# Manuals+ — User Manuals Simplified.

# MSI MPG GUNGNIR 300R AIRFLOW MPG Series PC Case Instructions

# Contents

# MPG Series

## PC Case

MPG GUNGNIR 300R AIRFLOW
MPG GUNGNIR 300P AIRFLOW
MPG GUNGNIR 300R AIRFLOW WHITE

User Guide

## Specifications

**Comparison of Key Differences**

| Product Name | MPG GUNGNIR 300R AIRFLOW | MPG GUNGNIR 300R AIRFLOW WHITE | MPG GUNGNIR 300P AIRFLOW | MPG GUNGNIR 300P AIRFLOW LITE |
|---|---|---|---|---|
| Color | Black | White | Black | Black |
| Fan Configuration | Front: 3 x 120mm PWM ARGB Fans<br><br>Rear: 1 x 120mm PWM ARGB Fan | Front: 3 x 120mm PWM ARGB Fans<br><br>Rear: 1 x 120mm PWM ARGB Fan | Front: 3 x 120mm PWM Fans (non-ARGB)<br><br>Rear: 1 x 120mm PWM Fan (non-ARGB) | Front: 3 x 120mm PWM Fans (non-ARGB)<br><br>Rear: 1 x 120mm PWM Fan (non-ARGB) |
| LED Switch Button | Yes | Yes | No | No |
| Horizontal GPU Bracket | Pre-installed | Pre-installed | Included in accessory box | Included in accessory box |
| Vertical GPU Bracket | Included in accessory box | Included in accessory box | Pre-installed | Pre-installed |
| PCIe4.0x16 Riser Cable | Not included | Not included | Pre-installed | Not included |

**Basic Information**

| Case Type | Mid Tower |
|---|---|
| Dimensions (DxWxH) | 505 x 235 x 510mm |
| Supported Motherboard Sizes | EATX*, ATX, Micro-ATX, Mini-ITX<br><br>* EATX up to 280 x 305mm (12"x10.9") |

**Cooling Fan Support**

| Top | 3 x 120mm or 2 x 140mm |
|---|---|
| Front | 3 x 120mm or 3 x 140mm |
| Rear | 1 x 120 / 140mm |
| PSU Shroud | 2 x 120mm |
| Cable Cover | 1 x 80mm* / 1 x 120mm<br><br>* Pre-installed with an 80 mm fan in the 300P series. |
| Vertical GPU Bracket | 2 x 60mm** (thickness: 15mm)<br><br>** pre-installed in the 300P series. |

**Expansion Slots**

| Horizontal GPU Bracket | 7 slots |
|---|---|
| Vertical GPU Bracket | 4 slots & equipped with 2 x 6015 fans*<br><br>* 6015 fans are optional for 300R and pre-installed for 300P. |

**Drive Bays**

| 2.5″ SSD | 4 (up to 8)*<br><br>* Only supports up to 7 when using EATX motherboard |
|---|---|
| Combo 3.5″/2.5″ | 2 |

**I/O Ports and Buttons**

| USB Ports | 2 x USB 3.2 Gen1 Type-A, 1 x USB 3.2 Gen2x2 Type-C |
|---|---|
| Audio Ports | 1 x Audio jack, 1 x Micphone jack |
| Buttons | 1 x Reset button, 1 x Power button, 1 x LED switch button (300R) |

**Chassis Clearances**

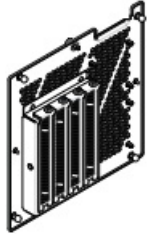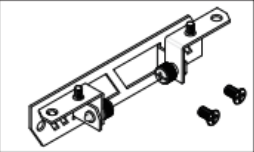| | |
|---|---|
| **Maximum CPU Cooler Height** | 175mm |
| **Maximum GPU Length** | 300R series:<br>360mm (GPU holder installed at right front)<br>340mm (GPU holder installed at right rear)300P series:<br>338mm* (GPU holder installed at right front or right rear)* After removing the pre-installed 80mm fan, the maximum GPU length of the 300P series is the same as that of the 300R series |
| **Maximum GPU Width** | 142mm (Horizontal installed)<br><br>150mm (Vertical installed) |
| **Maximum GPU Thickness** | 80mm |
| **Radiator Support** | Front: 360mm, Top: 360mm, Rear: 140mm |
| **PSU Support** | Above 220mm |

**Materials**

| | |
|---|---|
| **Steel Thickness** | 0.8mm |
| **Tempered Glass** | 3mm |
| **Front Bezel*** | Perforated Metal Mesh + ABS<br><br>* Removable for easy cleaning, with Ø1mm mesh holes that do not require a dust filter. |
| **Top Bezel**** | Metal<br><br>** Non-removable for airflow optimization |
| **Dust Filter** | Top: Magnetic filter<br><br>Side: Magnetic filter<br><br>Bottom: Plastic pull-out filter |

**Accessories (300R)**

| Item | Name / Q'ty | Used for |
|:---:|:---:|:---:|
|  | Cable ties<br><br>x10 | Cable management |

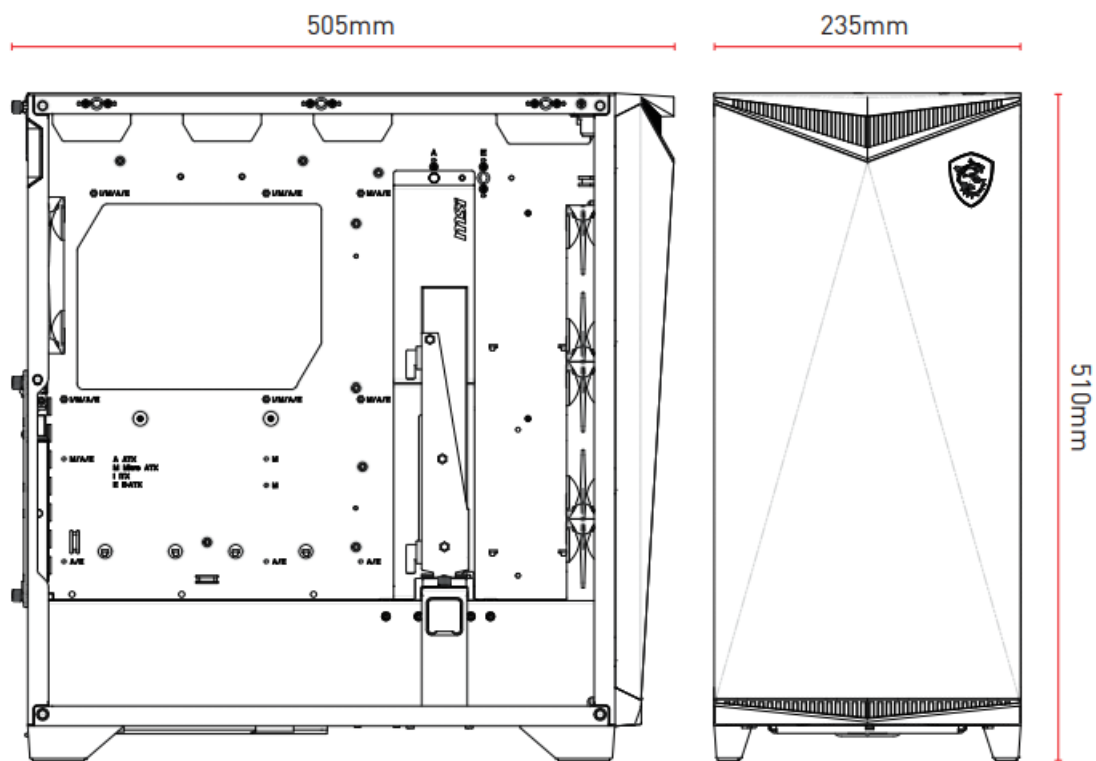| | L-shaped Screwdriver<br><br>x1 | Securing vertical graphics card & bracket |
|---|---|---|
| | Screw M3 5mm<br><br>x35 | Motherboard / SSD / PCIe riser cable |
| | Screw #6-32 6mm<br><br>x4 | Securing PSU |
| | Screw #6-32 6mm<br><br>x4 | Securing HDD |
| | Screw #6-32 7.5mm<br><br>x8 | Securing liquid cooling radiator |
| | Screw #6-32 30mm<br><br>x12 | Securing liquid cooling radiator fan |
| | Stand-off #6-32 6.5mm<br><br>x2 | PCIe riser cable stand |
| | Stand-off Mounting Tool<br><br>x 1 | Securing motherboard / PCIe riser cable |
| | Vertical graphics card bracket<br><br>x1 | Securing vertical graphics card |
| | 80mm/120mm fan mounting kit x1<br><br>(Bracket x1, Screw Ø5 8mm x4, Screw Ø9.5 14.5 mm x2) | Securing 80mm/120mm fan |

**Accessories (300P)**

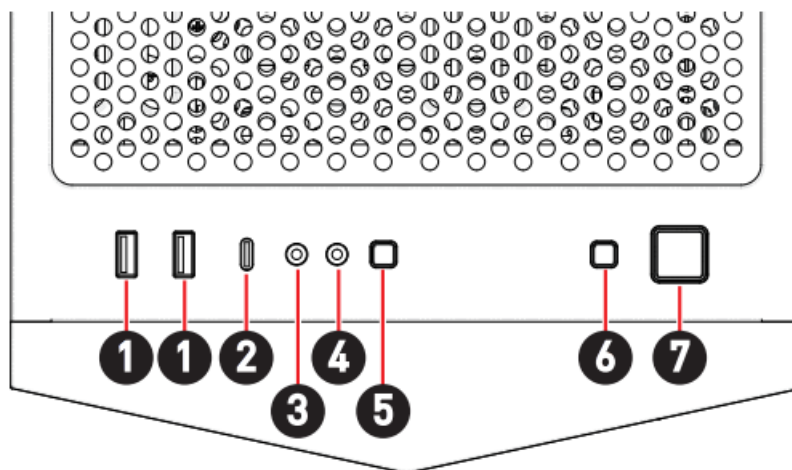| Item | Name / Q'ty | Used for |
|------|-------------|----------|
| | Cable ties x10 | Cable management |
| | L-shaped Screwdriver x1 | Securing vertical graphics card & bracket |
| | Screw M3 5mm x35 | Motherboard / SSD / PCIe riser cable |
| | Screw #6-32 6mm x4 | Securing PSU |
| | Screw #6-32 6mm x4 | Securing HDD |
| | Screw #6-32 7.5mm x8 | Securing liquid cooling radiator |
| | Screw #6-32 30mm x12 | Securing liquid cooling radiator fan |
| | Stand-off Mounting Tool x 1 | Securing motherboard / PCIe riser cable |
| | Horizontal graphics card bracket x1 | Securing horizontal graphics card |
| | Screw Ø5 8mm x2 | Securing 80mm/120mm fan |

**Case Features (300R)**

**Case Features (300P)**

1. MPG GUNGNIR 300P AIRFLOW LITE does not include this accessory

**Side and Front View**

**I/O and Buttons**



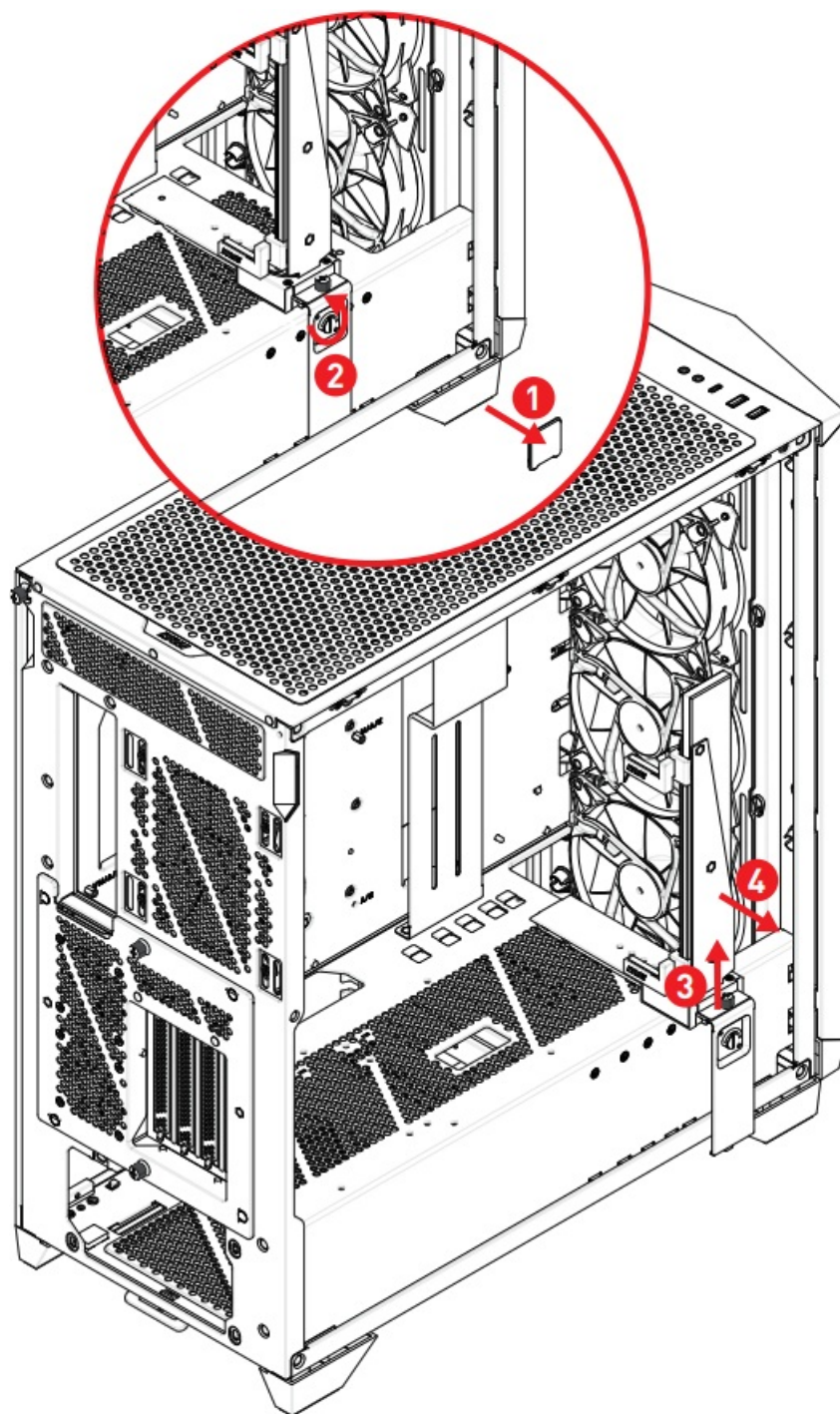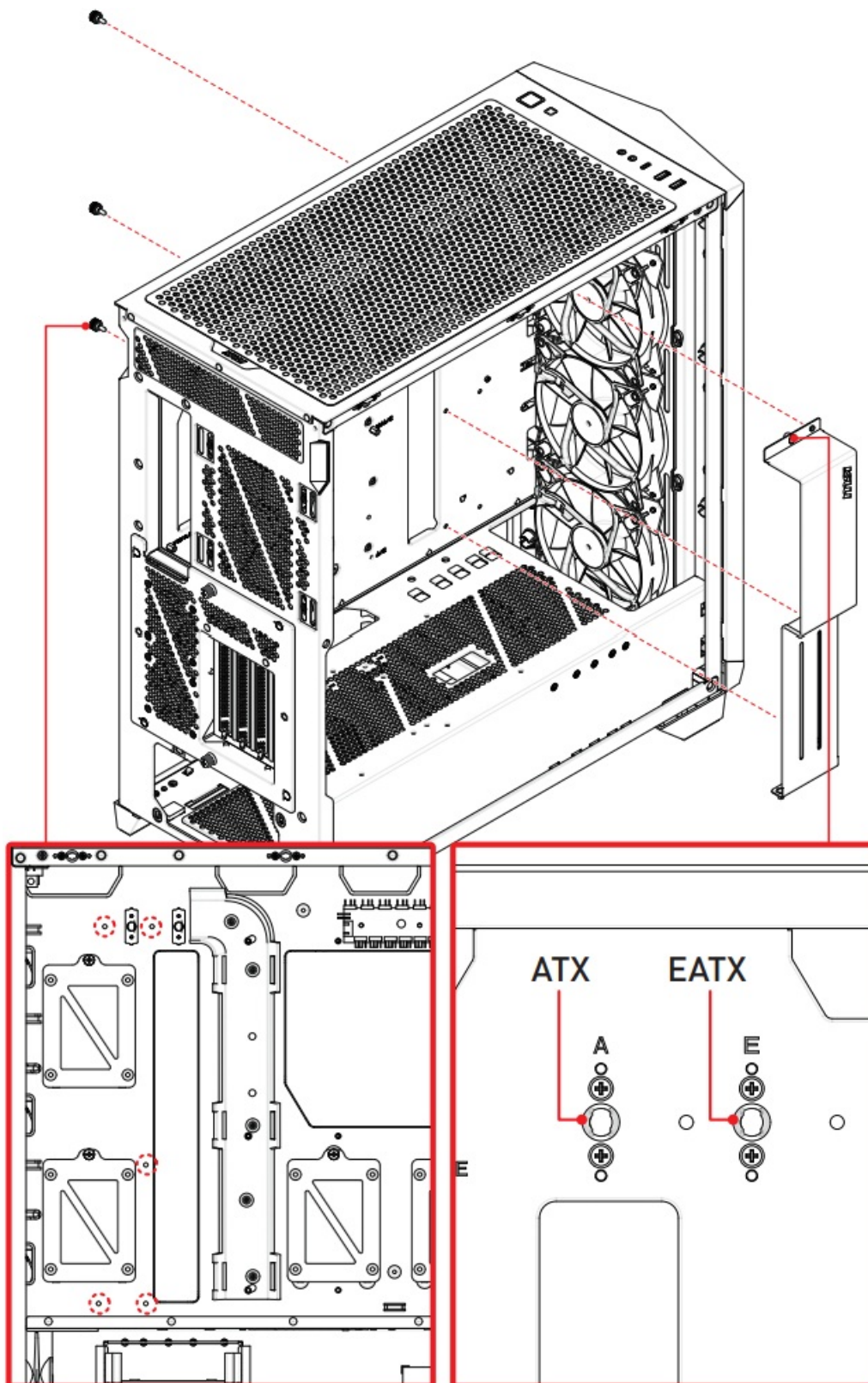| Item | Description |
|------|-------------|
| 1 | USB 3.2 Gen 1 5Gbps Type-A port |
| 2 | USB 3.2 Gen 2 10Gbps Type-C port |
| 3 | Microphone jack |
| 4 | Audio jack |
| 5 | LED switch button (only available on 300R series) |
| 6 | Reset button |
| 7 | Power button |

**Side Panel Removal**
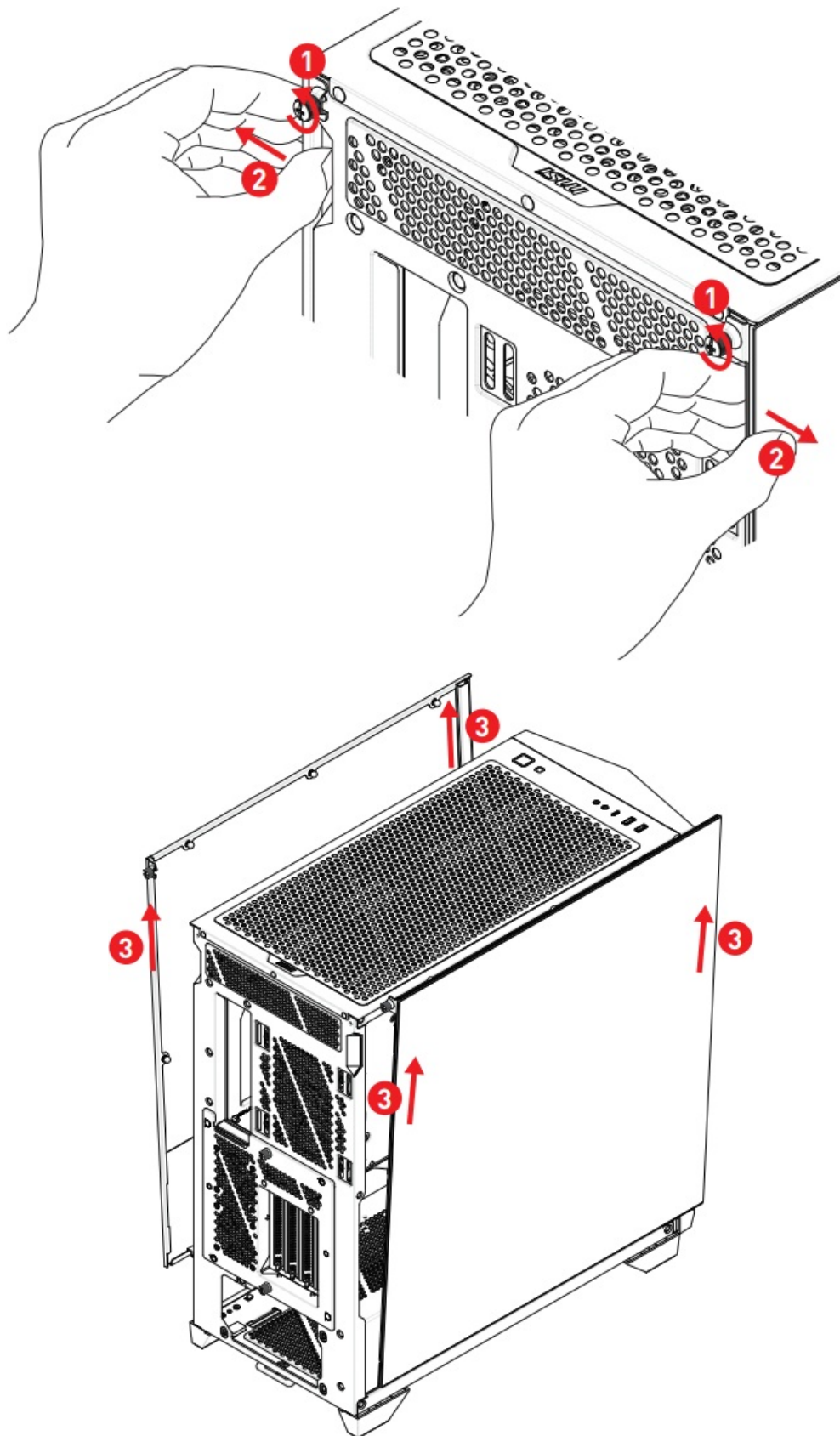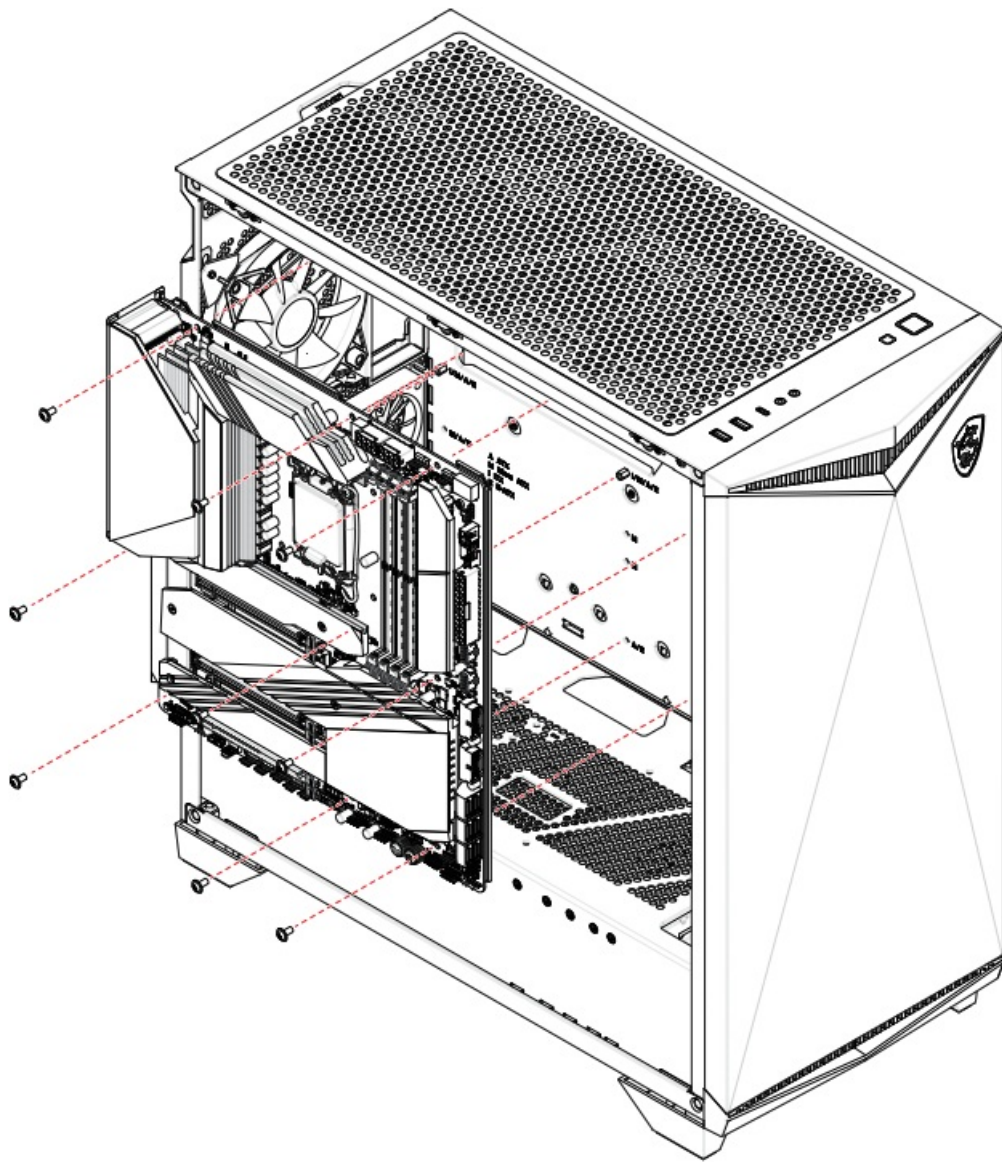
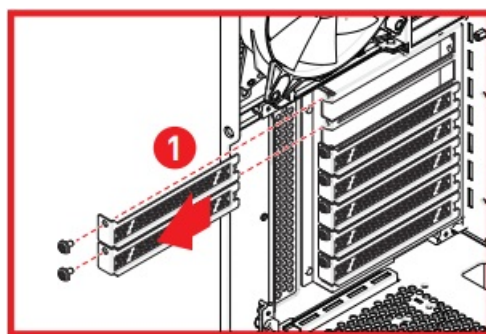**Front Bezel Removal**
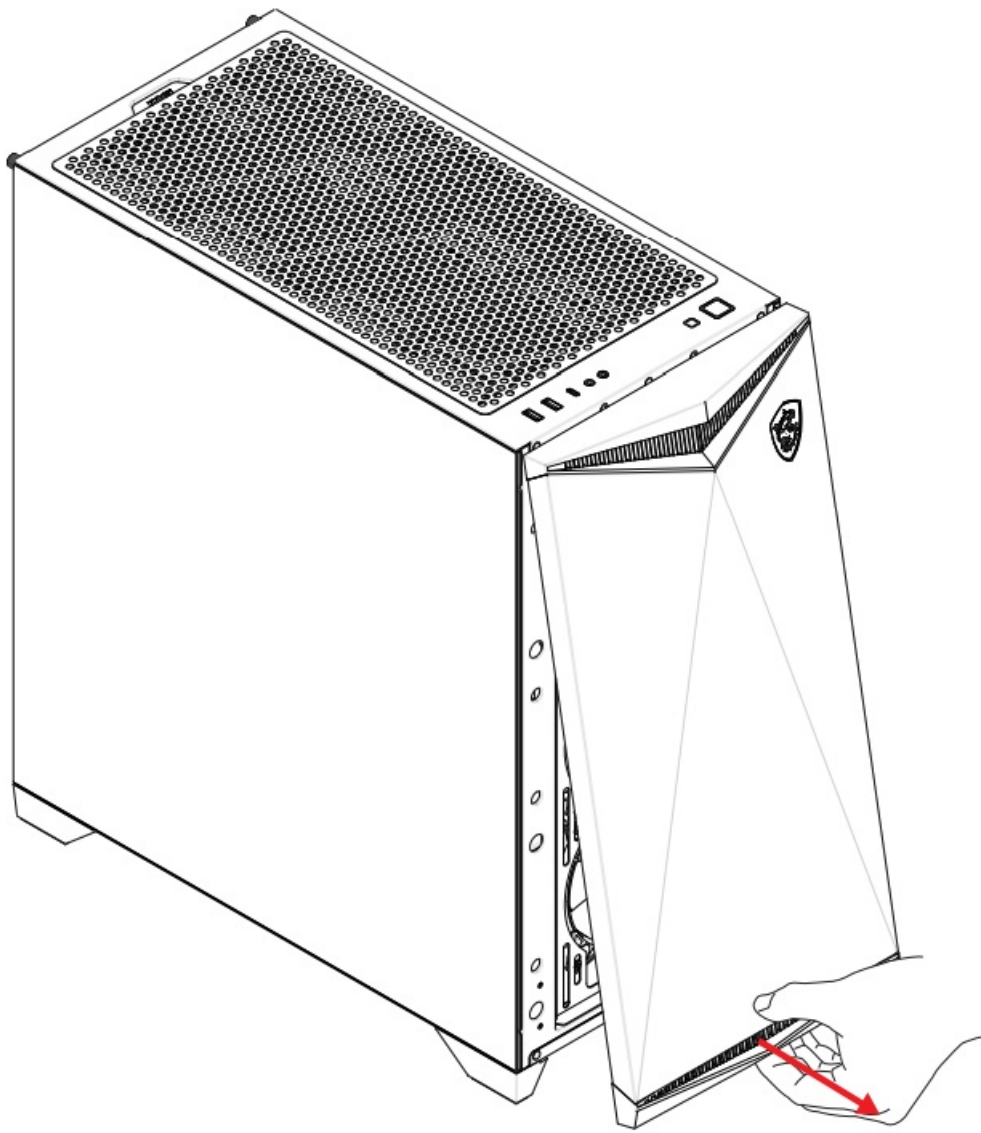
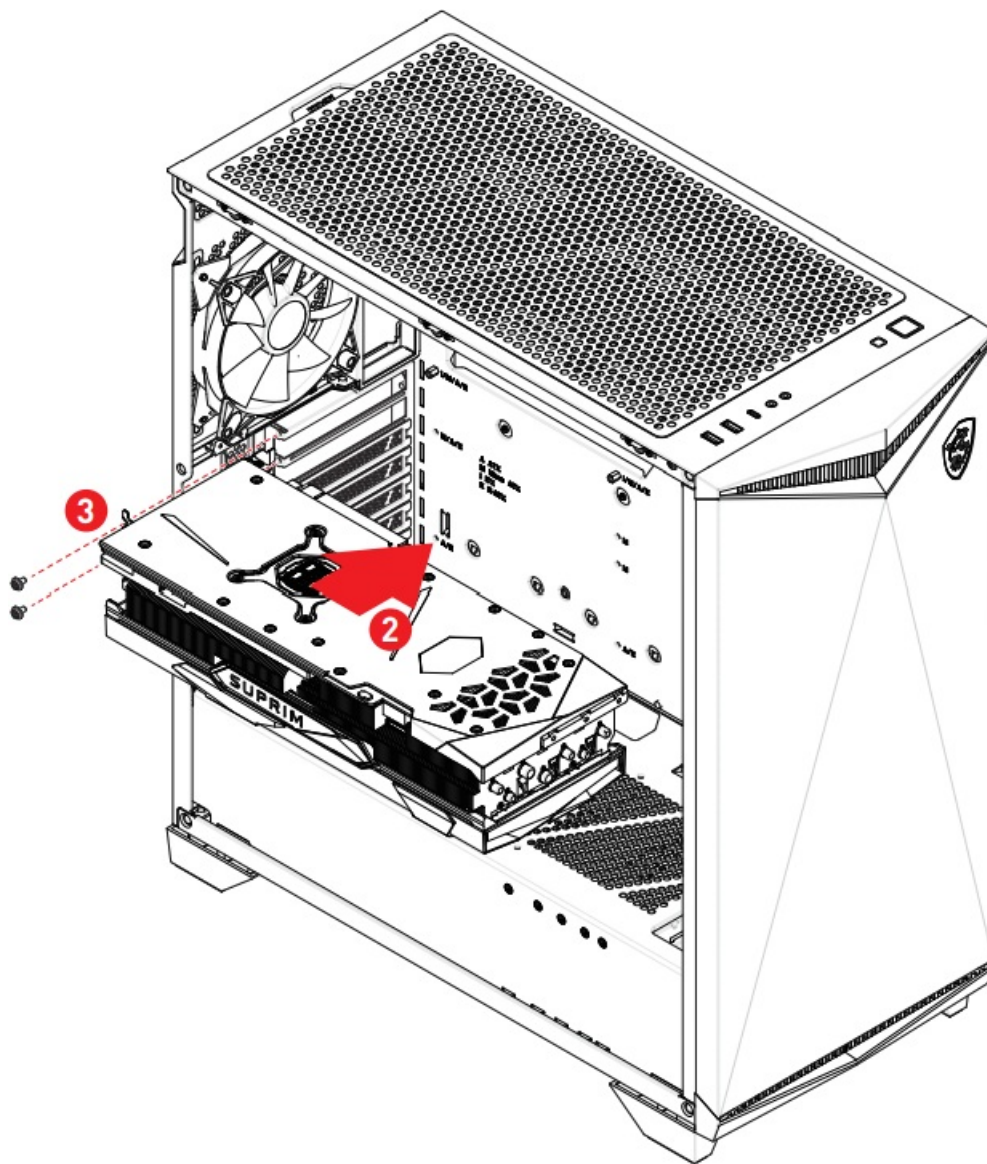**GPU Holder Removal**
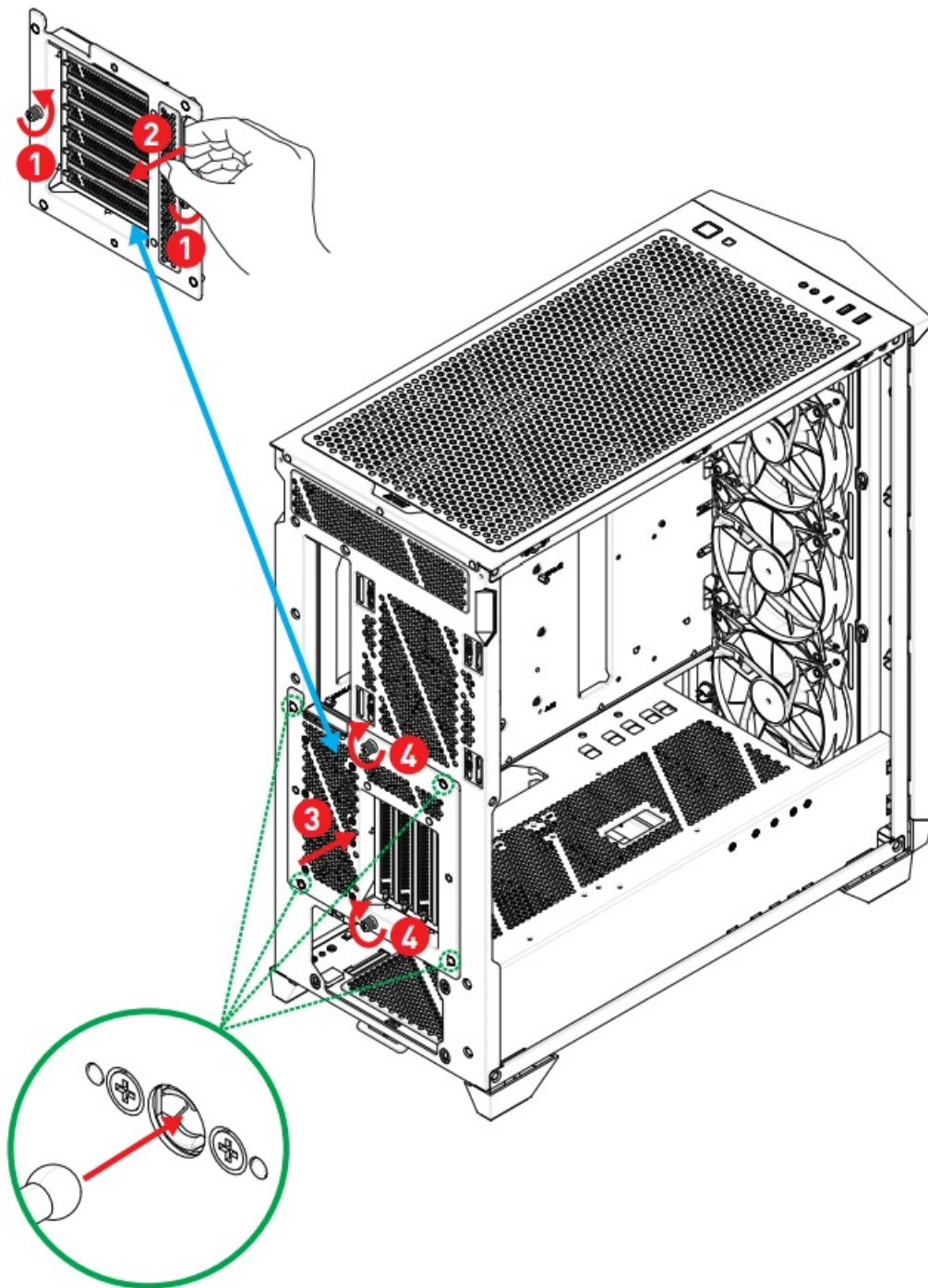
**Cable Cover Removal**

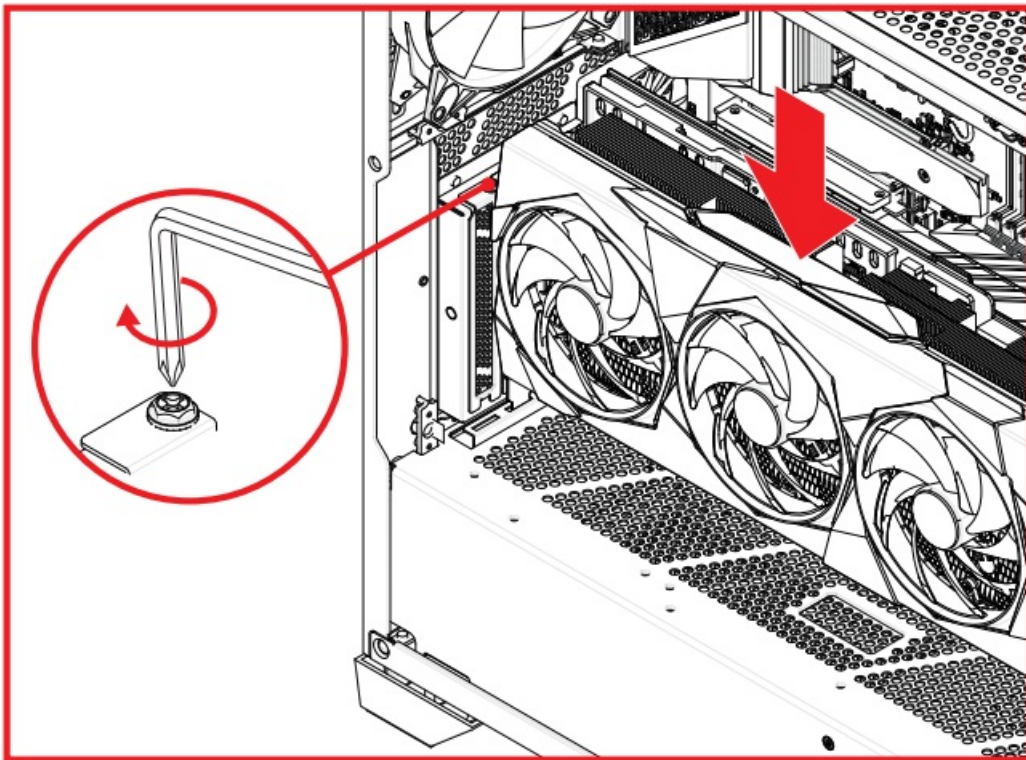**Motherboard Installation**

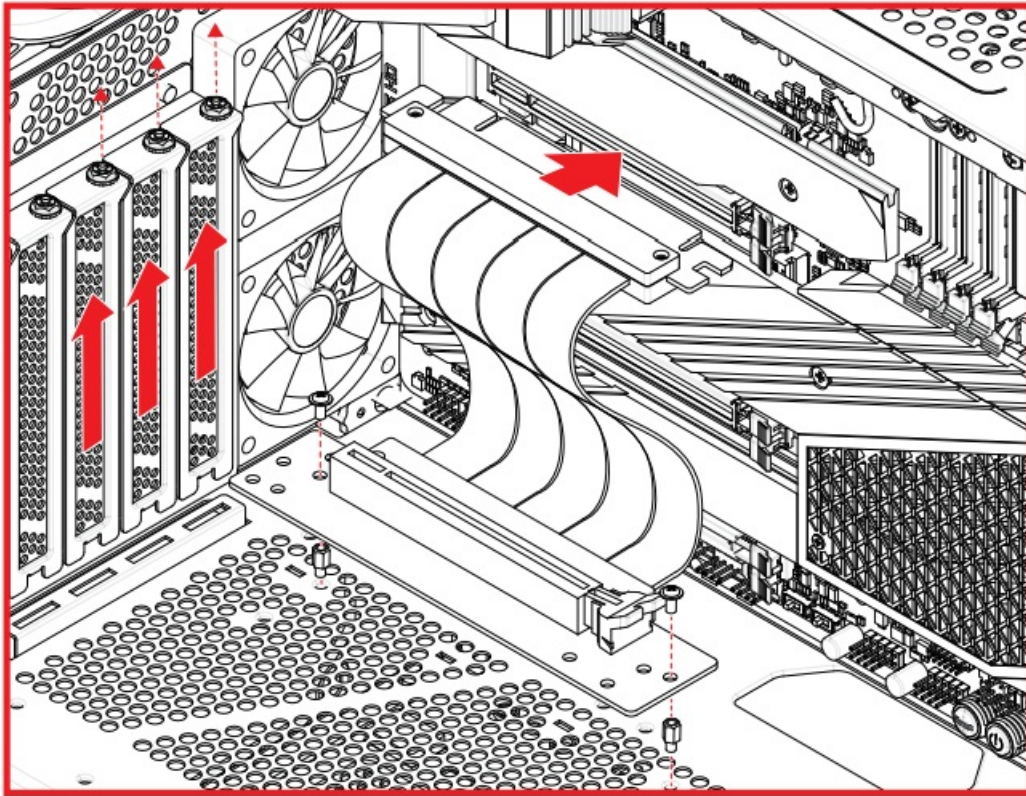**Horizontal Graphics Card Installation**
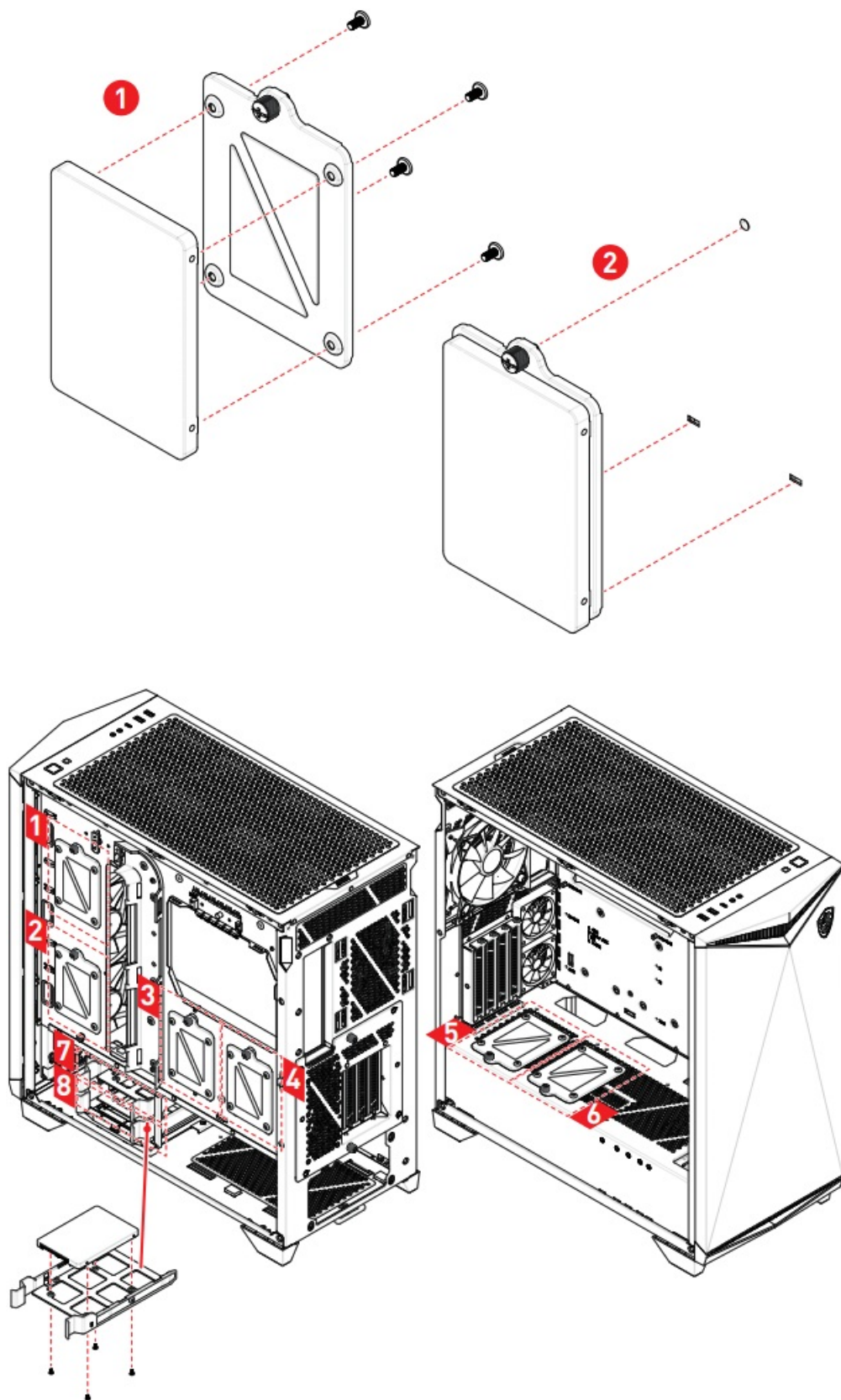
**Vertical Graphics Card Installation (1)**

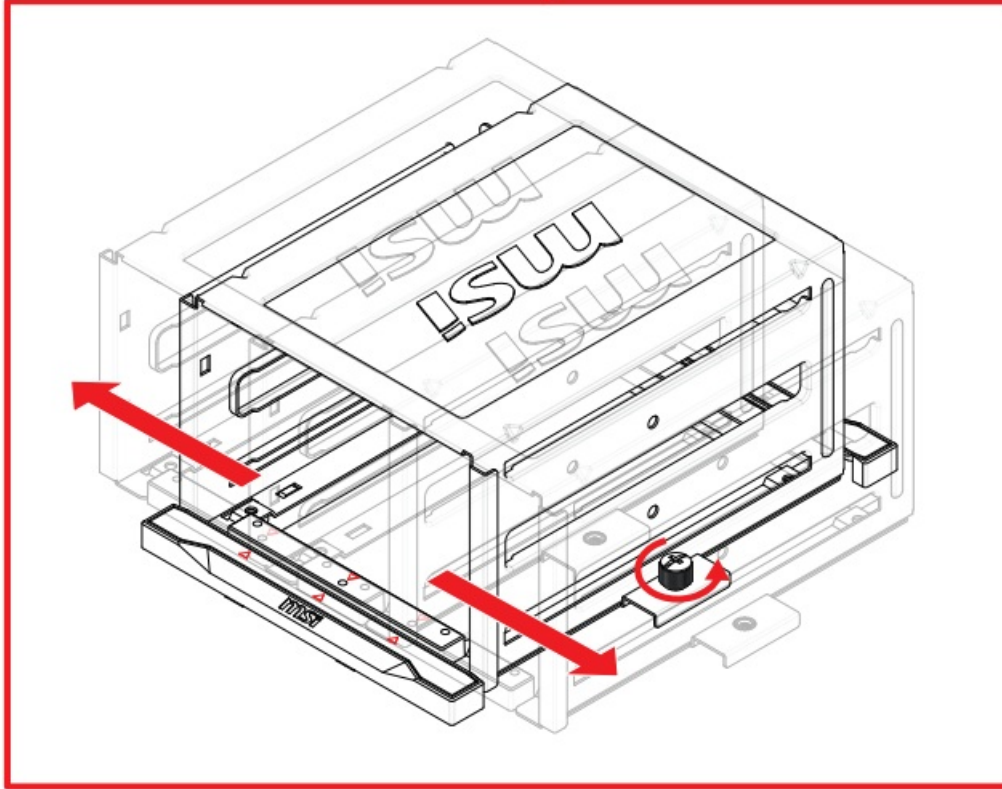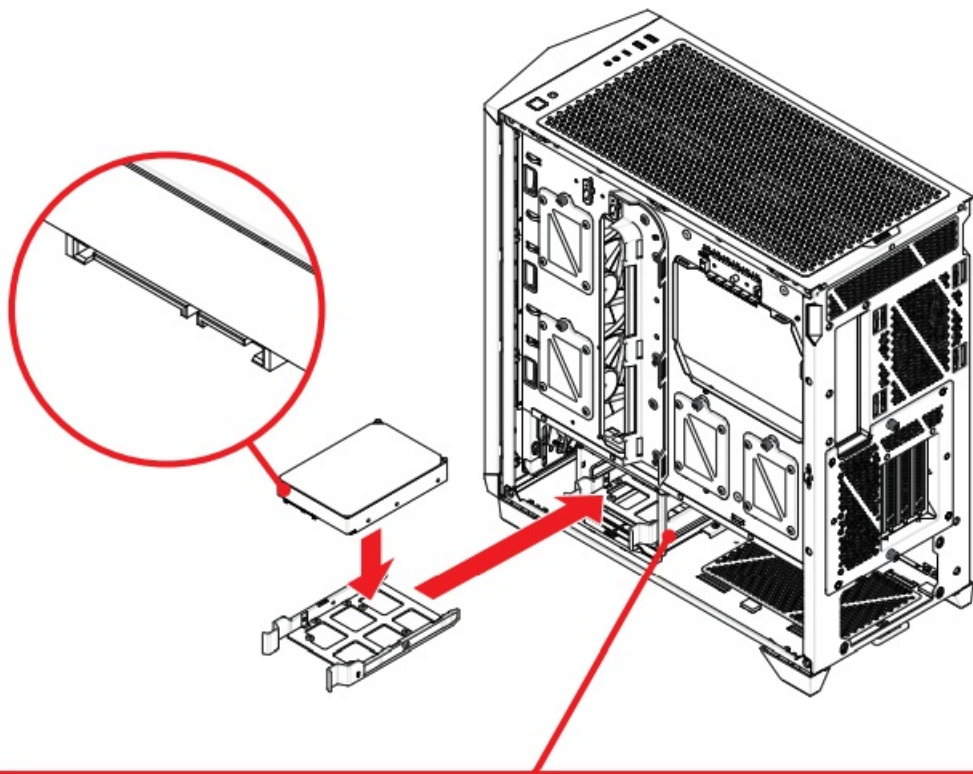**Vertical Graphics Card Installation (2)**

**SSD Installation**

**HDD Installation**

**PSU Installation**

**Top Panel I/O Connection**

JUSB
(USB 3.2 Gen2)

JUSB
(USB 3.2 Gen1)

HD AUDIO → JAUD1

F_PANEL → JFP1
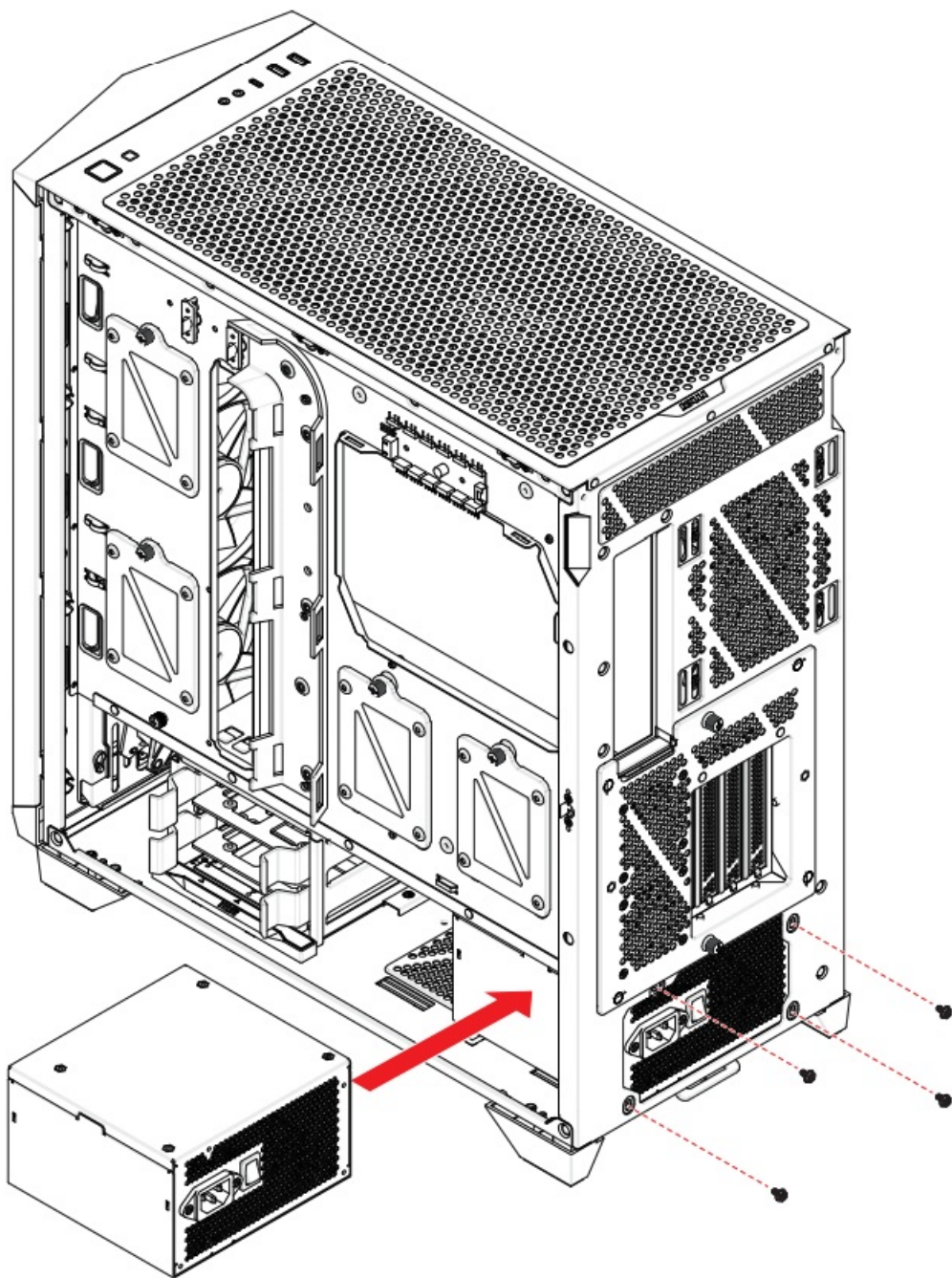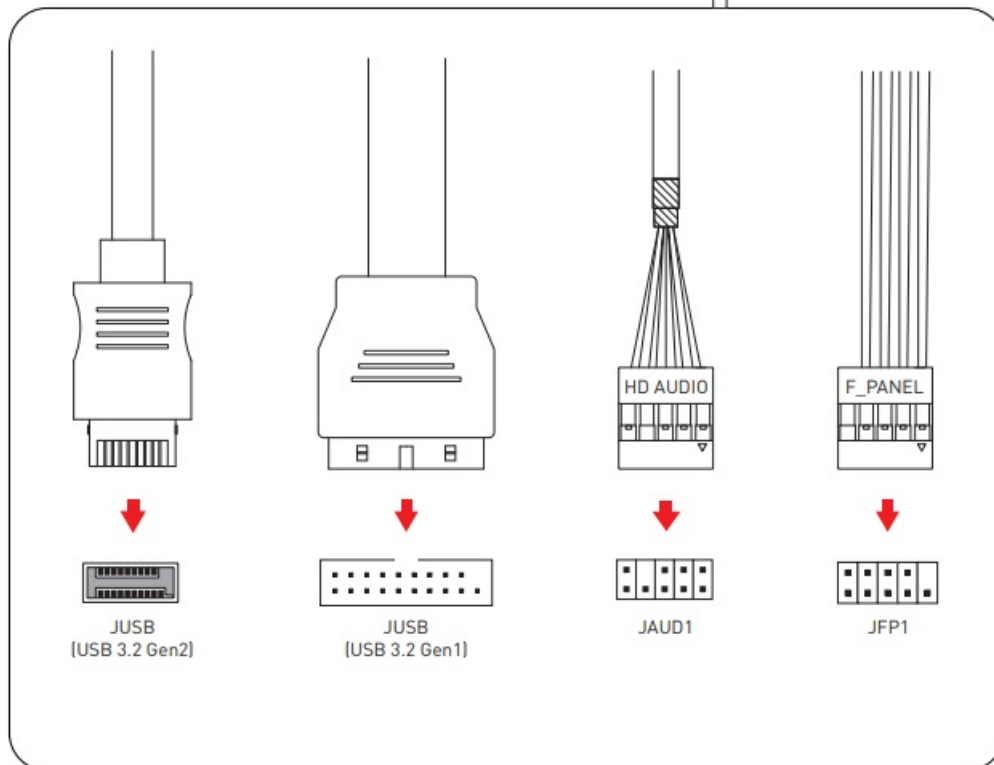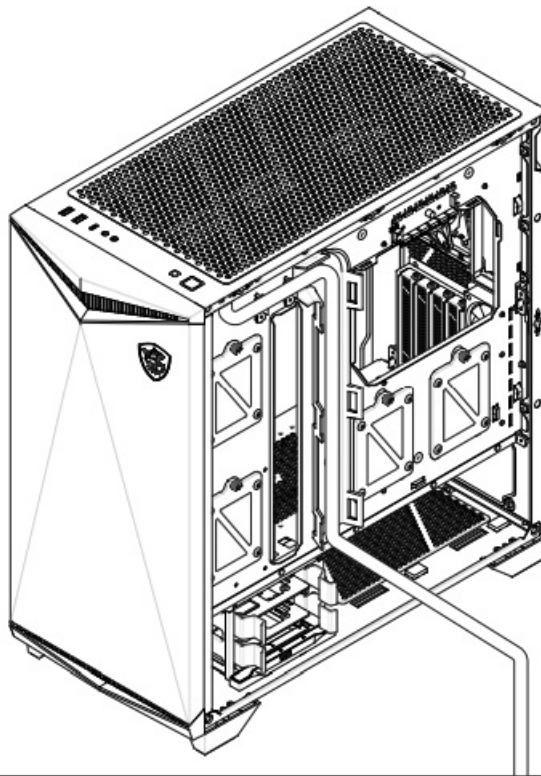
**Control Board Connection**
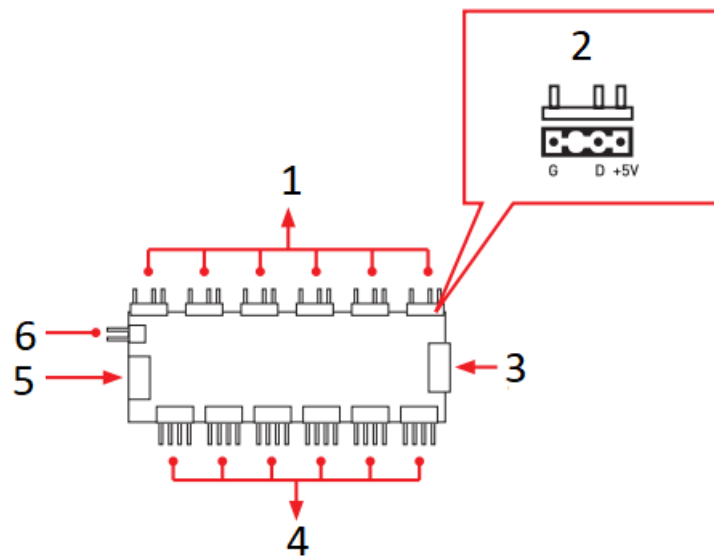
1. ARGB LED
2. ARGB connector
3. Motherboard ARGB and fan connectors
4. Fan
5. Power supply's SATA connector
6. LED Switch button

**Addressable RGB LED Strip Connection**



1. ARGB connector
2. ARGB extension cable
3. ARGB strip

**Addressable RGB LED Fan Connection**



1. ARGB connector
2. Fan connector
3. ARGB Fan

1. ARGB
2. RGB

## ⚠️ IMPORTANT

- Please always turn off the power supply and unplug the power cord from the power outlet before installing or removing the ARGB LED Strip.
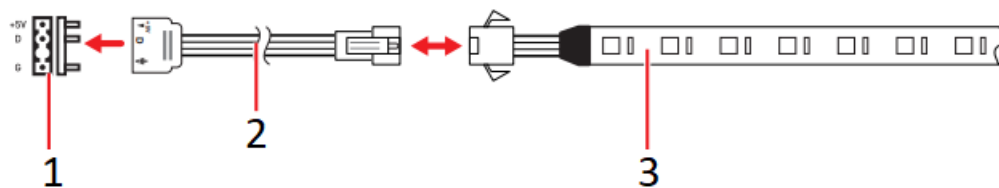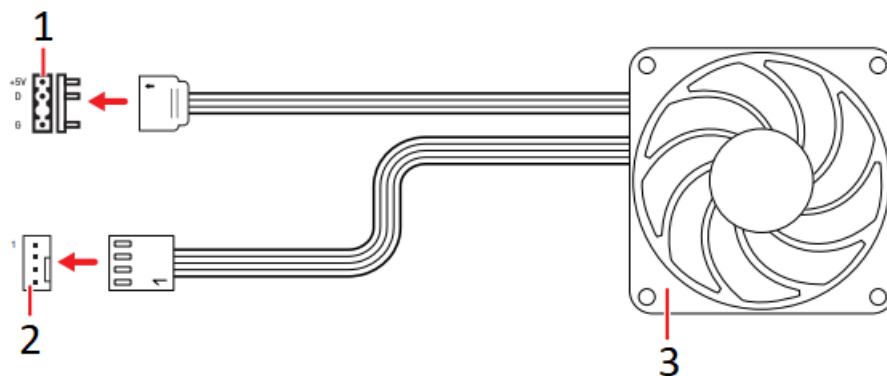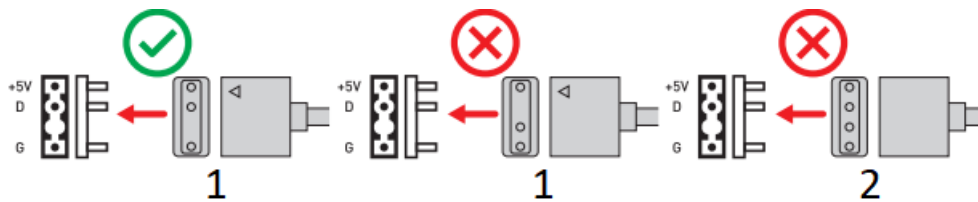- Supports a maximum of 156 LEDs. Exceeding this limit may result in overheating, abnormal colors, or malfunctions.
- Only compatible with 4-pin PWM fans.
- Please ensure all cables are securely connected before powering on.

**LED Effect Sequence**

After pressing the LED Switch button, the LED effect sequence is as follows:

| 1 | Solid red |
|---|---|
| 2 | Solid blue |
| 3 | Solid yellow |
| 4 | Solid green |
| 5 | Solid cyan |
| 6 | Solid orange |
| 7 | Solid purple |
| 8 | Solid white |
| 9 | 8-color running effect (red, blue, yellow, green, cyan, orange, purple, white) |

| | |
|---|---|
| 10 | 8-color breathing transition effect (red, blue, yellow, green, cyan, orange, purple, white) |
| 11 | 8-color flowing effect (red, blue, yellow, green, cyan, orange, purple, white) |
| 12 | Green fading |
| 13 | Blue fading |
| 14 | Red fading |
| 15 | Dual-color running effect (red-blue, blue-yellow, yellow-green, green-cyan, cyan-orange, orange-purple, purple-white, white-red) |
| 16 | Rainbow color cycling (Default) |

**Graphics Card Limitation**
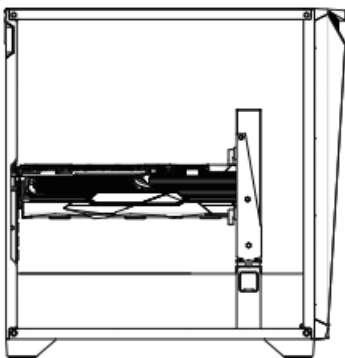


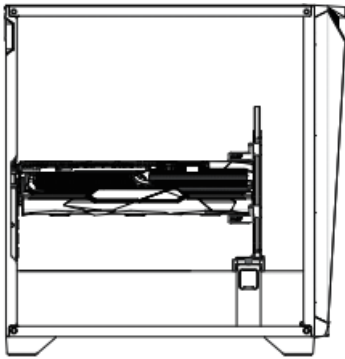**Horizontal GPU and GPU holder at right front Installation**

- GPU Length:
  - Maximum up to 360mm (300R)
  - Maximum up to 338mm (300P)
- GPU Width (Horizontal): Maximum up to 142mm
- GPU Thickness: Maximum up to 80mm
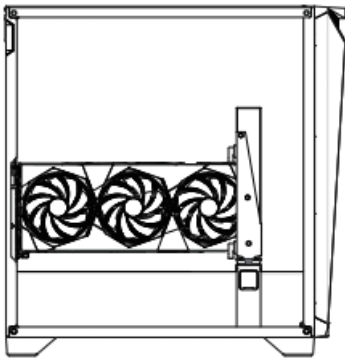
**Vertical GPU and GPU holder at right front Installation**

- GPU Length:
  - • Maximum up to 360mm (300R)
  - • Maximum up to 338mm (300P)
- GPU Width (Vertical): Maximum up to 150mm
- GPU Thickness: Maximum up to 80mm



**Horizontal GPU and GPU holder at right rear Installation**

- GPU Length:
  - • Maximum up to 340mm (300R)
  - • Maximum up to 338mm (300P)
- GPU Width (Horizontal): Maximum up to 142mm
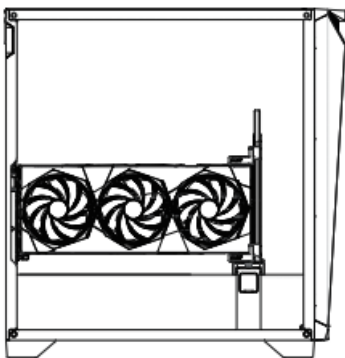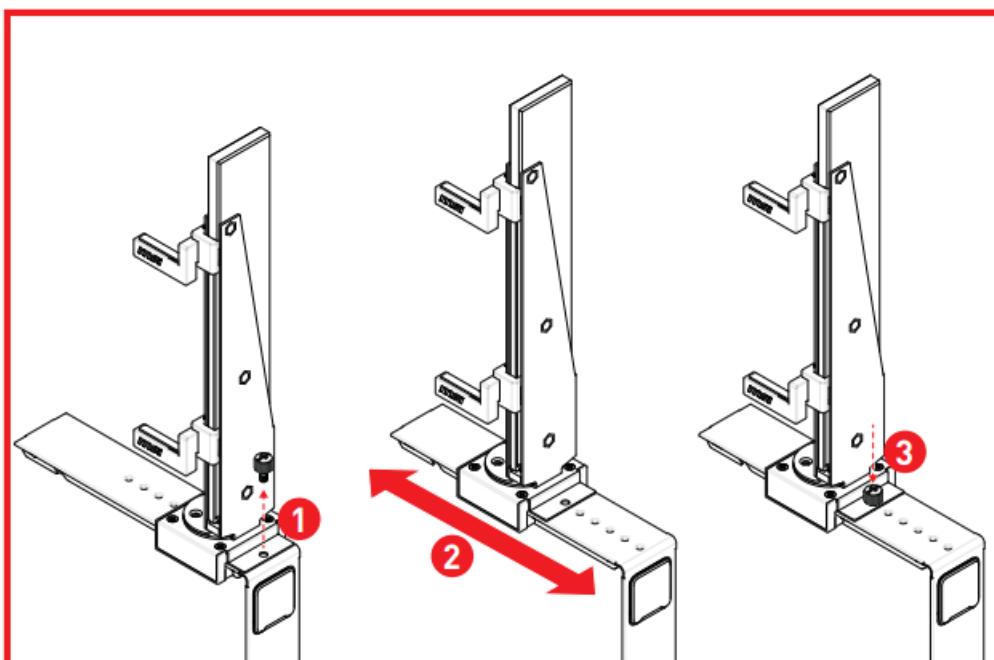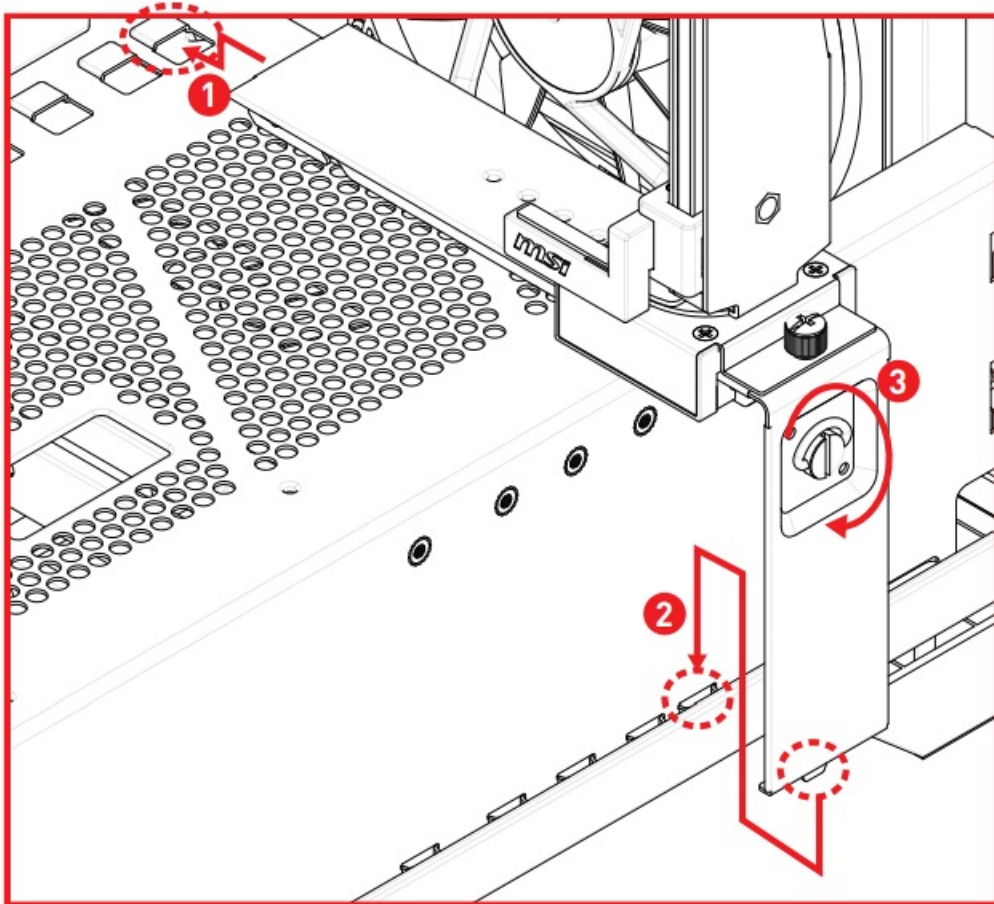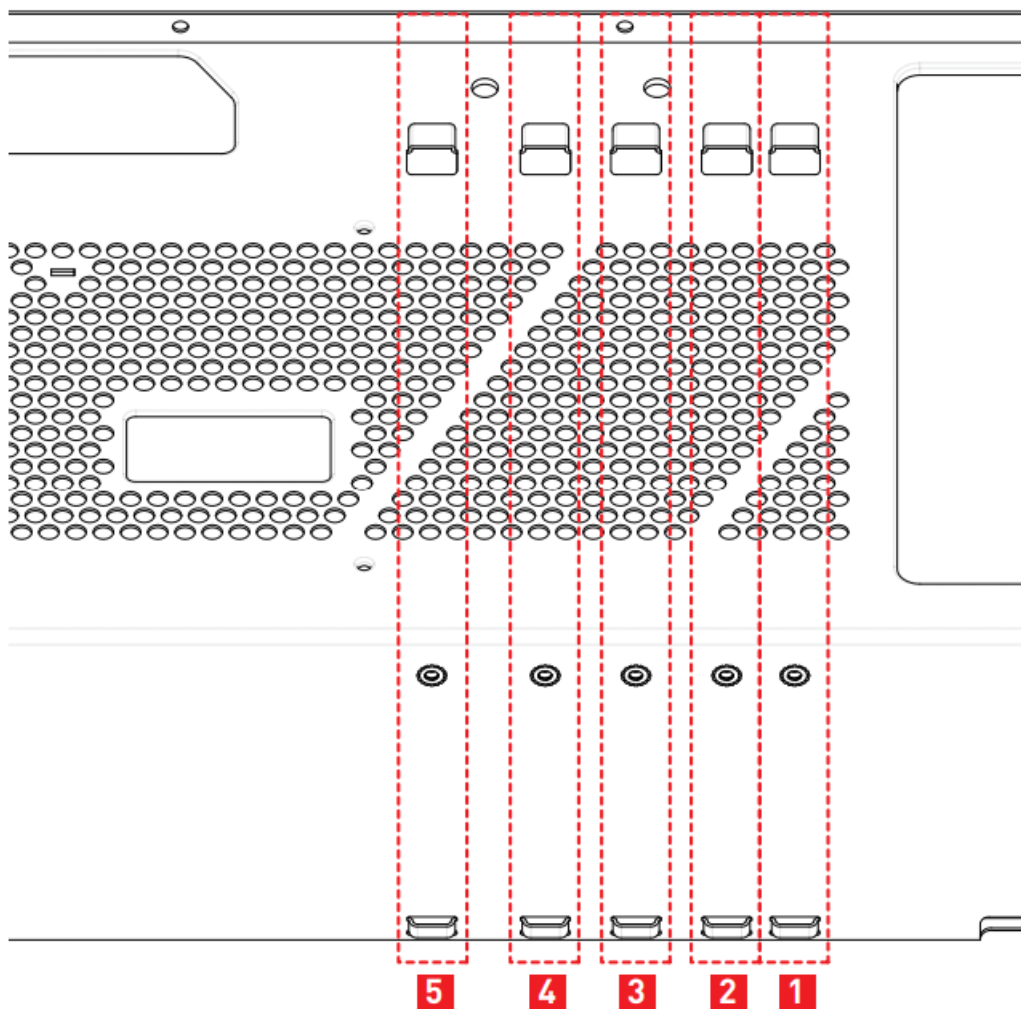- GPU Thickness: Maximum up to 80mm



**Vertical GPU and GPU holder at right rear Installation**

- GPU Length:
  - Maximum up to 340mm (300R)
  - Maximum up to 338mm (300P)
- GPU Width (Vertical): Maximum up to 150mm
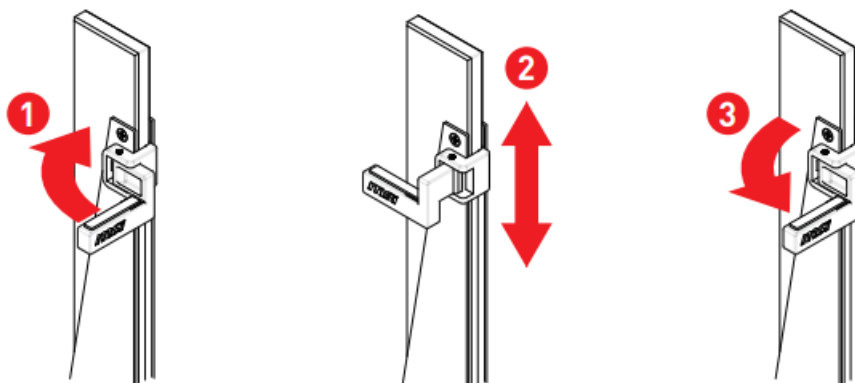- GPU Thickness: Maximum up to 80mm

**GPU Holder Installation**





**GPU Holder Position**

| GPU Holder Position | Maximum GPU Length |
|---|---|
| Position 1 | Less than 340mm |
| Position 2 | Less than 330mm |
| Position 3 | Less than 310mm |
| Position 4 | Less than 290mm |
| Position 5 | Less than 265mm |

**GPU Holder Adjustment**
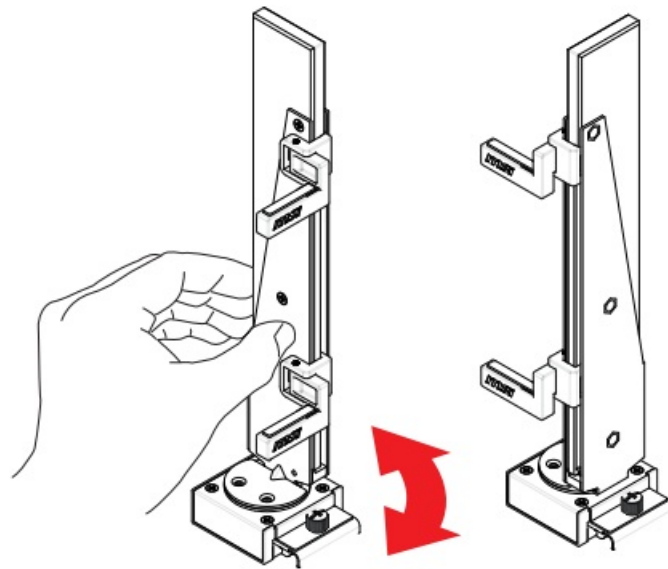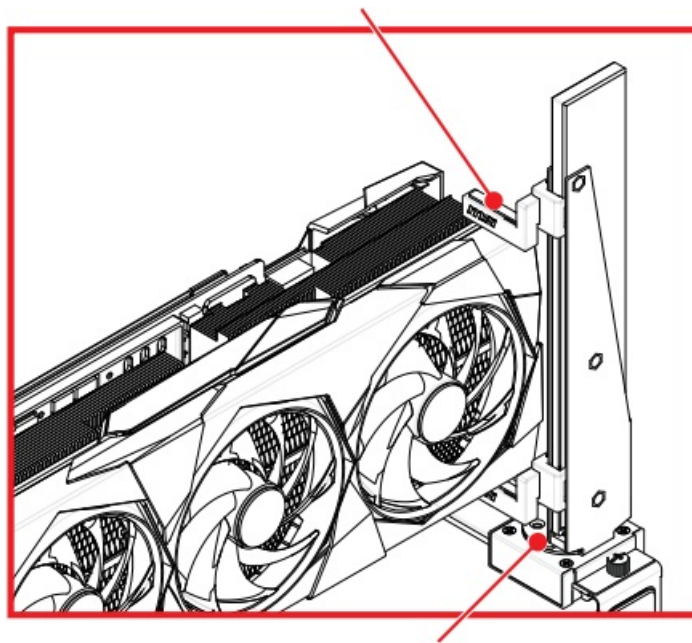
**GPU Support Arm Removal**
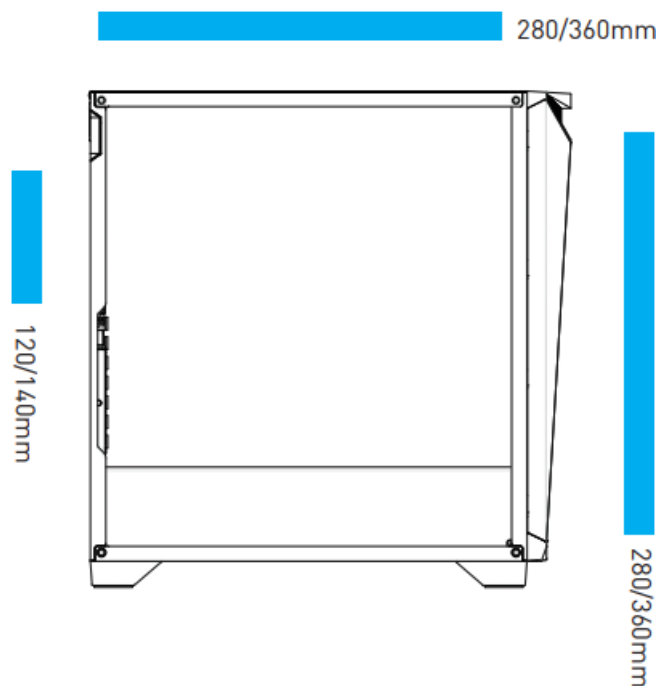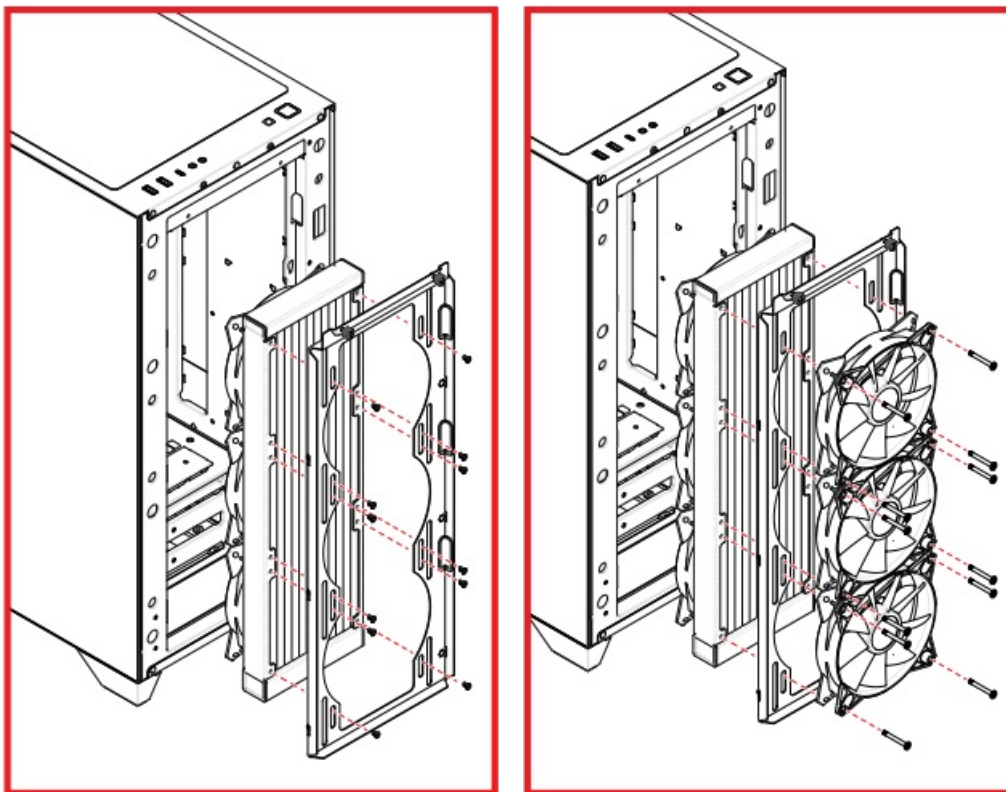
**Fan Compatibility and Setup**

**140mm x 2**

**120mm x 3**

**140mm x 1**

**120mm x 1**

**120mm x 3**

**140mm x 3**
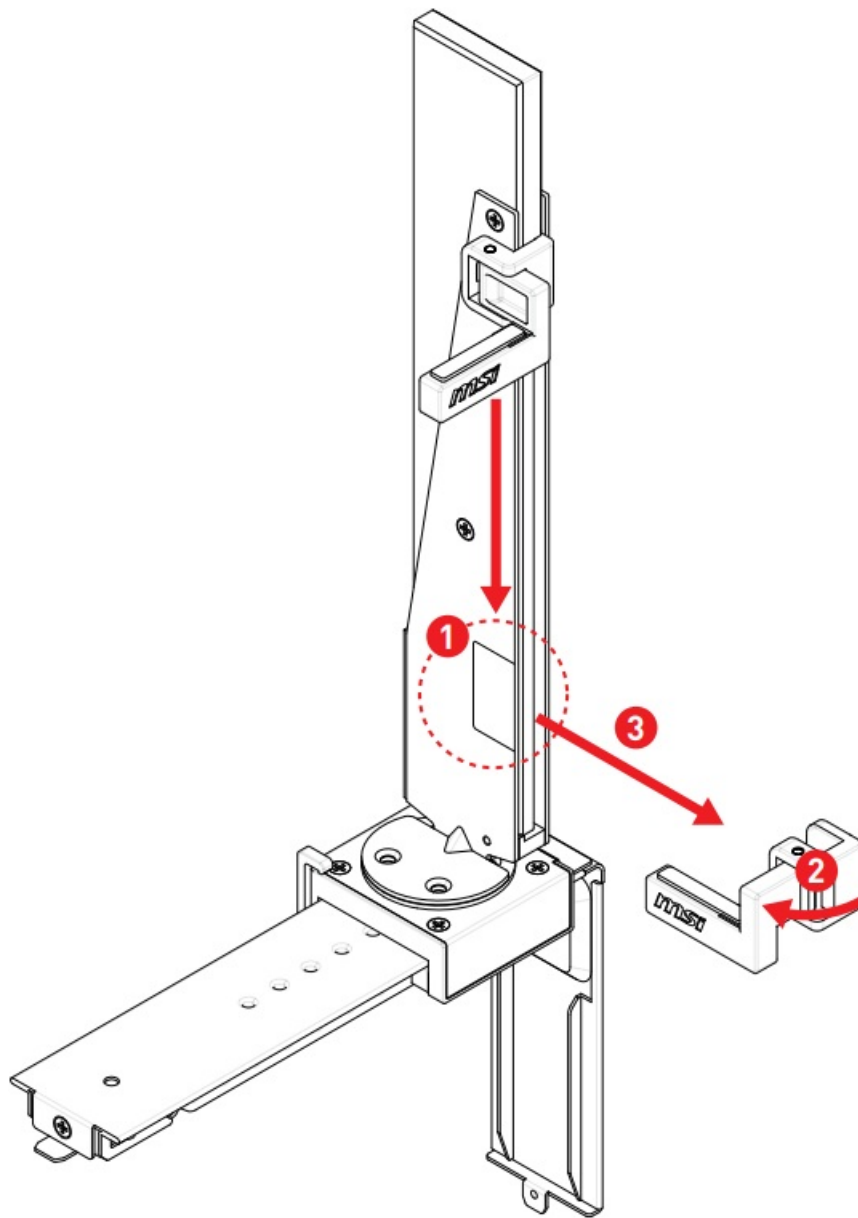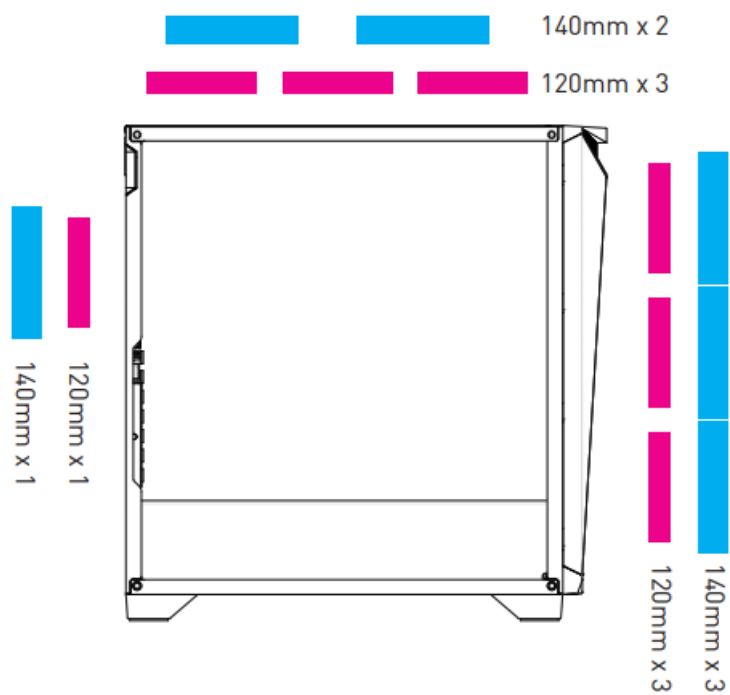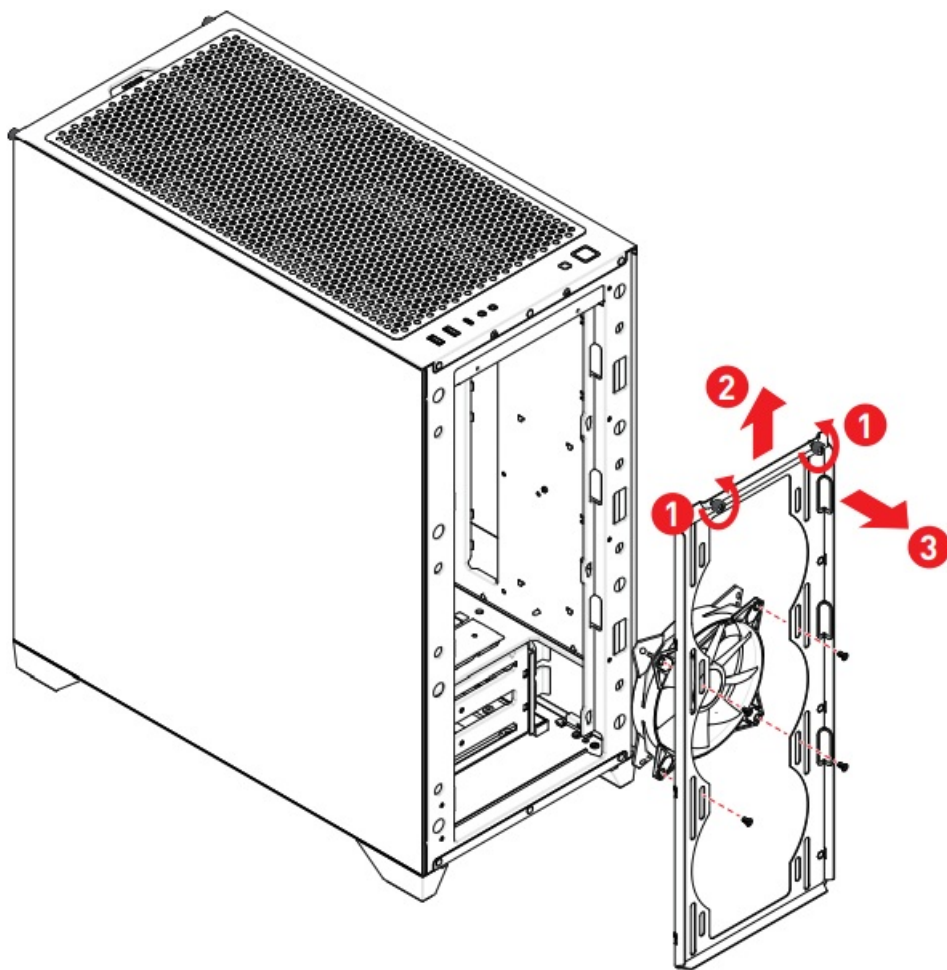
**Radiator Compatibility and Setup**

**360mm Radiator Configuration**     **Push-Pull Radiator Configuration**

280/360mm

120/140mm

280/360mm

## General Information

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**Revision History**

- Version 1.0, 2023/07, First release.



## Documents / Resources

| | |
|---|---|
| <br><br>**MPG Series<br>PC Case**<br><br>MPG GUNGNIR 300R AIRFLOW<br>MPG GUNGNIR 300R AIRFLOW<br>MPG GUNGNIR 300R AIRFLOW WHITE<br>MPG GUNGNIR 300R AIRFLOW LITE<br><br>User Guide | **[MSI MPG GUNGNIR 300R AIRFLOW MPG Series PC Case](#)** [pdf] Instructions<br>MPG GUNGNIR 300R AIRFLOW MPG Series PC Case, MPG GUNGNIR, 300R AIRFLOW MPG Series PC Case, MPG Series PC Case, PC Case, Case |

## References

- **[User Manual](#)**