ASUS ROG Zephyrus M16(GU603H) series

Service Guide

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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.

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  - KEYBOARD MODULE
  - LCD BEZEL
  - LCD PANEL
  - LCD COVER MODULE

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.

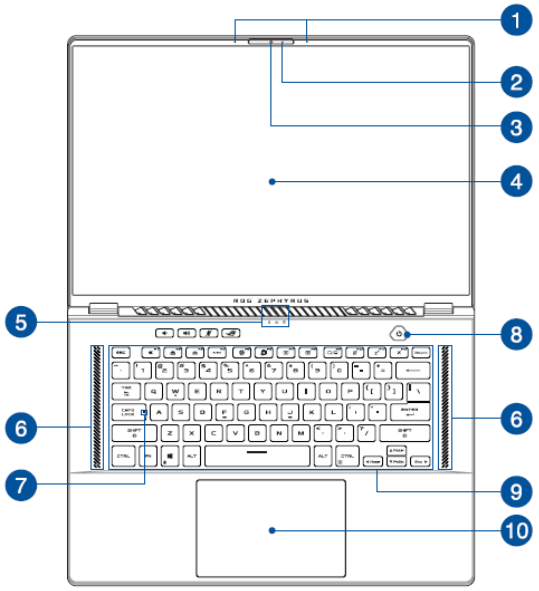
- The following contents include all part numbers mentioned in the service guide are **used for reference only**, if you need the exact part number for ordering, please refer to the OrderBook.

- 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.

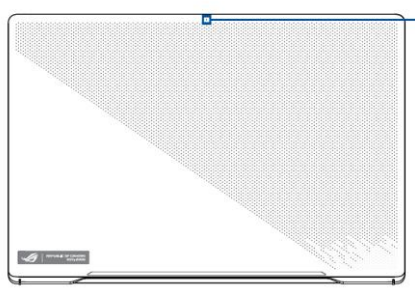
ASUS ROG Zephyrus M16 (GU603H) series Overview

Top View



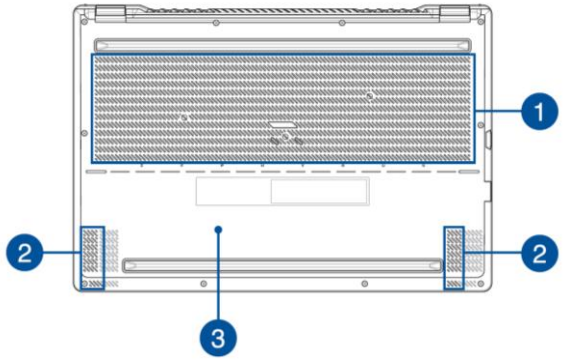
1. Array microphones
2. Camera indicator
3. Camera
4. Display panel
5. Status indicators
6. Audio speakers
7. Capital lock indicator

Cover View



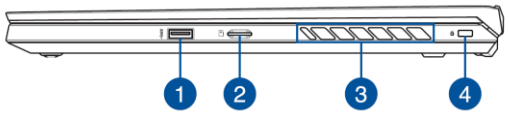
1. Microphone

Bottom View



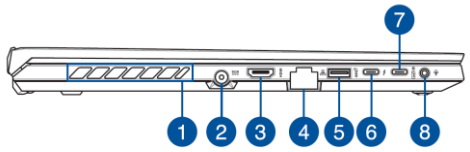
1. Air vents
2. Audio speakers
3. Compartment cover

Right View



1. USB 3.2 Gen 1 port
2. MicroSD card slot
3. Air vents
4. Kensington® Security slot

Left View



1. Air vents
2. Power (DC) input port
3. HDMI port
4. LAN port
5. USB 3.2 Gen 2 port
6. Thunderbolt™ 4 port
7. USB 3.2 Gen 2 Type-C® /DisplayPort/Power Delivery combo port
8. Headphone/Headset/Microphone Jack

Components Top View

♦ LCD COVER MODULE

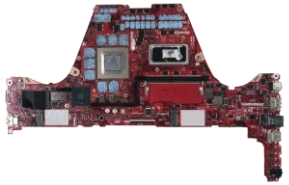
♦ LCD BEZEL

♦ LCD Panel (16”)

♦ BASE CASE

♦ KEYBOARD MODULE

♦ MAIN BOARD

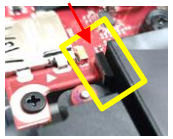


♦ THERMAL MODULE ASSY

♦ GPU FAN

♦ CPU FAN

♦ BATTERY RIB RUBBER



♦ FP TOUCH

♦ POWER KEY RUBBER

♦ POWER KEY HOLDER

♦ BATTERY

♦ TOUCHPAD MODULE

♦ HINGE L/R

♦ HINGE CAP L/R

♦ HINGE DECO RUBBER L/R

♦ DDR

♦ WIFI CARD

♦ SSD

♦ HALL SENOR BD

♦ EDP CABLE

♦ BATTERY CABLE

♦ SCREW RUBBER

♦ CAMERA

♦ TP FFC
(8P 0.5 L76mm)

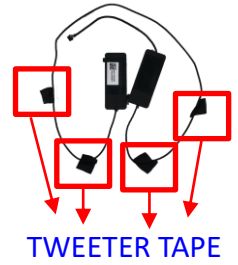
♦ MIC FPC

♦ HALL SENSOR FFC
(4P 0.5 L89mm)

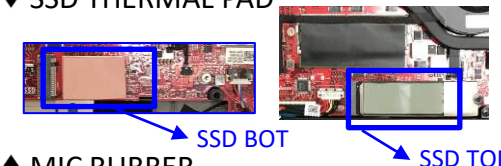
♦ FP PW FFC
(10P 0.5 L77mm)

♦ WOOFER SPEAKER

♦ TWEETER SPEAKER

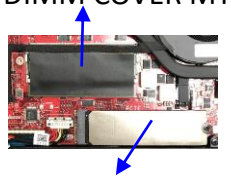


♦ SSD THERMAL PAD



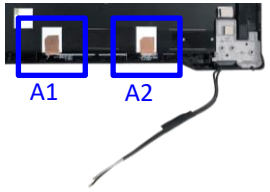
♦ MIC RUBBER

♦DIMM COVER MYLAR

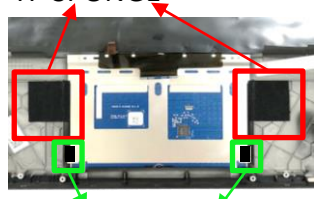


♦SSD ABSORBER

♦ WIFI ANTENNA

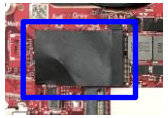


♦ TP SPONGE



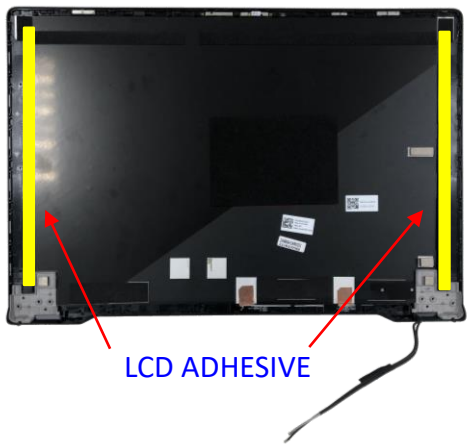
♦ TP HOLDER MYLAR

♦ WIFI MODULE MYLAR



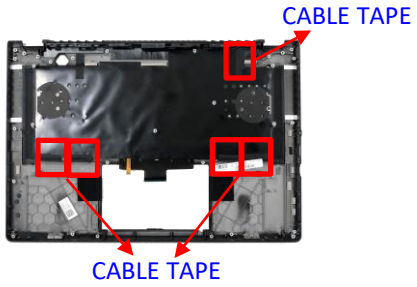
Components Bottom View

♦ LCD COVER MODULE



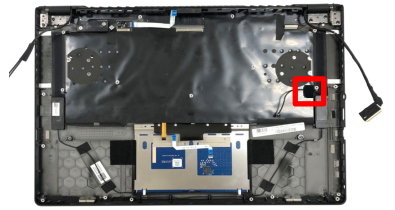
♦ MAIN BOARD

♦ KEYBOARD MODULE

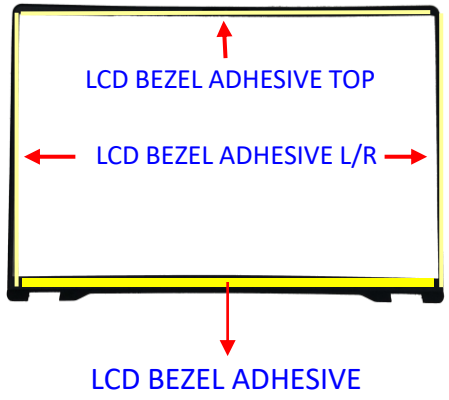


♦ LCD Panel

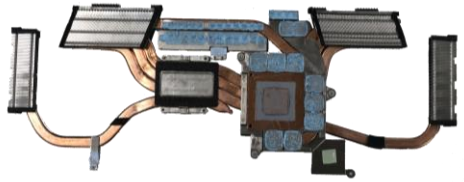
♦TWEETER TAPE



♦ LCD BEZEL



♦ THERMAL MODULE ASSY

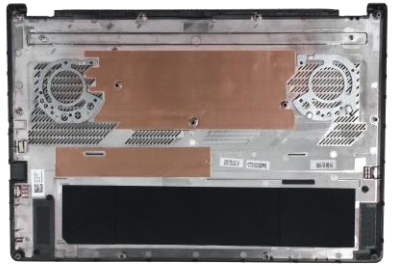


♦ HALLSENSOR BD

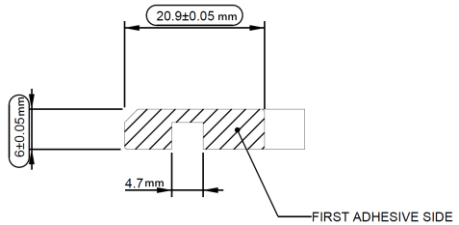
♦ LCD CU FOIL

♦ FP TOUCH

♦ BASE CASE

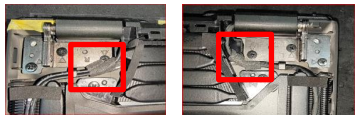


♦ HALL SENSOR PCB ADH

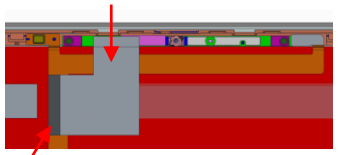


♦ GRAPHITE

♦ CABLE SPONGE



♦ MIC FPC GND TAPE



♦ MIC FPC GND SPONGE

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.

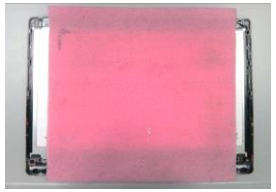
♦ Precautions:

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 A/B/C/D part.



7. The maintenance environment temperature is 20-30 ℃ 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 M16 (GU603H) series** notebook.

♦ Screwdriver

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

#1

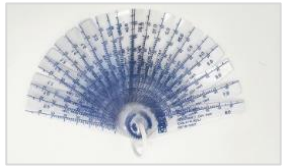
♦ Plastic Blade

♦ Plastic Tweezers

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

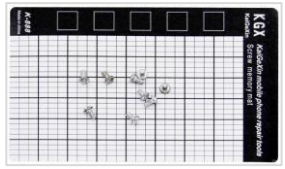
♦ Thickness Gauge

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%

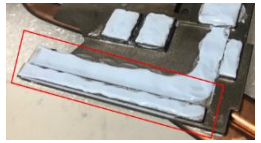
♦ Glove

♦ Dust-free Cloth

♦ Thermal Pad PTM7958

♦ PLASTIC CARD T=0.35mm

♦ FCR-AS Thermal Grease



♦ PLASTIC PICK T=0.5mm

♦ NB LCD MYLAR *4pcs

Use it to align panel position.

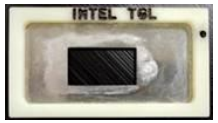
LCD MYLAR can be reused 5 to 10 times, please stick it on the plastic bag save after used, and repeatedly use until lose stickiness.

Back

Appropriate Tools

Please prepare and select the appropriate tools to disassemble/assemble for the **ASUS ROG Zephyrus M16 (GU603H) series** notebook.

1

3


5

7

2

4

6

⚠ **Warning! When the tool is with Liquid Metal residue, please clean tools with dust free cloth and 95% alcohol.**

Tooling Type	Item	Part Name	Memo
For Liquid metal use	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	Intel CPU TGL steel plate	
	4	Stainless steel plate (60mm*20mm*0.2t)	
For Clean use	5	Dust-free cotton swab//class 100 (100pcs)	
	6	95% alcohol	
	7	Dust-free cloth	

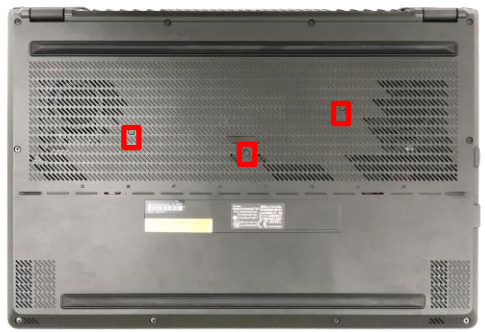
BOTTOM CASE

Disassembly Notice

Step 1 : Remove rubbers *3pcs.
Step 2 : Remove screws *12pcs.
Step 3 : Use plastic blade to pry the bottom case.

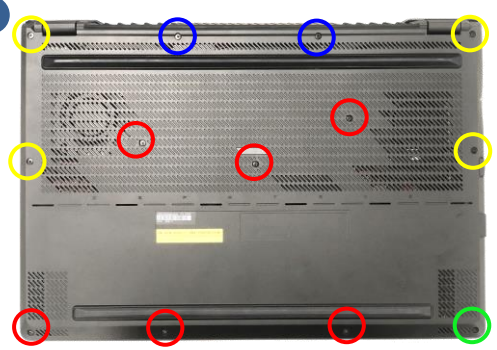
Screws	QTY	Spec	Torque (kgf-cm)
	2	M2*11.5L (4.5,0.8) (K) #1	2.0±0.2
	6	M2*8L(4.5,0.8) (K)#1	2.0±0.2
	4	M2*11L (4.5,0.8) (K) #1	2.0±0.2
	1	Retention Screw	2.0±0.2

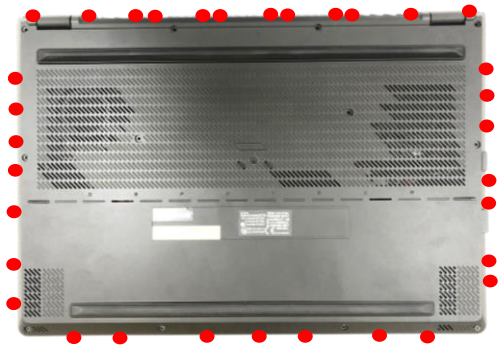
1

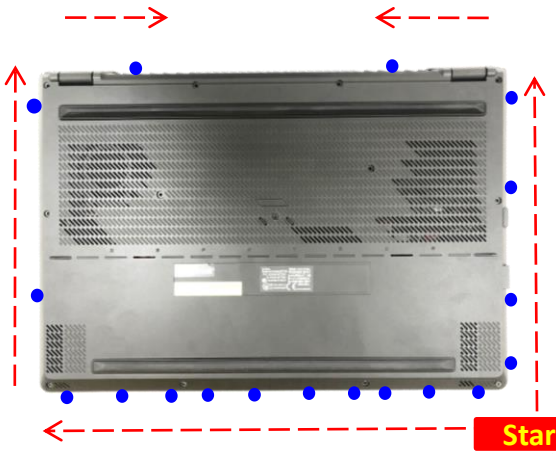


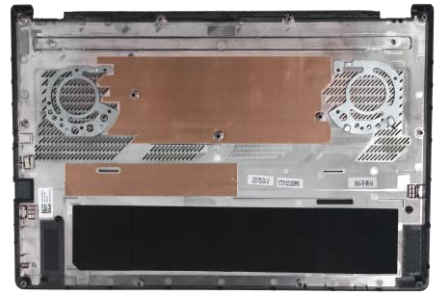
(*3 PCS)

2









⚠ 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 hook, don't insert plastic blade in each red circle.

⚠ 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.)

BATTERY

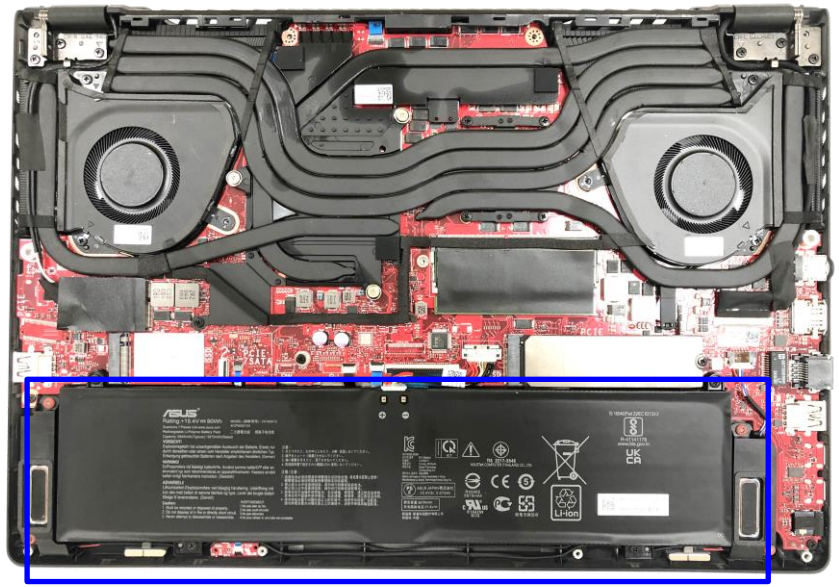
Disassembly Notice

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

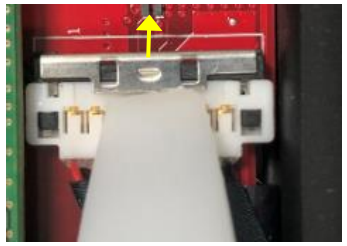
⚠ Before disassembly battery connector, please be sure to pull out adapter and disconnect the battery more than ten seconds in order to IC damage.

Step 1 : Disconnect the battery connector.
Step 2 : Remove screws *4pcs.
Step 3 : Remove BATTERY.
Step 4 : Disconnect battery cable.

Screws	QTY	Spec	Torque(kgf-cm)
	2	M2*8L(4.5,0.8) (K)#1	2.0±0.2
	2	M2*4.5L (4.5,0.8) (K) #1	2.0±0.2



1 Disconnect



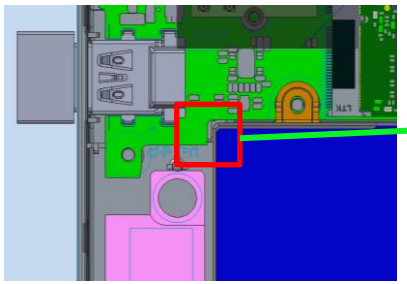
2 Unscrew

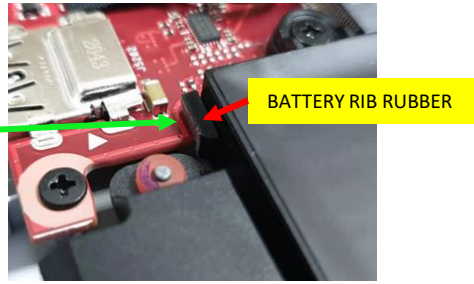
3 Remove

4 Disconnect

Assembly Notice

⚠ For BATTERY RIB RUBBER assembly,
please follow below location to paste.
* The BATTERY RIB Rubber need to be attached on the rib.



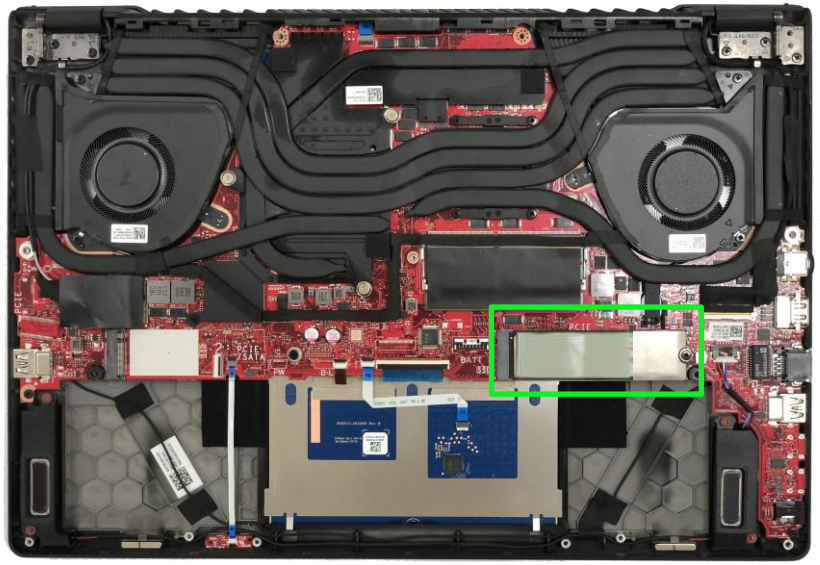


SSD

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

Step 1 : Remove the TOP THERMAL PAD and screw.
Step 2 : Remove SSD and BOT THERMAL PAD.
Step 3 : Tear off SSD ABSORBER from SSD.

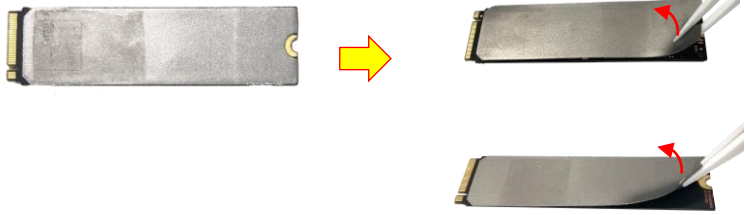
Screws	QTY	Spec	Torque(kgf-cm)
	1	M2*4.5L(4.5,0.8) (K)#1	2.0±0.2



1 Remove and Unscrew

2 Remove

3 Tear off



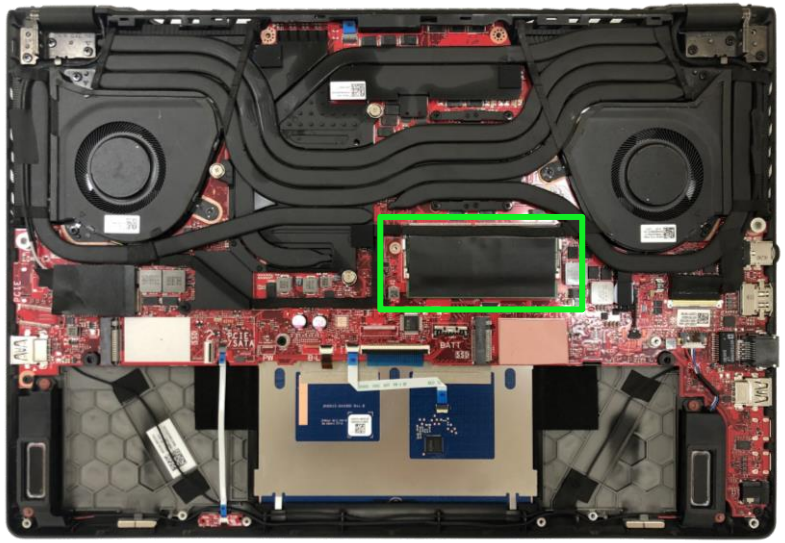
(*2pcs)

DDR

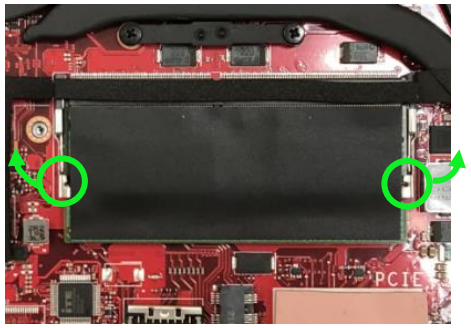
Disassembly Notice

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

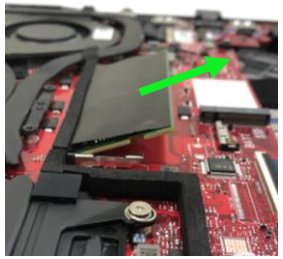
Step 1 : Unlock the DDR.
Step 2 : Remove the DDR.
Step 3 : Tear off SODIMM ABSORBER and MYLAR from DDR.



1 Unlock



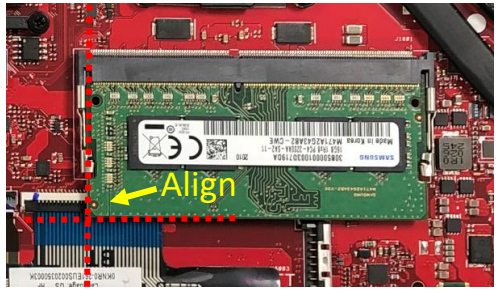
2 Remove



3 Tear off

Assembly Notice

⚠ Please make sure to paste ABSORBER on the front and back side of DDR, before assembling the DDR.



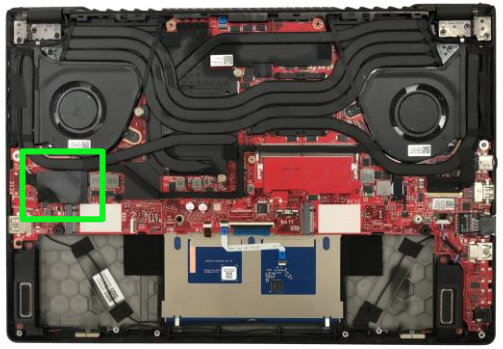
WIFI CARD

Disassembly Notice

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

Step 1 : Flip up the Mylar and tear off the tape.
Step 2 : Disconnect RF cable *2pcs.
Step 3 : Remove the screw.
Step 4 : Remove the WLAN.

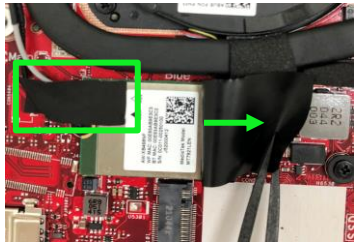
Screws	QTY	Spec	Torque(kgf-cm)
	1	M2*4.5L(4.5,0.8) (K)#1	2.0±0.2



Assembly Notice

⚠ Please according to below image to assemble RF cable.

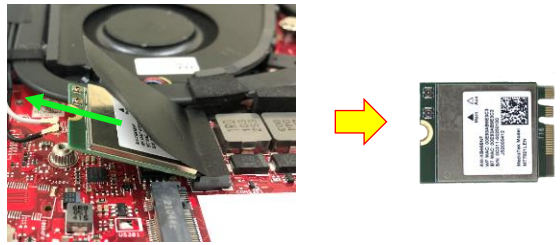
1 Flip up and Tear off



2 Disconnect

3 Unscrew

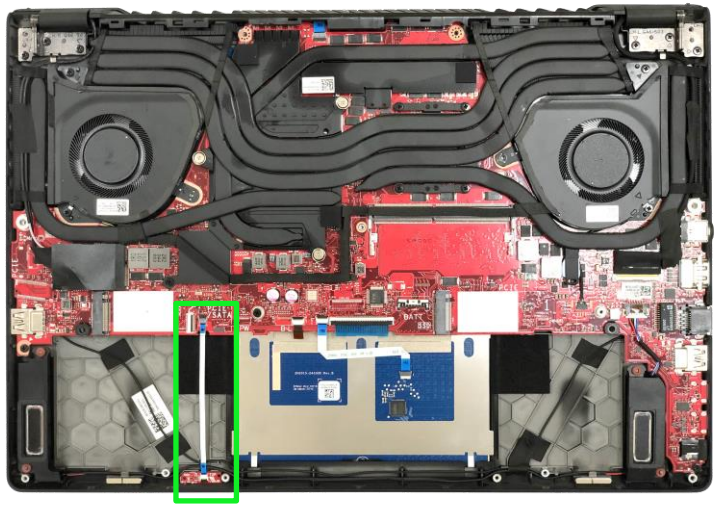
4 Remove



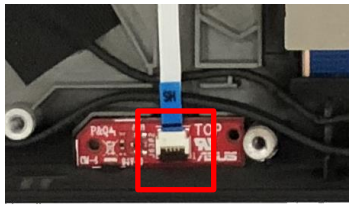
HALL SENSOR BD

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

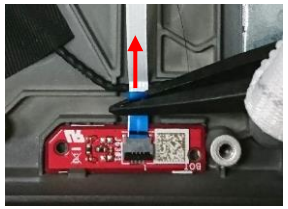
Step 1 : Disconnect the HALL SENSOR FFC connector.
Step 2 : Remove HALL SENSOR FFC.
Step 3 : Remove HALL SENSOR BD.

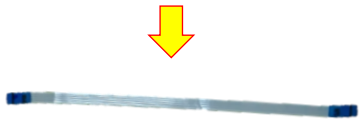


1 Disconnect

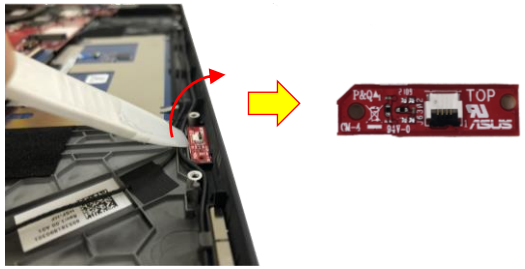


2 Remove



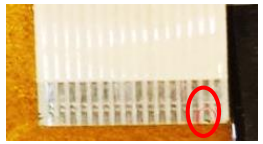


3 Remove

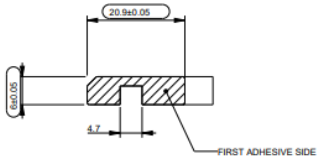


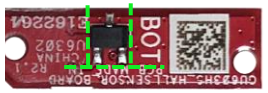
Assembly Notice

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



For HALL SENSOR BD assembly, please paste HALLSENSOR PCB ADH (1pcs) as below.



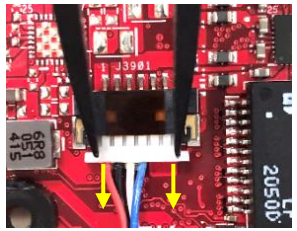


WOOFER SPEAKER

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

Step 1 : Disconnect the SPEAKER connector.
Step 2 : Remove the SPEAKER.

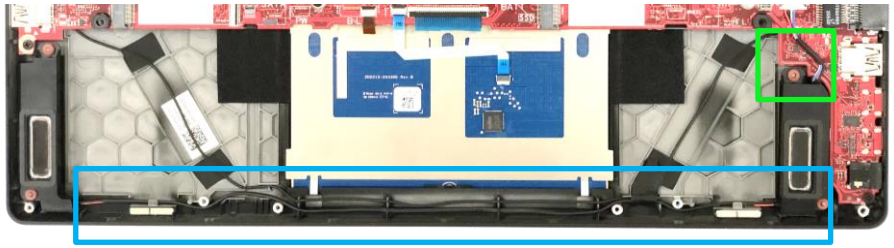
1 Disconnect

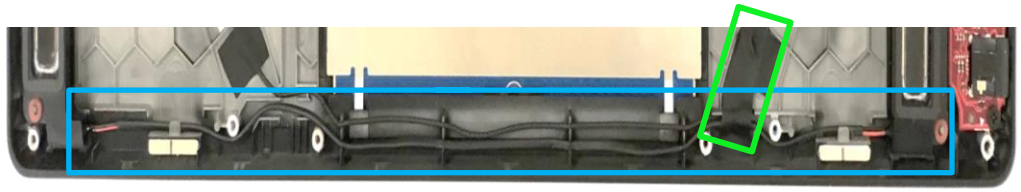


2 Remove

Assembly Notice

⚠ For Woofer Speaker assembly, please follow the mark below to tidy cable.





THERMAL MODULE

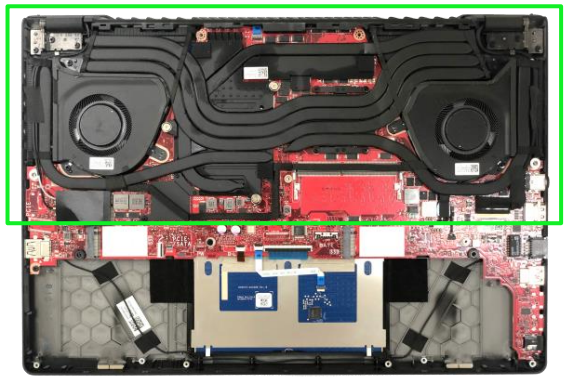
Disassembly Notice

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

Step 1 : Disconnect EDP cable (Blue area) and release tapes (Green area) and keep them on the cable.
Step 2 : Please follow the reverse screws numbers to release and remove screws *8pcs.
Step 3 : Remove the THERMAL MODULE.

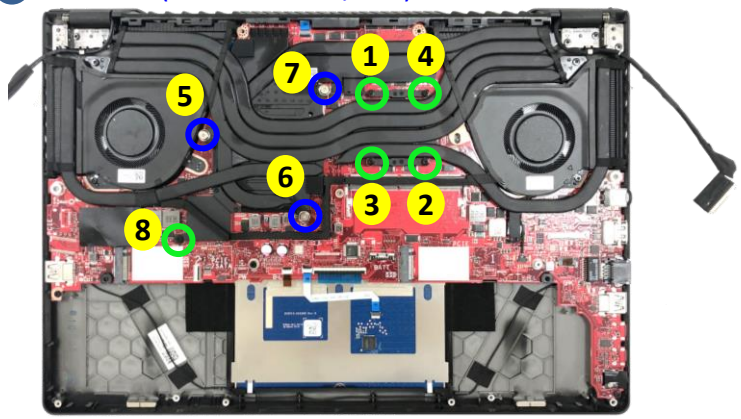
Screws	QTY	Spec	Torque (kgf-cm)
	5	M2*4.5L (4.5,0.8) (K) #1	2.0±0.2
	3	Retention screw	2.0±0.2

⚠ 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.

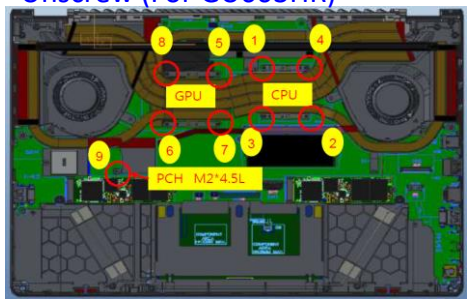


1 Disconnect and Release tapes

2 Unscrew (For GU603HE/HM)



Unscrew (For GU603HR)



3 Remove

Assembly Notice

Step-1

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

- MB Location:[GPU]
  Material:
  Main :(TH PAD PTM7958)

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.

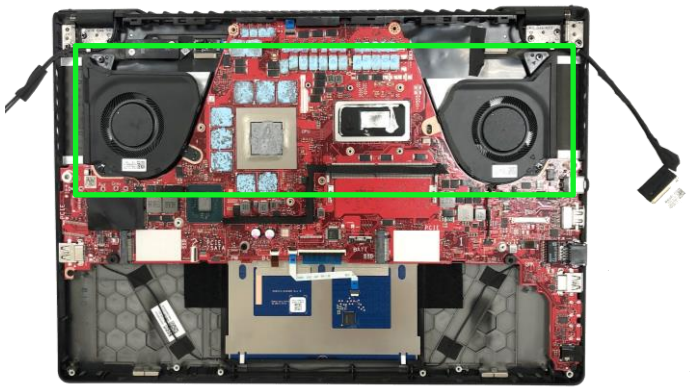
WARNING! The heat sink contains liquid metal and should only be removed by authorized service personnel. Significant damage may occur to motherboard components if the heat sink is improperly removed.

FAN

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

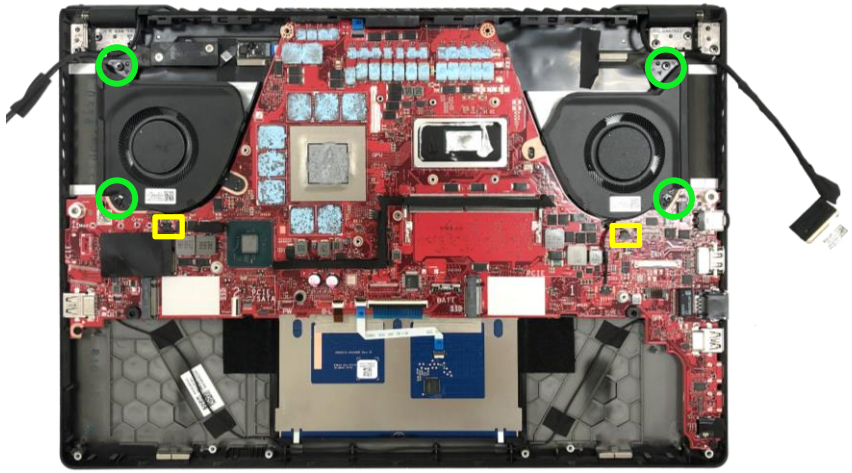
Step 1 : Disconnect connectors *2pcs. (Yellow area)
Step 2 : Remove screws *4pcs.
Step 3 : Remove the FAN *2pcs.

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

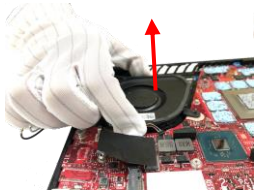


1 Disconnect

2 Unscrew

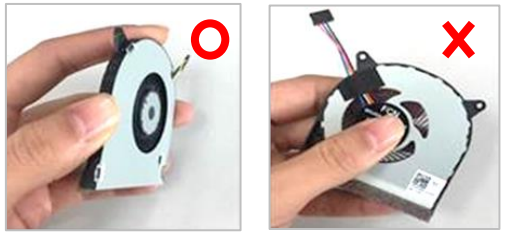


3 Remove



Assembly Notice

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



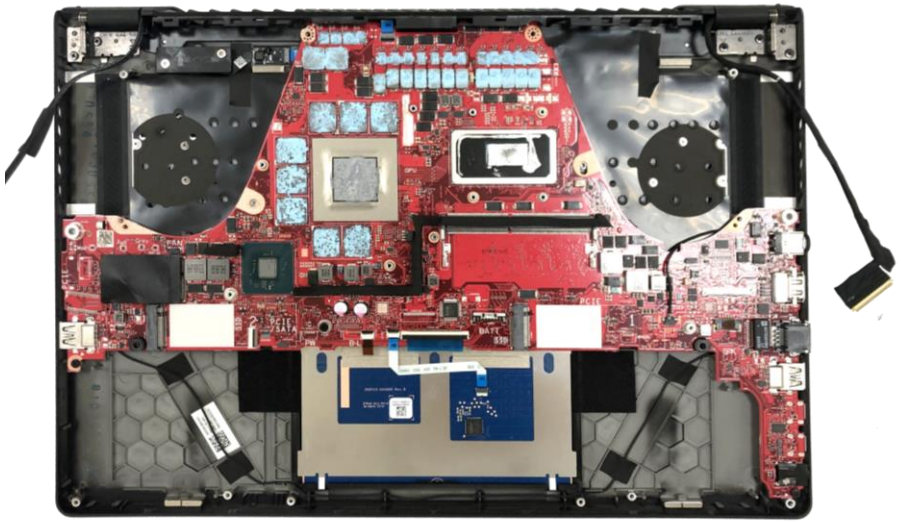
⚠ For EDP cable and Antenna, please follow below location to paste CABLE SPONGE. (Blue mark).

MAIN BOARD

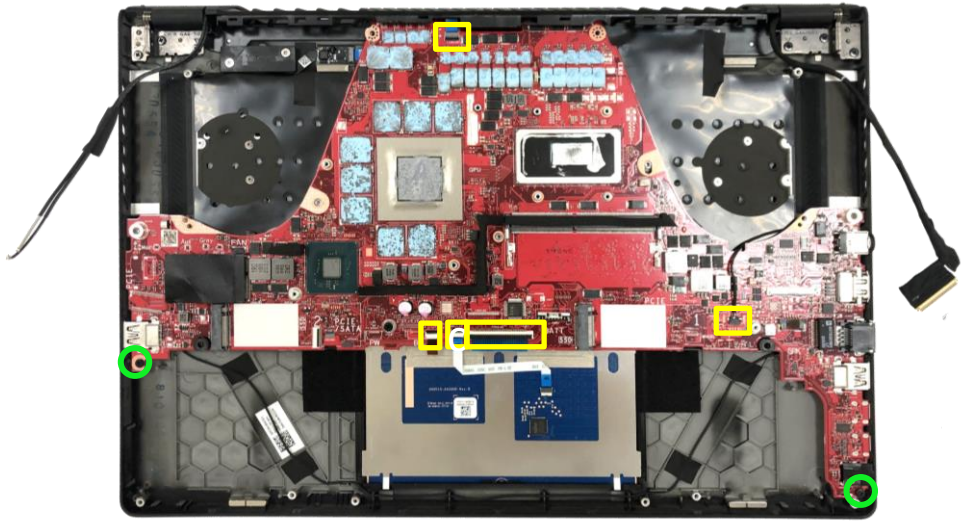
Disassembly Notice Please be sure to pull out adapter and disconnect the battery.

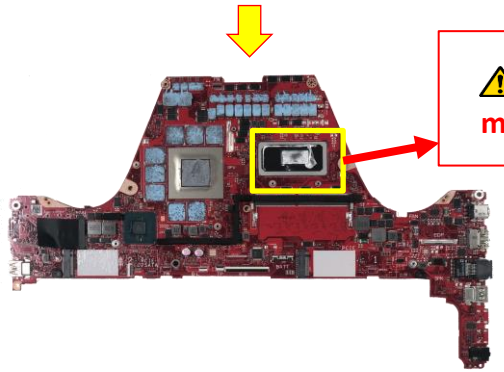
Step 1 : Disconnect connectors. (Yellow mark)
Step 2 : Remove screws *2pcs. (Green)
Step 3 : Remove the MAIN BOARD.

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



1 Disconnect
2 Unscrew

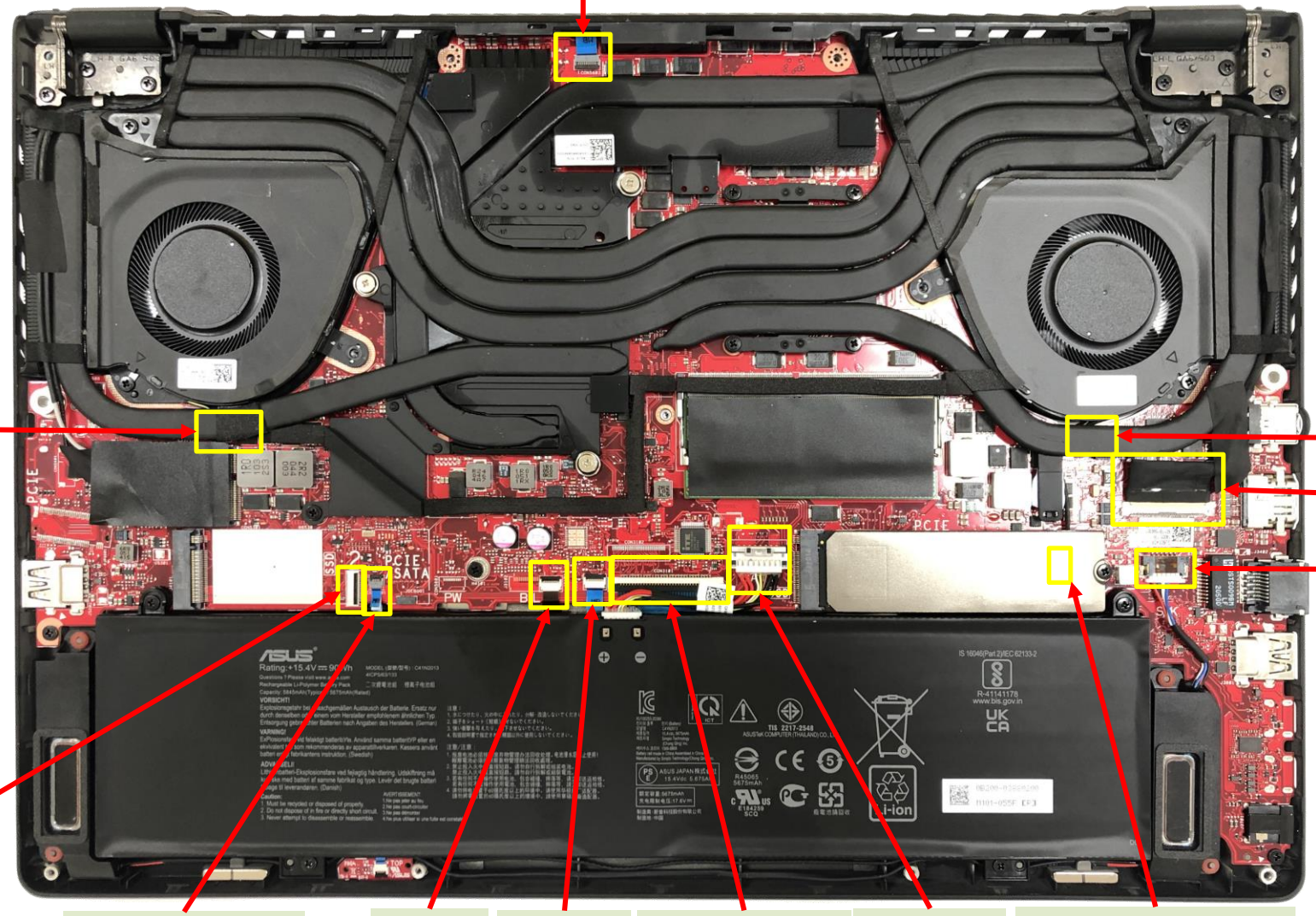




⚠ Please refer Repair SOP to rework Liquid metal.

MAIN BOARD

Mainboard connector placement



MAIN BOARD

Materials on mainboard

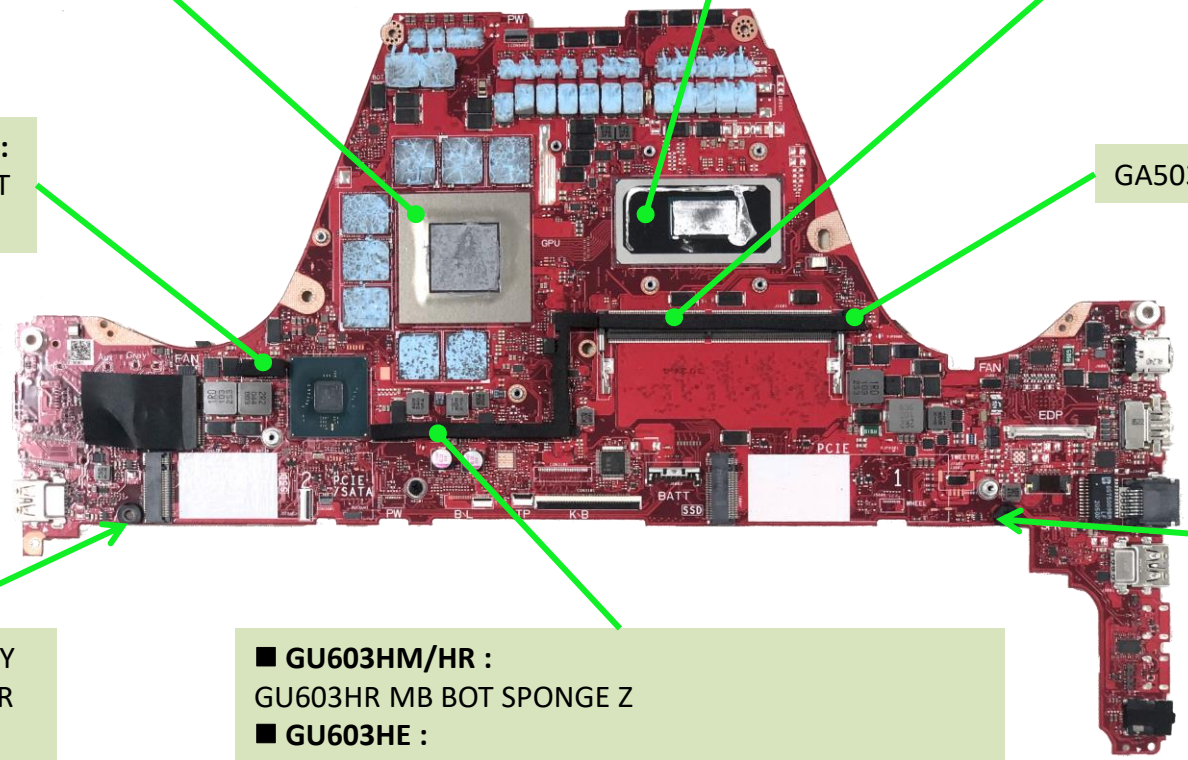
■ **GU603HM :**
GX703HS GN20-E3 GPU ABSORBOR
■ **GU603HR :**
GX703HS GN20-E GPU ABSORBOR
■ **GU603HE :**
G531GW X50 TI GPU MYLAR

GU603HR TGL-H CPU MYLAR

GA503QS MB BOT SPONGE 3

■ **GU603HM/HR :**
GU603HR MB BOT SPONGE PCH

GA503QS MB BOT SPONGE 2



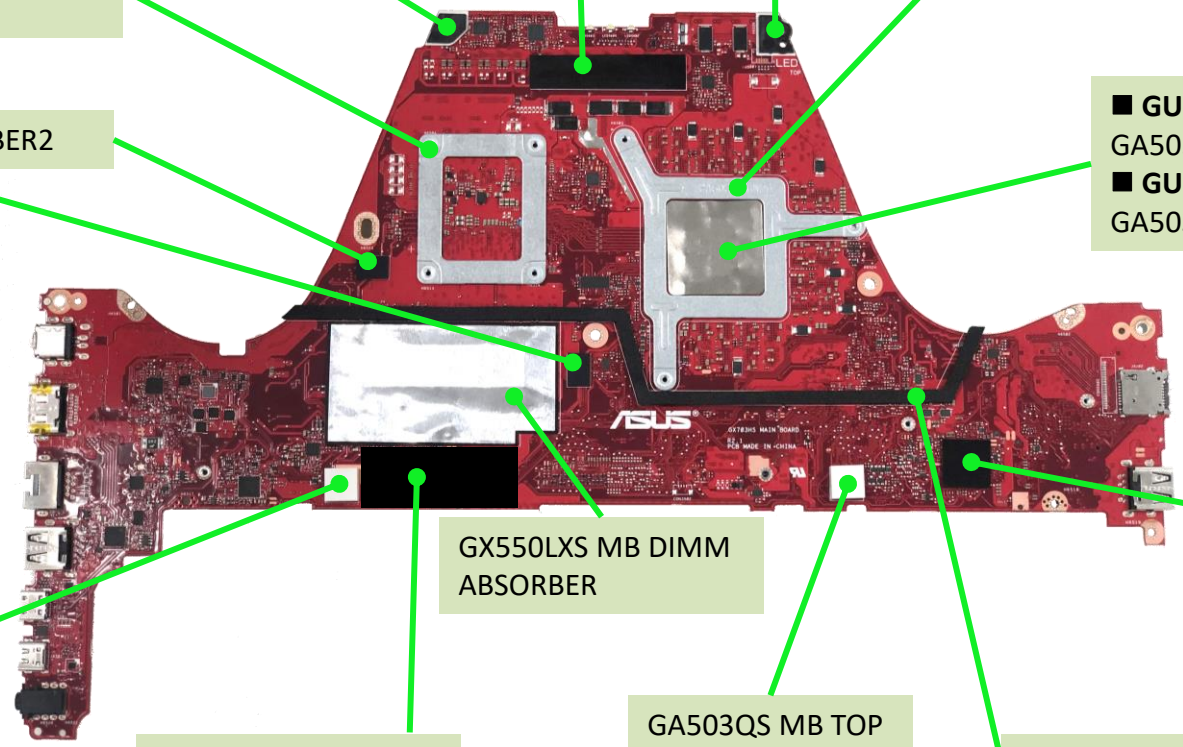
GA503QS BATTERY SUPPORT WASHER ASSY

GA503QS BATTERY SUPPORT WASHER ASSY

■ **GU603HM/HR :**
GU603HR MB BOT SPONGE Z
■ **GU603HE :**
GU603HE MB BOT SPONGE Z 20P

MAIN BOARD

Materials on mainboard



GA503QS TC BOSS WASHER R ASSY

GA503QS TC BOSS WASHER L ASSY

GU603HR LED GASKET MYLAR

■ **GU603HM/HR :**
GA503QS GN20 GPU BRACKET ASSY
■ **GU603HE :**
GV301QE GPU BKT ASSY

GU603HR TGL-H CPU BRACKET ASSY

GA503QS MB TOP RUBBER2

■ **GU603HM/HR :**
GA503QS GPU ABSORBER
■ **GU603HE :**
GA503QE GN20-P GPU ABSORBER

GX550LXS MB DIMM ABSORBER

GU603HR MB EC MYLAR

GA503QS MB TOP RUBBER1

MB TP MYLAR

GA503QS MB TOP RUBBER1

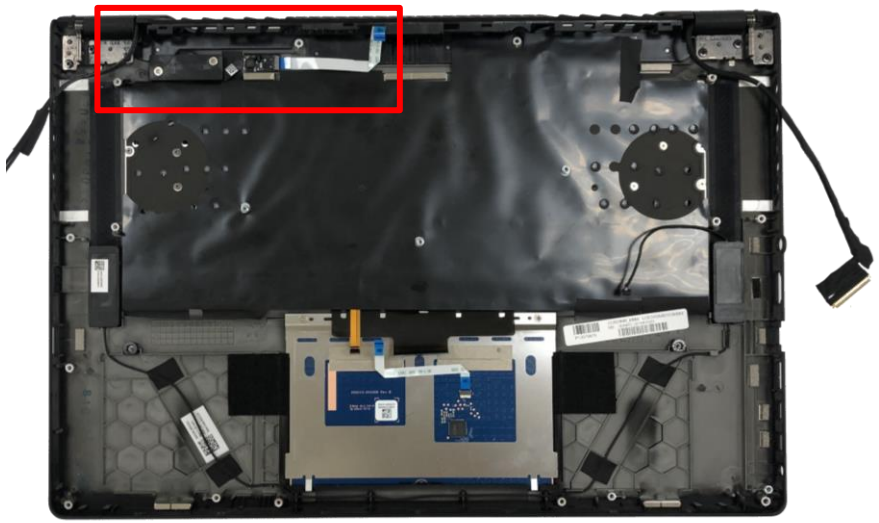
GA503QS MB TOP SPONGE 1

FRINGE PRINT MODULE (Power key)

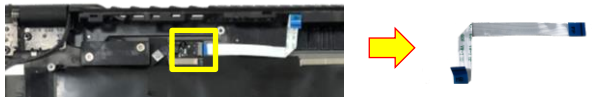
Disassembly Notice Please be sure to pull out adapter and disconnect the battery.

Step 1 : Disconnect FP connector and remove FFC.
Step 2 : Remove screws *2pcs and remove holder.
Step 3 : Remove FP Touch module.
Step 4 : Remove POWER KEY RUBBER.

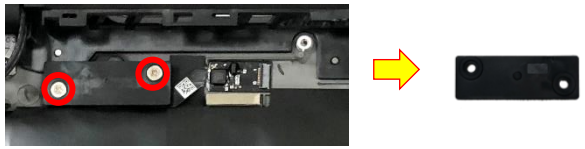
Screws	QTY	Spec	Torque (kgf-cm)
	2	M2*3L (K) B-ZN #1 NY	2.0±0.2



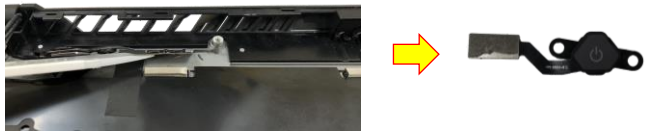
1 Disconnect



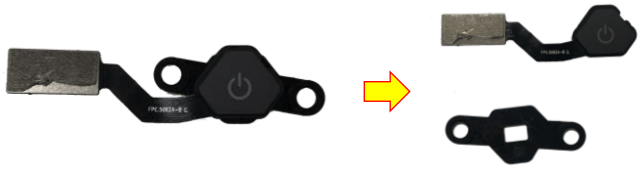
2 Unscrew and remove



3 Remove

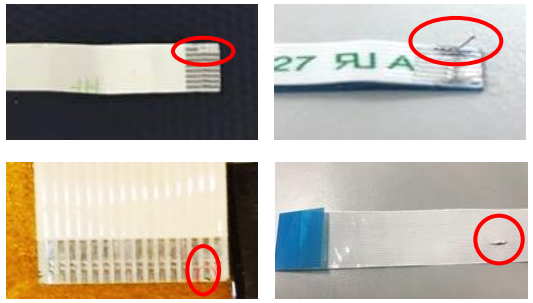


4 Remove



Assembly Notice

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



⚠ When assembly the FP TOUCH Module, Please paste POWER KEY RUBBER as below location.

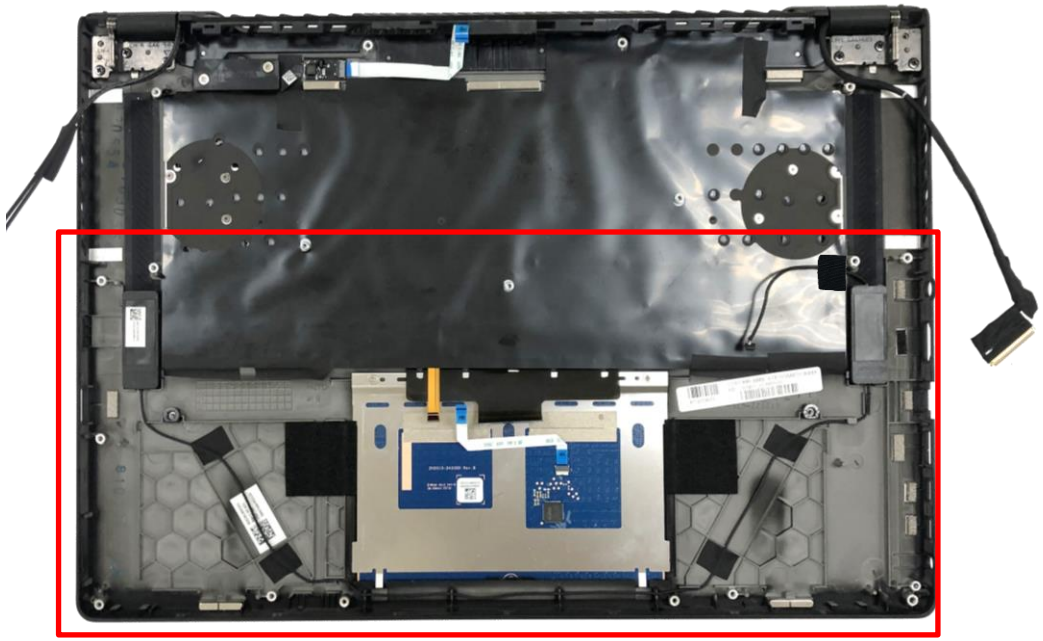
POWER KEY RUBBER + FP TOUCH MODULE

=

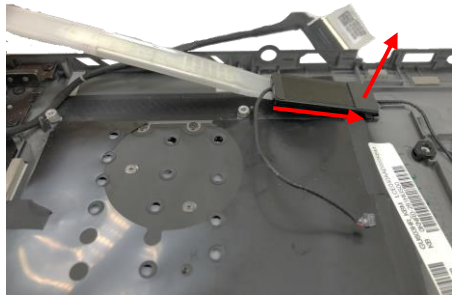
TWEETER SPEAKER

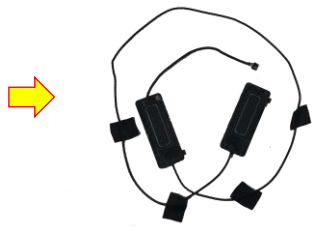
Disassembly Notice Please be sure to pull out adapter and disconnect the battery.

Step 1： Use plastic blade to separate tweeter speaker from TOP CASE.



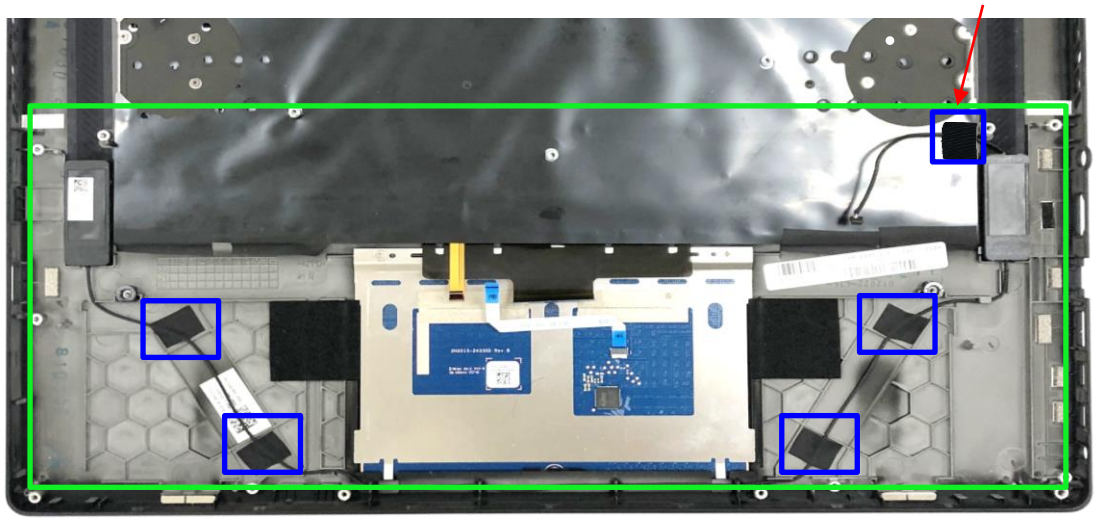
1 Separate





Assembly Notice

⚠ For TWEETER SPEAKER assembly, please follow below location to paste SPK CABLE TAPE. (Blue mark)



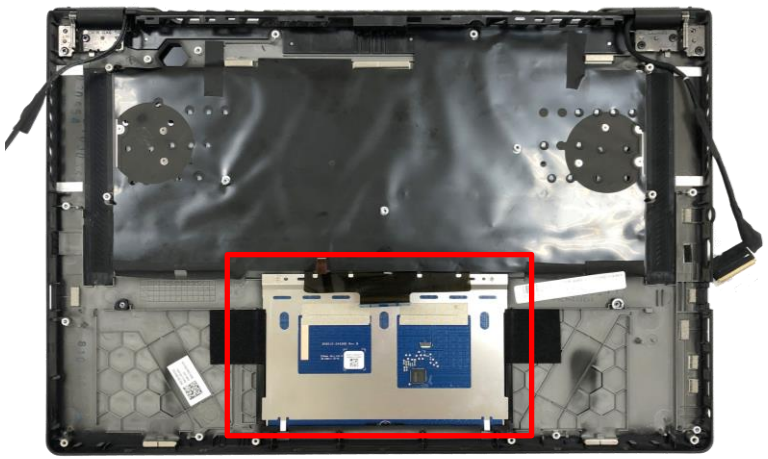
TOUCHPAD MODULE

Disassembly Notice

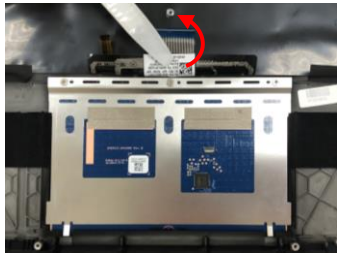
Please be sure to pull out adapter and disconnect the battery.

Step 1 : Flip up the KB FPC.
Step 2 : Remove screws *3pcs.
Step 3 : Remove TOUCHPAD module.

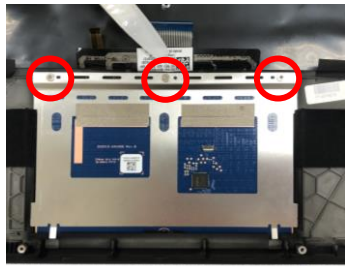
Screws	QTY	Spec	Torque (kgf-cm)
	3	M2*2.5L (4.5,0.8) (K) #1	2.0±0.2



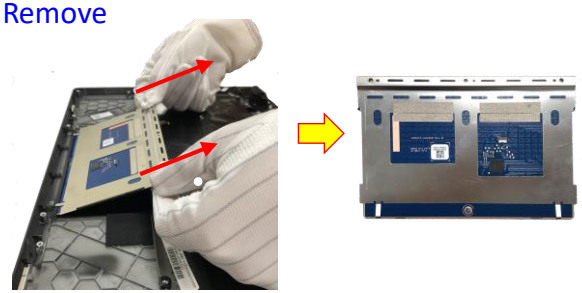
1 Flip up



2 Unscrew

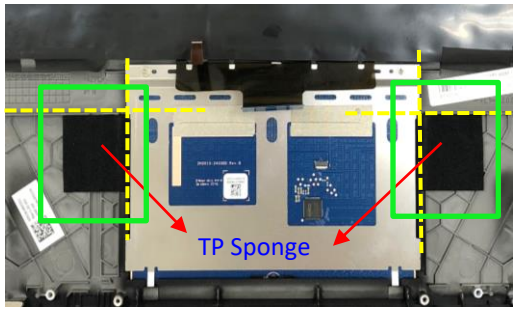


3 Remove

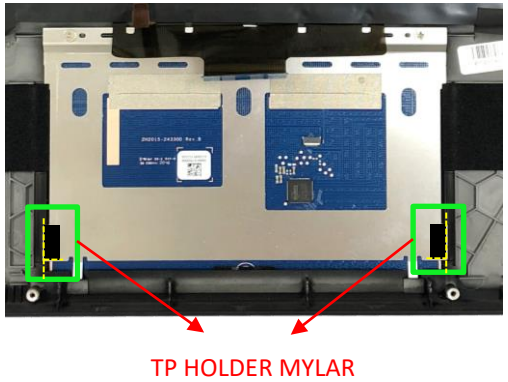


Assembly Notice

⚠ After TOUCHPAD assemble,
please follow below location to paste the TP Sponge.



⚠ After TOUCHPAD assembly,
please follow below location to paste the TP HOLDER MYLAR.



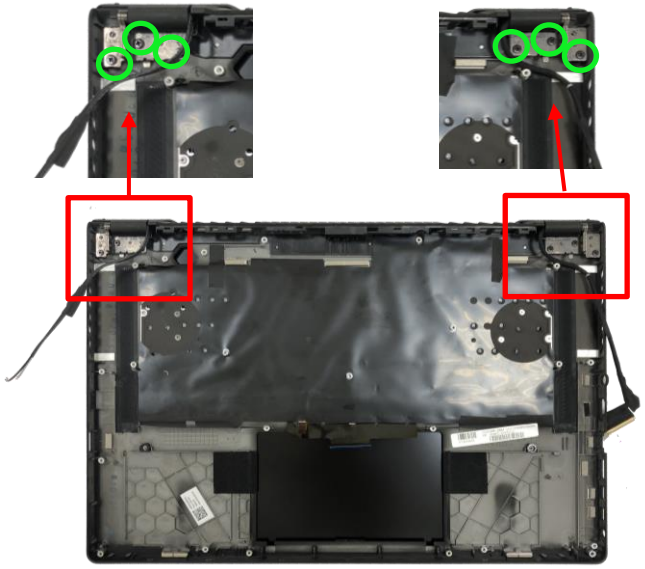
KEYBOARD MODULE

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

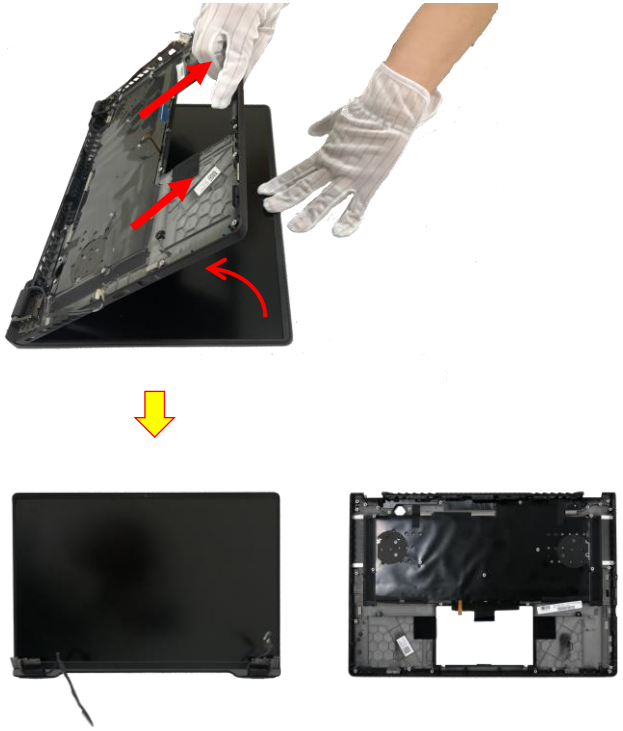
Step 1 : Remove hinge's screws *6pcs.
Step 2 : Flip up and remove KB module.

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

1 Unscrew



2 Flip up and remove



LCD BEZEL

Disassembly Notice

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

Step 1 : Remove LCD BEZEL.

1

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.)

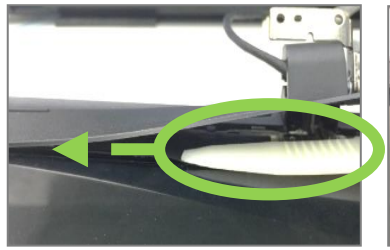
Step 1-1~1-3

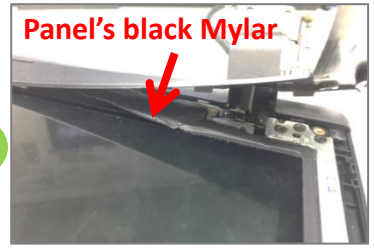
Thumb flipping the inner edge outward.

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.

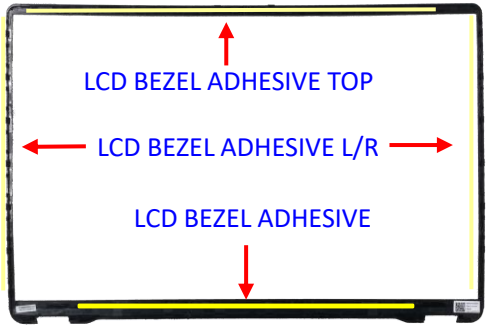
Please move blade slowly to separate the bezel away, and must press the black Mylar downward with panel parallel direction..

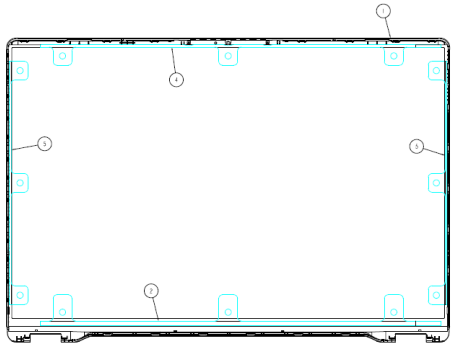




Assembly Notice

When reuse the LCD BEZEL:
Please paste new LCD BEZEL ADHESIVE before assembly BEZEL.
(New LCD BEZEL already contains LCD BEZEL ADHESIVE *1pcs, LCD BEZEL ADHESIVE TOP*1 pcs, LCD BEZEL ADHESIVE L/R*2pcs.)





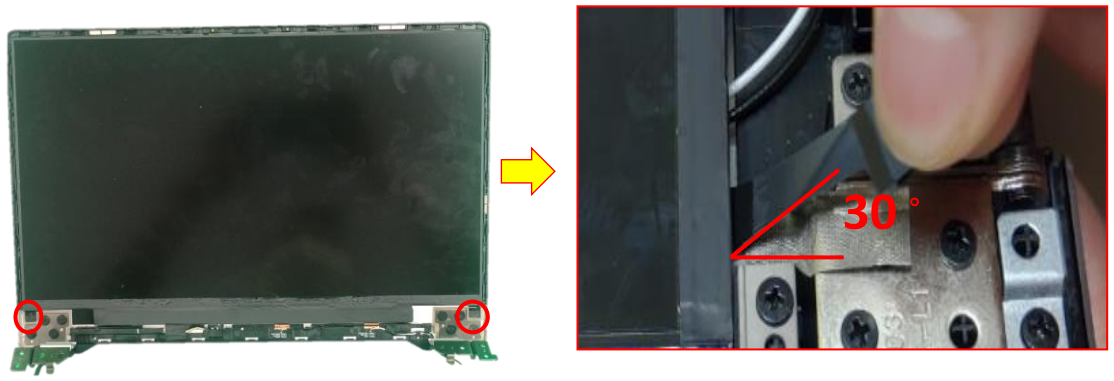
LCD PANEL

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

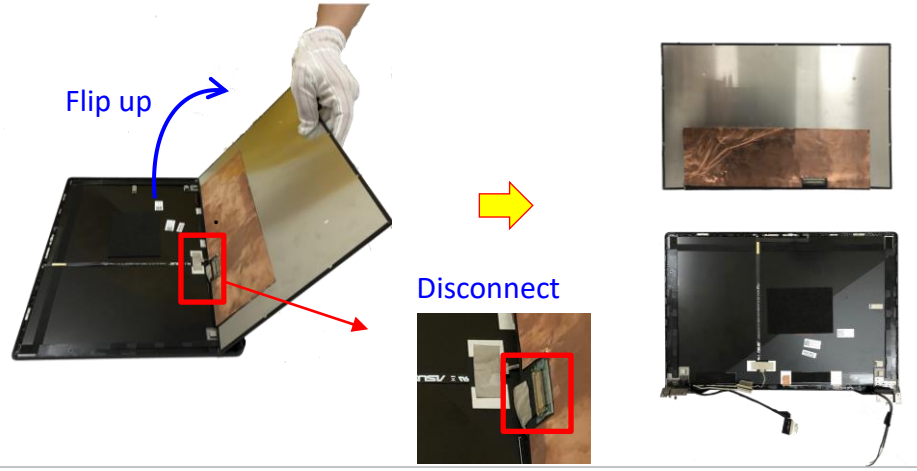
Step 1 : Pull out LCD adhesive *2pcs.
Step 2 : Flip up the panel and disconnect the EPD cable.
Step 3 : Remove screws *6pcs.
Step 4 : Remove screws*4pcs and remove hinge caps and hinge DECO rubbers.

Screws	QTY	Spec	Torque (kgf-cm)
	6	M2.5*2.3L(7.5,0.6)(K) #1	2.3±0.2 kgf-cm
	4	M1.4*2.5L(3.4,0.5) (K)#0	1.0±0.2 kgf-cm

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

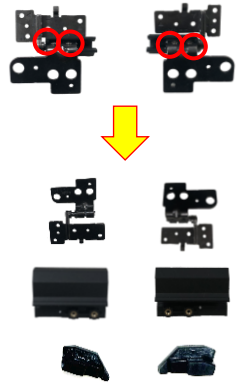


2 Flip up the panel, and disconnect the MIC cable and EDP cable.



3

4

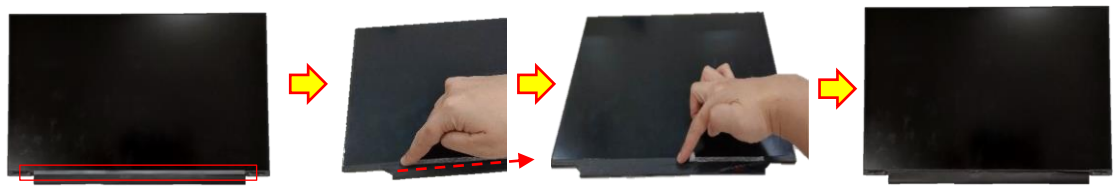


LCD PANEL

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

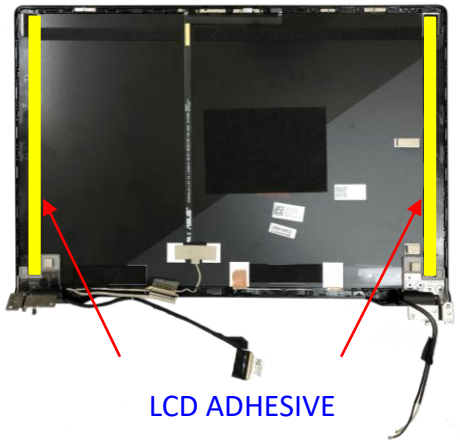
A **When reuse the LCD PANEL:**

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

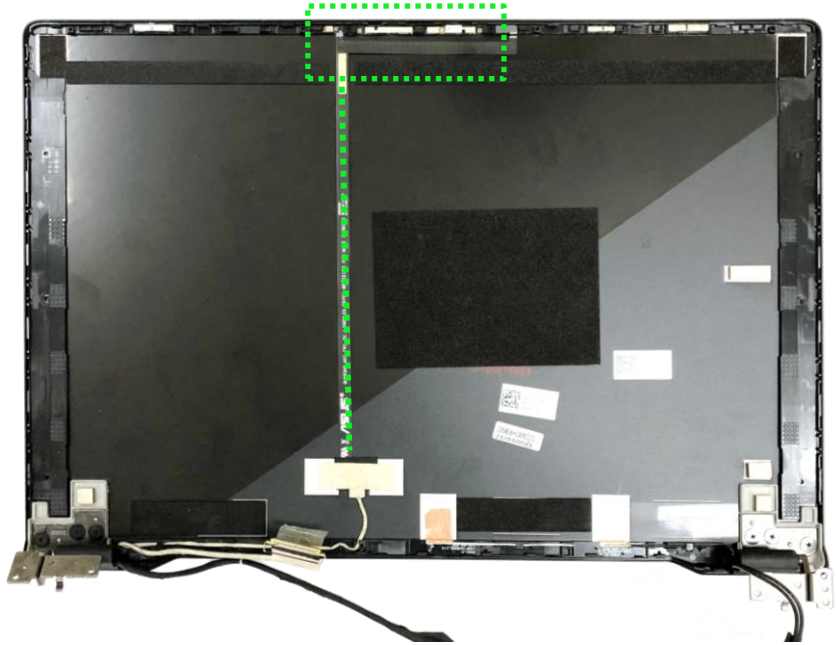


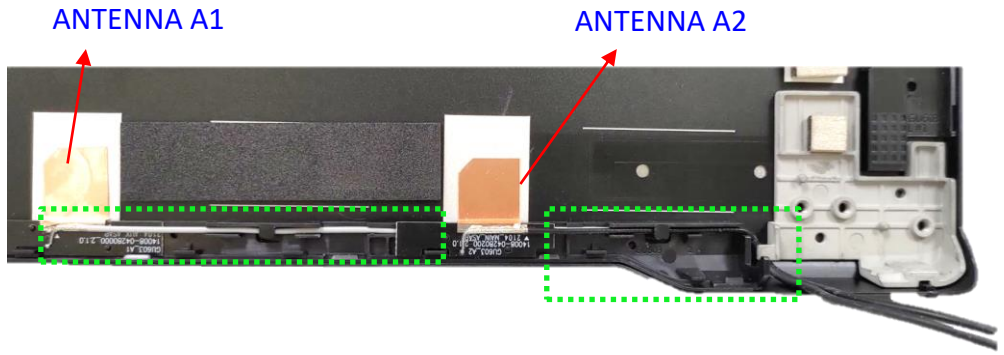
B **When reuse the LCD COVER:**

Please paste new PANEL ADHESIVE *2pcs.
(New LCD COVER already contains PANEL ADHESIVE *2pcs)



C **Please follow the green mark to tidy MIC FPC and Antenna.**





LCD PANEL

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

D When assembly the LCD PANEL: (The following is an operation example)

Step 1~2 : Paste NB LCD MYLAR *6pcs on LCD COVER.
(Positions are as below)

D-1 Upper Left Corner : Mylar *3pcs

Overlap LCD MYLAR *2pcs

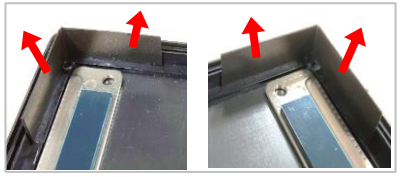
D-2 Upper Right Corner : Mylar *3pcs

Step 3 : Remove release paper of LCD Adhesive *2pcs.
Step 4 : Assembly and align the LCD to the upper side of the LCD Cover.
Step 5 : Remove Mylar *8pcs and complete the Panel assembly.

D-3 Remove

D-4 Align

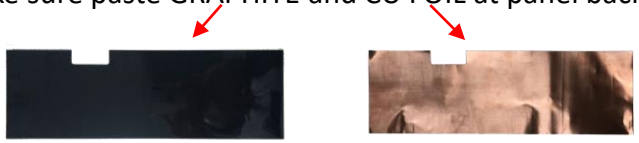
D-5 Pull out Mylar *8pcs.



⚠ Please stick LCD MYLAR on the plastic bag save after used, and repeatedly use until lose stickiness.

E When reassembly PANEL:

Please make sure paste GRAPHITE and CU FOIL at panel back side.



E-1 Please confirm the position to be pasted according to different panel.(Green line).

With Position line panel

Without Position line panel

E-2 Paste the GRAPHITE.

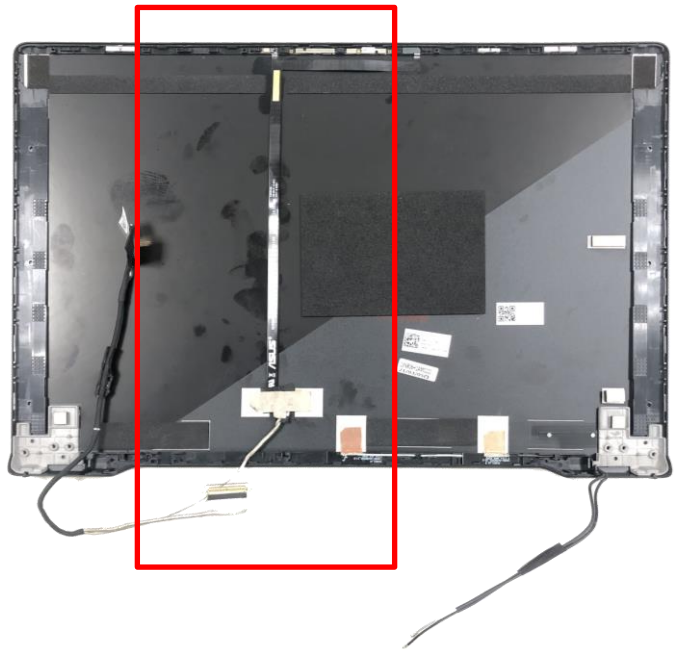
E-3 Paste the CU Foil.
(on the GRAPHITE)

LCD COVER MODULE

Disassembly Notice

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

Step 1 : Release GASKET and disconnect MIC FPC connector *2pcs.
Step 2 : Remove MIC FPC and EDP CABLE.
Step 3 : Remove CAMERA.
Step 4 : Remove MIC RUBBER *2pcs.



1 Release and disconnect

2 Remove

3 Remove

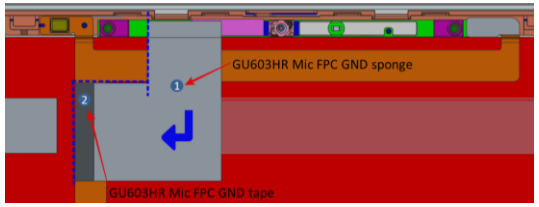
4 Remove

Assembly Notice

⚠ For EDP cable assembly, please follow the mark below to tidy cable.

On the KB module

On the A cover

⚠ After the Camera is assembled, please paste Mic FPC GND tape and Mic FPC GND sponge.

Step 1. Paste the tape.
Step 2. Paste the sponge.