

Desktop ROG Strix (G15DK)

Service Manual

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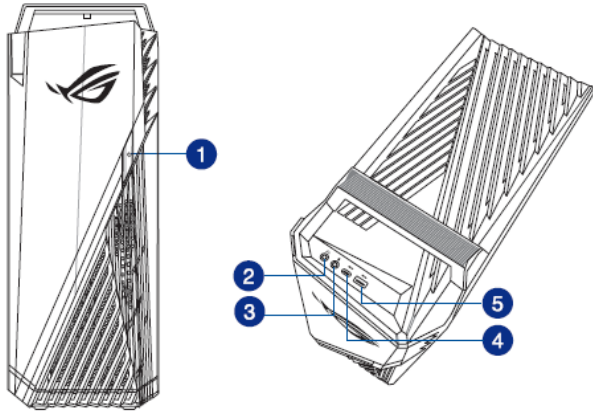
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Safety precautions

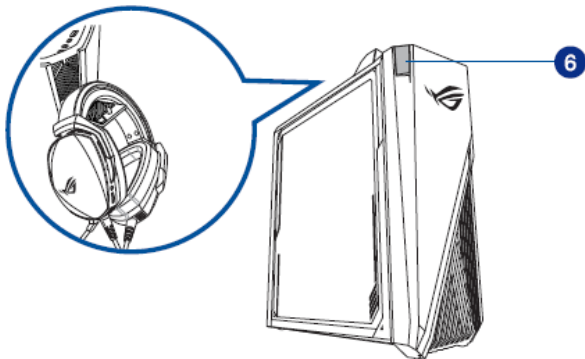
- Before handling components, use a grounded wrist strap or touch a safely grounded object to avoid damaging them due to static electricity.
- Keep liquids or moisture away from your Notebook PC to avoid short circuits.
- Remove rings, watches, and any other metal objects from your hands.
- Hold components 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.

- [ASUS Desktop ROG strix G15DK Overview](#)
- [Components Top View](#)
- [Components Bottom View](#)
- [Components top View \(For Glass version\)](#)
- [Appropriate Tools](#)
- Disassembly steps :
 - [SLIDE DOOR](#)
 - [VGA CARD](#)
 - [DDR & SSD CARD](#)
 - [WIFI CARD & M.2 WIFI CARD](#)
 - [FAN](#)
 - [MAIN BOARD with CPU COOLER & CPU](#)
 - [FRONT COVER AND LED BOARD](#)
 - [POWER SWITCH](#)
 - [TOP COVER](#)
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 - [HDD](#)
 - [POWER SUPPLY](#)
 - [WIFI MAIN ANTENNA](#)
 - [CABLE ASSEMBLY](#)

Front & Top View

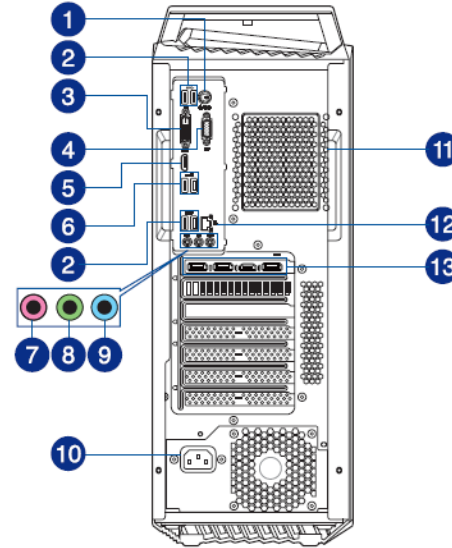


- 1 Power button
- 2 Headphone port
- 3 Microphone port
- 4 USB 3.2 Gen 1 Type-C® port
- 5 USB 3.2 Gen 1 port



- 6 Headset hanger

Rear Panel View



- 1 PS/2 keyboard/mouse combo port
- 2 USB 3.2 Gen 1 ports
- 3 DVI-D port
- 4 VGA port
- 5 HDMI™ port.
- 6 USB 3.2 Gen 2 ports
- 7 Microphone port (pink)
- 8 Line Out port (lime)
- 9 Line In port (light blue)
- 10 Power connector
- 11 Air vents
- 12 LAN (RJ-45) port
- 13 ASUS Graphics Cards
(on selected models only)

Components Top View

◆ VGA Card



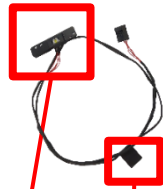
◆ D700TA M2 PAD 25X20X7



◆ LED CR BD



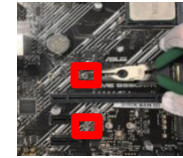
◆ POWER SW CABLE



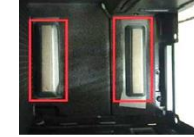
◆ HDD SATA CABLE



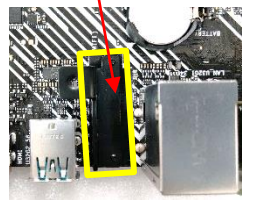
◆ D640MB STAND OFF M2*4.6H*4.75D



◆ GA15DH PSU GASKET



◆ VRM HS SUP BKT



◆ DDR



◆ FAN



◆ GA15DH FRONT LENS FOIL



◆ CABLE CONDUCTIVE CLOTH



◆ AUDIO CABLE



◆ WIFI MAIN ANTENNA



◆ CONDUCTIVE CLOTH
RF1 CONDUCTIVE CLOTH



◆ USB CABLE ACETATE TAPE



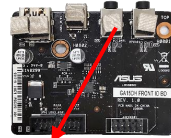
◆ SSD



◆ CPU COOLER



◆ FRONT IO BD



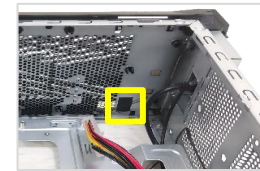
◆ CABLE USB WIFI TO MB



◆ CR BD POWER CABLE



◆ RF ACETATE TAPE



◆ VRM HS SUP BKT MYLAR



◆ FIO GASKET

◆ WIFI CARD



◆ MAIN BOARD



◆ HDD



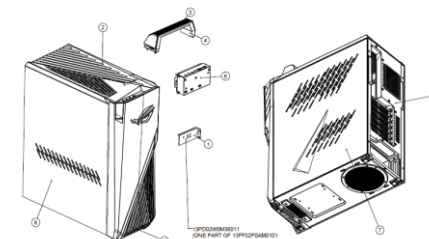
◆ FIO USB CABLE



◆ FRONT LENS GASKET



◆ G15CK SUB ASSY



◆ M.2 WIFI CARD



◆ CPU SOCKET



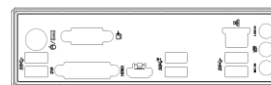
◆ POWER SUPPLY



◆ USB2.0 CABLE



◆ X500MA IO: 6USB/VGA/DVI/HDMI BLK



ASUS PART TABLE						
ITEM	ASUS P/N	DESCRIPTION	1P1P(OP)PARTNO	1P1P(OP)PARTNO	QTY	NOTE
1	1P1P(OP)AS010	GRACE CHASSIS ASSY	V	V	1	1P1P(OP)AS010-1P1P(OP)AS010
2	1P1P(OP)AS010	GRACE CHASSIS ASSY	V	V	1	1P1P(OP)AS010-1P1P(OP)AS010
3	1P1P(OP)AS011	GA15DH TOP COVER	V	V	1	1P1P(OP)AS011-1P1P(OP)AS011
4	1P1P(OP)AS011	GA15DH HANDLE COVER	V	V	1	1P1P(OP)AS011-1P1P(OP)AS011
5	1P1P(OP)AS011	GA15DH FRONT BEZEL ASSY	V	V	1	1P1P(OP)AS011-1P1P(OP)AS011
6	1P1P(OP)AS011	GA15DH PAD BRKT	V	V	1	1P1P(OP)AS011-1P1P(OP)AS011
7	1P1P(OP)AS011	GA15DH METAL DOORBL	V	V	1	1P1P(OP)AS011-1P1P(OP)AS011
8	1P1P(OP)AS011	GA15DH METAL DOORBL	V	V	1	1P1P(OP)AS011-1P1P(OP)AS011
9	1P1P(OP)AS011	SCREW M2.5X1.2 (BY IN)	V	V	4	1P1P(OP)AS011-1P1P(OP)AS011
10	1P1P(OP)AS011	SCREW M2.5X1.2 (BY IN)	V	V	1	1P1P(OP)AS011-1P1P(OP)AS011
11	1P1P(OP)AS011	SCREW M2.5X1.2 (BY IN)	V	V	2	1P1P(OP)AS011-1P1P(OP)AS011
12	1P1P(OP)AS011	SCREW M2.5X1.2 (BY IN)	V	V	1	1P1P(OP)AS011-1P1P(OP)AS011
13	1P1P(OP)AS011	SCREW M2.5X1.2 (BY IN)	V	V	2	1P1P(OP)AS011-1P1P(OP)AS011
14	1P1P(OP)AS011	SCREW M2.5X1.2 (BY IN)	V	V	1	1P1P(OP)AS011-1P1P(OP)AS011
15	1P1P(OP)AS011	SCREW M2.5X1.2 (BY IN)	V	V	1	1P1P(OP)AS011-1P1P(OP)AS011

◆ VGA Card



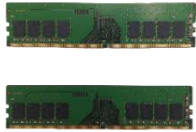
◆ FAN



◆ MB PLATE AL
FOIL



◆ DDR



◆ MAIN BOARD



◆
SSD



◆ CPU SOCKET



◆ WIFI CARD



◆ LED CR BD



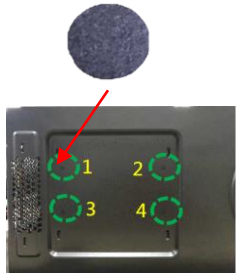
◆ M.2 SSD



◆ FRONT IO BD

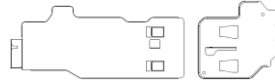


◆ HDD SCREW MYLAR



Tighten HDD screws and paste the Mylar on the case when assembling.

◆ MID BKT ASSY



◆ VRM SINK



◆ GA15DH TOP LED BD



◆ GA15DH SIDE LED BD



◆ GA35DX GLASS DOOR ASSY



◆ TOP LED BD CABLE



◆ GA35DX GLASS DOOR ASSY



◆ GLASS LED CABLE



Please prepare and select the appropriate tools to disassemble/assemble for the ROG Strix (G15DK) desktop.

◆ Screwdriver

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



◆ Plastic Blade



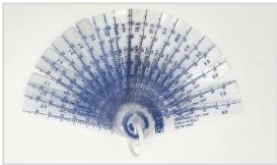
◆ Plastic Tweezers

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



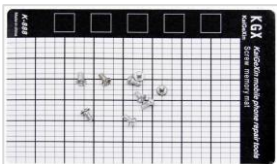
◆ Thickness Gauge

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)



◆ Glove



◆ Dust-free Cloth



◆ Needle nose pliers



Disassembly Notice

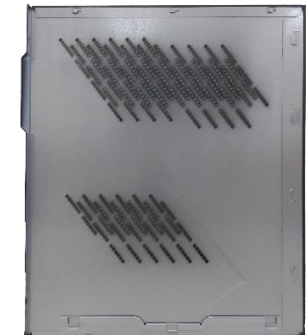
Please be sure to pull out adapter and disconnect the battery.

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

Screws	QTY	Spec	Torque (kgf-cm)
	4	SCREW #6-32 L6*H2.3 (B)B-NI-ZN	8.0±0.5



SLIDE DOOR (L)



SLIDE DOOR (R)


Disassembly Notice

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

Step 1 : Remove screws *2pcs.

Step 2 : Press and unlock the VGA card.

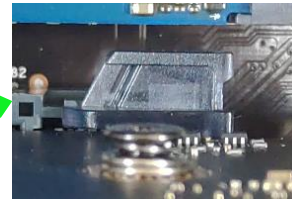
Step 3 : Take out the VGA card.

Screws	QTY	Spec	Torque(kgf-cm)
	2	SCREW #6-32*L6 (B)B-NI-ZN NY	4.0± 0.5

1



2 Press



3



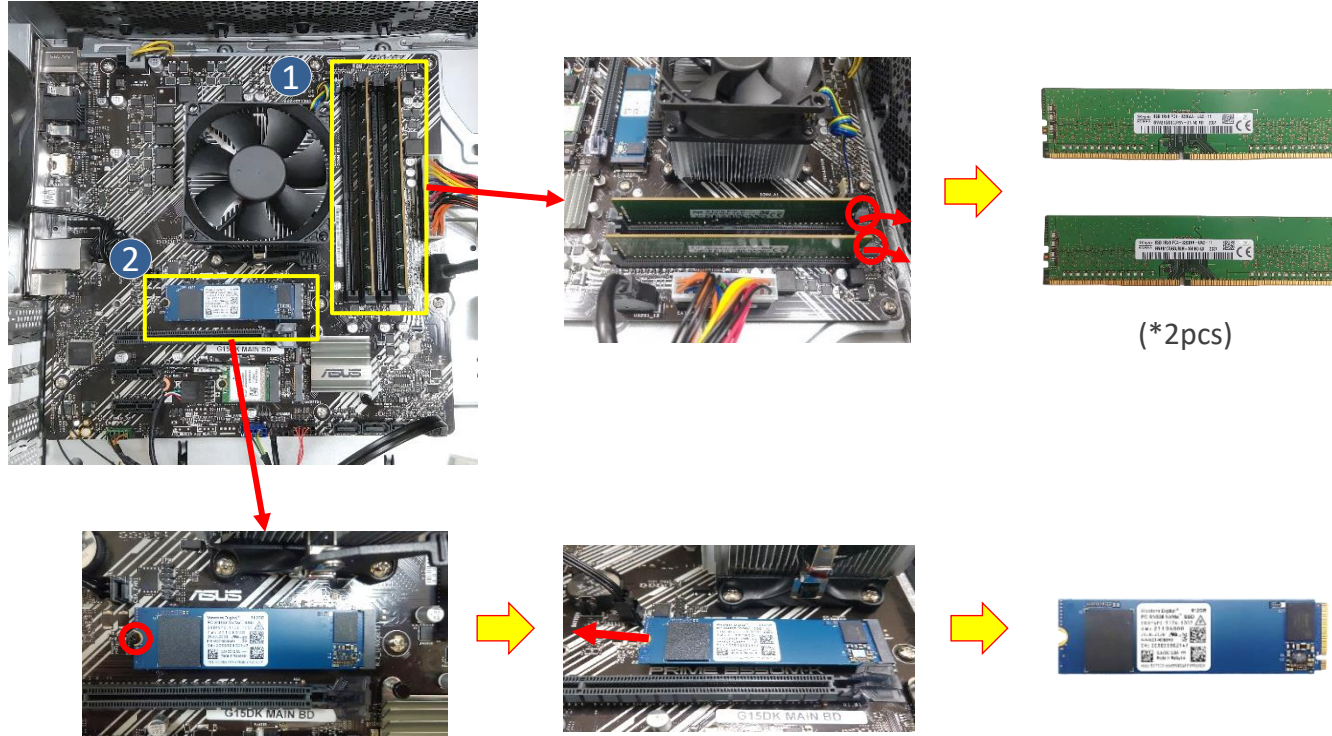
Disassembly Notice

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

Step 1 : Unlock then remove DDR *2pcs.

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

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



Assembly Notice

Please follow the below criteria to assemble DDR.

Memory slot	1pcs	2pcs	3pcs	4pcs
DIMM_A1				●
DIMM_A2		●	●	●
DIMM_B1			●	●
DIMM_B2	●	●	●	●



Disassembly Notice

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

Step 1 : Disconnect the RF CABLE (connectors)*2pcs.

Step 2 : Remove the screw *1pcs.

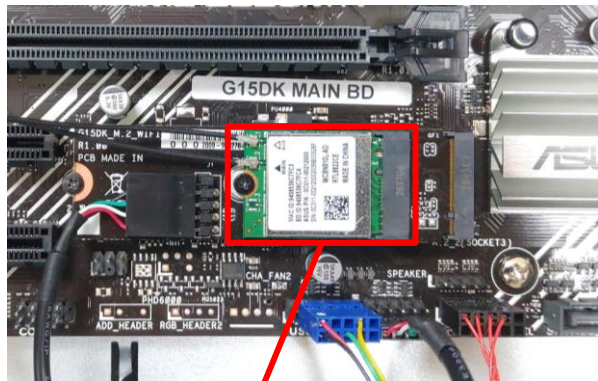
Step 3 : Remove WIFI CARD.

Step 4 : Disconnect CABLE USB WIFI TO MB connector *1pcs.

Step 5 : Remove the screw *1pcs.

Step 6 : Remove M.2 WIFI CARD.

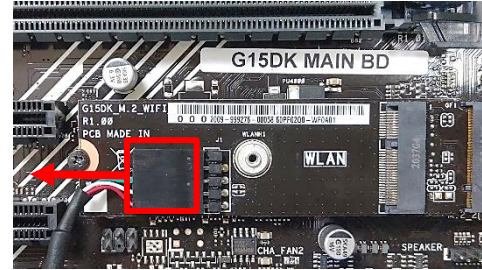
Screws	QTY	Spec	Torque (kgf-cm)
	2	M2*3L(4.6,0.8) (K)#1	2.0±0.2



2



4



3



5



1 Disconnect

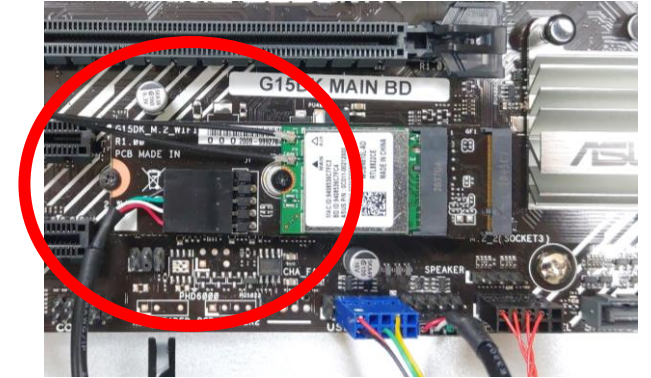


6



Assembly Notice

Please according to below image to assemble RF cable.




Disassembly Notice

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

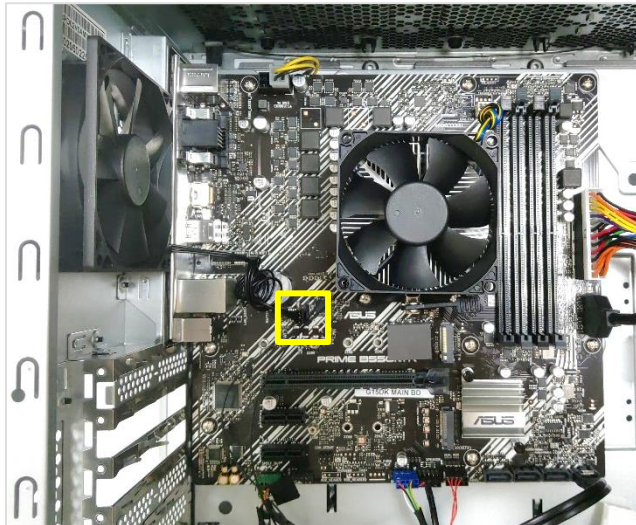
Step 1 : Disconnect (yellow mark) FAN connector *1pcs.

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

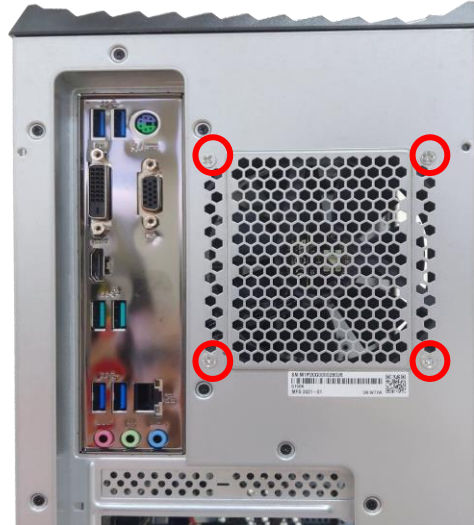
Step 3 : Take out the Fan*1 pcs.

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

① Disconnect (yellow mark)



② Remove



③



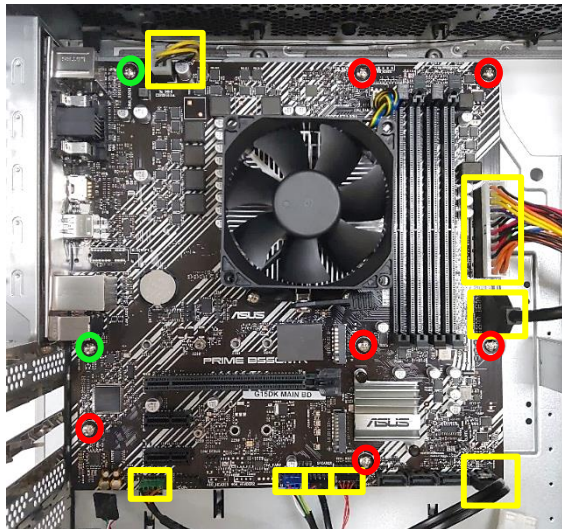
Disassembly Notice

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

- Step 1 : Disconnect (yellow mark) connectors *8pcs.
- Step 2 : Remove screws *8pcs (Red and green mark).
- Step 3 : Take out the Main Board.
- Step 4 : Remove the CPU Cooler.
- Step 5 : Remove the CPU.
- Step 6 : Remove the CPU Cooler socket

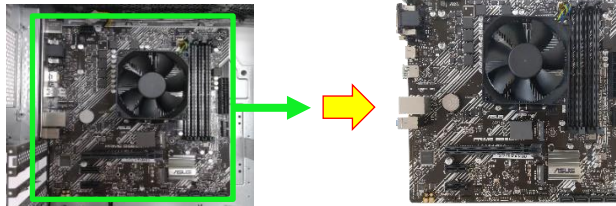
Screws	QTY	Spec	Torque (kgf-cm)
	2	M3*4L (6.3,2.05) (P) #2	6.0±0.5
	6	SCREW #6-32 L6*H2.3 (B) W-NI	8.0±0.5

1 Disconnect (yellow mark)

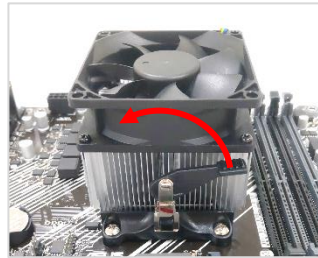


2 Unscrew (Red and green mark)

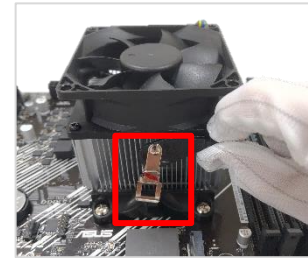
3 Take out Main Board



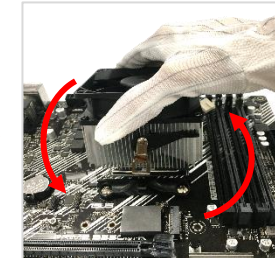
4 Unlock



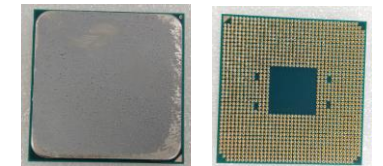
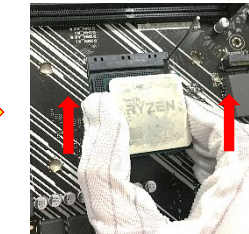
Loose



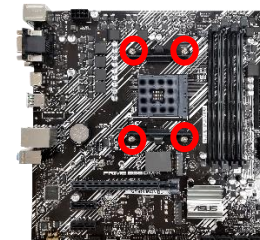
Remove



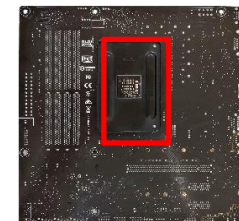
5 Lift up



6 Unscrew



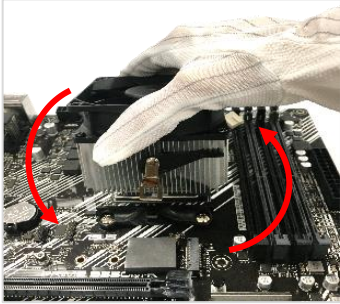
Remove



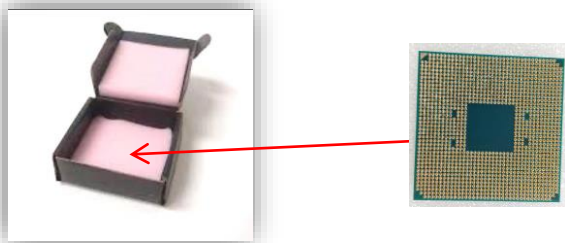
CPU COOLER Disassembly Notice



If the CPU COOLER is hard to disassemble, please move the COOLER left and right to separate.



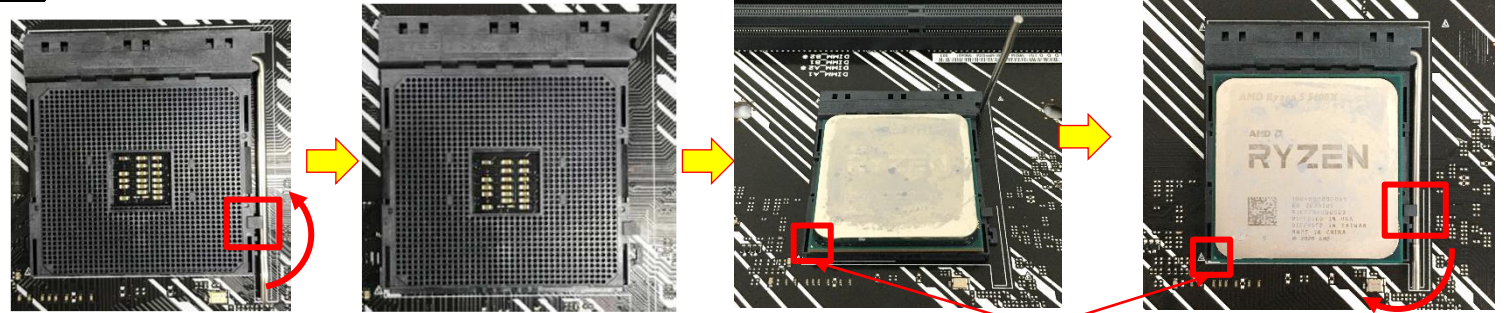
Pin facing down on Processor packaging to protect the CPU.



Assembly Notice



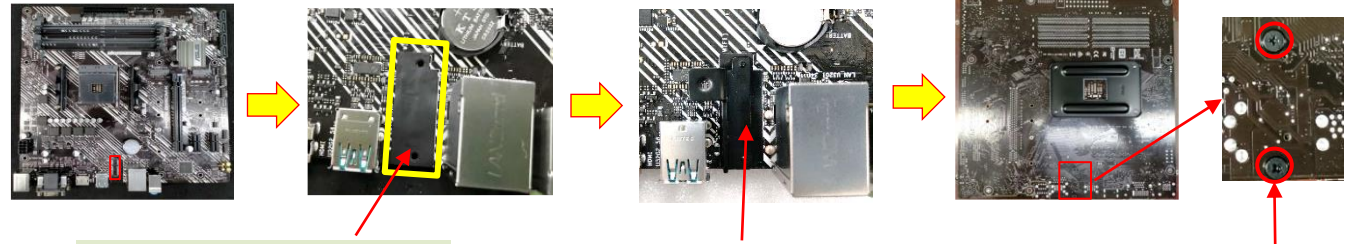
Please follow the instructions to assemble the CPU.



CPU triangle must be aligned to MB triangle



Please follow the instructions to assemble MAIN BOARD.



G15DK VRM HS SUP BKT MYLAR

G15DK VRM HS SUP BKT

SCREW M2*4L+MYLAR D6.5X1.7 BLK
3.0kgf-cm +/- 0.3

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).

Disassembly Notice

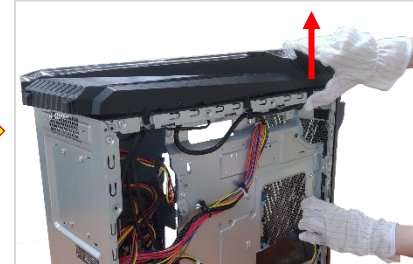
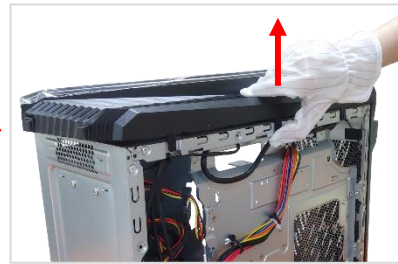
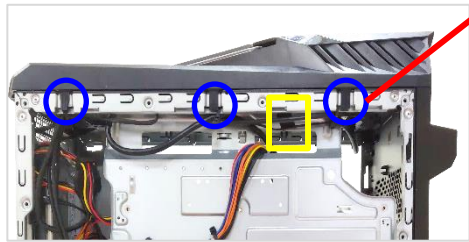
Please be sure to pull out adapter and disconnect the battery.

- Step 1 : Tear the CABLE CONDUCTIVE CLOTH and loose the POWER SW CABLE.
- Step 2 : Pull the latch slightly away.
- Step 3 : Disconnect the connectors *2pcs of the cable inside.
- Step 4 : Turn over the front case and Remove screws *2pcs.
- Step 5 : Tear the FRONT LENS FOIL slightly (Yellow mark).
- Step 6 : Remove screws *3pcs located on the LED board.
- Step 7 : Take out the LED CR BD *1pcs.

Screws	QTY	Spec	Torque (kgf-cm)
	2	M2.5*5L (4.6,1.7) (P) #1	3.0±0.5
	3	M2.5*4.2L(7.3,2.3) (P)+W	4.0±0.5

1 Tear TAPE (Yellow mark)

2 Pull the Latch (Blue mark)



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



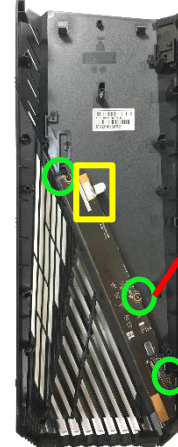
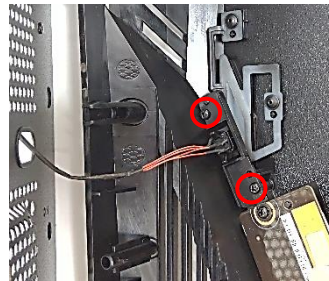
3 Disconnect

4 Turn over

Unscrew

5 Tear off (Yellow mark)

6 Unscrew (Green mark)



Disassembly Notice

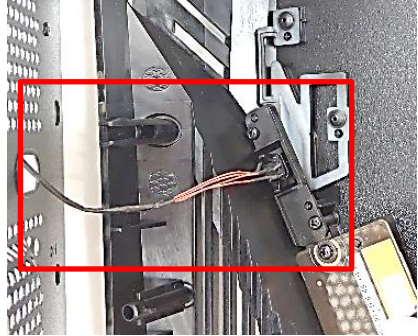
Please be sure to pull out AC POWER CORD.



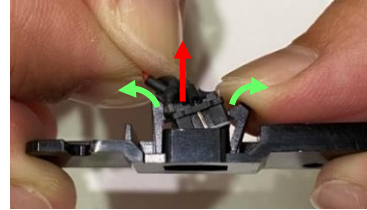
Step 1 : remove POWER SWITCH HOLDER with POWER SW CABLE from front case.

Step 2 : Release hooks (green mark) then take out POWER SW CABLE from POWER SWITCH HOLDER.

1 Remove



2 Release hooks



GA15DH POWER SW CABLE



POWER SWITCH HOLDER



Assembly Notice

⚠ Please follow the steps below to assemble POWER SWITCH HOLDER and POWER SW CABLE.

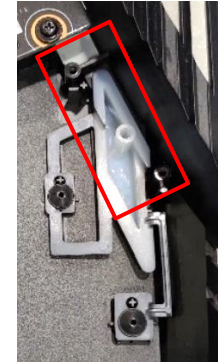
POWER SWITCH HOLDER



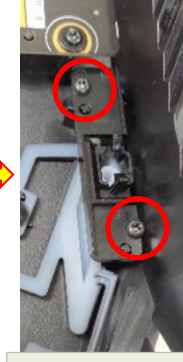
POWER SW CABLE



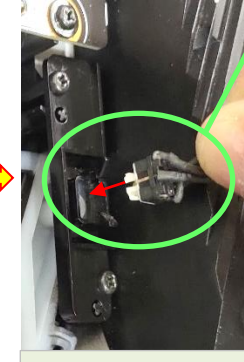
1 Assemble POWER SWITCH HOLDER on the front case.



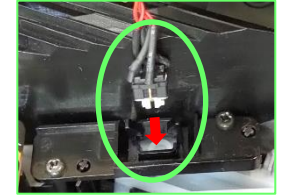
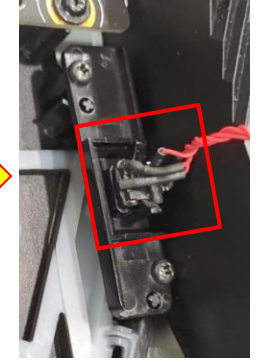
Tighten screws*2pcs



2 Assemble POWER SW CABLE.



Follow the directions mark in green, Insert down into the hole.



3 Tidy up cable and paste tape.



*When inserting the switch cable into the holder, please make sure the hooks no broken or deformation.

*After finishing the assembly process, press the power button to ensure the power button function is OK. (It has a click feeling is OK)

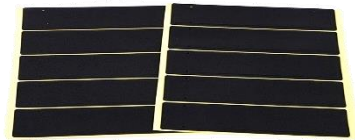
FRONT BEZEL Assembly Notice

NOTE! Before assembling the FRONT BEZEL ASSY, please carefully read the following assembly instructions.

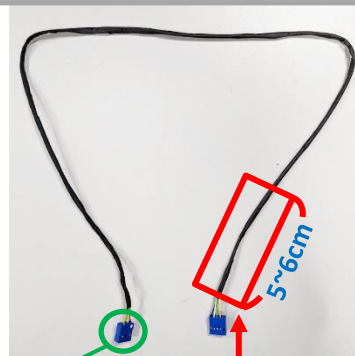
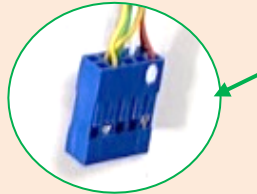
When assembling the LED board, USB cable and power cord on the FRONT BEZEL ASSY, please make sure that the USB cable and power cord do not touch the PIN HEADER of the LED board, otherwise it may cause a short circuit and overheating. Please follow the steps below to confirm and assemble the power cord, USB cable, LED board.

Step-1 Please use **ACETATE TAPE** to wrap one end of the POWER Cable and USB Cable.

USB CABLE ACETATE TAPE (11*2cm)
*2pcs



Connector with white spot mark, this end of the wire **no need** to use ACETATE TAPE to wrap and cover the Cable.



USB Cable wrapping acetate tape area



Power Cable wrapping acetate tape area



After wrapping with acetate tape

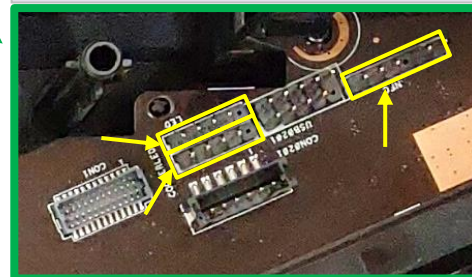


Step-2 Paste **PINHEADER ACETATE FABRIC *3pcs** to cover some of the pin headers on the LED control board.

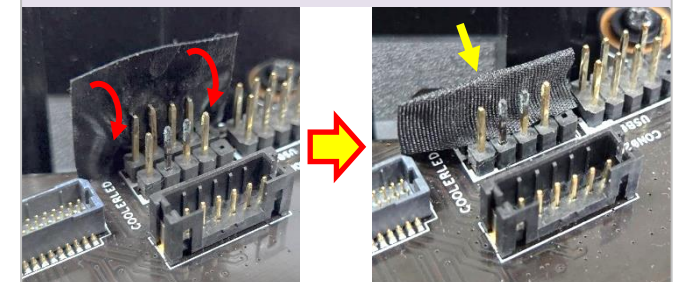
PINHEADER ACETATE FABRIC (15*15mm) *3pcs



Paste **ACETATE FABRIC** to cover pin headers area

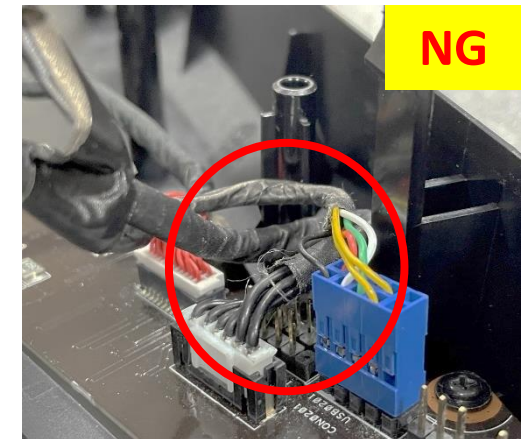
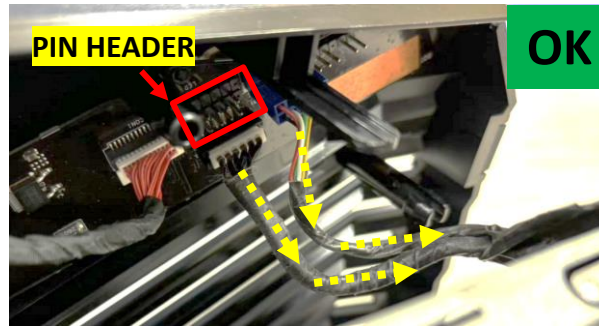
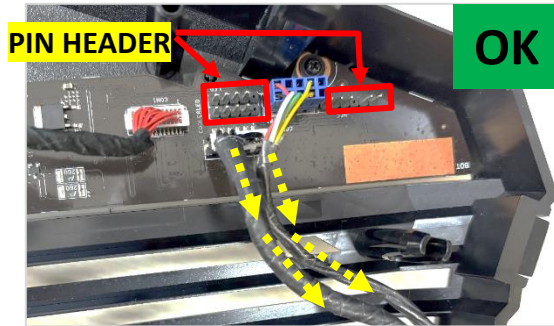


Steps to Paste **ACETATE FABRIC** to cover pin headers

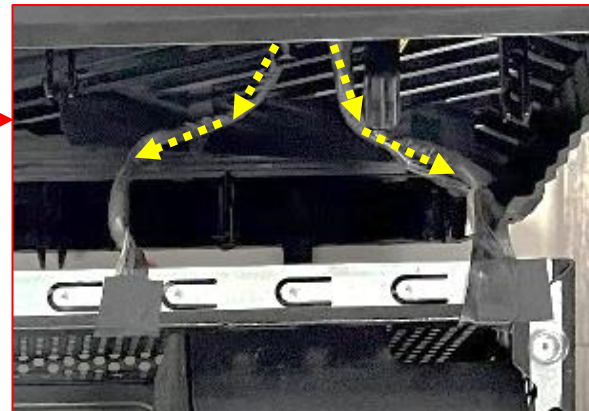


FRONT BEZEL Assembly Notice

Step-3 After connecting the POWER and USB cable to the LED board, **please tidy up the cables in the direction of the yellow arrow and be careful to avoid the PIN HEADER** (marked in red).





Step-4 Check that the cable direction must follow the yellow arrow, paste tape to fix then reassemble the FRONT BEZEL ASSY.



Disassembly Notice

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

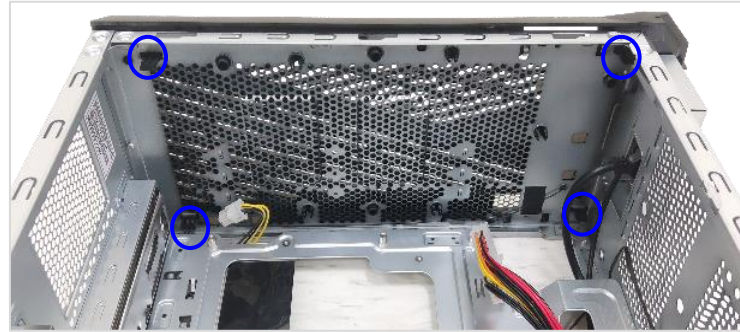
- Step 1 : Use the Plastic Blade to Remove the Handle case.
- Step 2 : Remove screws *2pcs located on the end of the Handle.
- Step 3 : Pull the latch slightly away from the edge case until it's detached.
- Step 4 : Take out the Top Case.

Screws	QTY	Spec	Torque (kgf-cm)
 	2	SCREW M2.5*6L (5.5,0.8) (K) #1//KL,MACHINE NY B-ZN	3.0±0.5

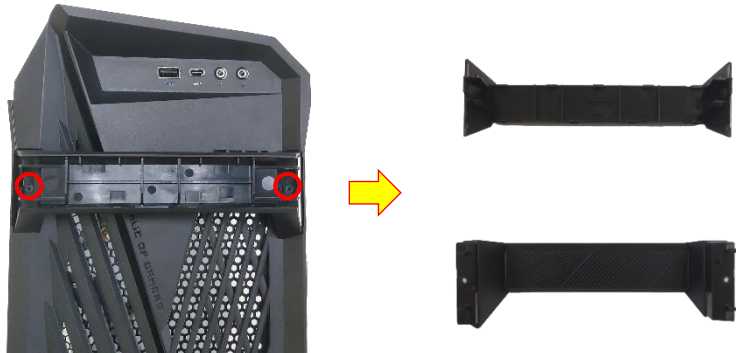
1



3 Pull the Latch (Blue mark)



2



4



Disassembly Notice

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

Step 1 : Remove screws *2pcs.

Step 2 : Disconnect the USB 3.0 cable and Audio cable.

Step 3 : Remove screws *2pcs.

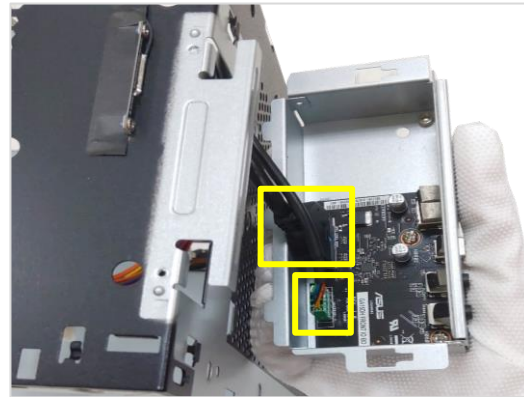
Step 4 : Separate FRONT IO BOARD and bracket.

Screws	QTY	Spec	Torque (kgf-cm)
	2	M2.5*4L (K) B-ZN NY #1	3.0±0.3
	2	M3*4L (6.3,2.05) (P)	6.0±0.5

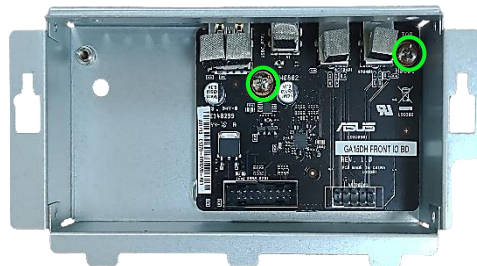
1 Unscrew



2 Disconnect



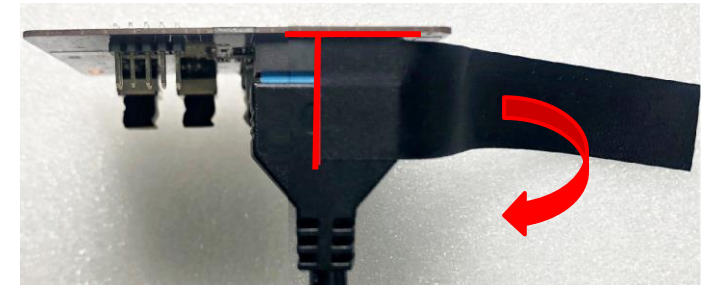
3 Unscrew



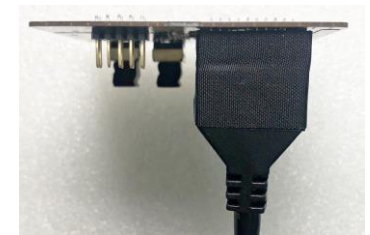
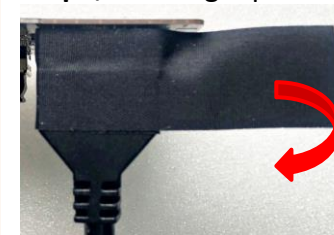
Assembly Notice

When assemble FIO USB cable on FRONT IO BOARD , please follow below steps to paste USB CABLE ACETATE TAPE.

Step1, Taking the ACETATE TAPE to align the centerline and parallel to the IO BOARD.



Step2, Winding it parallel.





Disassembly Notice

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

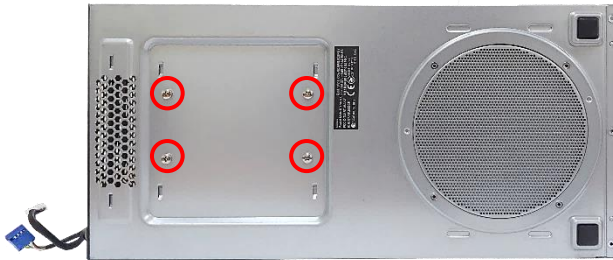
Step 1 : Remove screws *4pcs.

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

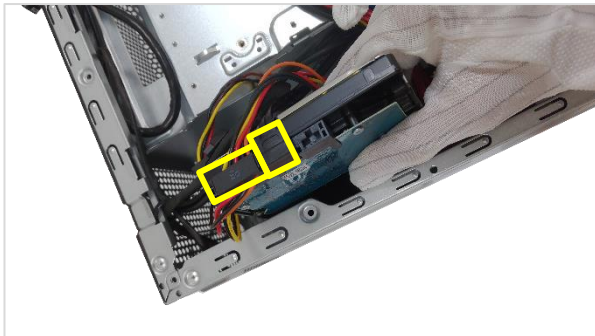
1 Unscrew



3



2 Disconnect





Disassembly Notice

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

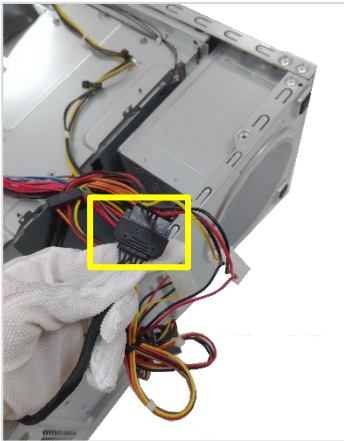
Step 1 : Disconnect the connector *1pcs.

Step 2 : Remove screws *4pcs.

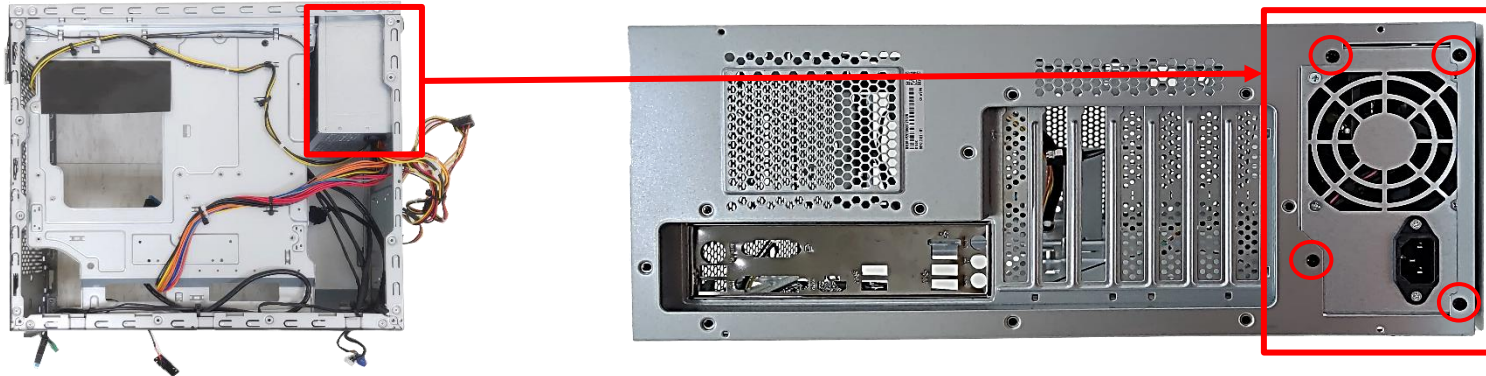
Step 3 : Take out the POWER SUPPLY.

Screws	QTY	Spec	Torque (kgf-cm)
 	4	SCREW #6-32*L6 (B)B-NI-ZN NY	8.0±0.5

1 Disconnect



2 Unscrew



3



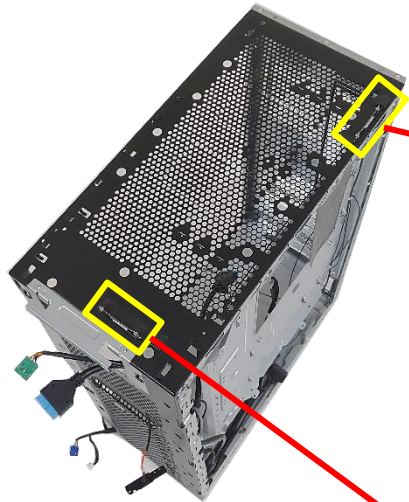
Disassembly Notice

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

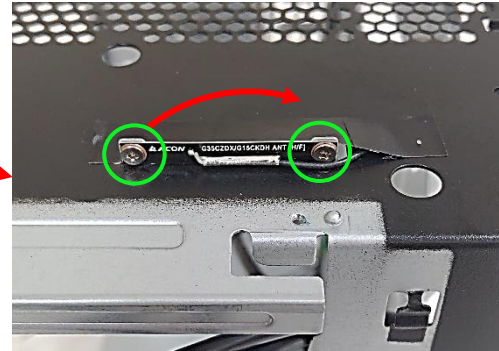
- Step 1 : Tear off the CONDUCTIVE TAPE.
- Step 2 : Remove screws*4pcs.
- Step 3 : Take out ANTENNA.

Screws	QTY	Spec	Torque (kgf-cm)
	4	M2*2.5L (K) W-NI #1 NY	2.0±0.2

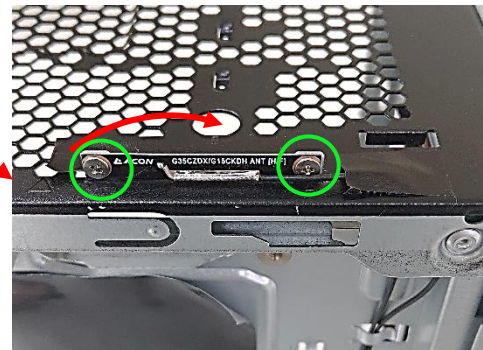
1 Tear off



Front ANTENNA

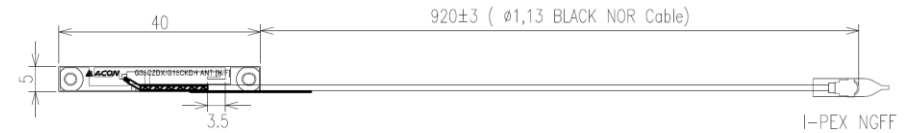


Rear ANTENNA



2 Unscrew (Green mark)

3

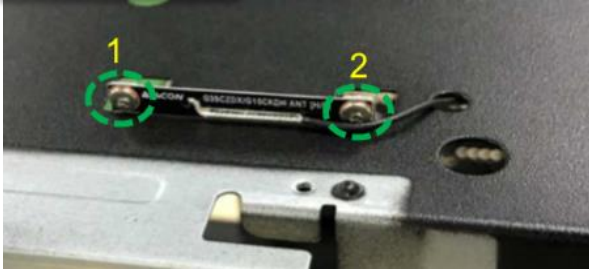


Assembly Notice Please be sure to pull out adapter and disconnect the battery.

Please follow the instructions to tidy Antenna cables and EDP cable.

A Tighten 4 screws

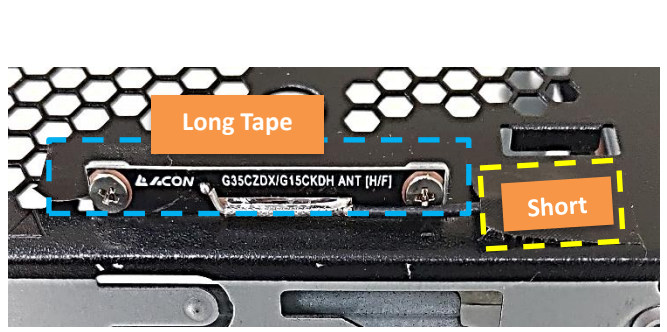
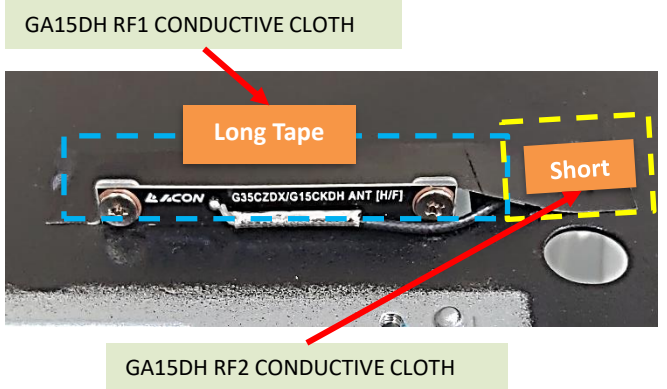
Front Antenna



Rear Antenna

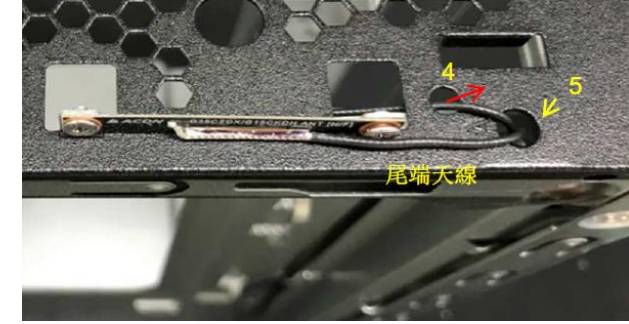
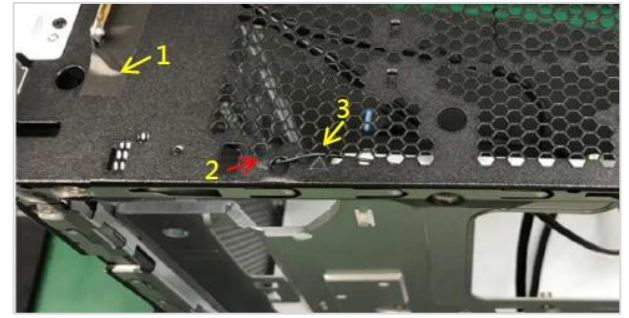


B Paste CONDUCTIVE CLOTH (RF1*2pcs/RF2*2pcs)




C : Pierce through the hole

: Going out from the hole

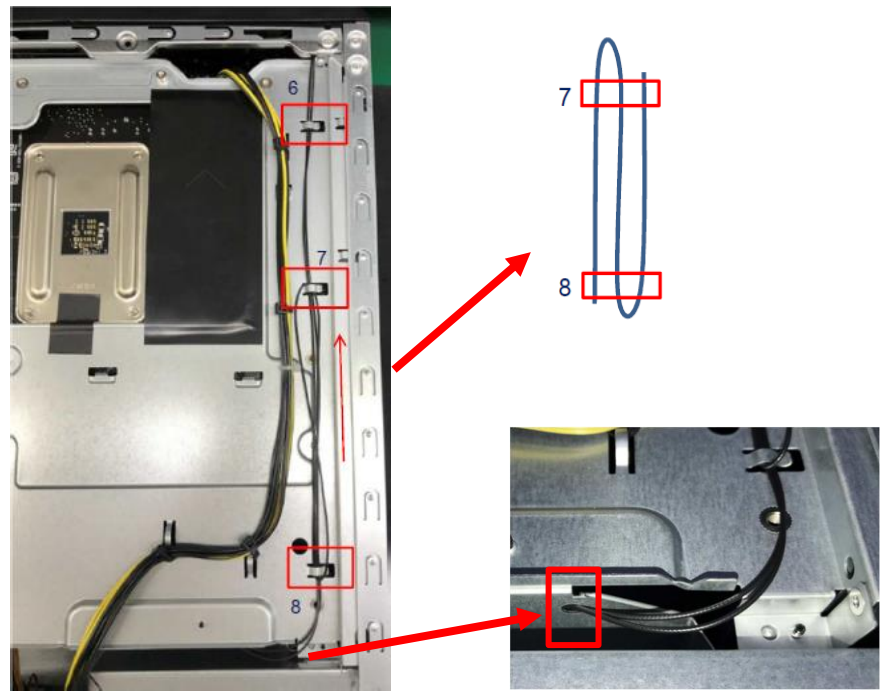


Assembly Notice Please be sure to pull out adapter and disconnect the battery. 

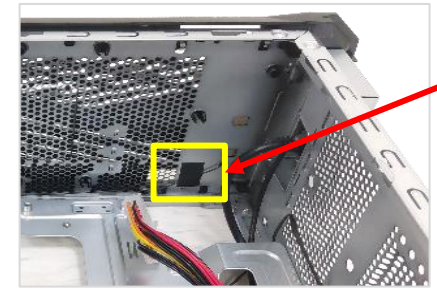
 Tidy up the cable of the back mainframe as illustrated.

D Clip the 2 Antenna cables into a hook at the place Point 6-8.

E Make a bend with the rear Antenna (the long Antenna) and vice versa in the opposite direction as illustrated points 7 & 8.

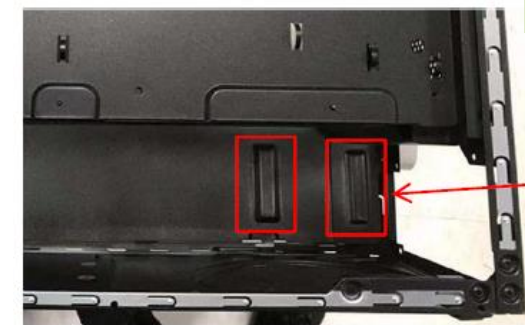


F Paste RF ACETATE TAPE*1 pcs to fix Antenna cable.

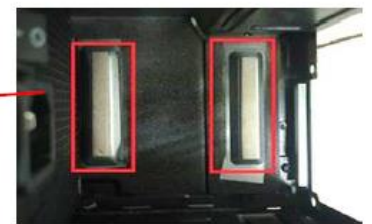


GA15DH RF ACETATE TAPE

G Paste the PSU GASKET to the inside of the case.




GA15DH_PSU_GASKET

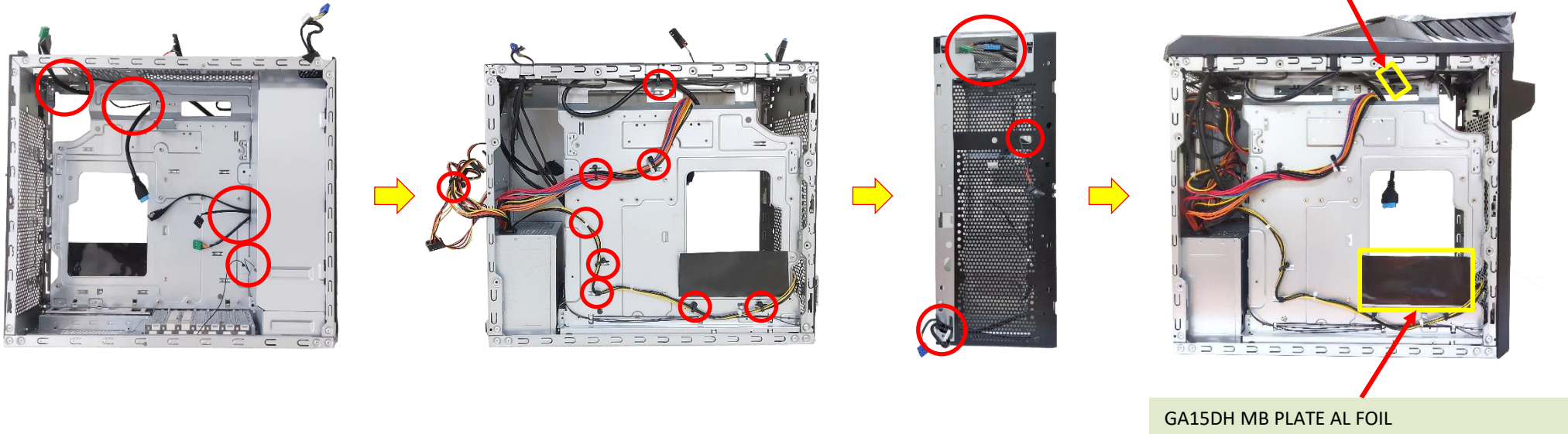


Assembly Notice

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

 Tidy up the cable of the back mainframe as illustrated.

 Tidy up the cables as illustrated and stick Conductive tape.



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



Please follow the instructions below to assemble MID BKT ASSY.
Updated MID BKT screws. (*Note: EN-0338329)

Screws	QTY	Spec	Torque (kgf-cm)
	1	#6-32 L6*H2.3 (B)	8.0 ±0.5
	1	M2.5*4L (K) B-ZN NY #1	3.0 ±0.3
	2	M3*6L (5.5,2.15) (P) #2	8.0 ±0.5

