

Desktop ROG Strix (G10CE)

Service Manual



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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.

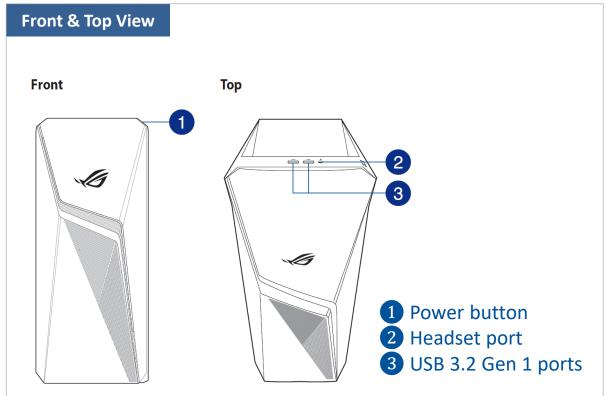


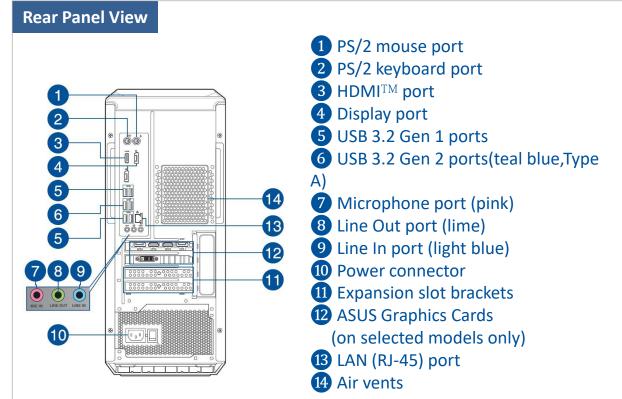
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ASUS Desktop ROG Strix (G10CE) Overview







Components Top View



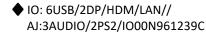








♦ POWER SWITCH **HOLDER**





















♦ CPU

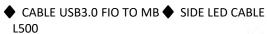












♦ GL10DH SATA CABLE 15P F/P 430MM

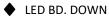


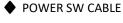
♦ SSD

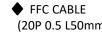


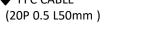
♦ HDD













♦ ANTENNA GASKET

◆ SPNL SCREW PACKAGE













♦ WIFI CARD



LED BD. SIDEUP

♦ USB2.0 CRB TO MB L750 ♦ FFC CABLE

(14P 0.5 L50mm)



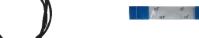


G10CE SUB ASSY











♠ M2 PAD



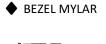
♦ DDR



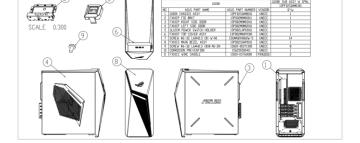




◆ POWER SUPPLY



















Components Bottom View











◆ CPU COOLER











♦ LED BD. UP







♦ CPU



♦ LED BD. DOWN



♦ WIFI CARD



♦ FRONT IO BD



LED BD. SIDEUP





Appropriate Tools

Please prepare and select the appropriate tools to disassemble/assemble for the ROG Strix (G10CE) desktop.

Screwdriver

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

#1 #2



♦ Plastic Blade

♦ Plastic Tweezers

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



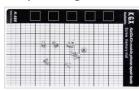
Thickness Gauge

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%



♦ Glove



♦ Dust-free Cloth



♦ Thermal Grease



◆ Cable Tie (Local Buy)





Needle nose pliers





SLIDE DOOR

Disassembly Notice

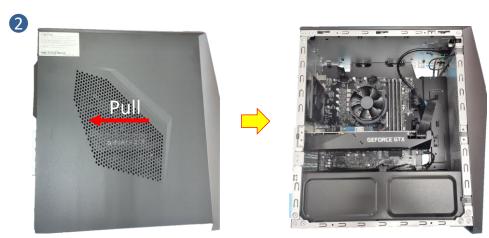
Please be sure to pull out adapter and disconnect the battery.

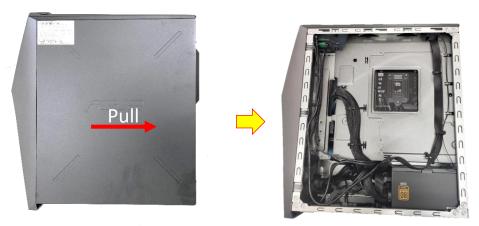


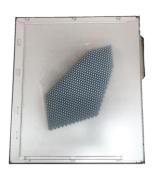
Step 1 : Remove screws *4pcs. Step 2 : Pull the side doors *2pcs.

Screw	Screws QTY Spec		Torque (kgf-cm)	
1 0)	4	#6-32*6.3L (7.3,2.45)(B)//KL,MACHINE NY B-ZN #2	8.0±0.5









SLIDE DOOR (L)



SLIDE DOOR (R)



VGA CARD

Disassembly Notice

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



Step 1 : Disconnect (yellow mark) connector *1pcs.

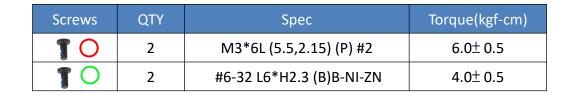
Step 2 : Open the door.

Step 3: Remove screws *4pcs.

Step 4: Press and unlock the VGA card.

Step 5: Take out the VGA card.

GEFORCE GTX

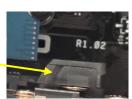


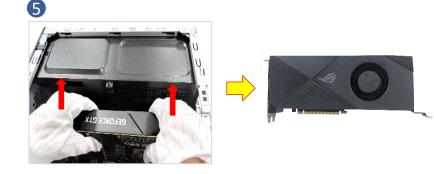














FAN

Disassembly Notice

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

Step 1 : Disconnect (yellow mark) FAN connector *1pcs.

Step 2: Remove 4 screws on the outside of iron grid.

Step 3 : Take out the Fan *1 pcs.

	Screws	QTY	Spec	Torque (kgf-cm)
Ī	0	4	M5*10L (F) W-NI (TP5)	8.0±0.5

Disconnect (yellow mark)





Remove









DDR & SSD CARD

Disassembly Notice

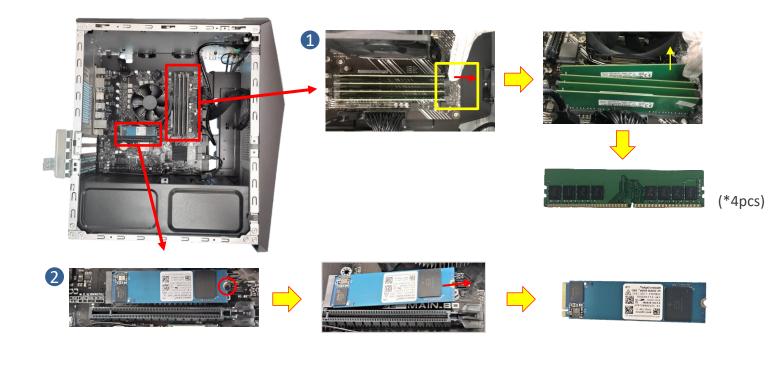
Please be sure to pull out adapter and disconnect the battery.

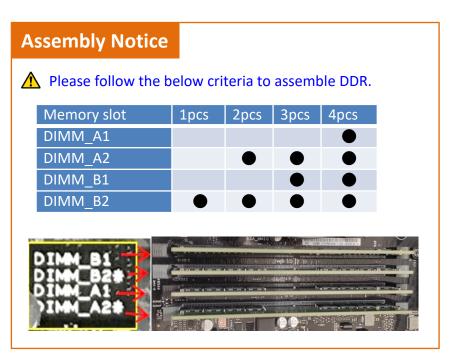


Step 1: Unlock then remove DDR *4pcs.

Step 2 : Remove screw *1pcs then take out the SSD *1pcs.

Screws	Screws QTY Spec		Torque (kgf-cm)
TO	1	M2*3L(4.6,0.8) (K)#1	2.0 ±0.2







2nd M.2 SSD

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





Please follow the below criteria to assemble 2nd M.2 SSD.

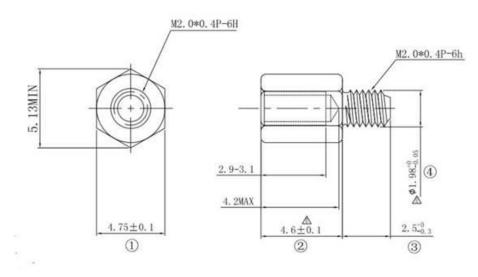
Step-1: Install stand off to lock*1pc (yellow mark).

Step-2: Install M.2 SSD *1pc. Step-3: lock screw *1pc.

ET33			2266 CALVE	2288 (2288) (1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
SKBII CZIO	Zees Autoto	O SEPTICATION OF THE CONTROL OF THE	Alfo-11-A	M.2(WIF1)

Screws	QTY	Spec	Torque (kgf-cm)
Step-1	1	D640MB STAND OFF M2*4.6H*4.75D	3.0 ±0.3
Step-3	1	SCREW M2*3L(4.6,0.8) (K)#1	2.0 ±0.2

STAND OFF





CPU COOLER

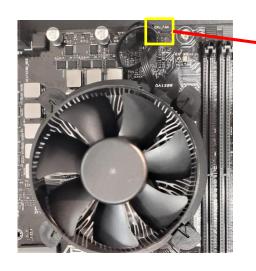
Disassembly Notice

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

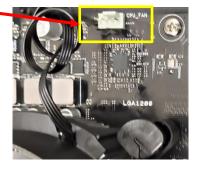


Step 1 : Disconnect CPU_FAN connector. Step 2: Unscrew *4pcs CPU buckle.

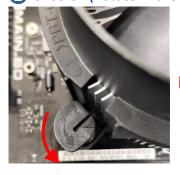
Step 3: Remove the CPU Cooler.



1 Disconnect



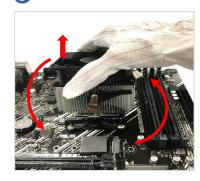




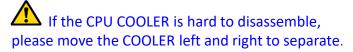




3 Take it out









MAIN BOARD & WIFI CARD & CPU

Disassembly Notice

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

Step 1 : Disconnect (yellow mark) connectors *6pcs. Step 2: Remove screws *8pcs (Red & Blue mark).

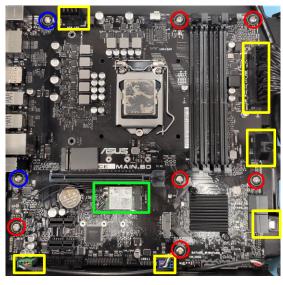
Step 3: Remove screw *1pcs and antenna *2pcs (Green mark).

Step 4: Take out the Main Board.

Step 5 : Remove the CPU.

Screws	QTY	Spec	Torque (kgf-cm)	
	M3*4L (6.3,2.05) (P) #2		6.0±0.5	
	6 #6-32*6L(7.1,2.3) (B) #2		8.0±0.5	
TO	1	M2*3L(5.0,0.8) (K)#1	2.0±0.5	

- Disconnect (Yellow mark)
- Unscrew (Red and Blue mark)



Remove WIFI CARD (Screw *1pcs and antenna *2)





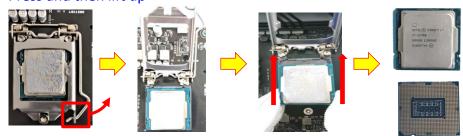




Take out Main Board



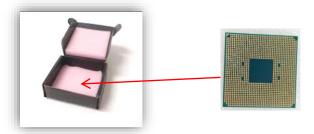
Press and then lift up





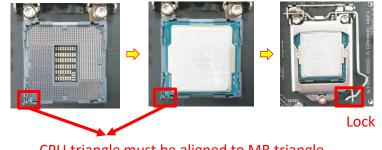


Pin facing down on Processor packaging to protect the CPU.





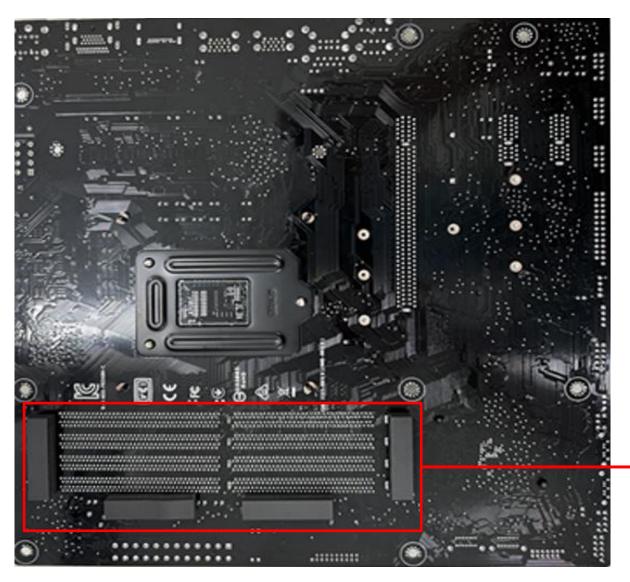
Please follow the instructions to assemble the CPU.



CPU triangle must be aligned to MB triangle.



MAIN BOARD



D700TD MB SPONGE L35 W8 T8//L35 W8 T8



MAIN BOARD with CPU COOLER & CPU

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

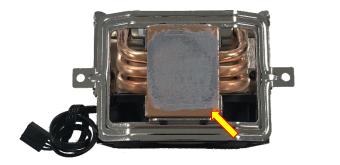




Please make sure that re-smear thermal material on CPU Die, if thermal module have to be reassembled.

Step-1:

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





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).



FRONT COVER AND LED BOARD

Disassembly Notice

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



Step 1	:	Pull	the	latch	slightly	away.
--------	---	------	-----	-------	----------	-------

Step 2: Turn over the front case and disconnect the connectors *3pcs of the cable inside.

Step 3 : Tear off the Mylar.

Step 4 : Disconnect FFC *2pcs.

Step 5 : Remove screws *7pcs.

Step 6 : Disconnect the connector.

Pull the Latch (Blue mark)

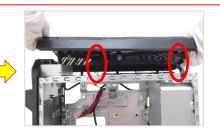
Step 7 : Remove screws *2pcs located on the <u>LED BD. SIDEDOWN</u> .

Step 8 : Take out the LED BD. SIDEDOWN *1pcs.

Screws QTY 7		Spec	Torque (kgf-cm)	
		M3*8L (X) W-NI	4.0±0.5	
TO	2	M2.5*4L (K) B-ZN NY #1	2.5±0.5	

Please notice there have cable retaining on the front case and mainframe.



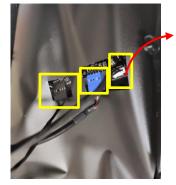


Assembly Notice

If FFC is damage during disassembly, please replace new one. Here are some samples of FFC damage:







3 Tear off





4 disconnect









5 Unscrew











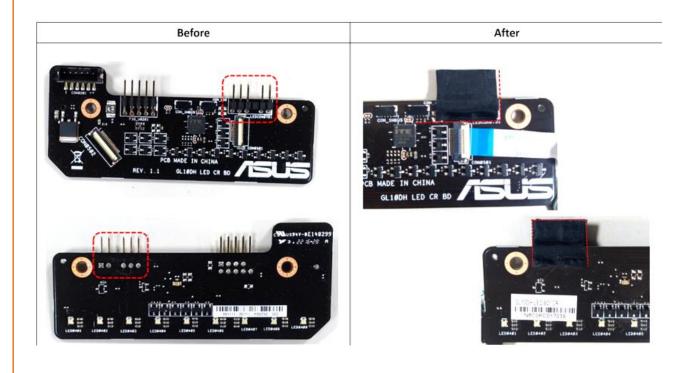


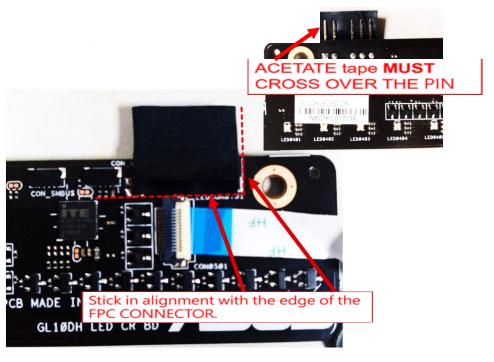
LED CR BD for 2D (Metal side door) SKU only

Assembly Notice

Before assemble cable on LED CR BD, Please add 2pcs ACETATE tape on the LED CR BD Pin as below picture.

QTY	Spec
2	G35CA PINHEADER ACETATE FABRIC







Cable for 2D(Metal side door) and 4D(Plastic side door) only

Assembly Notice

Before assemble two cables, please follow below to paste ACETATE TAPE.

QTY	Spec
2	G15DK USB CABLE ACETATE TAPE

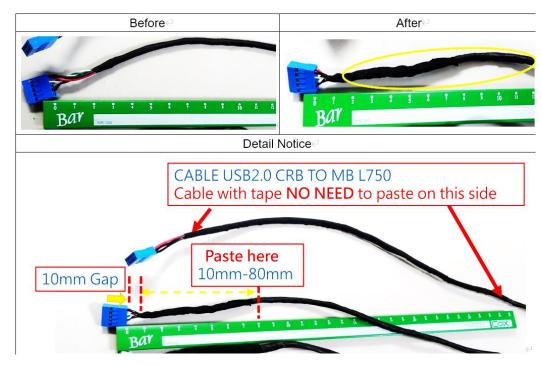
Step1-1: Winding the two cables with ACETATE TAPE to increase the insulation layer.

Step1-2: Double arrow (angle between 10~80mm)

Before After Notice 10mm Gap Paste here 10mm-80mm

Note: The two cables are GL10DH SATA CABLE 15P F/P 430MM and CABLE USB2.0 CRB TO MB L750.

GL10DH SATA CABLE 15P F/P 430MM CABLE USB2.0 CRB TO MB L750





POWER SWITCH

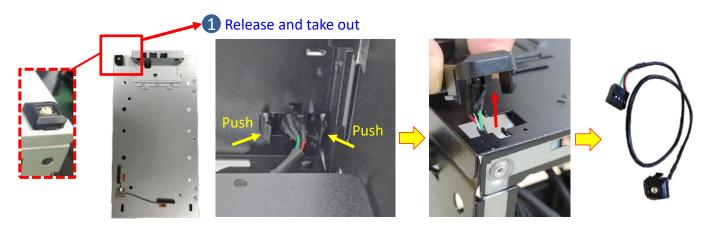
Disassembly Notice

Please be sure to pull out AC POWER CORD.



Step 1: Push hooks then take out POWER SW CABLE with POWER SWITCH HOLDER from CHASSIS.

Step 2: Push hooks then separate POWER SW CABLE and POWER SWITCH HOLDER.



2 Release and separate



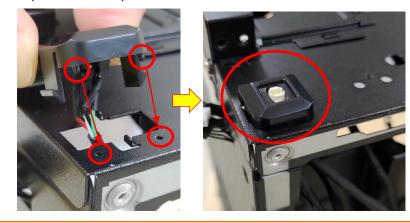
Assembly Notice

When need to reuse old POWER SWITCH HOLDER, please make sure the hooks no broken or deformation.

Please according to below image to assemble POWER SW **CABLE and POWER SWITCH HOLDER.**



Please according to below image to assemble POWER SW CABLE(with HOLDER).





TOP COVER AND FRONT IO BD AND LED BD

Disassembly Notice

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



- Step 1: Disconnect connectors *1pcs and remove screws *3pcs located on the LED BD. SIDEUP.
- Step 2: Remove screws *2pcs.
- Step 3: Pull the latch slightly away from the edge case until it's detached.
- Step 4: Take out the Top Case.
- Step 5: Disconnect connectors *2pcs and remove screw *1pcs on the Front IO BD.
- Step 6: Remove screws *2pcs.
- Step 7: Pull the IO BD bracket.
- Step 8 : Remove Screws *2pcs.
- Step 9: Remove the Front IO BD.

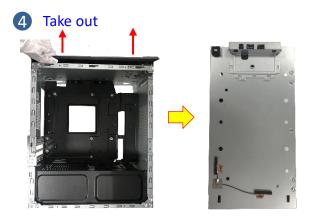
Screws	QTY	Spec	Torque (kgf-cm)
T 0 3		M2.5*4L (K) B-ZN NY #1	2.5±0.5
a 4		#6-32 L6*H2.3 (B) W-NI//UNEEC	8.0±0.5
3		M3*4L (6.3,2.05) (P) #2	6.0±0.5









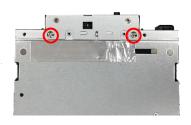
















Unscrew



Remove









FIO USB CABLE

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





Please follow the below criteria to assemble FIO USB CABLE.

Step-1: Make sure the acetate is attached to the Cable plug.

Step-2: Make sure the acetate is attached to the connector.

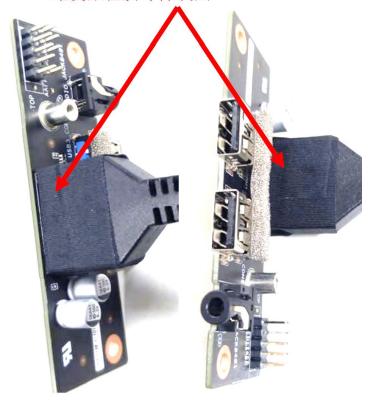
Step-3: Make sure the acetate is securely attached to the surface of the part on each side when wrapping.



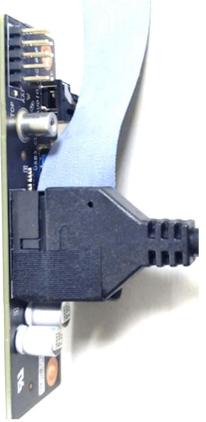


3 Confirm













Disassembly Notice

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

Step 1 : Remove screws *4pcs.

Step 2 : Disconnect the connectors *2pcs.

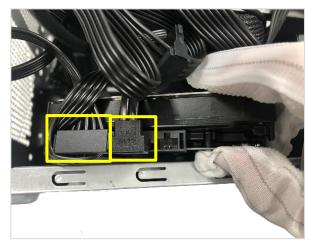
Step 3: Take out the HDD.

Screws	QTY	Spec	Torque (kgf-cm)
	4	SCREW #6-32*6L(7.1,2.3) (B) #2	6.5±0.5

Unscrew













POWER SUPPLY

Disassembly Notice

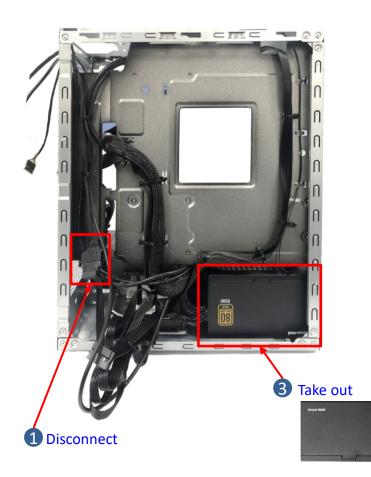
Please be sure to pull out adapter and disconnect the battery.

Step 1 : Disconnect the connector *1pcs.

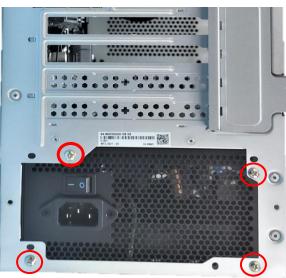
Step 2 : Remove screws *4pcs.

Step 3: Take out the POWER SUPPLY.

Screws	QTY	Spec	Torque (kgf-cm)
0	4	#6-32*6L(7.1,2.3) (B) #2	8.0±0.5









WIFI MAIN ANTENNA

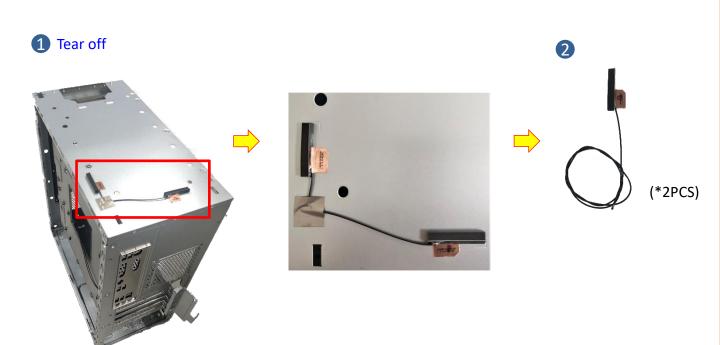
Disassembly Notice

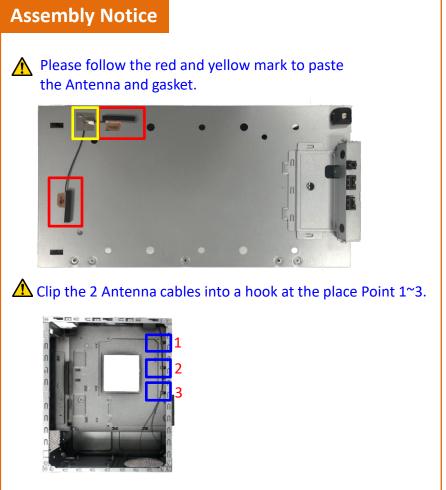
Please be sure to pull out adapter and disconnect the battery.



Step 1: Tear off the Gasket and ANTENNA*2pcs.

Step 2 : Take out ANTENNA.







CABLE ASSEMBLY

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





Tidy up the cable of the back mainframe as illustrated.

