

ASUS ROG Zephyrus G15 (GA503R) Series

Service Guide



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Disclaimer

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

Safety precautions

- Keep liquids or moisture away from your Notebook PC before installing or removing any components.
- Ensure to place your Notebook PC on a stable surface before installing or removing any components.
- Detach the clip or flap before removing the signal cables to prevent damage.
- Disconnect the power plug by pulling the plug evenly to avoid damage. Ensure to connect the signal cables in the correct orientation.
- Disconnect all power cables and remove the battery pack (if applicable) before cleaning your Notebook PC with liquid detergent to avoid risk of electric shock.
- Disconnect all power cables and remove the battery pack (if applicable) before installing or removing any components. Ensure to read and follow the instructions in the manual.
- 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.
- Hold components by the edges to avoid touching the ICs.
- Ensure to properly install all the 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.
- Ensure to install the correct screw models on your Notebook PC to prevent damage.

/ISUS

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 - LCD PANEL
 - LCD COVER



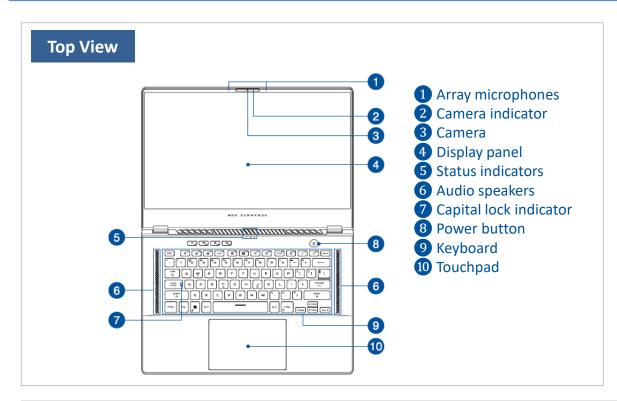
Service Overview

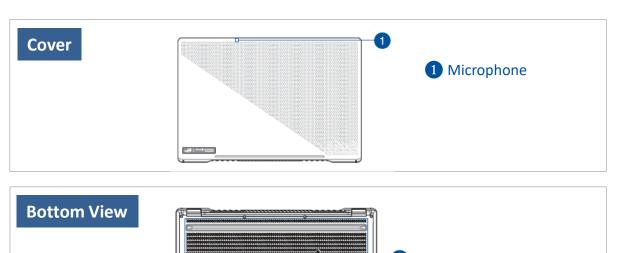
- Carefully read through this Service Guide for a look at various components of the device before performing any service and repairs.
- To provide the best service, we have provided the below information for technicians from distributors and resellers to perform the complete device disassembly and assembly. Before performing the procedures, please be sure to read through the overview in this service guide for component overview to avoid any unwarranted damages to the device hardware.
- The following contents include all part numbers mentioned in the service guide are used for reference only, if you need the exact part number for ordering, please refer to the OrderBook.
- Due to sales policy difference, the components might have different specifications on the same series product, please refer to E-manual by model.

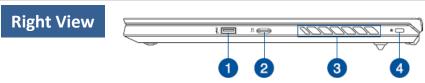
Due to sales policy difference, the components may have different specifications on the same model. If you have any operational issues, please contact the service hotline.



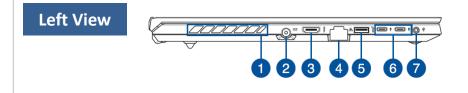
ASUS ROG Zephyrus G15 (GA503R) Series Overview







- 1 USB 3.2 Gen 2 port
- 2 MicroSD card slot
- 3 Air vents
- 4 Kensington® security slot



- 1 Air vents
- 2 Power (DC) input port
- 3 HDMI output port
- 4 LAN port

- 5 USB 3.2 Gen 2 port
- 6 USB 3.2 Gen 2 Type-C® /DisplayPort/ Power Delivery combo port

1 Air vents

2 Audio speakers3 Compartment cover

7 Headphone/Headset/Microphone jack



Components Top View

♦ LCD COVER ASSY



♦ BOTTOM CASE



♦ SSD ABSORBER



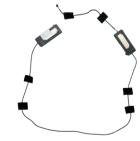
♦ DDR



♦ SENSOR BD



♦ TWEETER SPEAKER



♦ THERMAL MODULE ASSY

♦ 15'6 LCD PANEL



♦ BATTERY



♦ SSD AL FOIL



♦ SODIMM ABSORBER



♦ HALL SENSOR FFC



♦ LCD BEZEL



♦ BATTERY CABLE



♦ THERMAL PAD TOP SSD



♦ WIFI CARD



♦ HALLSENSOR PCB ADH



♦ MAIN BOARD



♦ KEYBOARD MODULE



♦ SSD



♦ THERMAL PAD BOT SSD



♦ WOOFER SPEAKER



♦ VGA FAN ♦ CPU FAN



♦ POWER SWITCH_BD.





Components Top View

♦ FP PW FFC



♦ TP SPONGE



♦ CAMERA







♦ CABLE TAPE



♦ POWER KEY



♦ HINGE



♦ MIC FPC

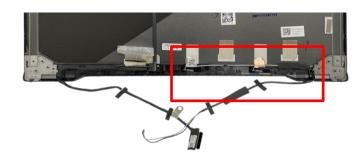
♦ MIC RUBBER



♦ EDP CABLE



♦ WIFI ANTENNA A1&A2



♦ TOUCHPAD MODULE



♦ HINGE CAP







♦ BATTERY RIB RUBBER



♦ TP FFC



♦ HINGE RUBBER





R

♦ TWEETER TAPE







Components Bottom View

♦ LCD COVER ASSY



♦ KEYBOARD MODULE



♦ MAIN BOARD



♦ POWER SWITCH_BD.



♦ LCD BEZEL



♦ BOTTOM CASE



♦ SENSOR BD



♦ POWER KEY



♦ 15'6 LCD PANEL



♦ THERMAL MODULE ASSY



♦ TOUCHPAD MODULE





Repair Overview

This chapter describes disassembly and assembly (Assemble document please look up from the last page), please follow the information provided in this section to perform the complete disassembly procedure.

♦ Precautions:

Before you perform any service or repair on the notebook, please pay special attention to the cautions prevent any damages to the notebook.

- 1. Be sure that the notebook is powered down.
- 2. Before disassembling any part, please disconnect all power source. ex: AC plug/Battery connector/Power protect screw etc.
- 3. Remove all rings, watches and any other metal objects from your hands.





- 4. Always wear a ground strap on your hand to protect the notebook from static discharge.
- 5. Please refer to "ANSI ESD S20.20" about ESD protection measure.
- 6. Put the disassembled parts in the functional PE BAG to avoid any damages of the





- 7. The maintenance environment temperature is 20-30 °C and humidity is 40% 70%.
- 8. To avoid scratching on the surface of machine; please use anti-static and soft materials to put on desk in repair environment as below photo.

9. Screw Appearance Criteria:

If the screws have the following damaged appearance, please do not use.

- a. Shape deformed.
- b. Damaged head unable to drive in or the stripped screw.
- c. Damaged unable to securely tighten.
- d. Paint scratched off.
- e. Rusty











- 10. The following chapter includes all part numbers mentioned in service guide are used for reference only, actual part name depends on different SKU, if you need the exact part number for ordering, please refer to the Orderbook.
- 11. Due to sales policy difference, the components may have different specifications on the same model. Please note that all pictures and components shown on Service Guide are for disassembly/assembly description purpose only, so please refer to the actual product for disassemble/assemble.



Appropriate Tools

Please prepare and select the appropriate tools to disassemble/assemble for the ASUS ROG ZEPHYRUS G15 (GA503R) notebook.

♦ 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 up cables.



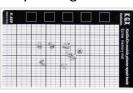
♦ Thickness Gauge

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 Pad PTM7958





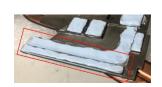




♦ PLASTIC CARD T=0.35mm



♦ FCR-AS Thermal Grease





Appropriate Tools

Please prepare and select the appropriate tools to disassemble/assemble for the ASUS ROG ZEPHYRUS G15 (GA503R) notebook.



Item	Part Name	Memo
1	Silicone scraping pen	
2	Conductonaut 1g (Liquid Metal)	 Please store it in the environment of 10 ~ 40 °C. Please keep cover tightly closed until ready for next time use. Shipping category: Dangerous Goods.
3	AMD Rembrandt steel plate	
4	Stainless steel plate (60mm*20mm*0.2t)	
5	95% alcohol	
6	Dust-free cloth	
7	Dust-free cotton swab//class 100 (100pcs)	



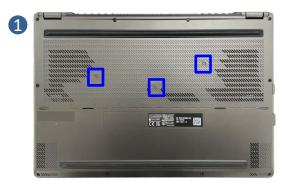
BOTTOM CASE

Disassembly Notice

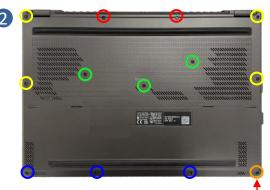
Step 1: Remove the Screw Rubber *3pcs.

Step 2: Remove the screws *12pcs.

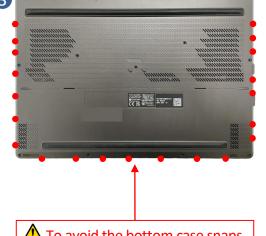
Step 3: Use the plastic blade to pry the bottom case.



Screw Rubber *3pcs

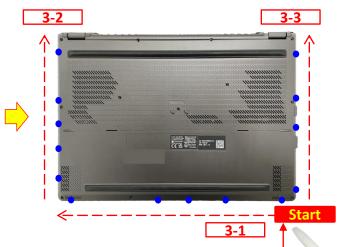


⚠ The screw is unable to remove from bottom case, so please always loosen it last, and lock it at first.



To avoid the bottom case snaps, don't insert plastic blade in each red circle.

Screws QTY Torque (kgf-cm) Spec M2*11.5L (4.5,0.8) (K) #1 2.0 2 M2*11L (4.5,0.8) (K) #1 2.0 4 3 M2*8L (4.5,0.8) (K) #1 2.0 M2.5*3.4L+4.6(4.0,0.8) (K) #1 2.0 1 TO 3 M2*5.5L (4,0.8) (K)#1 2.0



A Please follow above arrow direction with using plastic blade to pry bottom case in each blue circle location. (To avoid the bottom case hook, please prying at each blue circle location.)







BOTTOM CASE

Assembly Notice

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





When assembly the BOTTOM CASE:

Please follow below order to install and fix BOTTOM CASE.

STEP 1: Install BOTTOM CASE with slight tilt at upper side first.

STEP 2: Keep BOTTOM CASE (By left hand) with slight tilt, and then press upper side of BOTTOM CASE to fix from right to left.

STEP 3: Put the bottom case down slowly, and then press left and right side of BOTTOM CASE to fix.

STEP 4: In the end, press lower side of BOTTOM CASE to fix.



Parts Description

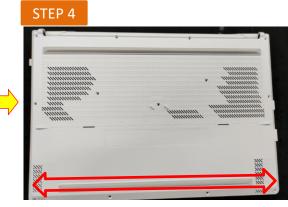
GU603ZX THERMAL COVER MYLAR 2

GU603ZX THERMAL COVER MYLAR 1



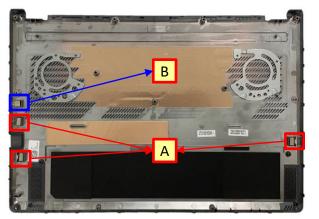




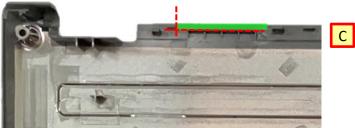


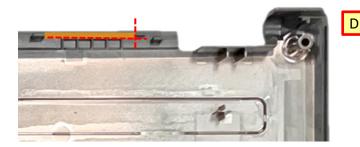


Please according to location below to paste GASKET and MYLAR.



	Parts Description		
A	GA503RX BTM CASE IO GASKET		
В	GA503RX BTM CASE DC GASKET		
С	GU603ZX THERMAL COVER MYLAR 2		
D	GU603ZX THERMAL COVER MYLAR 1		







BATTERY

Disassembly Notice

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





Before disassembly battery connector, please be sure to pull out adapter and disconnect the battery more than ten seconds in order to IC damage.

Step 1: Use the non-conductive pry tool to push iron sheet.

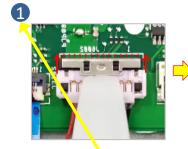
Step 2: Use the non-conductive pry tool to disconnect battery connector.

Step 3: Remove the screws *4pcs.

Step 4: Remove the BATTERY.

Step 5: Disconnect the BATTERY CABLE from the BATTERY.

Screws	QTY	Spec	Torque(kgf-cm)
TO	2	M2*8L (4.5,0.8) (K) #1	2.0
TO	2	M2*4.5L (4.5,0.8) (K) #1	2.0



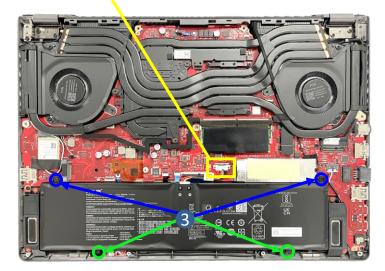






















BATTERY

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

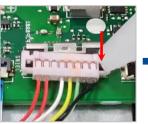




To prevent getting a short circuit or an electric shock accident, please follow the below steps to connect the battery

connector. Step 1: Use the non-conductive pry tool to connect the black cable side first, then connect the red cable side.

Step 2: Use the non-conductive pry tool to push the iron sheet.

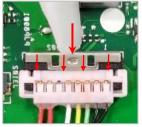










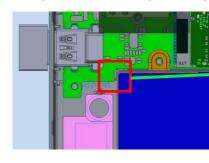






For BATTERY RIB RUBBER assembly, please follow below location to paste.

* The BATTERY RIB RUBBER need to be attached on the rib.







SSD

Disassembly Notice

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



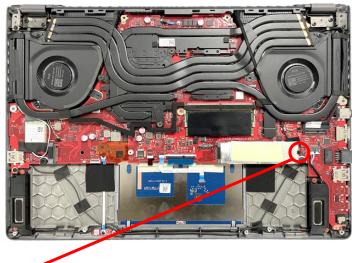
Step 1	: Remove	the screw	*1pc.
--------	----------	-----------	-------

Step 2: Remove the SSD.

Step 3: Remove the THERMAL PAD and the AL FOIL, tear off t

Step 4: Remove the THERMAL PAD from motherboard.

	Screws	QTY	Spec	Torque (kgf-cm)
the ABSORBER from SSD.	TO	1	M2*4.5L (4.5,0.8) (K) #1	2.5























1 Remove









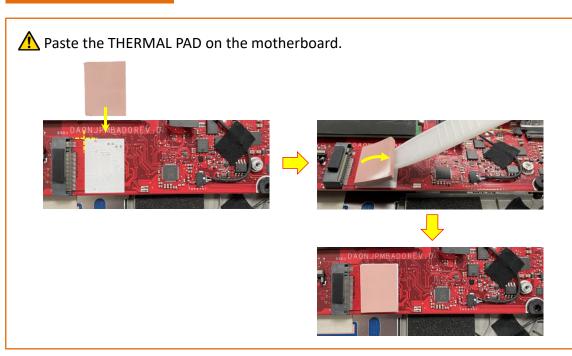


SSD

Assembly Notice

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











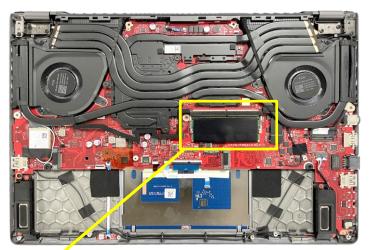
DDR

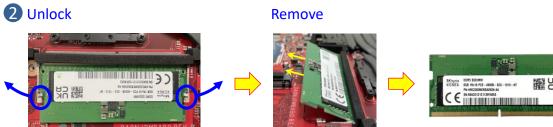
Disassembly Notice

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

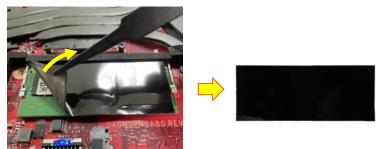


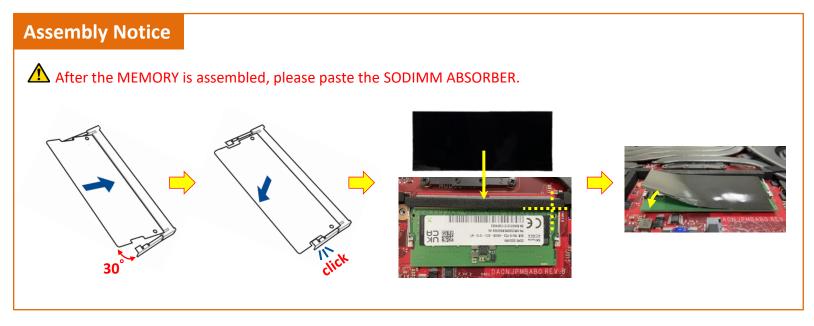
- Step 1: Tear off the SODIMM ABSORBER from DDR.
- Step 2: Unlock and remove the RAM module *1pc (yellow mark).













WIFI CARD

Disassembly Notice

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

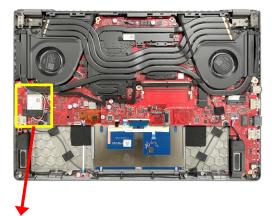


Step 1 : Tear off the CABLE TAPE *1pc.

Step 2: Disconnect the RF CABLE connector *2pcs.

Step 3 : Remove the screw *1pc. Step 4 : Remove the WIFI CARD.

Screws QTY Spec		Torque (kgf-cm)	
T ()	1	M2*2L (4.5,0.5) (K) #1	2.0











Tear off





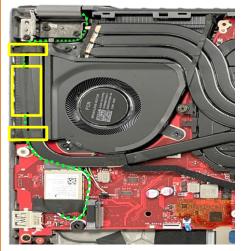






Assembly

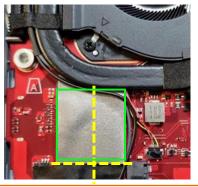
Please according to below mark to tidy up and assemble WIFI ANTENNA.







Please according to location below to paste WLAN ABSORBER.







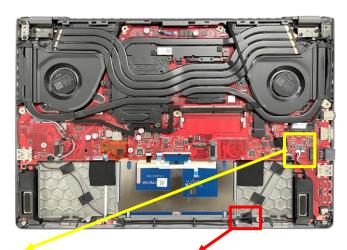
WOOFER SPEAKER

Disassembly Notice

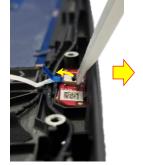
Please be sure to pull out adapter and disconnect the battery.



- Step 1: Disconnect the WOOFER SPEAKER connector.
- Step 2: Release the TWEETER TAPE *1pc and keep it on the cable.
- Step 3: Disconnect the HALL SENSOR FFC connector.
- Step 4: Remove the WOOFER SPEAKER.

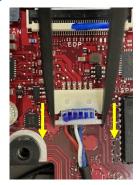








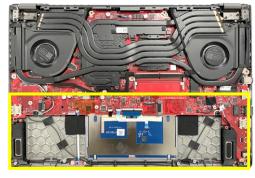
1 Disconnect





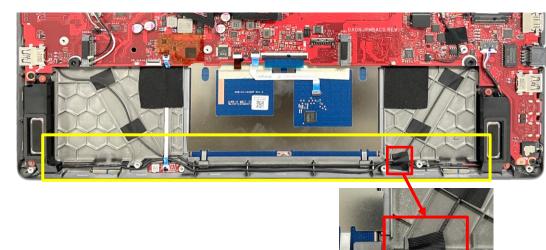


4 Remove



Assembly Notice

For WOOFER SPEAKER assembly, please follow the mark below to tidy up cable and paste TWEETER TAPE *1pc.







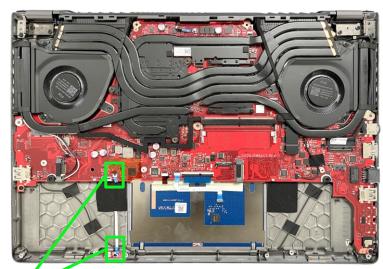
SENSOR BD

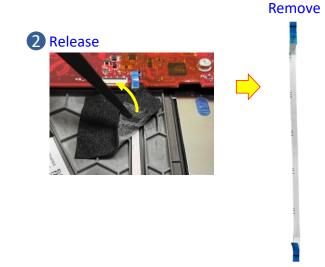
Disassembly Notice

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



- Step 1: Disconnect the HALL SENSOR FFC connector.
- Step 2: Release the TP SPONGE and remove the HALL SENSOR FFC.
- Step 3: Remove the SENSOR BD.

















Assembly Notice

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





When assembly the SENSOR BD, please paste HALLSENSOR PCB ADH (1pc) as below.





FAN

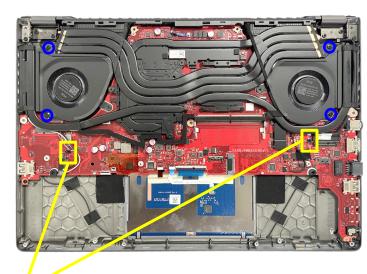
Disassembly Notice

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

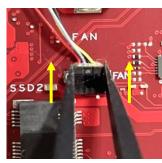
Step 1: Disconnect the connectors *2pcs (yellow mark).

Step 2: Remove the screws *4pcs (blue mark).

Step 3: Remove the FAN *2pcs.

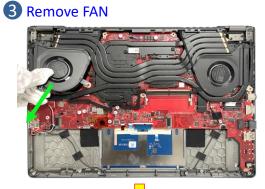


1 Disconnect (Yellow mark)



2 Remove screws (Blue mark)









Torque (kgf-cm) Screws QTY Spec 10 M2*4.5L (4.5,0.8) (K) #1 2.0

Assembly Notice

Please use the correct technique to take fans off to avoid getting out of shape.







MAIN BOARD AND THERMAL MODULE

Disassembly Notice

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



- Step 1: Disconnect the connectors *6pcs (yellow mark).
- Step 2: Release the tapes and sponges (green area and orange mark) and keep them on the cable.
- Step 3: Remove the screws *2pcs (blue mark).
- Step 4: Remove the MB and Thermal module together.

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

- Disconnect (Yellow mark)
- Release tapes and sponges (Green area and orange mark)
- Remove screws (Blue mark)





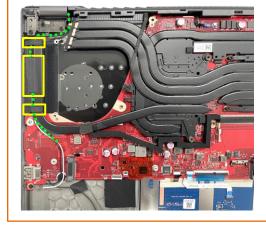




Assembly Notice

A Please follow the mark below to tidy up EDP cable and WIFI ANTENNA, then paste CABLE TAPE and sponges.

WIFI ANTENNA



EDP CABLE





TWEETER SPEAKER

Disassembly Notice

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

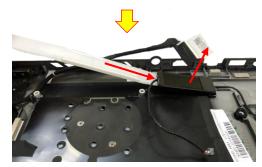
Step 1: Release the TWEETER TAPES *5pcs (yellow mark) and keep them on the cable.

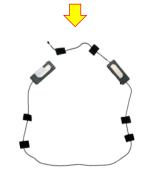
Step 2 : Remove the TWEETER SPEAKER *1pc.



2 Remove





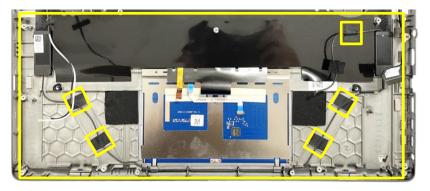


1 Release tapes (Yellow mark)

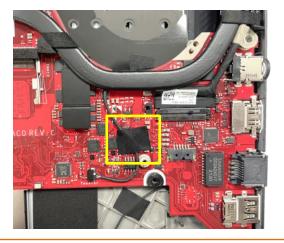


Assembly Notice

For TWEETER SPEAKER assembly, please follow the mark below to tidy up cable and paste TWEETER TAPES.



For TWEETER SPEAKER assembly, please follow the mark below to paste TWEETER TAPE *1pc.





THERMAL MODULE

Disassembly Notice

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



Screws	QTY	Spec	Torque (kgf-cm)
	4	M2*4.5L (4.5,0.8) (K) #1	2.0
*0	3	Retention Screw	2.0

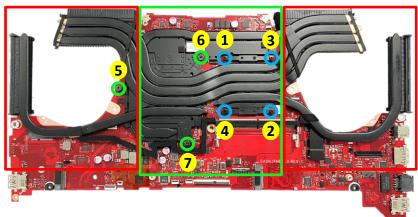
Step 1: Follow the reverse screw numbers to remove screws *4pcs(blue circle), and release screws *3pcs(green circle).

Step 2: Remove the THERMAL MODULE from MB.



Recommend that the force point is at green block, and pull up thermal module to take it out. Do not pull up at red block and also notice the thermal pipe should not have deformation.





Remove



Only GA503RJ/GA503RJ GPU use Liquid metal, Please refer Repair Notice SOP for Liquid metal rework.

Please refer Repair Notice SOP for Liquid metal rework.

Assembly Notice



Step-1

THERMAL MODULE Location:[VRAM/CHOKE/MOS] Material: FCR-AS Grease

MB Location:[GPU]

Material:

Main (GA500 Grease)

(Only GA503RJ/GA503RJ GPU use Liquid metal please refer step-2)

Step-2

Please refer Repair Notice SOP for Liquid metal rework when reassemble thermal module before.

MB Location:[CPU]

Step-3

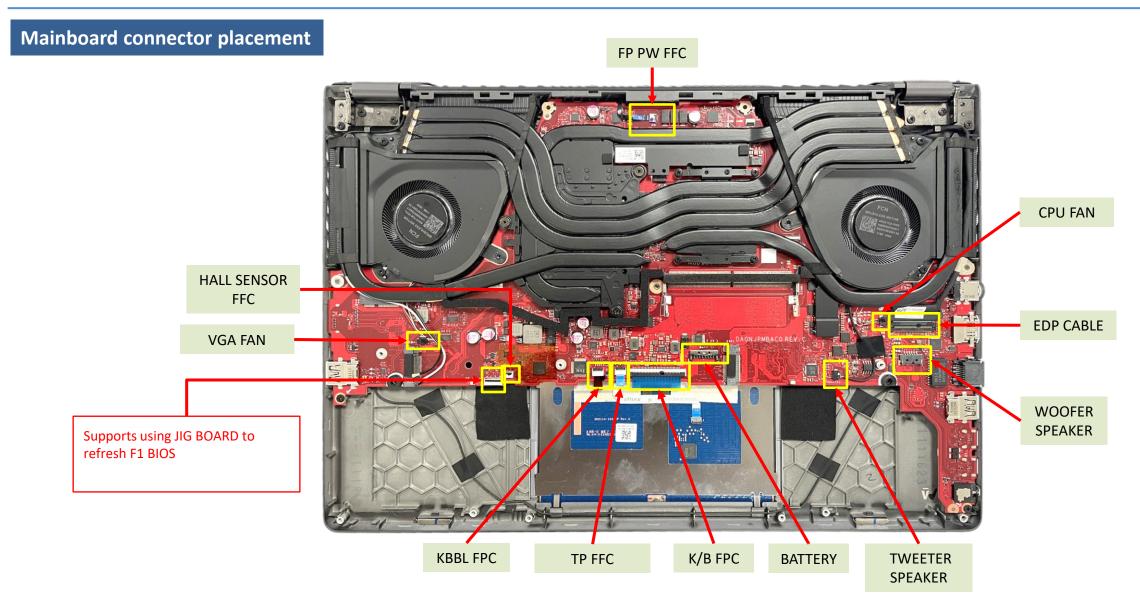
Please follow the screws numbers to lock screws *8pcs.

IMPORTANT! Thermal paste, thermal pads, liquid metal, or other thermal interface materials must be thoroughly removed and replaced if this component is removed. Ensure that replacement materials are available before proceeding, or contact an authorized service center for assistance.

WARNING! The heat sink contains liquid metal and should only be removed by authorized service personnel. Significant damage may occur to motherboard components if the heat sink is improperly removed.



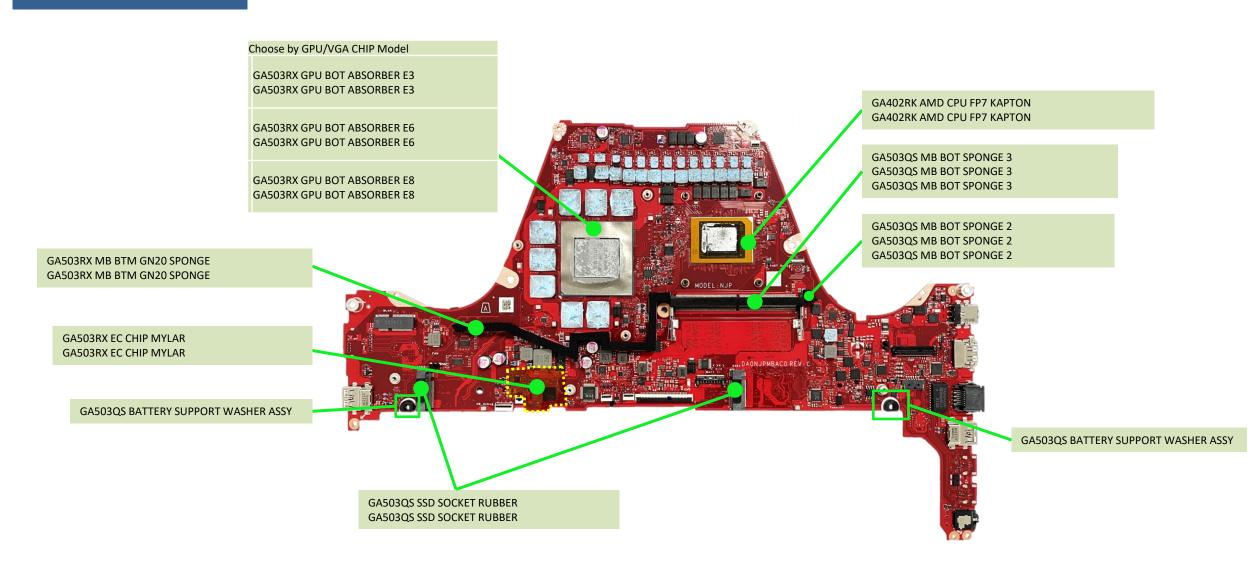
MAIN BOARD





MAIN BOARD

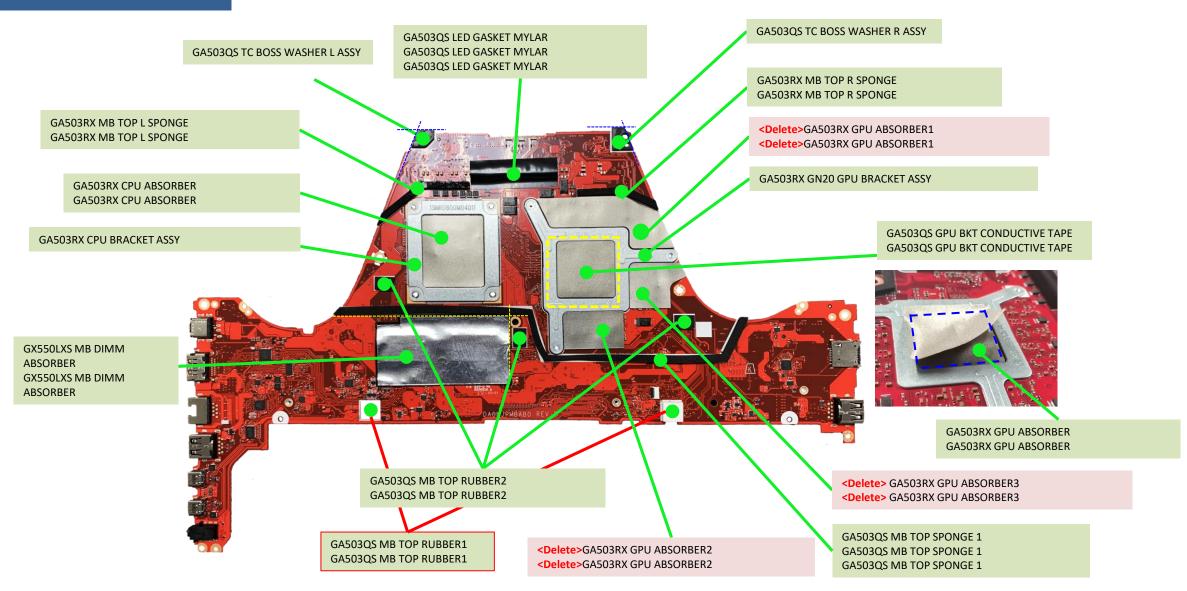
Materials on mainboard





MAIN BOARD

Materials on mainboard





1 Remove

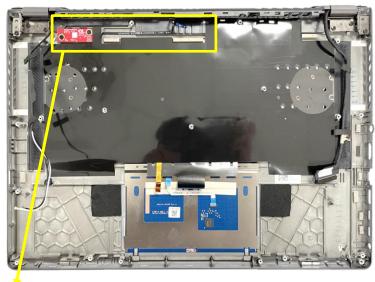
POWER SWITCH_BD

Disassembly Notice

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



- Step 1 : Remove the screws *2pcs.
- Step 2: Release the MYLAR and remove the POWER SWITCH_BD and FP PW FFC.
- Step 3: Disconnect the FP PW FFC connector and remove the FP PW FFC.
- Step 4: Remove the POWER KEY *1pc.







Remove POWER SWITCH BD and FP PW FFC















Screws	QTY	Spec	Torque (kgf-cm)
TO T	2	M2*3L (K) B-ZN #1 NY	2.0

Assembly Notice

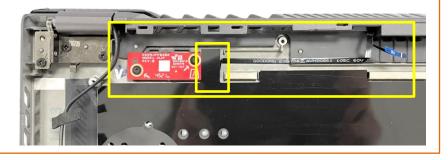
If FFC is damage during disassembly, please replace new one. Here are some samples of FFC damage:







Please follow the yellow mark to tidy up FP PW FFC.





1 Disconnect

Remove

TOUCHPAD MODULE

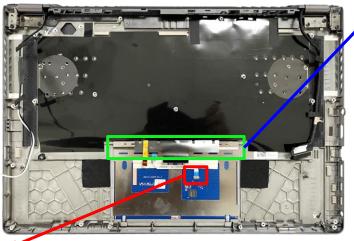
Disassembly Notice

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



- Step 1: Disconnect the TP FFC connector (red mark) and remove the TP FFC.
- Step 2: Release the KB FPC (green mark).
- Step 3: Remove the screws *3pcs and take out the TOUCHPAD MODULE.

Screws	QTY	Spec	Torque (kgf-cm)
F O	3	M2*2.5L (4.5,0.5) (K) #1	2.0

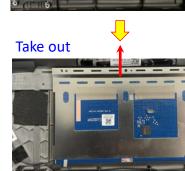






2 Release







Assembly Notice

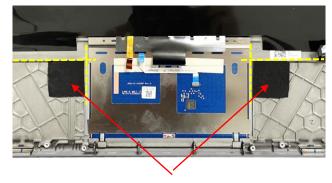
If FFC is damage during disassembly, please replace new one. Here are some samples of FFC damage:







For TP SPONGE assembly, please follow below location to paste.



TP SPONGE



KEYBOARD MODULE

Disassembly Notice

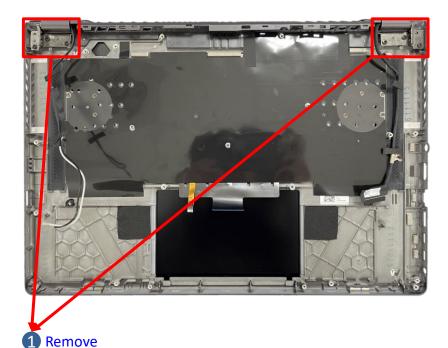
Please be sure to pull out adapter and disconnect the battery.



Step 1: Remove the screws *6pcs (red mark).

Step 2: Open and remove the KEYBOARD MODULE.

Screws	Screws QTY Spec		Torque (kgf-cm)
10	6	M2*4.5L (4.5,0.8) (K) #1	2.5



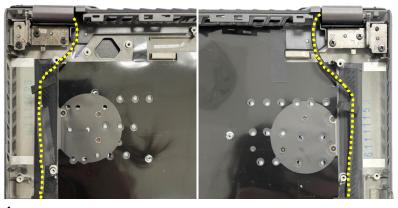






Assembly Notice

A Please follow the yellow mark to tidy up cable.



After Keyboard module assemble, please follow below location to paste the CD SNAP TAPE.



LCD BEZEL

Disassembly Notice

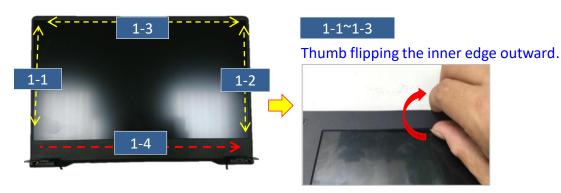
Please be sure to pull out adapter and disconnect the battery.



Step 1: Remove the LCD BEZEL.



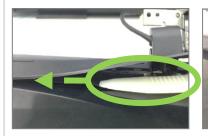
Step 1-1~1-3, Start from the middle area of each side of bezel, Using the forefinger to hold the outer edge firmly and the thumb flipping the bezel inner edge outward to release the hooks as indicated in the diagram shown. (It can be helpful, if holding the bezel outer edge firmly with forefinger.)



Step 1-4, Due to some tapes behind the lower edge of bezel, please using plastic blade to teardown the bezel.

Please follow the direction shown in the red arrow, to move plastic blade from left to right and peel the bezel away slowly. While peeling, please move the blade in the parallel direction to the panel and **pressing the black Mylar downward** (As circled in green) to ensure the black Mylar and the tape behind the bezel are well separated.

Please move blade slowly to separate the bezel away, and must press the black Mylar downward with panel parallel direction..











When reuse the LCD BEZEL:

Please paste new <u>LCD BEZEL ADHESIVE</u> before assembly BEZEL. (New LCD BEZEL already contains LCD BEZEL ADHESIVE *4pcs)

Part Name
GA503RX LCD BEZEL AD DOWN
GA503RX LCD BEZEL AD L/R
GA503RX LCD BEZEL GLUE





LCD PANEL

Disassembly Notice

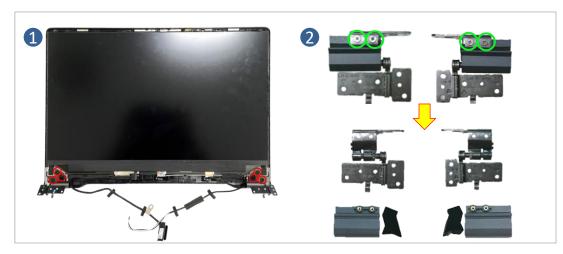
Please be sure to pull out adapter and disconnect the battery.

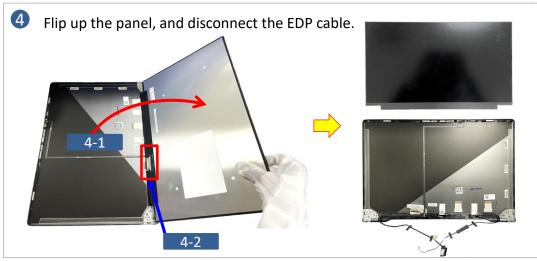
Step 1: Remove the screws *6pcs and remove the hinges *2pcs.

Step 2: Remove the screws *4pcs and remove the hinge cap *2pcs and hinge rubber *2pcs.

Step 3: Pull out the LCD adhesive *2pcs.

Step 4 : Remove the LCD PANEL.

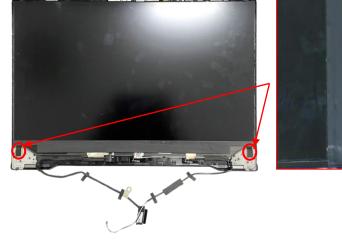


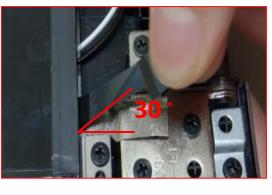




3

Please pull the adhesive up about 30 degree slowly, and don't pull out the tape in vertical direction!







LCD PANEL AND LCD COVER

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





Please use the fingertip to clean the residual glue on PANEL or BEZEL.





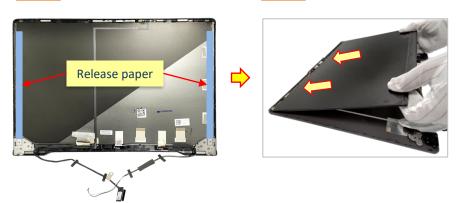
When assembly the LCD PANEL:

Step 1: Remove release paper of LCD Adhesive *2pcs.

Step 2: Assembly and align the LCD to the upper side of the LCD Cover.

Remove

Align





LCD COVER

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



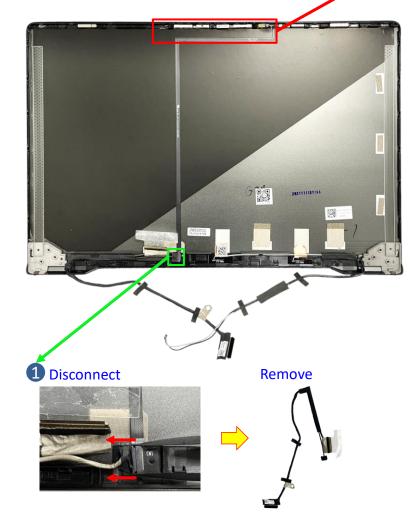


Step 2: Disconnect the MIC FPC connector (red mark).

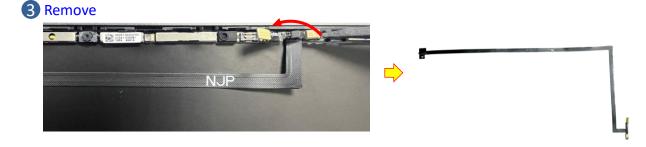
Step 3: Remove the MIC FPC *1pc.

Step 4: Remove the CAMERA.

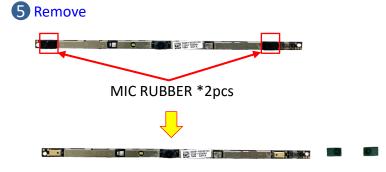
Step 5: Remove the MIC RUBBER *2pcs.













LCD COVER

Assembly Notice

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





