

Desktop ROG G22CH

Service Manual

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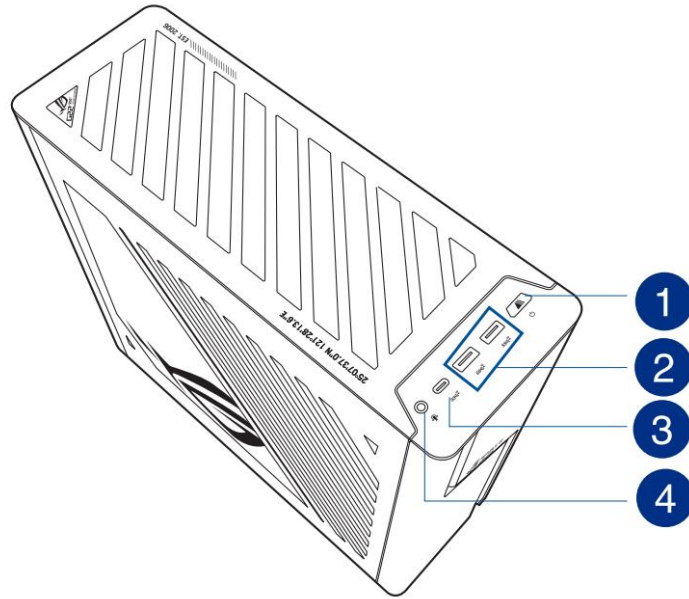
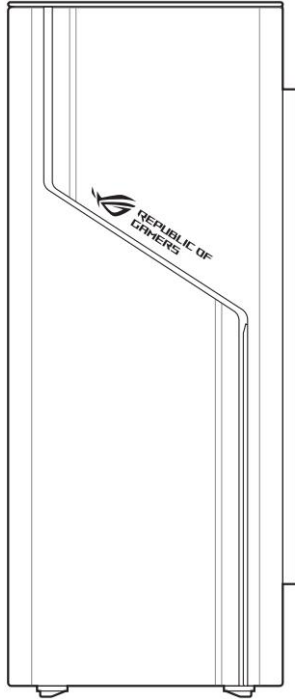
ASUS is not responsible for direct, indirect, intentional or unintentional damages resulting from improper installation and operation.

Safety precautions

- Before handling components, use a grounded wrist strap or touch a safely grounded object to avoid damaging them due to static electricity.
- Keep liquids or moisture away from your Notebook PC to avoid short circuits.
- Remove rings, watches, and any other metal objects from your hands.
- Hold components by the edges to avoid touching the ICs.
- Properly install all components before connecting the AC power. Do not use power adapters or batteries from other devices to reduce the risk of injury to persons due to fire or explosion. Use only certified power adapters or batteries supplied by the manufacturer or authorized retailers.
- Detach all clips or flaps before removing cables to prevent damage.
- Disconnect cables, connectors, and power plugs by pulling the plug evenly to avoid damage.
- Use the correct screw models on your Notebook PC to prevent damage.
- Confirm that the cable orientation is correct before connecting any cables.
- Fully remove all adhesive residue after removing and before installing any components.
- Photograph the appearance of cables, cable routing, connectors, and screws for later reference before proceeding with each step.

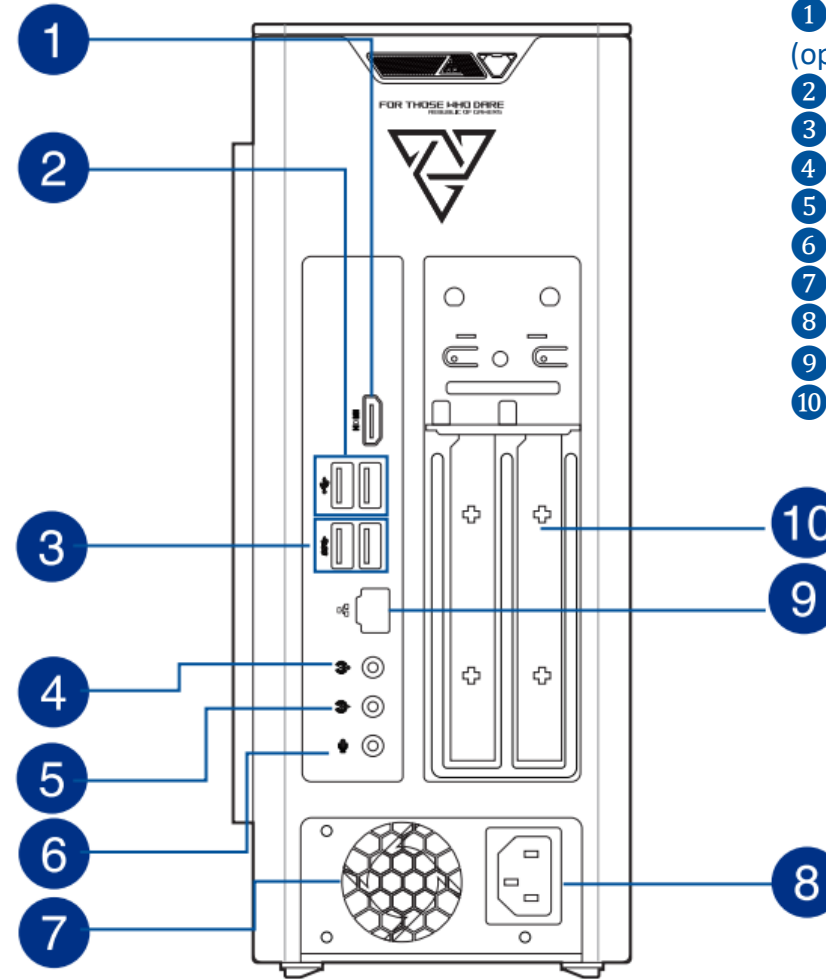
- [ASUS Desktop ROG G22CH Overview](#)
- [Components Top View](#)
- [Components Bottom View](#)
- [Appropriate Tools](#)
- Disassembly steps :
 - [TOP COVER](#)
 - [SLIDE DOOR](#)
 - [TOP IO COVER](#)
 - [FRONT COVER](#)
 - [CPU LIQUID COOLER-1](#)
 - [CPU LIQUID COOLER-2](#)
 - [CPU FAN BRACKET \(For AIR\)](#)
 - [SYS FAN 7CM \(For AIR\)](#)
 - [CPU AIR COOLER \(For AIR\)](#)
 - [VGA CARD](#)
 - [VGA CARD\(For AIR\)](#)
 - [DDR](#)
 - [SSD](#)
 - [WIFI CARD](#)
 - [MAIN BOARD & CPU](#)
 - [FIO BD & LED BD](#)
 - [RF CABLE](#)
 - [MB BRIDGE BRKT](#)
 - [PSU COVER](#)
 - [SYSTEM FAN 7CM](#)
 - [PSU FLEX 600W](#)

Front & Top View






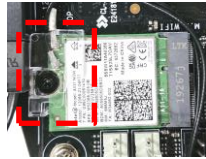





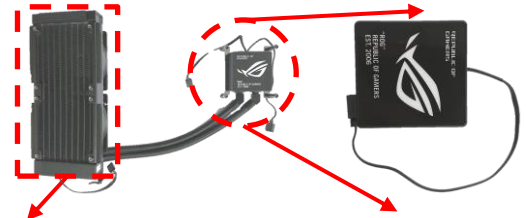

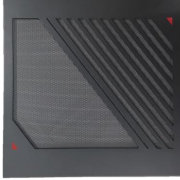





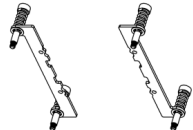

















- 1 Power button
- 2 USB 3.2 Gen 2 port
- 3 USB 3.2 Gen 2 Type-C® port
- 4 Audio combo jack

Rear View



- 1 HDMI® port (optional)
- 2 USB 2.0 ports
- 3 USB 3.2 Gen1 ports
- 4 Line In port
- 5 Microphone port
- 6 Line Out port
- 7 Air vents
- 8 Power connector
- 9 LAN (RJ-45) port
- 10 Expansion slot brackets

Components Top View

◆ VGA CARD 	◆ RTX3070 VGA BRACKET 	◆ PCI SLOT COVER 	◆ WLAN CABLE TERMINAL COVER 	◆ TOP COVER 	◆ FIO BD 	◆ FIO TO MB 16P CABLE 
◆ DDR 	◆ SSD 	◆ CPU LIQUID COOL 	◆ CPU LIGHTING COVER 	◆ LEFT COVER 	◆ PSU COVER 	◆ FIO 40P USB CABLE 
◆ PSU 	◆ SSD HOUSING 	◆ SYS FAN 9CM 	◆ ACCESSORY KITS 	◆ RIGHT COVER 	◆ SCREW RUBBER 	◆ FIO TO MB 10P CABLE 
◆ WIFI Card 	◆ M2 PAD 25X20X6 	◆ MAINBOARD 	◆ CPU 	◆ FRONT COVER 	◆ LED RIGHT TO MB 3P CABLE 	◆ RISER TO MB 7P CABLE 
◆ SYS FAN with FAN GUARD 	◆ M2 SSD SINK 	◆ RISER BD 	◆ TOP IO COVER 	◆ BACK COVER 	◆ LED LEFT TO RIGHT 3P CABLE 	◆ MB BRIDGE BRKT 

Components Top View

◆ RF CABLE(455 MM)



◆ RF CABLE(420 MM)



◆ WLAN CABLE TERMINAL COVER



◆ FIO USB GASKET



◆ FIO TYPE-C GASKET



◆ LED BD 1



◆ LED BD 2



◆ VGA SIDE ID MY



◆ PSU ACETATE CLOTH TAPE



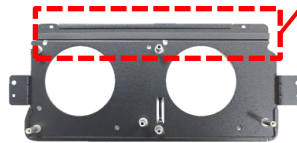
◆ VGA



◆ VGA BRACKET



◆ CPU FAN BRACKET



◆ CPU FAN BRACKET SPONGE



◆ CPU AIR FAN



◆ SYSTEM FAN BKT

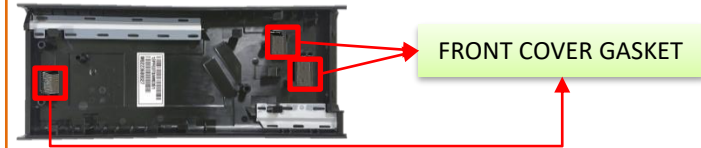


◆ CPU AIR COOLER

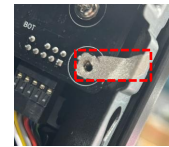


For Air Cooler

◆ COVER GASKET



◆ TP EMI TAPE (EN-0387989)



◆ TOP COVER



◆ LED BD 1



◆ DIPOLE ANTENNA



◆ TOP IO COVER



◆ LED BD 2



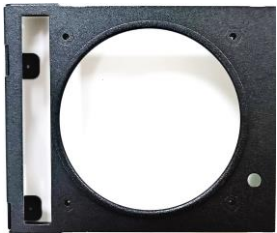
◆ VGA SIDE ID
MY



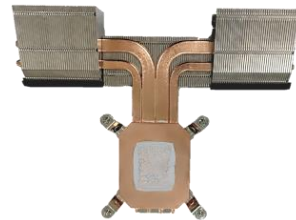
◆ BACK COVER



◆ SYSTEM FAN BKT



◆ CPU AIR
COOLER



Please prepare and select the appropriate tools to disassemble/assemble for the ROG Desktop (G22CH).

◆ Screwdriver

Please accord to different screw specification to choose different screwdriver and head.



◆ Plastic Blade



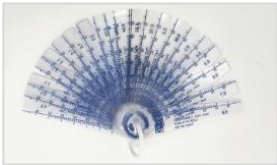
◆ Plastic Tweezers

Use a pair of tweezers to remove/insert/tidy cables.



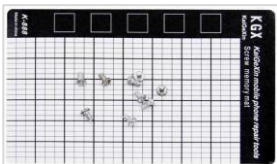
◆ Thickness Gauge

Thickness compass specification 0.05mm-1.5mm. Use it to measure the gap.



◆ Magnetism Board

Suggest local buy magnetism board to place screw, avoid mix different type screw to cause assembly damage.



◆ Alcohol 95%



◆ Thermal Grease



◆ Cable Tie (Local Buy)



◆ Needle nose pliers



◆ Glove



◆ Dust-free Cloth





Disassembly Notice

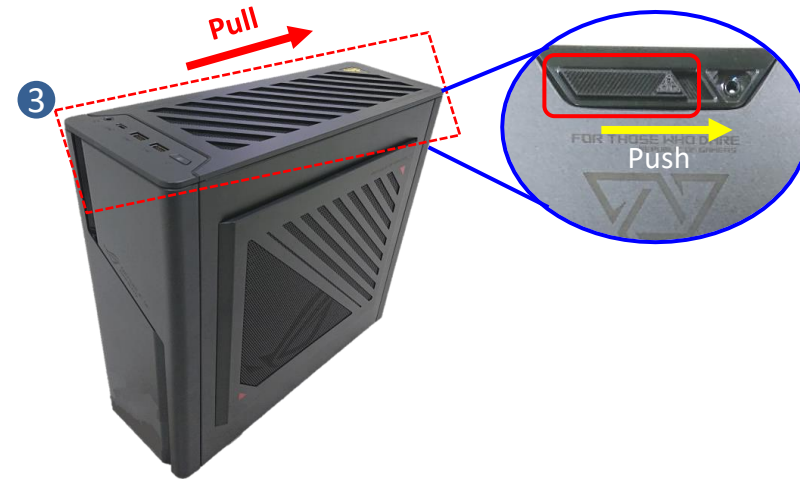
Please be sure to pull out adapter and disconnect the battery. 

Step 1 : Remove BACK COVER SCREW RUBBER.

Step 2 : Remove the screw *1pc.

Step 3 : Push the button and pull out the TOP COVER to remove it.

Screws	QTY	Spec	Torque (kgf-cm)
 	1	M2*9L(4.5,0.8)(K) #1	3.0±0.5



Disassembly Notice

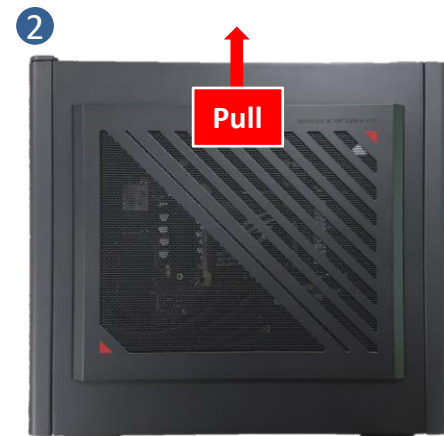
Please be sure to pull out adapter and disconnect the battery. 

Step 1 : Pull out the LEFT COVER.

Step 2 : Pull out the RIGHT COVER.



LEFT COVER

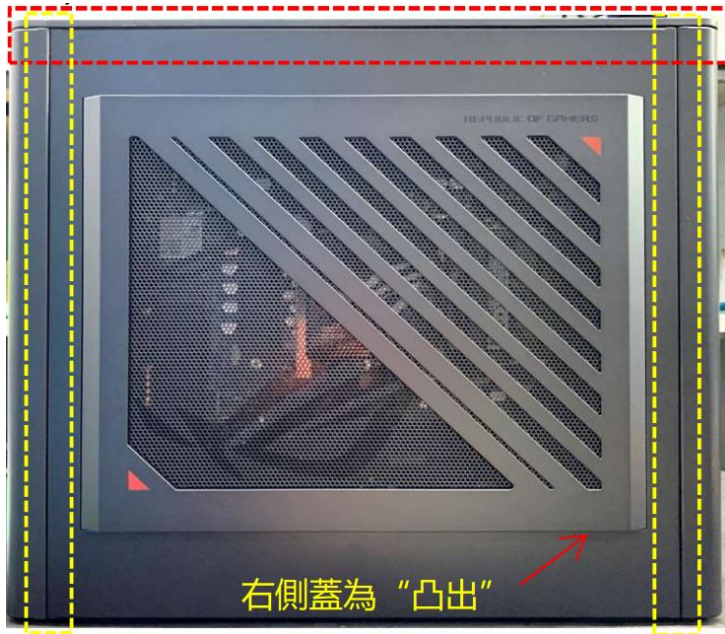


RIGHT COVER

Slide Cover assembly Notice

 When assembly, please follow the instructions below to assemble the SLIDE COVER.

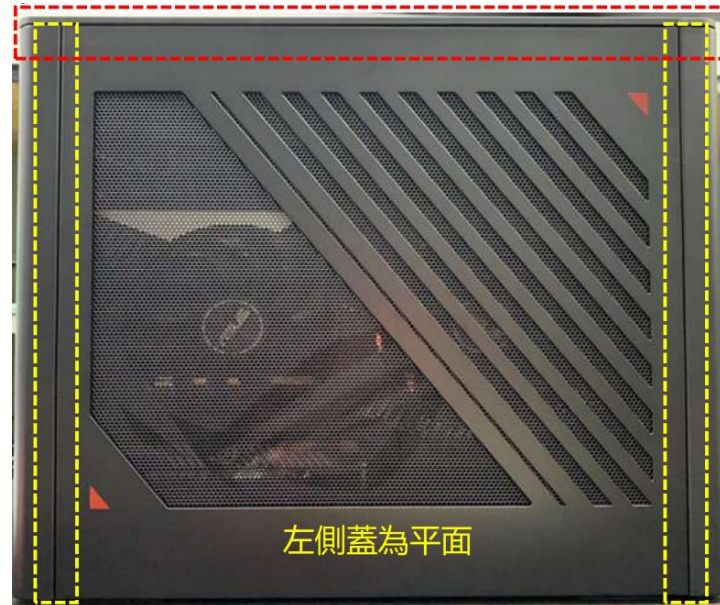
RIGHT COVER(install the motherboard)



右側蓋為“凸出”

protruding

LEFT COVER(install the graphics card)



左側蓋為平面



flat

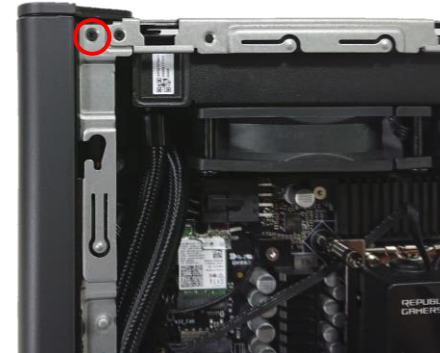
Disassembly Notice

Please be sure to pull out adapter and disconnect the battery. 

Step 1 : Remove both sides of screws *2pcs

Step 2 : Use the plastic blade to pry the TOP IO COVER.

Screws	QTY	Spec	Torque (kgf-cm)
 	2	M2.5*4L(4.0,0.7) (F) #1	3.0±0.5



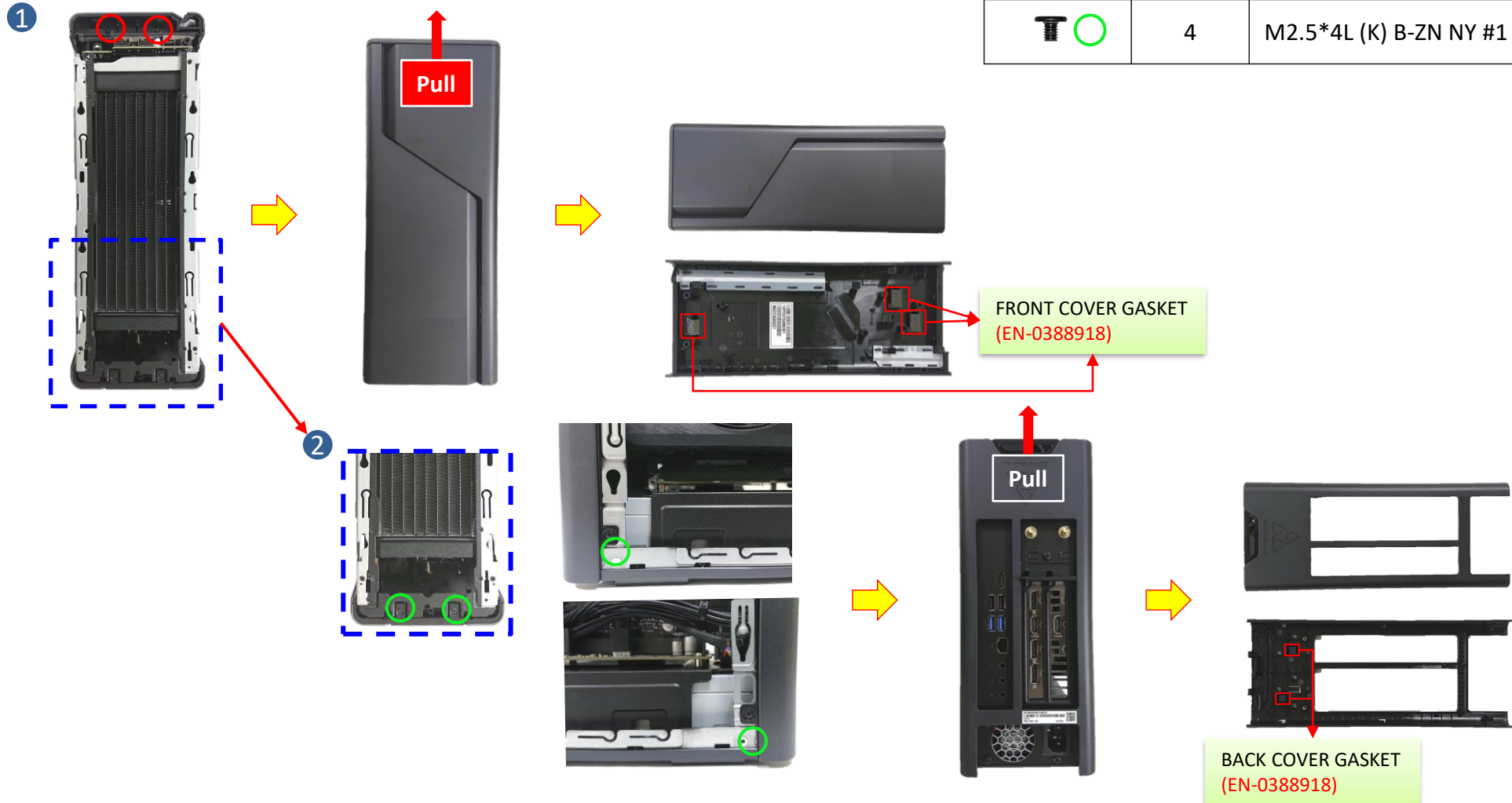
Disassembly Notice

Please be sure to pull out adapter and disconnect the battery.

Step 1 : Remove screws *2pcs, and then pull out to remove FRONT COVER.

Step 2 : Remove screws *4pcs, and then Pull out to remove BACK COVER.

Screws	QTY	Spec	Torque (kgf-cm)
	2	#6-32*6.3L (7.3,2.45)(B)	6.0±0.5
	4	M2.5*4L (K) B-ZN NY #1	2.0±0.5



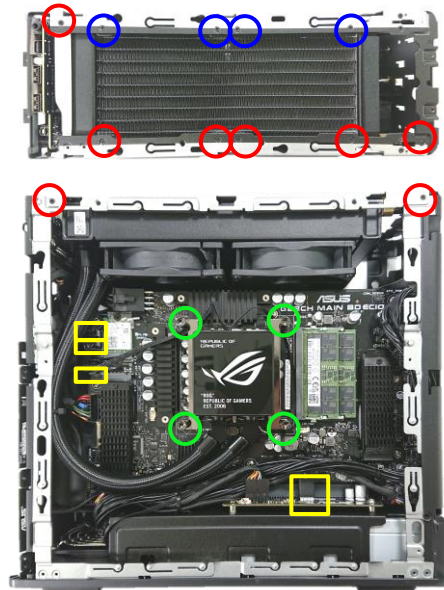
Disassembly Notice

Please be sure to pull out adapter and disconnect the battery.

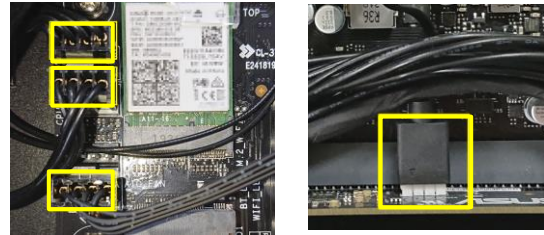
- Step 1 : Disconnect 4 cables (Yellow mark) holding on the mainboard.
- Step 2 : Remove screws (Red Circle)*8pcs, then remove CHASSIS BRACKET RIGHT.
- Step 3 : Remove screws (Blue Circle)*4pcs.
- Step 4 : Release screws (Green Circle)*4pcs on CPU LIQUID COOLER 180.
- Step 5 : Swinging CPU Liquid Cooler, then remove it.

e.g. G22CH CASE ASSY with CHASSIS BRACKET RIGHT

Screws	QTY	Spec	Torque (kgf-cm)
	8	M2.5*4L(4.0,0.7) (F) #1	3.0±0.5
	4	M2.5*4L(4.0,0.7) (F) #1	3.0±0.5
	4	LIQUID COOLER with screws	4.0±0.2



① Disconnect (Yellow mark)



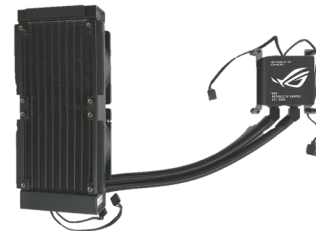
② Unscrew (Red Circle), then remove



③ Unscrew (Blue Circle)

④ Release screws (Green Circle)

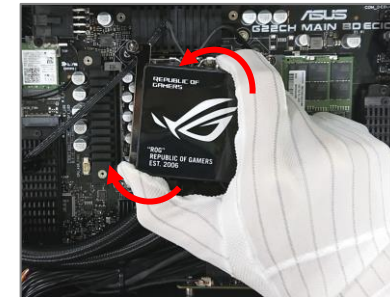
⑤ Swinging cooler then remove



Disassembly Notice



If the CPU LIQUID COOLER is hard to disassemble, please rotate the cooler left and right to separate.






Disassembly Notice

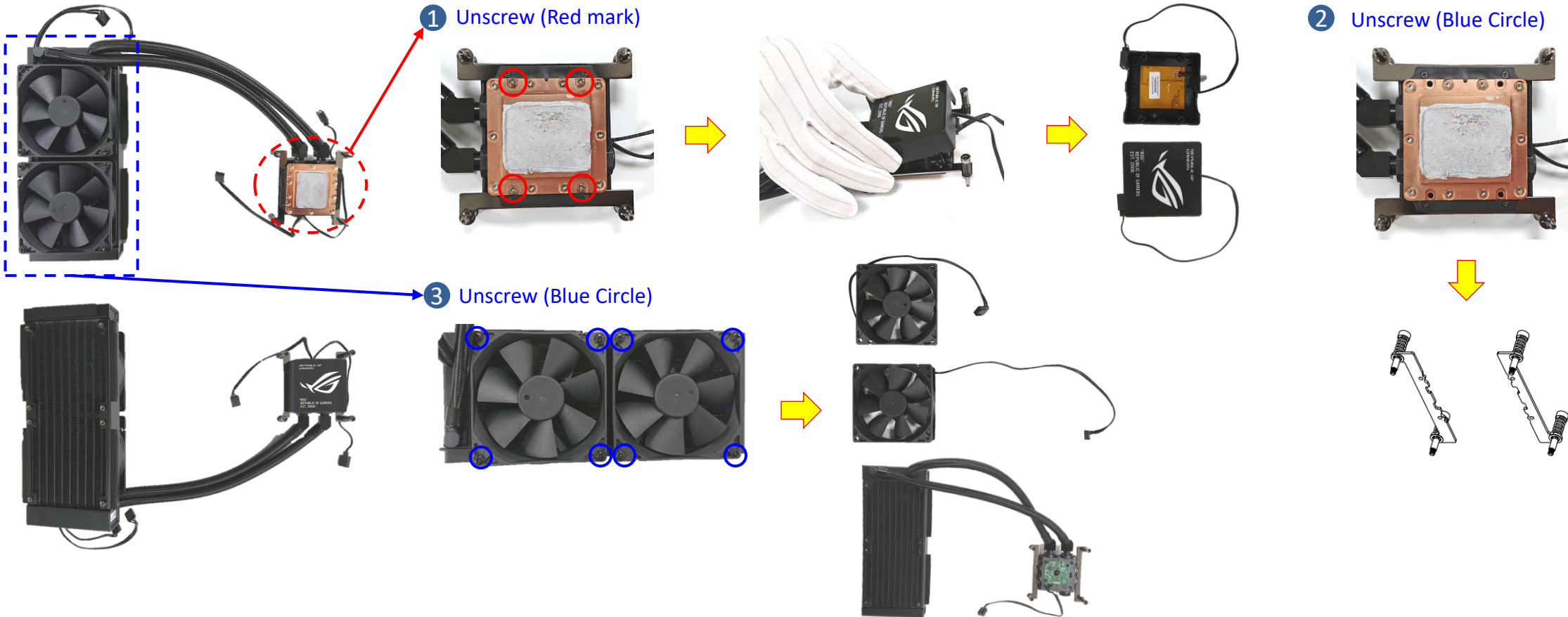
Please be sure to pull out adapter and disconnect the battery. 

Step 1 : Remove screws *4pcs, then remove CPU LIGHTING COVER.

Step 2 : Remove screws *4pcs, then remove ACCESSORY KITS.

Step 3 : Remove screws *8pcs. Then move 2 SYS FAN 9CM.

Screws	QTY	Spec	Torque (kgf-cm)
	4	B2.5*8.7L(LIGHTING COVER with screws)	4.0±0.2
	4	13PF03T0M29011 / ACCESSORY KITS	4.0±0.2
	8	13PF03T0M29011 / ACCESSORY KITS	4.0±0.2



CPU LIQUID COOLER assembly Notice

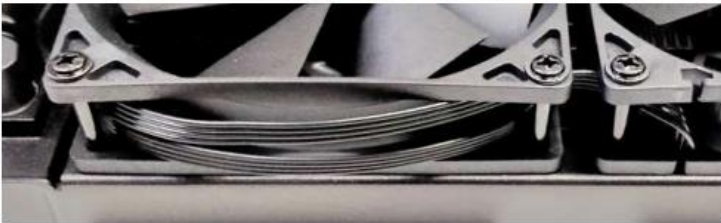
! When assembly, please according to below image to tidy up SYS FAN 9CM cables.

圖一、水冷系統風扇線走線要求

Fan cable alignment requirements



圖二、系統風扇線穿線圖示 (穿在螺絲內側) Cables inside the screws

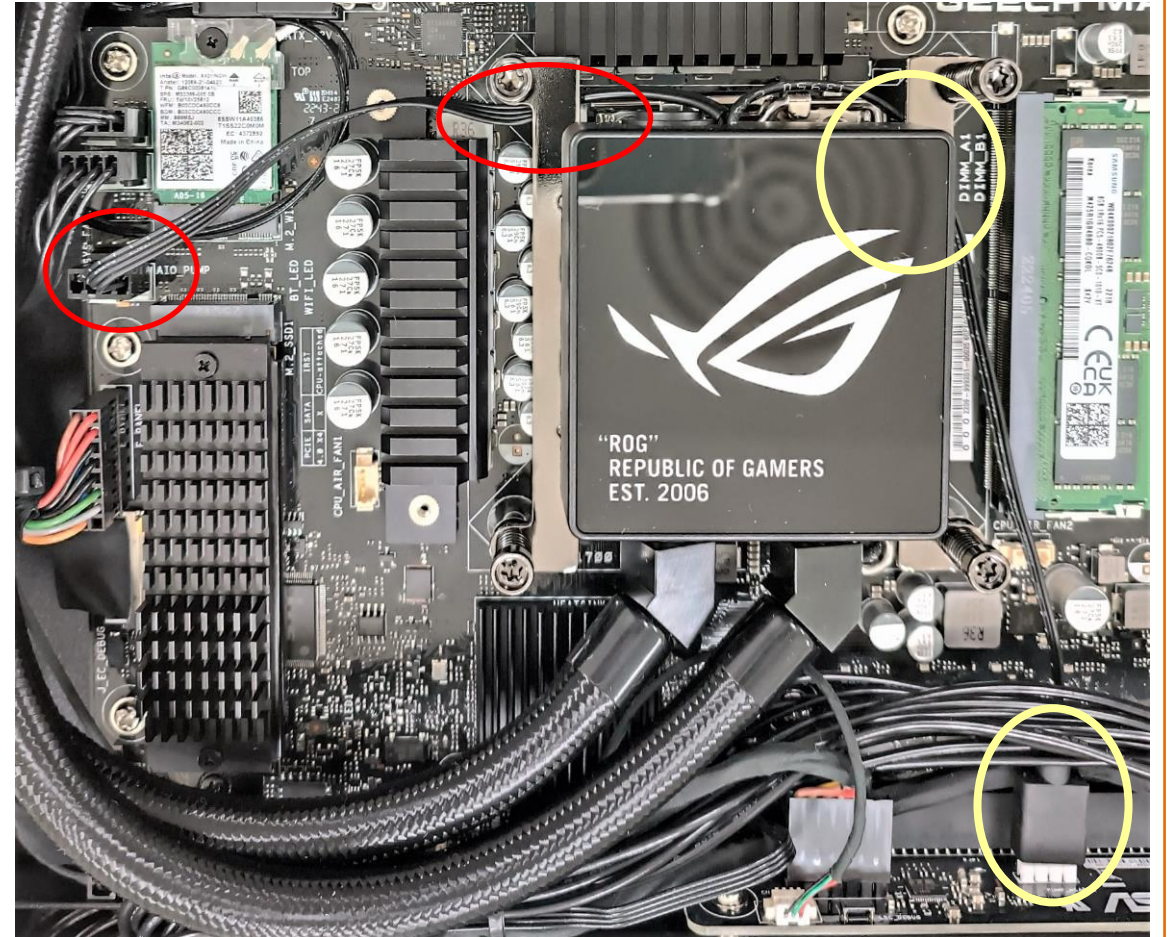


圖三、鎖固水冷系統風扇

此處線不要鎖在螺絲內 Do not lock the cable inside the screws



! When assembly, please according to below image to tidy up CPU LIQUID COOLE cables.



Disassembly Notice

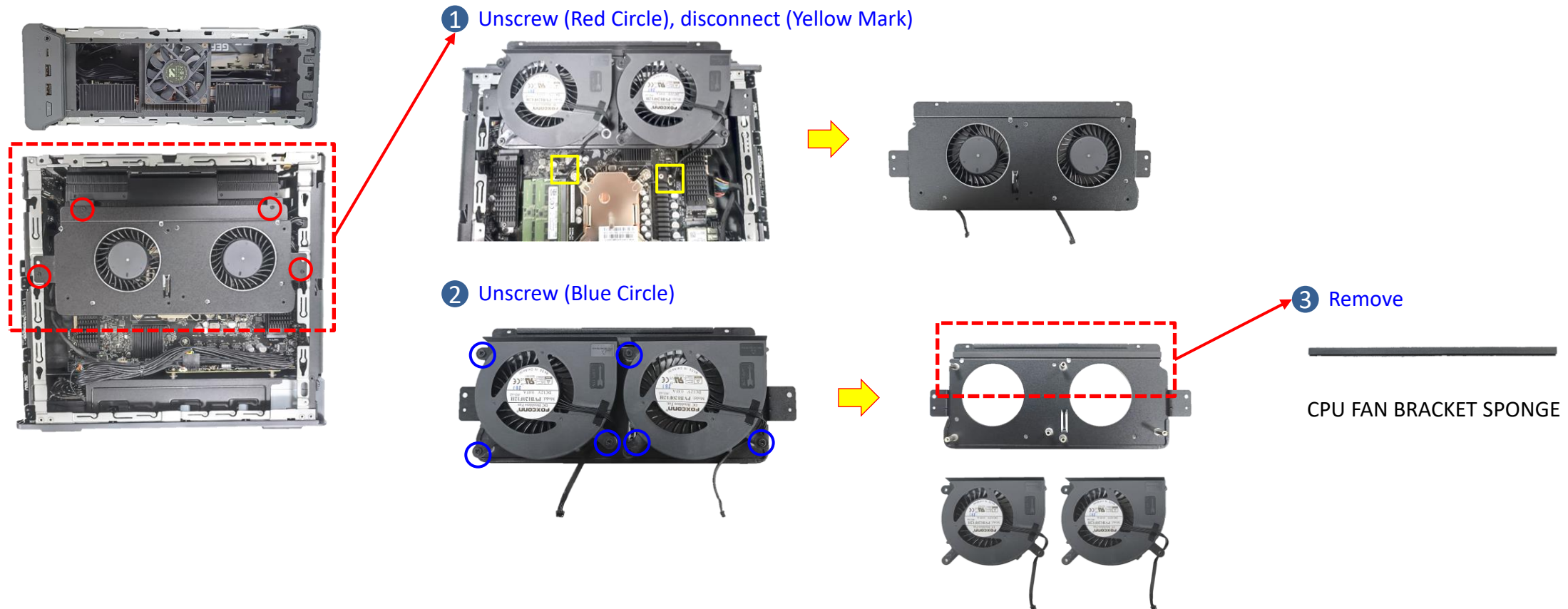
Please be sure to pull out adapter and disconnect the battery. 

Step 1 : Remove screws *4pcs, and flip CPU FAN BRACKET to disconnect 2 Fan cables, then remove.

Step 2 : Remove screws *6pcs, then remove CPU AIR FAN.

Step 3 : Remove CPU FAN BRACKET SPONGE.

Screws	QTY	Spec	Torque (kgf-cm)
 	4	M2.5*4L (K) B-ZN NY #1	4.0±0.5
 	6	M3*6L (K) B-ZN #2	6.0±0.5



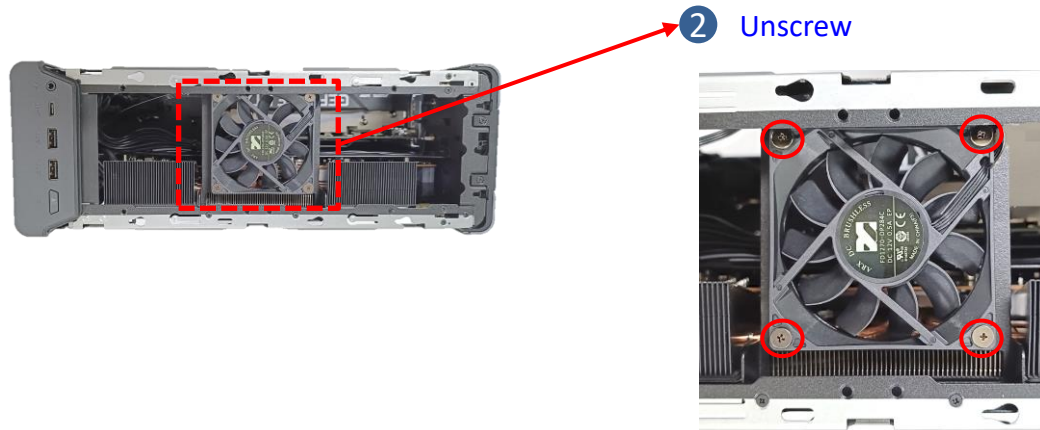
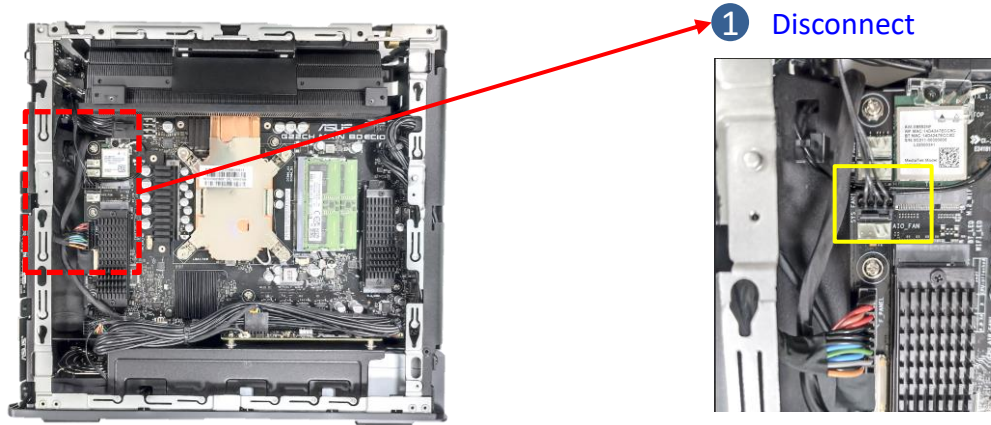
Disassembly Notice

Please be sure to pull out adapter and disconnect the battery.

Step 1 : Disconnect SYS FAN connector.

Step 2 : Remove screws *4pcs, then remove SYS FAN 7CM.

Screws	QTY	Spec	Torque (kgf-cm)
	4	M2.5*5 Φ7(K)	4.0±0.2

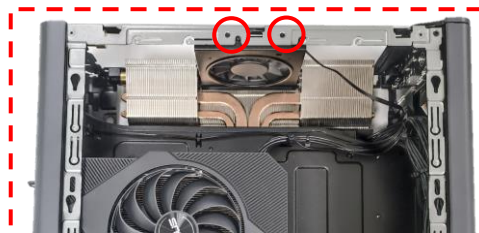


Disassembly Notice

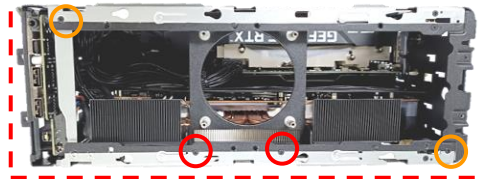
Please be sure to pull out adapter and disconnect the battery.

- Step 1 : Remove screws (Red Circle)*4pcs, then remove SYSTEM FAN BKT.
- Step 2 : Remove screws (Green Circle)*2pcs, and release screws (Blue Circle) *4pcs on CPU AIR Cooler, then remove CPU AIR Cooler.
- Step 3 : Remove screws (Orange Circle)*4pcs, then remove CHASSIS BRACKET RIGHT.
e.g. G22CH CASE ASSY with CHASSIS BRACKET RIGHT

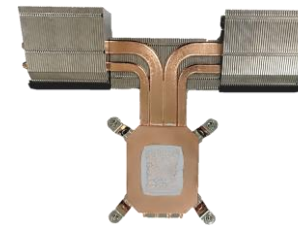
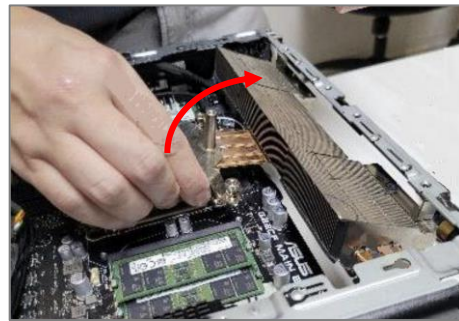
Screws	QTY	Spec	Torque (kgf-cm)
	4	M2.5*4L(4.0,0.7) (F) #1	3.0±0.5
	2	M2.5*4L(4.0,0.7) (F) #1	4.0±0.5
	4	Retention Screw (#2)	5.0±0.5
	4	M2.5*4L(4.0,0.7) (F) #1	4.0±0.5



1 Unscrew (Red Circle), then remove



2 Unscrew (Green Circle), then release (Blue Circle)



3 Unscrew (Yellow Circle), then remove



Disassembly Notice

Please be sure to pull out adapter and disconnect the battery.

Step 1 : Disconnect 2 power supply connectors. (Yellow mark)

Step 2 : Remove screw *1pc.

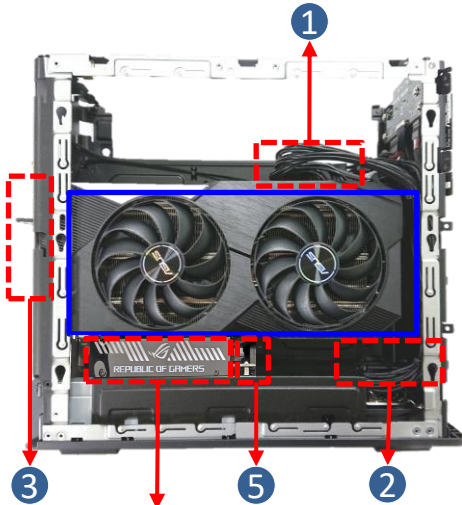
Step 3 : Remove screws *3pcs, and then remove PCI SLOT COVER.

Step 4 : Remove screws *2pcs, and then remove VGA SIDE ID MYLA.

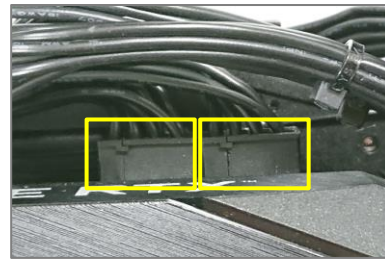
Step 5 : Press the button and then remove VGA card.

Step 6 : Remove screws *2pcs, and VGA BRACKET.

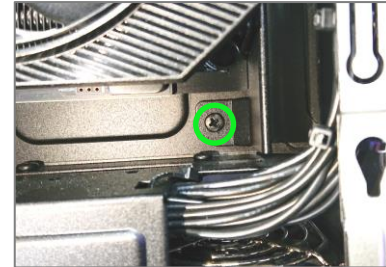
Screws	QTY	Spec	Torque(kgf-cm)
	1	#6-32*6.3L (7.3,2.45)(B) #2	8.0±0.5
	3	#6-32*6.3L (7.3,2.45)(B) #2	8.0±0.5
	2	SCREW M2*5L	2.0±0.2
	2	SCREW #6-32*6.3L (7.3,2.45)(B)	8.0±0.2



1 Disconnect



2 Disconnect



3 Disconnect



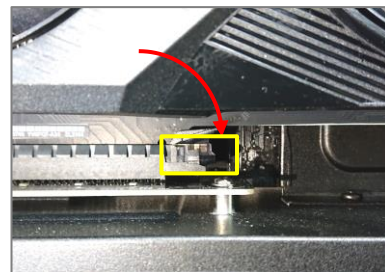
6 Disconnect



4 Disconnect



5 Press

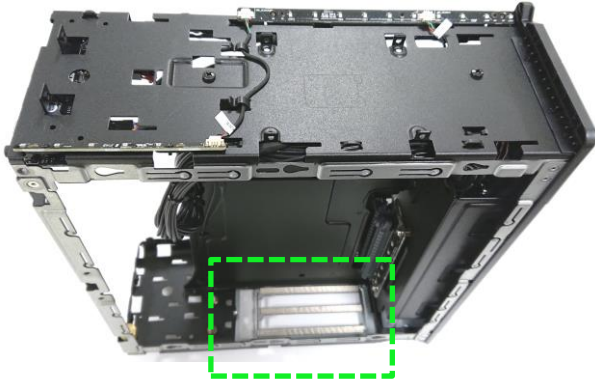


Remove



EMI SHIELDING GASKET assembly Notice

 When EMI SHIELDING GASKET assembly, please according to below location to paste.



Disassembly Notice

Please be sure to pull out adapter and disconnect the battery.

Step 1 : Disconnect a power supply connector (Yellow mark).

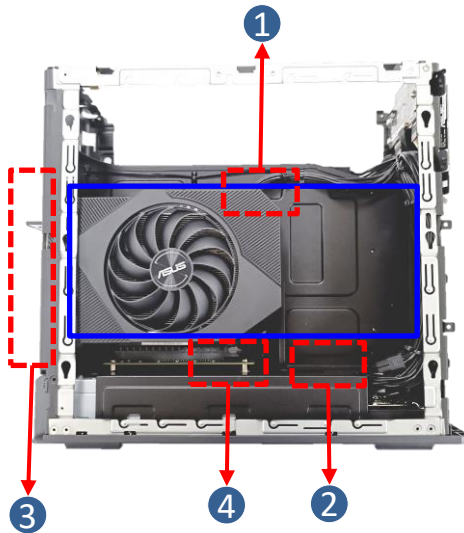
Step 2 : Remove screw *1pc.

Step 3 : Remove screws *3pcs, and then remove PCI SLOT COVER.

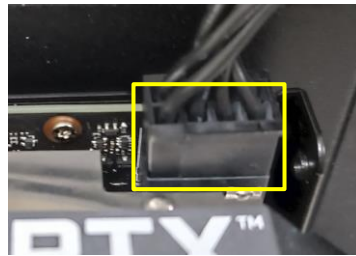
Step 4 : Press the button and then remove VGA card.

Step 5 : Remove screws *2pcs, and VGA BRACKET.

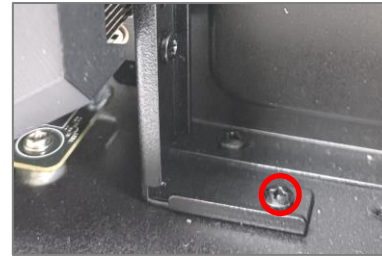
Screws	QTY	Spec	Torque(kgf-cm)
	4	#6-32*6.3L (7.3,2.45)(B)	8.0±0.5
	2	#6-32*6.3L (7.3,2.45) (B) #2	8.0±0.5



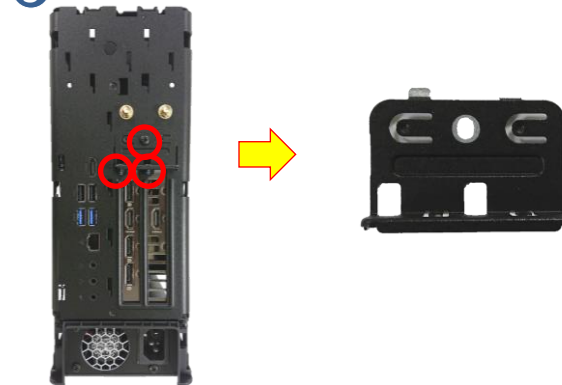
1 Disconnect



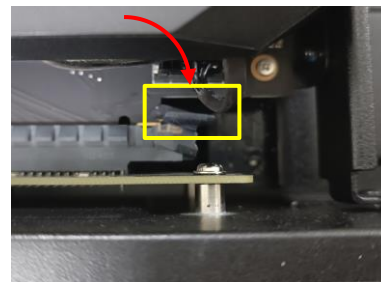
2 Remove



3 Disconnect




4 Press and remove



5 Disconnect

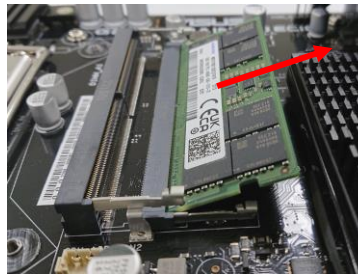
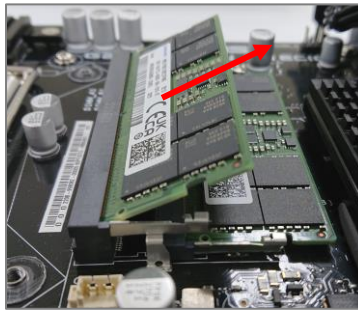
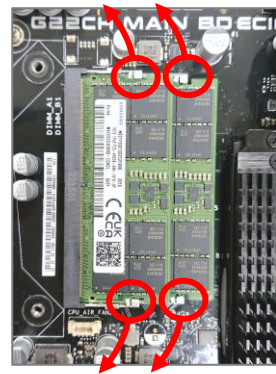
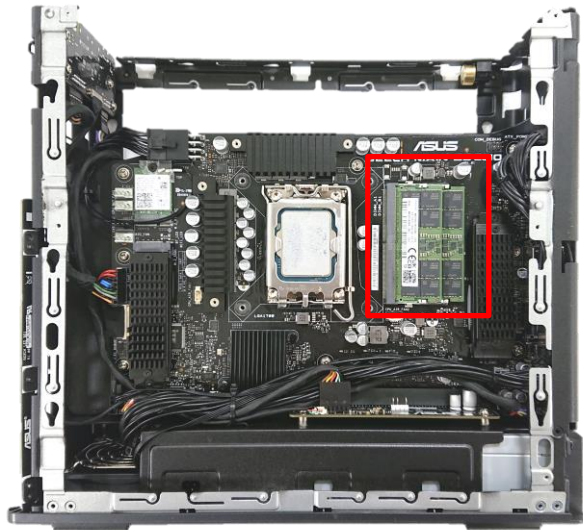


Disassembly Notice Please be sure to pull out adapter and disconnect the battery. 

Step 1 : Unlock and remove the DDR module *2pcs.

1

Unlock



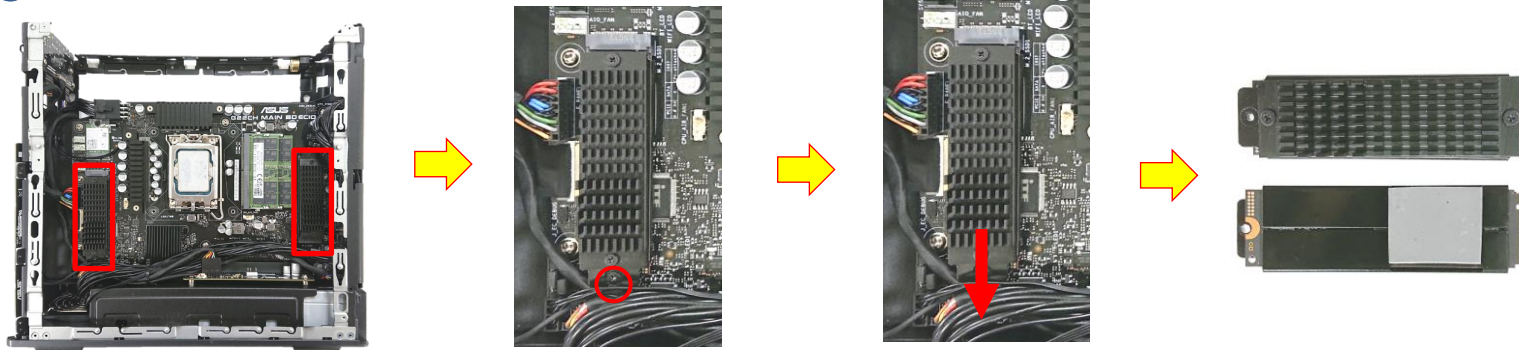
Disassembly Notice

Please be sure to pull out adapter and disconnect the battery.

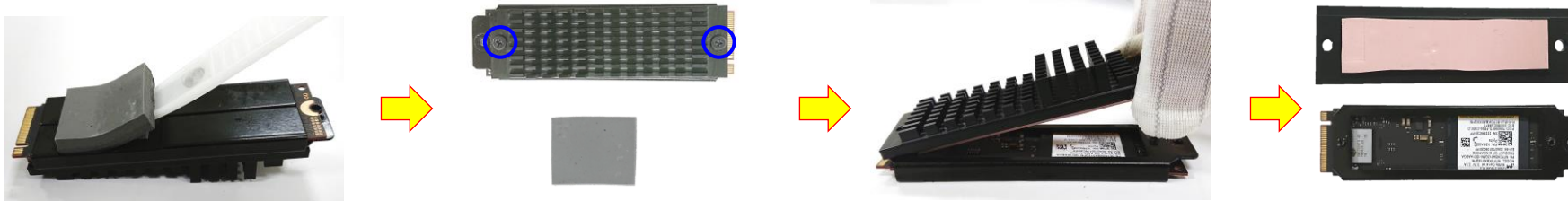
- Step 1 : Remove screws 1*pc, and follow direction to remove SSD.
- Step 2 : Remove PAD, and remove screws *2pcs, then separate SSD housing.
- Step 3 : Remove Thermal Pad.
- Step 4 : Remove SSD from TH BRACKET.

Screws	QTY	Spec	Torque (kgf-cm)
	1	M2*7.5L (4.5,0.8) (K) #1	2.0 ±0.2
	2	M2*4L	2.0 ±0.2

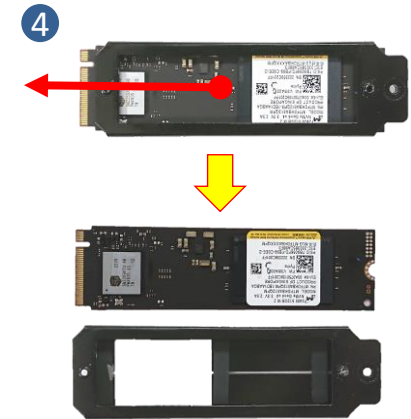
1 Unscrew



2 Remove

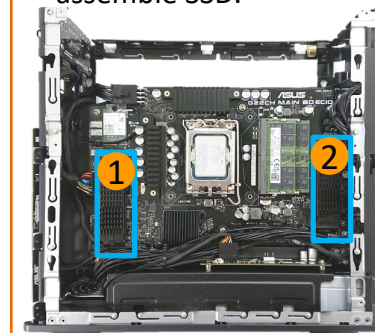


3 Remove



Assembly Notice

Please follow the criteria below to assemble SSD.





- 1 MAIN SSD
- 2 AUX SSD

Disassembly Notice

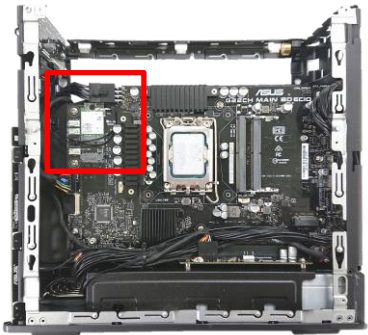
Please be sure to pull out adapter and disconnect the battery. 

Step 1 : Remove screw 1*pc, then remove WLAN CABLE TERMINAL COVER.

Step 2 : Disconnect RF Cables and then remove WIFI Card.

Screws	QTY	Spec	Torque (kgf-cm)
 	1	M2*3L (5.5,0.8) (K) B-ZN	2.0±0.2

1



Unscrew



2 Disconnect

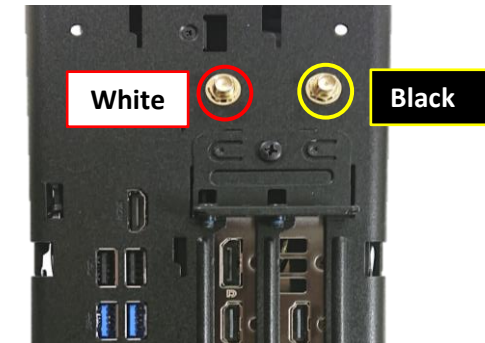
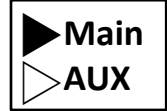
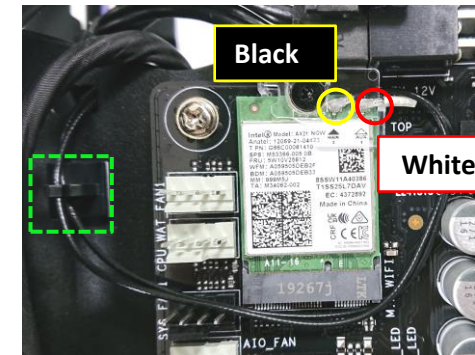


Remove



Assembly Notice

 Please according to the image below to tidy up RF MAIN and AUX Antenna cables.



Disassembly Notice

Please be sure to pull out adapter and disconnect the battery.

Step 1 : Disconnect connectors (Yellow mark) *8pcs.

Step 2 : Remove screws (Red circle) *8pcs.

Step 3 : Remove screws (Green circle) *4pcs on RISER Board.

Step 4 : Pull up Main-Board, and disconnect connectors (Yellow mark) *2pcs.

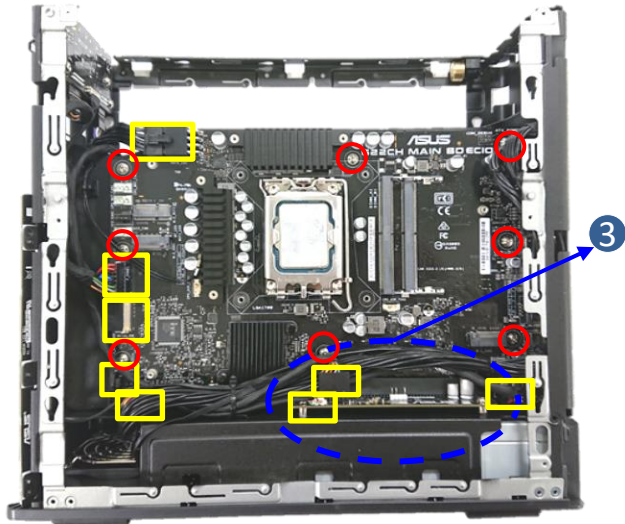
Step 5 : Press the button and separate RISER Board.

Step 6 : Remove CPU from socket.

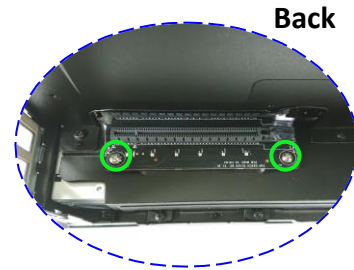
Screws	QTY	Spec	Torque (kgf-cm)
	8	M3*4L(7,2.4) (B+W) #2	6.0±0.5
	4	M3*4L (6.3,2.05) (P)	6.0±0.5

① Disconnect (Yellow mark)

② Unscrew (Red circle)



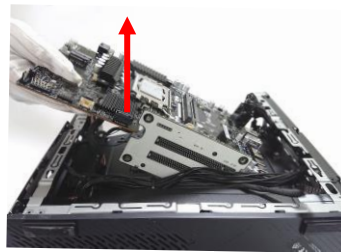
③ Unscrew (Red circle)



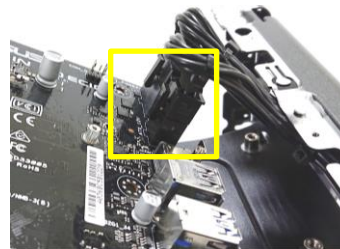
Front



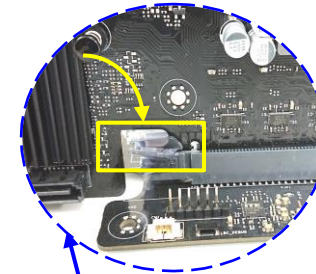
④ Pull up



Disconnect



⑤ Press

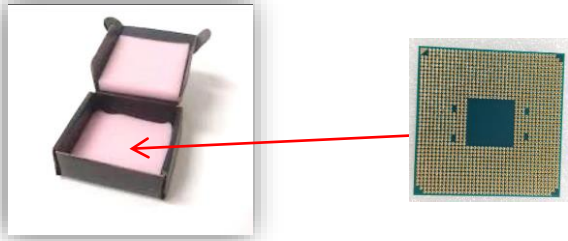


⑥ Remove

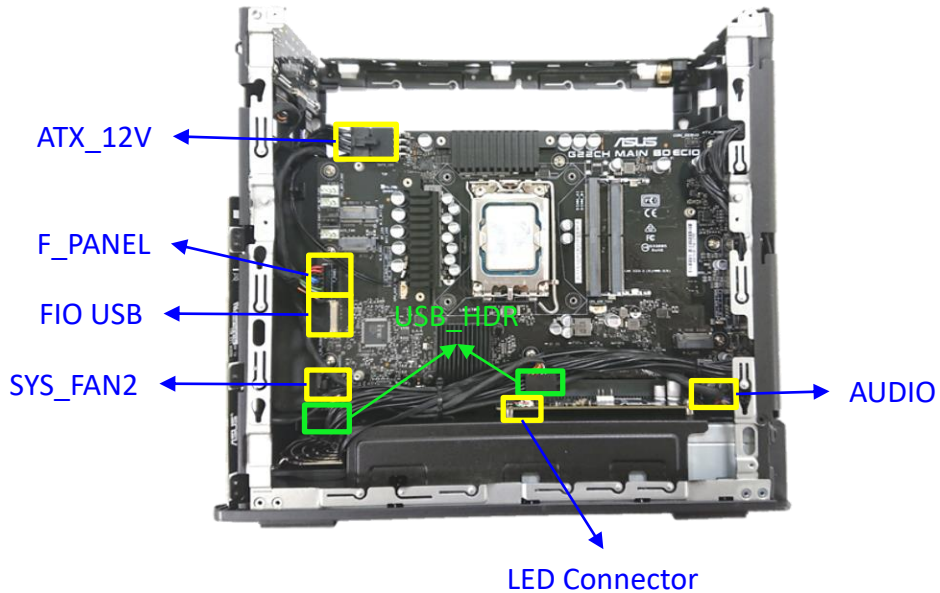


CPU COOLER Disassembly Notice

Pin facing down on Processor packaging to protect the CPU.



Please follow the instructions to assemble the CPU.



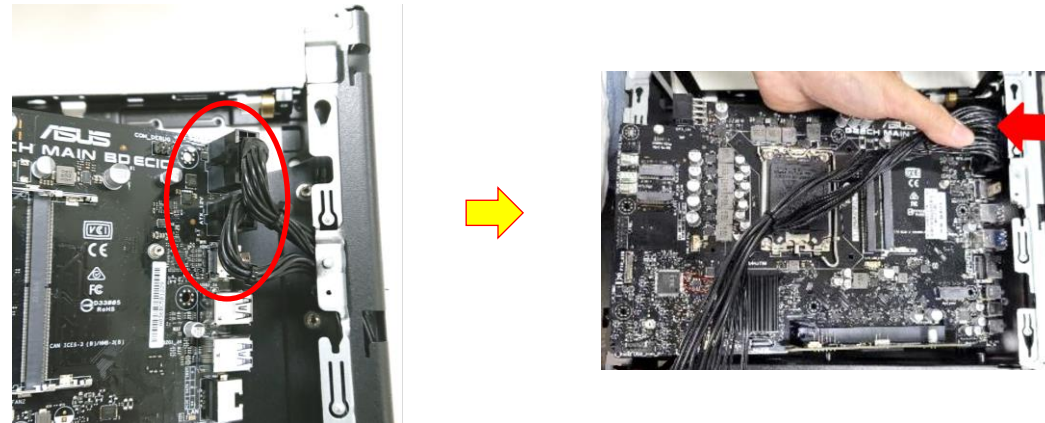
Assembly Notice

Please follow the instructions to assemble the CPU.



The CPU triangle logo must be aligned.

When assemble Main-Board, please connect 10Pin & 6Pin PSU cables then place MB.



Assembly Notice

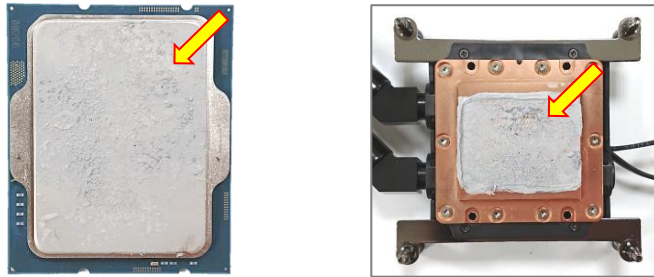
Please be sure to pull out adapter and disconnect the battery. 



Please make sure that re-smear thermal material on CPU Die, if thermal module have to be reassembled.

Step-1 :

Using dust-free cloth with 95% alcohol to clean up the residual thermal grease on CPU & thermal module.



Step-2 :

Please use plastic tool (Plastic stick) to get Thermal Grease, and smear over CPU around 0.2~0.3mm thick.



Attention:

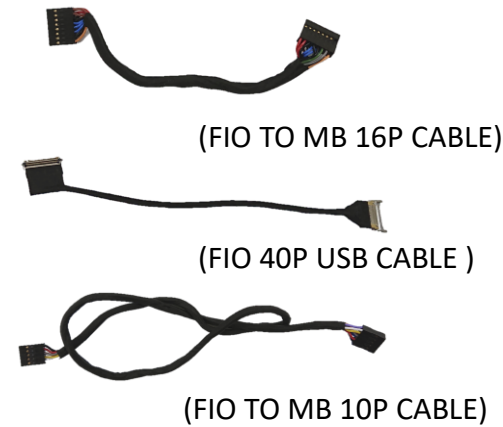
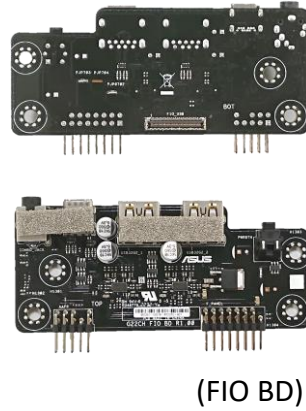
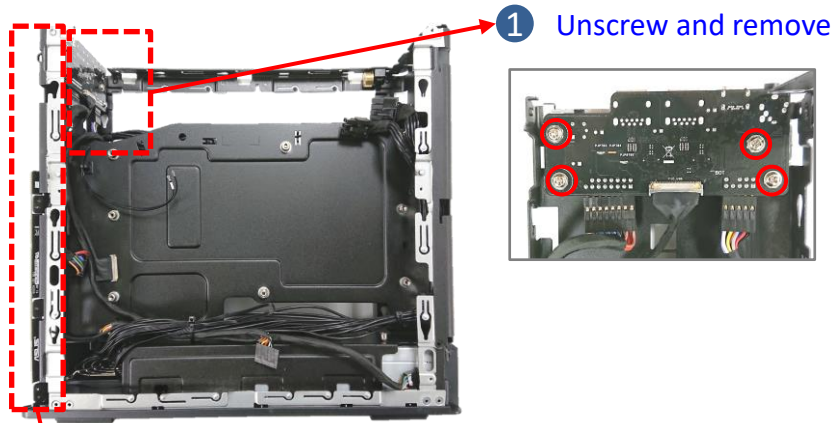
1. Please clean plastic tool with Dust-free cloth and 95% alcohol before using.
2. Please mix well before Thermal grease using (In case Oil-Grease separation).

Disassembly Notice

Please be sure to pull out adapter and disconnect the battery.

- Step 1: Remove screws (Red circle) *4pcs on FIO Board and then remove FIO BD and cables.
 Step 2 : Remove screws (Blue circle) *5pcs, then remove LED BD1 & 2、LED RIGHT TO MB 3P CABLE and LED LEFT TO RIGHT 3P CABLE.

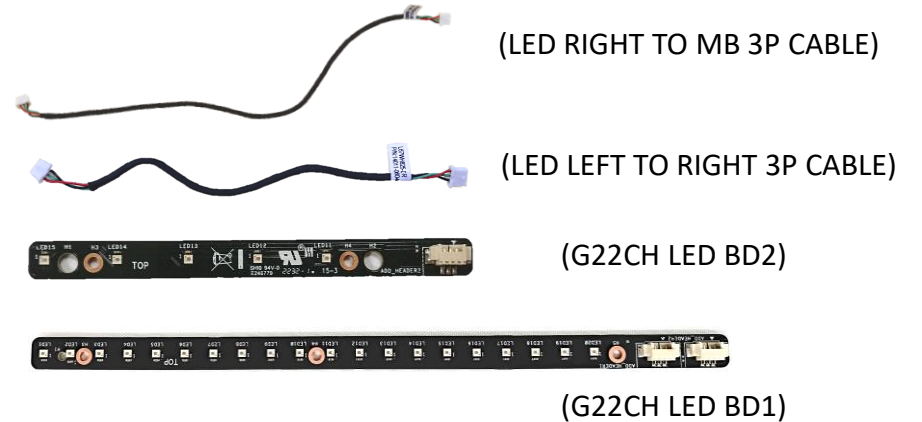
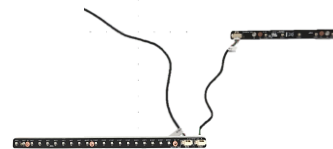
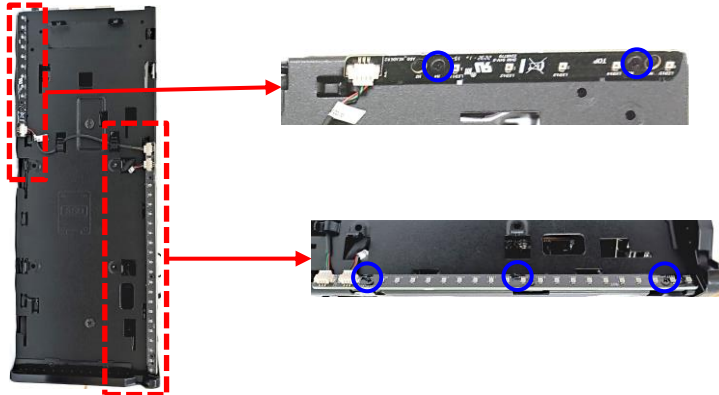
Screws	QTY	Spec	Torque(kgf-cm)
	4	M3*4L(7,2.4) (B+W) #2	6.0±0.5
	5	M2*5L	2.0±0.5



Assembly Notice

When reassembly FIO BD:
Please paste the tape according to the following mark.

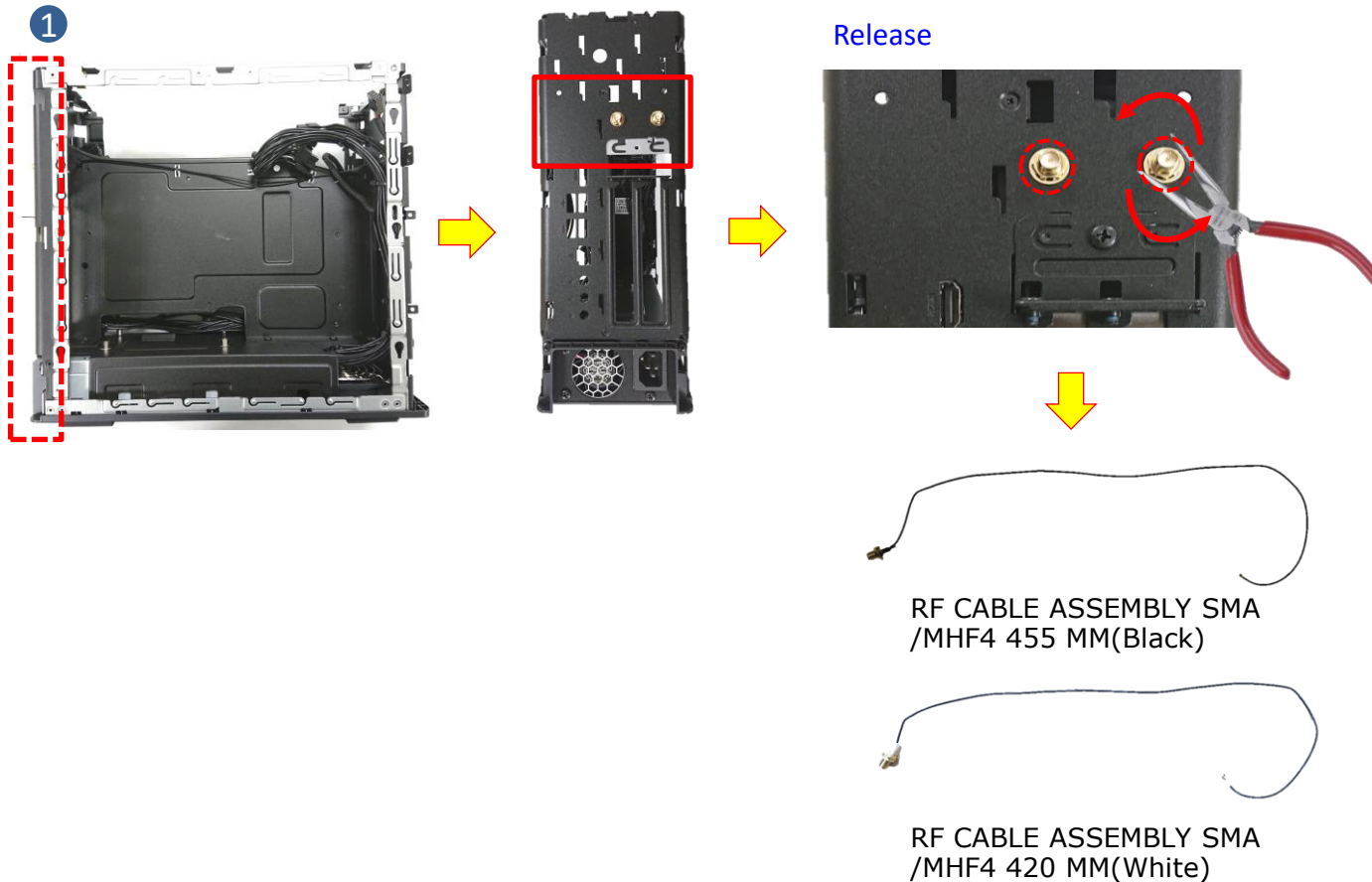
2 Remove



Disassembly Notice

Please be sure to pull out adapter and disconnect the battery.

Step 1 : Release RF connectors by plier, and then remove RF CABLES.



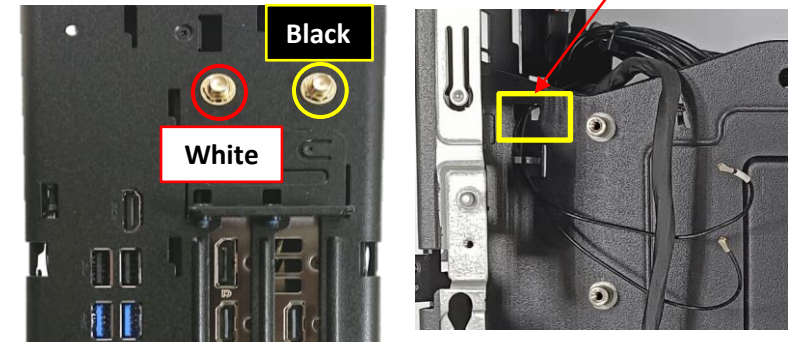
Assembly Notice

Please according to the image below to tidy up RF cables.

Back



Front



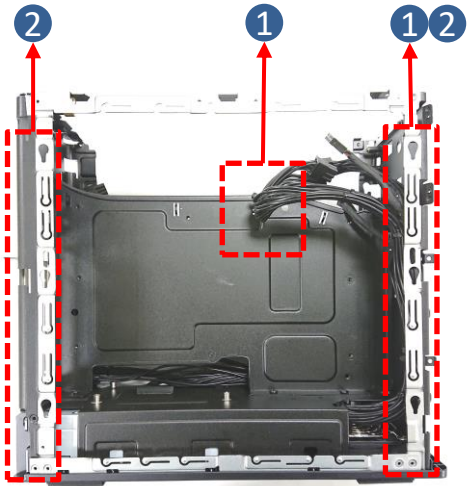
Disassembly Notice

Please be sure to pull out adapter and disconnect the battery.

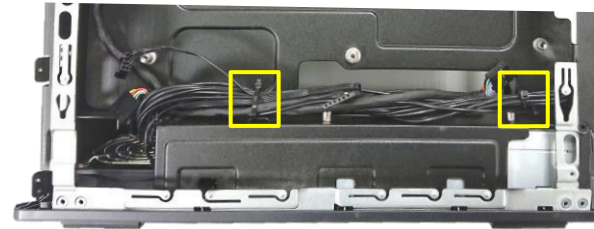
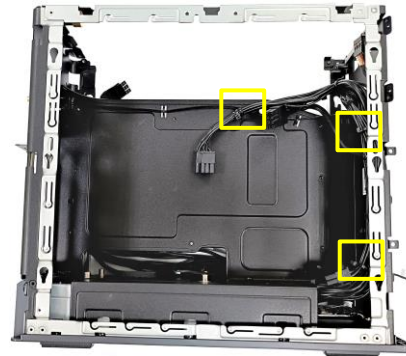
Step 1 : Release cable ties for 5 location, and then remove RISER TO MB 7P CABLE.

Step 2 : Remove screws (Red & Blue Circle)*6pcs, and then remove MB BRIDGE BRKT.

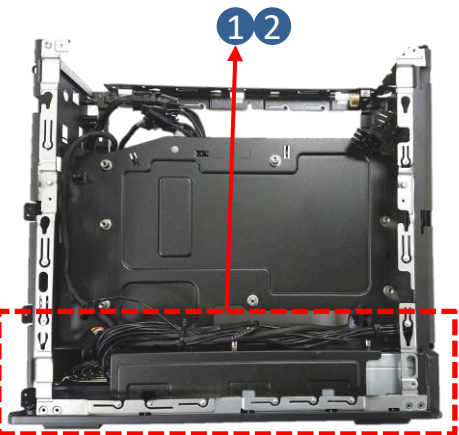
Screws	QTY	Spec	Torque(kgf-cm)
	2	M2.5*4L(4.0,0.7) (F) #1	4.0±0.5
	4	#6-32*6.3L (7.3,2.45)(B)	6.0±0.5



1 Release



(RISER TO MB 7P CABLE)



2 Unscrew

Front





Disassembly Notice

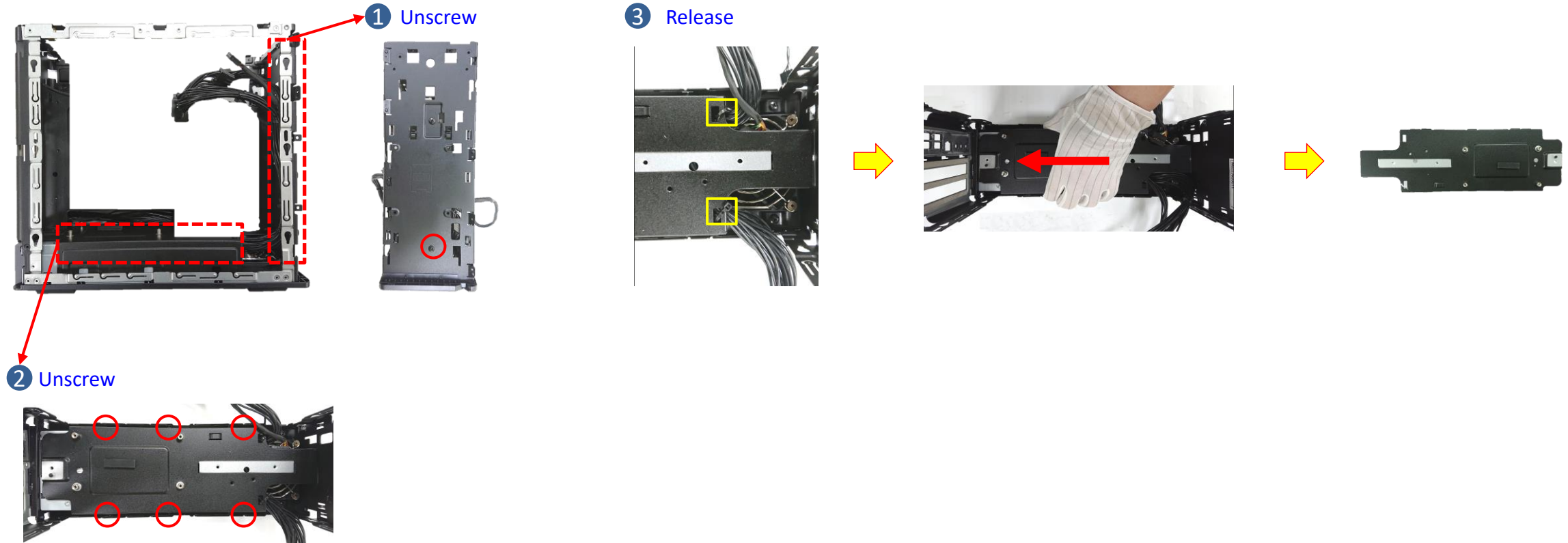
Please be sure to pull out adapter and disconnect the battery. 

Step 1 : Remove screws (Red circle) *1pcs.

Step 2 : Remove screws (Red circle) *6pcs.

Step 3 : Release cable ties for 2 location, and follow direction to remove PSU COVER.


Screws	QTY	Spec	Torque(kgf-cm)
 	7	#6-32*6.3L (7.3,2.45)(B)	6.0±0.5

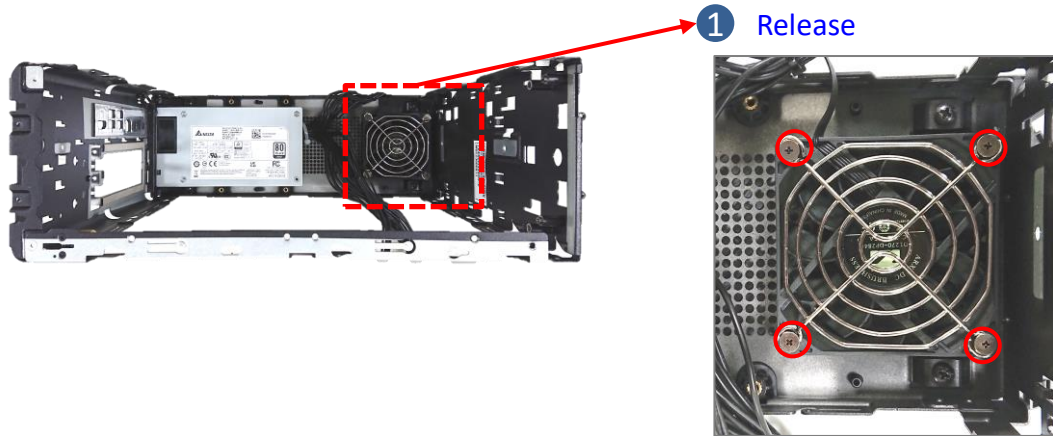


Disassembly Notice

Please be sure to pull out adapter and disconnect the battery. 

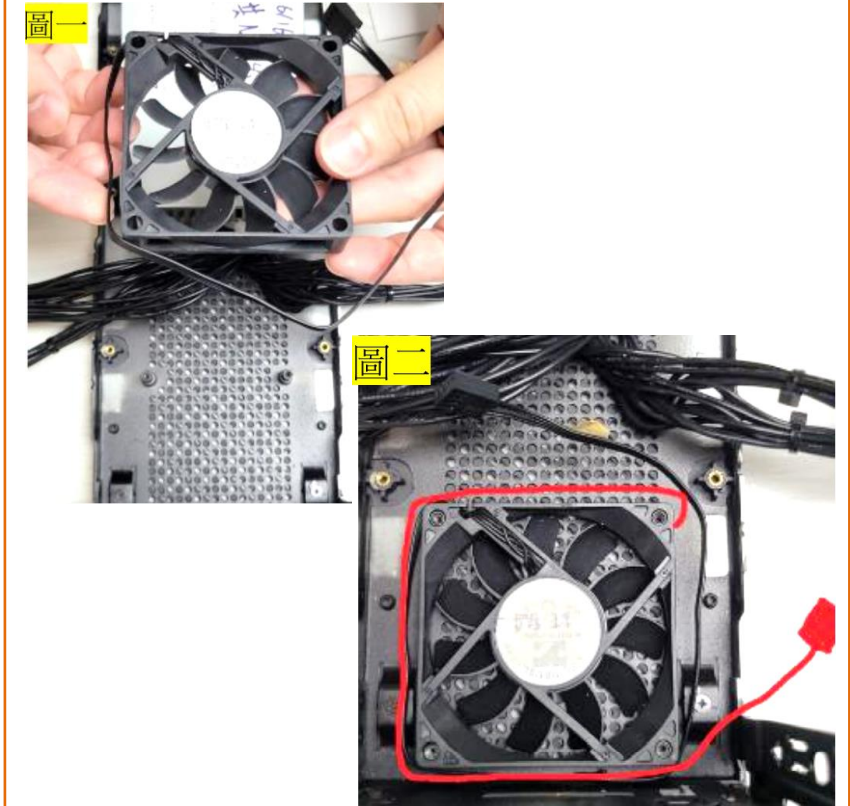
Step 1 : Remove screws *4pcs, then remove SYS FAN 7CM WITH FAN GUARD.

Screws	QTY	Spec	Torque (kgf-cm)
	4	BARTON SCREW M2.5*5 Φ7(K)	4.0±0.5



Assembly Notice

 Please according to the image below to tidy up RF cables.



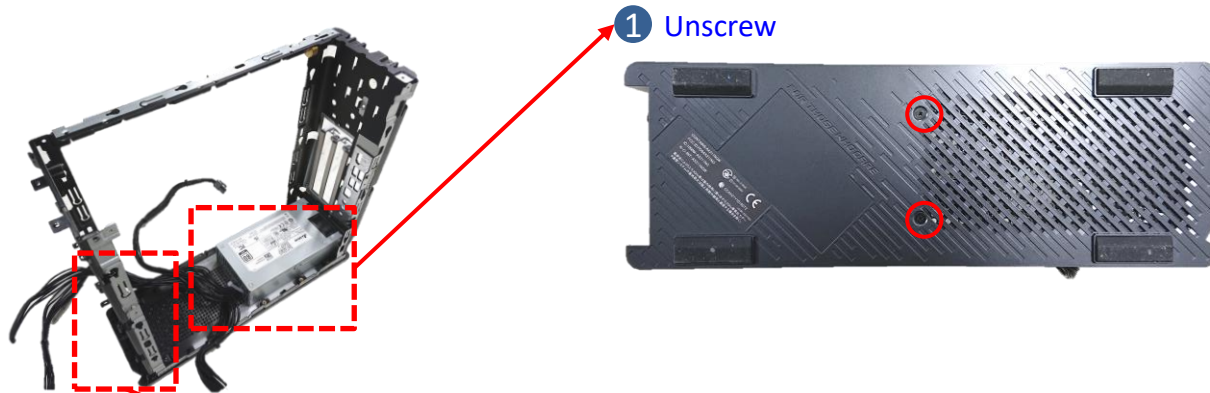
Disassembly Notice

Please be sure to pull out adapter and disconnect the battery.

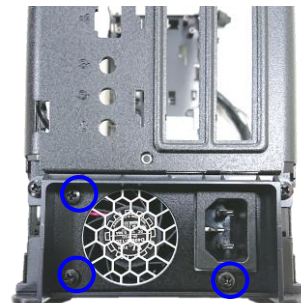
Step 1 : Remove screws (Red circle)*2pcs.

Step 2 : Remove screws (Blue circle)*3pcs and PSU FLEX 600W.

Screws	QTY	Spec	Torque (kgf-cm)
	2	M3*6L (7,1) (F) #1	6.0±0.5
	3	#6-32*6.3L (7.3,2.45)(B)	8.0±0.5



2 Unscrew



Remove



Assembly Notice

Please follow the criteria below to assemble ACETATE CLOTH TAPE and power cables 10PIN&6PIN (0~5mm).

