GAMEMAX

DIAMOND CP

USER MANUAL

°C **COC (Cooling & Overclocking)**   **Hardware Anti-Fever**

SPECIFICATION

| Model No.	Diamond CP
Materials	Chassis 0.5mm SPCC, tempered glass on left side panel
Motherboard support	E-ATX/ATX/M-ATX/ITX
PSU type	ATX PSU (Bottom located)
TOP panel I/O ports	USB3.0*1+USB2.0*1, HD Audio
Drive Bays	3.5" HDD*2 + 2.5" SSD*2
Expansion Slots	7 slots , Support up to 340mm (Max.) VGA card
CPU Cooler Height	170mm
Fan Cooling	Front: 3*12cm or 2*14cm Fans(Optional)
	Top: 2*12cm Fans(Included)
	Rear: 1*12cm Fan(Included)
	PSU Cover: 2*12cm Fans(Optional)
	M/B Plate: 1*COC Turbo Fan(Included)
Liquid Cooling	Front: 120/140/240/280mm liquid cooling
	Top: 120/140/240mm liquid cooling
	Rear: 120mm liquid cooling
Chassis size	(L)360 x (W)210 x (H)440mm
Case size	(L)421 x (W)210 x (H)460mm
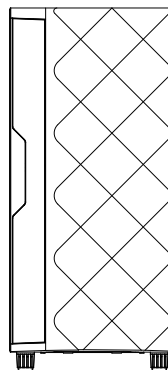
Front
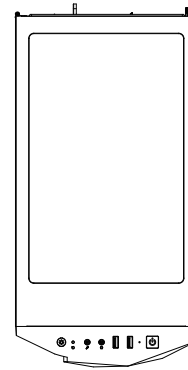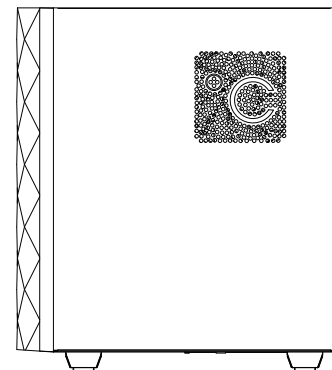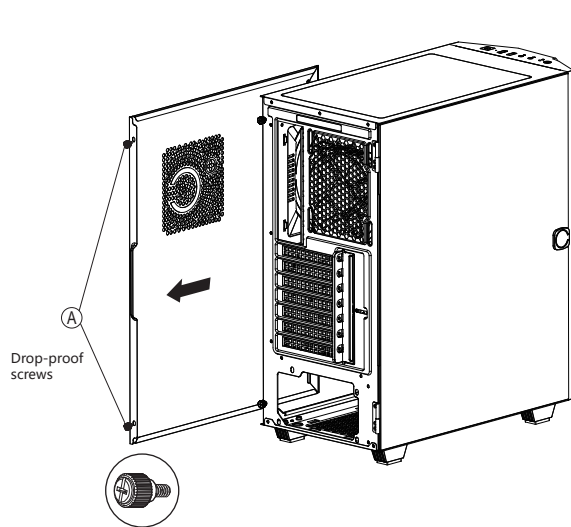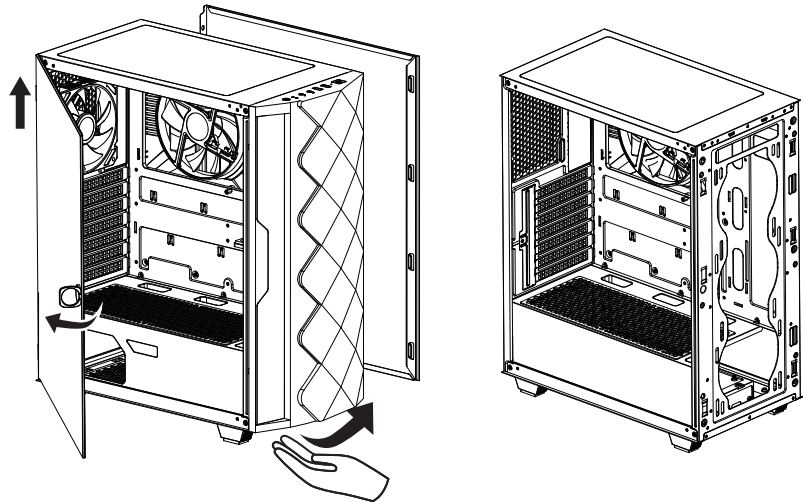
Top
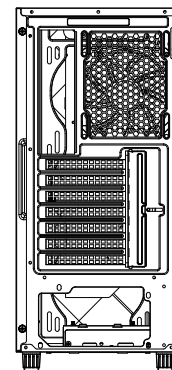
Rear
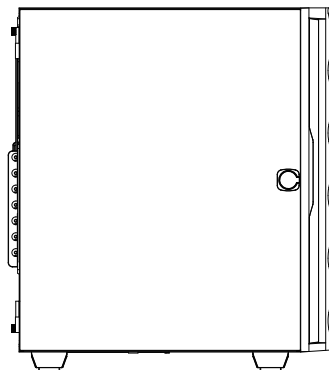
Left side

Right side

SIDE PANEL INSTALLATION
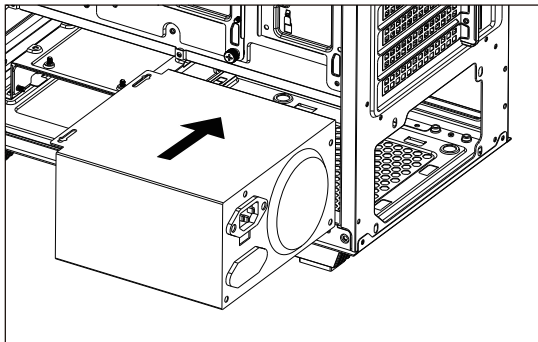

Drop-proof screws

A

Loose the drop-proof screws A, pull out the right side panel toward to the arrowhead direction.
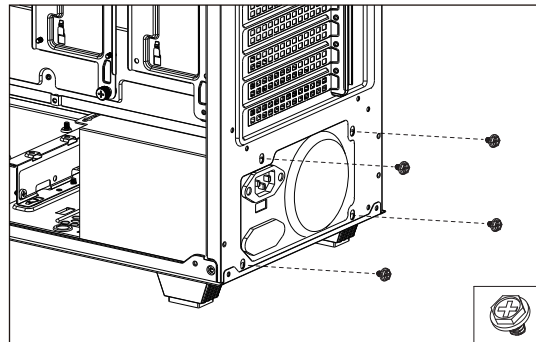
Open left side panel toward to arrowhead direction; Put hand into bottom of front panel, then you can pull up it.
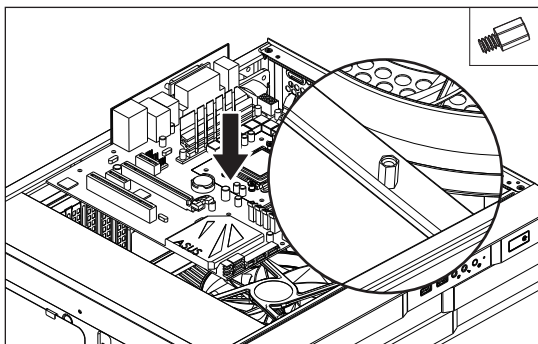
POWER SUPPLY INSTALLATION
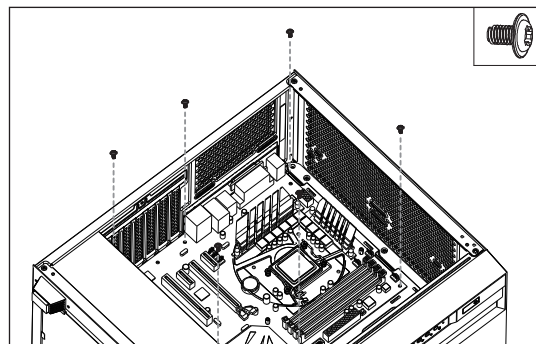

Insert PSU from left side

Secure with screws

MOTHERBOARD INSTALLATION

Put M/B on right position of chassis which preinstalled iron screws.

Use the provided standoffs and screws to secure the motherboard.

EXPLOSIVE VIEW

1. Chassis
2. Left glass side panel
3. Right side panel
4. Front panel
5. PSU cover
6. 1*120mm fan on the rear
7. 2*120mm fans on the top
8. HDD bracket
9. SSD bracket
10. Magnetic dust filter on the top
11. Dust filter on the bottom
12. VGA card bracket
13. COC Turbo Fan
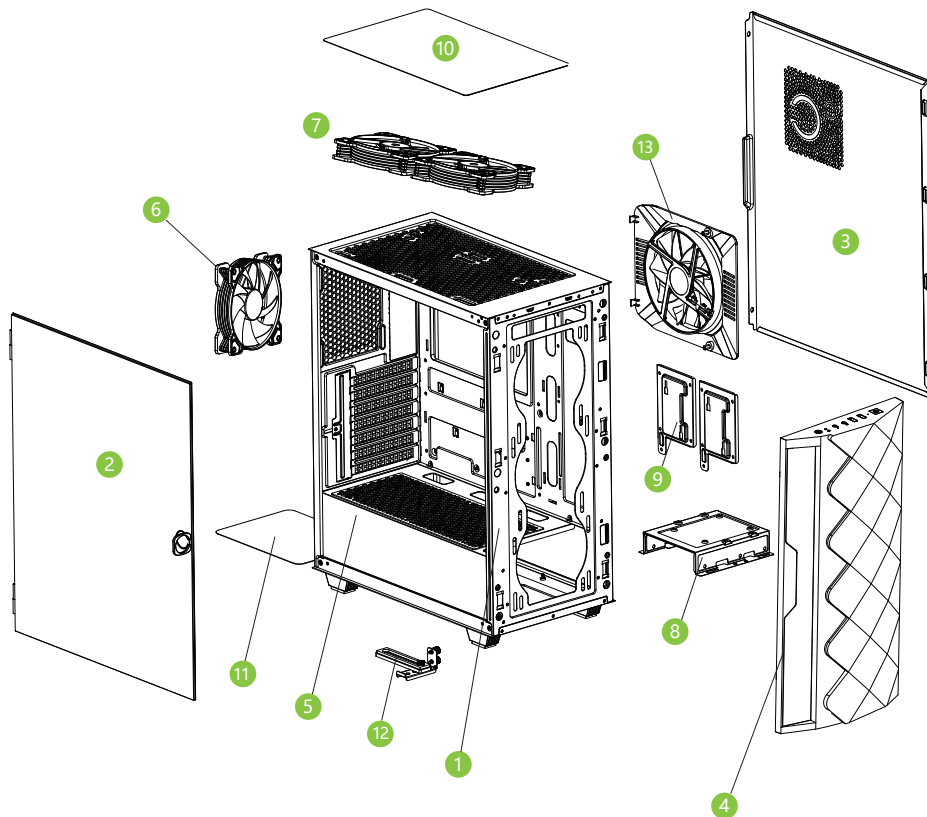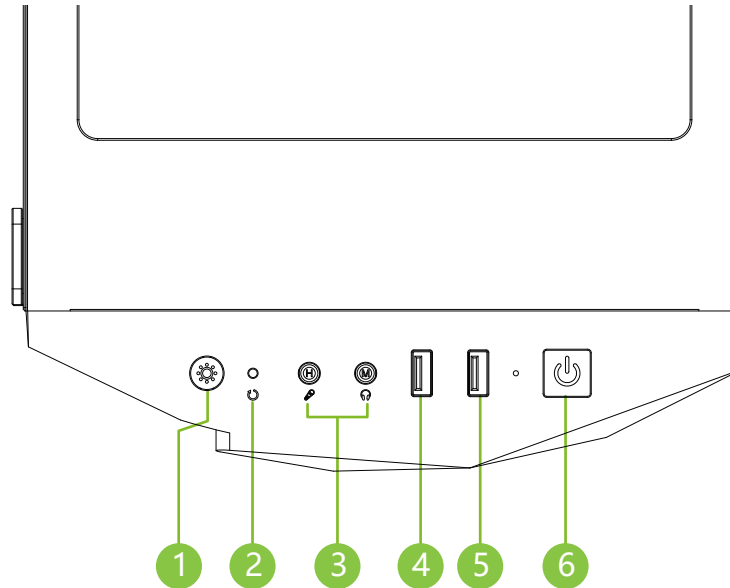
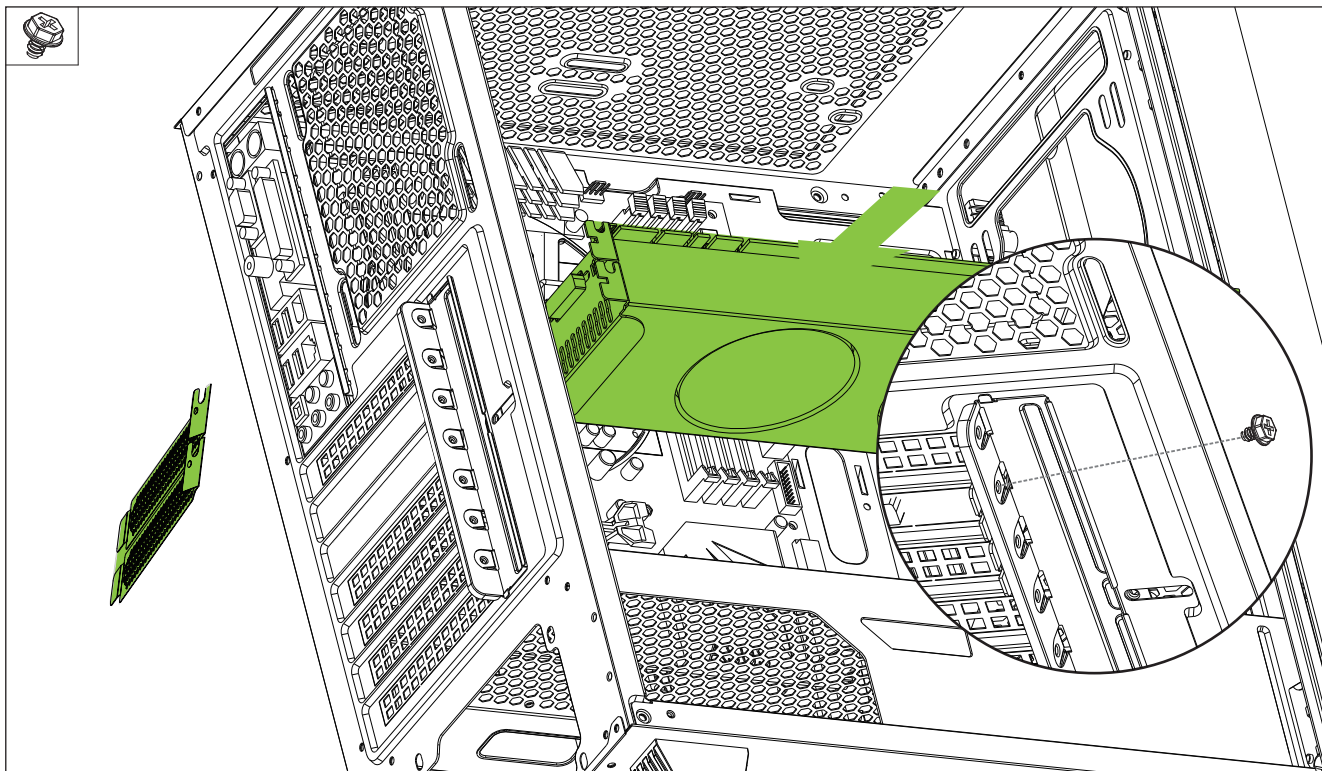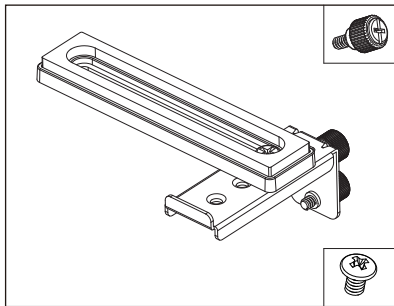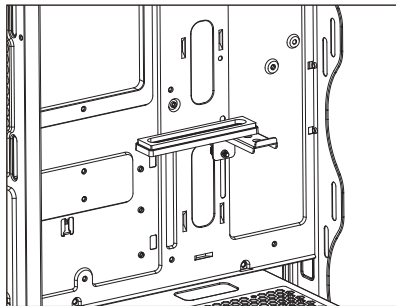| 1	Light modes control buttom	2	Reset button	3	HD Audio
4	USB 2.0	5	USB 3.0	6	Power Switch

VGA CARD INSTALLATION

Remove the PCI slot protection cover. Install the graphics card and secure it with a screw.
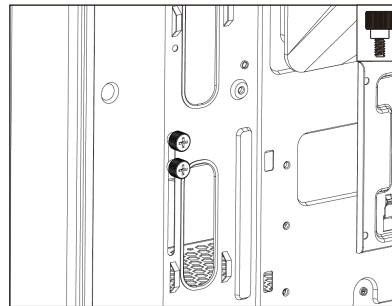
VGA CARD HOLDER INSTALLATION
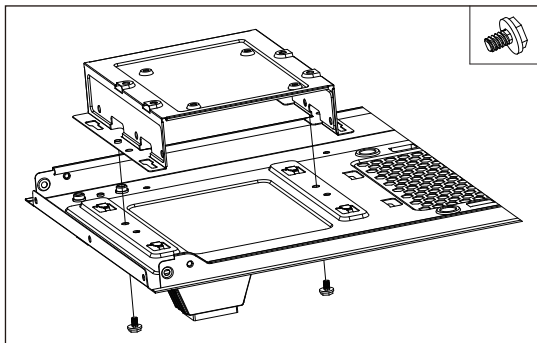
A. VGA Card Holder

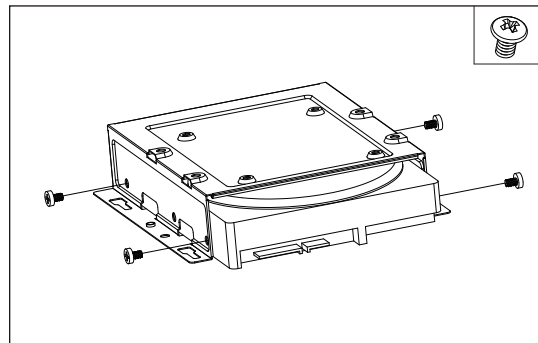B. Put the holder into the situable position on the motherboard plate according to the VGA

C. Fix the screws at the rear side of the motherboard plate
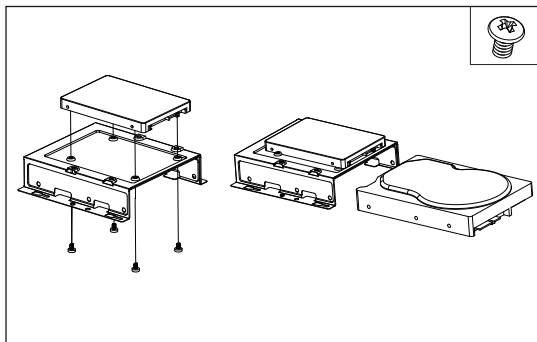
HDD AND SSD INSTALLATION
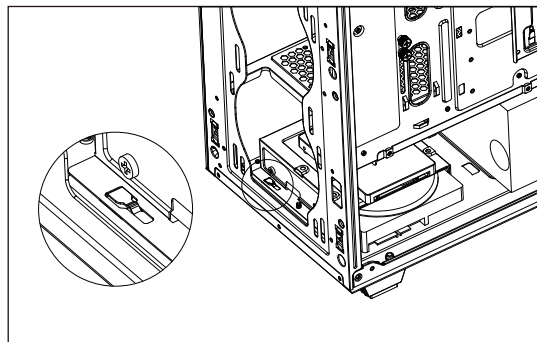
HDD installation

Loosen 2pcs screws for HDD bracket, pull out HDD bracket

Secure with screws

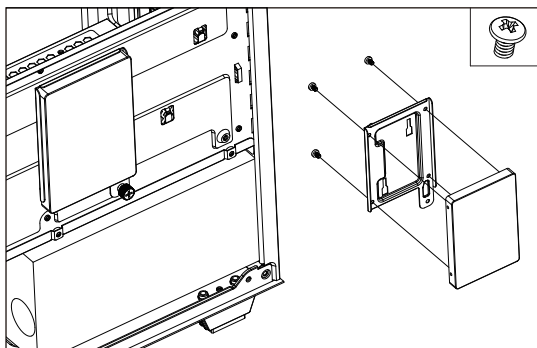Fix SSD on bracket up side and secure with screws first, then fix HDD.
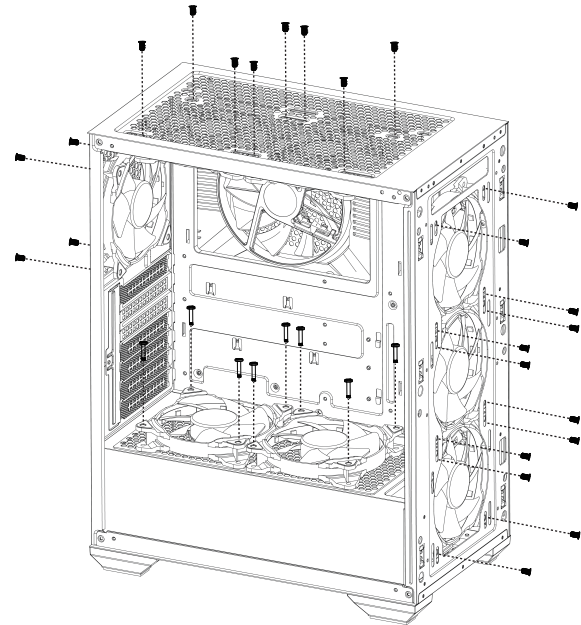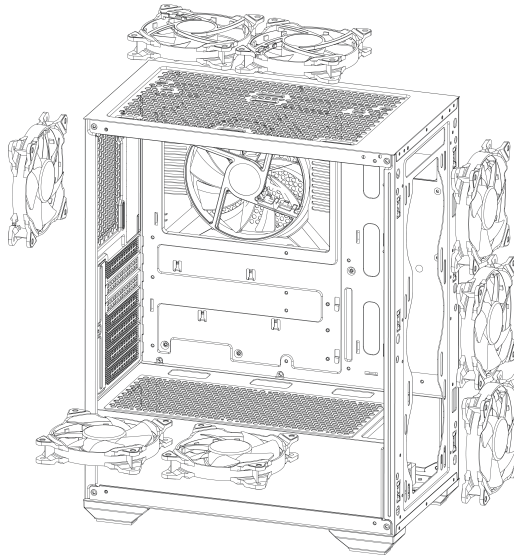

Put bracket on chassis after HDD installation, and secure with 2pcs screws.

SSD installation

Take off SSD bracket, then fix SSD on bracket and lock bracket to previous place.

FAN INSTALLATION

The size of fan cooling:

Front: 3*120mm or 2*140mm Fans

Top: 2*120mm or 2*140mm Fans

Rear: 1*120mm Fan

PSU Cover: 2*120mm Fans

LIQUID COOLING INSTALLATION
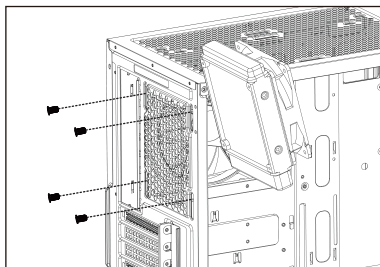
Put the 120mm radiator in the rear panel then secure with screws
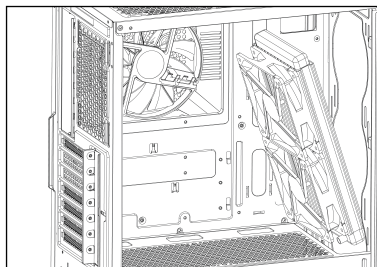
Put the radiator in the front panel

Secure with screws

Put the radiator in the top panel

Secure with screws

The size of liquid cooling:

Front: 120/140/240/280mm liquid cooling

Top: 120/140/240mm liquid cooling

Rear: 120mm liquid cooling

COC(Cooling & Overclocking) System

1, T-shaped targeted air duct

T-shaped is different from crosswise air duct, which is more targeted and by making holes on side panel to make an innovative air cut, then make effective cooling for Motherboard and hardware.
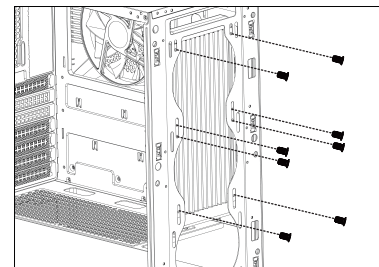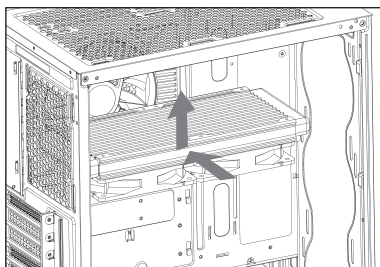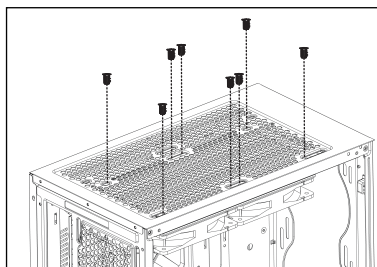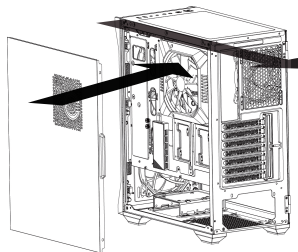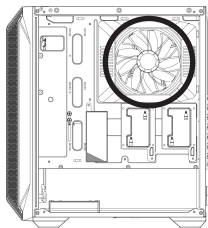
2, COC(Cooling & Overclocking)Turbo Fan

The reason why we support T-shaped is that COC Tubro fan, with the Intel 10 Gen CPU coming, the calorific value is close to overclocking level of previous generation, but COC Turbo fan can make an effective to control temperature, avoiding hardware running unstably .

3, Motherboard Tempeature Control

By testing, Cooling & Overclocking can make an effective cooling for all kinds of parts of Motherboard, especially in PCH and VRM, which can run stably, more important that effectively improve breakdown, bluescreen, running slowly and so on.
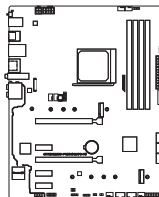
4, Test data form

| Item	Close COC	Open COC	Data difference
Mainboard	36°	32°	4°
CPU	72°	68°	4°
CPU package	81°	79°	2°
CPU ia cores	81°	79°	2°
CPU GT cores	53°	50°	3°
CPU #1	77°	76°	1°
CPU #2	71°	67°	4°
CPU #3	79°	76°	3°
CPU #4	79°	76°	3°
CPU #5	81°	79°	2°
CPU #6	79°	76°	3°
CPU #7	79°	77°	2°
CPU #8	78°	74°	4°
PCH	49°	38°	11°
VRM	48°	38°	10°
GPU	43°	41°	2°
HDD	35°	33°	2°
Cooling fan			
CPU	3229	3229	
CPU OPT	1774	1774	
CASE	1021	1021	

Note: The data comes from the gamemax laboratory, subject to environmental influences, the test results will be affected to a certain extent

COC TURBO FAN INSTALLATIONS
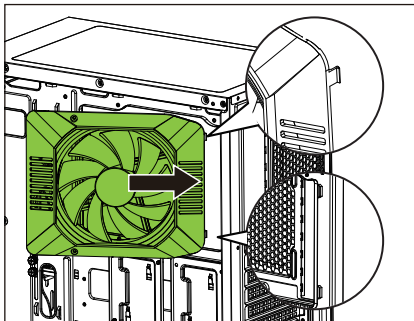
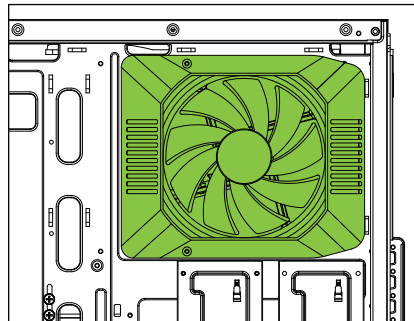**1. How to Remove COC Turbo Fan**
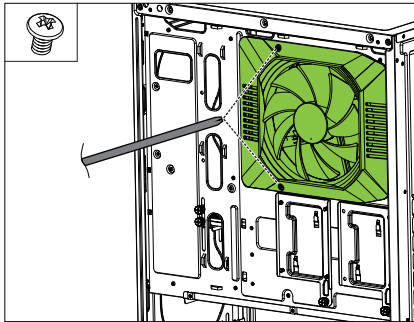
Remove two screws as shown
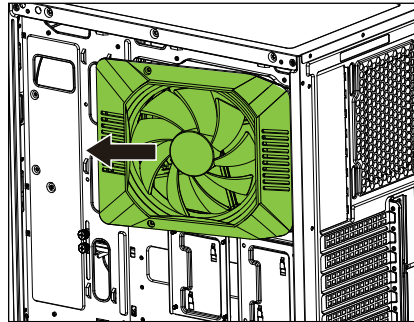
Take it away
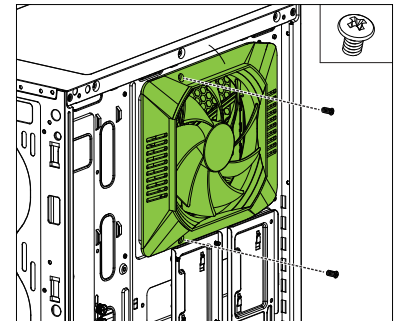
2. How to Install COC Turbo Fan

Insert type design, easy to install, only 2pcs of screws to fix
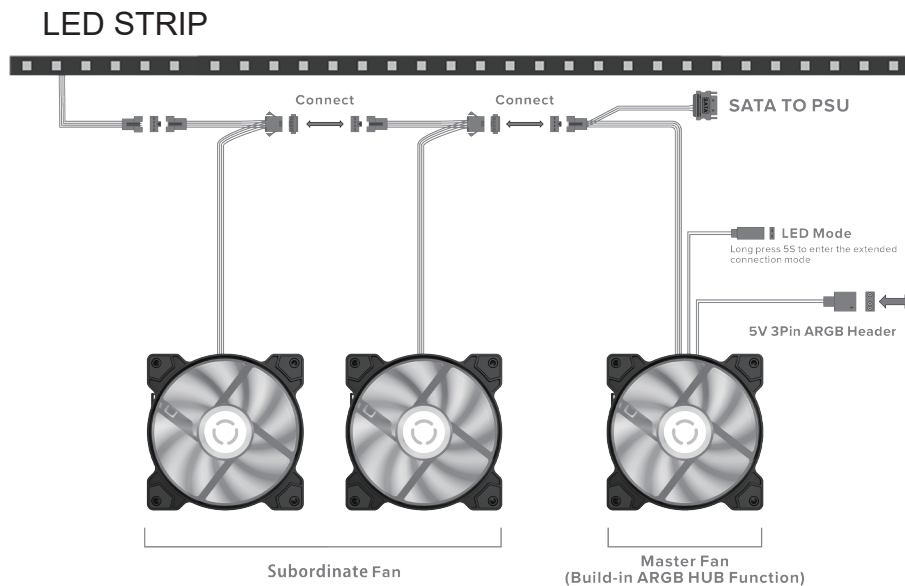
Insert the COC Turbo Fan into fixed position

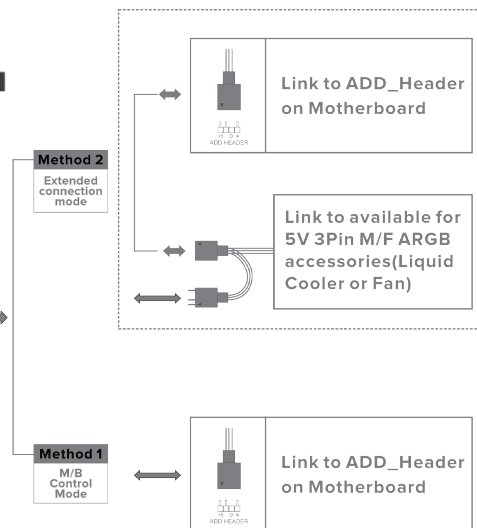Align the two screw holes and put it down slowly

Fasten two screws

FAN AND LED STRIP CONNECTING

How to extend to connect ?

LED STRIP

Connect   Connect

SATA TO PSU

Method 2
Extended
connection
mode

LED Mode
Long press 5S to enter the extended
connection mode

5V 3Pin ARGB Header

Link to ADD_Header
on Motherboard
ADD HEADER

Link to available for
5V 3Pin M/F ARGB
accessories(Liquid
Cooler or Fan)

Method 1
M/B
Control
Mode

Link to ADD_Header
on Motherboard
ADD HEADER

Subordinate Fan

Master Fan
(Build-in ARGB HUB Function)

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