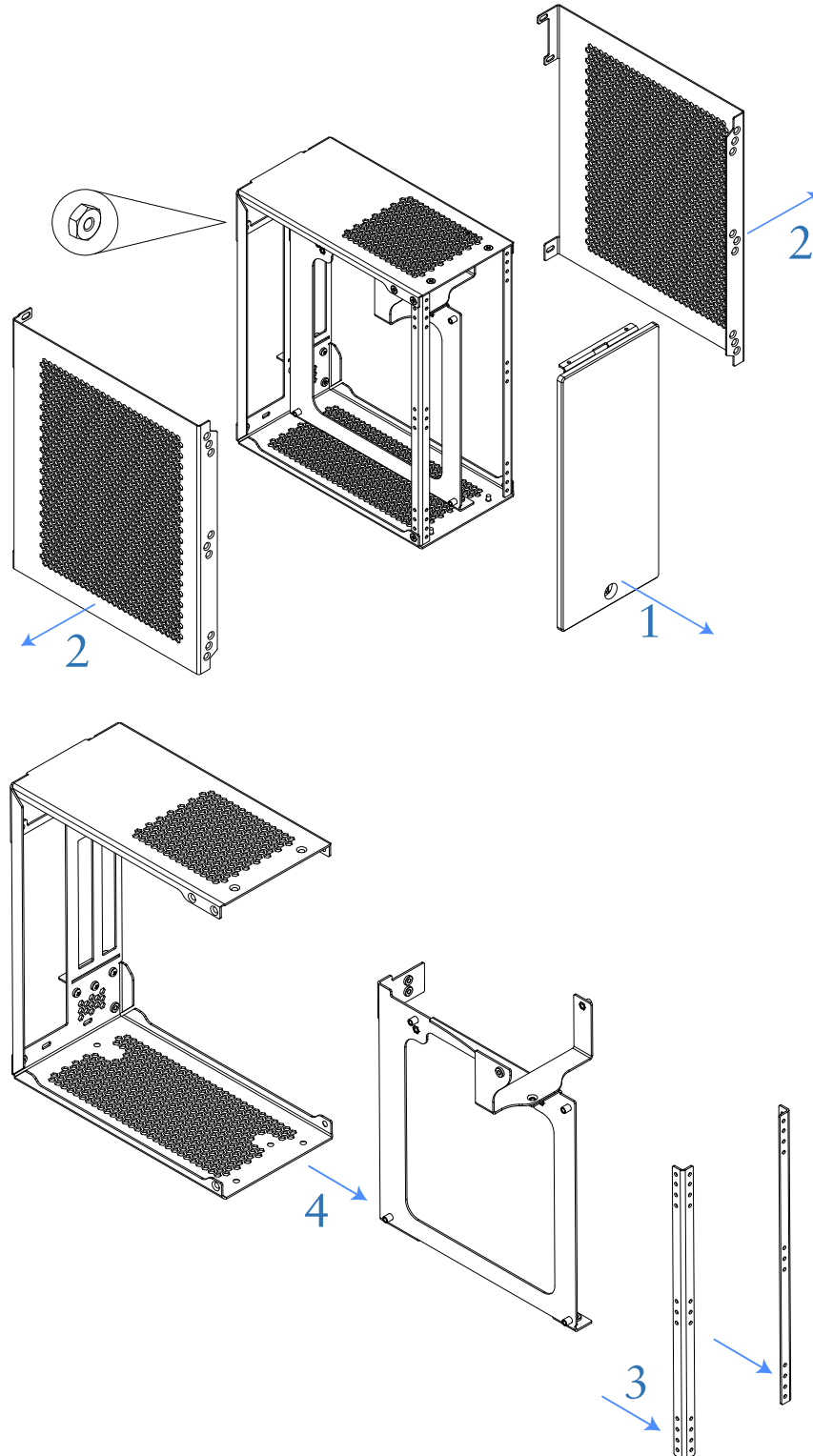


4x Round head 6 mm 6-32 screws

## DISASSEMBLY

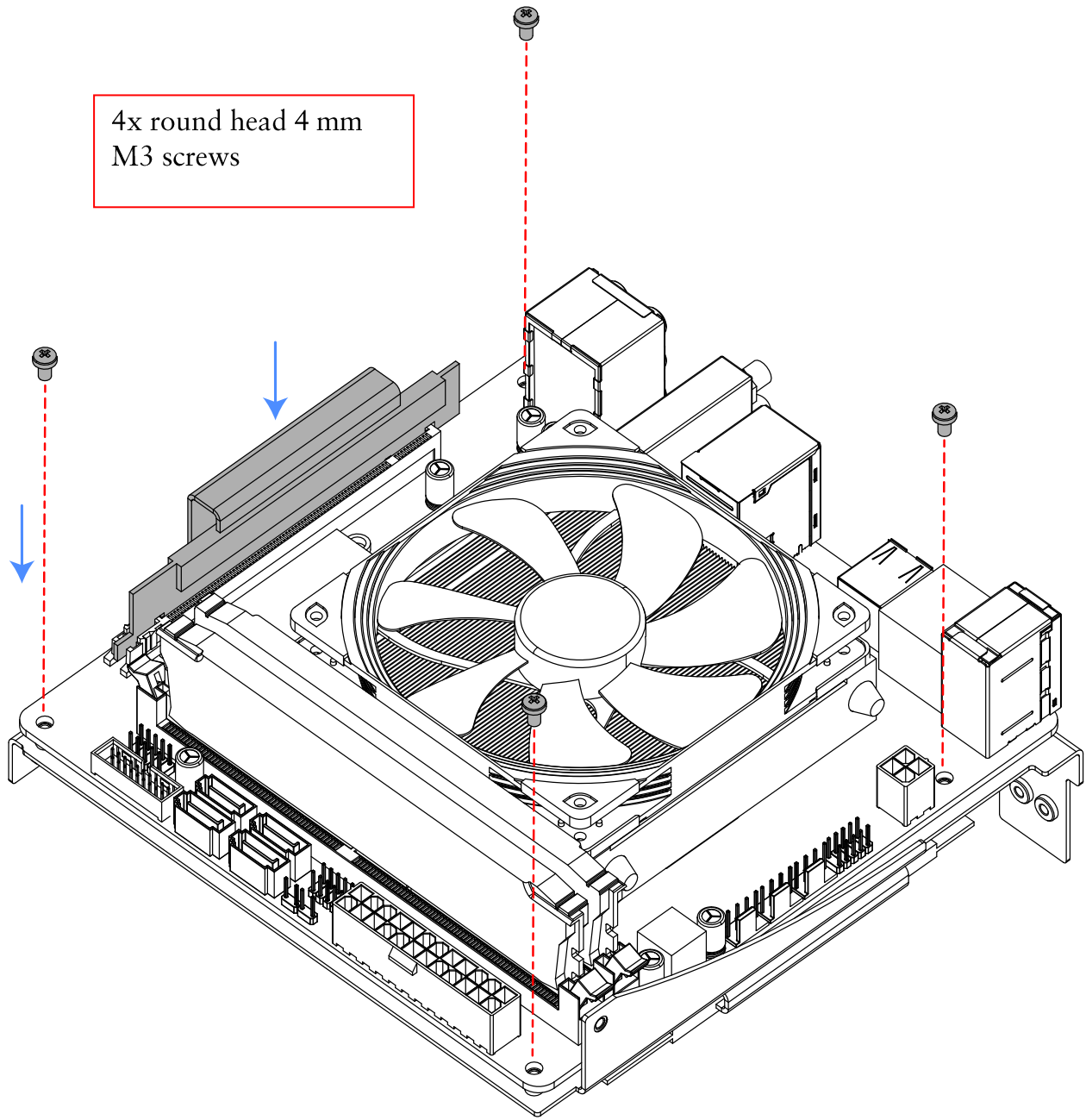
It is recommended to work with the case on a soft, clean surface.

1. 2 screws on top-front and 2 screws on bottom-front to remove front panel
2. 6 screws in the front and 5 screws in the rear to remove side panels. **Note: the 3 upper screws in the rear are secured by separate nuts. Hold the nut to remove each screw.**
3. 2 screws on the left and 2 screws on the right to remove struts
4. 2 screws in the back and 2 screws on the bottom to remove motherboard tray



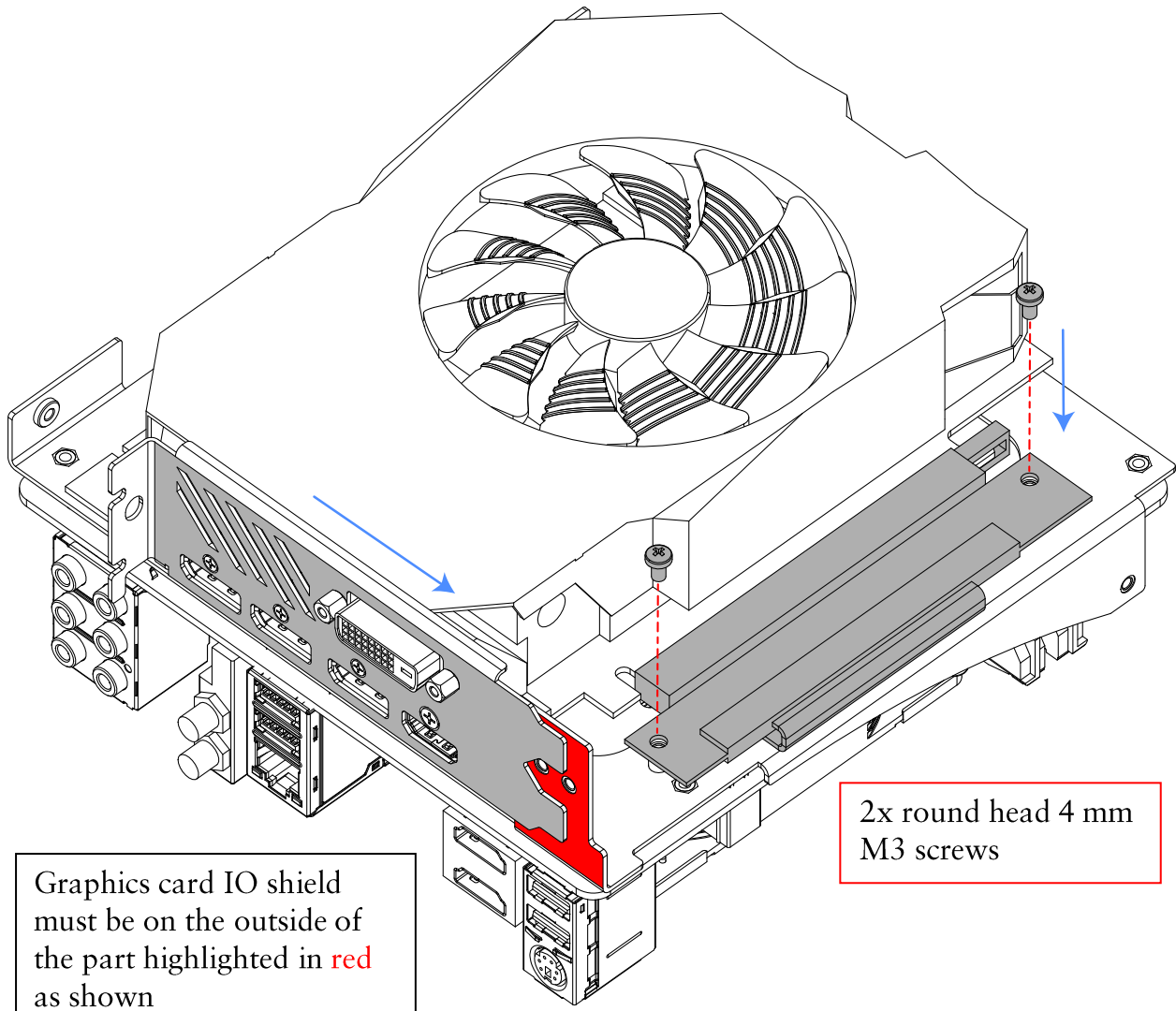
## CPU, MEMORY, M.2 DRIVE, AND MOTHERBOARD INSTALLATION

Install the CPU, cooler, memory, and M.2 drive onto the motherboard. Attach the motherboard to the tray and plug in the PCIe riser.



## GRAPHICS CARD

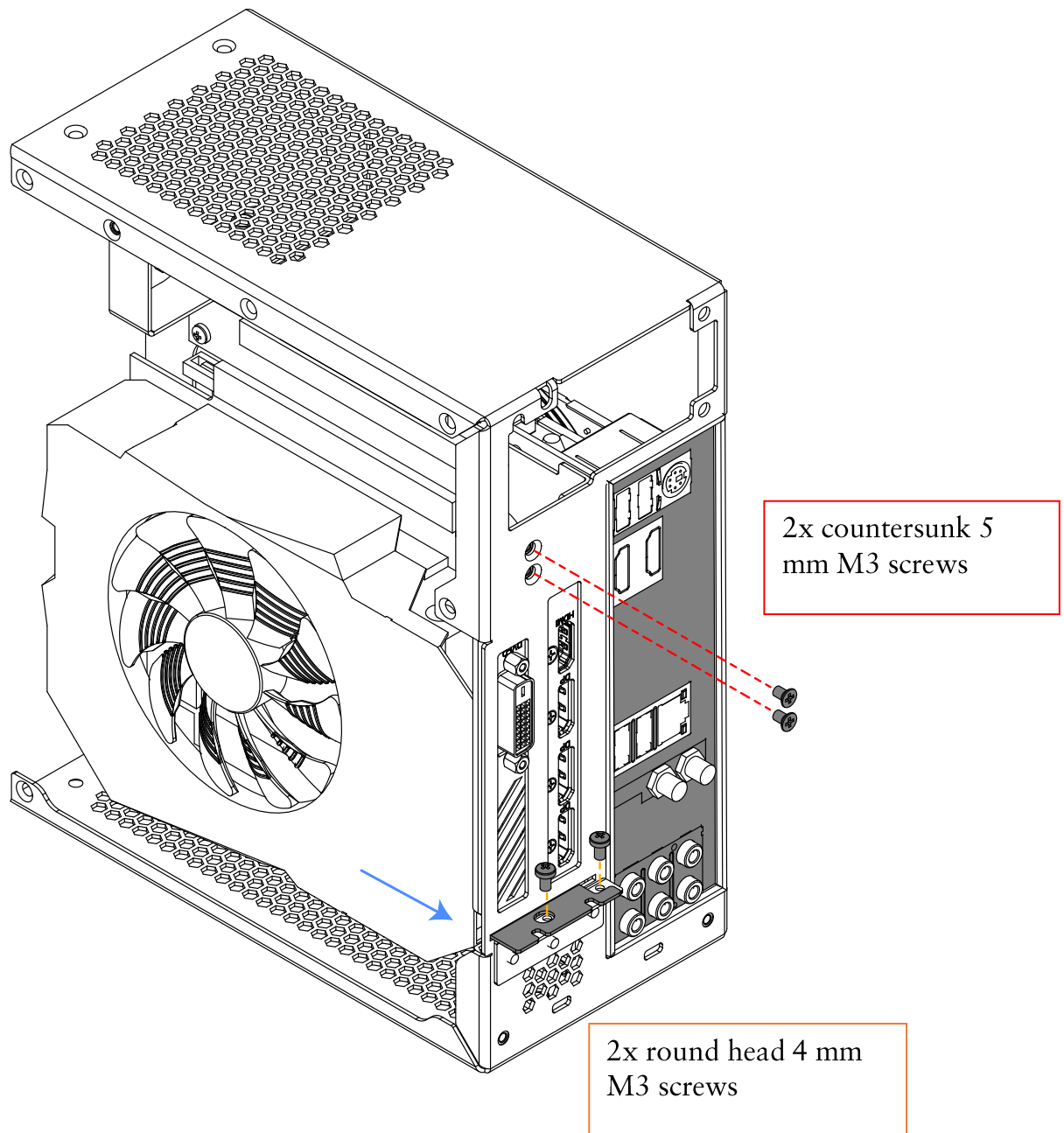
Screw in the PCIe riser on the opposite side and connect the graphics card.



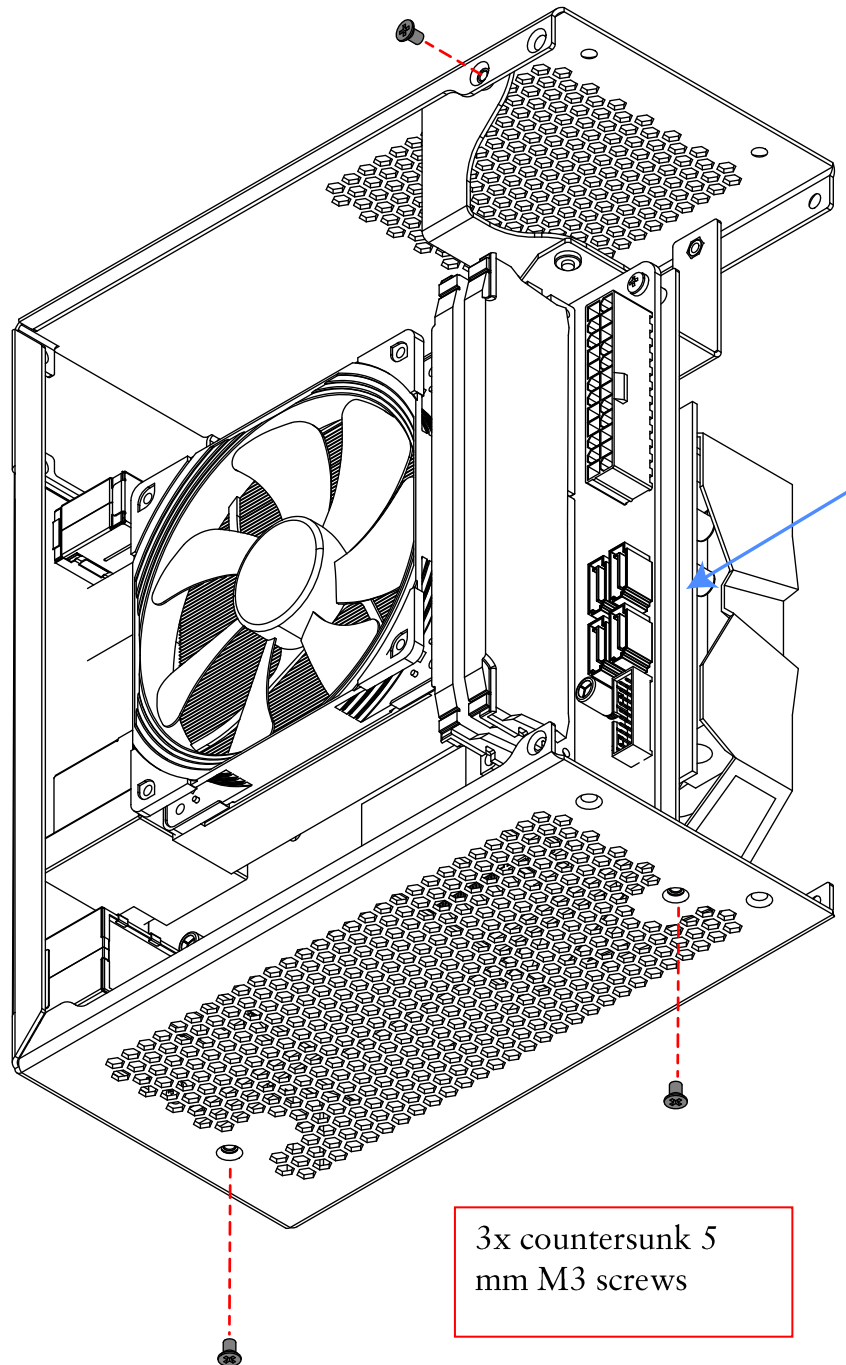


## INSTALLATION INTO THE MAIN BODY

Insert the subassembly from the previous step into the frame.

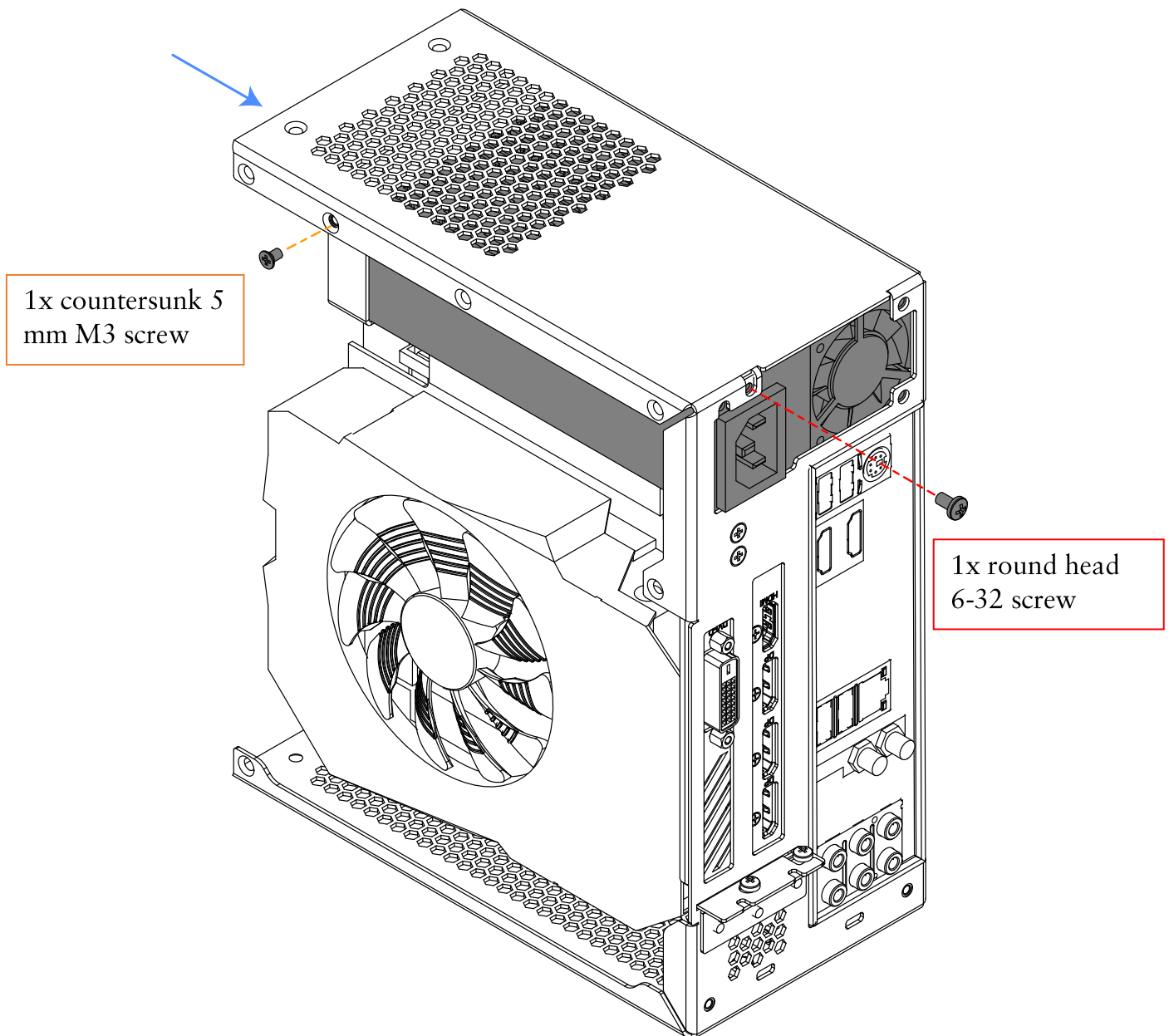


Screw in middle subassembly with all components at the bottom and on the left side. Only screw in the right screw after installing the power supply.



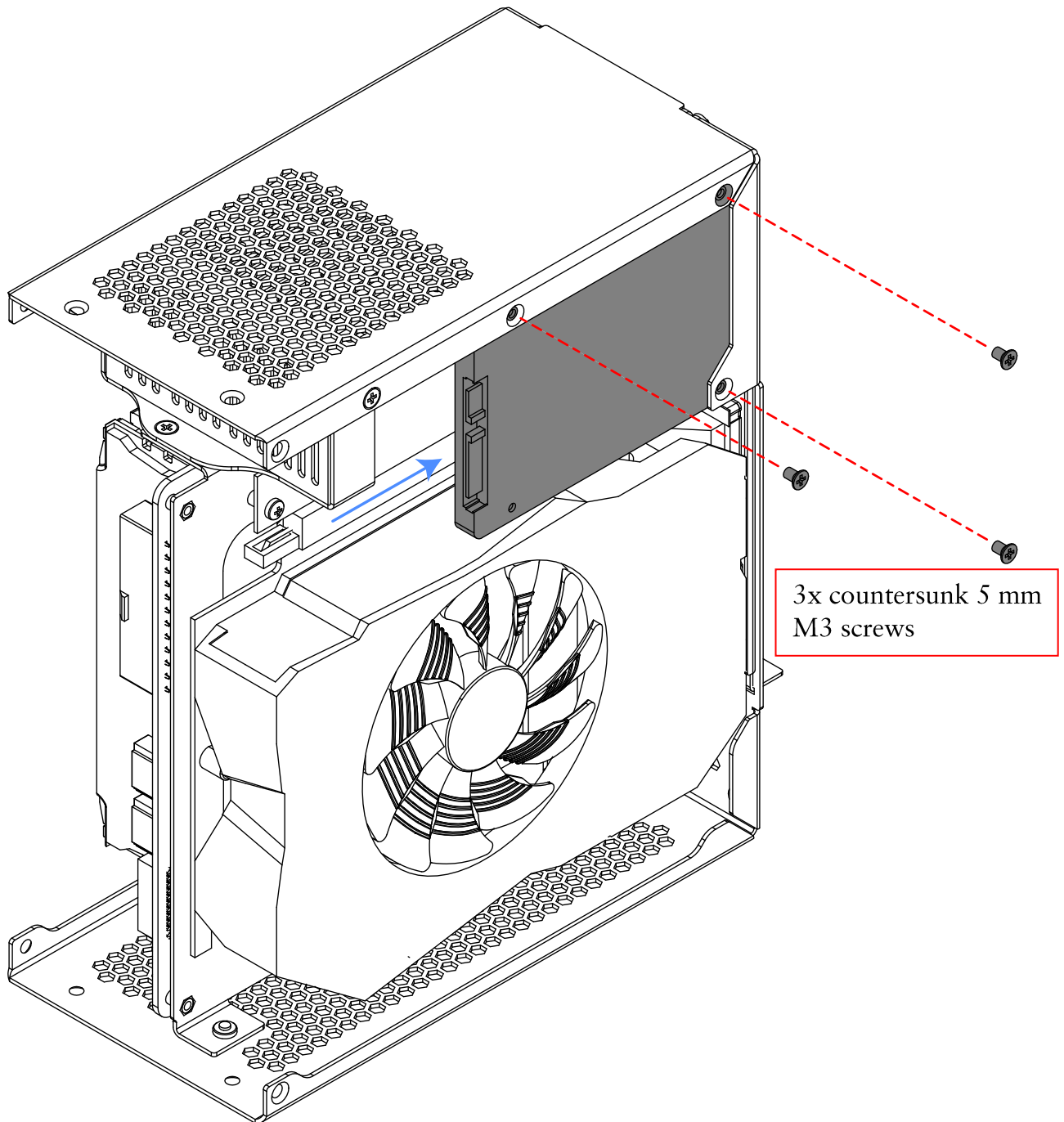
## POWER SUPPLY

Slide in the power supply in the orientation shown and only attach it to the main body with the middle screw. Screw in the last PSU holder screw only after installation, otherwise, the PSU may not slide in easily.



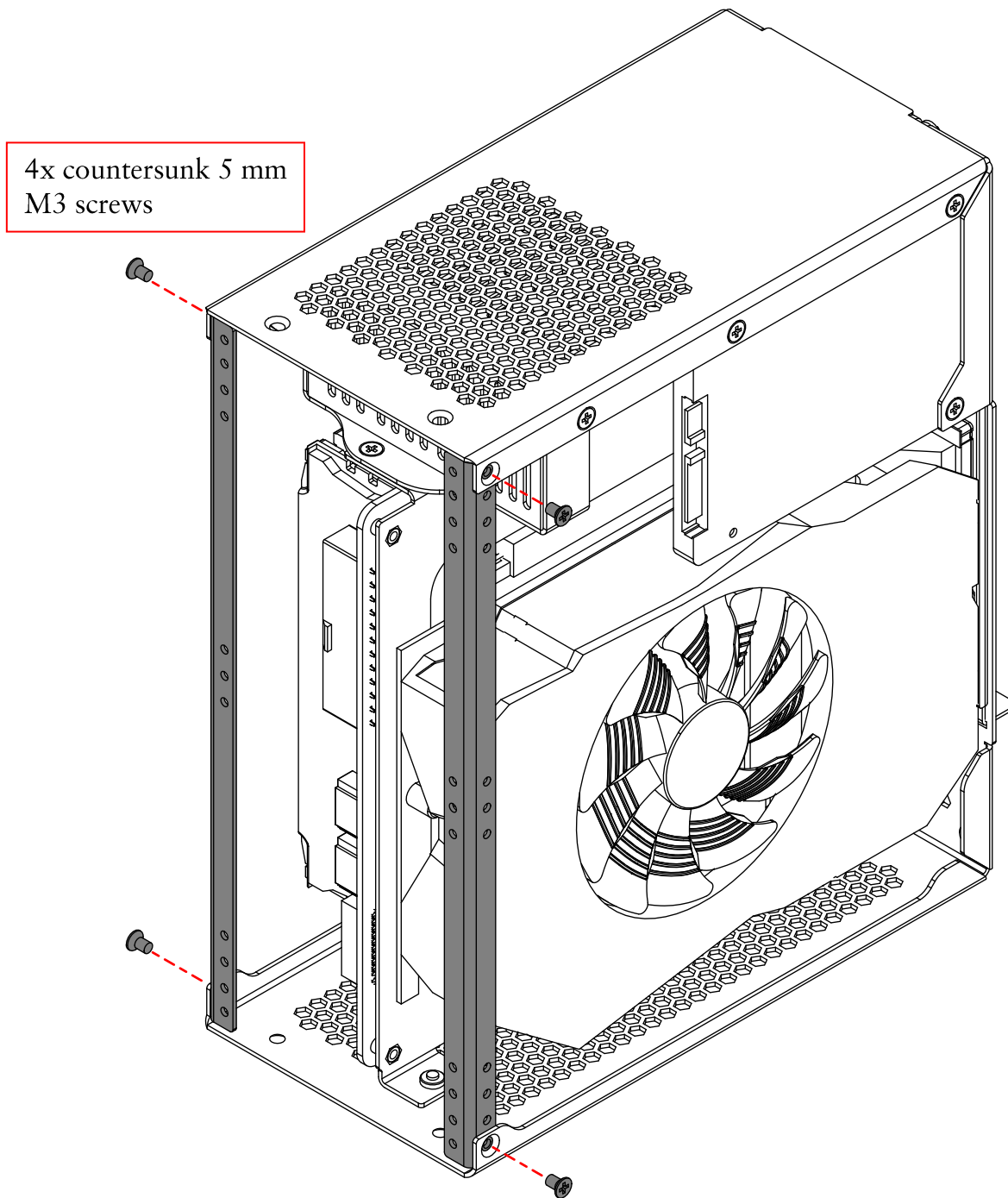
## 2.5" DRIVE (DEDICATED MOUNT)

Slide in the 2.5" drive from the front and secure it to the main body of the case. Connect all cables after this step.



## FRONT STRUTS

All cables must be plugged in before this step. Complete the main body by installing the two struts in the front.

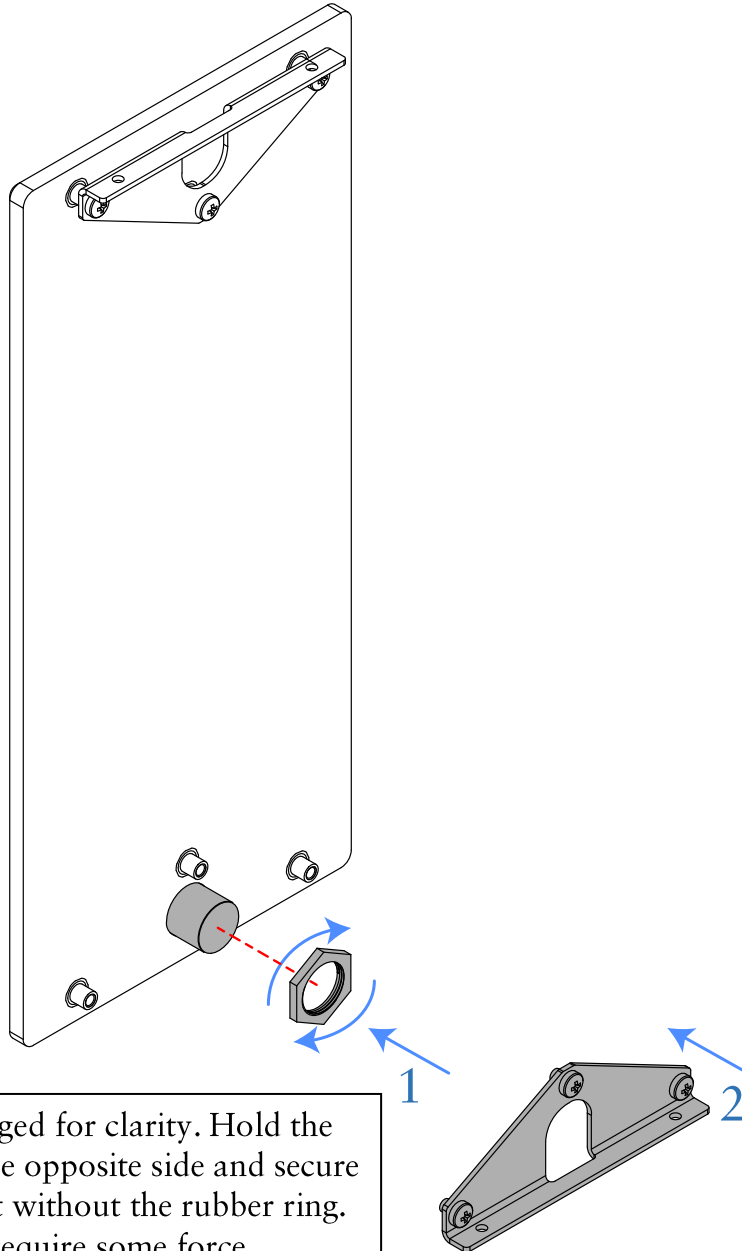




## POWER BUTTON

Remove the bottom bracket temporarily to install the power button. Use the hex nut to fix the button in place, then reinstall the bottom bracket.

Consult your motherboard manual for the front panel header pin layout and **plug the power button wires into the corresponding motherboard pins before proceeding to the next step.**



Button is enlarged for clarity. Hold the button from the opposite side and secure it using the nut without the rubber ring. This step will require some force.

## SIDE PANELS

The power button must be plugged into the motherboard before installing the side panels.

The side panels have three positions. Spacing them farther away from the body of the case will result in quieter operation.

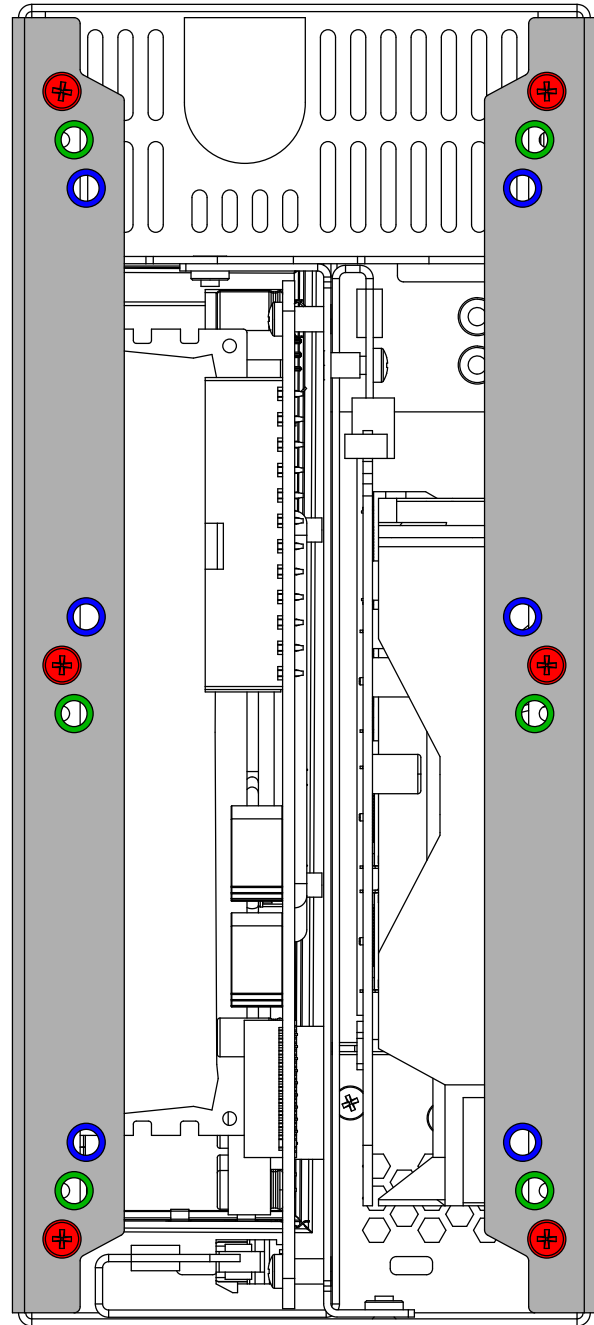
0 mm spacing

2 mm spacing (experimental)

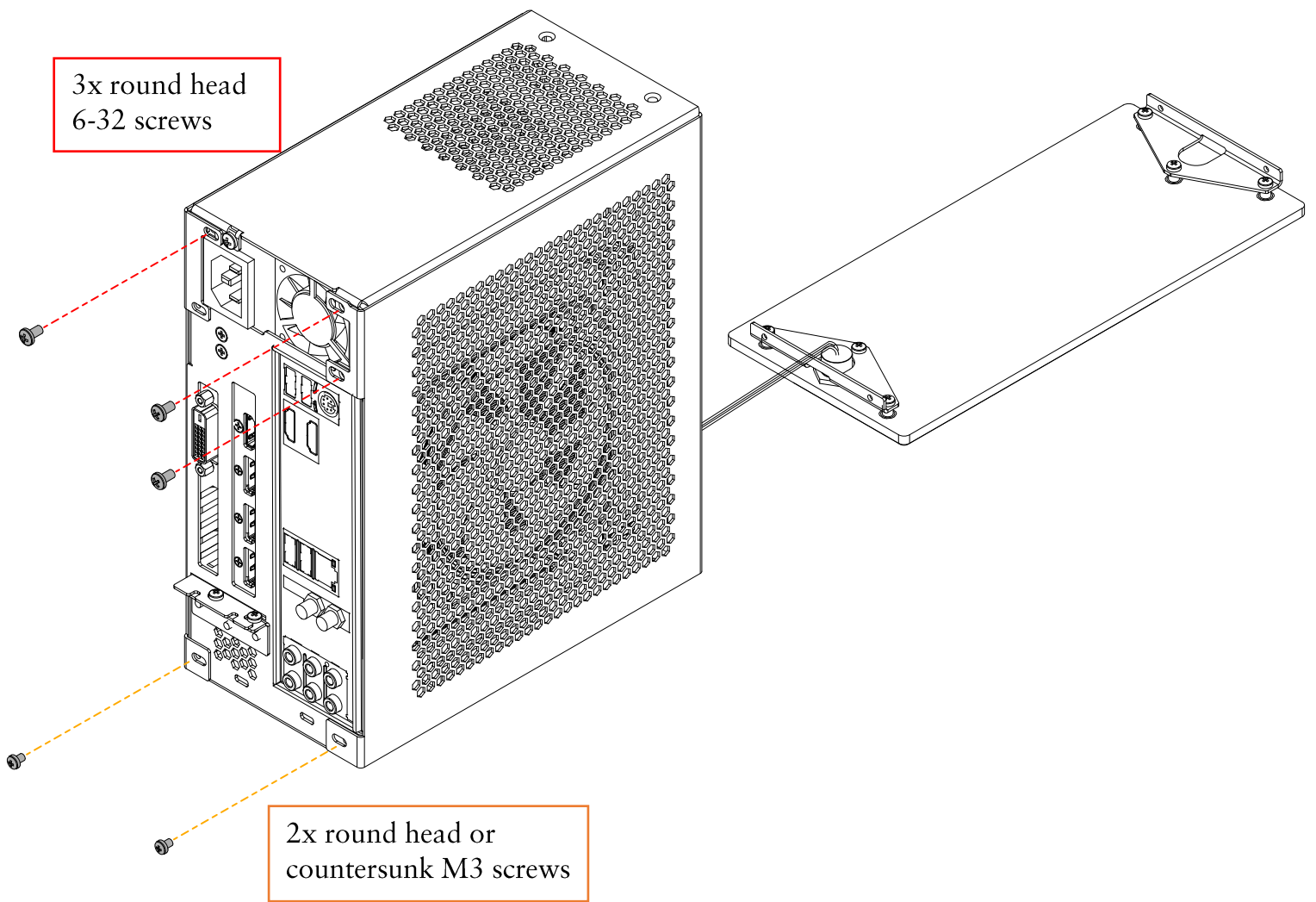
4 mm spacing (experimental)

If using the experimental 2 or 4 mm spacing, adhesive rubber feet may be inserted between the side panel and main body to help keep the side panels straight.

6x countersunk 5 mm  
M3 screws







## FRONT PANEL

Slide in the front panel while carefully inserting the power button's cable into the case. Secure the front panel to the frame at the bottom and the top.

For an easier fit, re-position the brackets on the inside of the front panel away from the edges.

Stick on the included adhesive rubber feet.

