

Desktop_ExpertCenter_D700SEES/D700SE_CZ

Service Manual

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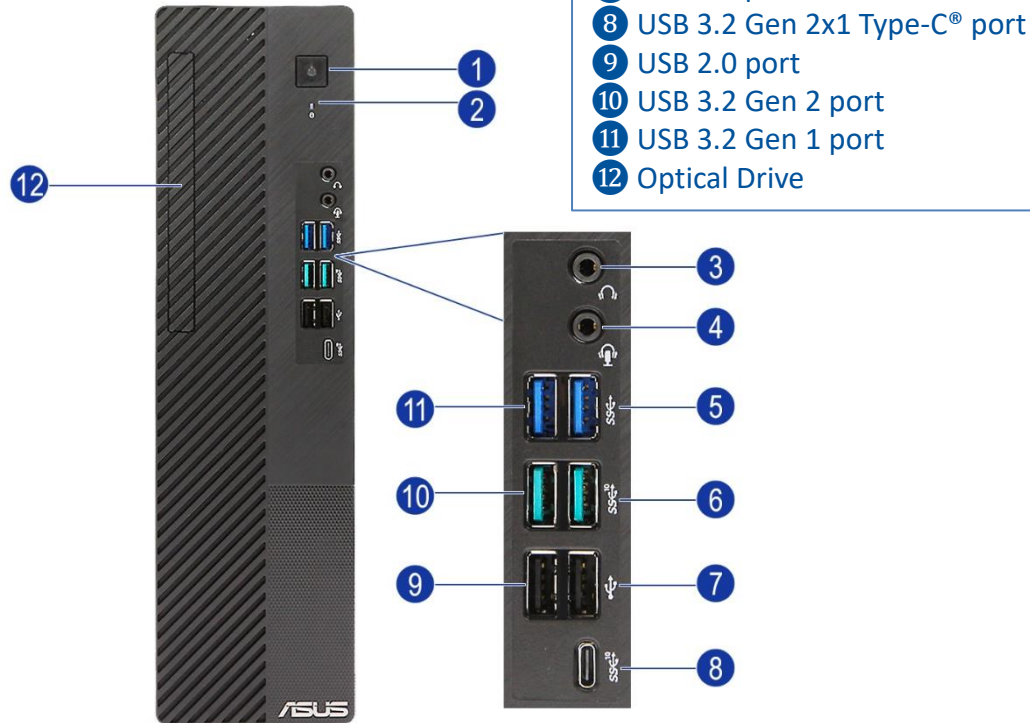
ASUS is not responsible for direct, indirect, intentional or unintentional damages resulting from improper installation and operation.

Safety precautions

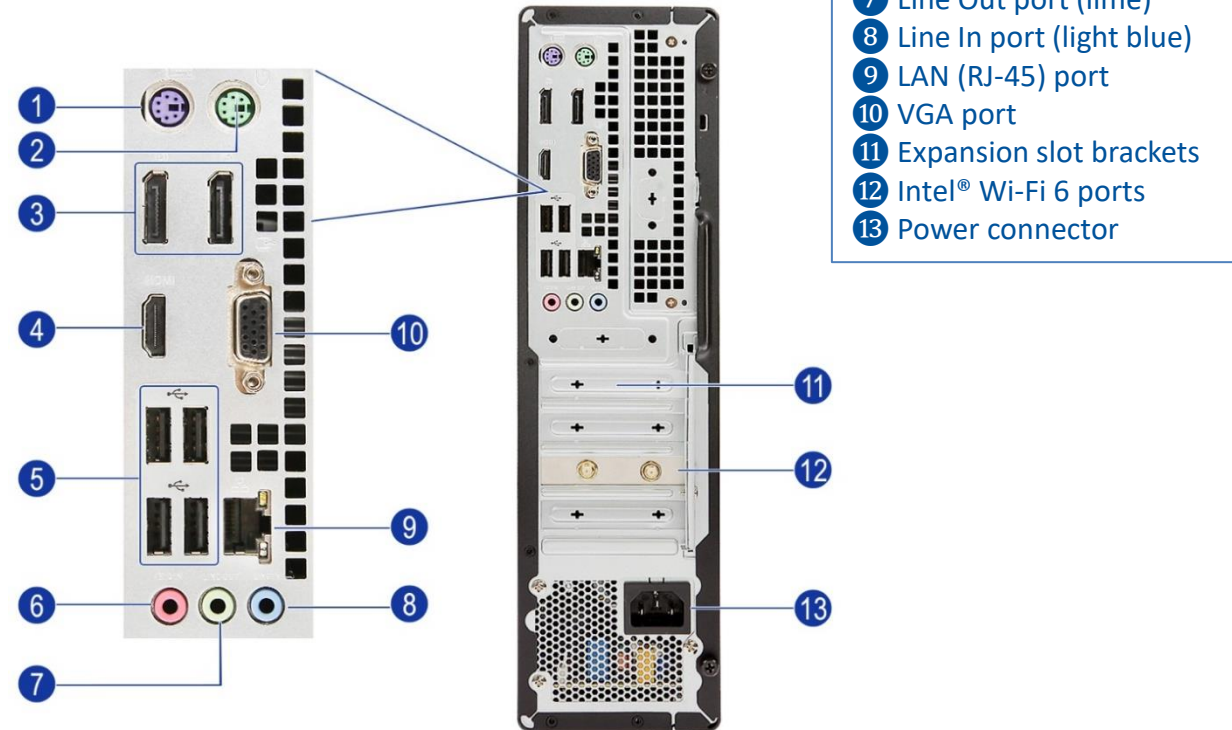
- Before handling components, use a grounded wrist strap or touch a safely grounded object to avoid damaging them due to static electricity.
- Keep liquids or moisture away from your Notebook PC to avoid short circuits.
- Remove rings, watches, and any other metal objects from your hands.
- Hold components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

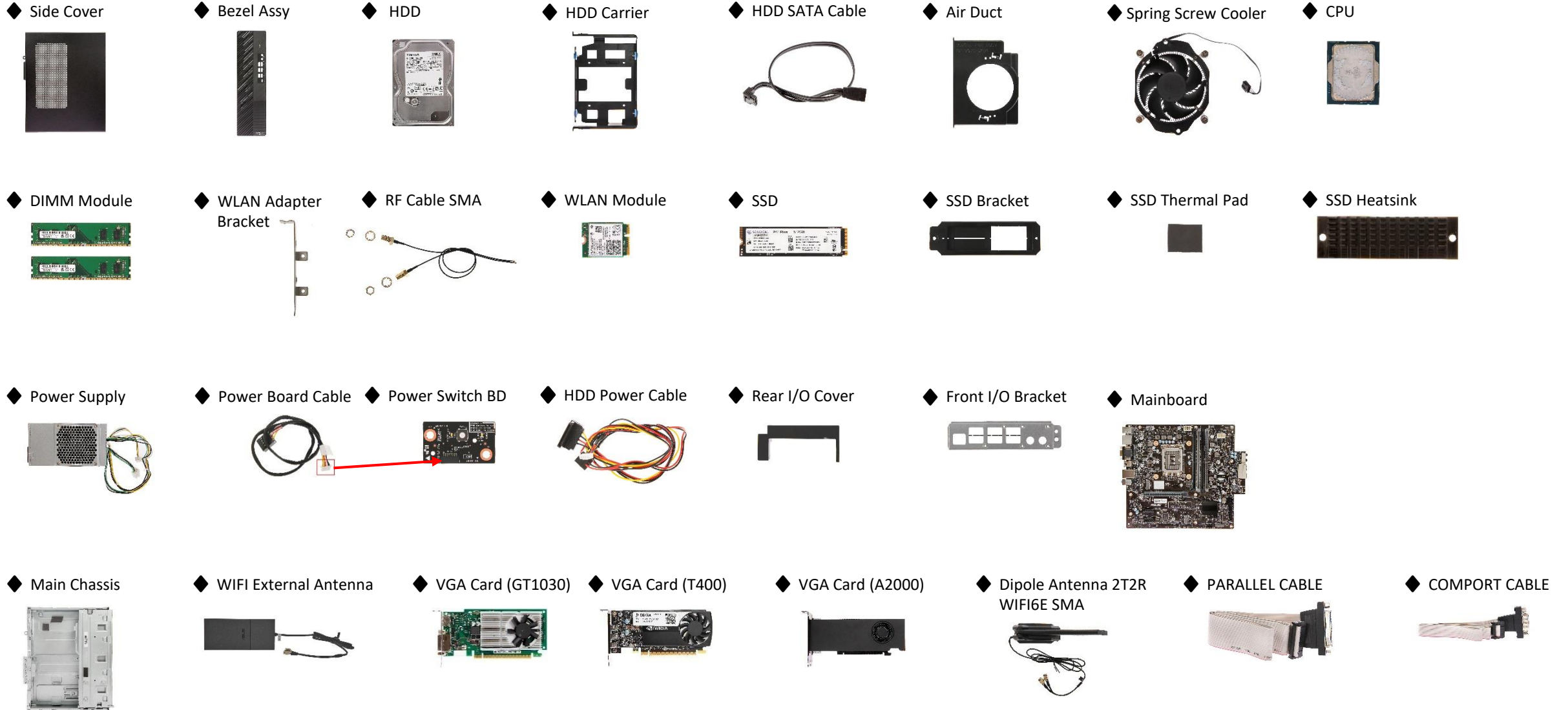
- [Desktop_ExpertCenter_D700SEES/D700SE_CZ Overview](#)
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- [Components Bottom View](#)
- [Appropriate Tools](#)
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 - [BEZEL ASSY](#)
 - [HDD](#)
 - [VGA CARD \(GT1030/T400/A2000\)](#)
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Front Panel View



Rear Panel View





◆ DIMM Module



◆ SSD



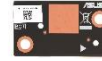
◆ CPU



◆ WLAN Module



◆ Power Switch BD



◆ Mainboard



◆ HDD



◆ VGA Card (GT1030)



◆ VGA Card (T400)



◆ VGA Card (A2000)



Please prepare and select the appropriate tools to disassemble/assemble for the Desktop_ExpertCenter_D700SEES/D700SE_CZ desktop.

◆ **Screwdriver**

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



◆ **Plastic Blade**



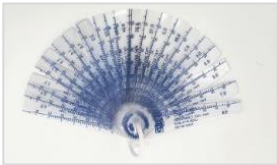
◆ **Plastic Tweezers**

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



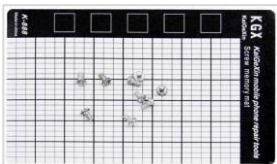
◆ **Thickness Gauge**

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%**



◆ **Glove**



◆ **Dust-free Cloth**



◆ **Thermal Grease**



◆ **Cable Tie (Local Buy)**



◆ **Needle nose pliers**





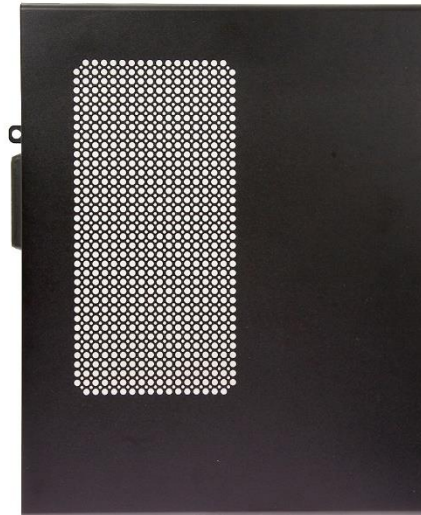
Disassembly Notice

Please be sure to disconnect the system from power source.



- Step 1 : Remove screws*2pcs.
- Step 2 : Detach the side cover.

Screws	QTY	Spec	Torque (kgf-cm)
 	2	SCREW #6-32 L6*H8.5	8.0±0.8



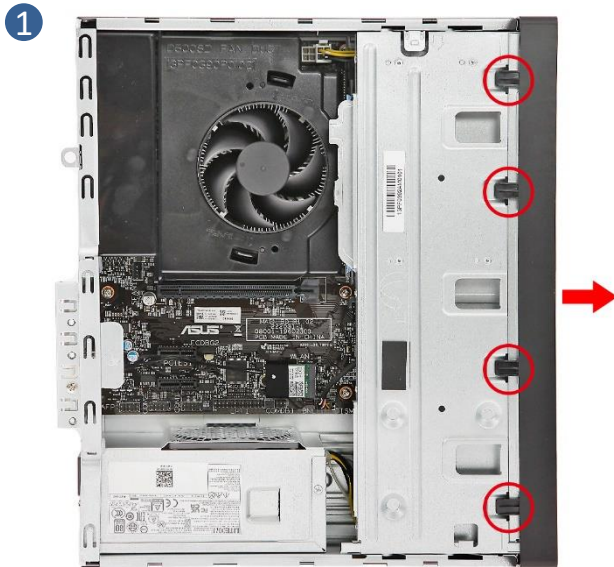
SIDE COVER

Disassembly Notice

Please be sure to disconnect the system from power source.



Step 1 : Disengage the latches*4 (red mark) and remove the bezel assy.



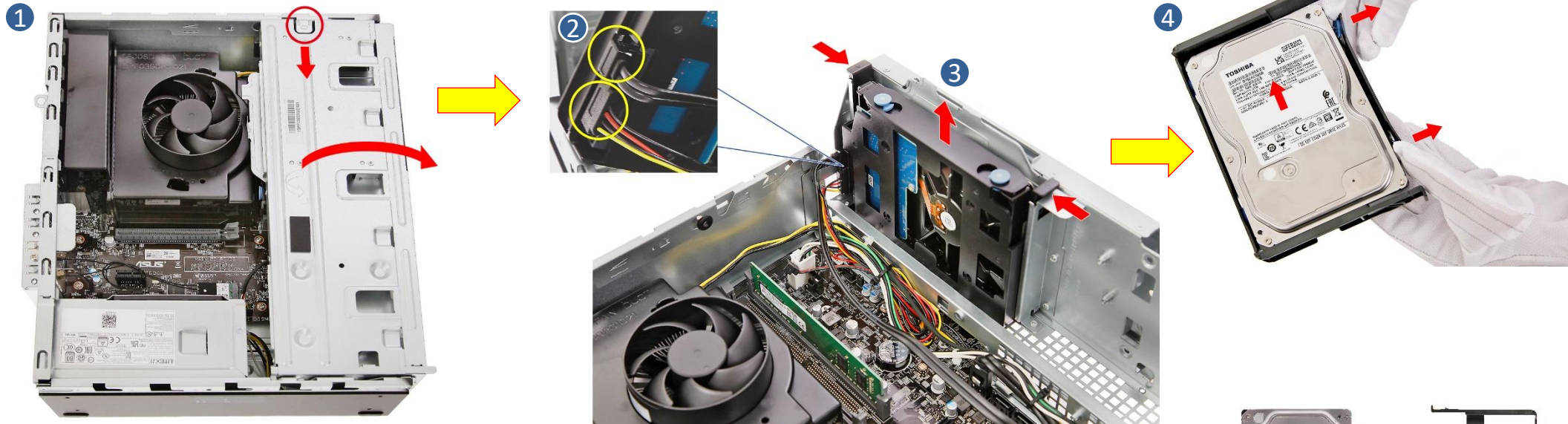
BEZEL ASSY

Disassembly Notice

Please be sure to disconnect the system from power source.



- Step 1 : Press the metal latch (red mark) and rotate the HDD/ODD bracket.
- Step 2 : Disconnect the HDD power and SATA cables.
- Step 3 : Detach the HDD module from the chassis.
- Step 4 : Remove the HDD from the HDD carrier.



Assembly Notice

⚠ For SKU with multiple HDDs, connect the HDD cables to the MB in the following sequence: SATA1>SATA2>SATA3 (SATA4 can only be used for ODD cable)



HDD





HDD CARRIER

Disassembly Notice

Please be sure to disconnect the system from power source.

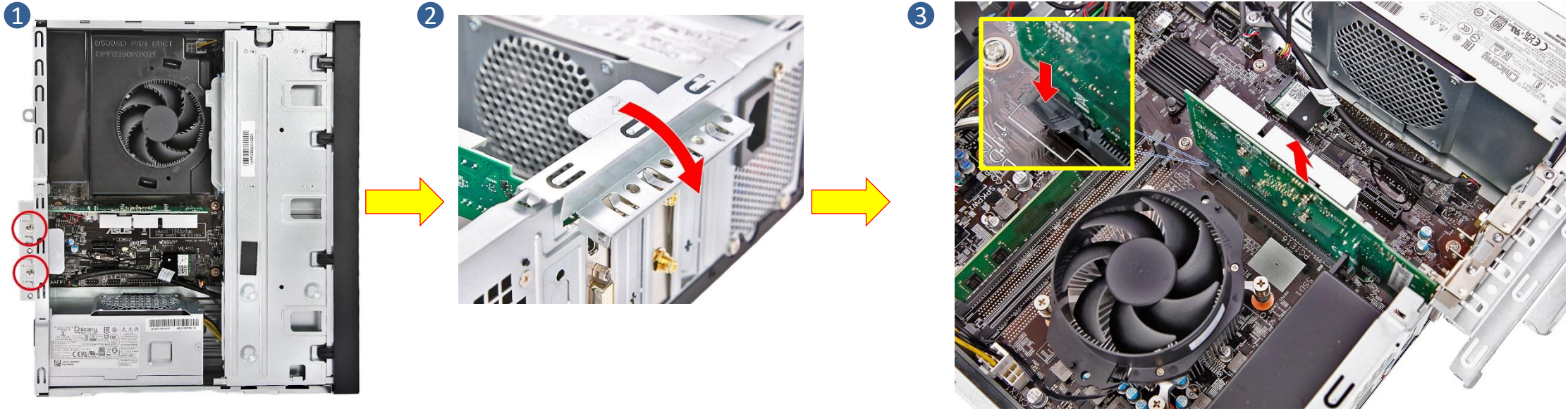


Screws	QTY	Spec	Torque (kgf-cm)
 	1	SCREW #6-32 L6*H2.3	8.0±0.8

Step 1 : Remove the screws*2 (red mark).

Step 2 : Open the retaining latch.

Step 3 : Detach the VGA card.



VGA CARD (GT1030)





VGA CARD (T400)



VGA CARD (A2000)

Assembly Notice Please be sure to disconnect the system from power source.



Screws	QTY	Spec	Torque (kgf-cm)
 	2	SCREW #6-32 L6*H2.3	8.0±0.8

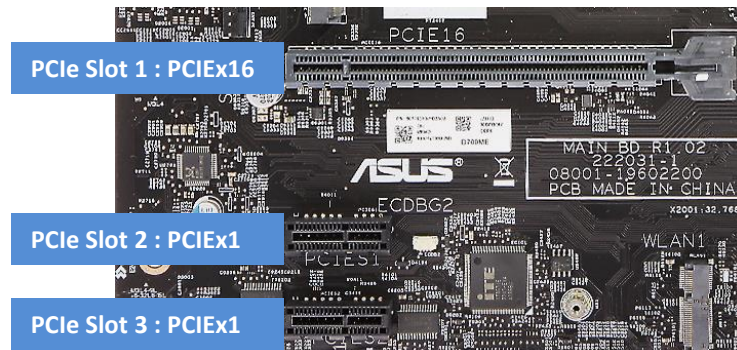
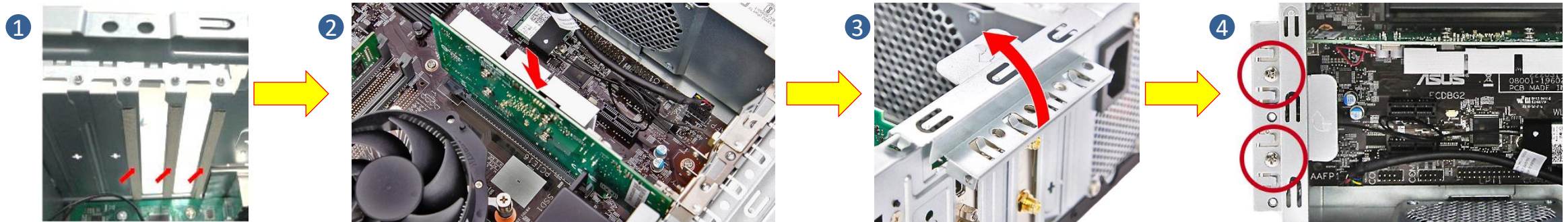
Step 1 : Stick the EMI SHIELDING GASKETS* in the rear of the chassis as shown.

*The quantity of GASKET will vary by SKU. Please follow BOM.

Step 2 : Insert VGA card into the PCIe Slot 1 (PCIex16) and push down until it latches into place.

Step 3 : Lock the retaining latch.

Step 4 : Fix retaining latch using screws*2 (red mark).



Disassembly Notice

Please be sure to disconnect the system from power source.

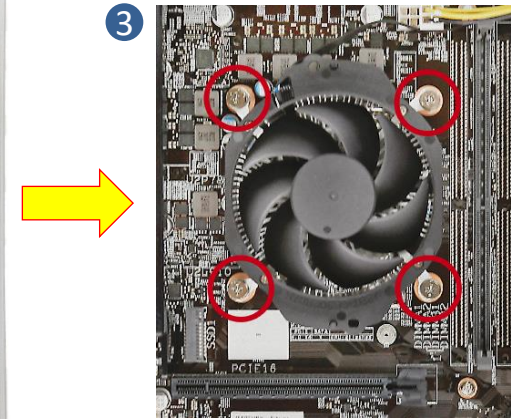
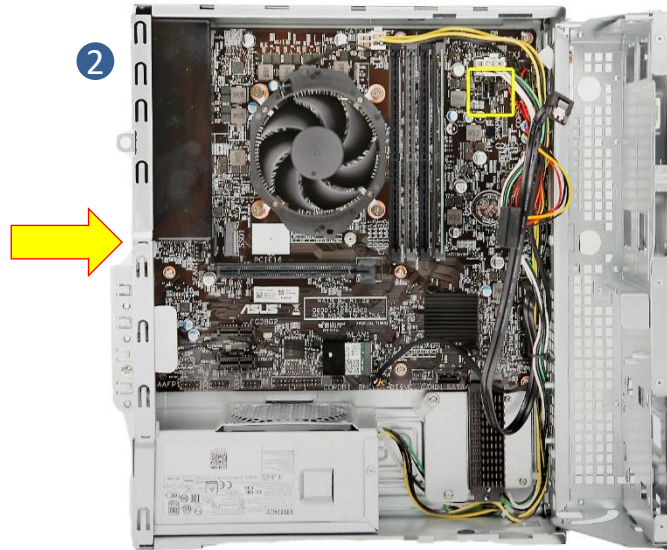


Screws	QTY	Spec	Torque (kgf-cm)
	4	Cooler Screw	8.0±0.8

Step 1 : Detach the air duct.

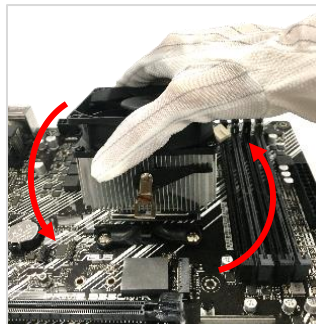
Step 2 : Disconnect the cooler cable (yellow mark).

Step 3 : Loosen cooler screws*4pcs (red mark) then take out spring screw cooler.



Disassembly Notice

If the spring screw cooler is hard to disassemble, please wiggle it left and right to separate.



These are captive screws (non-removable)
Torque (kgf-cm): 8.0±0.8



AIR DUCT



SPRING SCREW COOLER

Disassembly Notice

Please be sure to disconnect the system from power source.

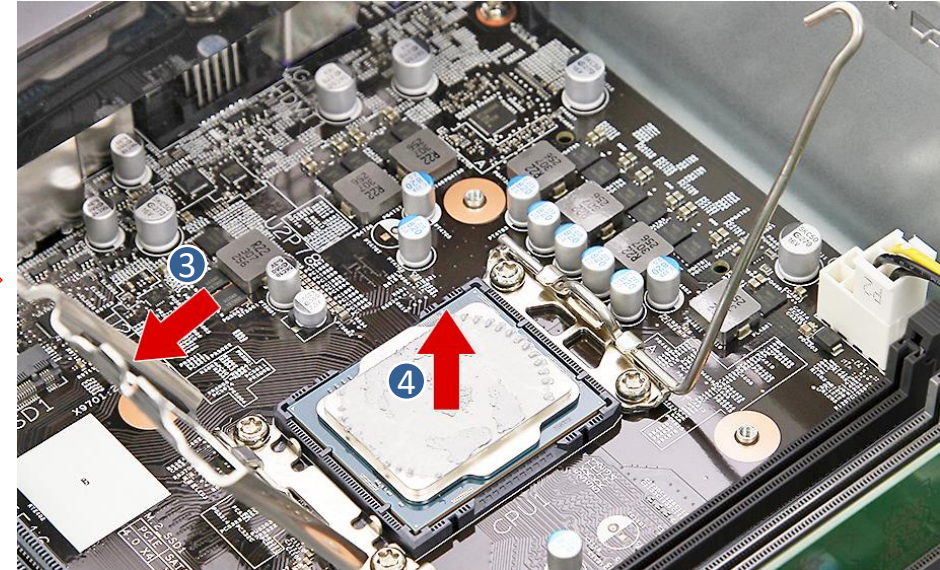
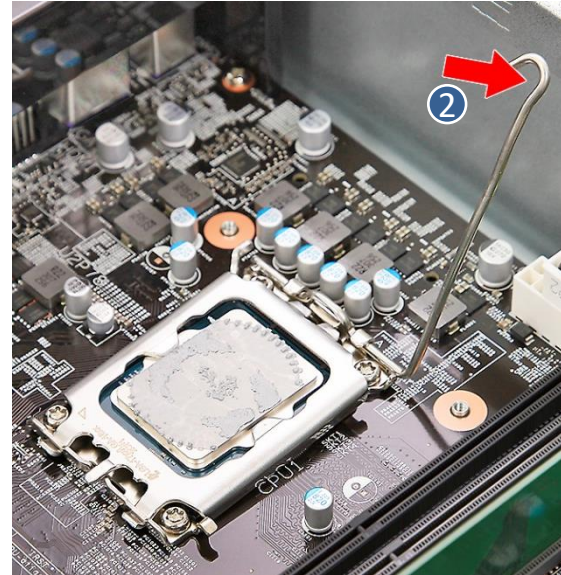
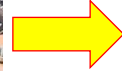
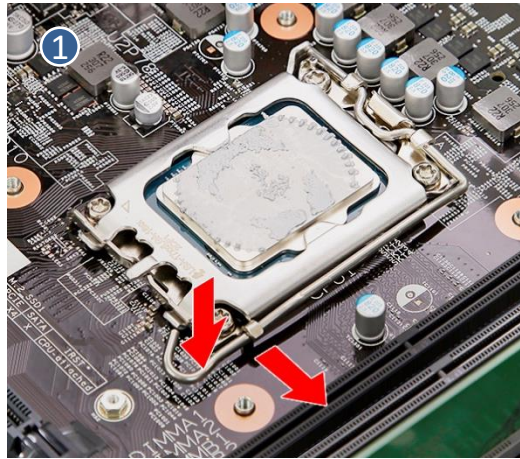


Step 1 : Release the load lever from the retention tab.

Step 2 : Pull the load lever.

Step 3 : Open the CPU cover.

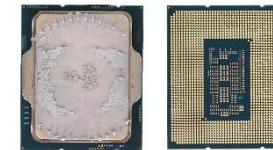
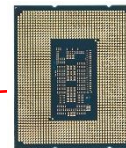
Step 4 : Remove the CPU.



Disassembly Notice



Pin facing down on CPU packaging to protect the CPU.



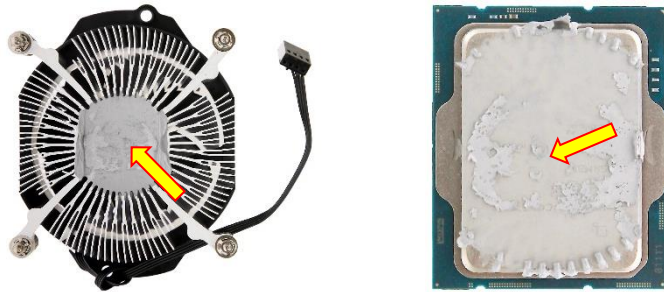
CPU

Assembly Notice Please be sure to disconnect the system from power source. 

 Please make sure to re-apply thermal grease on CPU Die, if spring screw cooler 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.

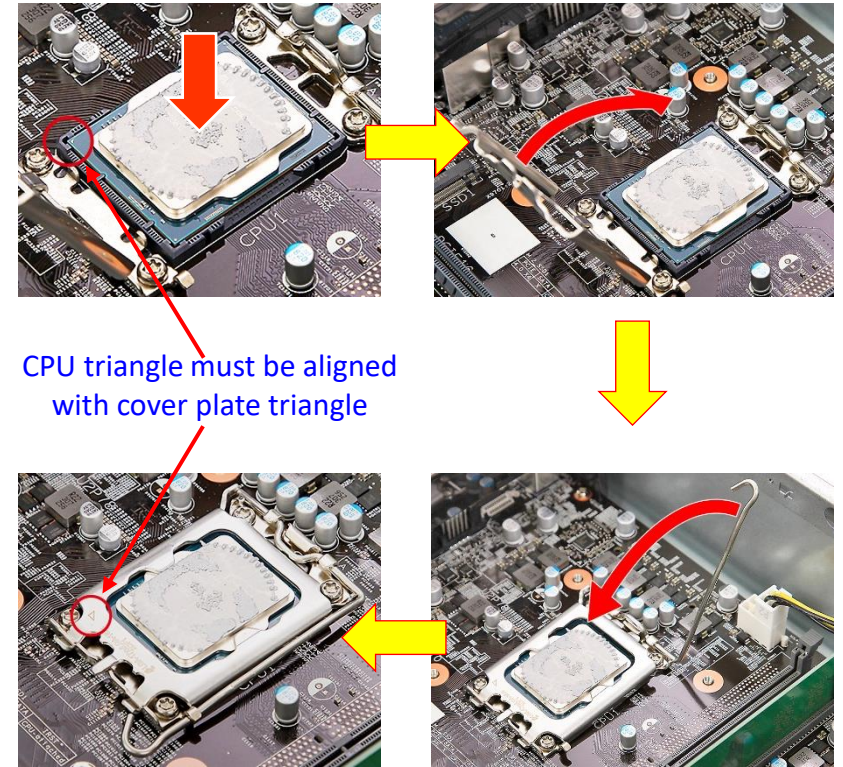


Attention:

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

CPU Assembly Notice

 Please follow below instructions to assemble CPU.



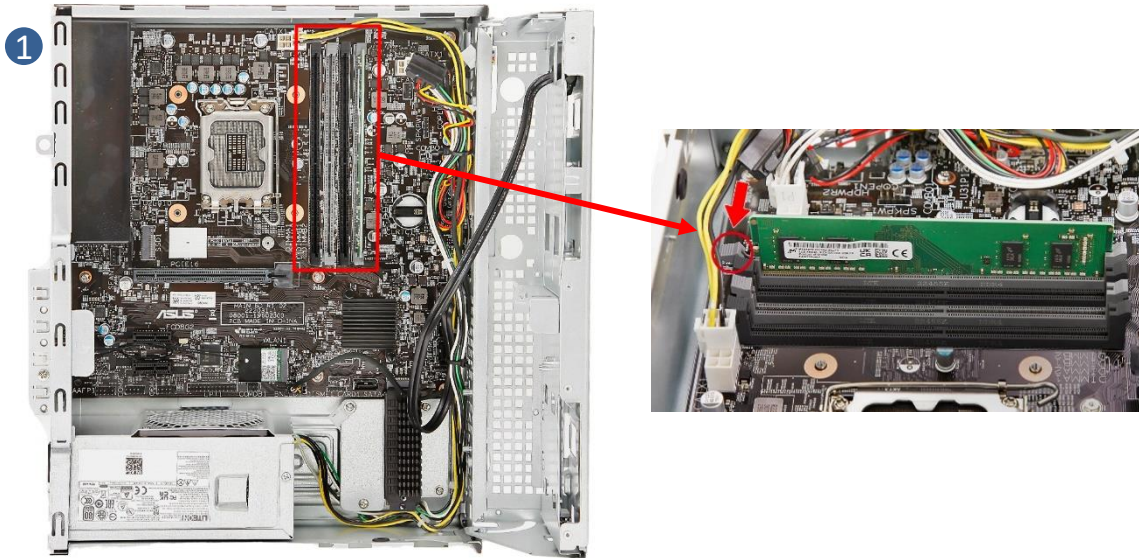
CPU triangle must be aligned with cover plate triangle

Disassembly Notice

Please be sure to disconnect the system from power source.



Step 1 : Release holding clip then remove DIMM modules*4.



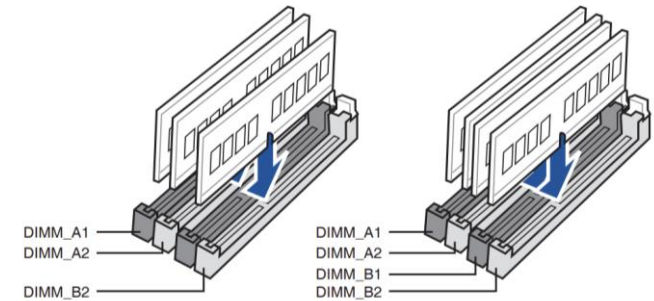
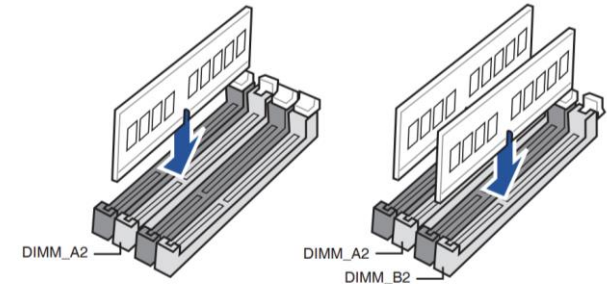
DIMM MODULE

Assembly Notice

Please follow the below criteria to populate DIMM slots.

- DIMM_A1
- DIMM_A2
- DIMM_B1
- DIMM_B2

Channel	Sockets
Channel A	DIMM_A1 & DIMM_A2
Channel B	DIMM_B1 & DIMM_B2

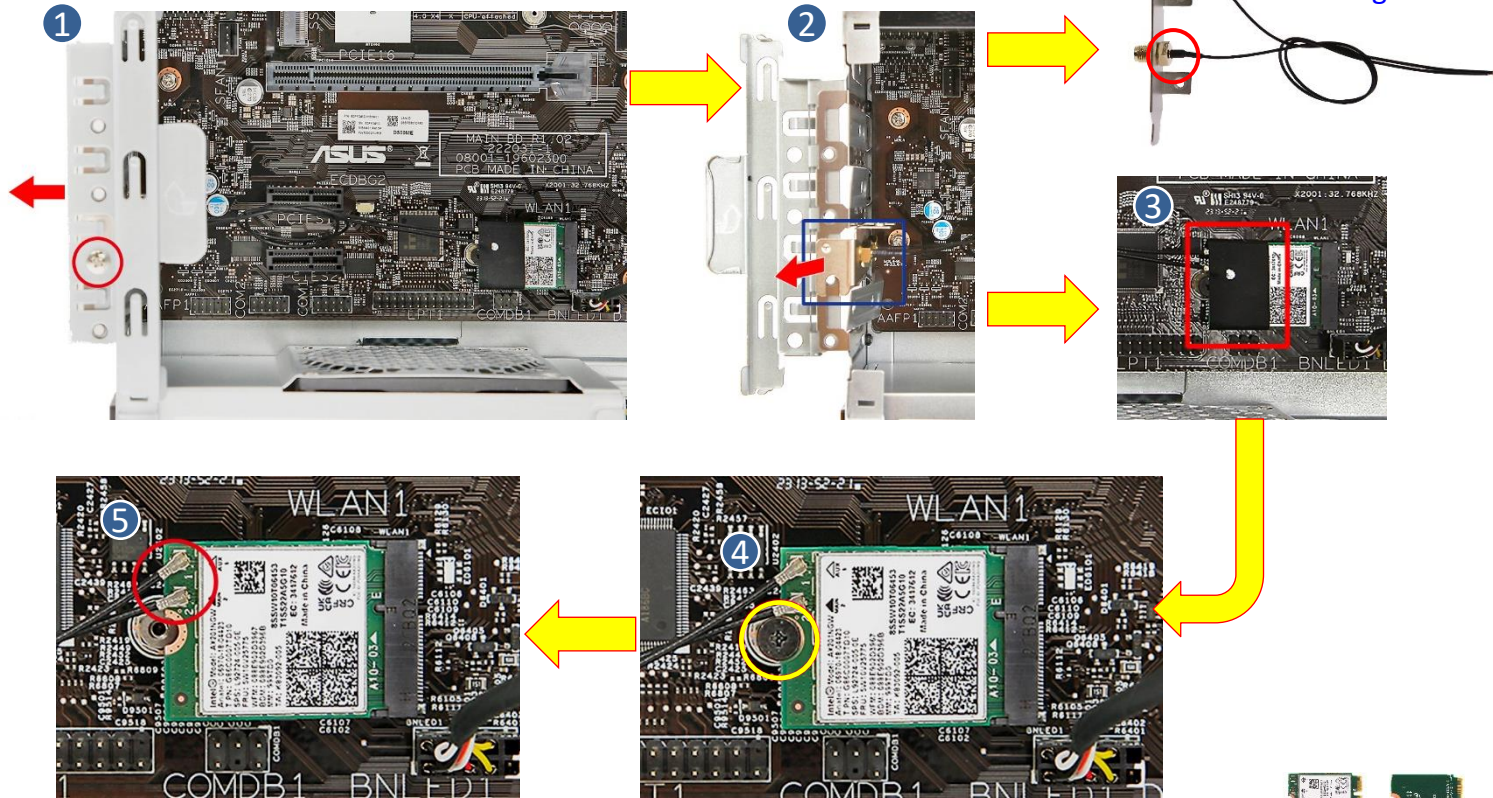


Disassembly Notice

Please be sure to disconnect the system from power source.



- Step 1 : Remove the screw*1 (red mark) and open the retaining latch.
- Step 2 : Detach the antenna from its slot.
- Step 3 : Remove the adhesive tape from WLAN module.
- Step 4 : Remove the screw*1 (yellow mark).
- Step 5 : Disconnect the WLAN antenna cable and remove the WLAN module.

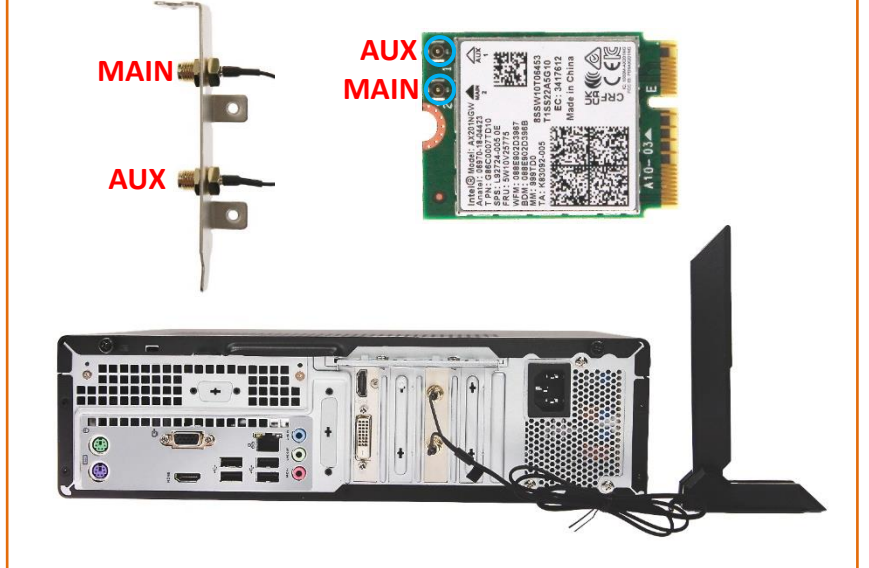


Antenna Torque:
4.0±0.8 kgf-cm

Screws	QTY	Spec	Torque (kgf-cm)
	1	SCREW #6-32 L6*H2.3	8.0±0.8
	1	SCREW M.2*3L	3.2±0.32

Assembly Notice

Please follow below image to assemble RF cable.



WLAN MODULE

WLAN
ADAPTER BKT

RF CABLE SMA*2pcs

DIPOLE ANTENNA 2T2R
WIFI6E SMA

Disassembly Notice

Please be sure to disconnect the system from power source.



Screws	QTY	Spec	Torque (kgf-cm)
	1	SCREW M2*7.5L	2.0±0.2
	2	SCREW M2 L4*H0.8	2.0±0.2

Step 1 : Remove the screw*1 (red mark) and detach the SSD module assembly.

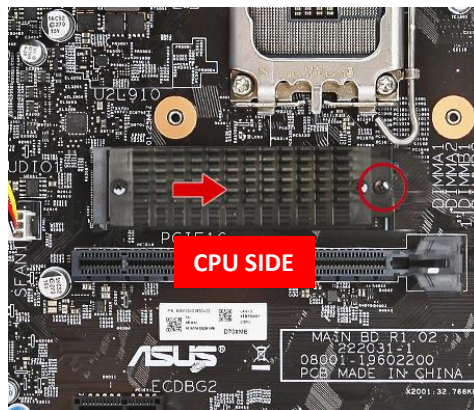
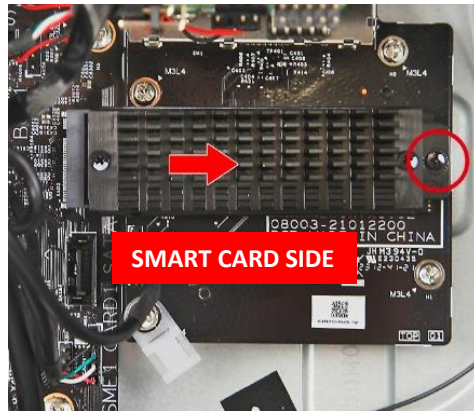
Step 2 : Remove the screws*2 (yellow mark).

Step 3 : Remove the SSD heatsink.

Step 4 : Remove the thermal pad (blue mark).

Step 5 : Remove the SSD from the bracket.

1



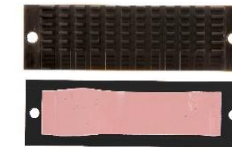
SSD MODULE



SSD THERMAL PAD



SSD BRACKET



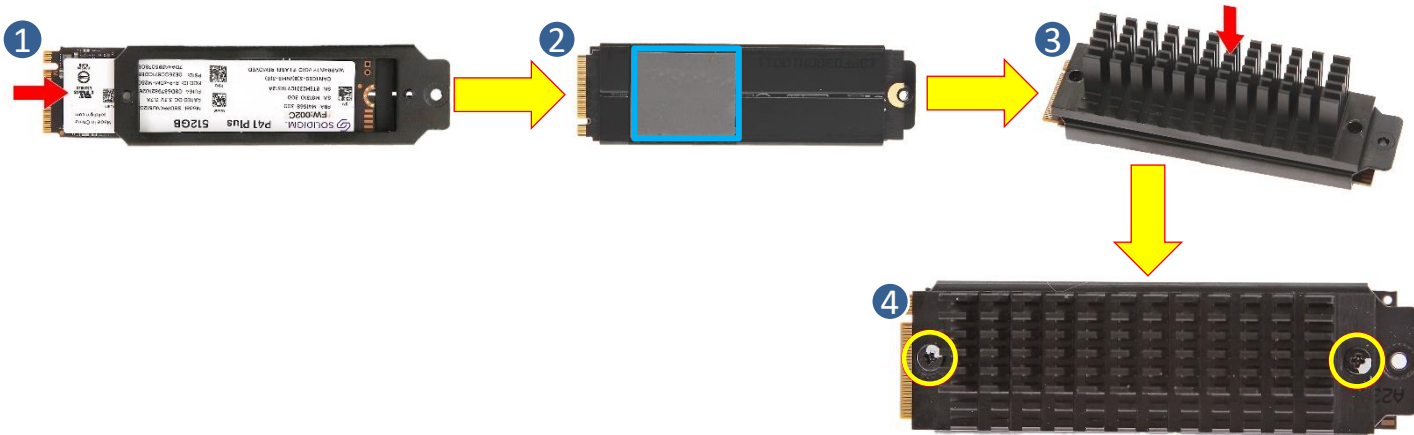
SSD HEATSINK

Assembly Notice

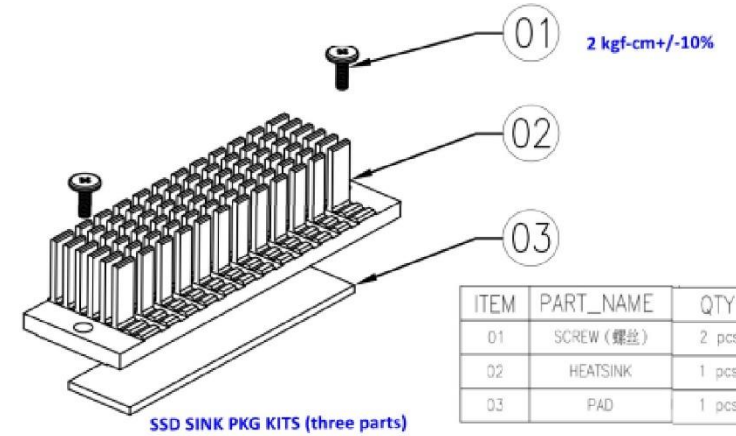
Please be sure to disconnect the system from power source.



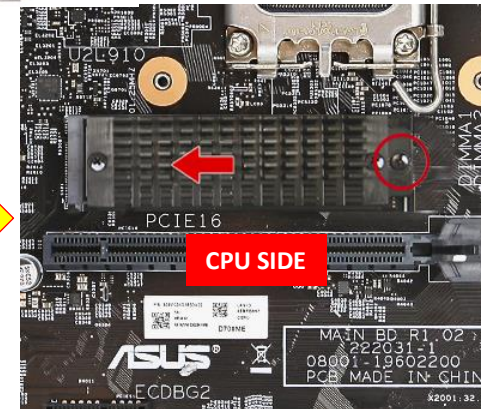
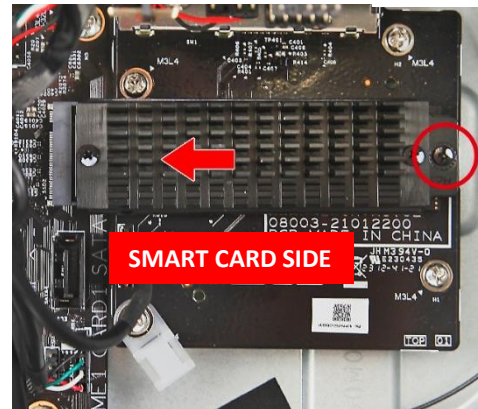
- Step 1 : Place SSD into the bracket.
- Step 2 : Place the thermal pad (blue mark).
- Step 3 : Remove the SSD heatsink.
- Step 4 : Fix SSD heatsink using screws*2 (yellow mark).
- Step 5 : Install SSD module assembly and fix using screw*1 (red mark).



SSD SINK PKG KIT





ITEM	PART_NAME	QTY
01	SCREW (螺丝)	2 pcs
02	HEATSINK	1 pcs
03	PAD	1 pcs



Disassembly Notice

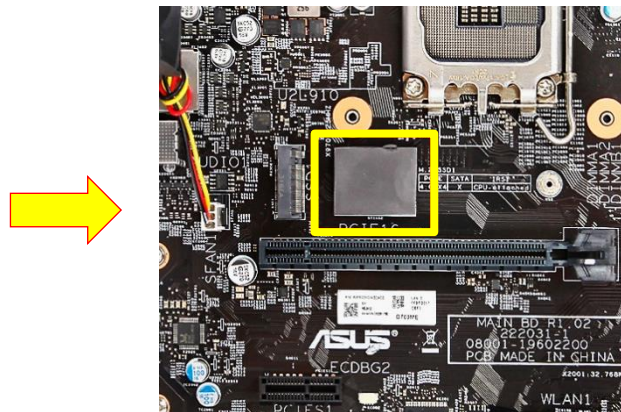
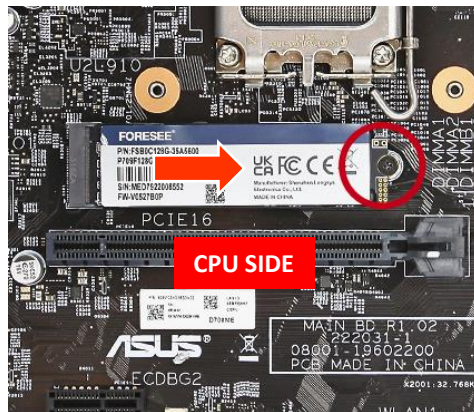
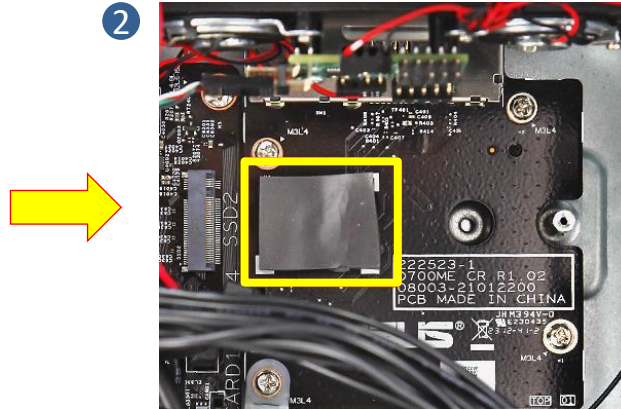
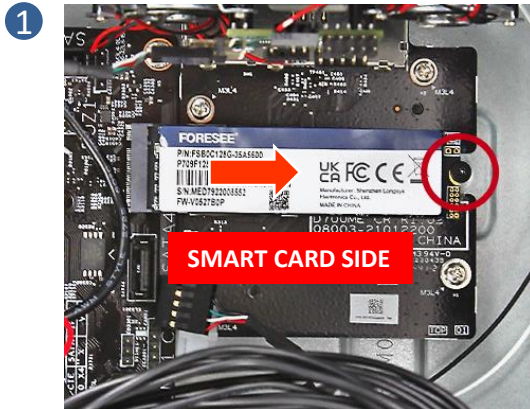
Please be sure to disconnect the system from power source.



Screws	QTY	Spec	Torque (kgf-cm)
 	1	SCREW M2 L4*H0.8	2.0±0.2

Step 1 : Remove the screw*1 (red mark) and detach the SSD.

Step 2 : Remove the thermal pad (yellow mark).



SSD MODULE



SSD THERMAL PAD

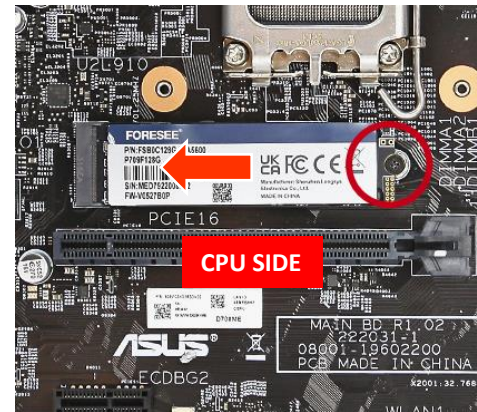
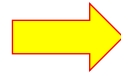
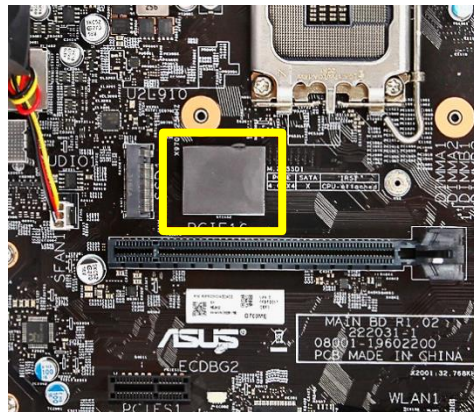
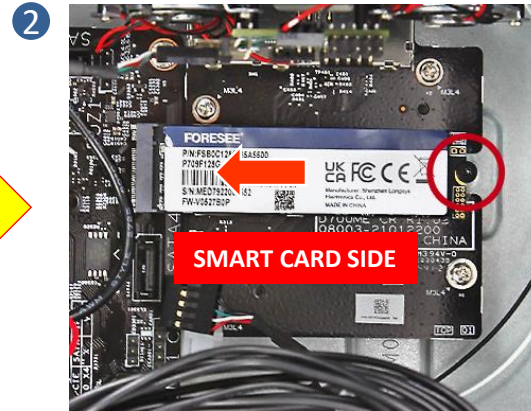
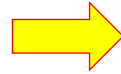
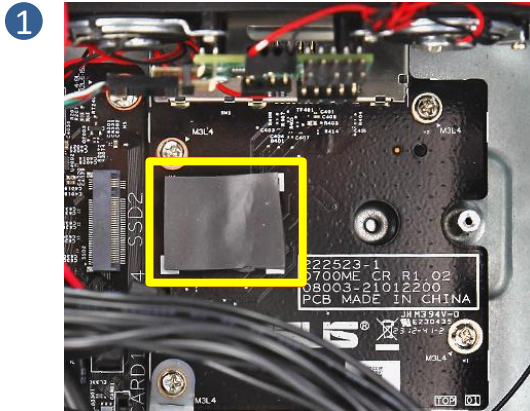
Assembly Notice

Please be sure to disconnect the system from power source.



Step 1 : Place the thermal pad (yellow mark).



Step 2 : Install SSD and fix using screw*1 (red mark).



Disassembly Notice

Please be sure to disconnect the system from power source.

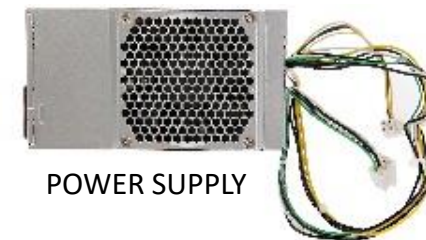
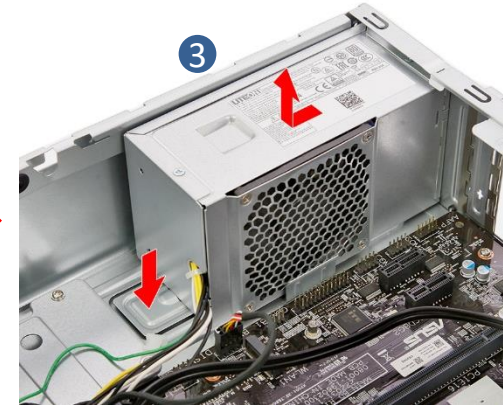
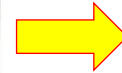
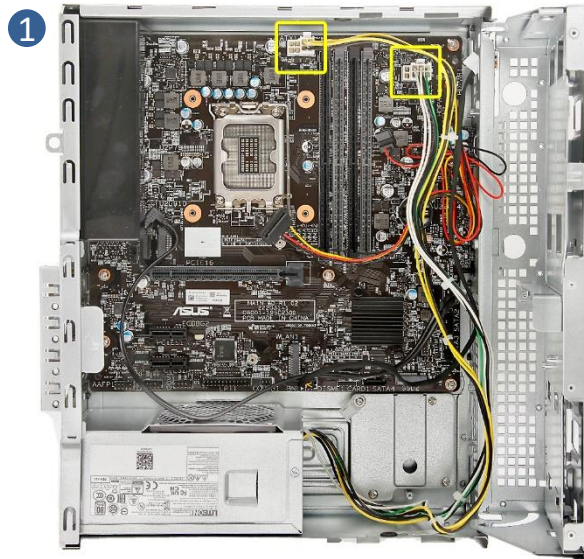


Screws	QTY	Spec	Torque (kgf-cm)
 	3	SCREW #6-32 L6*H2.3	8.0±0.8

Step 1 : Disconnect the cables*2 (yellow mark).

Step 2 : Remove the screws*3 (red mark).

Step 4 : Remove the Power supply.





POWER SUPPLY

Disassembly Notice

Please be sure to disconnect the system from power source.

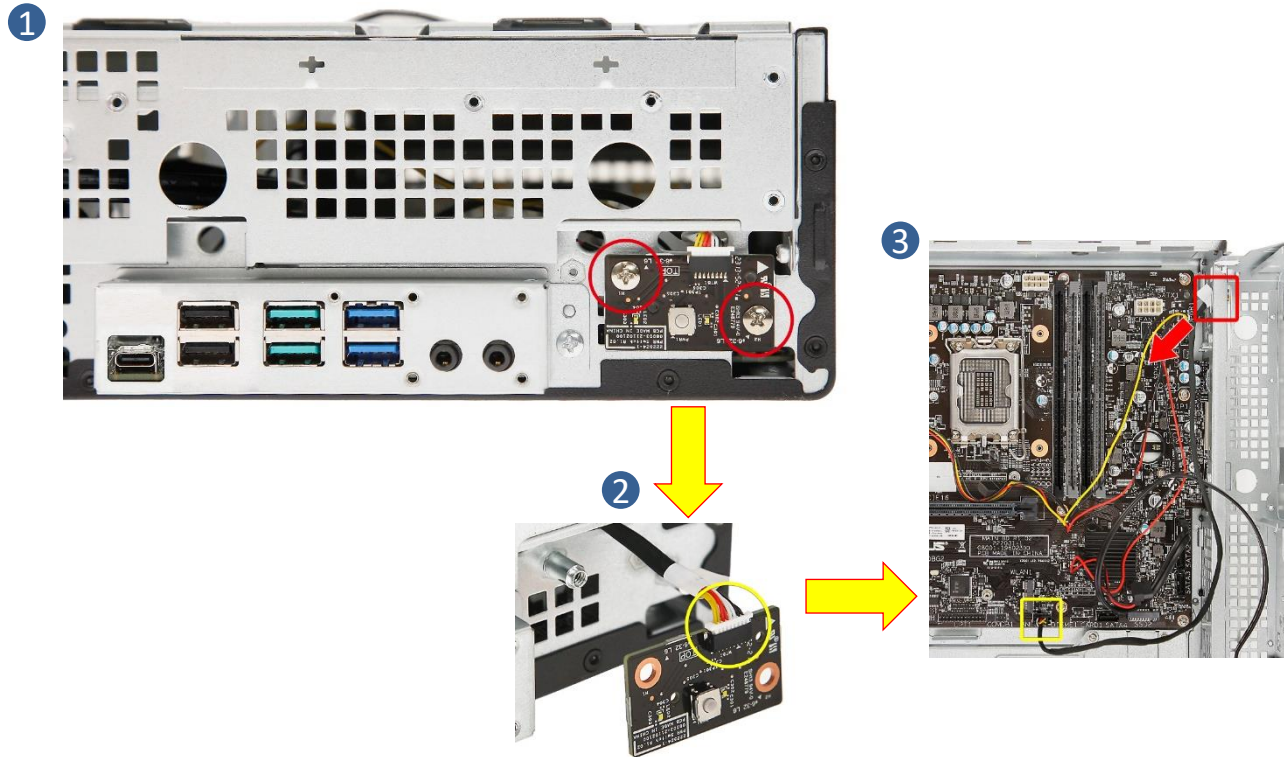


Screws	QTY	Spec	Torque (kgf-cm)
 	2	SCREW #6-32 L6*H2.3	8.0±0.8

Step 1 : Remove the screws*2 (red mark).

Step 2 : Disconnect the cable (yellow mark) from the Power Switch BD.

Step 3 : Disconnect the cable (yellow mark) from the mainboard.



POWER SWITCH BD



POWER BOARD CABLE

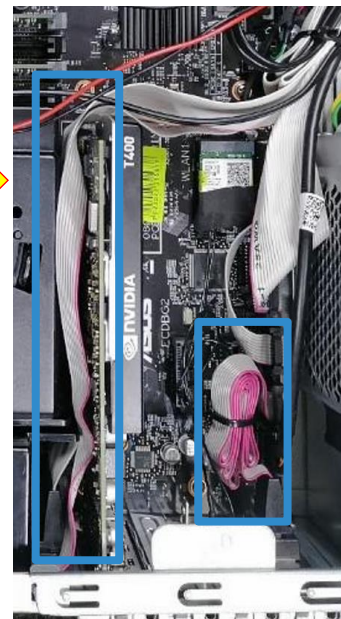
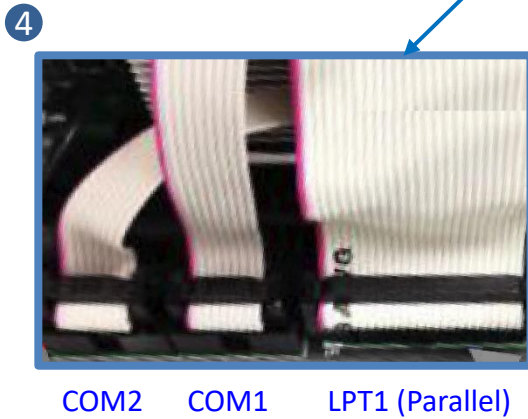
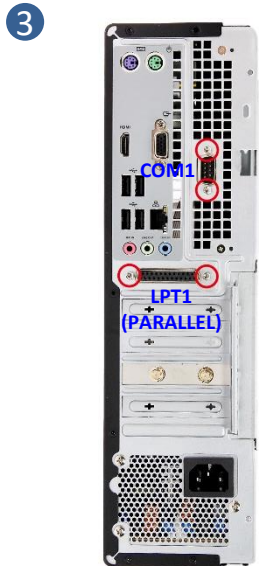
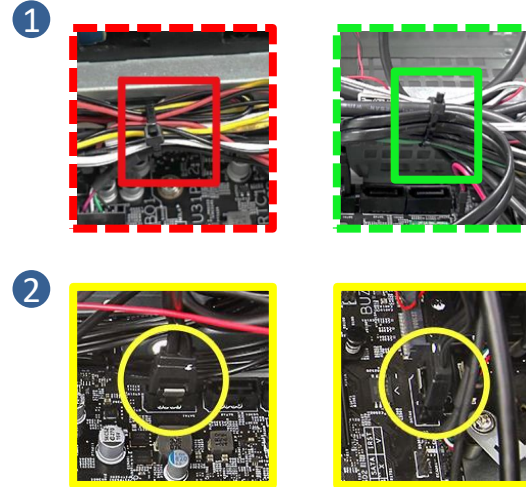
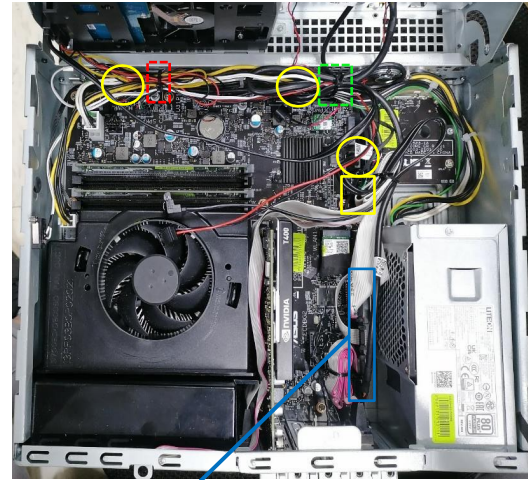
DISCONNECT THE CABLES

Disassembly Notice

Please be sure to disconnect the system from power source.



- Step 1 : Cut the cable ties.
- Step 2 : Remove the SATA 6G, HSG2.0 TO SATA6P SATA15P and SW CABLE (yellow mark).
- Step 3 : Remove the STAND SCREW*6pcs (red mark).
- Step 4 : Remove PARALLEL and COM PORT Cables (blue mark).



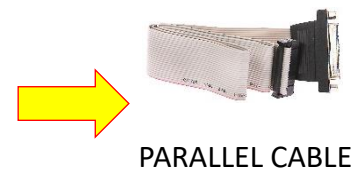
SATA 6G CABLE



HSG2.0 TO SATA6P SATA15P CABLE



SW CABLE



PARALLEL CABLE



COMPORT CABLE

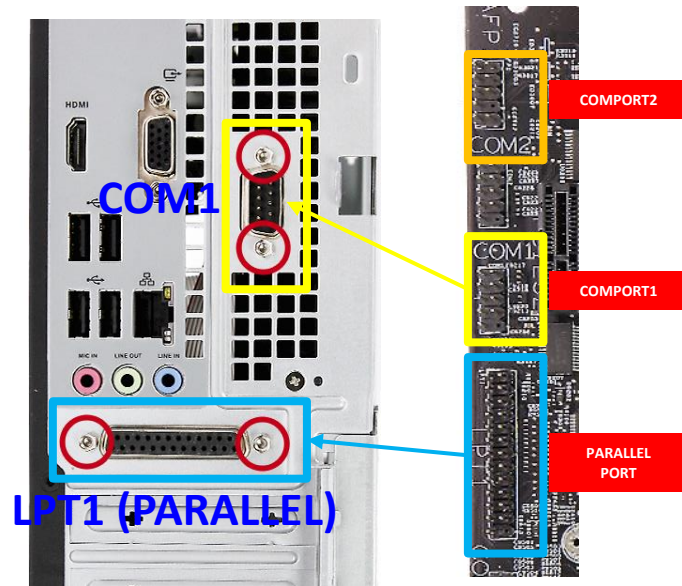
Assembly Notice

Please be sure to disconnect the system from power source.



Connect the PARALLEL and COMPORT CABLEs to the MB connectors as shown:

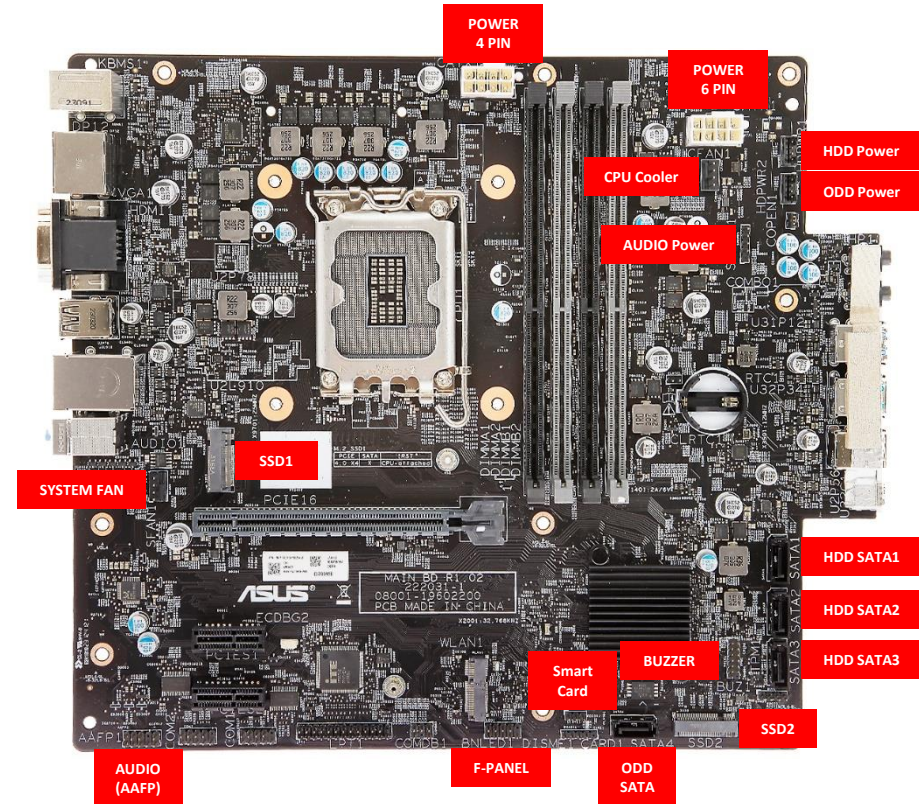
Connect the other cables to the MB connectors as shown:



PARALLEL CABLE



COMPORT CABLE

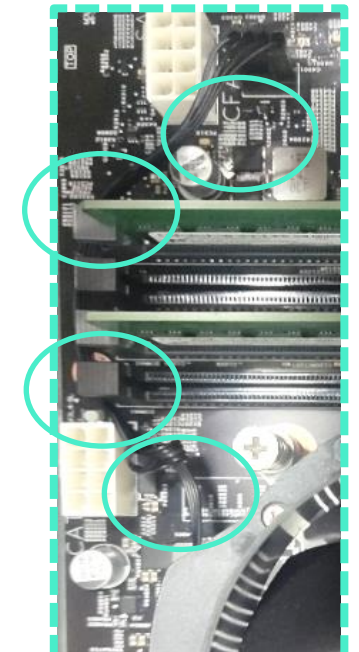
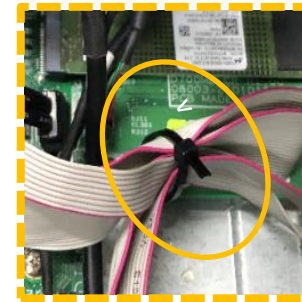
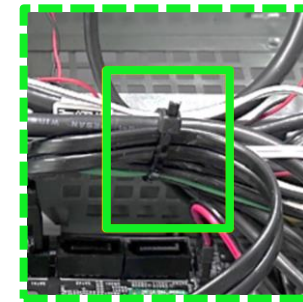
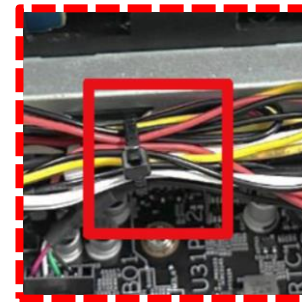
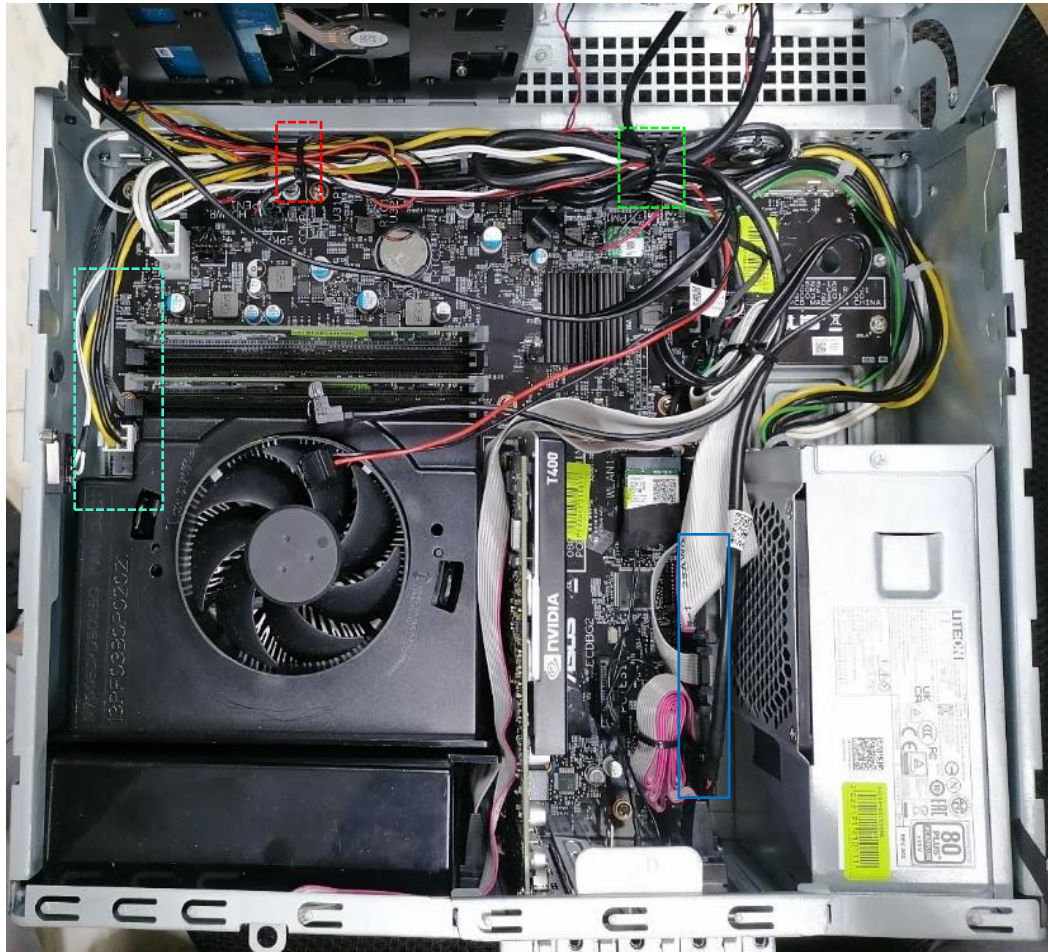


Assembly Notice

Please be sure to disconnect the system from power source.





Please follow below cable routing guidelines when re-assembling the system.



Disassembly Notice

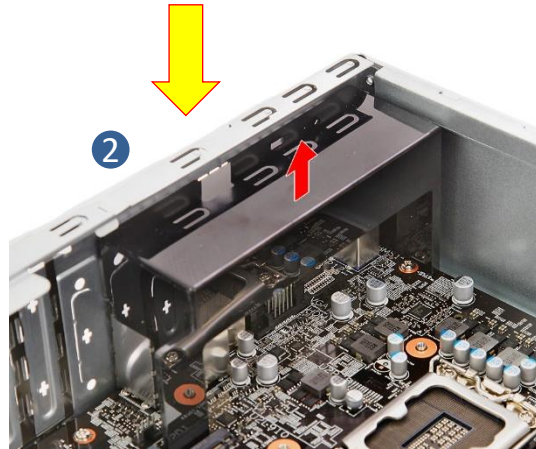
Please be sure to disconnect the system from power source.



Screws	QTY	Spec	Torque (kgf-cm)
 	2	SCREW M3*6L	4.0±0.4

Step 1 : Remove the screws*2 (red mark).

Step 2 : Remove rear I/O cover.





REAR I/O COVER

Disassembly Notice

Please be sure to disconnect the system from power source.



Screws	QTY	Spec	Torque (kgf-cm)
 	1	SCREW #6-32 L6*H2.3	8.0±0.8

Step 1 : Remove the screw*1 (red mark).

Step 2 : Remove front I/O bracket.



FRONT I/O BRACKET

Disassembly Notice

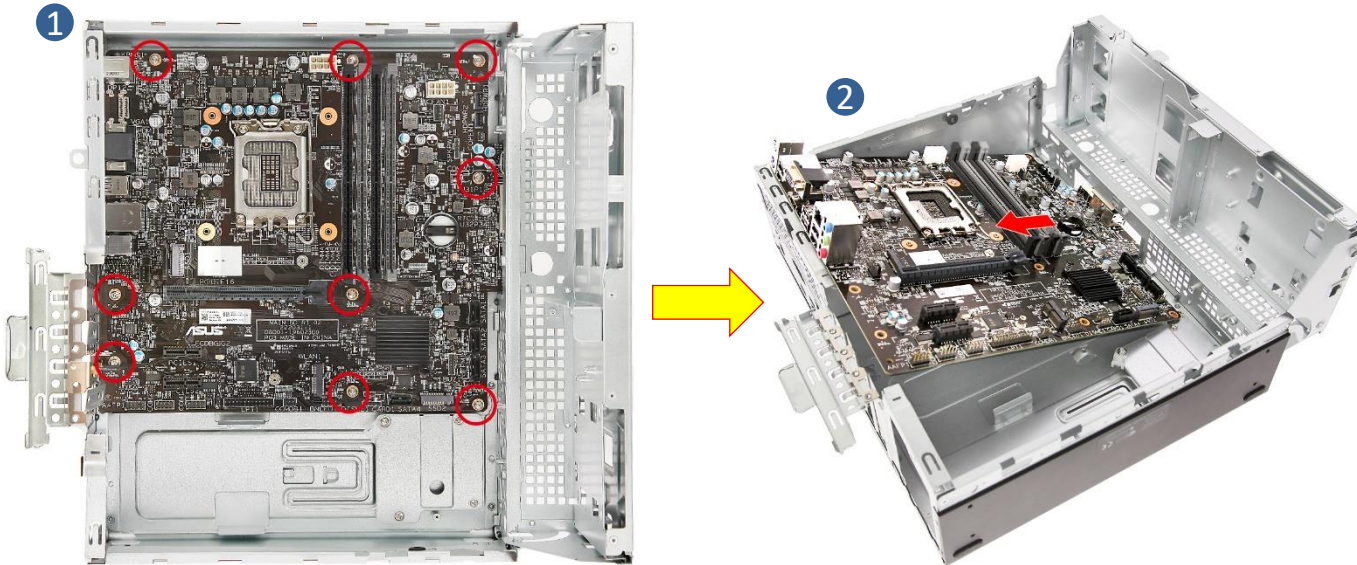
Please be sure to disconnect the system from power source.



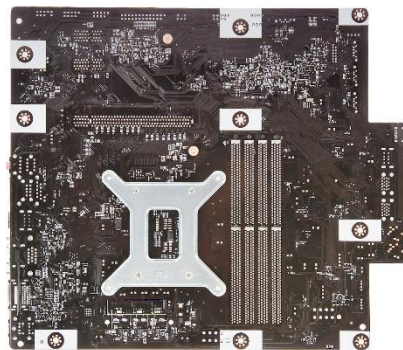
Screws	QTY	Spec	Torque (kgf-cm)
○	9	SCREW M3*4L	5.5±0.55

Step 1 : Remove the screws*9 (red mark).

Step 2 : Remove the mainboard.



MAINBOARD (top view)



MAINBOARD (bottom view)

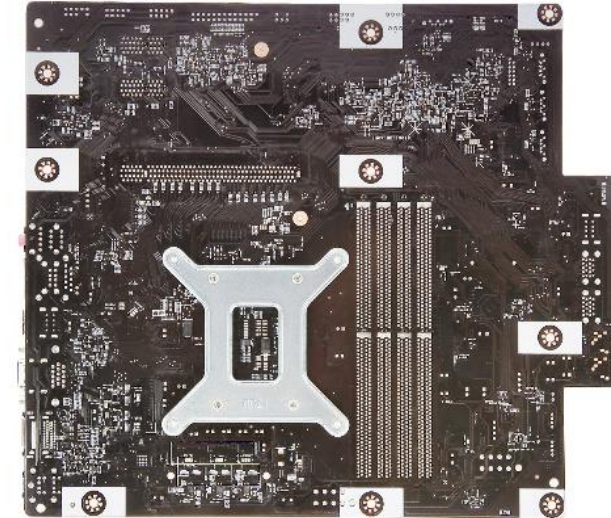
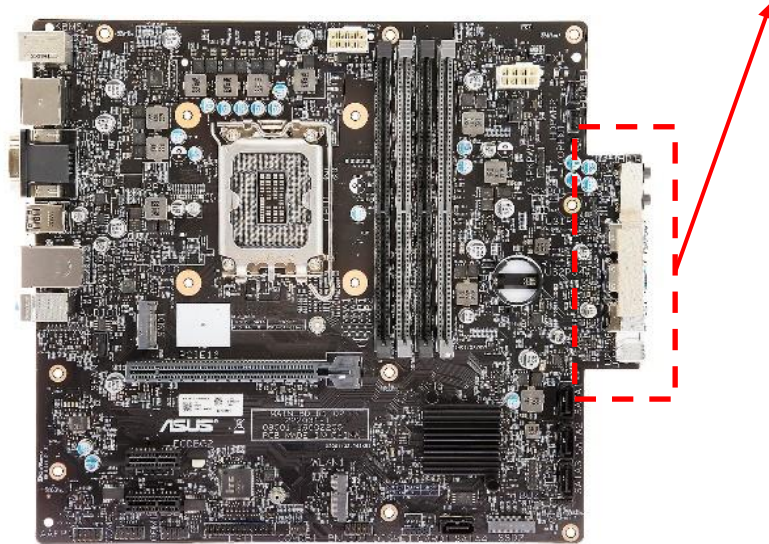
Disassembly Notice

Please be sure to disconnect the system from power source.



AL FOIL*2pcs and EMI GASKET*1pc placement.

Note: This material is not in 60 BOM, when L3/L4 repair is done, do not add a new one.

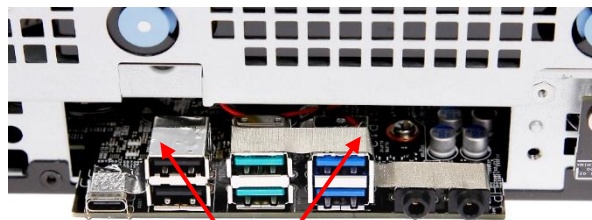


Assembly Notice



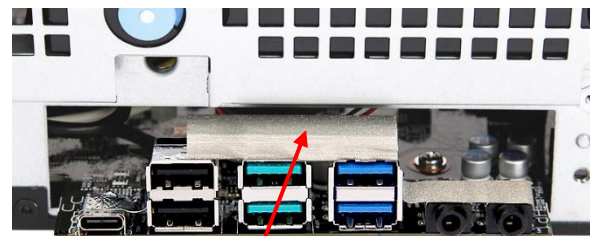
When assembling the MAINBOARD, please follow the steps below to install the AL FOIL and EMI GASKET.

Step 1 : Paste the AL FOIL*2pcs as shown below.



AL FOIL*2pcs

Step 2 : Paste the EMI GASKET*1pc as shown below.



EMI GASKET *1pc

AL FOIL and EMI GASKET after installation.

