



# **MPG Series**

## **PC Case**

MPG GUNGNIR 300R AIRFLOW

MPG GUNGNIR 300P AIRFLOW

MPG GUNGNIR 300R AIRFLOW WHITE

MPG GUNGNIR 300P AIRFLOW LITE

User Guide

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# 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>Rear: 1 x 120mm PWM ARGB Fan | Front: 3 x 120mm PWM ARGB Fans<br>Rear: 1 x 120mm PWM ARGB Fan | Front: 3 x 120mm PWM Fans (non-ARGB)<br>Rear: 1 x 120mm PWM Fan (non-ARGB) | Front: 3 x 120mm PWM Fans (non-ARGB)<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>* 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        |

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

## Expansion Slots

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

## Drive Bays

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

## I/O Ports and Buttons

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

## Chassis Clearances










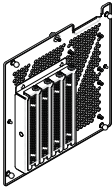
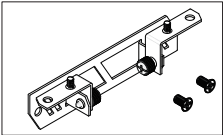
|                                  |   |
|----------------------------------|---|
| <b>Maximum CPU Cooler Height</b> | 175mm   |
| <b>Maximum GPU Length</b>        | 300R series:<br>360mm (GPU holder installed at right front)<br>340mm (GPU holder installed at right rear)<br><br>300P series:<br>338mm*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

|                         |                                       |
|-------------------------|---------------------------------------|
| <b>Radiator Support</b> | Front: 360mm, Top: 360mm, Rear: 140mm |
| <b>PSU Support</b>      | Above 220mm                           |


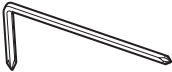






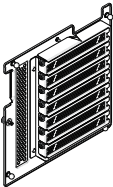

### Materials

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

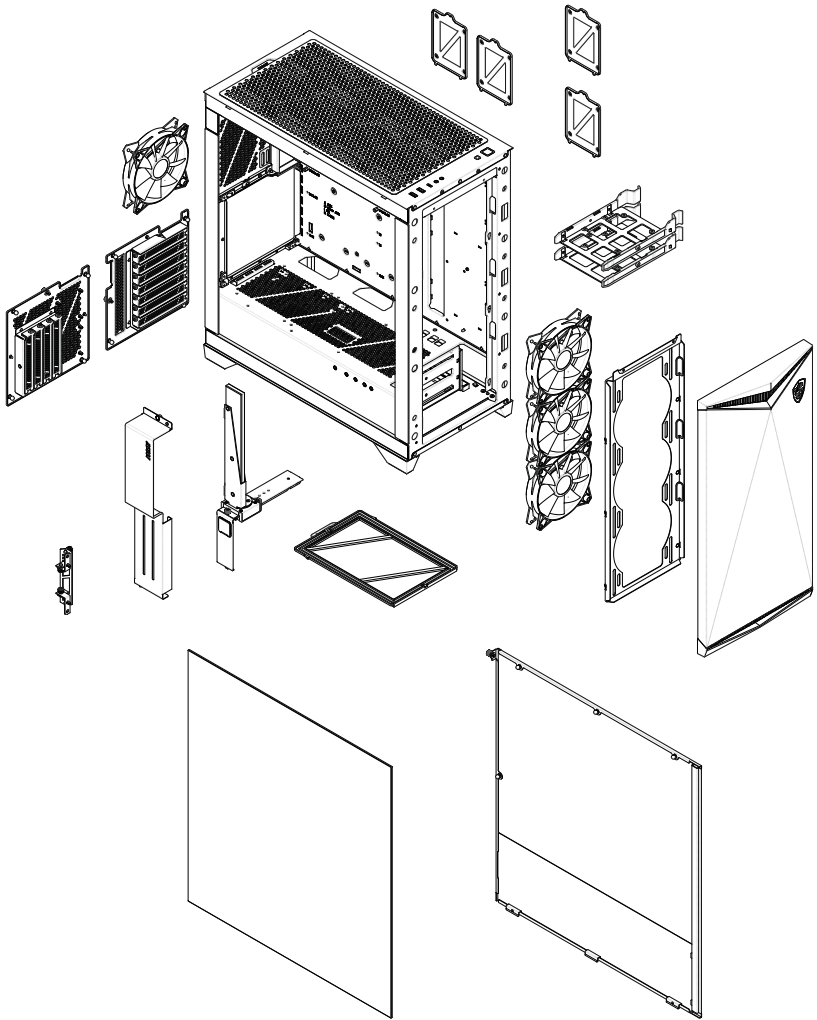
# Accessories (300R)

| Item  | Name / Q'ty   | Used for                                  |
|---|---|---|
|    | Cable ties<br>x10   | Cable management                          |
|    | L-shaped Screwdriver<br>x1  | Securing vertical graphics card & bracket |
|    | Screw M3 5mm<br>x35   | Motherboard / SSD / PCIe riser cable      |
|    | Screw #6-32 6mm<br>x4   | Securing PSU                              |
|    | Screw #6-32 6mm<br>x4   | Securing HDD                              |
|    | Screw #6-32 7.5mm<br>x8   | Securing liquid cooling radiator          |
|    | Screw #6-32 30mm<br>x12   | Securing liquid cooling radiator fan      |
|    | Stand-off #6-32 6.5mm<br>x2   | PCIe riser cable stand                    |
|   | Stand-off Mounting Tool<br>x 1  | Securing motherboard / PCIe riser cable   |
|  | Vertical graphics card bracket<br>x1  | Securing vertical graphics card           |
|  | 80mm/120mm fan mounting kit x1<br>(Bracket x1,<br>Screw Ø5 8mm x4,<br>Screw Ø9.5 14.5mm x2) | Securing 80mm/120mm fan                   |

# Accessories (300P)

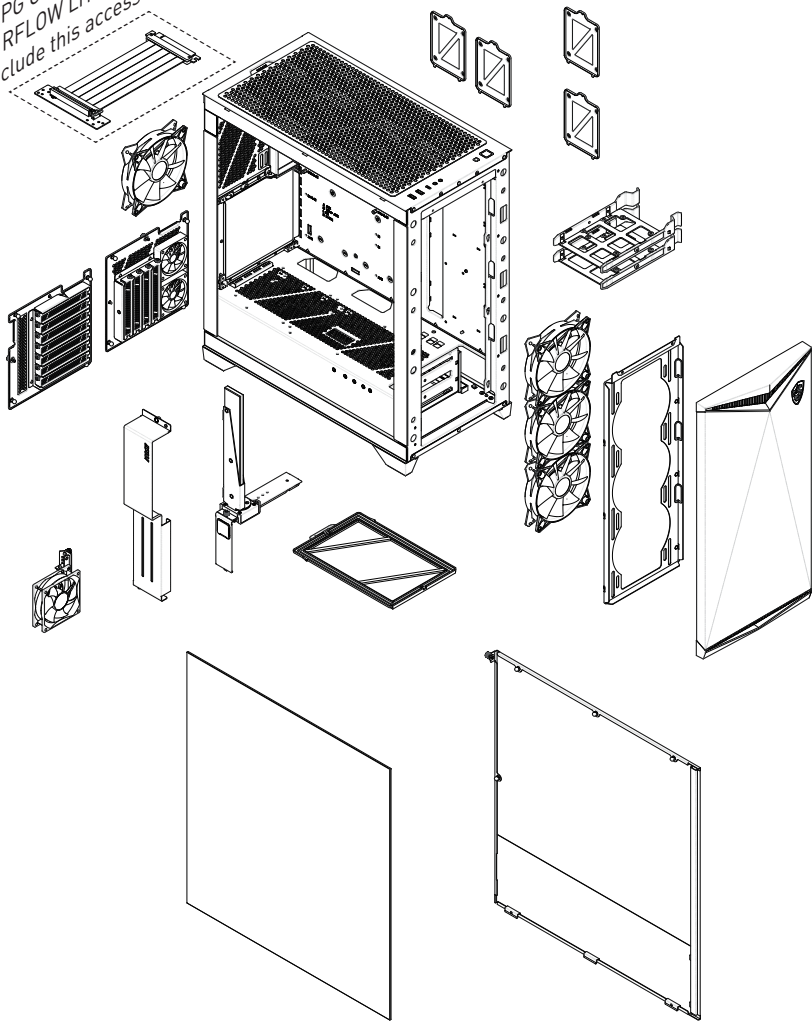
| Item  | Name / Q'ty                            | Used for                                  |
|---|--|---|
|    | Cable ties<br>x10                      | Cable management                          |
|    | L-shaped Screwdriver<br>x1             | Securing vertical graphics card & bracket |
|    | Screw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

# Case Features (300R)



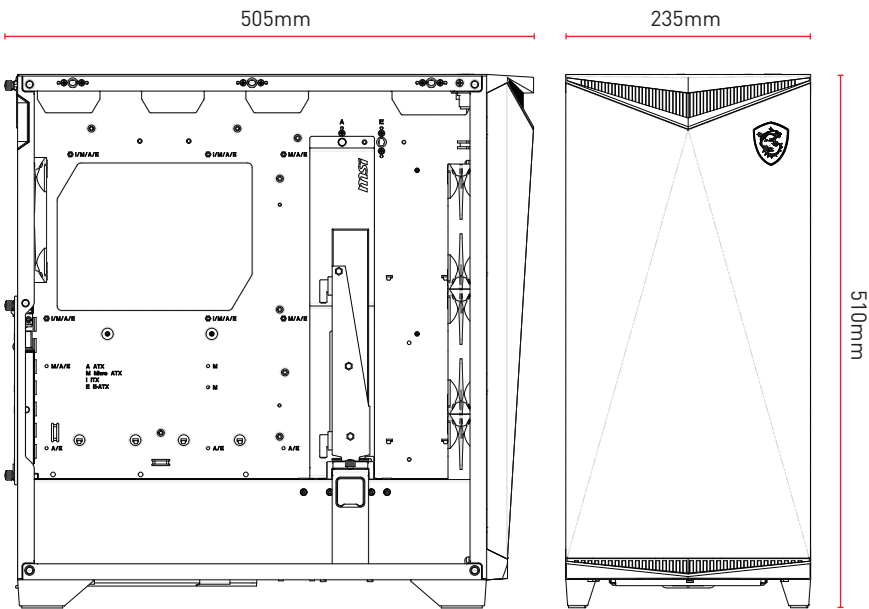
# Case Features (300P)

MPG GUNGNIR 300P  
AIRFLOW LITE does not  
include this accessory

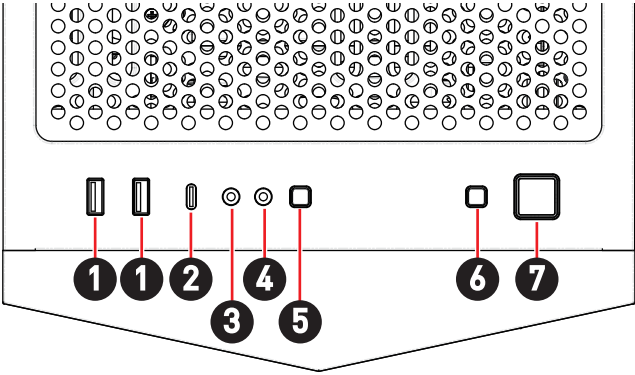




# Side and Front View

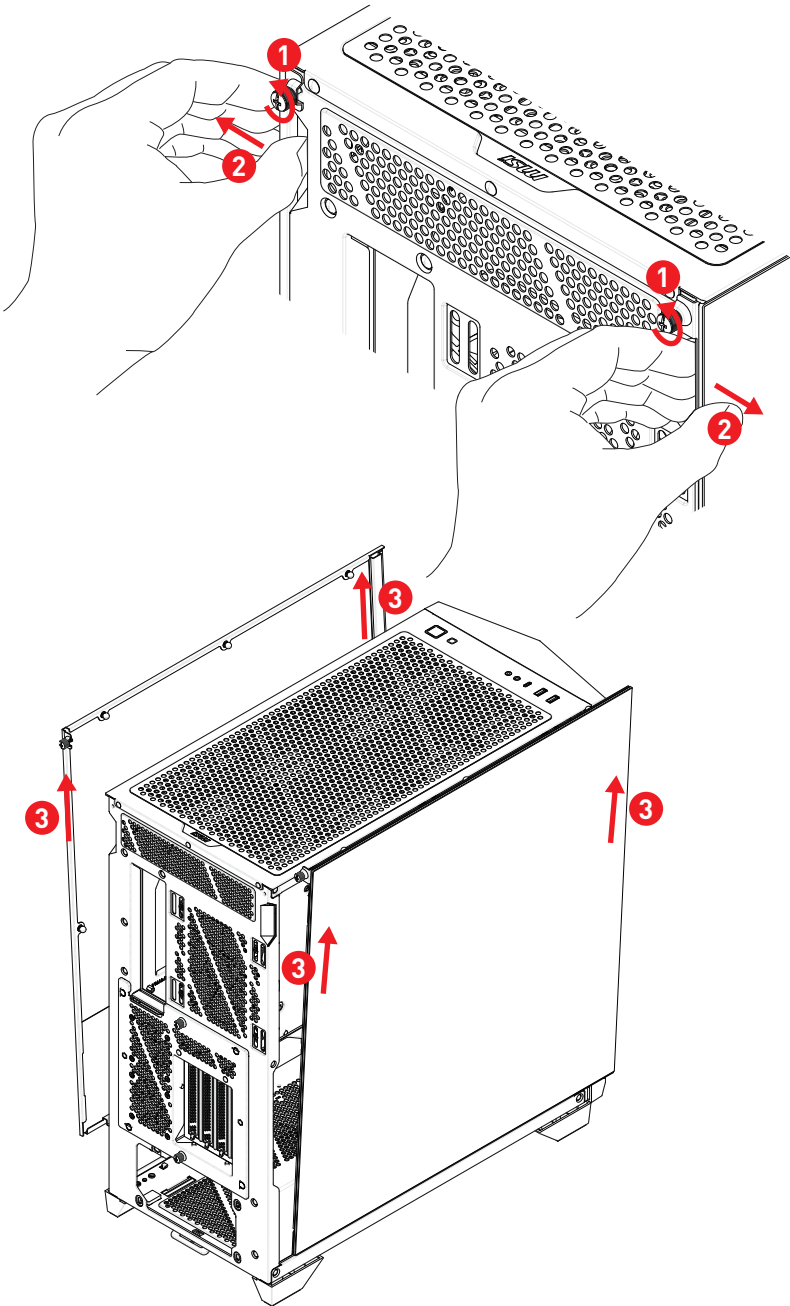


# I/O and Buttons

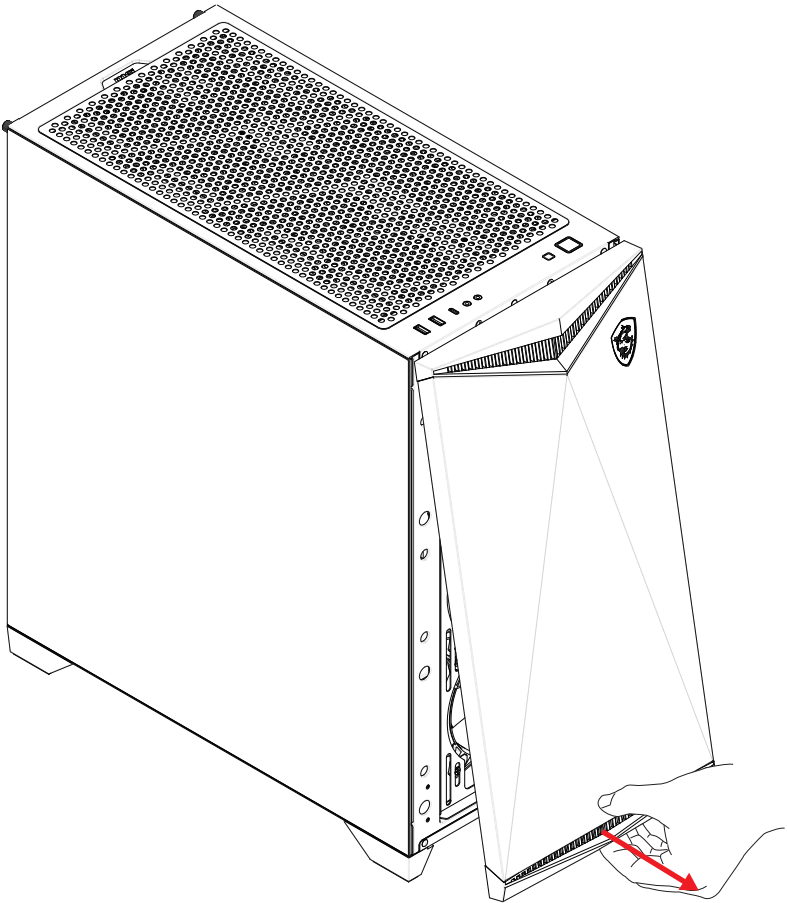


| Item | Description                                       |
|------|---|
| 1    | USB 3.2 Gen 1 5Gbps Type-A port                   |
| 2    | USB 3.2 Gen 2 10Gbps Type-C port                  |
| 3    | Microphone jack                                   |
| 4    | Audio jack  |
| 5    | LED switch button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

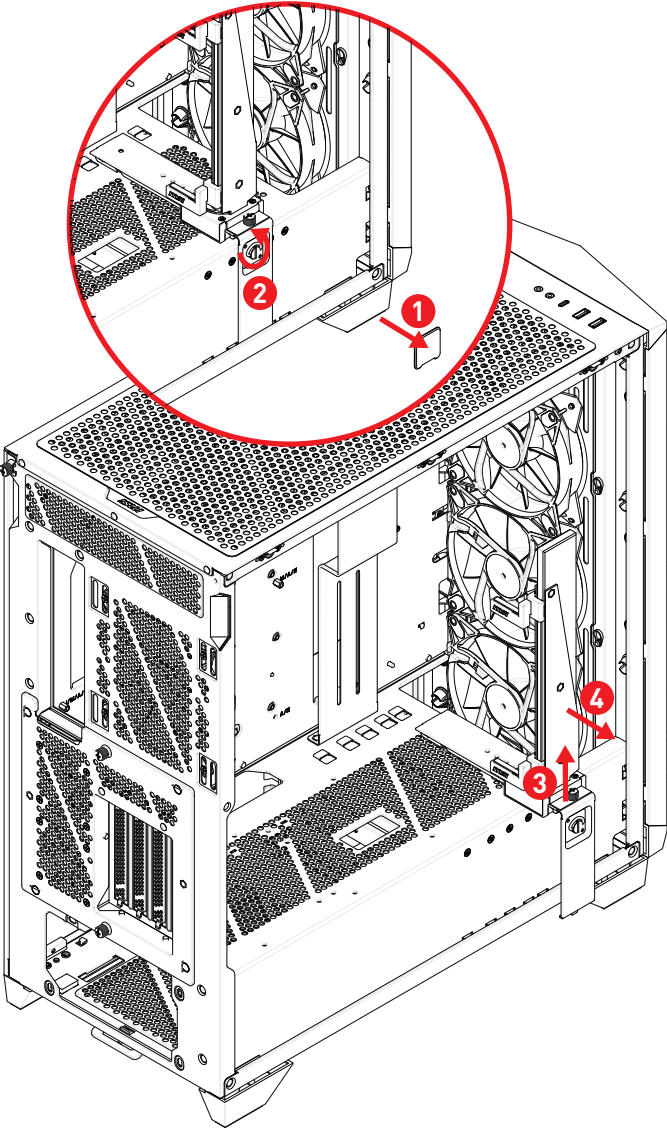
# Side Panel Removal



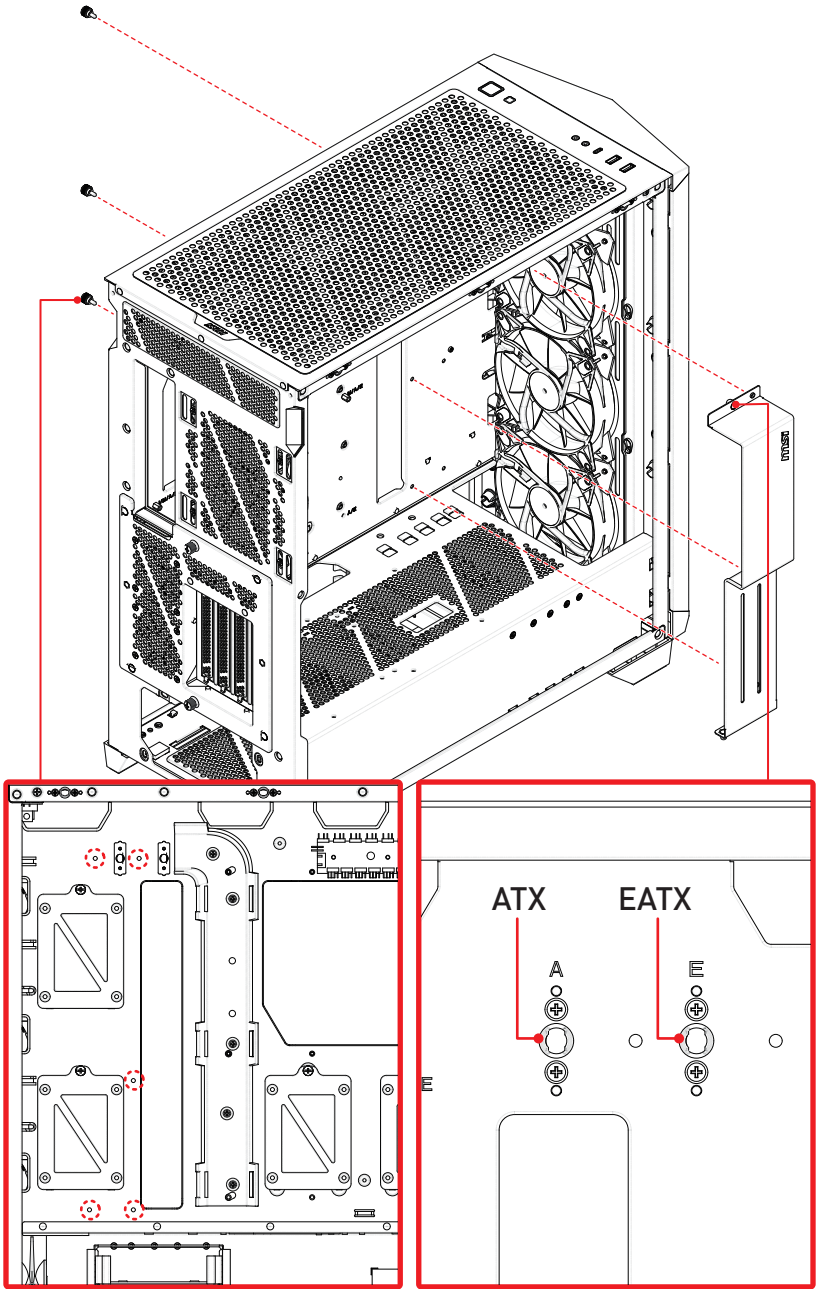
# Front Bezel Removal



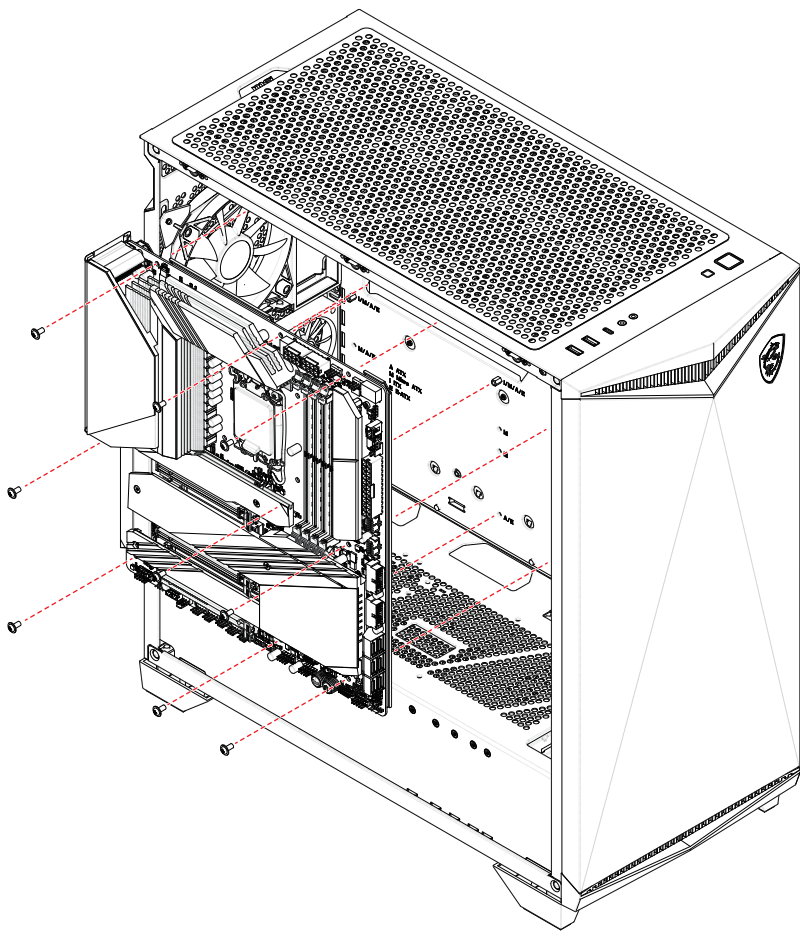
# GPU Holder Removal



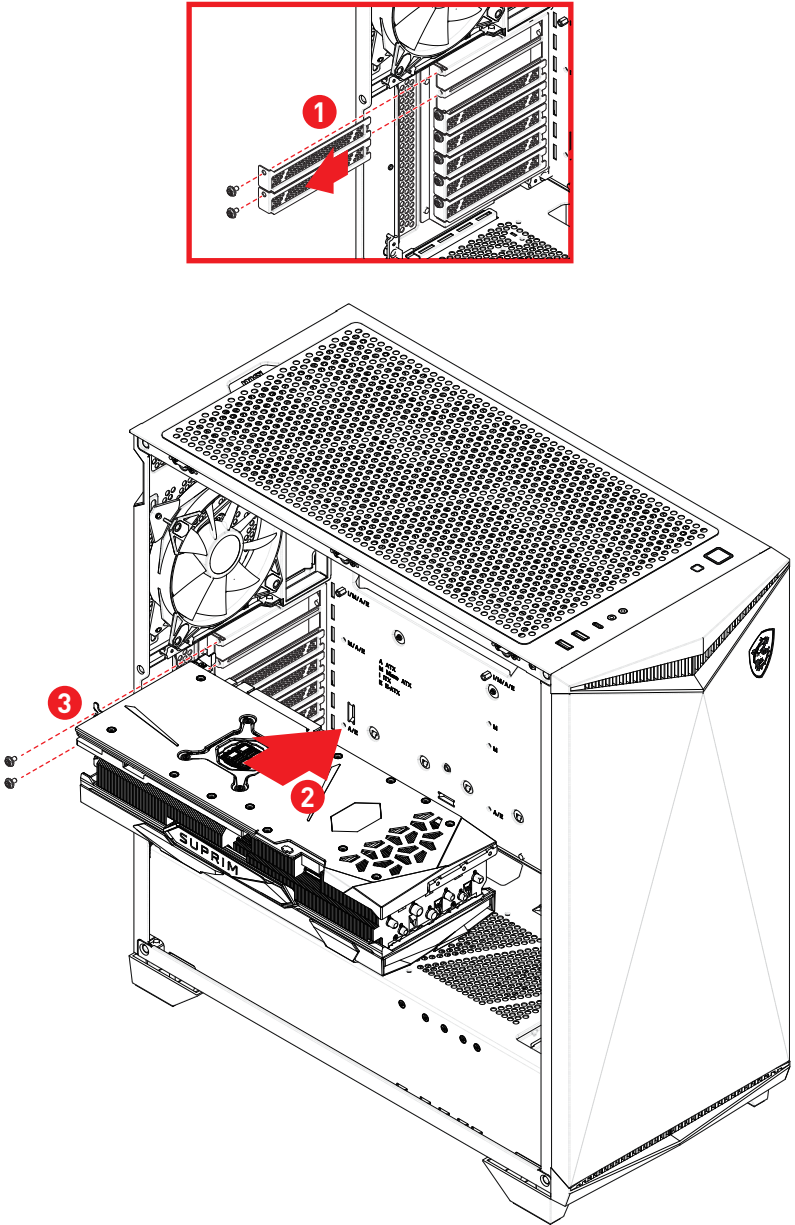
# Cable Cover Removal



# Motherboard Installation

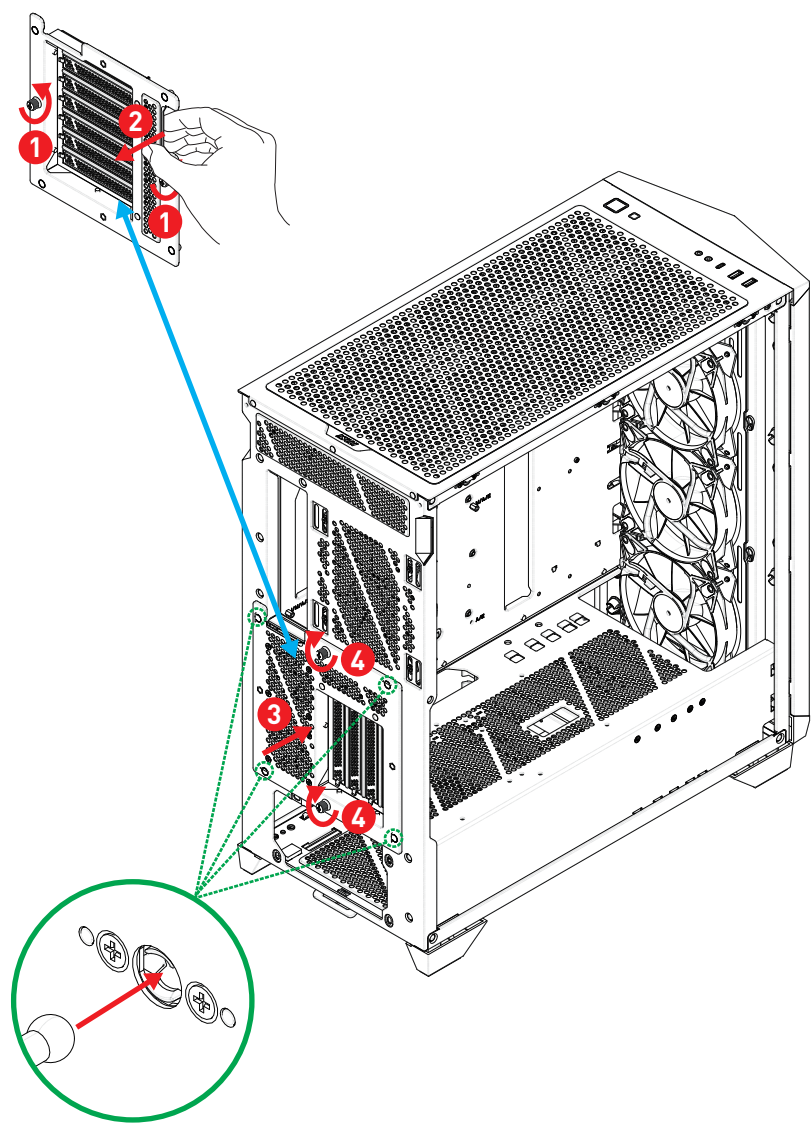


# Horizontal Graphics Card Installation

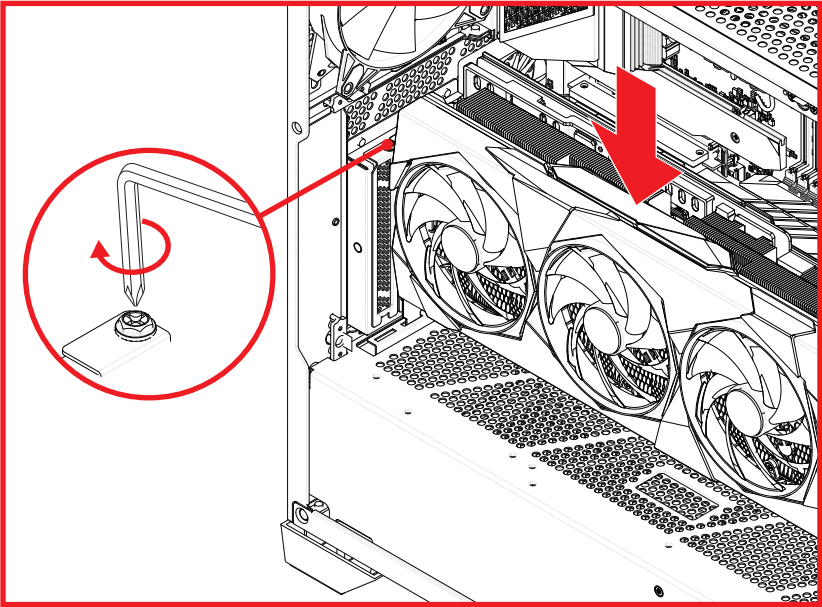
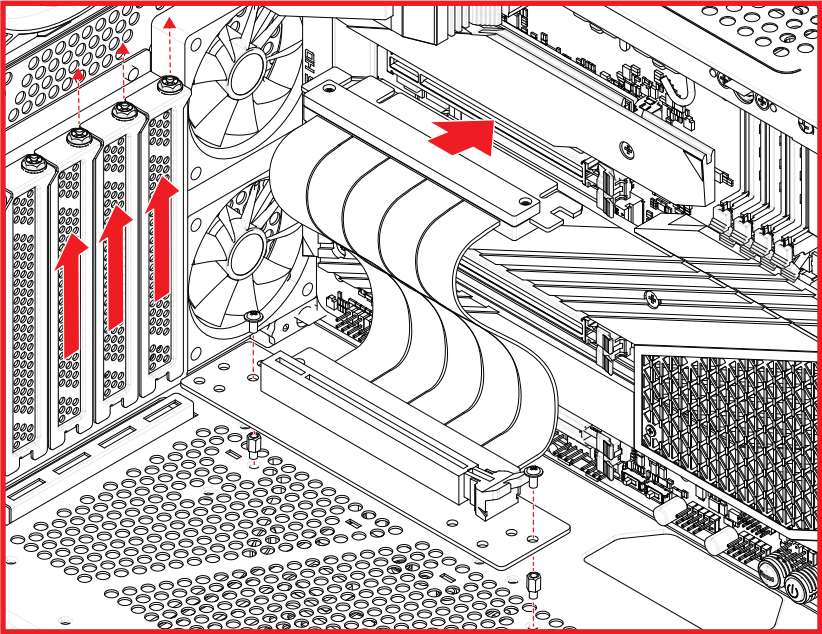




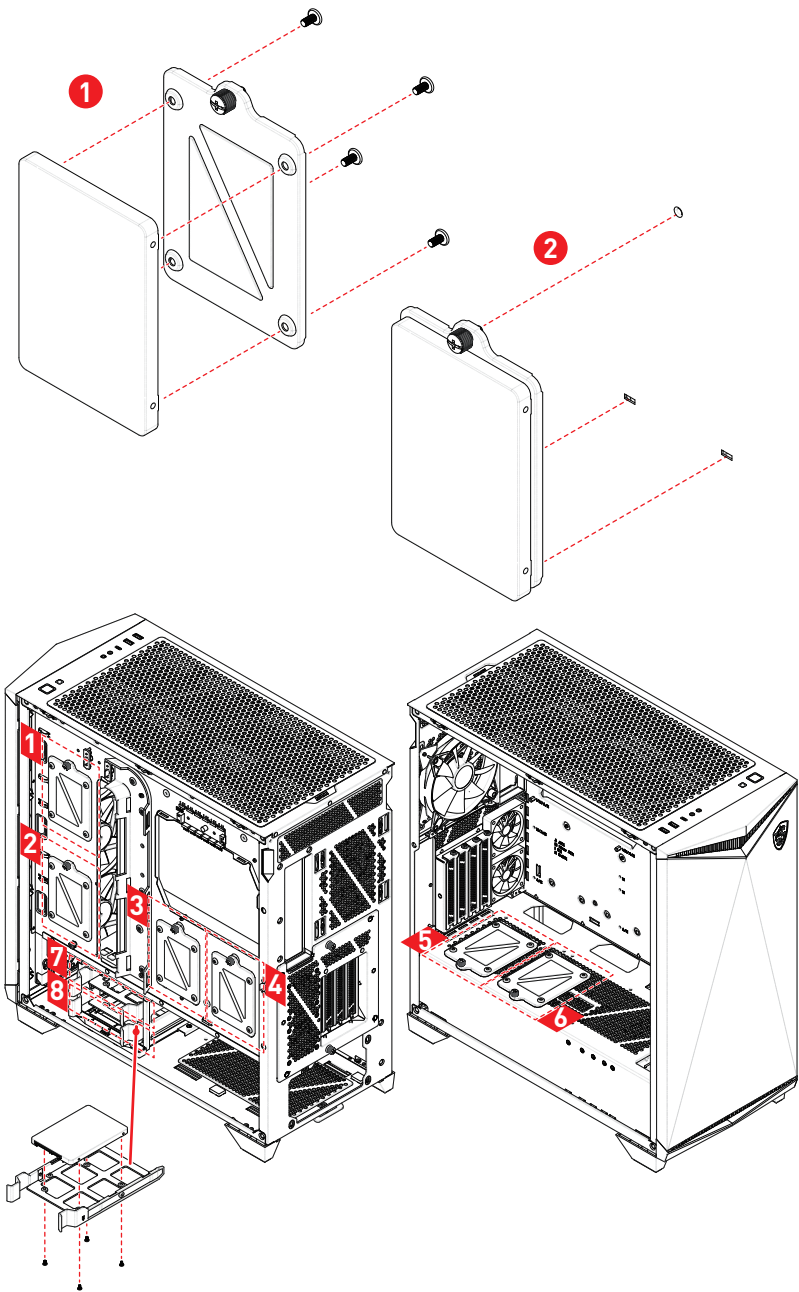
# Vertical Graphics Card Installation (1)



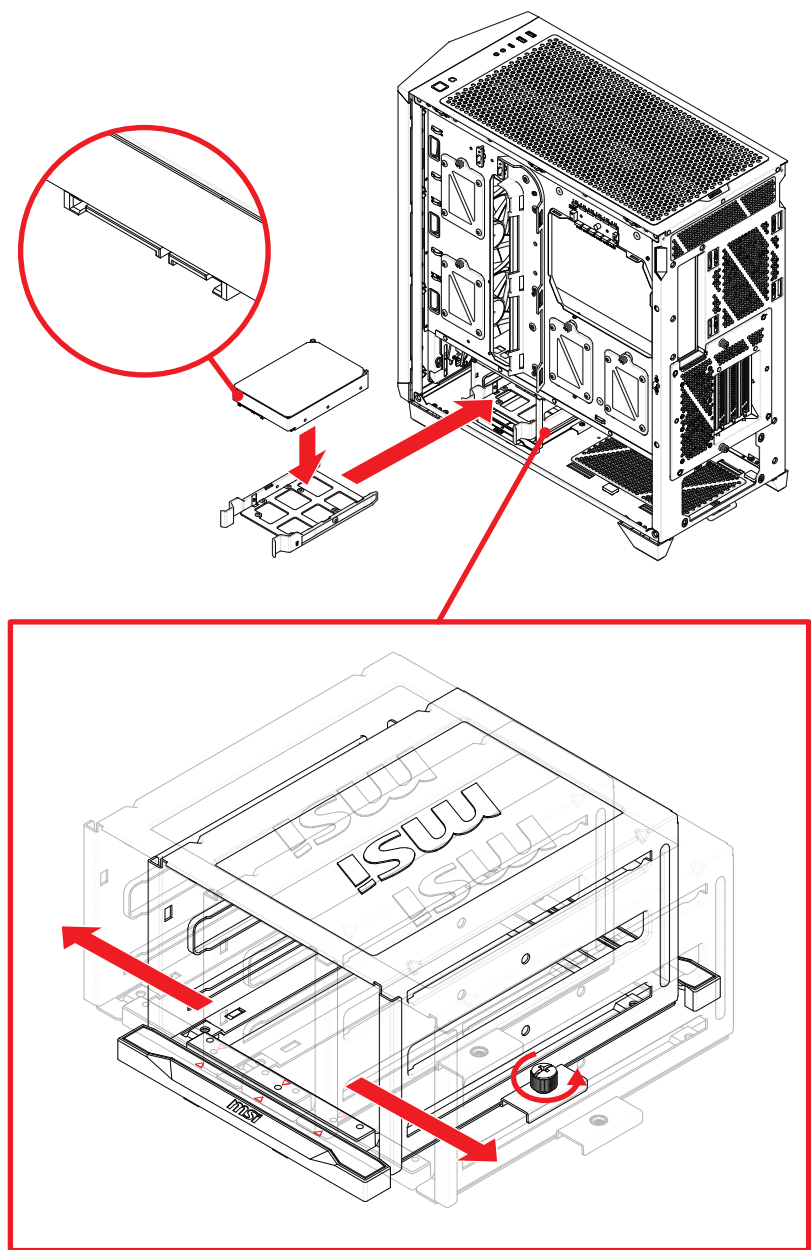
# Vertical Graphics Card Installation (2)



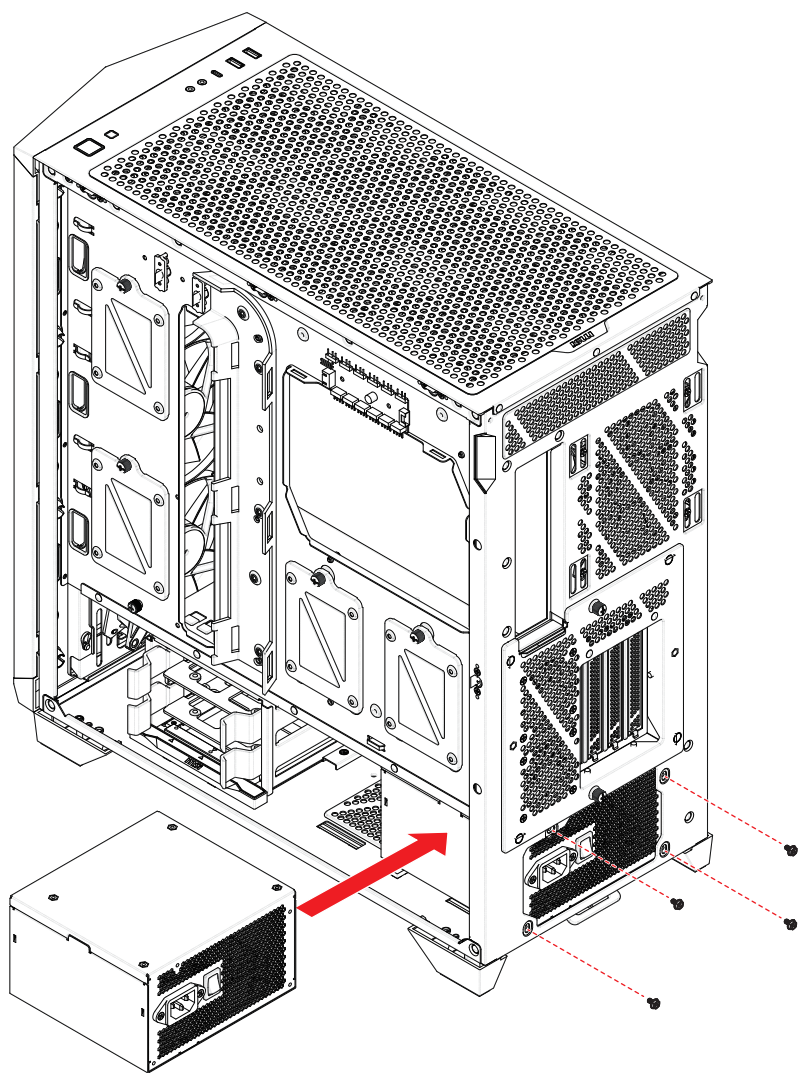
# SSD Installation



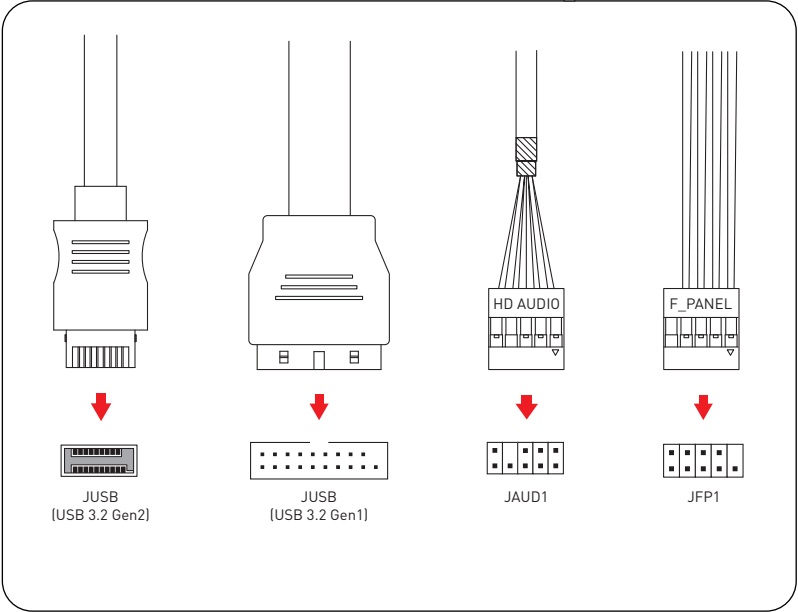
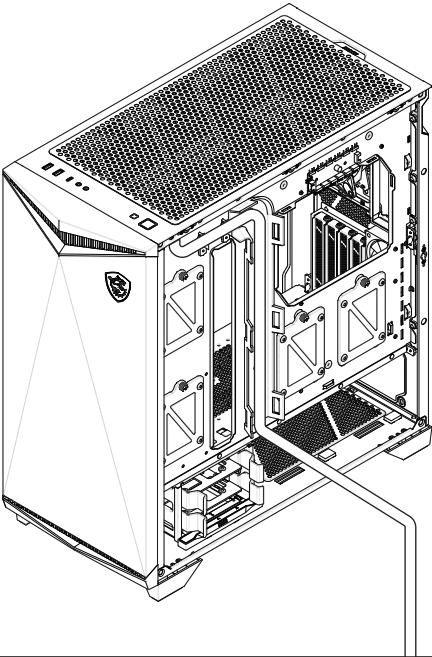
# HDD Installation



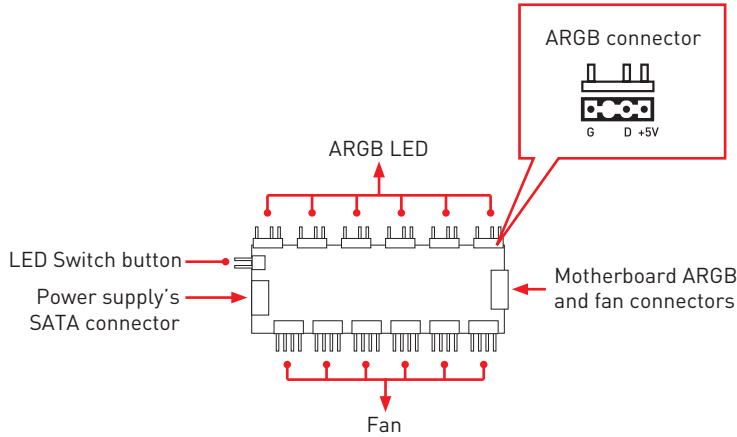
# PSU Installation



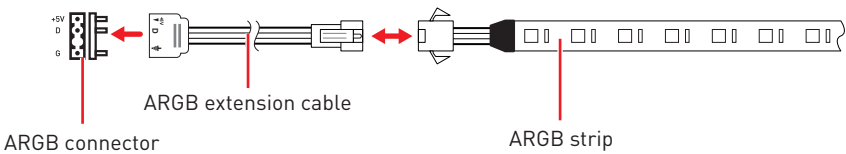
# Top Panel I/O Connection



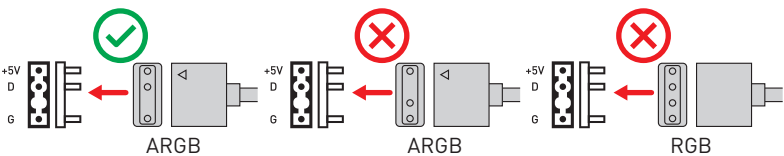
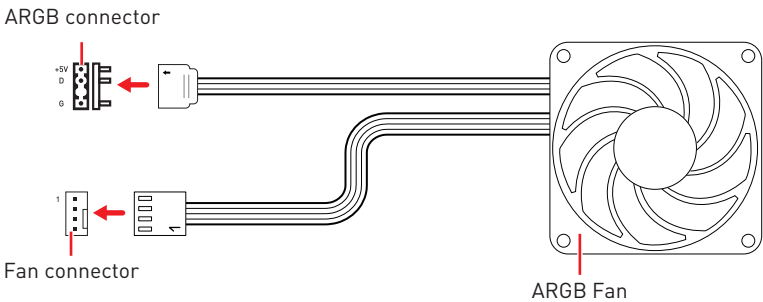
# Control Board Connection



## Addressable RGB LED Strip Connection



## Addressable RGB LED Fan Connection



## **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.

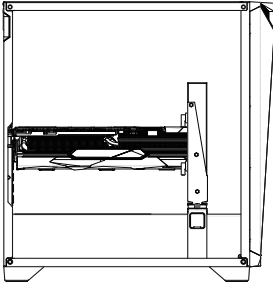
## **LED Effect Sequence**

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)  |

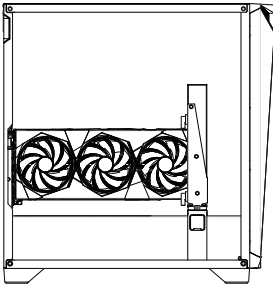


# Graphics Card Limitation



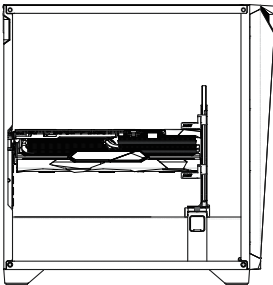
## Horizontal GPU and GPU holder at right front Installation

- 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



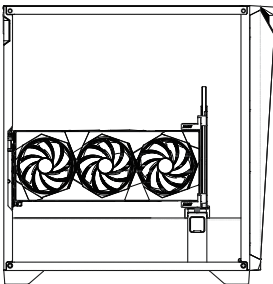
## Vertical GPU and GPU holder at right front Installation

- 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

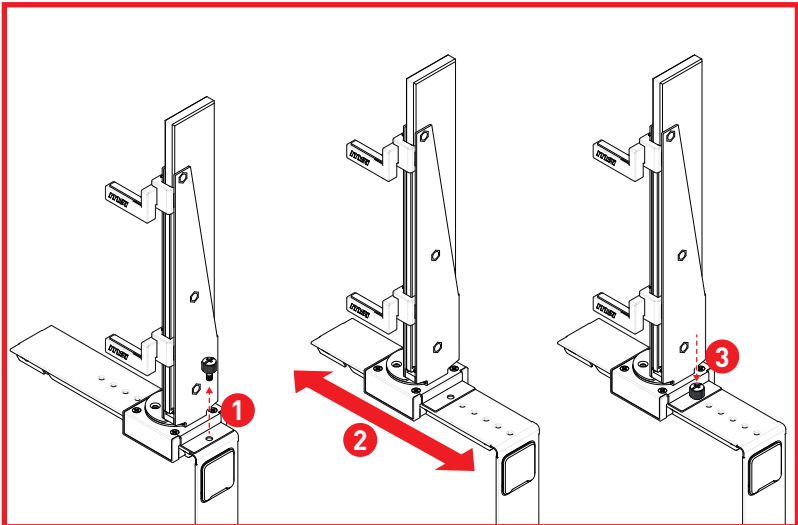
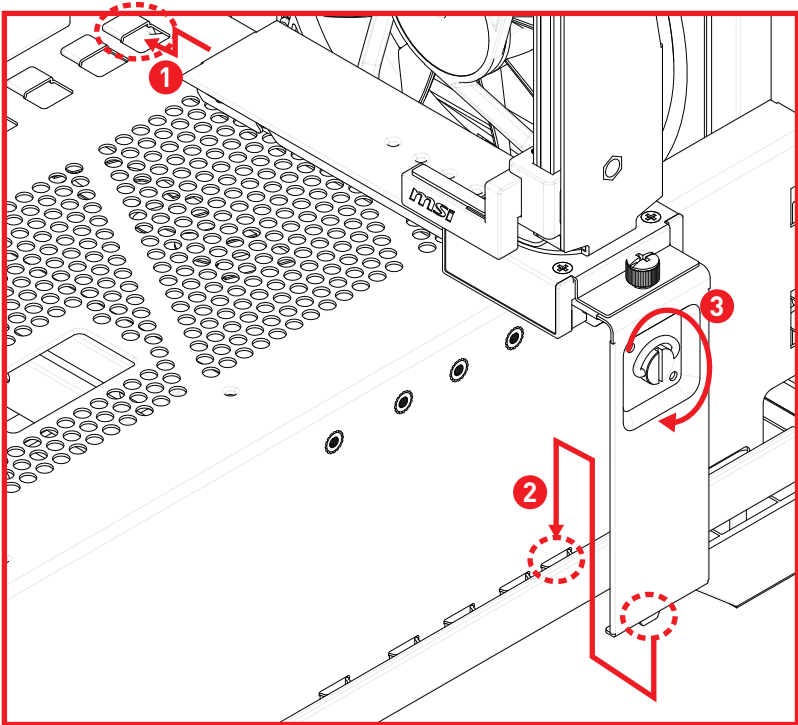
- GPU Length:
  - Maximum up to 340mm (300R)
  - Maximum up to 338mm (300P)
- GPU Width (Horizontal): Maximum up to 142mm
- GPU Thickness: Maximum up to 80mm



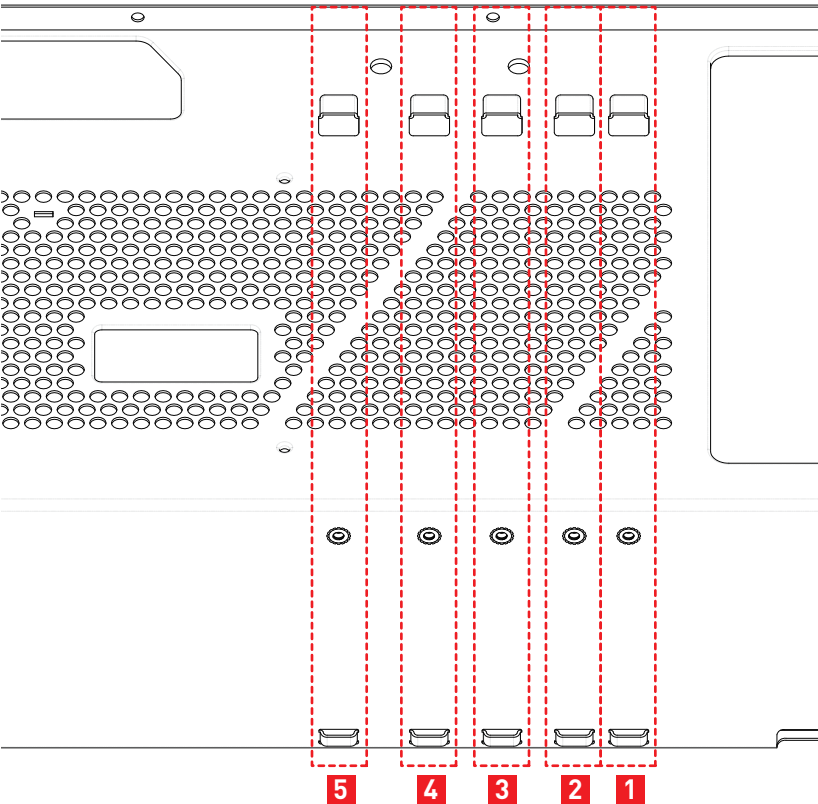
## Vertical GPU and GPU holder at right rear Installation

- 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

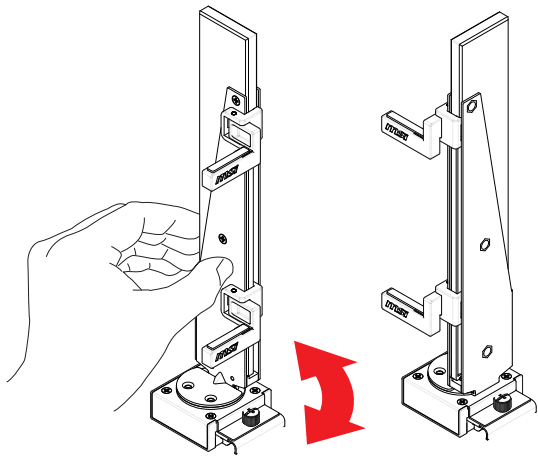
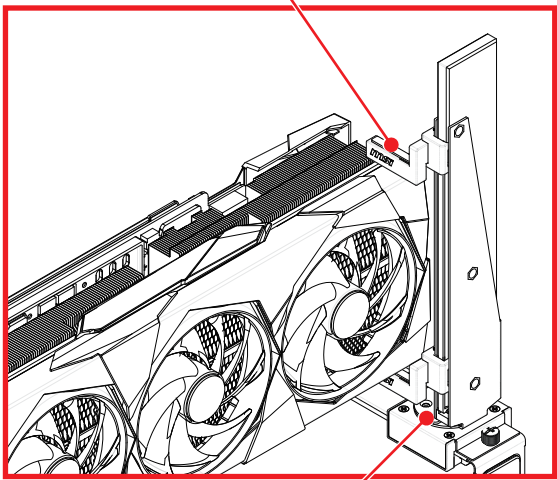
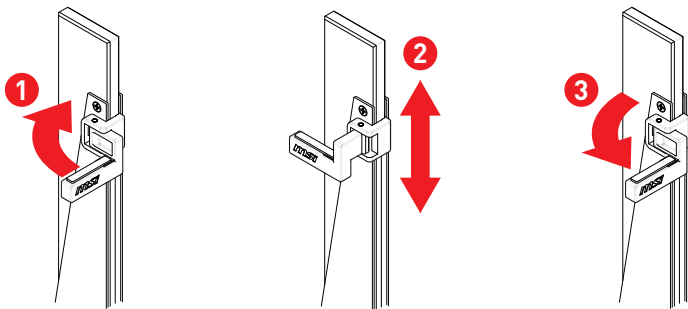


# GPU Holder Position

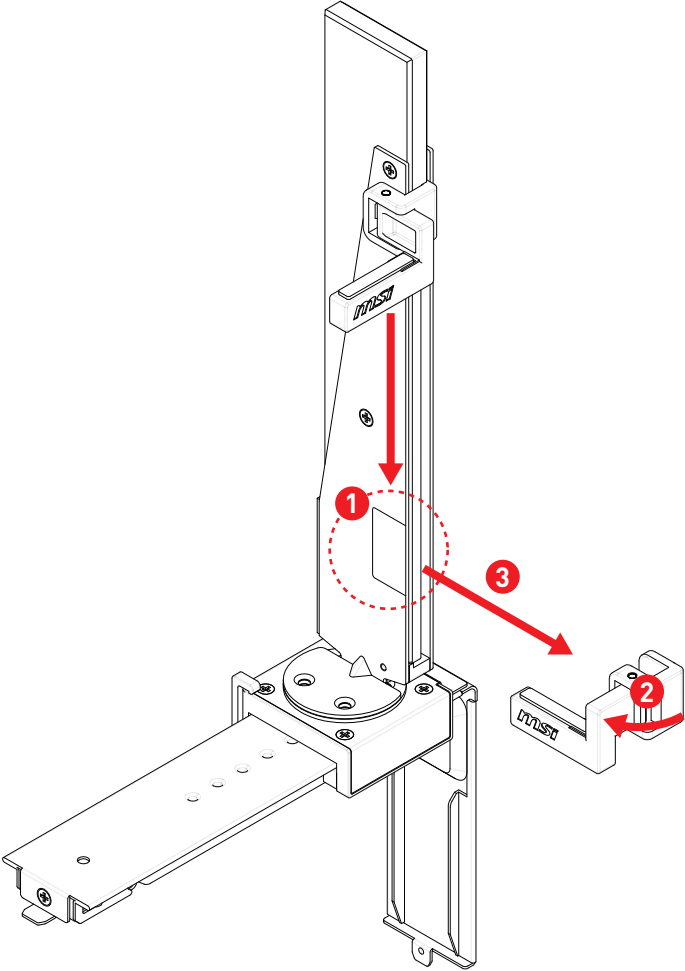


| GPU Holder Position | Maximum GPU Length |
|---------------------|--------------------|
| Position 1          | Less than 340mm    |
| Position 2          | Less than 330mm    |
| Position 3          | Less than 310mm    |
| Position 4          | Less than 290mm    |
| Position 5          | Less than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

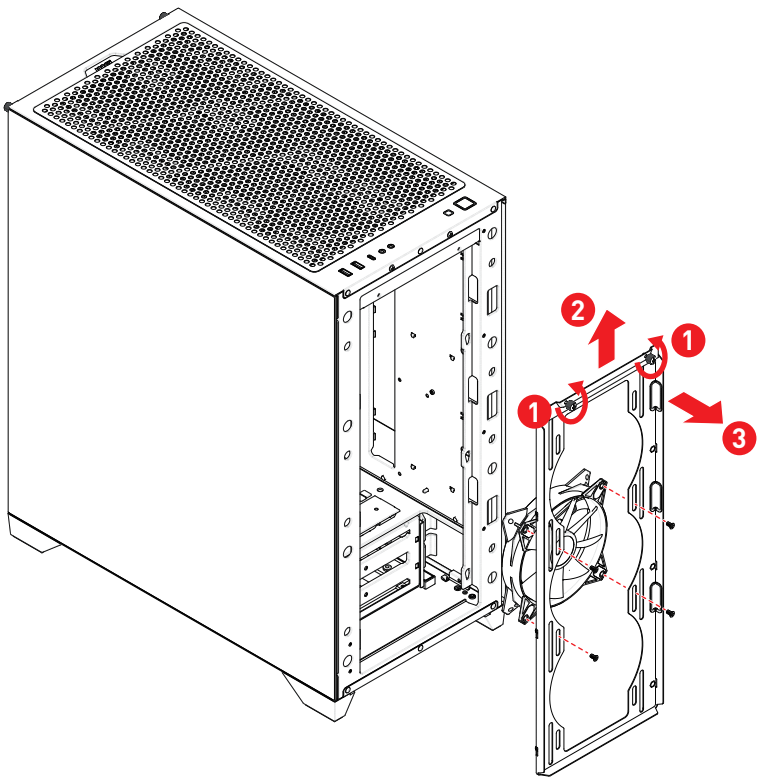
# GPU Holder Adjustment



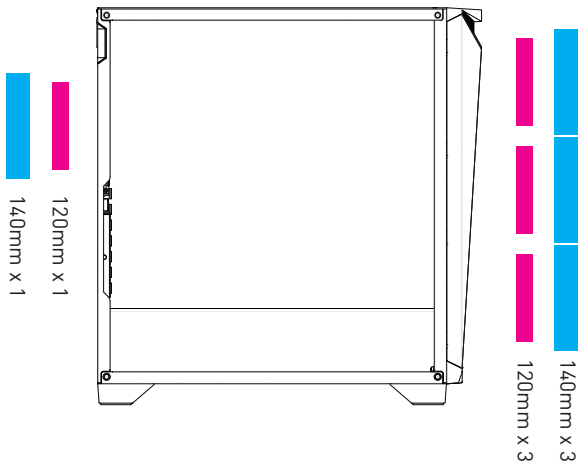
# GPU Support Arm Removal



# Fan Compatibility and Setup

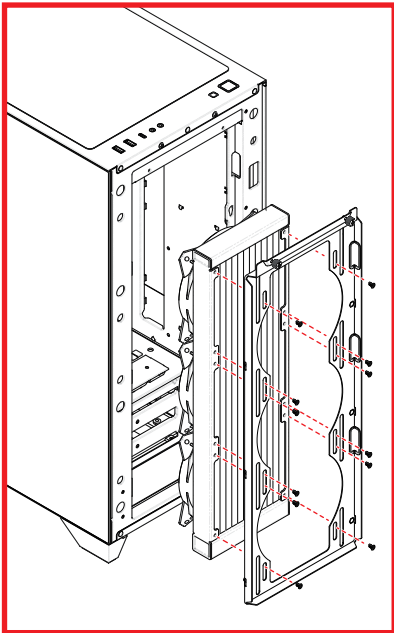


- 140mm x 2
- 120mm x 3

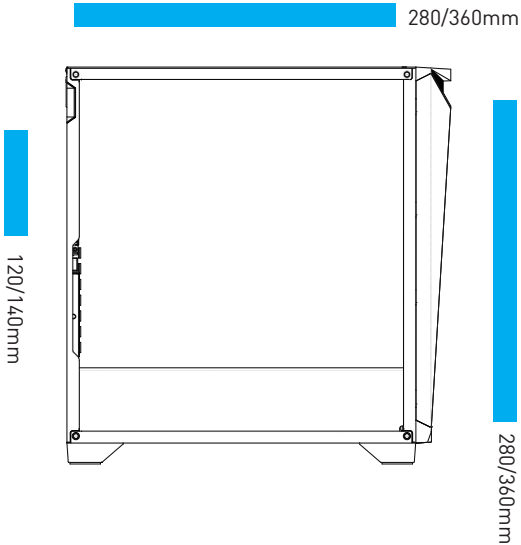
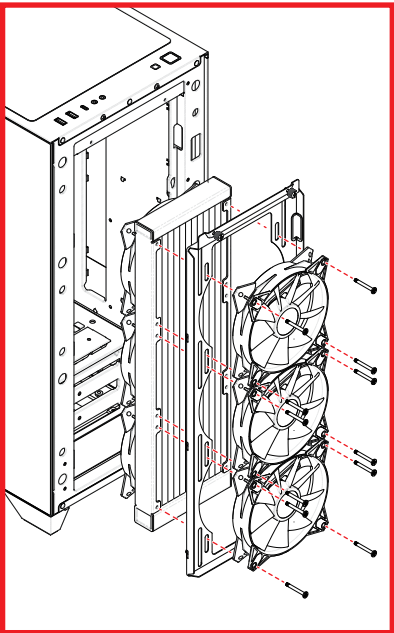


# Radiator Compatibility and Setup

360mm Radiator Configuration



Push-Pull Radiator Configuration



# General Information

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## Revision History

- Version 1.0, 2023/07, First release.

