

## Working Instructions

- mechanical -



*Xperia™ XA1 Ultra*  
*G3221, G3223*

*Xperia™ XA1 Ultra Dual SIM*  
*G3212, G3226*

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**For general information about mechanical repair related issues, refer to  
1220-1333: Generic Repair Manual - mechanical**

**Always firstly disconnect the Battery connector to cut off power supply when the Battery Cover Assy is disassembled.**

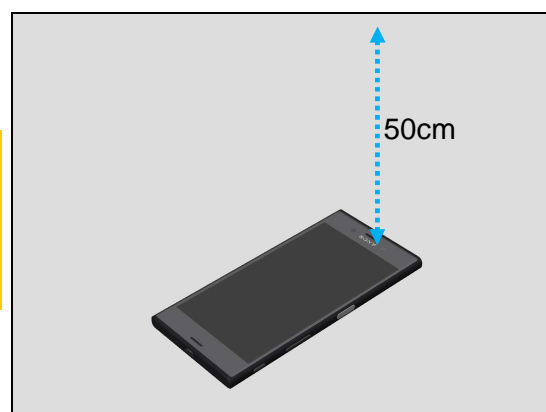
**Always finally connect the Battery connector before the Battery Cover Assy is reassembled.**

**If there are no special indications of 'G3212, G3221, G3223 or G3226', G3212, G3221, G3223 and G3226 share the same repair method as common sections, whose pictures are used with G3221.**

**1309-7255 CS-Everest (Repair -Mechanical- Tools and Equipment (include Repair Software), Info-Center number is RE4251) Calibration or Aged Battery Reset by Emma must be performed when following Reassembly or Replacement.**

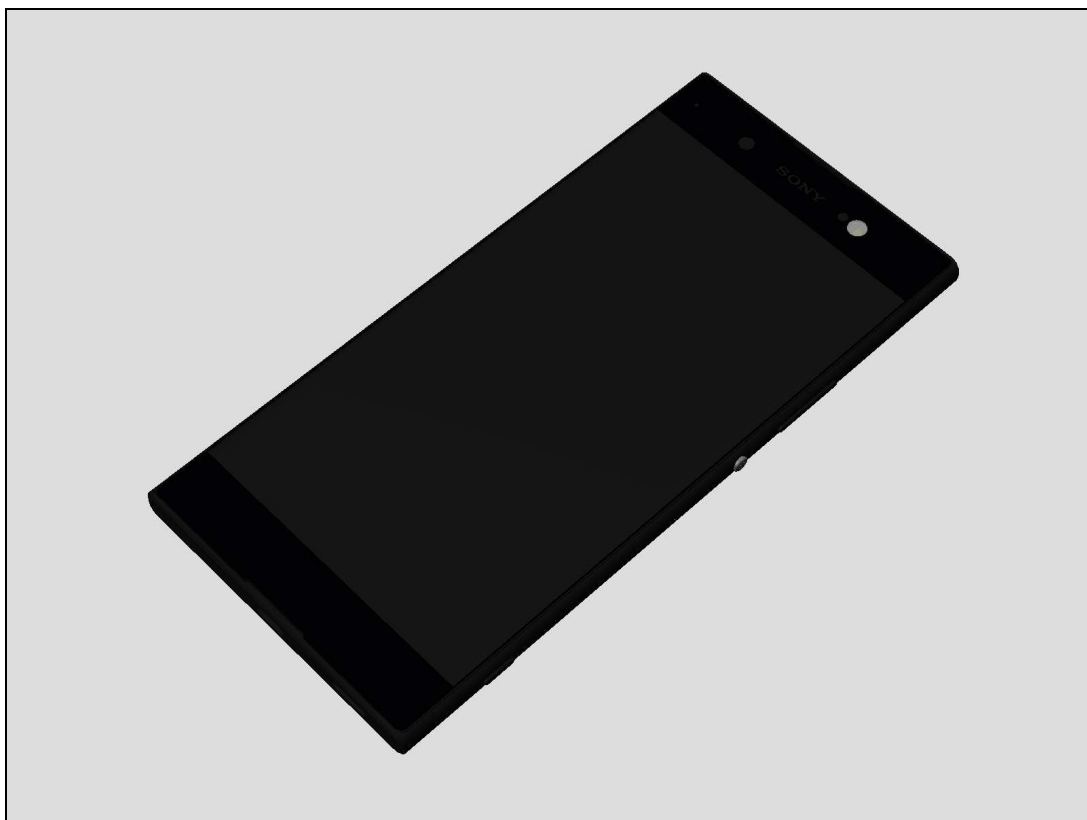
		CS-Everest Calibration			Emma
		Proximity Light Sensor G Sensor	Smart Amp	Color ID Flashing	Aged Battery Reset
Reassembly	Main PBA	O			
	Display Cover Assy	O			
	Rubber PL Sensor	O			
Replacement	Main PBA	O	O	O	
	Display Cover Assy	O			
	Rubber PL Sensor	O			
	Battery				O
	Main Antenna Speaker Box		O		

**Note! When performing proximity sensor calibration, put the phone unit on a stable place, facing up, and no any objects within 50cm.  
Remove the protection film if sensor window is covered by the protection film.**



## 1 Exterior Views

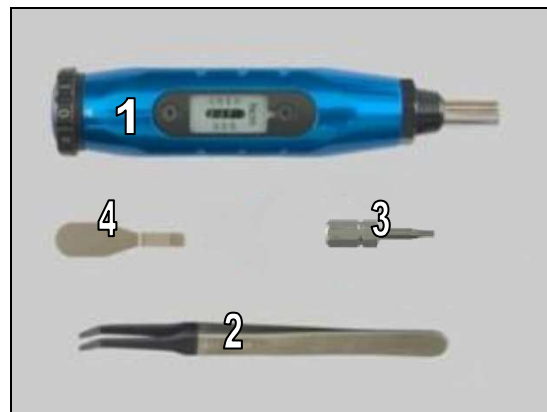
### 1.1 G3212,G3221,G3223,G3226



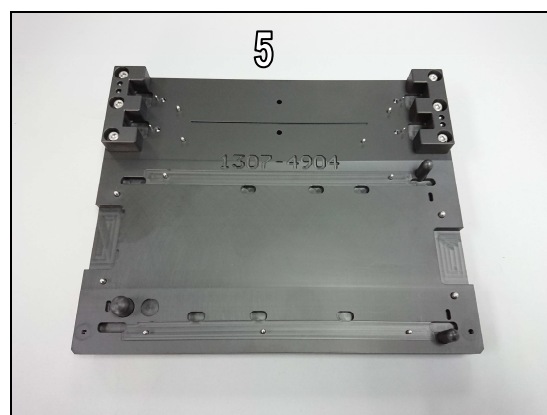
## 2 Tools

### SPECIAL TOOLS

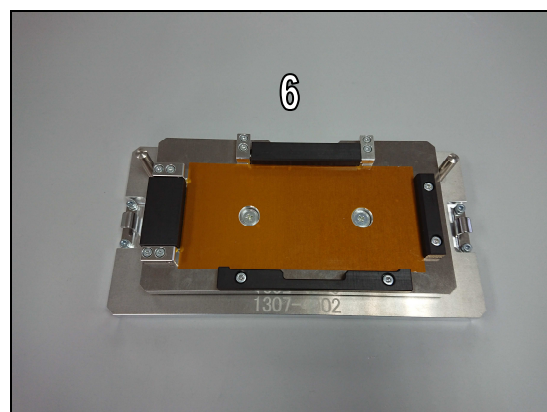
1. Torque Screwdriver 2-30Ncm (1233-2284)
2. Flex Film Assembly Tool (NTZ 112 521)
3. Bits T5 (NTZ 112 478)
4. Front Opening Tool (NTZ 112 302/2)



5. Panels Adhesive Fixture (1307-4904)



6. Rear Cover Press tool Bottom (1307-4902)



7. Rear Cover Press Top (1307-4903)

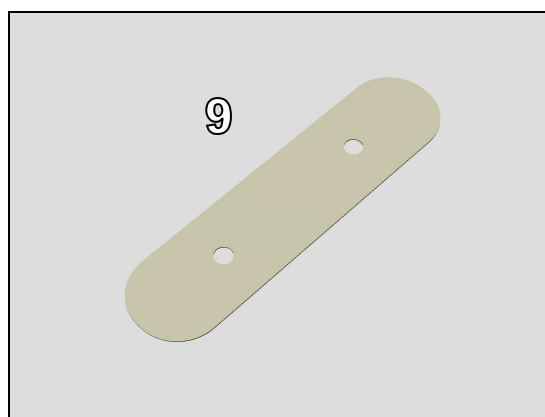


## Tools

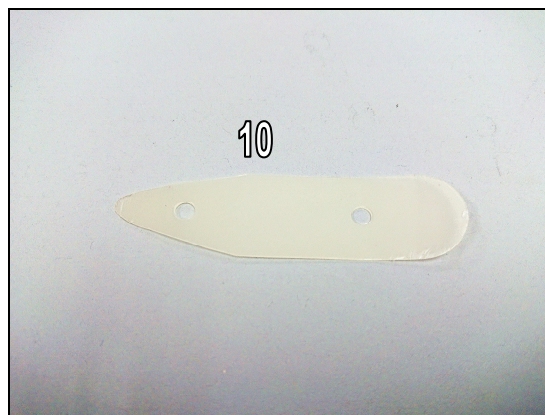
8. Press Clamp (1302-3698)



9. Flexible Disassembly tool (1284-7796)



10. Customized Flexible Disassembly tool (1284-7796)



11. Media Cable TyepC Cable (Black) (1302-1935)



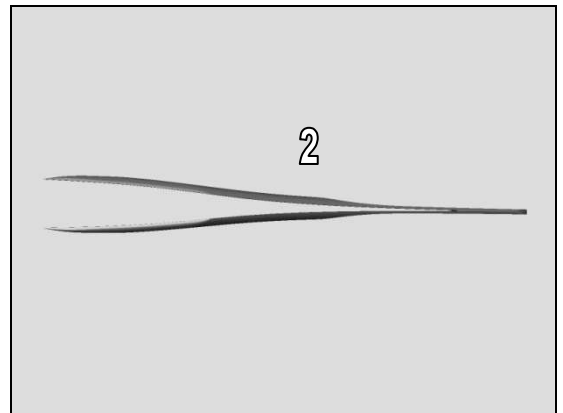
## Tools

### STANDARD TOOLS

1. Pointed Plastic Tweezers

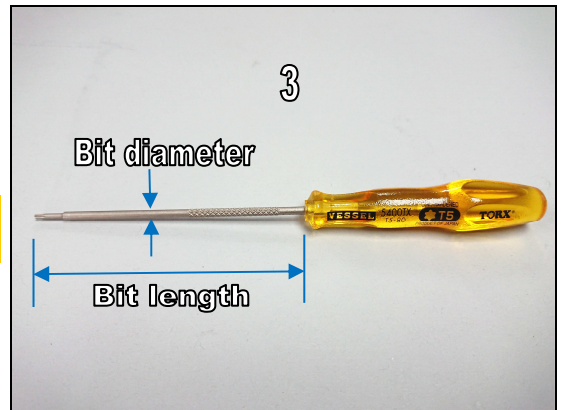


2. Blunt flat-tip Plastic Tweezers



3. T5 Screwdriver

**The bit length is no less than 75mm, and bit diameter is no thicker than 3mm.**



4. Suction cup



**For part no's on the tools above, refer to the 'Tools Catalogue/Matrix'!**



### 3 Mandatory Replacement Parts List

The Mandatory Replacement Parts List is embedded.  
Click the icon to open the file.



### G32 Mandatory Replacement List:



Targeted replacement parts are listed

[illegible]

Mandatory replacement parts for refurbishment.

Parts that is required to replace in addition to target replacement parts.

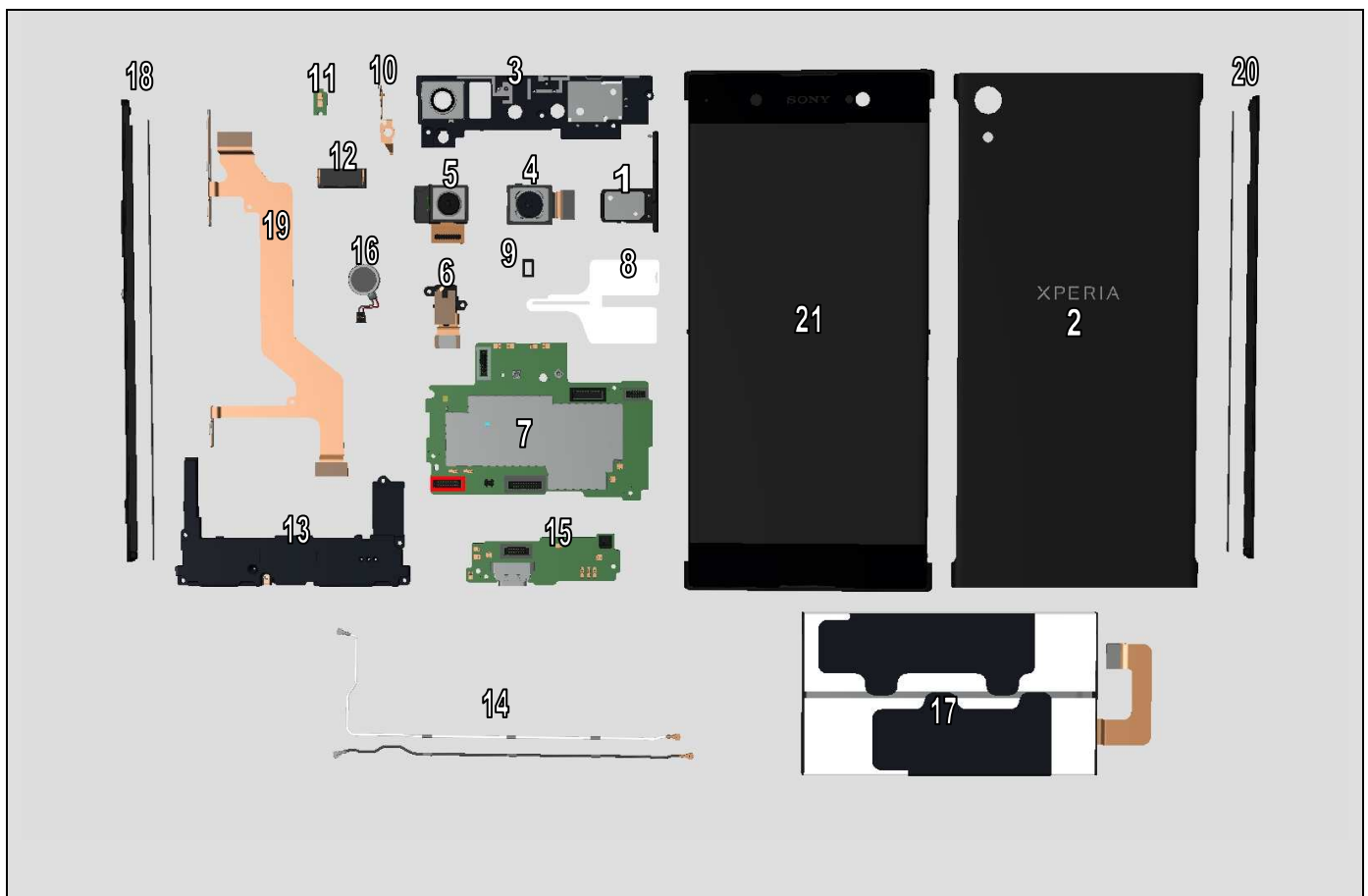
Number in the cells indicates parts  
require replacing for target part.



## 4 Disassembly

The G3212/G3221/G3223/G3226 disassembly is done in the following order:

1. Cap Tray
2. Battery Cover Assy
3. Sub Antenna
4. Main Camera
5. Front Camera
6. Audio Jack FPC Assy
7. Main PBA
8. CU Label Tray
9. Rubber PL Sensor
10. Bracket Main Camera
11. Front Flash LED PCB
12. Ear Speaker and Adhesive Ear Speaker
13. Main Antenna Speaker Box
14. RF Cable
15. Sub PBA Assy
16. Vibrator and Adhesive Vibrator
17. Battery, Film Mylar Battery Left and Film Mylar Battery Right
18. Side Panel Right and Keys
19. Sidekey FPC Assy
20. Side Panel Left
21. Display Cover Assy



## Disassembly

Disassembly Quick Reference Chart is embedded.

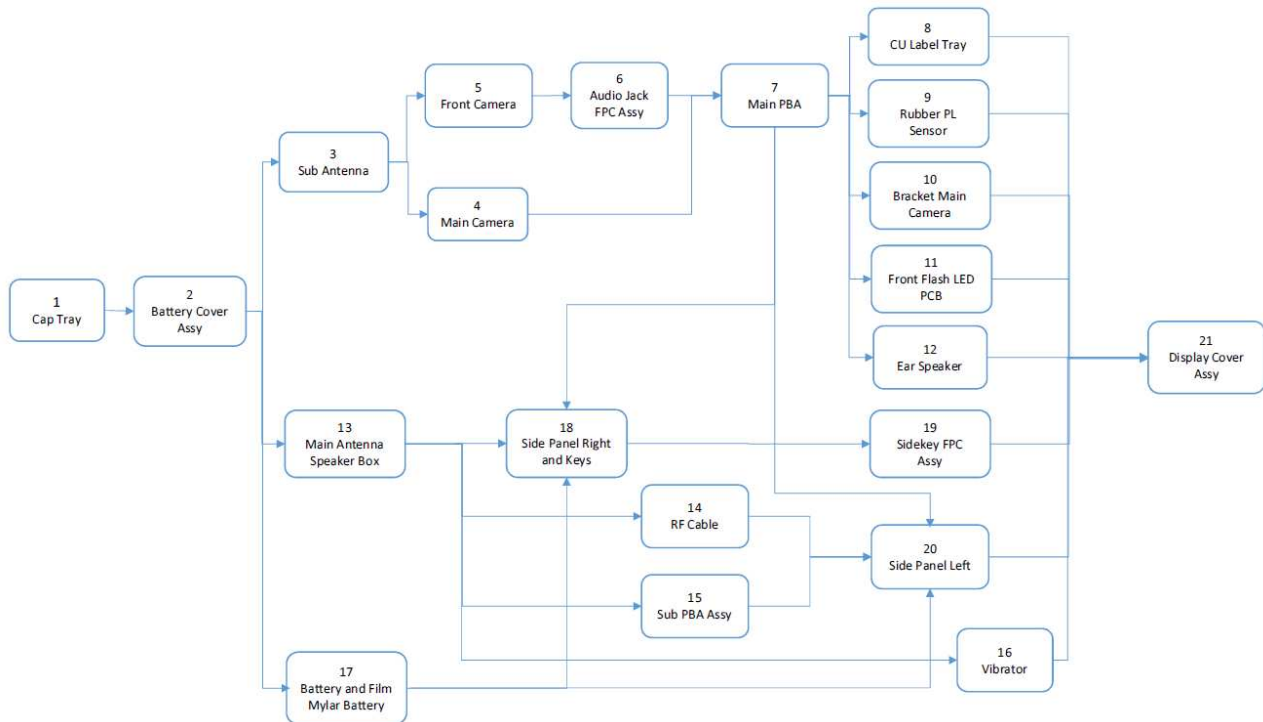


Disassembly  
Procedure.pdf



Required disassembly procedures of specific part removing can be identified by Disassembly Quick Reference Chart.

The sequence numbers of the target parts in the chart correspond to the disassembly chapter numbers, please refer to corresponding chapter content for the parts not mentioned in this chart.



Replacement Target	Disassembly Procedure
1 Cap Tray	1
2 Battery Cover Assy	1, 2
3 Sub Antenna	1, 2, 3
4 Main Camera	1, 2, 3, 4
5 Front Camera	1, 2, 3, 5
6 Audio Jack FPC Assy	1, 2, 3, 5, 6
7 Main PBA	1, 2, 3, 4, 5, 6, 7
8 CU Label Tray	1, 2, 3, 4, 5, 6, 7, 8
9 Rubber PL Sensor	1, 2, 3, 4, 5, 6, 7, 9
10 Bracket Main Camera	1, 2, 3, 4, 5, 6, 7, 10
11 Front Flash LED PCB	1, 2, 3, 4, 5, 6, 7, 11
12 Ear Speaker	1, 2, 3, 4, 5, 6, 7, 12
13 Main Antenna Speaker Box	1, 2, 13
14 RF Cable	1, 2, 13, 14
15 Sub PBA Assy	1, 2, 13, 15
16 Vibrator	1, 2, 13, 16
17 Battery and Film Mylar Battery	1, 2, 17
18 Side Panel Right and Keys	1, 2, 3, 4, 5, 6, 7, 13, 17, 18
19 Sidekey FPC Assy	1, 2, 3, 4, 5, 6, 7, 13, 17, 18, 19
20 Side Panel Left	1, 2, 3, 4, 5, 6, 7, 13, 14, 15, 17, 20
21 Display Cover Assy	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21

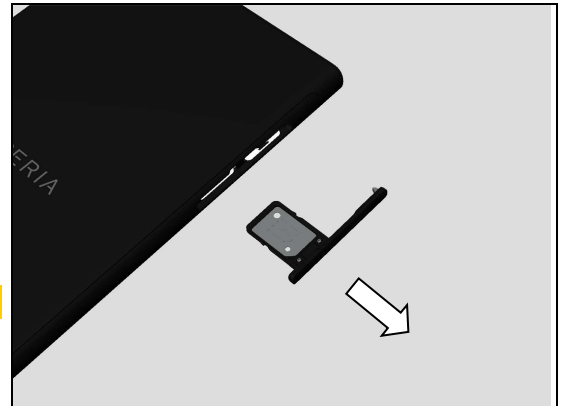
## Disassembly

### 4.1 Cap Tray

#### 4.1.1 Cap Tray Single (G3221,G3223)

Remove the Cap Tray Single with fingers.

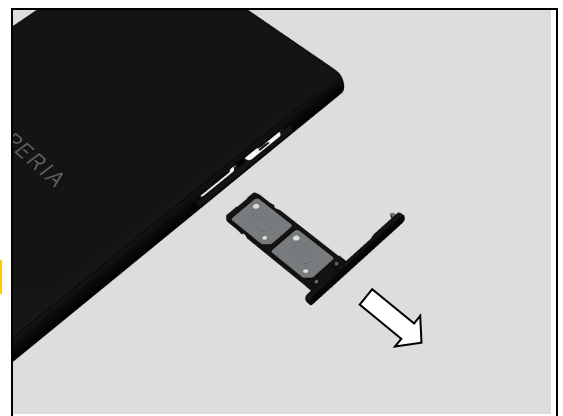
***This is only for G3221,G3223!***



#### 4.1.2 Cap Tray Dual (G3212,G3226)

Remove the Cap Tray Dual with fingers.

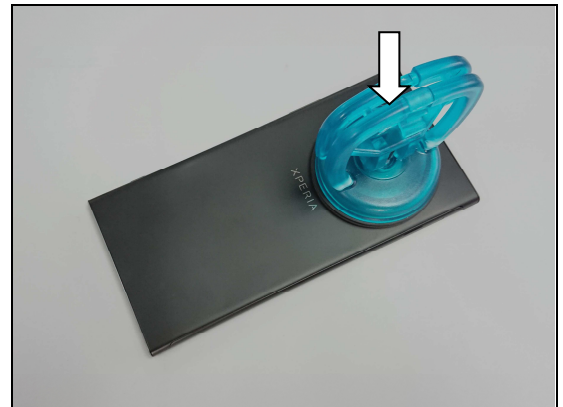
***This is only for G3212,G3226!***



### 4.2 Battery Cover Assy

#### 4.2.1 Battery Cover Assy

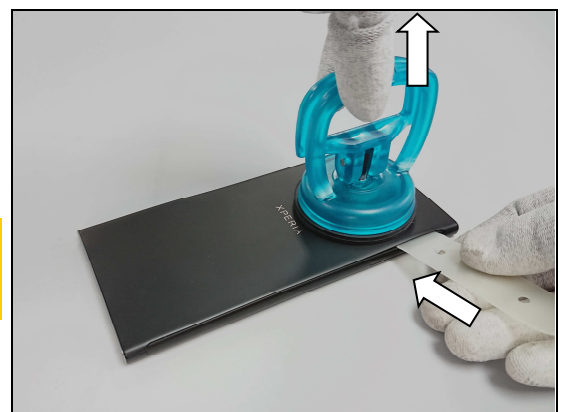
Apply the Suction Cup onto **TOP RIGHT** area of the Battery Cover Assy.



Pull the Suction Cup to get space for inserting the Flexible Disassembly tool.

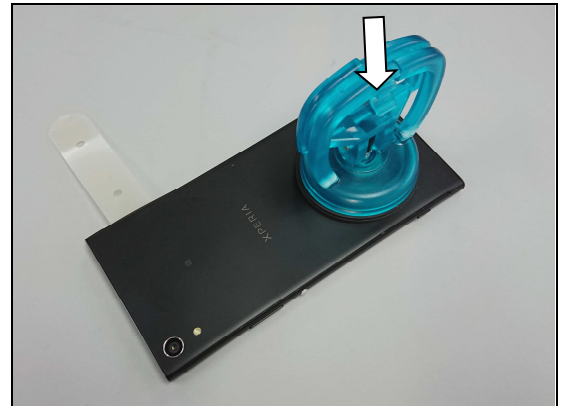
Then insert Flexible Disassembly tool.

***Do not use Guitar Pick! Because the Flexible Disassembly tool is much thinner than the Guitar Pick and easier for inserting.***

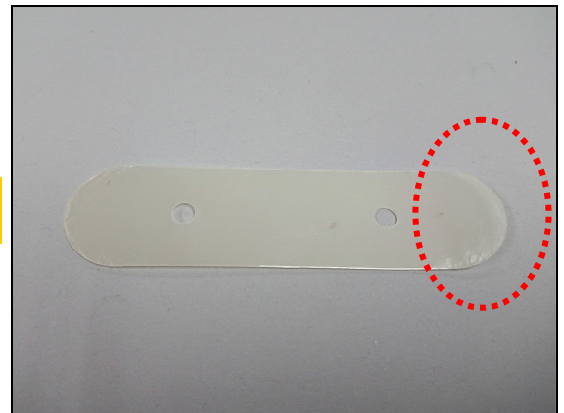


## Disassembly

Keep the Flexible Disassembly tool inserted at top right side.  
Then apply the Suction Cup onto **BOTTOM LEFT** area of the Battery Cover Assy.



**Sharpen one end of Flexible Disassembly tool before inserting.**

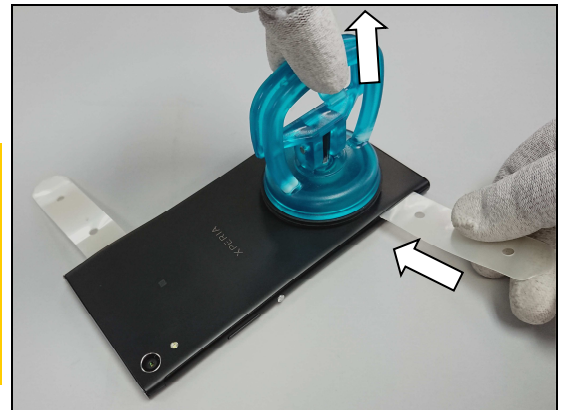


Pull the Suction Cup to get space for inserting the Flexible Disassembly tool.

Then insert Flexible Disassembly tool.

**Use the sharpened end of Flexible Disassembly tool to insert since this side is tighter than TOP RIGHT side. Heating will be helpful before getting space for inserting.**

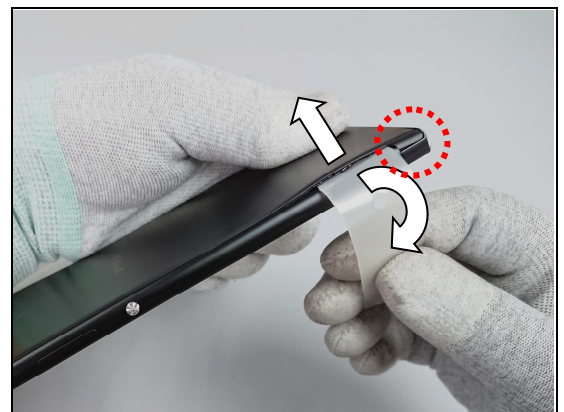
**Do not use Guitar Pick! Because the Flexible Disassembly tool is much thinner than the Guitar Pick and easier for inserting.**



Slide the Flexible Disassembly tool until bottom left corner stop it.

Then bend the Flexible Disassembly tool to push up the Battery Cover Assy as shown in picture.

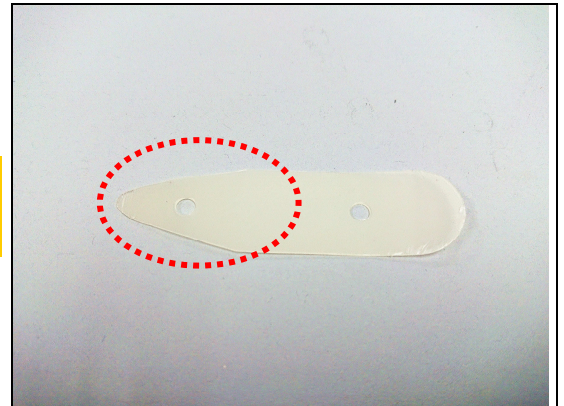
And then a gap is made at the bottom left corner between Battery Cover Assy and front cover.



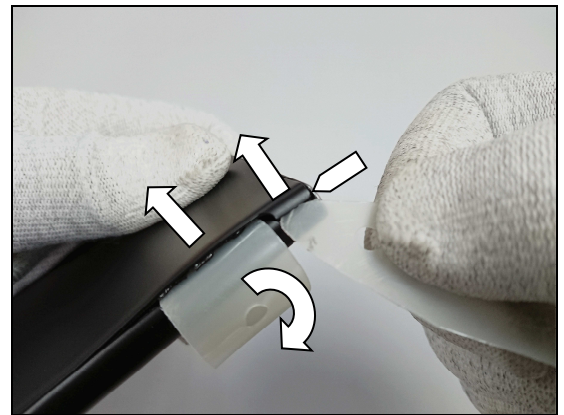


## Disassembly

**Prepare the Customized Flexible Disassembly tool: cut and then sharpen one end of Flexible Disassembly tool as shown in picture.**



Keep the Flexible Disassembly tool bending to push the Battery Cover Assy.  
Insert the Customized Flexible Disassembly tool into the gap at the bottom left corner and then unsnap the corner hook.



Slide the Flexible Disassembly tool to cut the Adhesive Battery Cover Left, and then stop here to unsnap this hook under the Battery Cover Assy.

**Insert the Flexible Disassembly tool just to cut the adhesive and unsnap the hook. Do not insert Flexible Disassembly tool too much deep!**



Slide the Flexible Disassembly tool to cut the Adhesive Battery Cover Left, and then stop here to unsnap this hook under the Battery Cover Assy.

**Insert the Flexible Disassembly tool just to cut the adhesive and unsnap the hook. Do not insert Flexible Disassembly tool too much deep!**



## Disassembly

Slide the Flexible Disassembly tool to cut the Adhesive Battery Cover Left, and then stop here to unsnap this hook under the Battery Cover Assy.

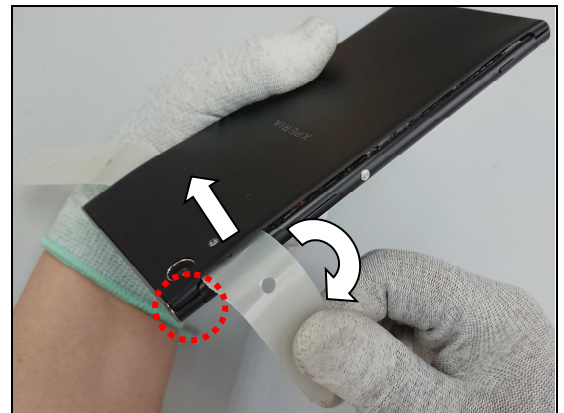
**Insert the Flexible Disassembly tool just to cut the adhesive and unsnap the hook. Do not insert Flexible Disassembly tool too much deep!**



Slide the Flexible Disassembly tool until top left corner stop it.

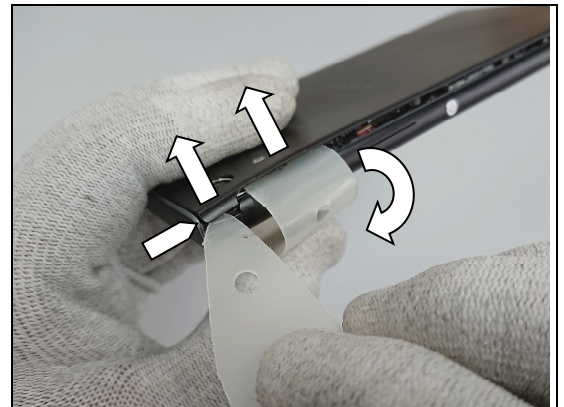
Then bend the Flexible Disassembly tool to push up the Battery Cover Assy as shown in picture.

And then a gap is made at the top left corner between Battery Cover Assy and front cover.



Keep the Flexible Disassembly tool bending to push the Battery Cover Assy.

Insert the Customized Flexible Disassembly tool into the gap at the top left corner and then unsnap the corner hook.



Slide the Flexible Disassembly tool until top right corner stop it.

Then bend the Flexible Disassembly tool to push up the Battery Cover Assy as shown in picture.

And then a gap is made at the top right corner between Battery Cover Assy and front cover.

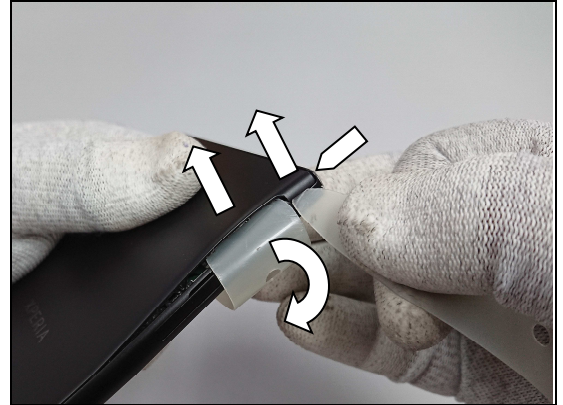




## Disassembly

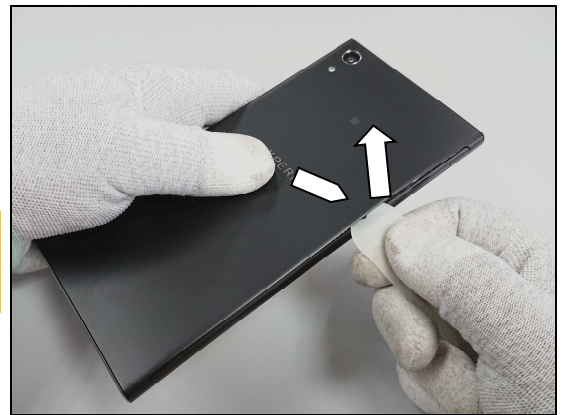
Keep the Flexible Disassembly tool bending to push the Battery Cover Assy.

Insert the Customized Flexible Disassembly tool into the gap at the top right corner and then unsnap the corner hook.



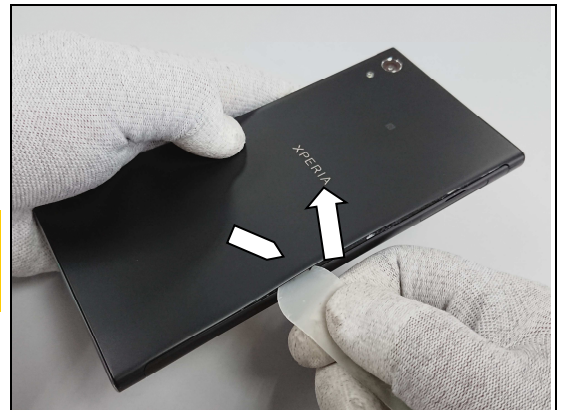
Slide the Flexible Disassembly tool to cut the Adhesive Battery Cover Right, and then stop here to unsnap this hook under the Battery Cover Assy.

***Insert the Flexible Disassembly tool just to cut the adhesive and unsnap the hook. Do not insert Flexible Disassembly tool too much deep!***



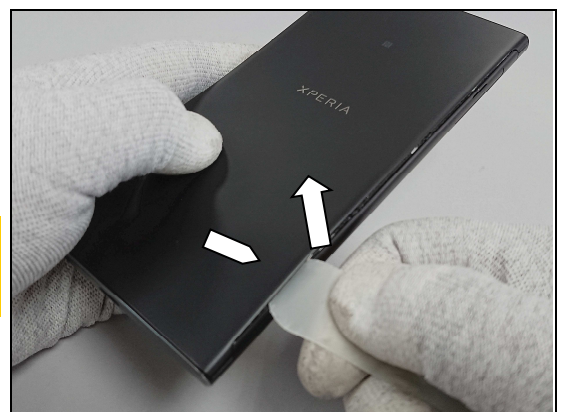
Slide the Flexible Disassembly tool to cut the Adhesive Battery Cover Right, and then stop here to unsnap this hook under the Battery Cover Assy.

***Insert the Flexible Disassembly tool just to cut the adhesive and unsnap the hook. Do not insert Flexible Disassembly tool too much deep!***



Slide the Flexible Disassembly tool to cut the Adhesive Battery Cover Right, and then stop here to unsnap this hook under the Battery Cover Assy.

***Insert the Flexible Disassembly tool just to cut the adhesive and unsnap the hook. Do not insert Flexible Disassembly tool too much deep!***

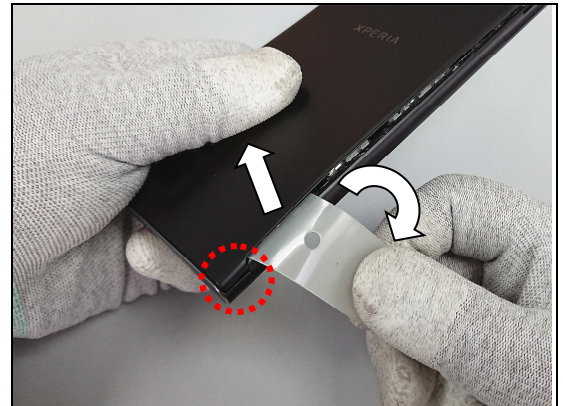


## Disassembly

Slide the Flexible Disassembly tool until bottom right corner stop it.

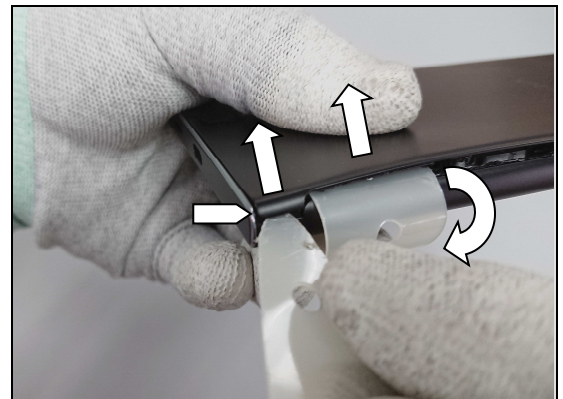
Then bend the Flexible Disassembly tool to push up the Battery Cover Assy as shown in picture.

And then a gap is made at the bottom right corner between Battery Cover Assy and front cover.



Keep the Flexible Disassembly tool bending to push the Battery Cover Assy.

Insert the Customized Flexible Disassembly tool into the gap at the bottom right corner and then unsnap the corner hook.



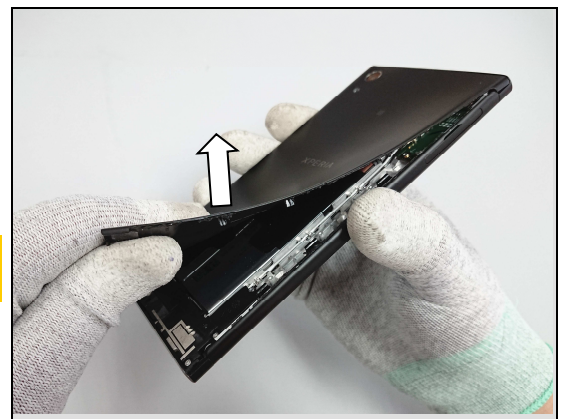
Hold the bottom right area of the Battery Cover Assy by fingers to slowly detach the Adhesive Battery Cover Bottom area of the Battery Cover Assy.

**Note! During this action the Battery Cover Assy may deform to some extent, if not damaged it can be reused.**



Hold the bottom right area of the Battery Cover Assy by fingers to slowly detach the Adhesive Battery Cover Bottom area of the Battery Cover Assy.

**Note! During this action the Battery Cover Assy may deform to some extent, if not damaged it can be reused.**



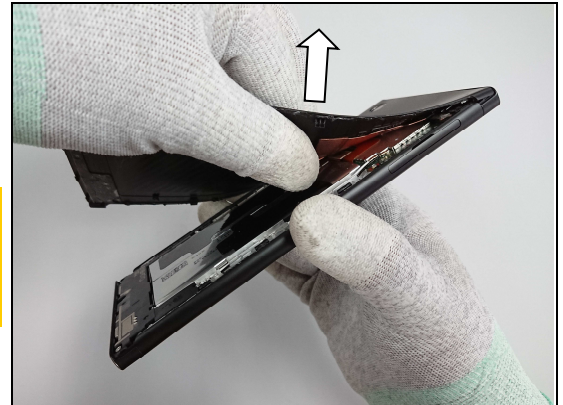


## Disassembly

Hold the middle right area of the Battery Cover Assy by fingers to slowly detach the Adhesive NFC area of the Battery Cover Assy.

**Detach the Adhesive NFC area from right side to left side!**

**Note! During this action the Battery Cover Assy may deform to some extent, if not damaged it can be reused.**

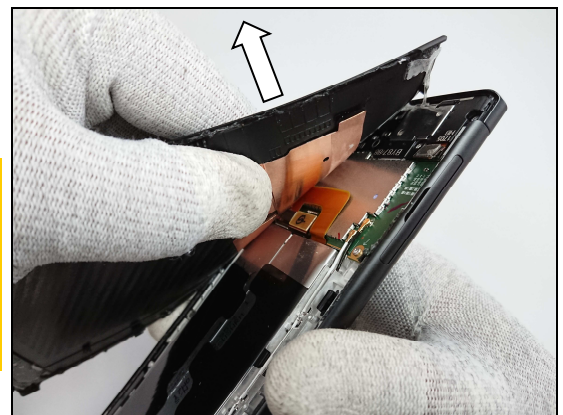


Hold the middle area of the Battery Cover Assy by fingers to slowly detach the Adhesive NFC and Adhesive Battery Cover Top area of the Battery Cover Assy.

**Be careful! When detaching the thumb should hold Copper Foil Battery Cover.**

**Detach the Adhesive NFC area and Adhesive Battery Cover Top area from right side to left side!**

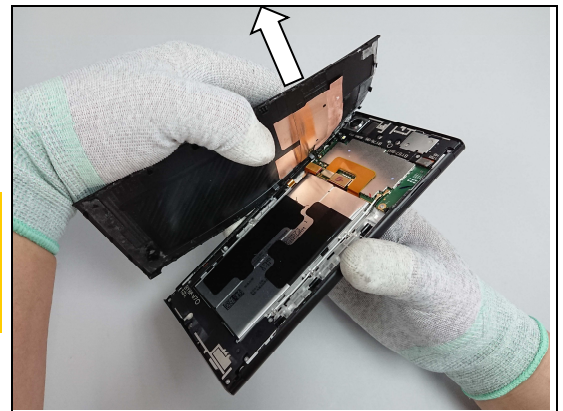
**Note! During this action the Battery Cover Assy may deform to some extent, if not damaged it can be reused.**



Hold the middle area of the Battery Cover Assy by fingers to slowly detach the Adhesive Battery Cover Top area of the Battery Cover Assy.

**Detach the Adhesive Battery Cover Top area from right side to left side!**

**Note! During this action the Battery Cover Assy may deform to some extent, if not damaged it can be reused.**

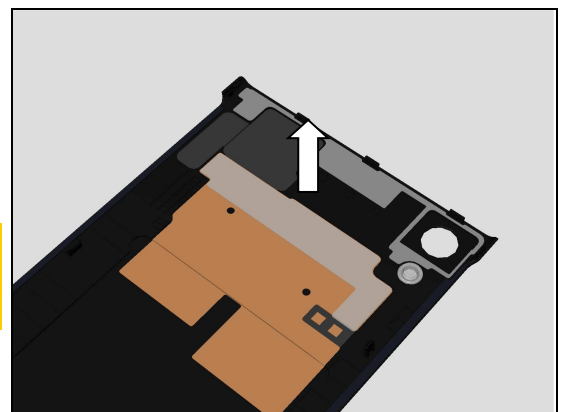


### 4.2.2 Adhesive NFC

Detach the Adhesive NFC.

**Scrap! Not to be reuse!**

**Make sure all remaining adhesive residue have been removed!**



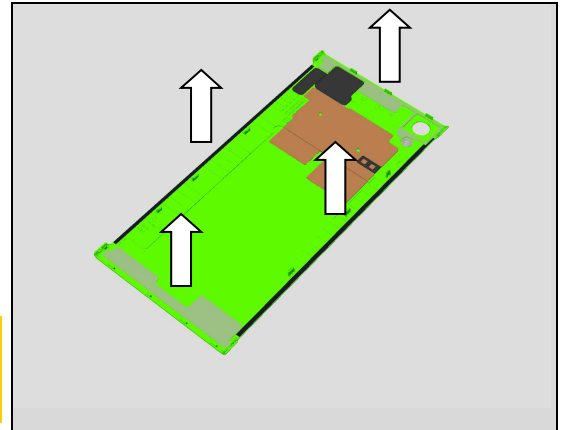
## Disassembly

### 4.2.3 Adhesive Battery Cover Top, Adhesive Battery Cover Bottom, Adhesive Battery Cover Left and Adhesive Battery Cover Right

Detach the Adhesive Battery Cover Top, Adhesive Battery Cover Bottom, Adhesive Battery Cover Left and Adhesive Battery Cover Right.

**Scrap! Not to be reuse!**

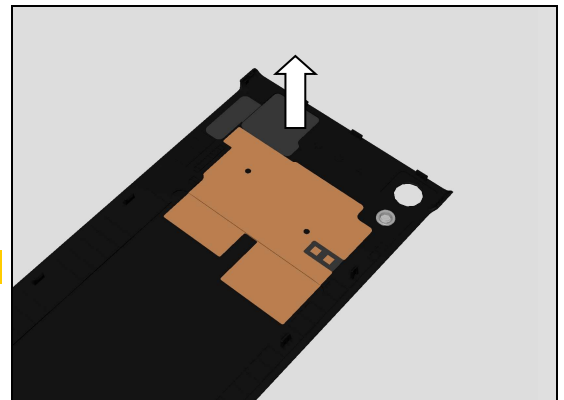
**Make sure all remaining adhesive residue have been removed!**



### 4.2.4 Copper Foil Battery Cover

Detach the Copper Foil Battery Cover.

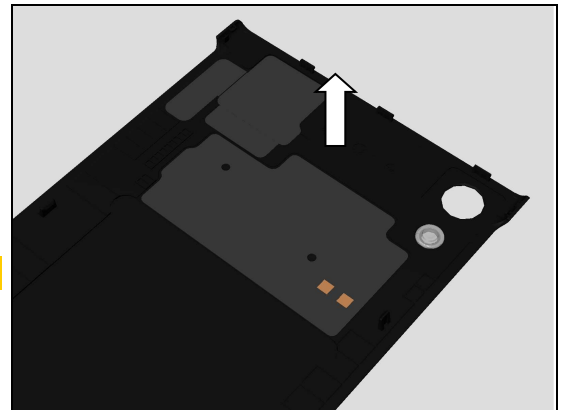
**Scrap! Not to be reuse!**



### 4.2.5 NFC Antenna

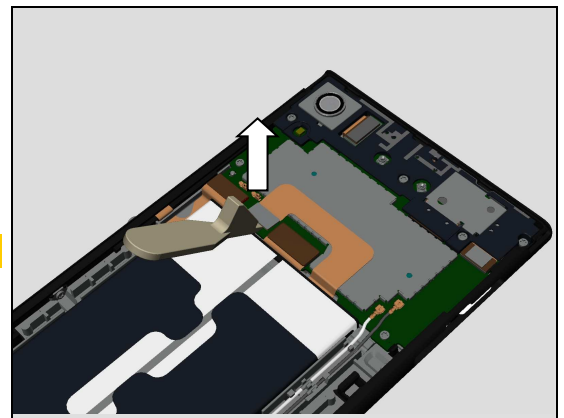
Detach the NFC Antenna.

**Scrap! Not to be reuse!**



Disconnect the Battery connector by using the Front Opening Tool.

**Do not damage components on the Main PBA!**



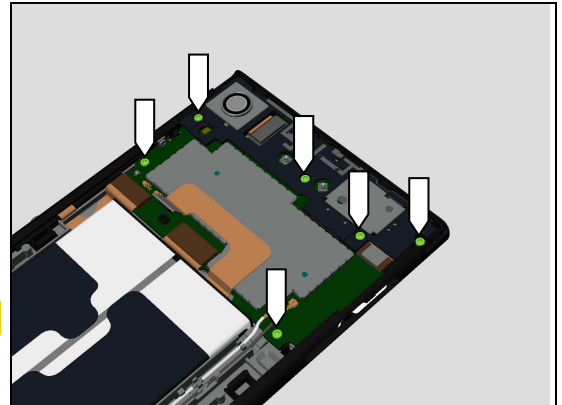
## Disassembly

### 4.3 Sub Antenna

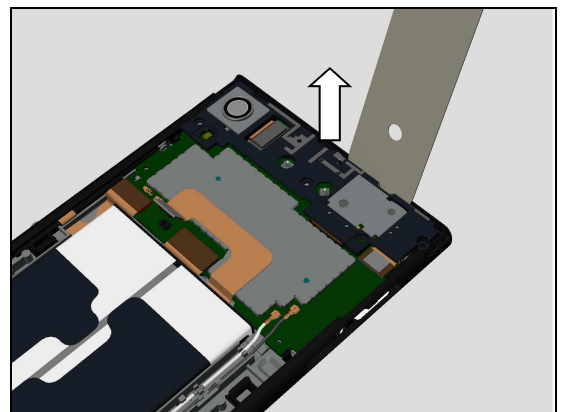
#### 4.3.1 Sub Antenna

Remove the six Screw TORX M1.2 L2.5 Silver by using a screwdriver with Bits T5.

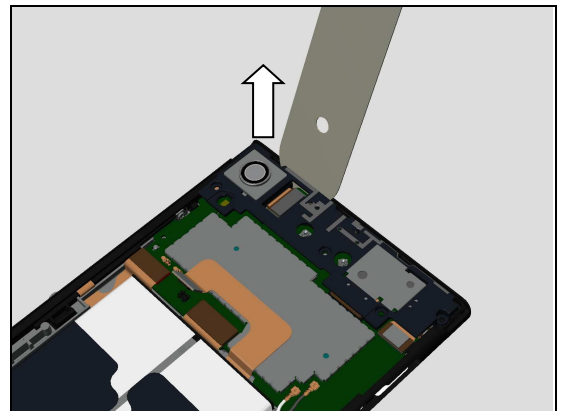
**Scrap! Not to be reused!**



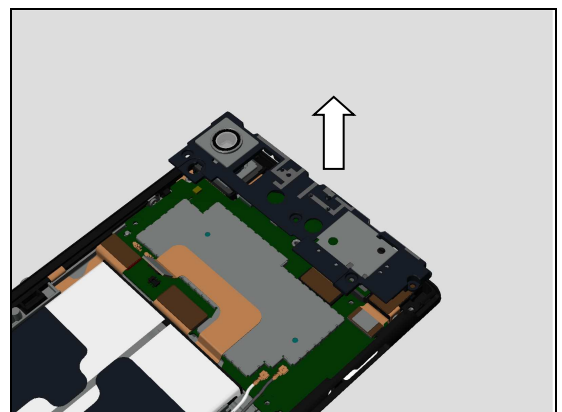
Release the Sub Antenna and Main Camera Lens Assy firstly from this position by using Flexible Disassembly tool as shown in picture.



Then release the Sub Antenna and Main Camera Lens Assy from this position by using Flexible Disassembly tool as shown in picture.



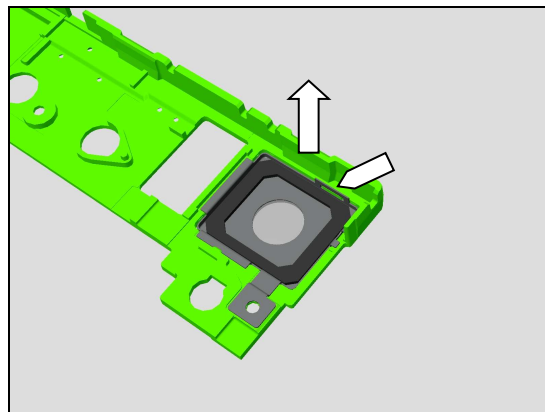
Remove the Sub Antenna and Main Camera Lens Assy.



## Disassembly

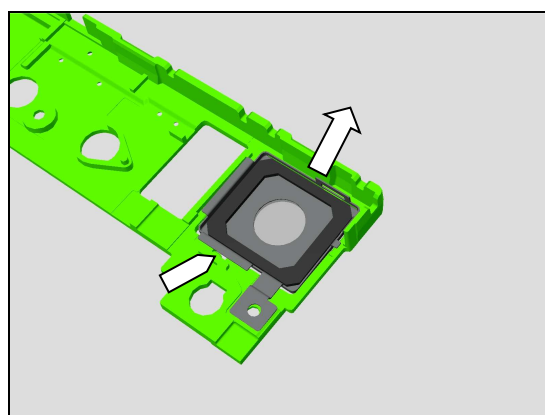
### 4.3.2 Main Camera Lens Assy

Deform the Sub Antenna a little to release this hook by fingers.

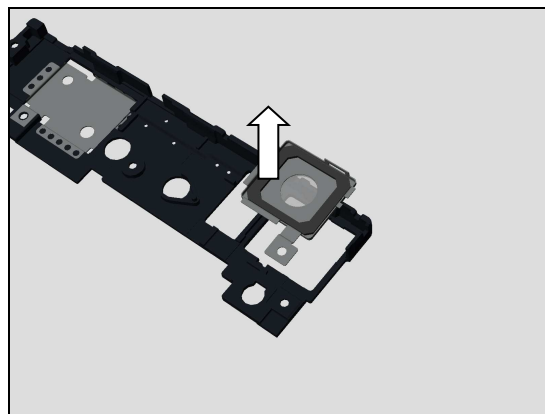


Release the Main Camera Lens Assy from this small rib by fingers as shown in picture.

**Be careful! Do not damage the small rib.**



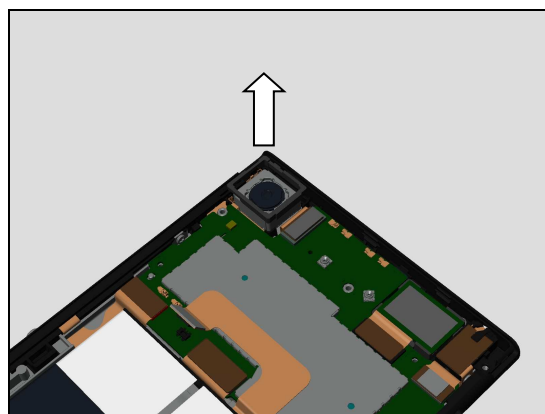
Remove the Main Camera Lens Assy.



## 4.4 Main Camera

### 4.4.1 Rubber Main Camera

Remove the Rubber Main Camera.

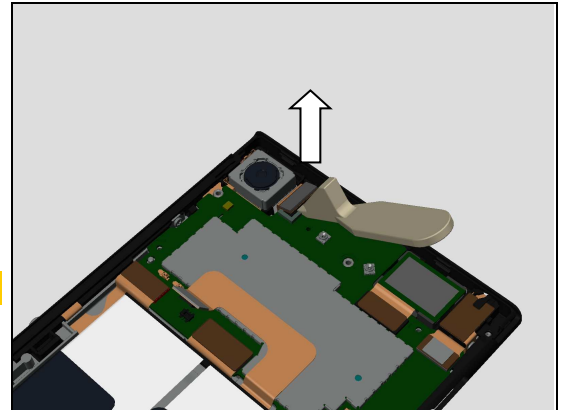


## Disassembly

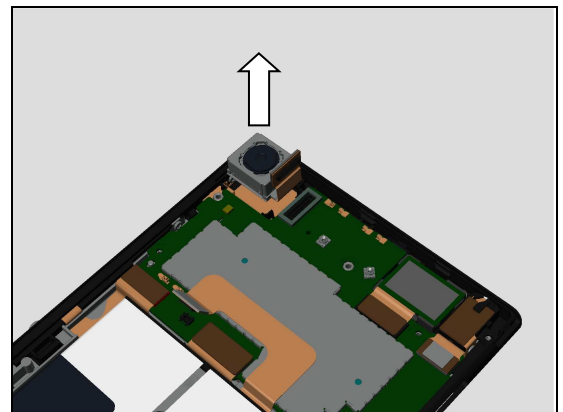
### 4.4.2 Main Camera

Disconnect the Main Camera BtB connector by using the Front Opening Tool.

**Do not damage components on the Main PBA!**



Remove the Main Camera.



### 4.4.3 Sponge BTB Main Camera

Detach the Sponge BTB Main Camera by using plastic tweezers.

**Scrap! Not to be reused!**

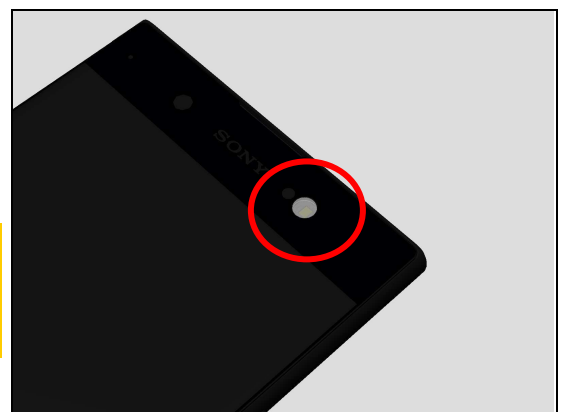
**Do not damage the Main Camera!**



## 4.5 Front Camera

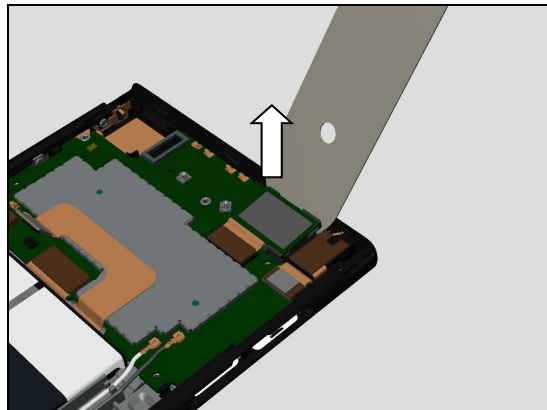
### 4.5.1 Front Camera

**Note! Just before detaching the Front Camera need to heat onto touch panel front camera hole area by using Hot Air device, temperature 80 degree, distance 1cm, time about 30 seconds.**



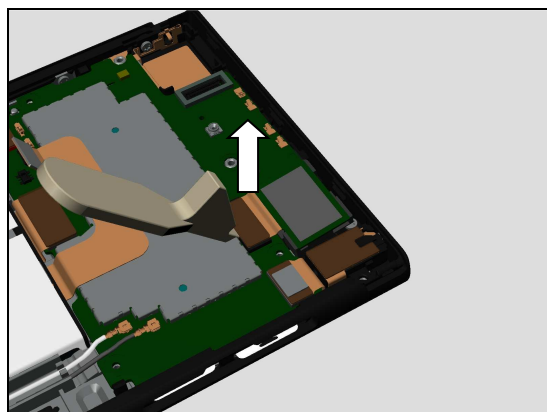
## Disassembly

Detach the Front Camera from this position by using Flexible Disassembly tool.

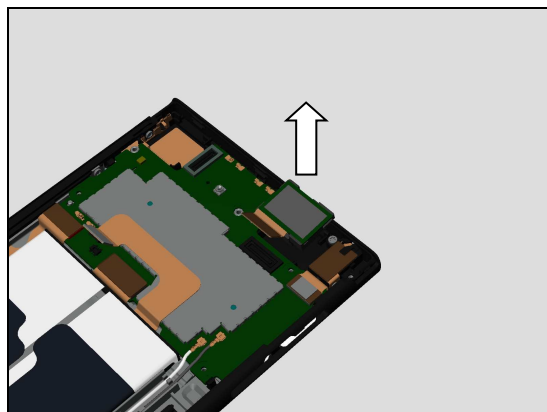


Disconnect the Front Camera BtB connector by using the Front Opening Tool.

**Do not damage components on the Main PBA!**



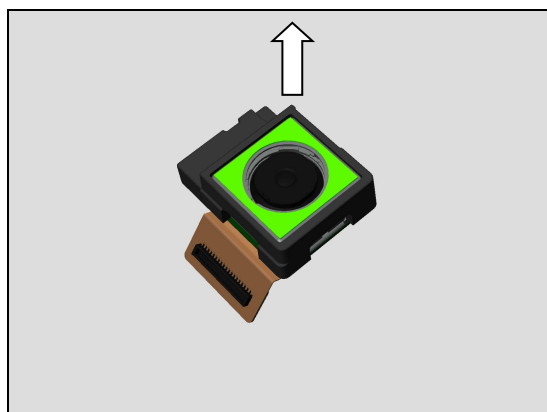
Remove the Front Camera.



### 4.5.2 Adhesive Front Camera

Detach the Adhesive Front Camera.

**Scrap! Not to be reused!**

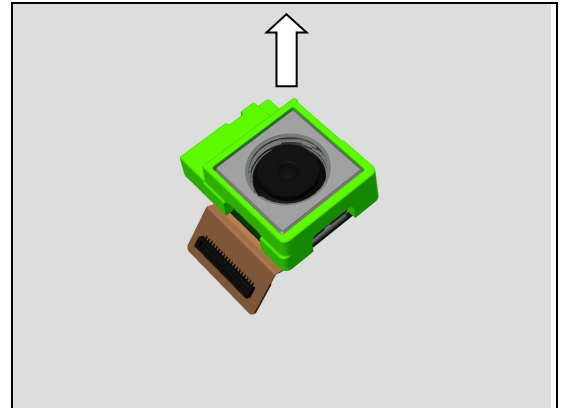




## Disassembly

### 4.5.3 Rubber Front Camera

Remove the Rubber Front Camera.

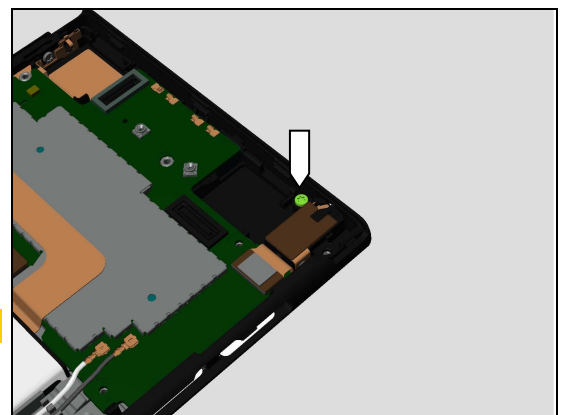


## 4.6 Audio Jack FPC Assy

### 4.6.1 Audio Jack FPC Assy

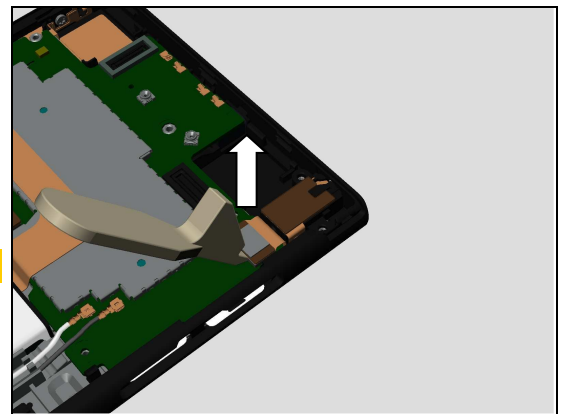
Remove the Screw TORX M1.2 L2.5 Silver by using a screwdriver with Bits T5.

**Scrap! Not to be reused!**

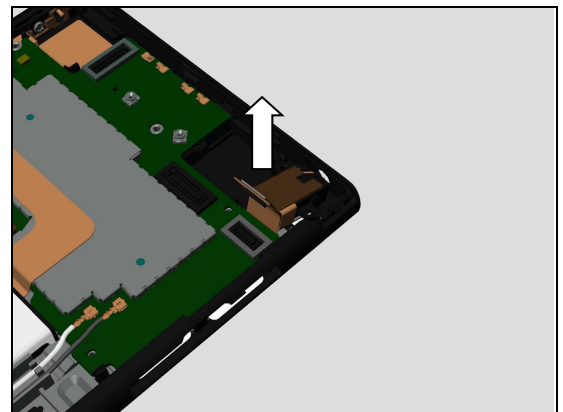


Disconnect the Audio Jack FPC Assy BtB connector by using the Front Opening Tool.

**Do not damage components on the Main PBA!**

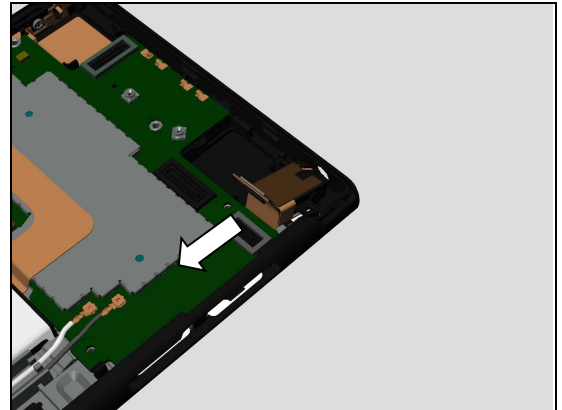


Lift up the Audio Jack FPC Assy.

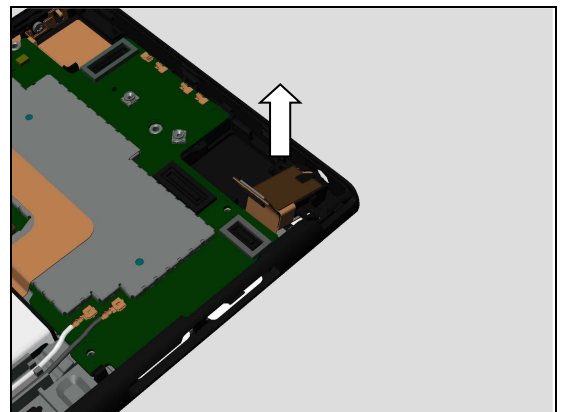


## Disassembly

Release the Audio Jack FPC Assy from its hole.



Remove the Audio Jack FPC Assy.

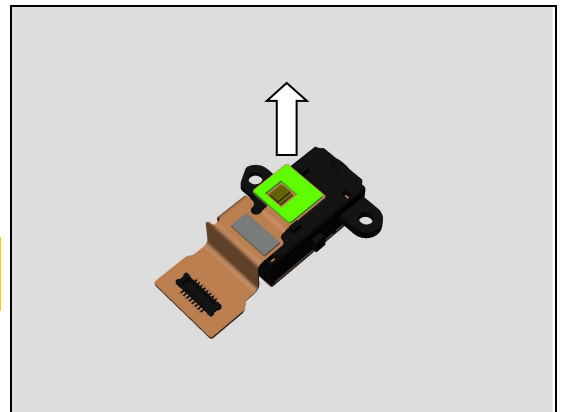


### 4.6.2 Sponge Notification LED

Detach the Sponge Notification LED.

**Scrap! Not to be reused!**

**Do not damage the Audio Jack FPC Assy.**

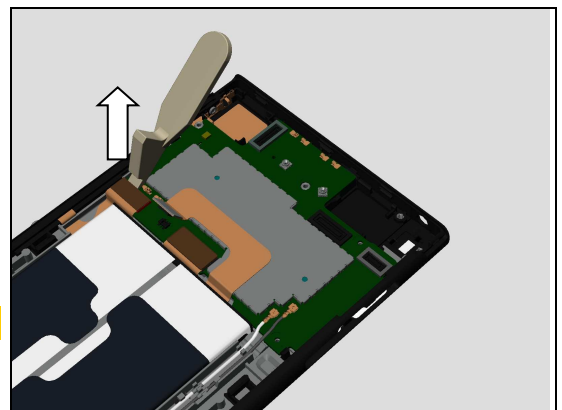


## 4.7 Main PBA

### 4.7.1 Main PBA

Disconnect the Sidekey FPC Assy BtB connector by using the Front Opening Tool.

**Do not damage components on the Main PBA!**

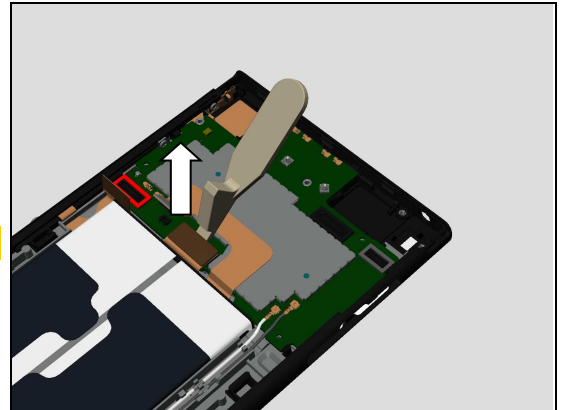




## Disassembly

Disconnect the Display FPC BtB connector by using the Front Opening Tool.

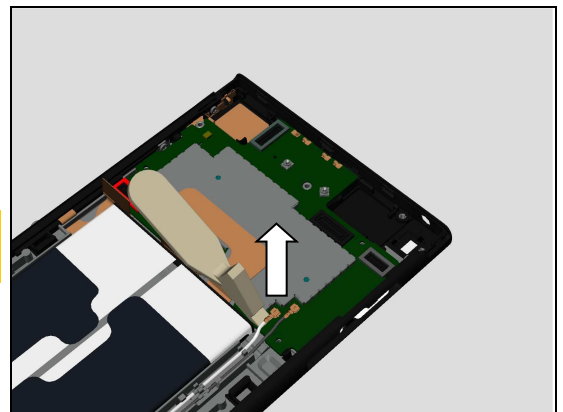
**Do not damage components on the Main PBA!**



Disconnect the RF Cable White connector by using the Front Opening Tool.

**Do not damage components on the Main PBA!**

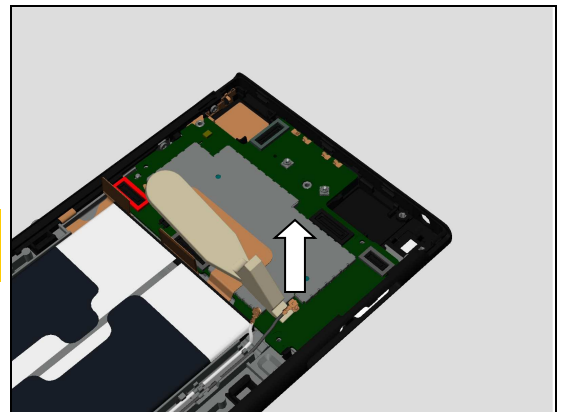
**This is only for G3221,G3223,G3226!**



Disconnect the RF Cable Black connector by using the Front Opening Tool.

**Do not damage components on the Main PBA!**

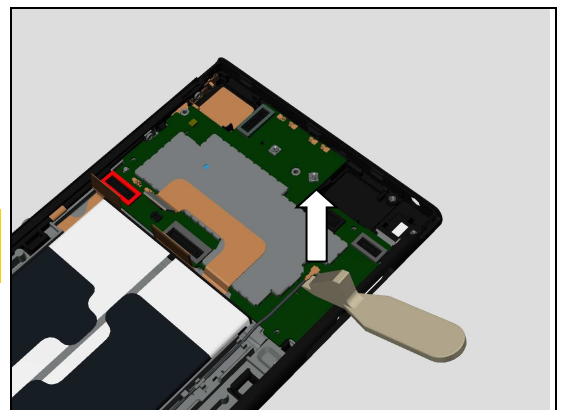
**This is only for G3221,G3223,G3226!**



Disconnect the RF Cable Grey connector by using the Front Opening Tool.

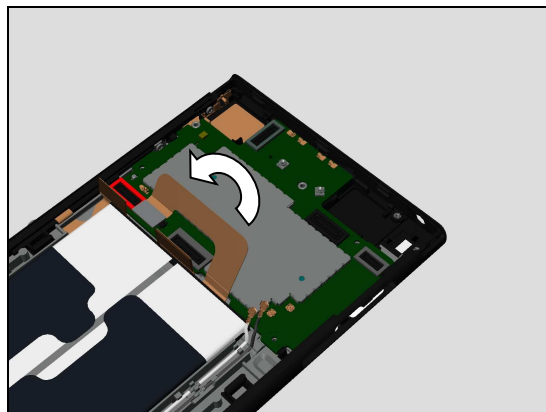
**Do not damage components on the Main PBA!**

**This is only for G3212!**

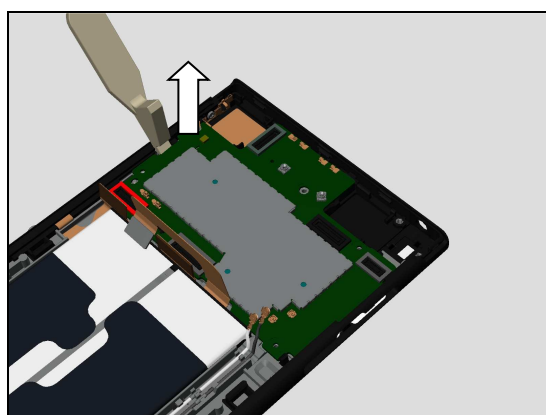


## Disassembly

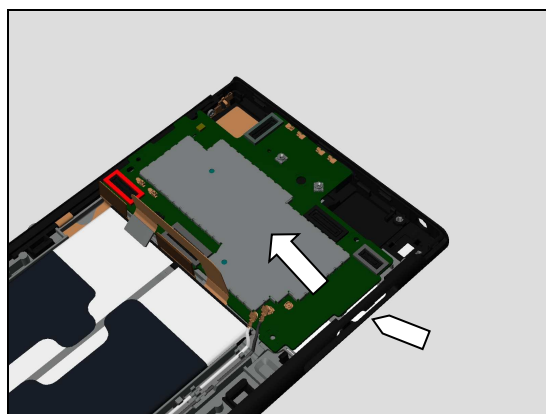
Rotate the battery FPC as shown in picture.



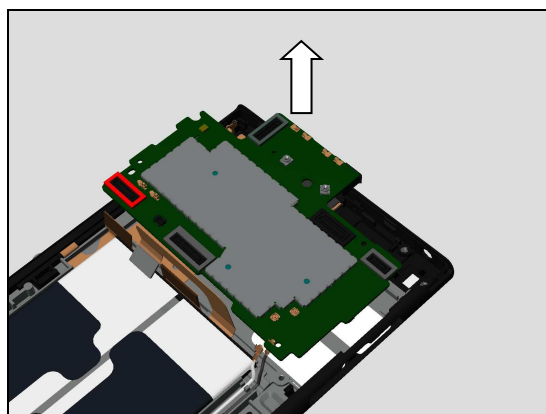
Release the Main PBA from this position by using the Front Opening Tool.



Release the Main PBA from SIM/SD hole as shown in picture.



Remove the Main PBA.

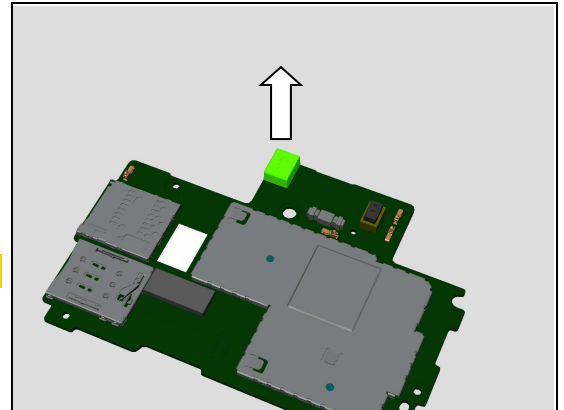


## Disassembly

### 4.7.2 Rubber 2nd MIC

Detach the Rubber 2nd MIC.

**Scrap! Not to be reused!**

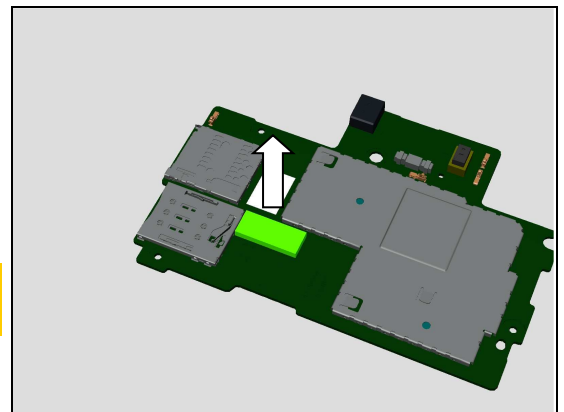


### 4.7.3 Sponge Main PBA Single SIM (G3221,G3223)

Detach the Sponge Main PBA Single SIM.

**Scrap! Not to be reused!**

**This is only for G3221,G3223!**

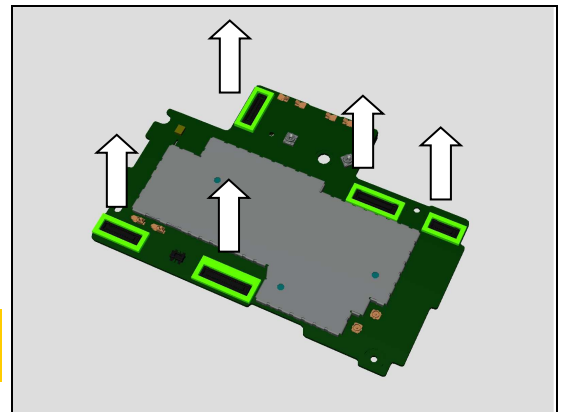


### 4.7.4 Rubber BTB Audio Jack, Rubber BTB Front Camera, Rubber BTB LCM and Rubber BTB Main Camera

Detach these Rubber BTB.

**Scrap! Not to be reused!**

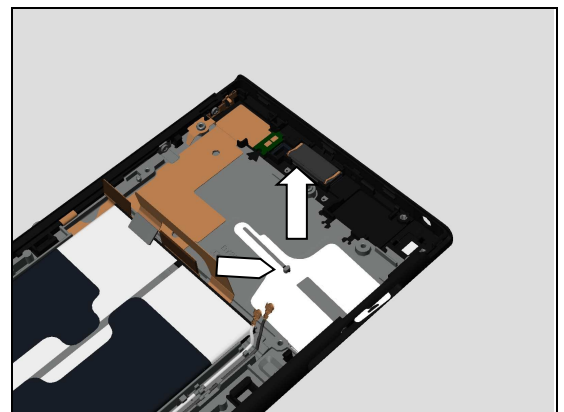
**Do not damage components on the Main PBA!**



## 4.8 CU Label Tray

### 4.8.1 CU Label Tray

Release the CU Label Tray from its position pin.



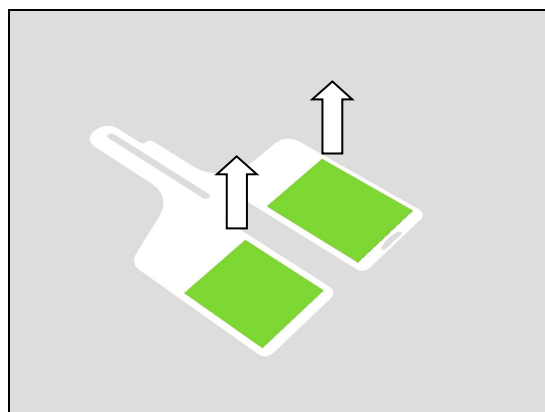
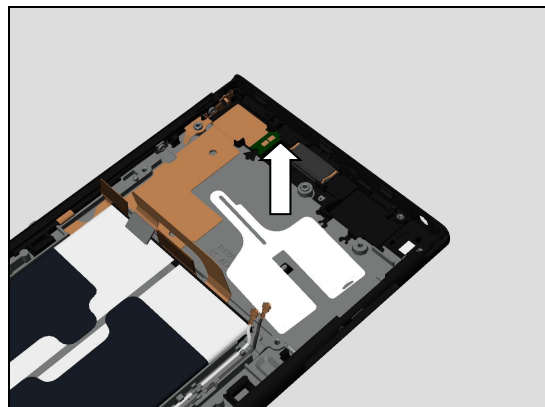
## Disassembly

Remove the CU Label Tray.

### 4.8.2 CU Label

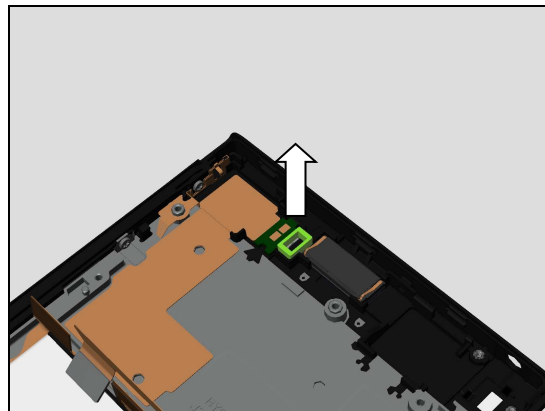
Detach the CU Label.

**Scrap! Not to be reused!**  
**Do not damage the CU Label Tray!**



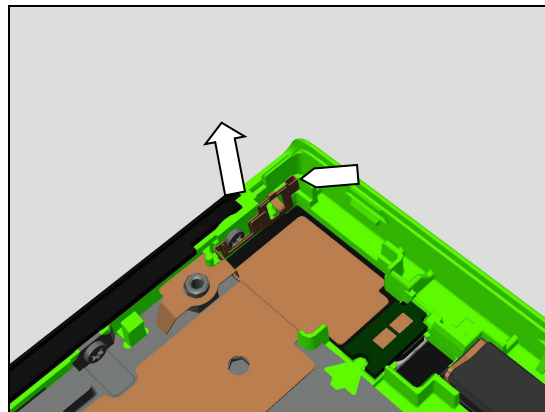
### 4.9 Rubber PL Sensor

Remove the Rubber PL Sensor by the plastic tweezers.



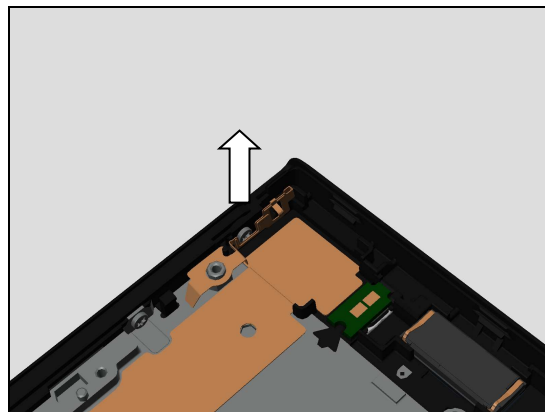
### 4.10 Bracket Main Camera

Release the Bracket Main Camera this side by the plastic tweezers as shown in picture.



## Disassembly

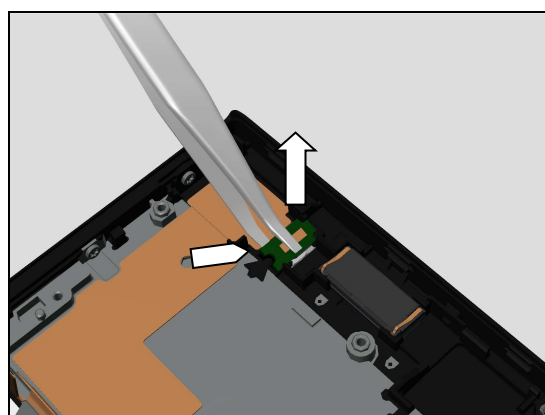
Remove the Bracket Main Camera.



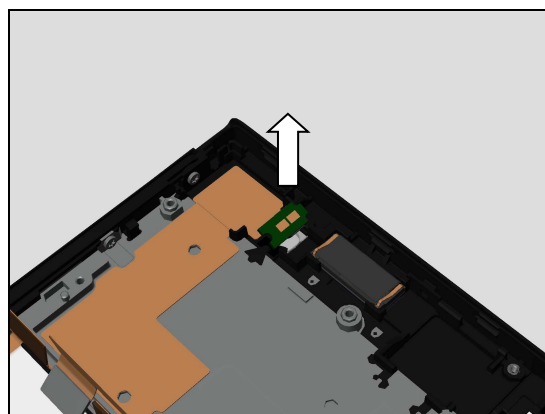
### 4.11 Front Flash LED PCB

#### 4.11.1 Front Flash LED PCB

Detach the Front Flash LED PCB by using Flex Film Assembly Tool.



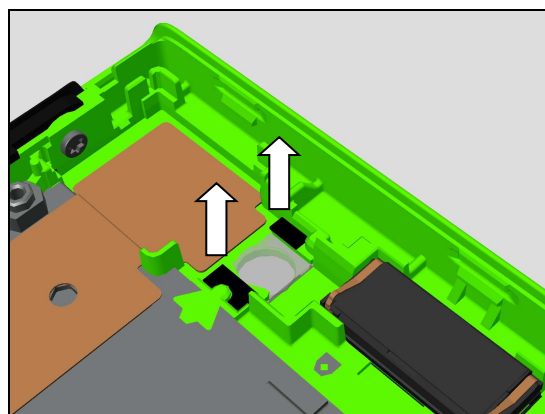
Remove the Front Flash LED PCB.



#### 4.11.2 Adhesive Front Flash LED PCB

Detach the Adhesive Front Flash LED PCB.

**Scrap! Not to be reused!**



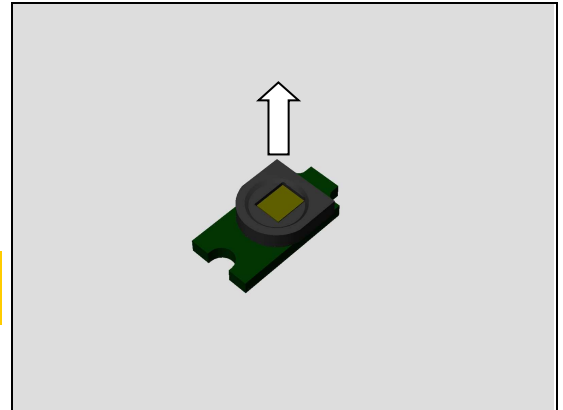
## Disassembly

### 4.11.3 Rubber Front Flash LED

Detach the Rubber Front Flash LED by using the plastic tweezers.

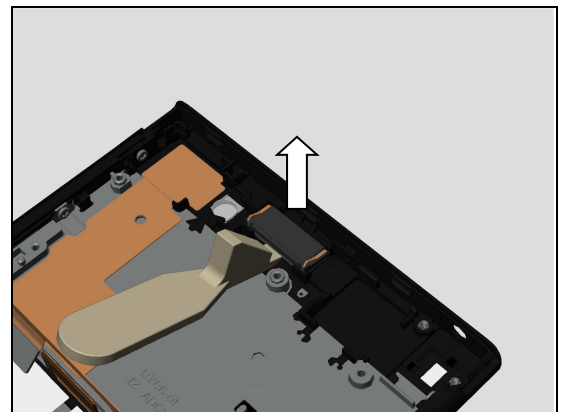
**Scrap! Not to be reused!**

**Do not damage components on the PBA!**



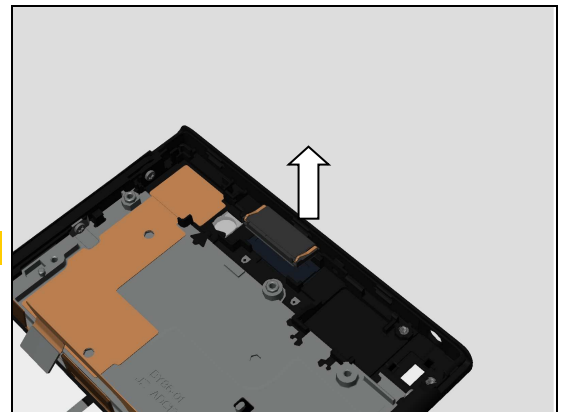
### 4.12 Ear Speaker and Adhesive Ear Speaker

Detach the Ear Speaker by using the Front Opening Tool.



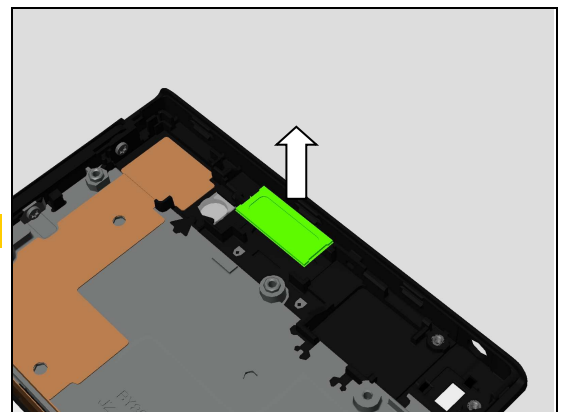
Remove the Ear Speaker.

**Scrap! Not to be reused!**



Detach the Adhesive Ear Speaker by using plastic tweezers.

**Scrap! Not to be reused!**



## Disassembly

### 4.13 Main Antenna Speaker Box

#### 4.13.1 Main Antenna Speaker Box

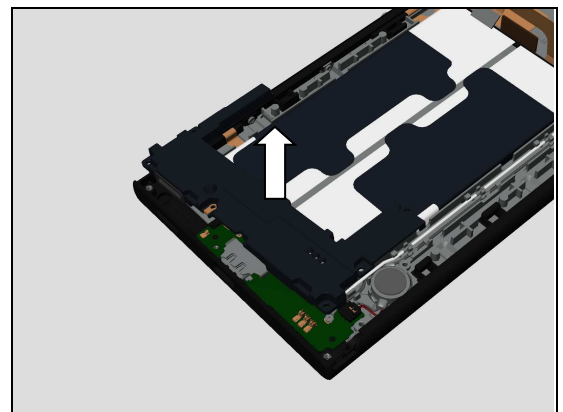
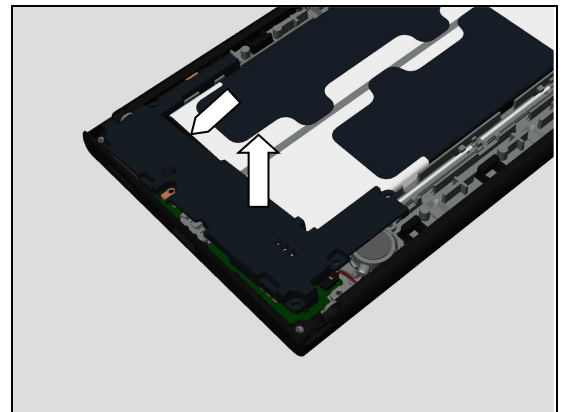
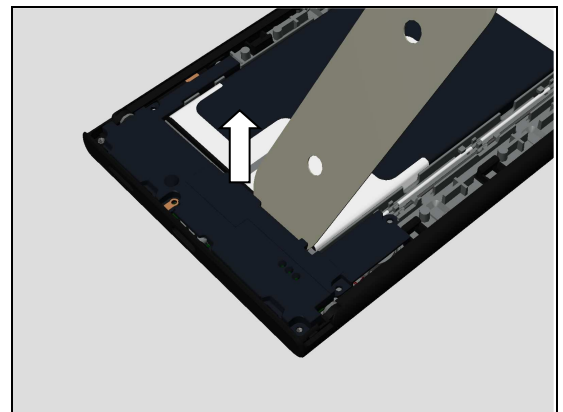
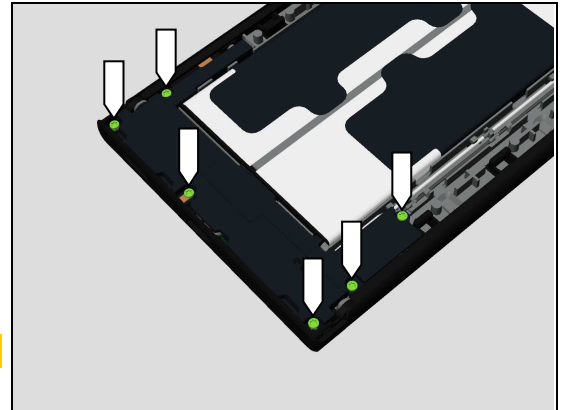
Remove the six Screw TORX M1.2 L2.5 Silver by using a screwdriver with Bits T5.

**Scrap! Not to be reused!**

Release the Main Antenna Speaker Box from this position by using the Flexible Disassembly tool as shown in picture.

Lift up the Main Antenna Speaker Box to release this hook by fingers as shown in picture.

Remove the Main Antenna Speaker Box.



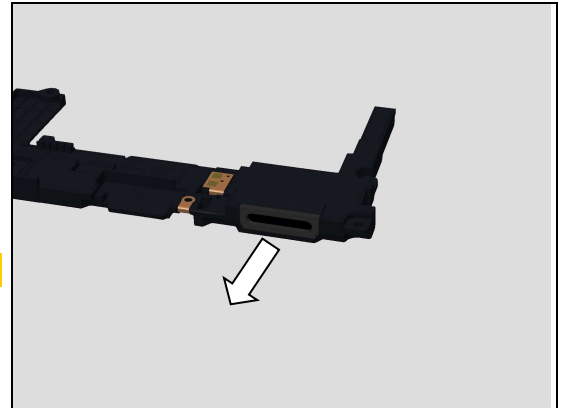


## Disassembly

### 4.13.2 Speaker Sponge

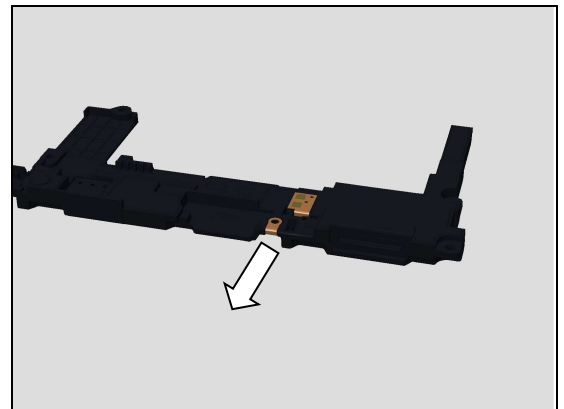
Detach the Speaker Sponge by using the plastic tweezers.

**Scrap! Not to be reused!**



### 4.13.3 Contact Clip Speaker Box

Remove the Contact Clip Speaker Box.



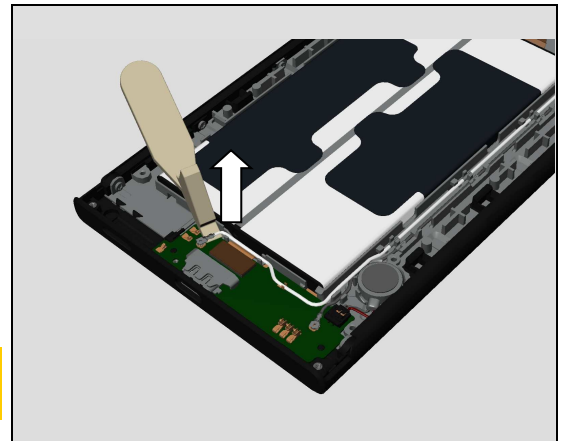
## 4.14 RF Cable

### 4.14.1 RF Cable White and RF Cable Black (G3221,G3223,G3226)

Disconnect the RF Cable White connector by using the Front Opening Tool.

**Do not damage components on the Sub PBA!**

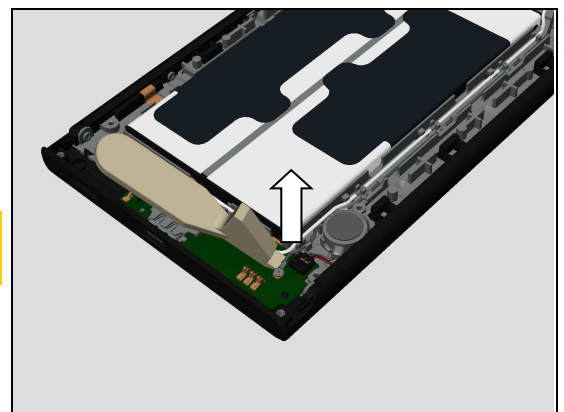
**This is only for G3221,G3223,G3226!**



Disconnect the RF Cable Black connector by using the Front Opening Tool.

**Do not damage components on the Sub PBA!**

**This is only for G3221,G3223,G3226!**

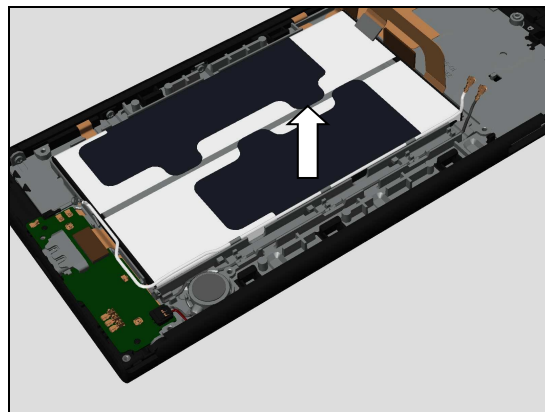




## Disassembly

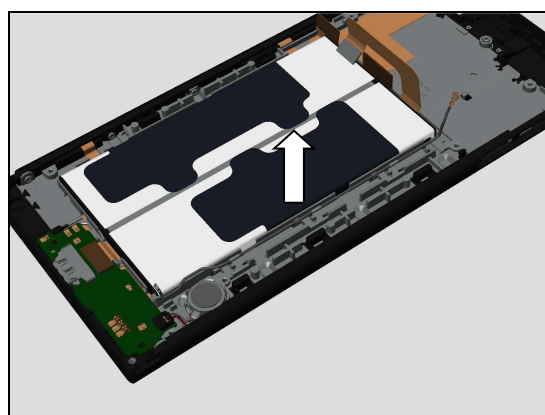
Remove the RF Cable White.

***This is only for G3221,G3223,G3226!***



Remove the RF Cable Black.

***This is only for G3221,G3223,G3226!***

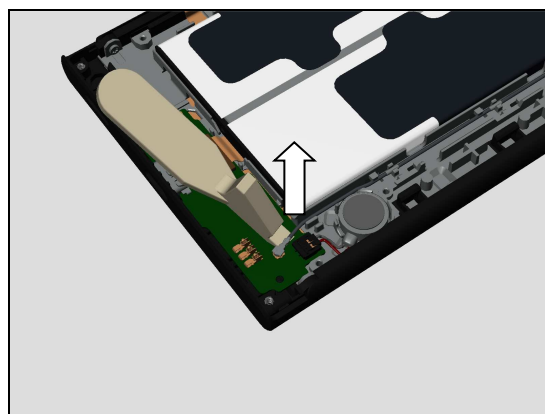


### 4.14.2 RF Cable Grey (G3212)

Disconnect the RF Cable Grey connector by using the Front Opening Tool.

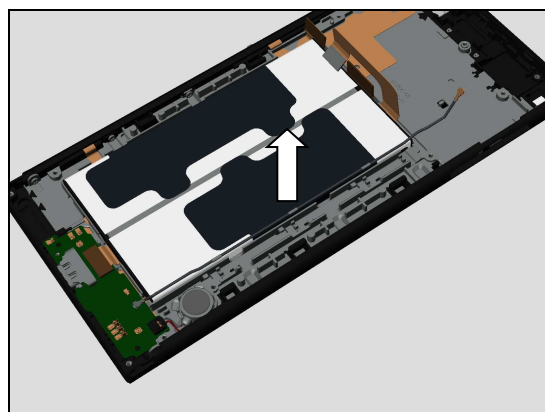
***Do not damage components on the Sub PBA!***

***This is only for G3212!***



Remove the RF Cable Grey.

***This is only for G3212!***



## Disassembly

### 4.15 Sub PBA Assy

#### 4.15.1 Sub PBA Assy

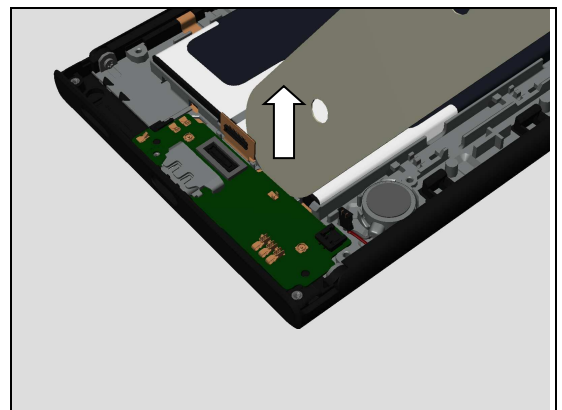
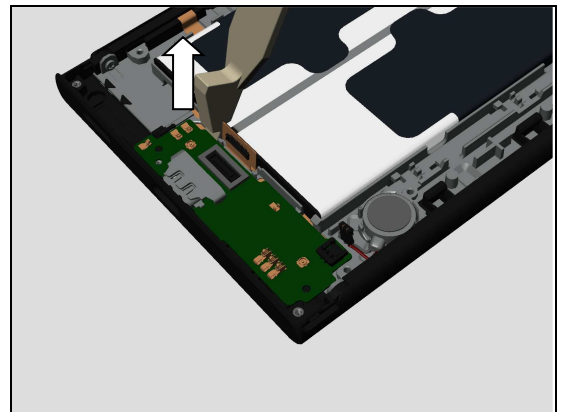
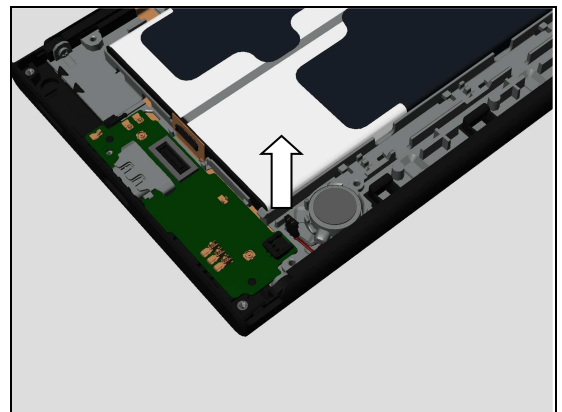
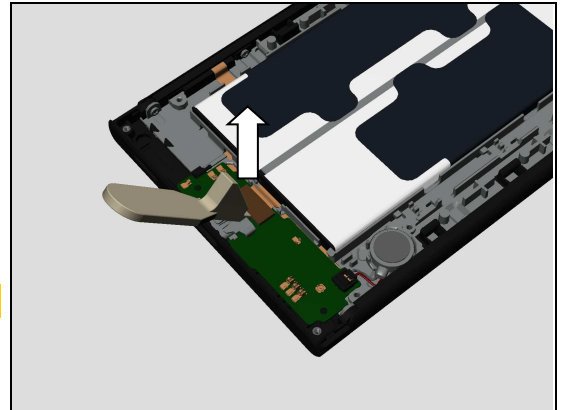
Disconnect the Sidekey FPC Assy BtB connector by using the Front Opening Tool.

**Do not damage components on the Sub PBA!**

Disconnect the Vibrator connector by fingers.

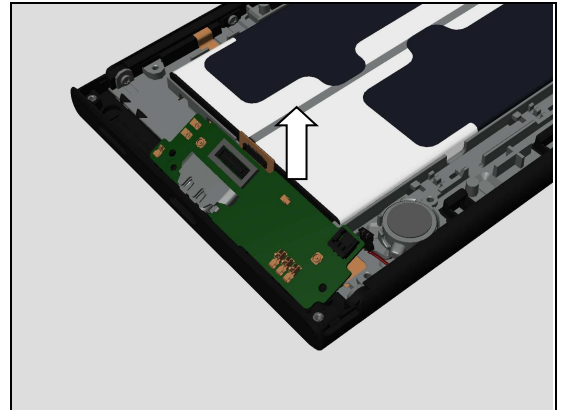
Release the Sub PBA Assy from this position by using the Front Opening Tool.

Then release the Sub PBA Assy from this position by using the Flexible Disassembly tool.

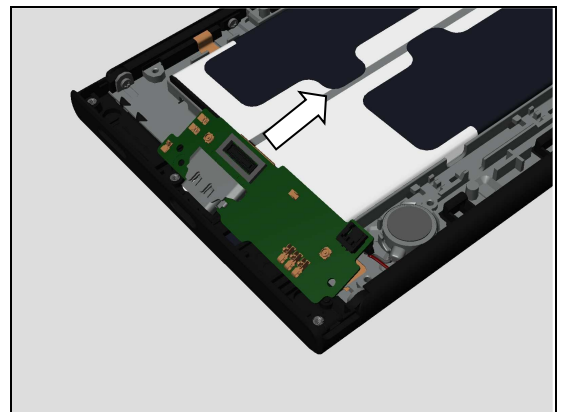


## Disassembly

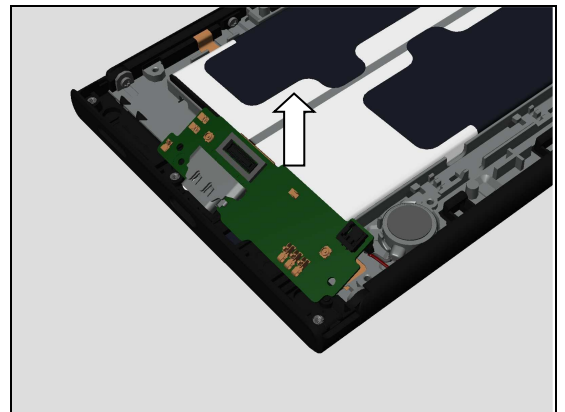
Lift up Sub PBA Assy.



Release the Sub PBA Assy from USB hole.



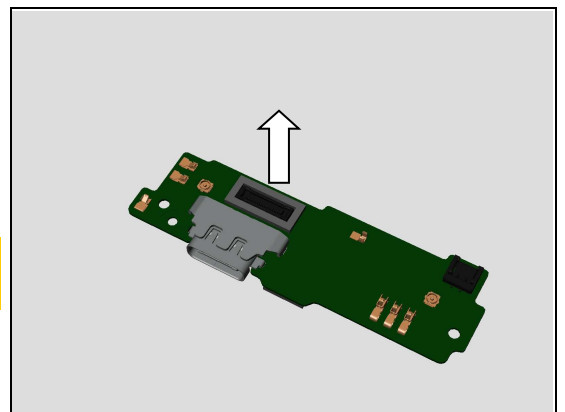
Remove the Sub PBA Assy



### 4.15.2 Rubber BTB Sub PBA

Detach Rubber BTB Sub PBA.

**Scrap! Not to be reused!**  
**Do not damage components on the Sub PBA!**



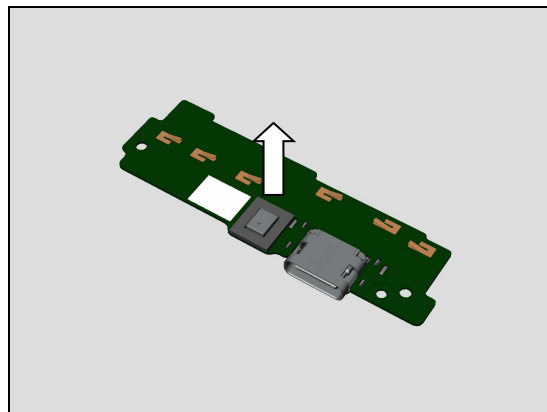
## Disassembly

### 4.15.3 Sponge 1st Mic

Detach Sponge 1st Mic.

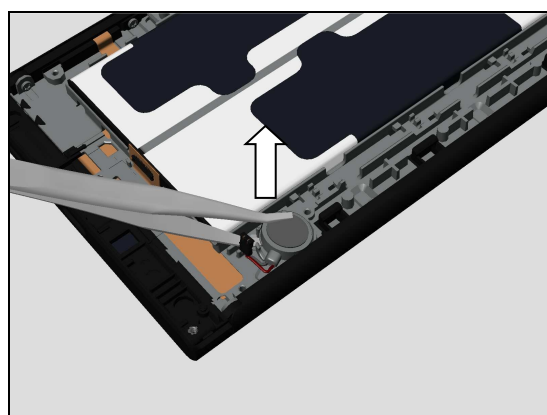
**Scrap! Not to be reused!**

**Do not damage components on the Sub PBA!**

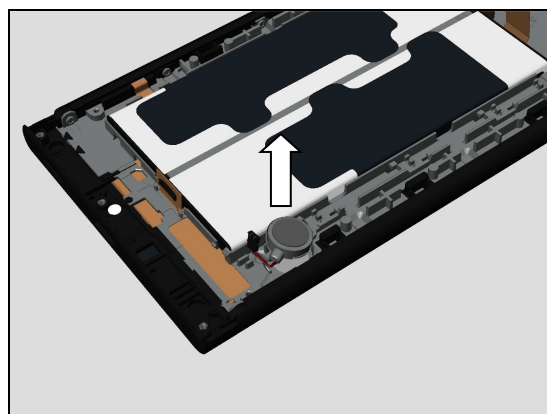


### 4.16 Vibrator and Adhesive Vibrator

Detach the Vibrator by using Flex Film Assembly Tool.

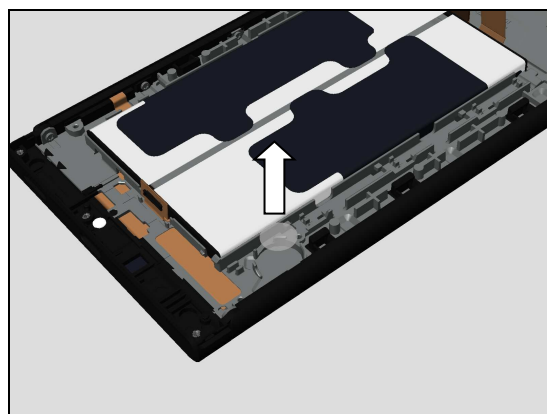


Remove the Vibrator.



Detach the Adhesive Vibrator.

**Scrap! Not to be reused!**

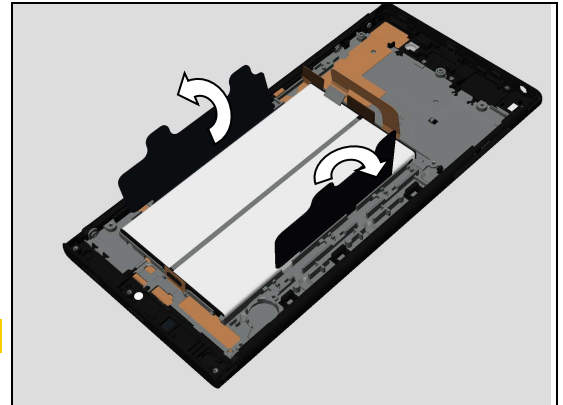


## Disassembly

### 4.17 Battery, Film Mylar Battery Left and Film Mylar Battery Right

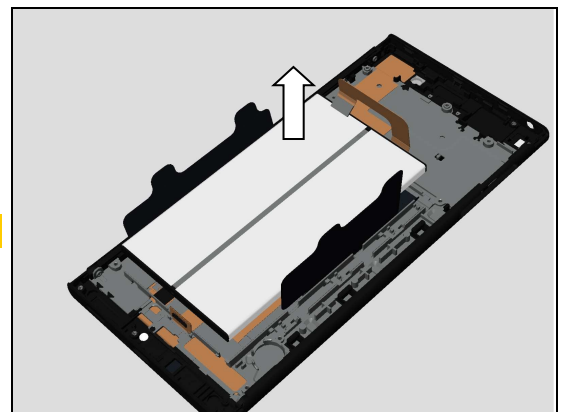
Slowly detach the mylars as shown in picture..

***Make sure not to damage the Battery!***



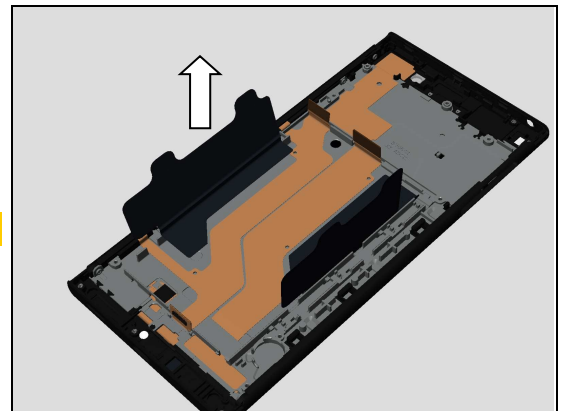
Slowly detach the Battery from its cavity.

***Make sure not to damage the Battery!***



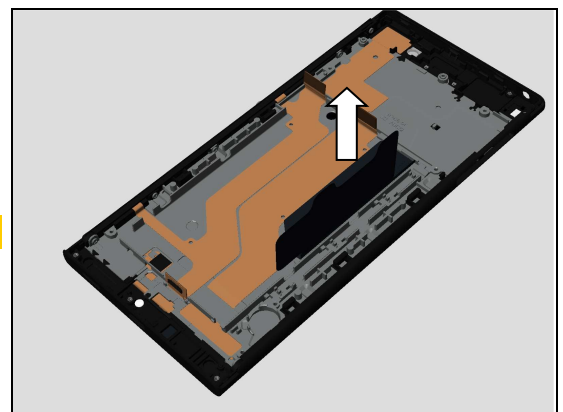
Detach the Film Mylar Battery Left.

***Scrap! Not to be reused!***



Detach the Film Mylar Battery Right.

***Scrap! Not to be reused!***



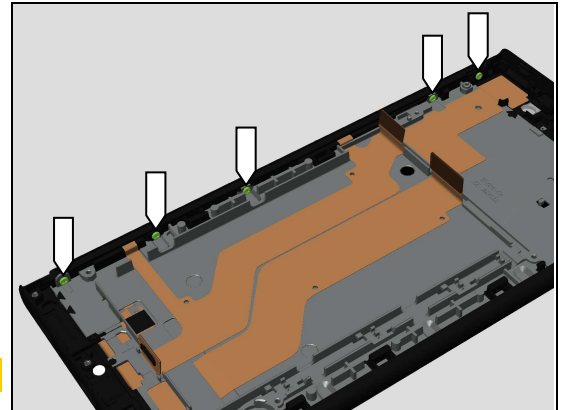
## Disassembly

### 4.18 Side Panel Right and Keys

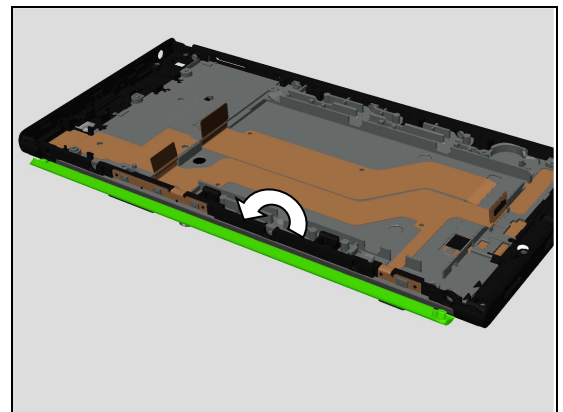
#### 4.18.1 Side Panel Right and Adhesive LCM Right Side

Remove the five Screw TORX M1.2 L2.5 Silver by using a T5 screwdriver.

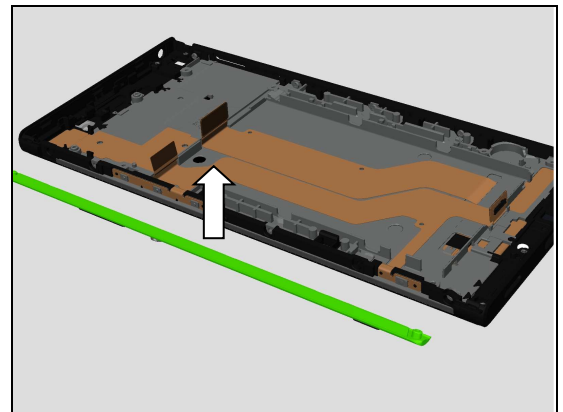
**Scrap! Not to be reused!**



Detach the Side Panel Right.

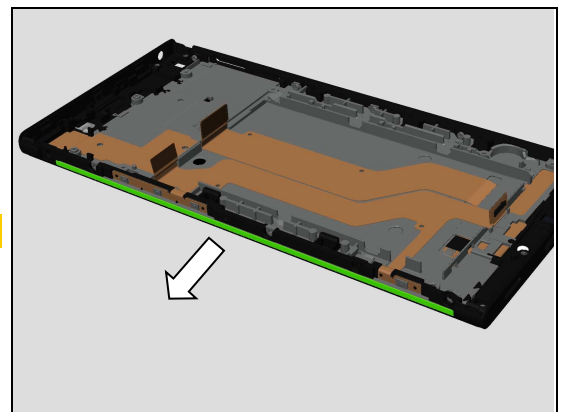


Remove the Side Panel Right.



Detach the Adhesive LCM Right Side.

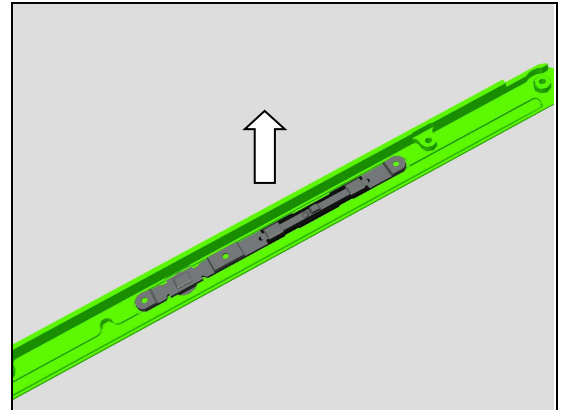
**Scrap! Not to be reused!**



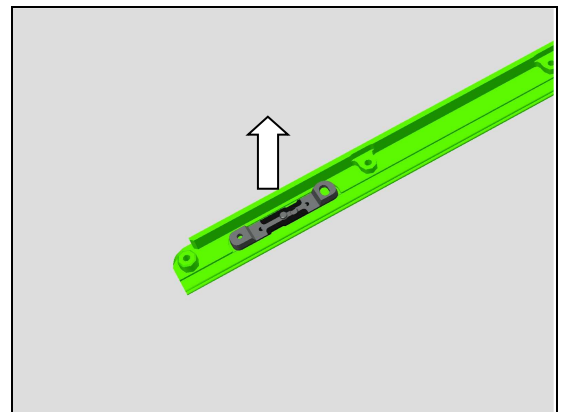
## Disassembly

### 4.18.2 Key Power\_Volume and Key Camera

Remove the Key Power\_Volume.



Remove the Key Camera.

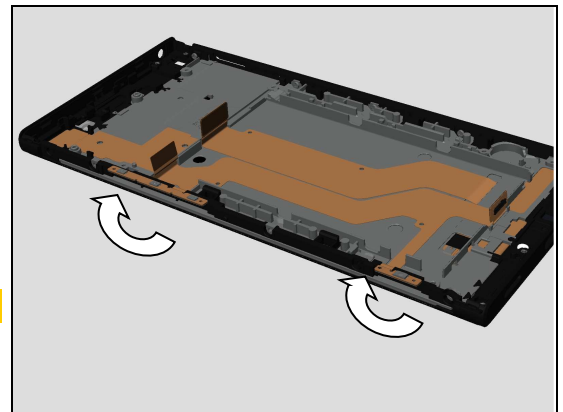


### 4.19 Sidekey FPC Assy

#### 4.19.1 Sidekey FPC Assy

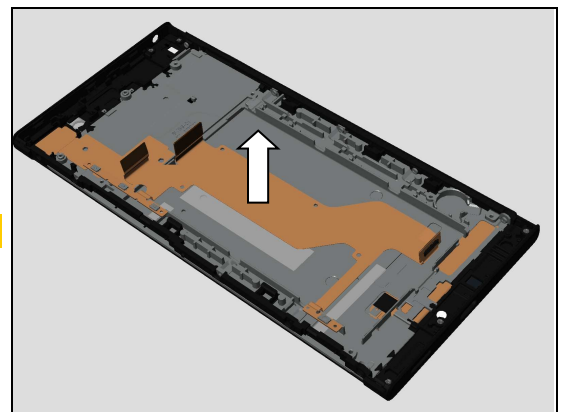
Detach the Power\_Volume key FPC and Camera Key FPC.

**Do not damage the FPC!**



Detach the Sidekey FPC Assy.

**Do not damage the Sidekey FPC Assy!**



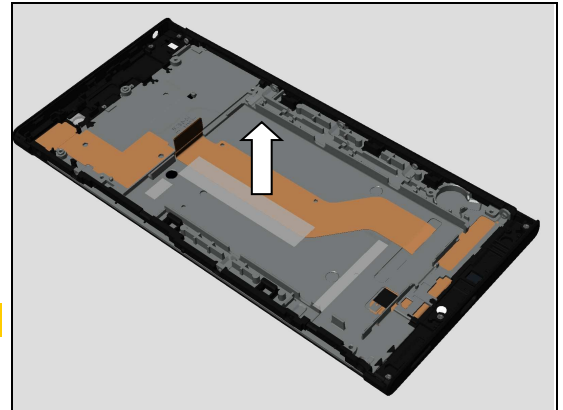


## Disassembly

### 4.19.2 Adhesive Side Key FPC Main, Adhesive Side Key FPC\_B and Adhesive Side Key FPC\_C

Detach the adhesive.

**Scrap! Not to be reused!**

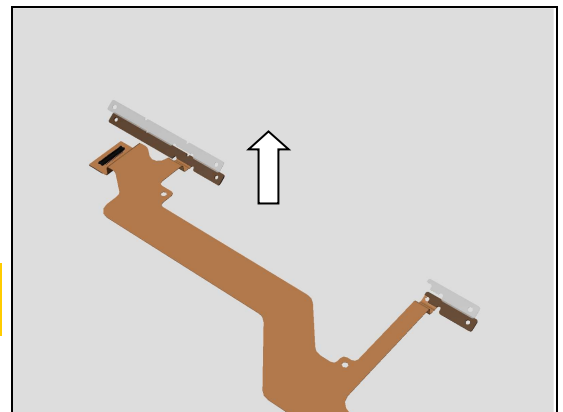


### 4.19.3 Adhesive Power\_Volume Key FPC and Adhesive Camera Key FPC

Detach the adhesive.

**Scrap! Not to be reused!**

**Do not damage FPC!**

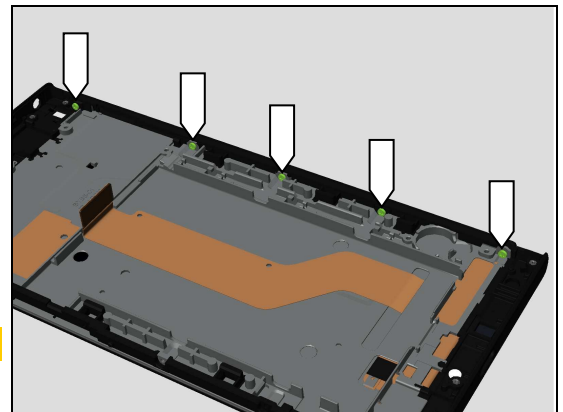


## 4.20 Side Panel Left

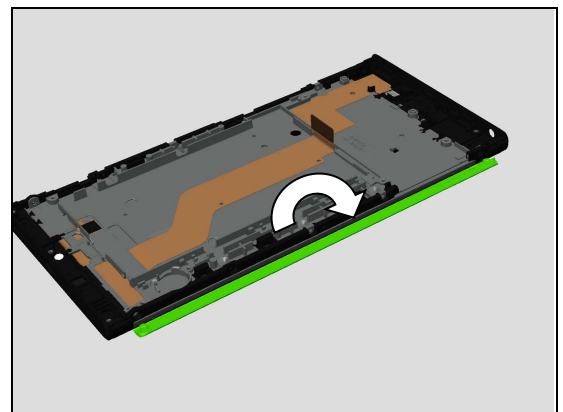
### 4.20.1 Side Panel Left

Remove the five Screw TORX M1.2 L2.5 Silver by using a T5 screwdriver.

**Scrap! Not to be reused!**

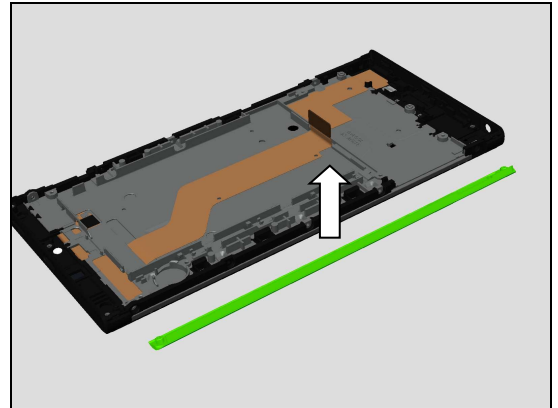


Detach the Side Panel Left.



## Disassembly

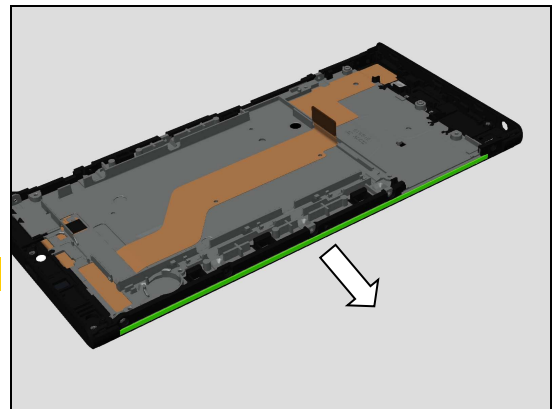
Remove the Side Panel Left.



### 4.20.2 Adhesive LCM Left Side

Detach the Adhesive LCM Left Side.

**Scrap! Not to be reused!**

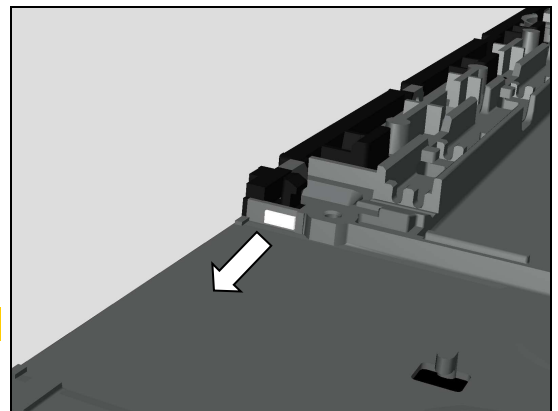


## 4.21 Display Cover Assy

### 4.21.1 Water Intrusion Label Rectangle

Detach the Water Intrusion Label Rectangle by using the plastic tweezers.

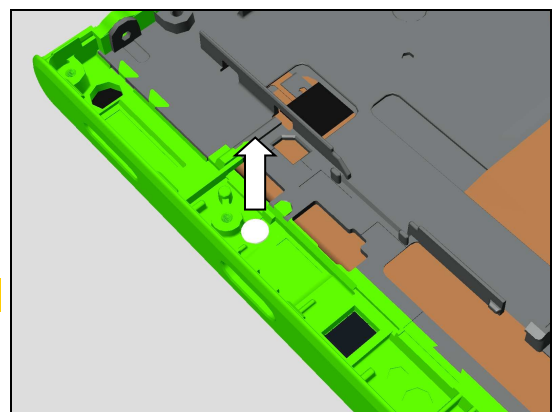
**Scrap! Not to be reused!**



### 4.21.2 Water Intrusion Label

Detach the Water Intrusion Label by using the plastic tweezers.

**Scrap! Not to be reused!**

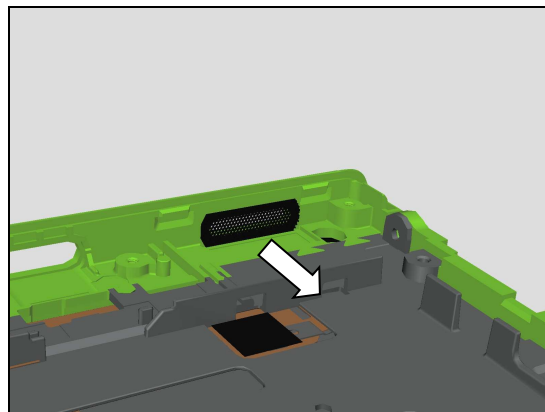


## Disassembly

### 4.21.3 Speaker Mesh

Detach the Speaker Mesh by using the plastic tweezers.

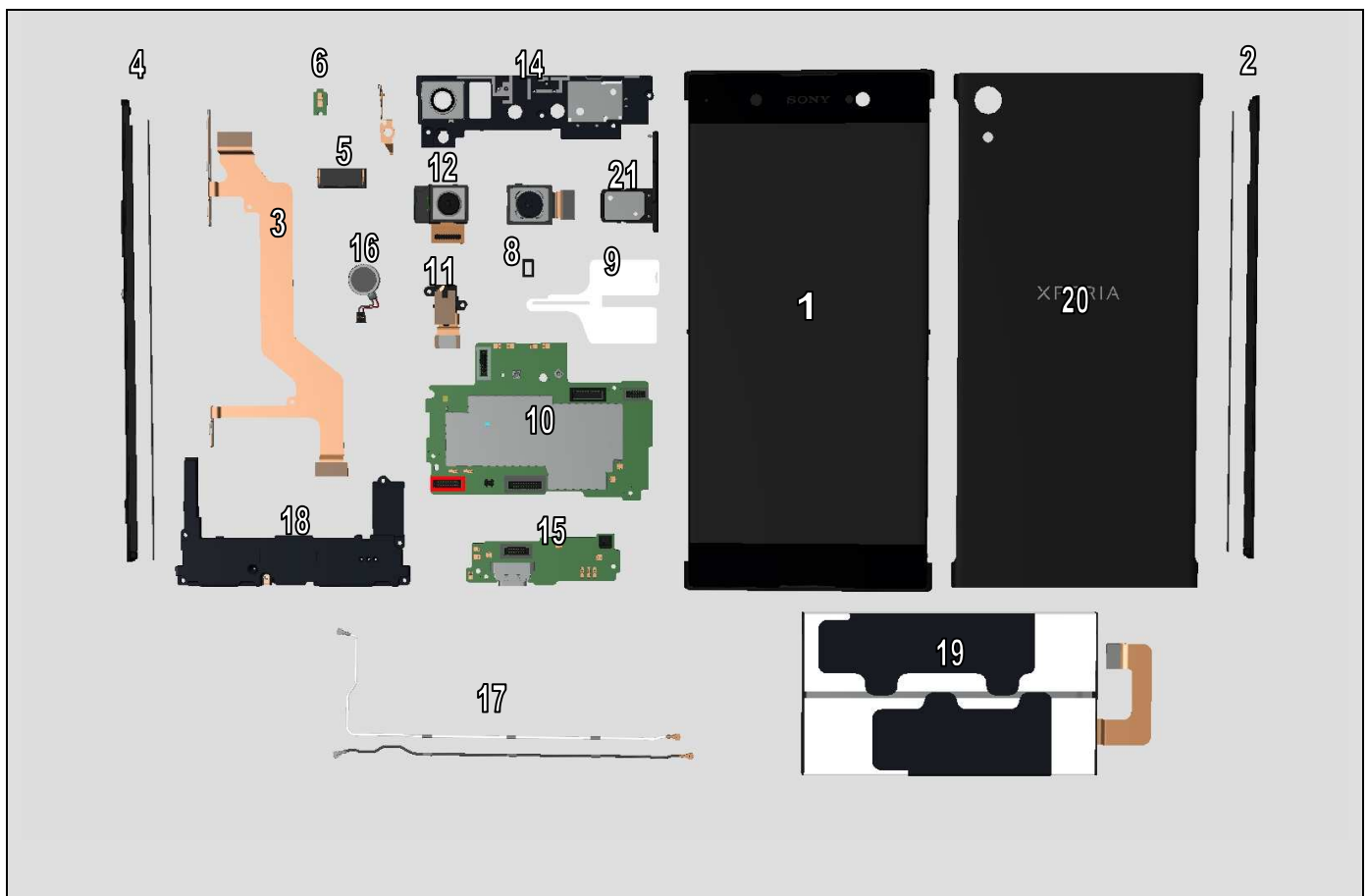
**Scrap! Not to be reused!**



## 5 Reassembly

The G3212/G3221/G3223/G3226 reassembly is done in the following order:

1. Display Cover Assy
2. Side Panel Left
3. Sidekey FPC Assy
4. Side Panel Right and Keys
5. Adhesive Ear Speaker and Ear Speaker
6. Front Flash LED PCB
7. Bracket Main Camera
8. Rubber PL Sensor
9. CU Label Tray
10. Main PBA
11. Audio Jack FPC Assy
12. Front Camera
13. Main Camera
14. Sub Antenna
15. Sub PBA Assy
16. Adhesive Vibrator and Vibrator
17. RF Cable
18. Main Antenna Speaker Box
19. Battery, Film Mylar Battery Left and Film Mylar Battery Right
20. Battery Cover Assy
21. Cap Tray



## Reassembly

Reassembly Quick Reference Chart is embedded.

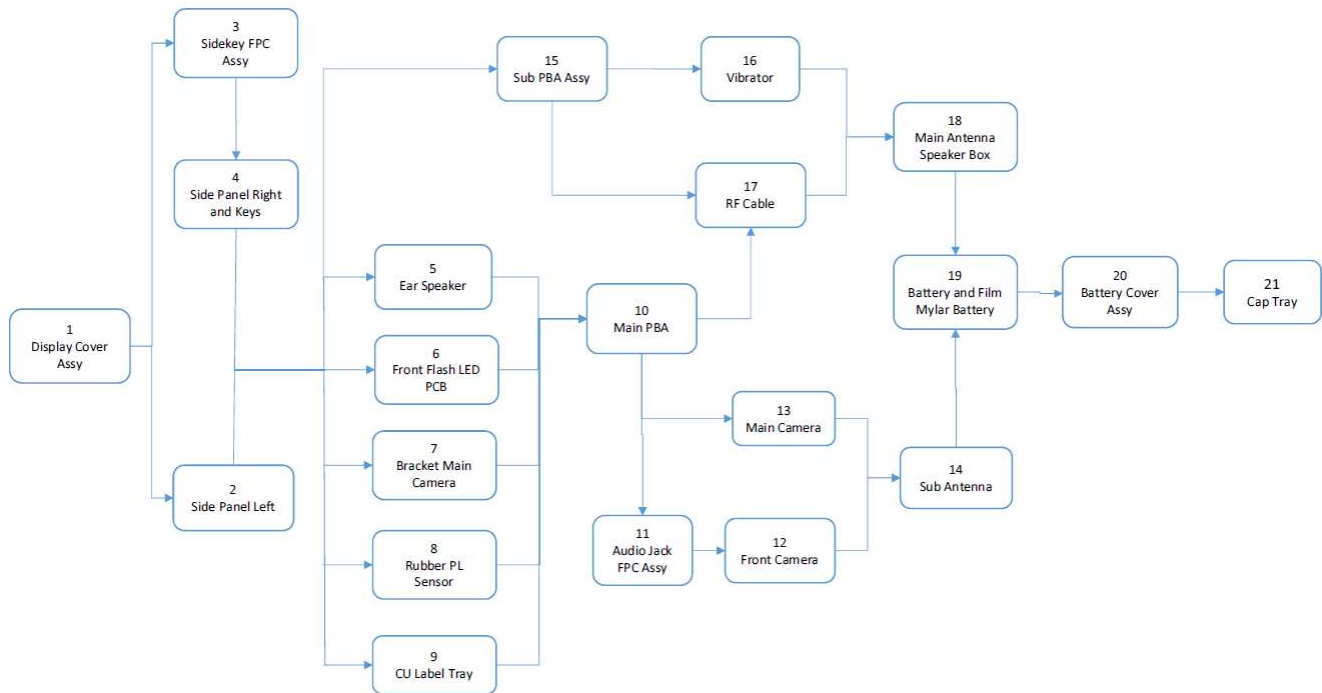


Reassembly  
Procedure.pdf



Required reassembly procedures of specific part replacement can be identified by Reassembly Quick Reference Chart.

The sequence numbers of the target parts in the chart correspond to the reassembly chapter numbers, please refer to corresponding chapter content for the parts not mentioned in this chart.



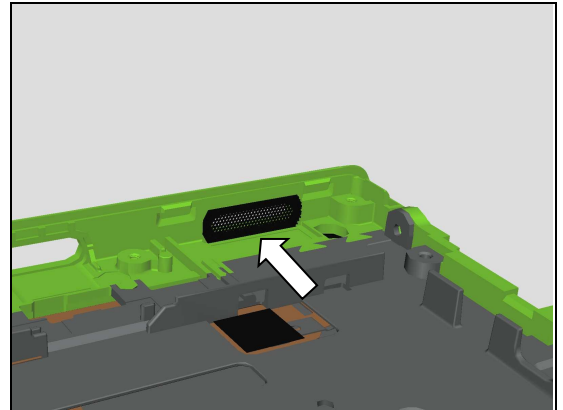
Replacement Target	Assembly Procedure
1 Display Cover Assy	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21
2 Side Panel Left	2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21
3 Sidekey FPC Assy	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 18, 19, 20, 21
4 Side Panel Right and Keys	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 18, 19, 20, 21
5 Ear Speaker	5, 10, 11, 12, 13, 14, 20, 21
6 Front Flash LED PCB	6, 10, 11, 12, 13, 14, 20, 21
7 Bracket Main Camera	7, 10, 11, 12, 13, 14, 20, 21
8 Rubber PL Sensor	8, 10, 11, 12, 13, 14, 20, 21
9 CU Label Tray	9, 10, 11, 12, 13, 14, 20, 21
10 Main PBA	10, 11, 12, 13, 14, 20, 21
11 Audio Jack FPC Assy	11, 12, 14, 20, 21
12 Front Camera	12, 14, 20, 21
13 Main Camera	13, 14, 20, 21
14 Sub Antenna	14, 20, 21
15 Sub PBA Assy	15, 17, 18, 20, 21
16 Vibrator	16, 18, 20, 21
17 RF Cable	17, 18, 20, 21
18 Main Antenna Speaker Box	18, 20, 21
19 Battery and Film Mylar Battery	19, 20, 21
20 Battery Cover Assy	20, 21
21 Cap Tray	21

## Reassembly

### 5.1 Display Cover Assy

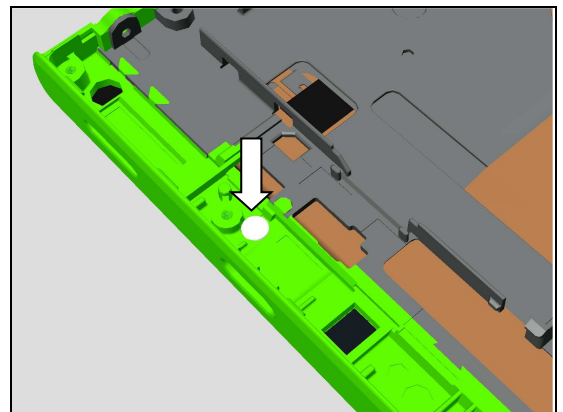
#### 5.1.1 Speaker Mesh

Attach a new Speaker Mesh onto its proper position as shown in picture.



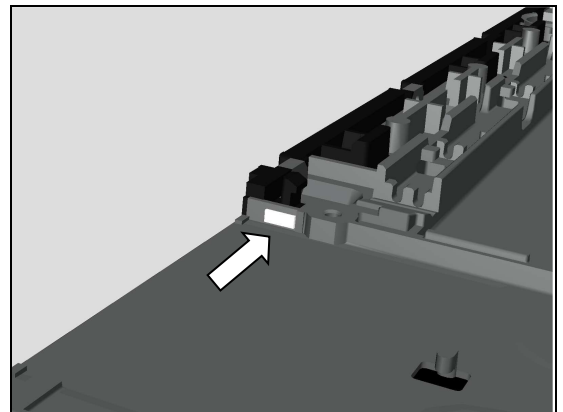
#### 5.1.2 Water Intrusion Label

Attach a new Water Intrusion Label onto its proper position as shown in picture.



#### 5.1.3 Water Intrusion Label Rectangle

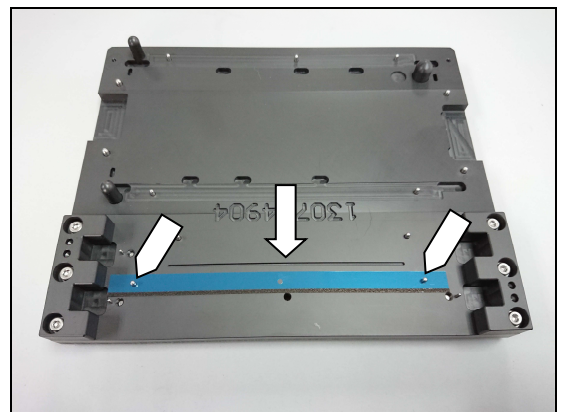
Attach a new Water Intrusion Label Rectangle onto its proper position as shown in picture.



### 5.2 Side Panel Left

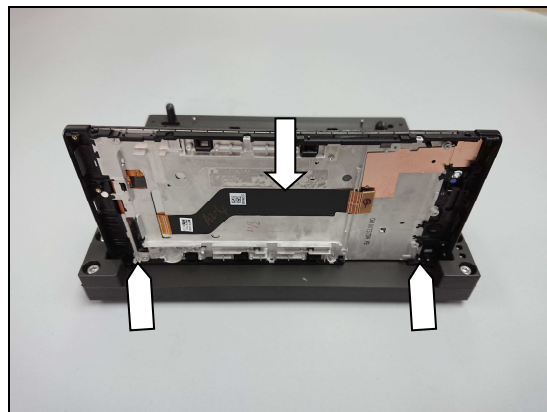
#### 5.2.1 Adhesive LCM Left Side

Mount the Adhesive LCM Left Side onto its proper position of the Panels Adhesive Fixture as shown in picture.



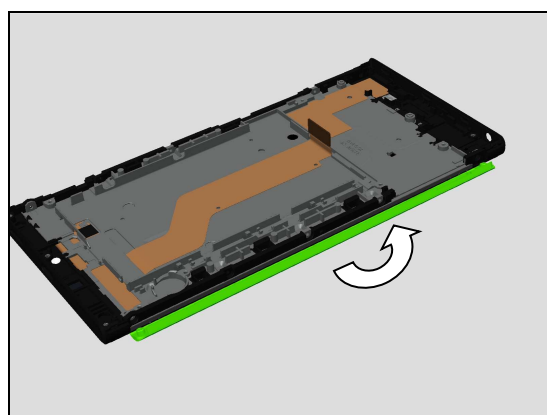
## Reassembly

Press to attach the Adhesive LCM Left Side onto Display Cover Assy as shown in picture.

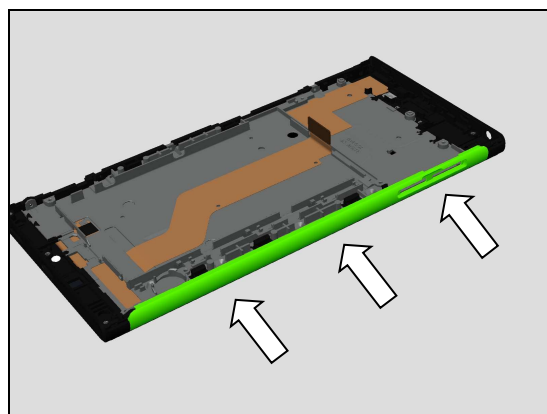


### 5.2.2 Side Panel Left

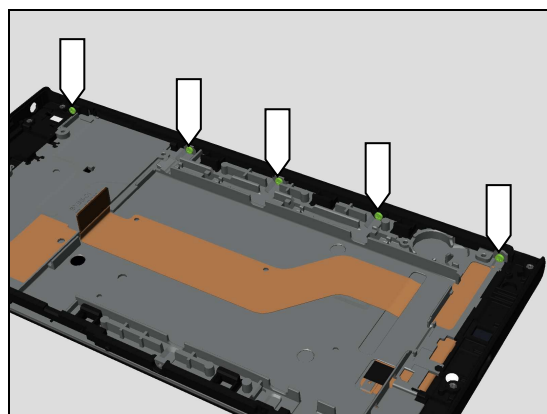
Mount the Side Panel Left as shown in picture.



Then press the Side Panel Left after mounting.



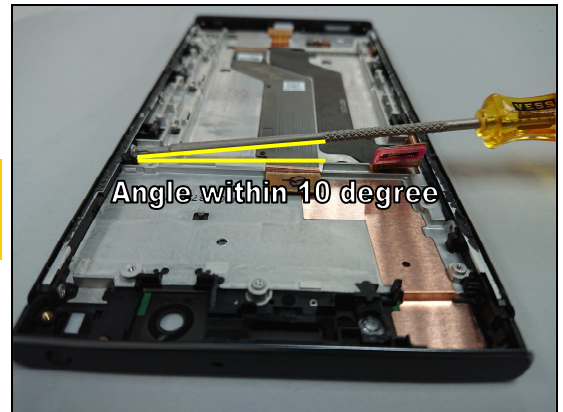
Tighten the five Screw TORX M1.2 L2.5 Silver with T5 Screwdriver.





## Reassembly

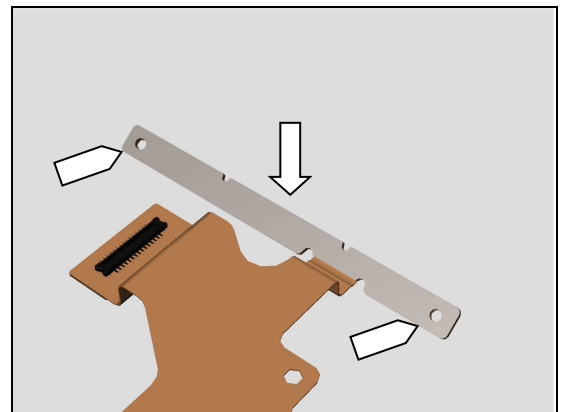
**Make sure to secure the angle between Screwdriver bit and front cover within 10 degree when tightening the screws.**



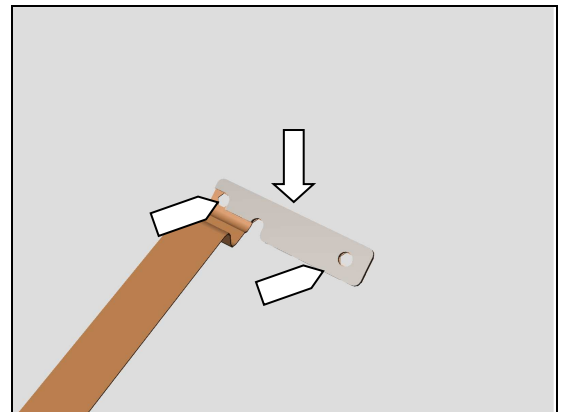
### 5.3 Sidekey FPC Assy

#### 5.3.1 Adhesive Power\_Volume Key FPC and Adhesive Camera Key FPC

Attach a new Adhesive Power\_Volume Key onto its proper position as shown in picture.

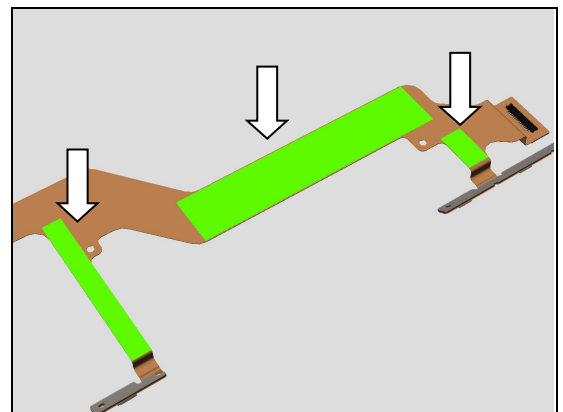


Attach a new Adhesive Camera Key FPC onto its proper position as shown in picture.



#### 5.3.2 Adhesive Side Key FPC Main, Adhesive Side Key FPC\_B and Adhesive Side Key FPC\_C

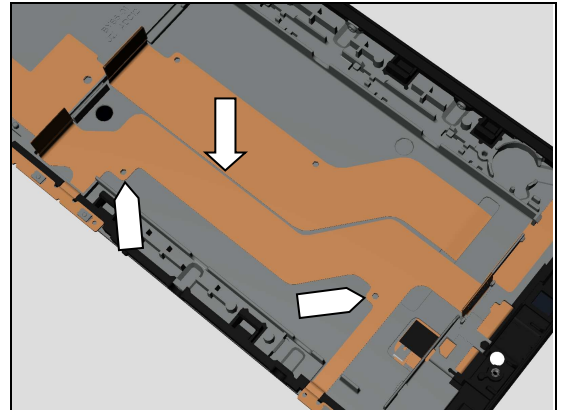
Attach a new Adhesive Side Key FPC Main, Adhesive Side Key FPC\_B and Adhesive Side Key FPC\_C in alignment with guiding lines on the FPC.



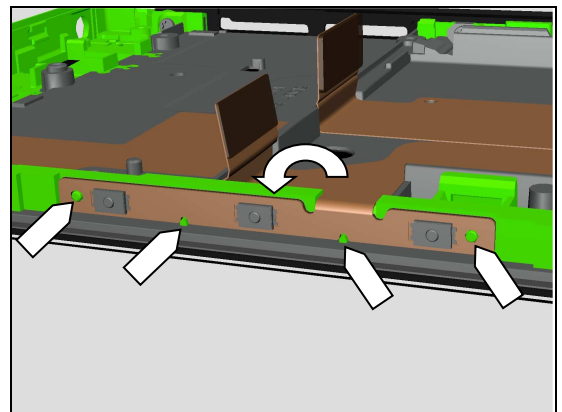
## Reassembly

### 5.3.3 Sidekey FPC Assy

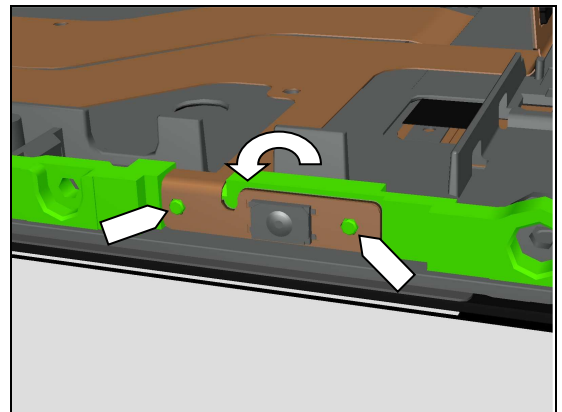
Attach the Sidekey FPC Assy onto its proper position as shown in picture.



Attach the Power\_Volume key FPC onto its proper position as shown in picture.



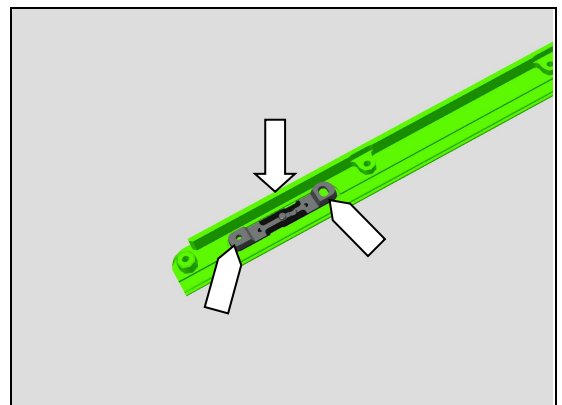
Attach the Camera Key FPC onto its proper position as shown in picture.



## 5.4 Side Panel Right and Keys

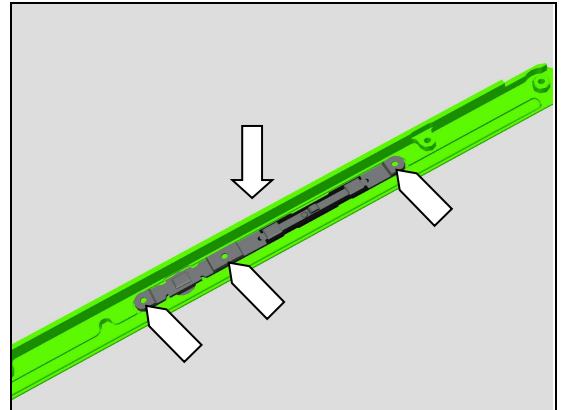
### 5.4.1 Key Camera and Key Power\_Volume

Mount the Key Camera onto its proper position as shown in picture.



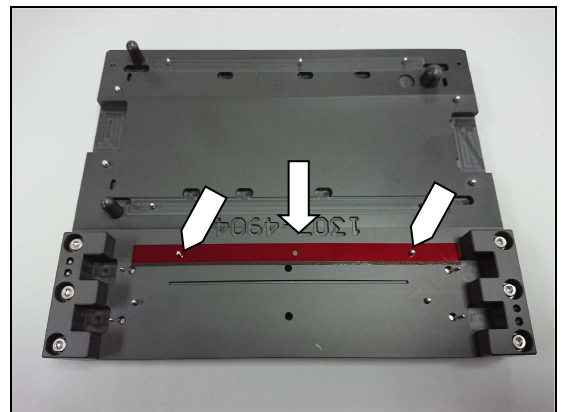
## Reassembly

Mount the Key Power\_Volume onto its proper position as shown in picture.

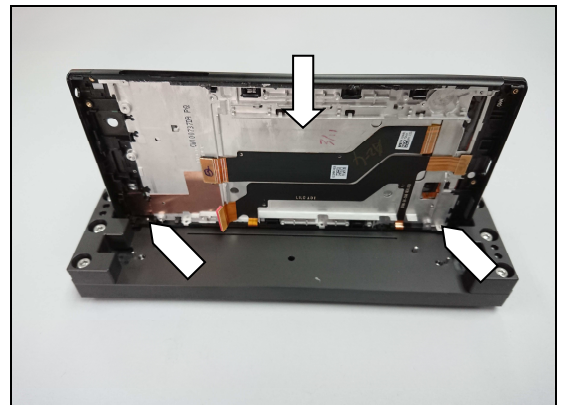


### 5.4.2 Adhesive LCM Right Side and Side Panel Right

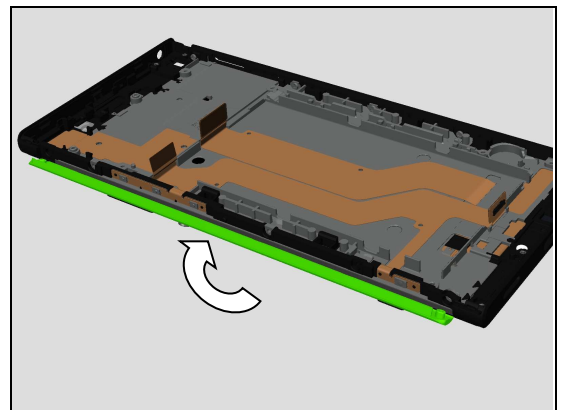
Mount the Adhesive LCM Right Side onto its proper position of the Panels Adhesive Fixture as shown in picture.



Press to attach the Adhesive LCM Right Side onto Display Cover Assy as shown in picture.

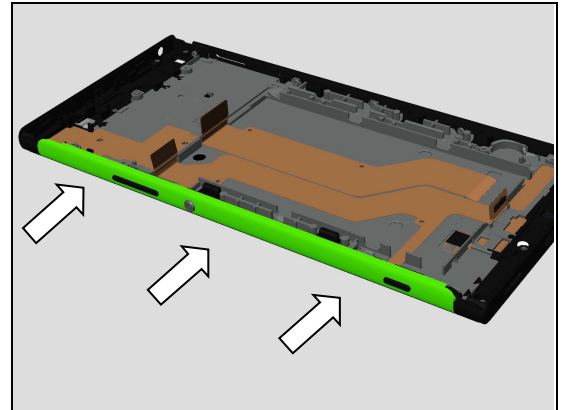


Mount the Side Panel Right as shown in picture.

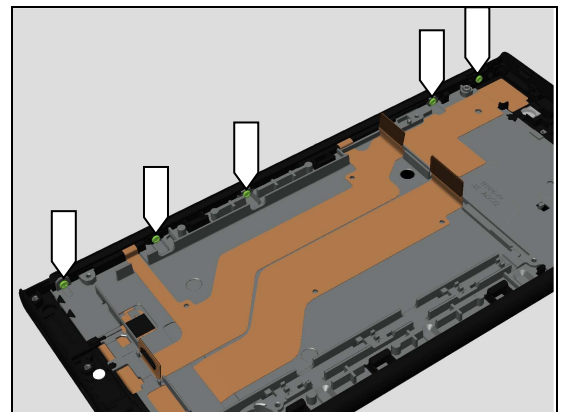


## Reassembly

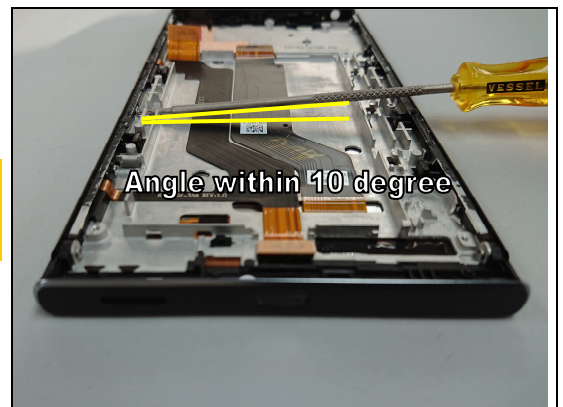
Then press the Side Panel Right after mounting.



Tighten the five Screw TORX M1.2 L2.5 Silver with T5 Screwdriver.

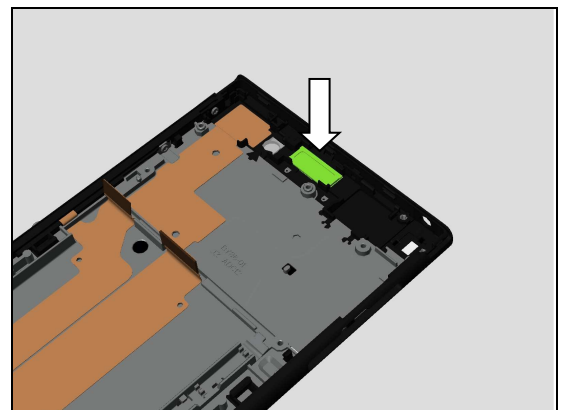


**Make sure to secure the angle between Screwdriver bit and front cover within 10 degree when tightening the screws.**



### 5.5 Adhesive Ear Speaker and Ear Speaker

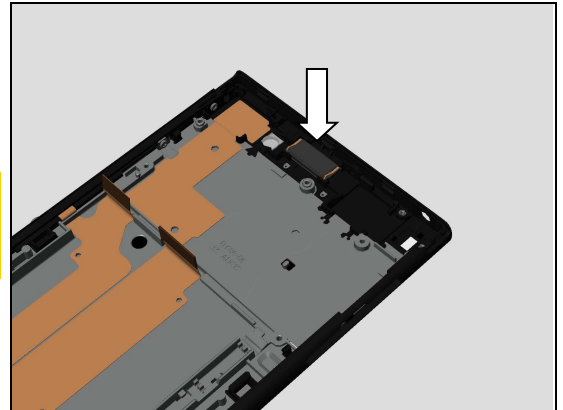
Attach a new Adhesive Ear Speaker into its cavity as shown in picture.



## Reassembly

Mount a new Ear Speaker in its cavity and press it.

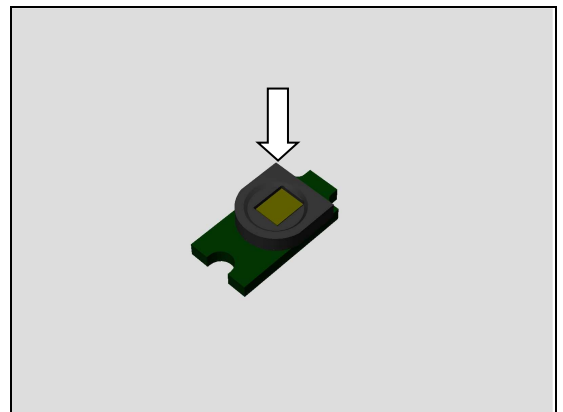
**Note the correct orientation of the Ear Speaker contact springs to be installed as shown in picture!**  
**Be careful! Do not press contact springs when pressing.**



## 5.6 Front Flash LED PCB

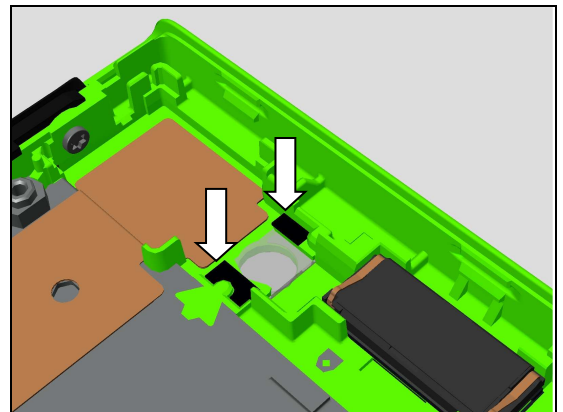
### 5.6.1 Rubber Front Flash LED

Attach a new Rubber Front Flash LED onto its proper position as shown in picture.



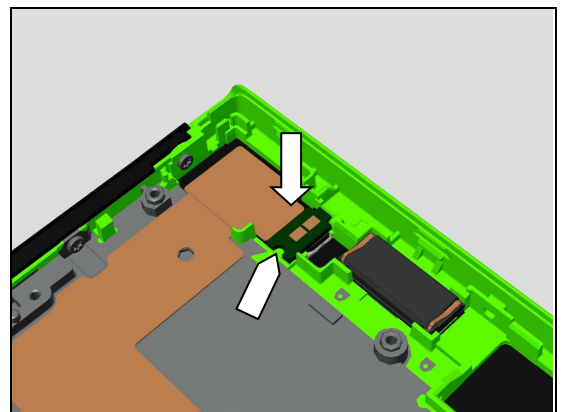
### 5.6.2 Adhesive Front Flash LED PCB

Attach a new Adhesive Front Flash LED PCB onto its proper position as shown in picture.



### 5.6.3 Front Flash LED PCB

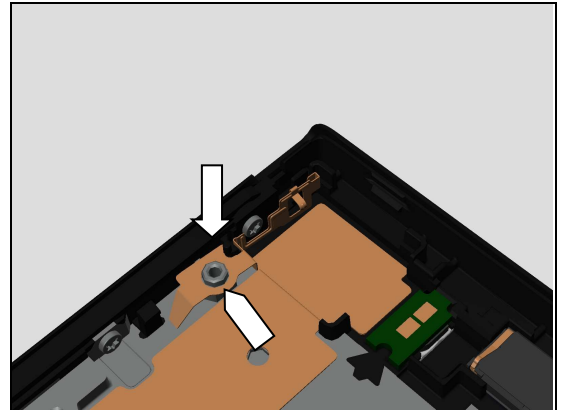
Attach the Front Flash LED PCB onto its proper position as shown in picture and press it.



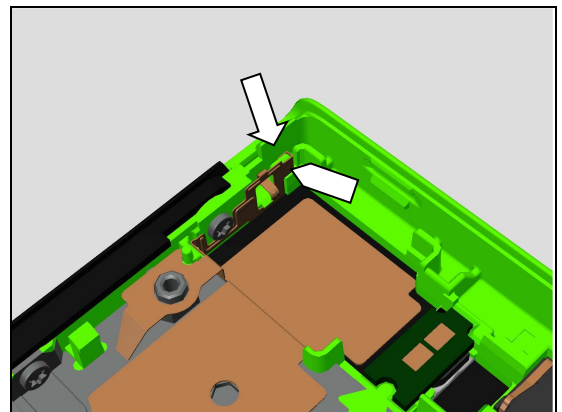
## Reassembly

### 5.7 Bracket Main Camera

Mount this side of the Bracket Main Camera in its proper position by using plastic tweezers as shown in picture.

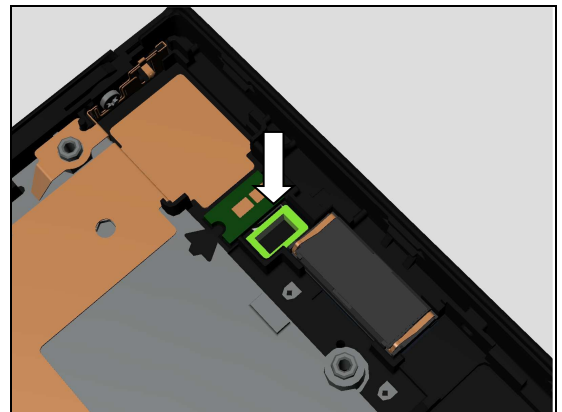


Then mount the other side of the Bracket Main Camera by using plastic tweezers as shown in picture.



### 5.8 Rubber PL Sensor

Mount the Rubber PL Sensor into its cavity.

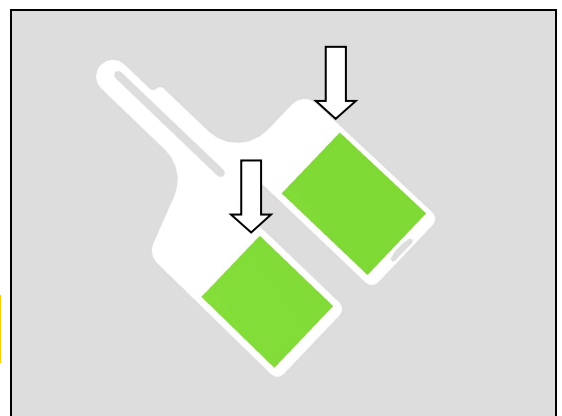


### 5.9 CU Label Tray

#### 5.9.1 CU Label

Attach a new CU Label onto its proper position as shown in picture.

**Note! New CU Label have to be replaced only when board swap.**

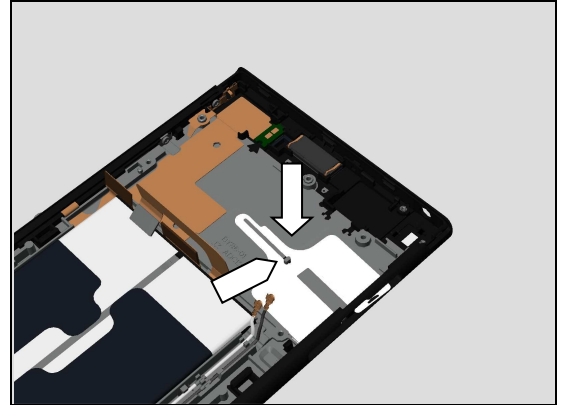




## Reassembly

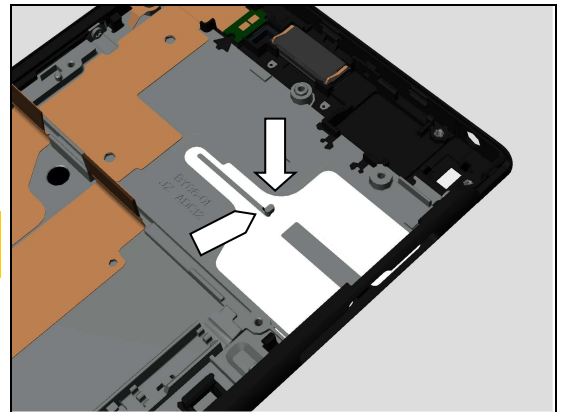
### 5.9.2 CU Label Tray

Mount the position pin into the slot of the CU Label Tray as shown in picture.



Mount the CU Label Tray onto its proper position as shown in picture.

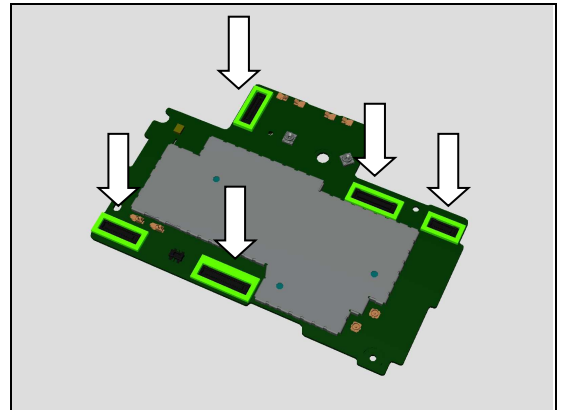
**Note the correct position of the position pin in the CU Label Tray slot!**



### 5.10 Main PBA

#### 5.10.1 Rubber BTB Audio Jack, Rubber BTB Front Camera, Rubber BTB LCM and Rubber BTB Main Camera

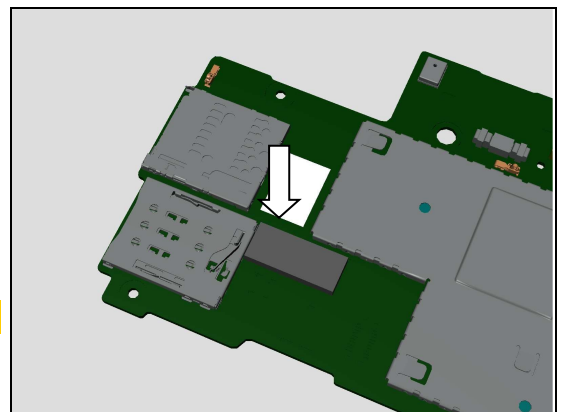
Attach new Rubber BTB onto its proper position as shown in picture.



#### 5.10.2 Sponge Main PBA Single SIM (G3221,G3223)

Attach a new Sponge Main PBA Single SIM onto its proper position as shown in picture.

**This is only for G3221,G3223!**



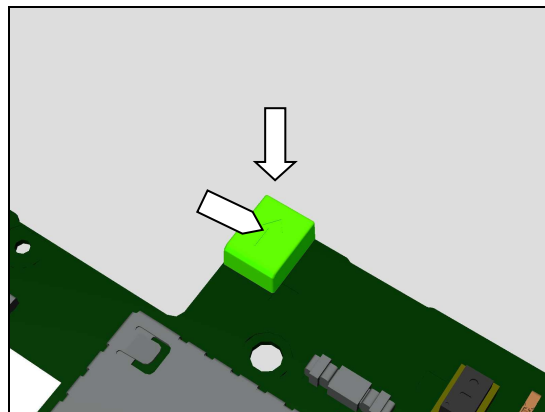


## Reassembly

### 5.10.3 Rubber 2nd MIC

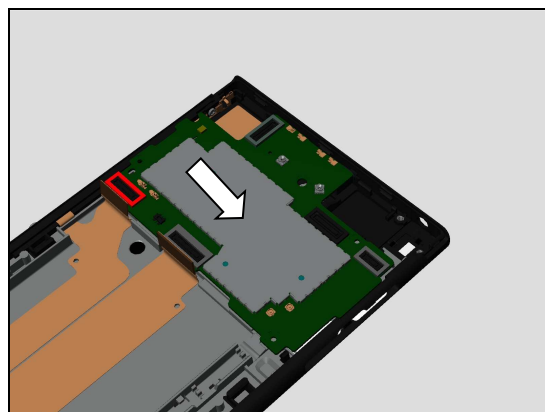
Attach a new Rubber 2nd MIC onto its proper position as shown in picture.

**Note the correct orientation of the Rubber 2nd MIC to be installed as shown in picture!**

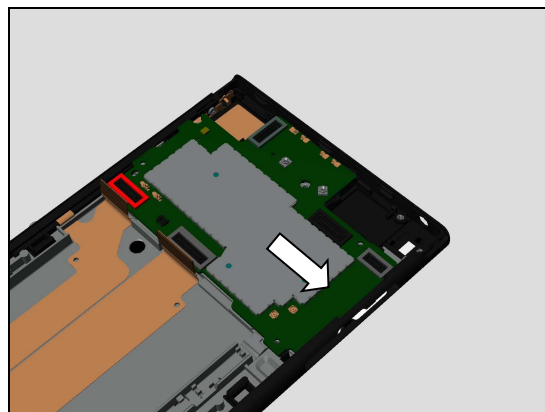


### 5.10.4 Main PBA

Align the Main PBA with SIM/SD hole as shown in picture.



Insert to mount the Main PBA into the SIM/SD hole as shown in picture.

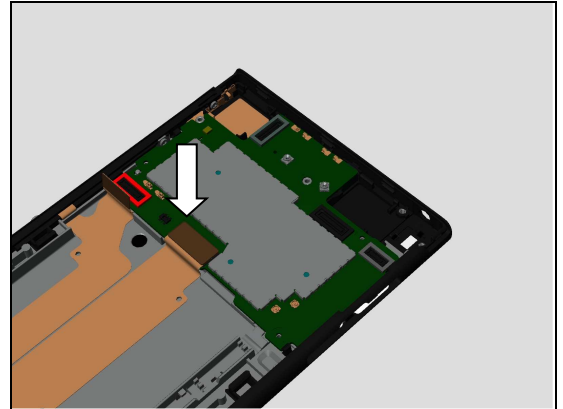


Press to snap the Main PBA.

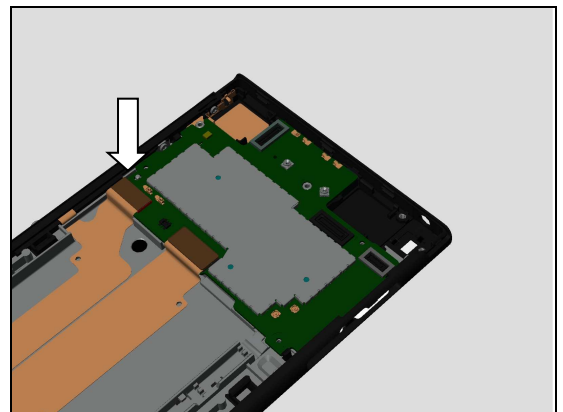


## Reassembly

Press to snap the BtB connector of Display.



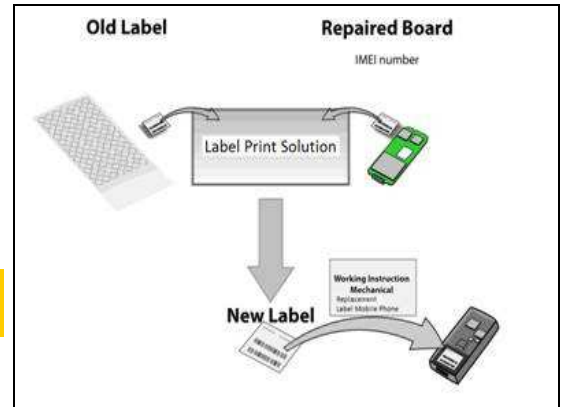
Press to snap the BtB connector of the Sidekey FPC Assy.



### BOARD SWAP – CHANGE LABEL

Follow the instructions in the Generic Repair Manual – Build swap for change of label.

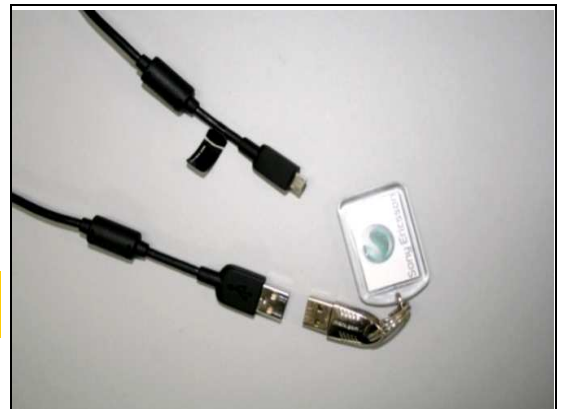
**Note! CU Label have to be replaced only when board swap.**



### Board Swap – Customize of Software

Follow the instructions in the Generic Repair Manual – Build swap for customization of the software.

**Note! Customize of Software have to be performed only when board swap.**

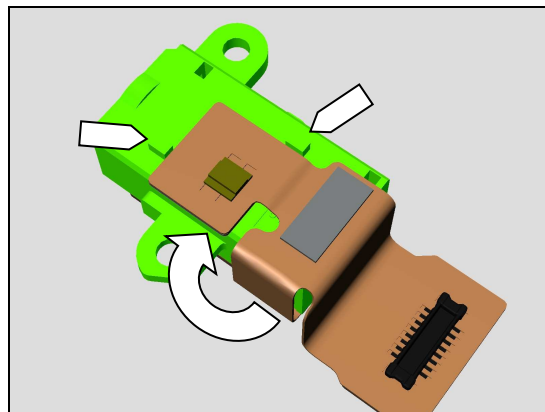


## Reassembly

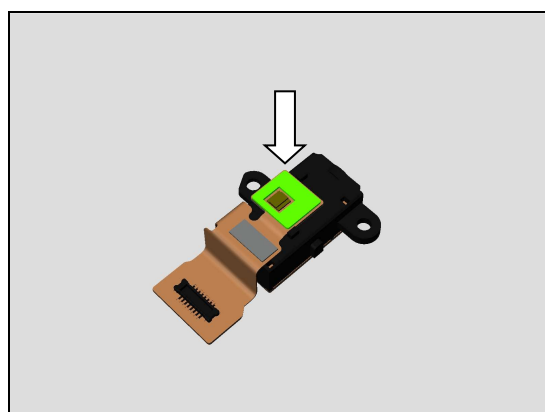
### 5.11 Audio Jack FPC Assy

#### 5.11.1 Sponge Notification LED

In case replace a new Audio Jack FPC Assy, firstly fold and attach the FPC onto its proper position as shown in picture.

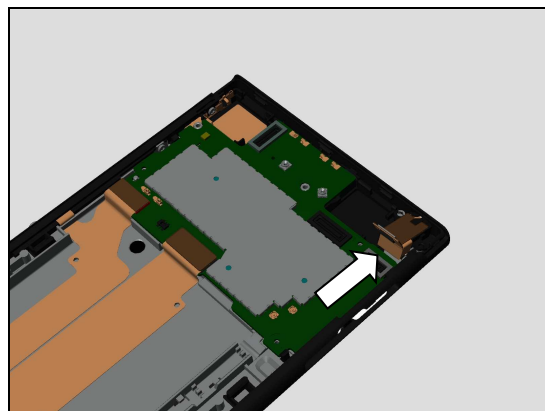


Attach a new Sponge Notification LED onto its proper position as shown in picture.

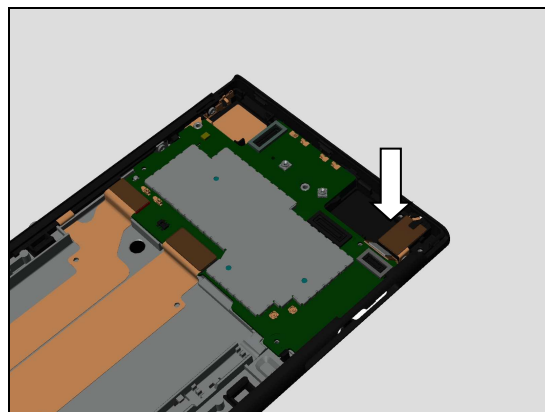


#### 5.11.2 Audio Jack FPC Assy

Insert to mount the Audio Jack FPC Assy into its hole as shown in picture.

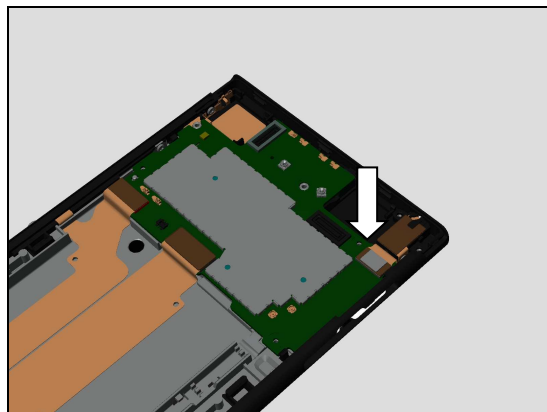


Mount the Audio Jack FPC Assy into its proper position.

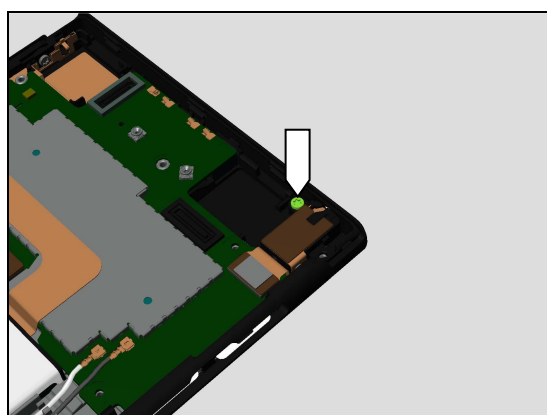


## Reassembly

Press to snap the BtB connector of the Audio Jack FPC Assy.



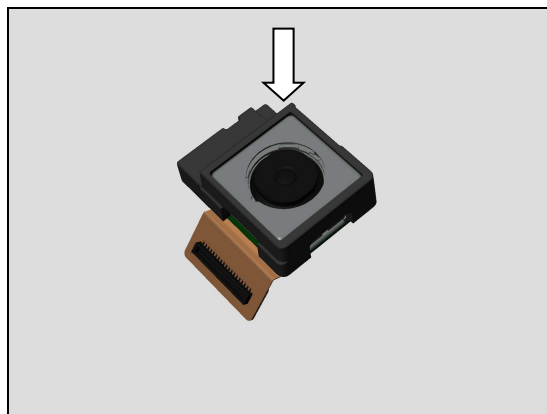
Apply 8Ncm torque when tightening the Screw TORX M1.2 L2.5 Silver with Bits T5.



## 5.12 Front Camera

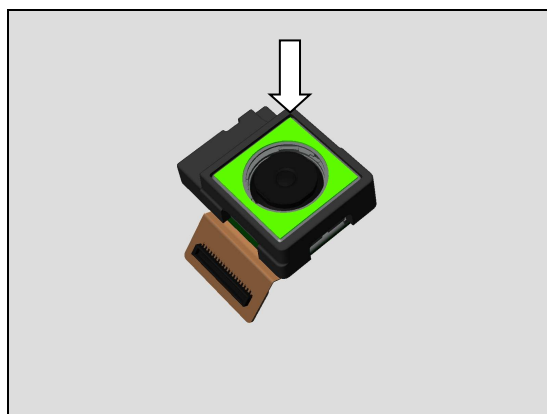
### 5.12.1 Rubber Front Camera

Mount the Rubber Front Camera as shown in picture.



### 5.12.2 Adhesive Front Camera

Attach a new Adhesive Front Camera onto its proper position as shown in picture.

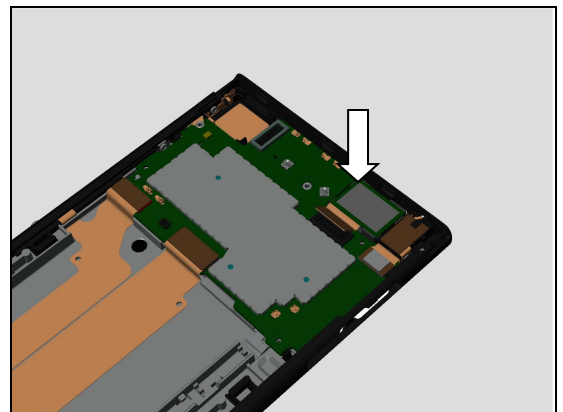


## Reassembly

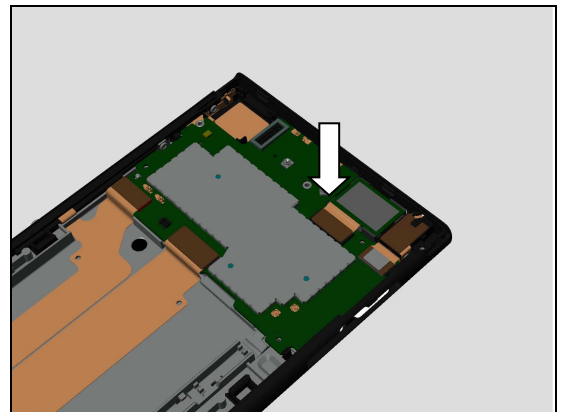
**The Adhesive Front Camera must not block this part as the arrow indicated after attachment.**

### 5.12.3 Front Camera

Mount the Front Camera into its cavity and press it by fingers



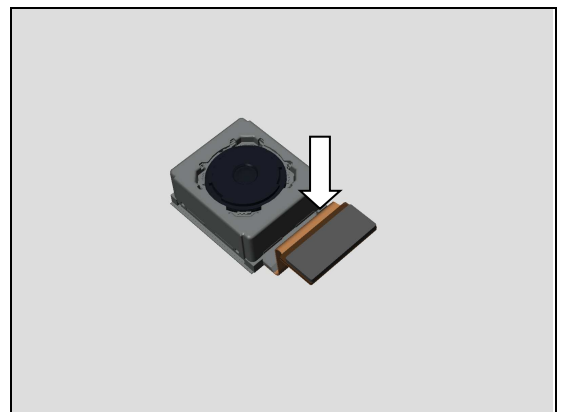
Press to snap the BtB connector of the Front Camera.



### 5.13 Main Camera

#### 5.13.1 Sponge BTB Main Camera

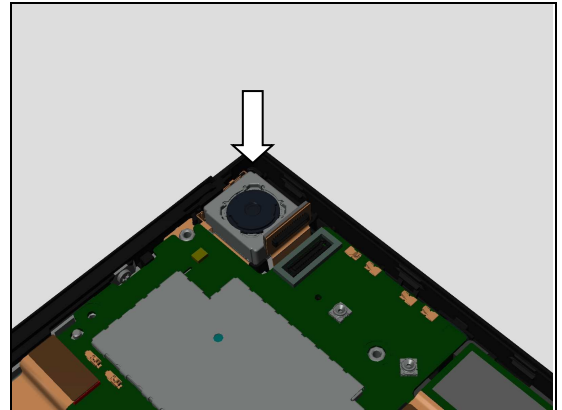
Attach a new Sponge BTB Main Camera onto its proper position as shown in picture.



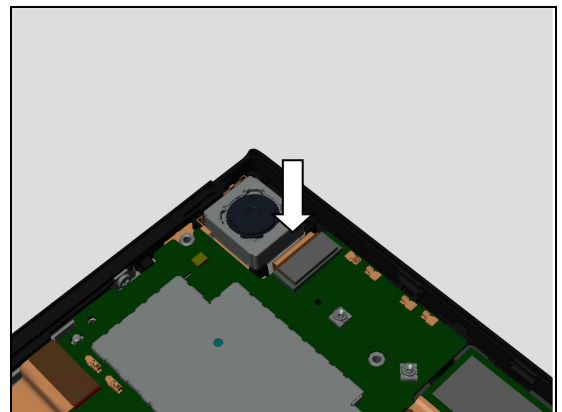
## Reassembly

### 5.13.2 Main Camera

Mount the Main Camera into its cavity.

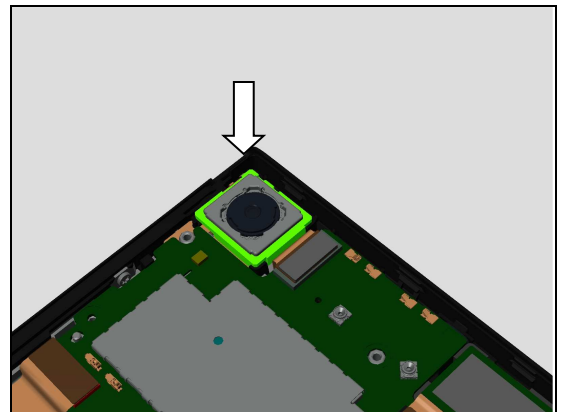


Press to snap the BtB connector of the Main Camera.



### 5.13.3 Rubber Main Camera

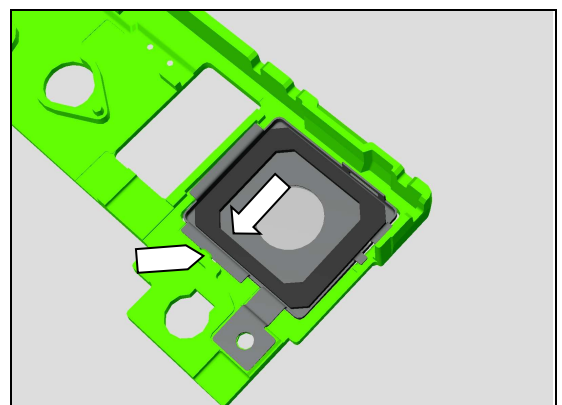
Mount the Rubber Main Camera onto its proper position as shown in picture.



## 5.14 Sub Antenna

### 5.14.1 Main Camera Lens Assy

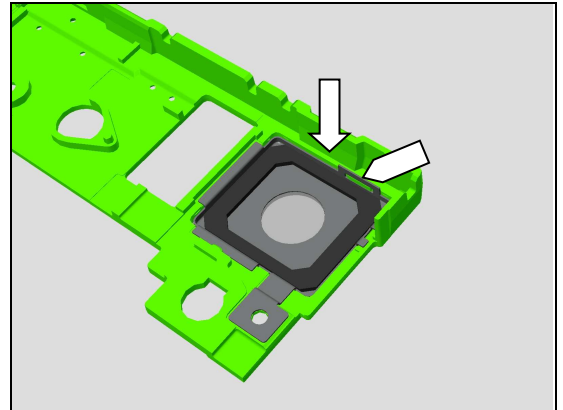
Insert to mount the Main Camera Lens Assy under this small rib as shown in picture.





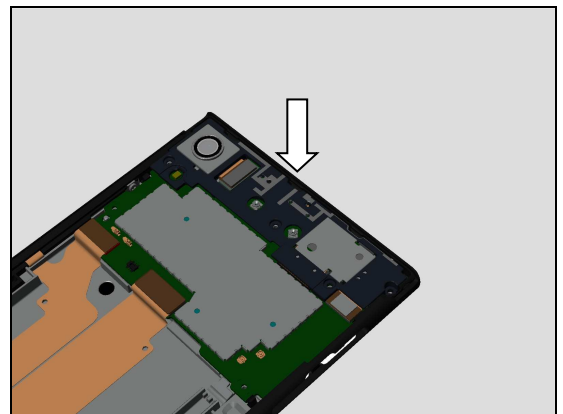
## Reassembly

Press to snap the Main Camera Lens Assy onto the Sub Antenna as shown in picture.

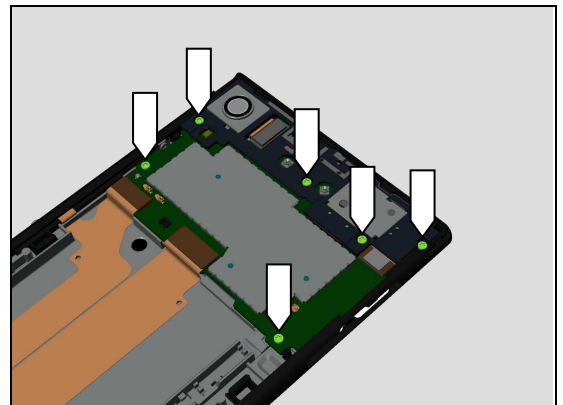


### 5.14.2 Sub Antenna

Mount the Sub Antenna into its proper position as shown in picture and press to snap it.



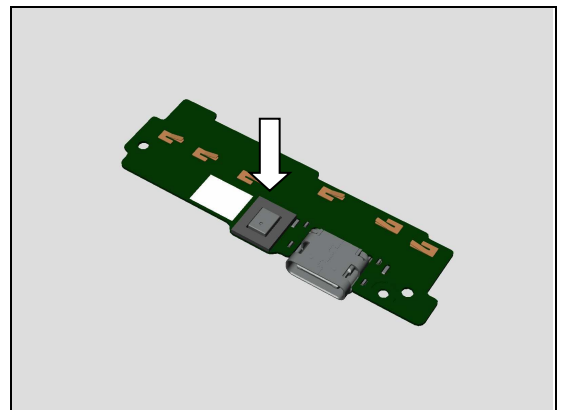
Apply 8Ncm torque when tightening the six Screw TORX M1.2 L2.5 Silver with Bits T5.



### 5.15 Sub PBA Assy

#### 5.15.1 Sponge 1st Mic

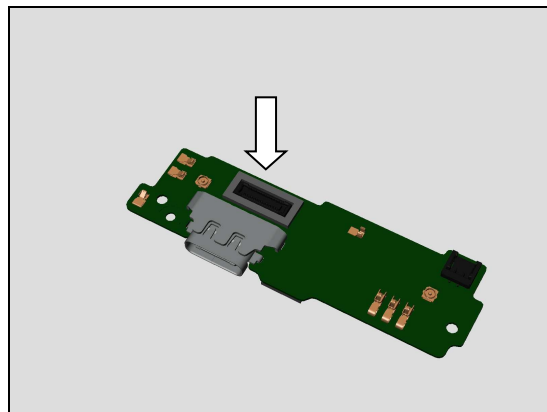
Attach a new Sponge 1st Mic in its proper position as shown in picture.



## Reassembly

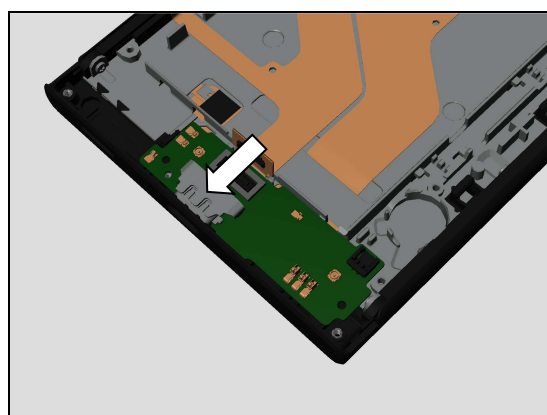
### 5.15.2 Rubber BTB Sub PBA

Attach a new Rubber BTB Sub PBA as shown in picture.

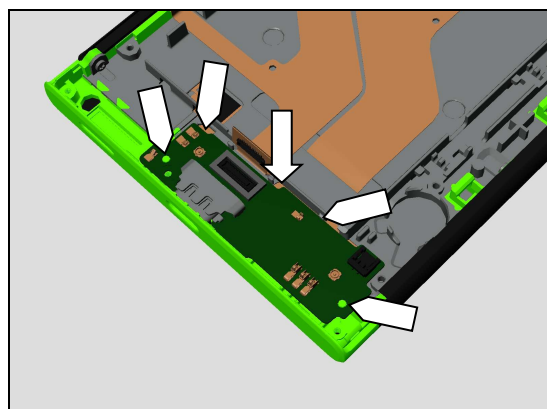


### 5.15.3 Sub PBA Assy

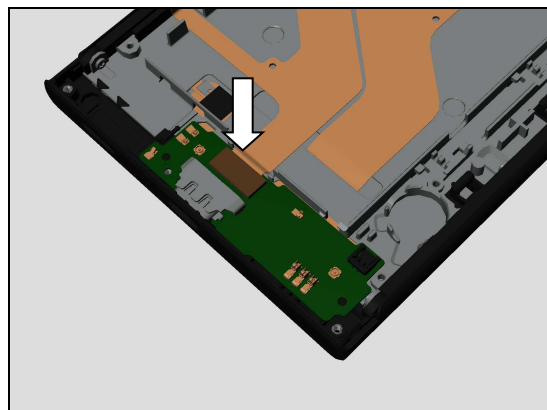
Insert to mount the Sub PBA Assy into USB hole as shown in picture.



Press to snap the Sub PBA Assy into its proper position as shown in picture.



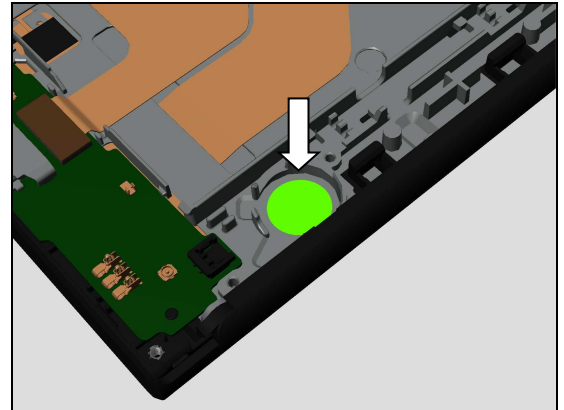
Press to snap the BtB connector of the Sidekey FPC Assy.



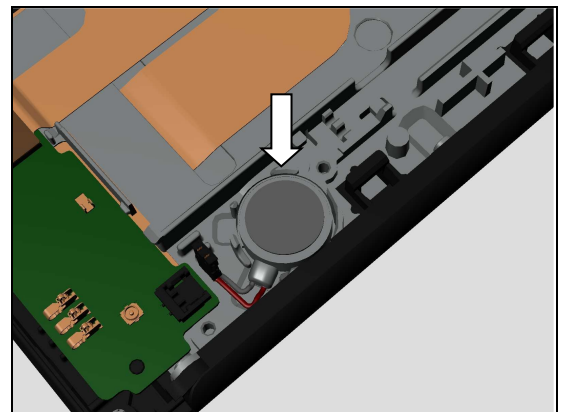
## Reassembly

### 5.16 Adhesive Vibrator and Vibrator

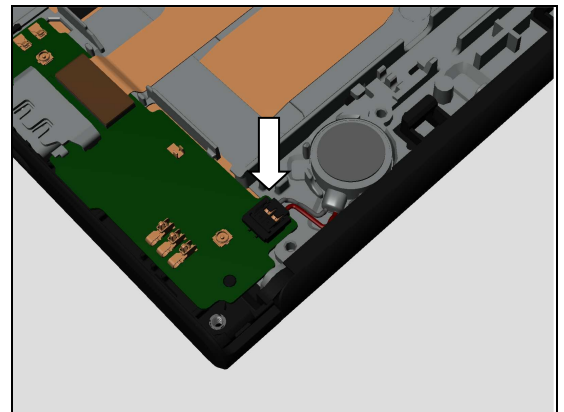
Attach a new Adhesive Vibrator as shown in picture.



Mount the Vibrator into its cavity as shown in picture and press it.



Press to snap the Vibrator connector.

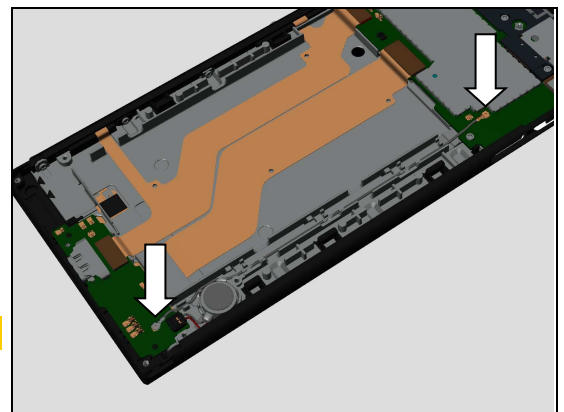


### 5.17 RF Cable

#### 5.17.1 RF Cable Black and RF Cable White (G3221,G3223,G3226)

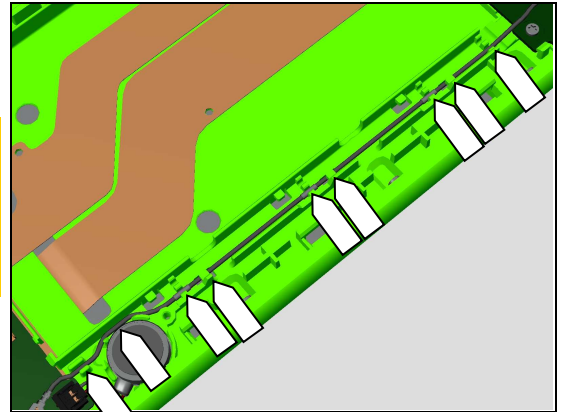
Press to snap the RF Cable Black connectors.

***This is only for G3221,G3223,G3226!***



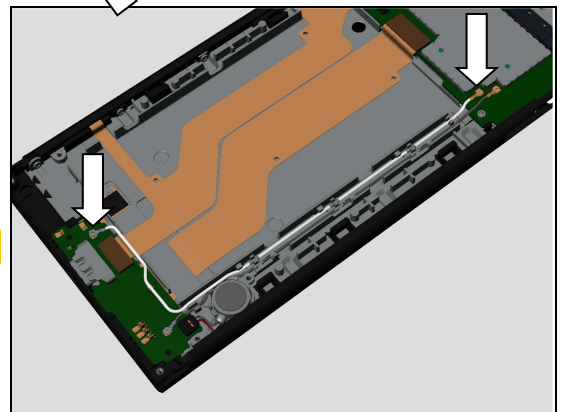
## Reassembly

***This is only for G3221,G3223,G3226!***  
***Make sure the RF Cable Black is mounted into its cavity as shown in picture.***  
***Make sure the three metal rings contact to the front cover.***

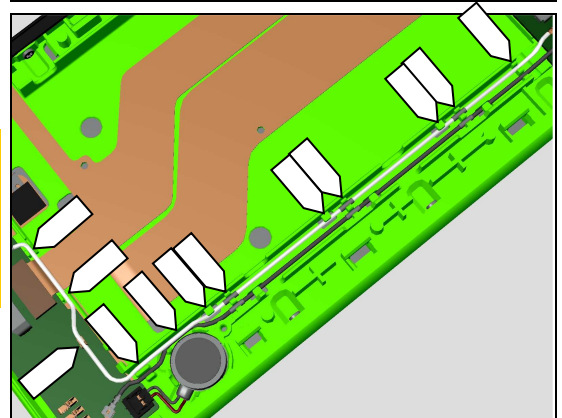


Press to snap the RF Cable White connectors.

***This is only for G3221,G3223,G3226!***



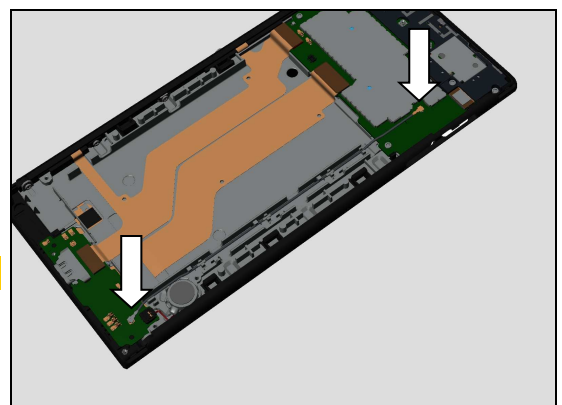
***This is only for G3221,G3223,G3226!***  
***Make sure the RF Cable White is mounted into its cavity as shown in picture.***  
***Make sure the three metal rings contact to the front cover.***



### 5.17.2 RF Cable Grey (G3212)

Press to snap the RF Cable Grey connectors.

***This is only for G3212!***

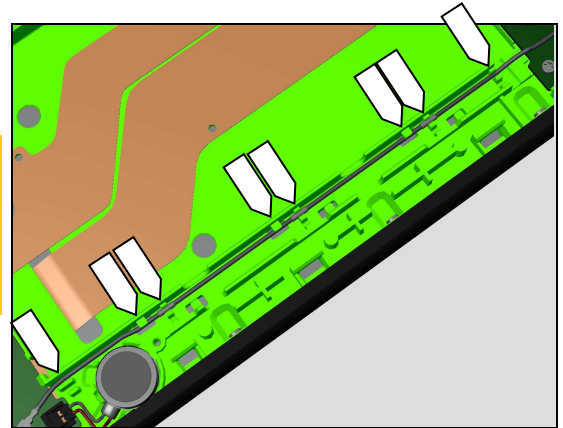


## Reassembly

***This is only for G3212!***

***Make sure the RF Cable Grey is mounted into its cavity as shown in picture.***

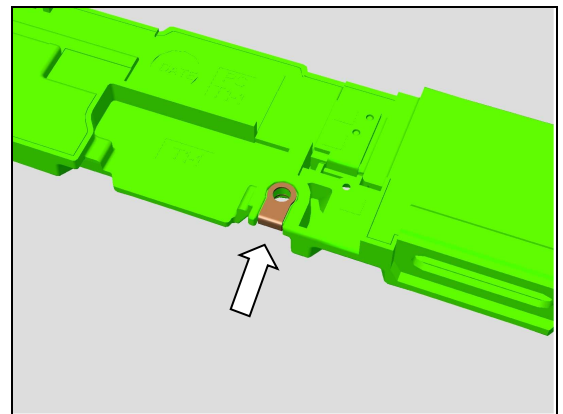
***Make sure the three metal rings contact to the front cover.***



### 5.18 Main Antenna Speaker Box

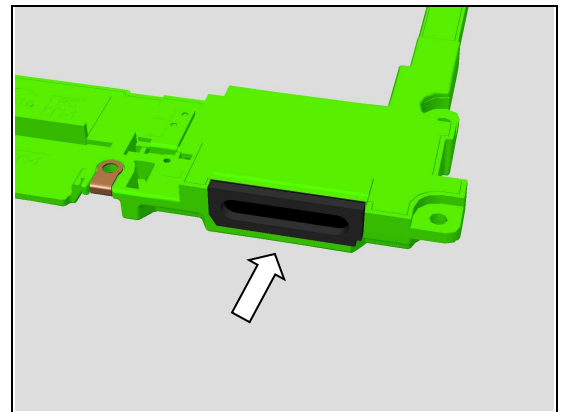
#### 5.18.1 Contact Clip Speaker Box

Insert to mount the Contact Clip Speaker Box as shown in picture.



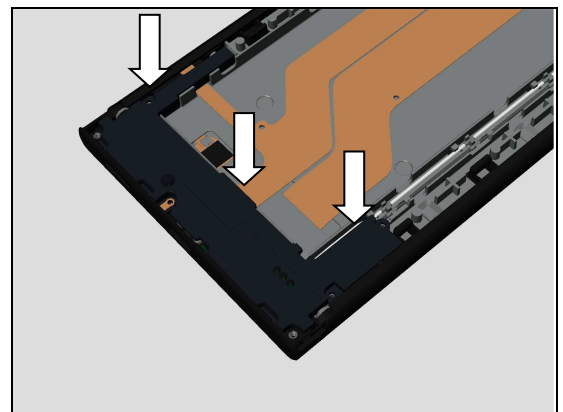
#### 5.18.2 Speaker Sponge

Attach a new Speaker Sponge onto its proper position as shown in picture.



#### 5.18.3 Main Antenna Speaker Box

Mount the Main Antenna Speaker Box to its proper position and press to snap it.



## Reassembly

Apply 8Ncm torque when tightening the five Screw TORX M1.2 L2.5 Silver with Bits T5.

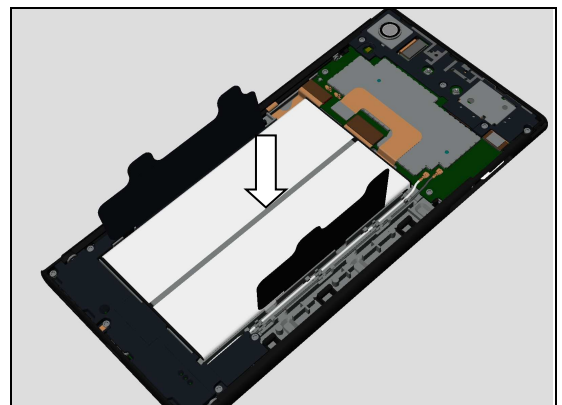
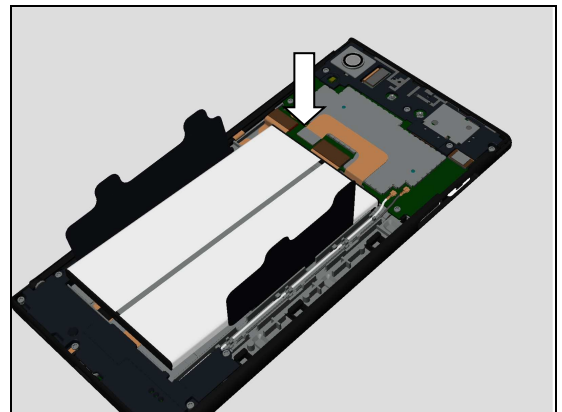
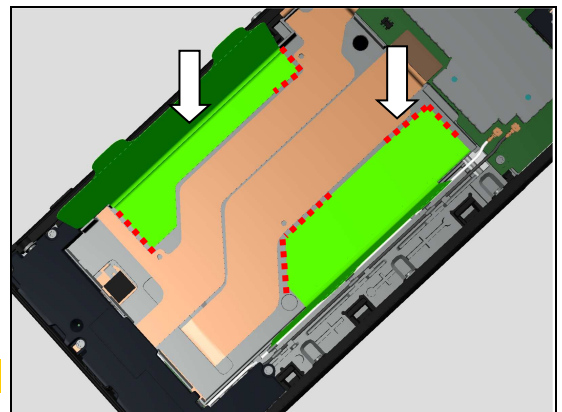
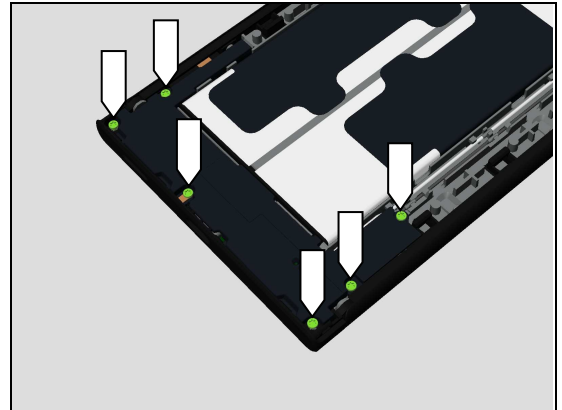
### 5.19 Battery, Film Mylar Battery Left and Film Mylar Battery Right

Attach a new Film Mylar Battery Left and Film Mylar Battery Right onto its proper position in alignment with the guiding lines as shown in picture.

**Do not attach the Film Mylar Battery onto the FPC.**

Firstly press to snap the Battery connector.

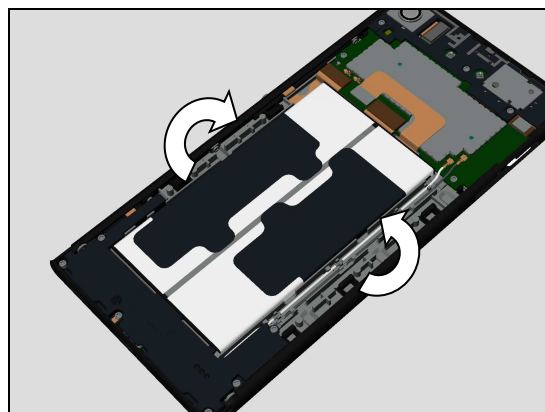
Then mount the Battery into its cavity.





## Reassembly

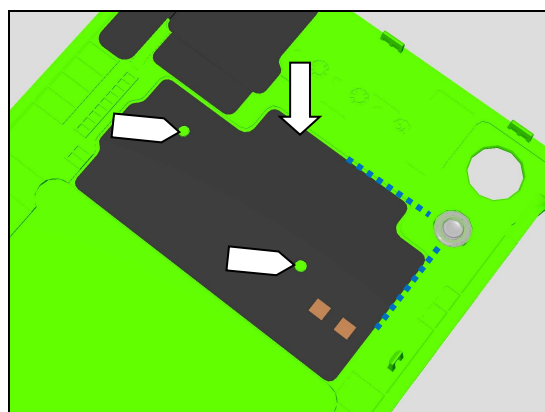
Attach the mylars onto the Battery as shown in picture.



### 5.20 Battery Cover Assy

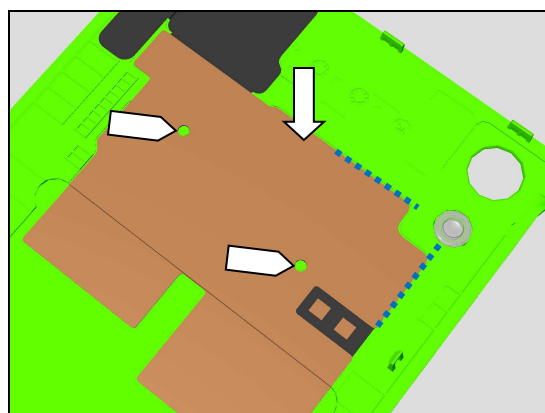
#### 5.20.1 NFC Antenna

Attach a new NFC Antenna in alignment with the guiding lines and pins on the Battery Cover Assy.



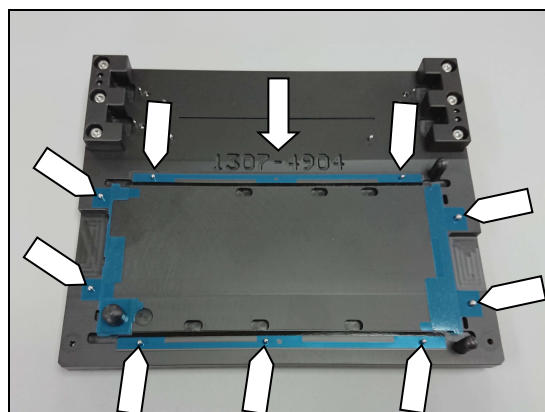
#### 5.20.2 Copper Foil Battery Cover

Attach a new Copper Foil Battery Cover in alignment with the guiding lines and pins on the Battery Cover Assy.



#### 5.20.3 Adhesive Battery Cover Top, Adhesive Battery Cover Bottom, Adhesive Battery Cover Left and Adhesive Battery Cover Right

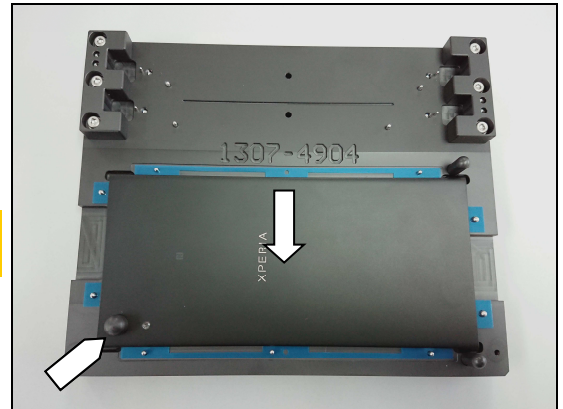
Mount a new Adhesive Battery Cover Top, Adhesive Battery Cover Bottom, Adhesive Battery Cover Left and Adhesive Battery Cover Right onto the Panels Adhesive Fixture as shown in picture.



## Reassembly

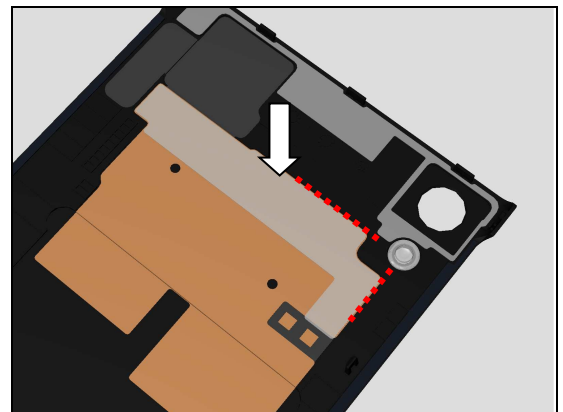
Mount the Battery Cover Assy onto the Panels Adhesive Fixture, then press the adhesive area to attach the adhesive.

***Make sure all remaining adhesive residue on the Battery Cover Assy have been removed before attaching!***



### 5.20.4 Adhesive NFC

Attach a new Adhesive NFC in alignment with the shape of the Copper Foil Battery Cover.



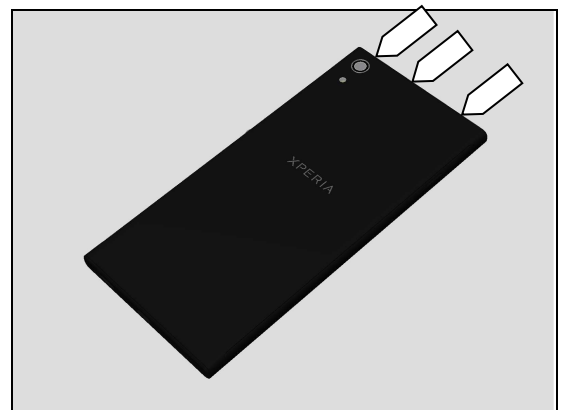
### 5.20.5 Battery Cover Assy

***Make sure all remaining adhesive residue on the Display Cover Assy have been removed before assembly!***

Mount the Battery Cover Assy from top side.

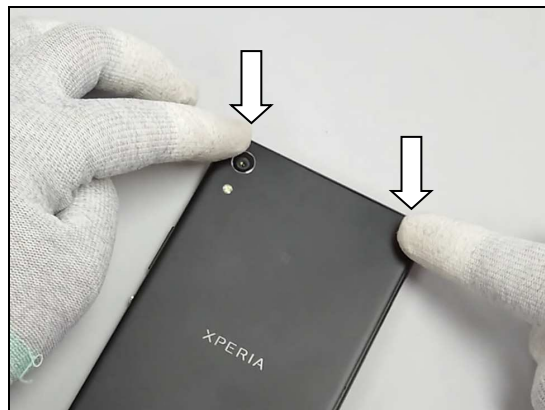


Press to snap the hooks on top side.  
Secure the hooks on top side snapped.

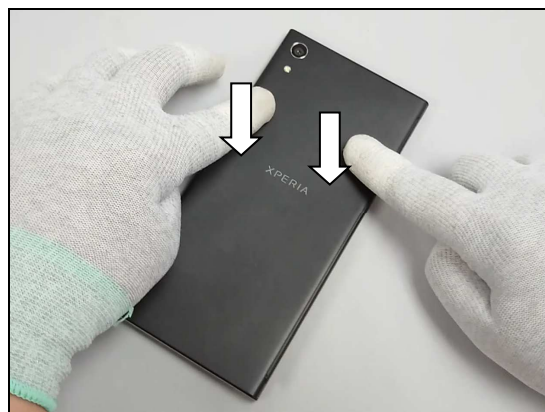


## Reassembly

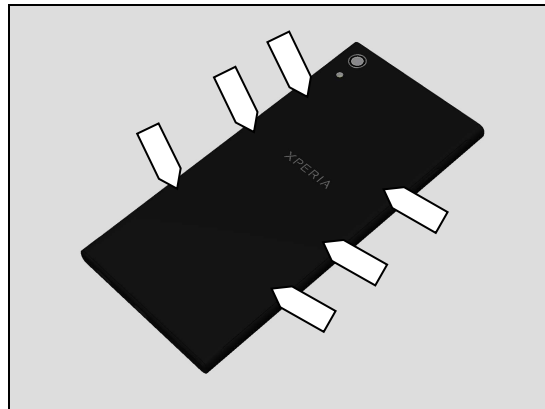
Press to snap the two top corner hooks.



Press from top to bottom side to snap the six hooks under the Battery Cover Assy.



Secure the six hooks snapped.

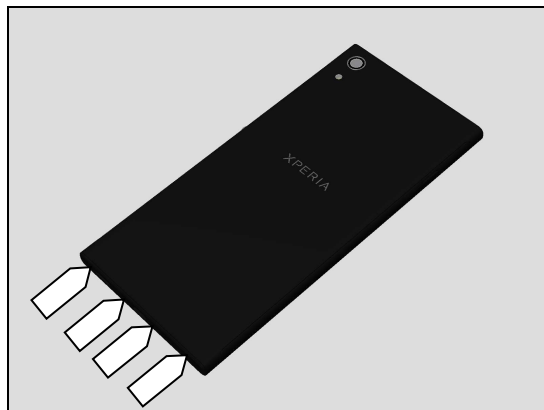


Press to snap the hooks on bottom side.



## Reassembly

Secure the hooks on bottom side snapped.

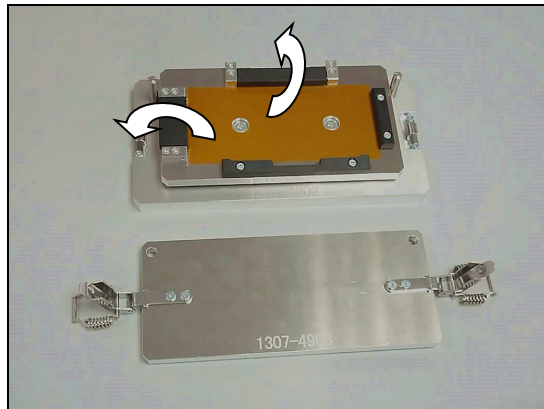


Press to snap the two bottom corner hooks.

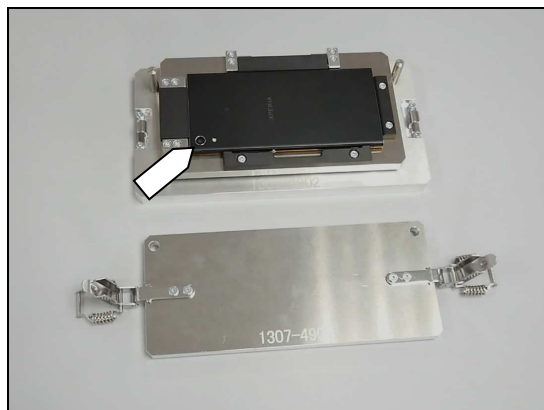


Prepare Rear Cover Press tool Bottom and Rear Cover Press Top.

***Make sure the two black position block turned to the proper position for G32 use.***



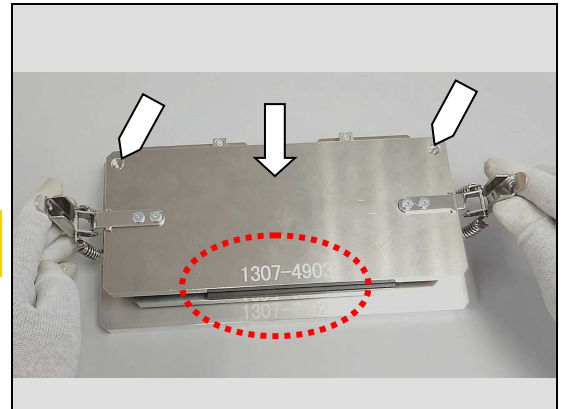
Mount the phone in its proper direction in the cavity as shown in picture.



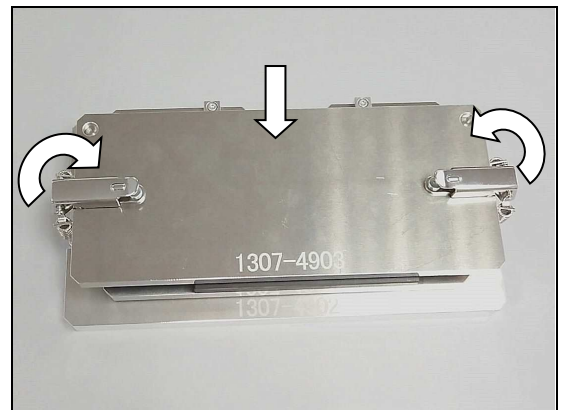
## Reassembly

Mount the Rear Cover Press Top in its proper position by using position pins and holes.

**Note! The part numbers on the Rear Cover Press Top and Rear Cover Press tool Bottom in the same direction.**



Lock the Rear Cover Press Top to press the Battery Cover Assy for 1 minute.



Press the Adhesive NFC area by using the Press Clamp for 10 seconds.

**Note of how to use the Press Clamp:**

1. Insert the phone to the bottom.
2. The smaller press pad is used for pressing the Adhesive NFC area.
3. Align the Press Clamp in the center of the phone as shown in picture.

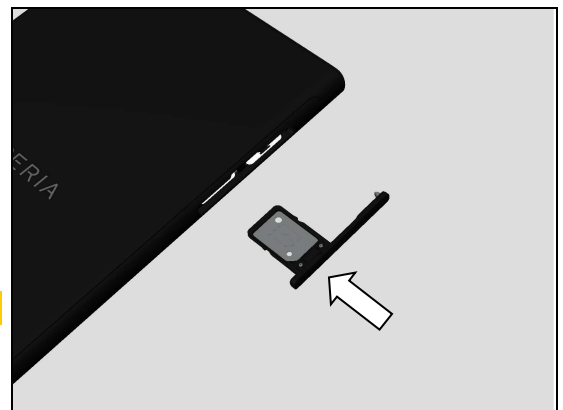


## 5.21 Cap Tray

### 5.21.1 Cap Tray Single (G3221,G3223)

Insert the Cap Tray Single.

**This is only for G3221,G3223!**

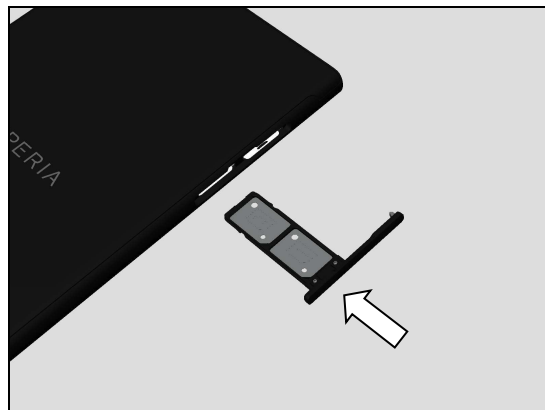


## Reassembly

### 5.21.2Cap Tray Dual (G3212,G3226)

Insert the Cap Tray Dual.

***This is only for G3212,G3226!***





## 6 Battery Reuse Instruction

**If you intend to reuse the Battery, carefully follow the Battery Reuse Instruction.  
If it is failed, Don't reuse, and Scrap the Battery.**

### 6.1 Battery Handling Notices

1. Don't damage the battery foil with sharp objects.
2. Don't twist or deform the battery.
3. If the battery is dropped, don't reuse, and scrap.
4. Hold the battery at the frame edges of battery (green circled portion).



### 6.2 Dot Mark Check

**Check if the Battery (which has been removed from the unit) has blue/red or black/red dots marking.**

**Do not reuse, if the Battery has two (2) red dots marking, and scrap it.**

**Blue and black dot indicates Battery had been removed from the unit, and red dot indicates Battery had been reinstalled (reused).**

**Scrap! If the battery has two (2) red dots marking, it can't be reused for third times.**

Can be reused



Can't be reused → Scrap



### 6.3 Dot Marking 1

**If no dot marking on the Battery, put black dot marking with permanent pen.**



## Battery Reuse Instruction

### 6.4 Appearance Check

**Check if any damages on the battery such as Winkle, Bubble, Dent, Floating up the AL sheet, Twist, and/ or Line.**

**If it is out of below specification, do not reuse, and scrap the battery.**

Item of Damage	Limit of size	Limit of quantity
Winkle	Length $\leq 5\text{mm}$	1 wrinkle per Al sheet
Mark	No mark is allowed.	
Bubble	Diameter $\leq \Phi 2\text{mm}$	3 bubble per Al sheet
Dent	Diameter $\leq \Phi 2\text{mm}$	3 dents per surface
Scratch	Scratch is allowed as far as printed characters are visible.	
Lift up Al Sheet	No lifting up of the Al sheet is allowed.	
Twist	Twist line is allowed.	
Line	No line is allowed.	

### Definition of Damages and Sample Pictures

#### Wrinkle:

A slight line or fold on label or tape of the battery.



#### Mark:

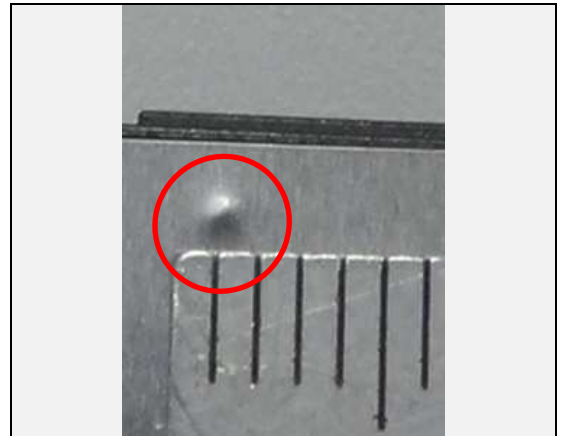
Surface is bulged as lined by foreign material is located between Al sheet and battery cell housing.



## Battery Reuse Instruction

### Bubble:

Surface is bulged as pointed by foreign material is located between Al sheet and battery cell housing.



### Dent:

It is caused that is stuck by sharp pointed objects.



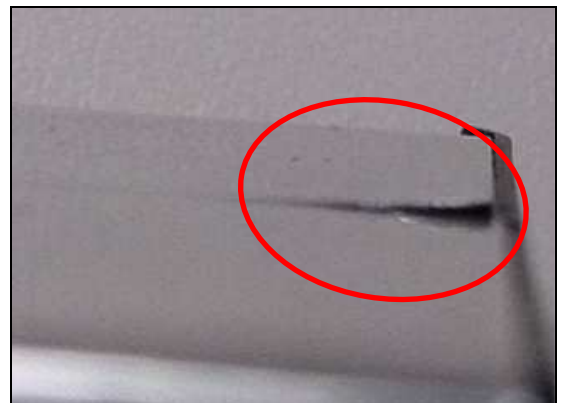
### Scratch:

It is caused that scratched by sharp edge/pointed objects.



### Lift up Al Sheet:

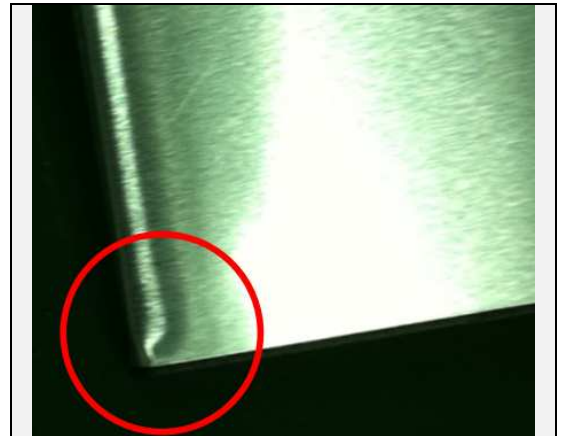
The edge of Al sheet is lifted caused by improper handling.



## Battery Reuse Instruction

### Twist:

Twisting line locates at the corner of battery pack that is created during Al sheet wrapping.



### Line:

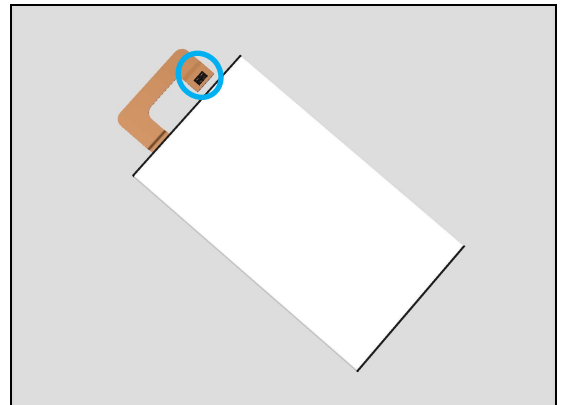
A slight line located at the border of battery cell and frame.



## 6.5 BtB Connector Check

Check if BtB connector has damages.

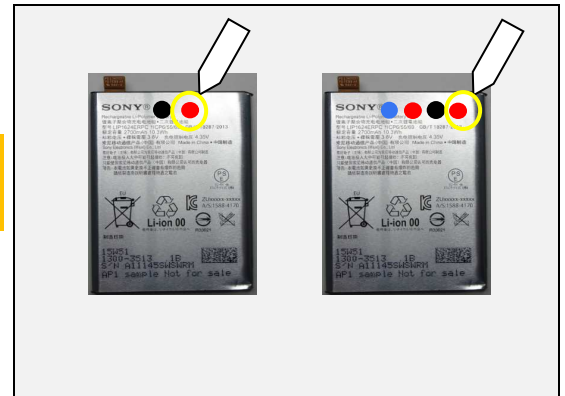
If any damages on the BtB connector, do not reuse, and scrap the battery.



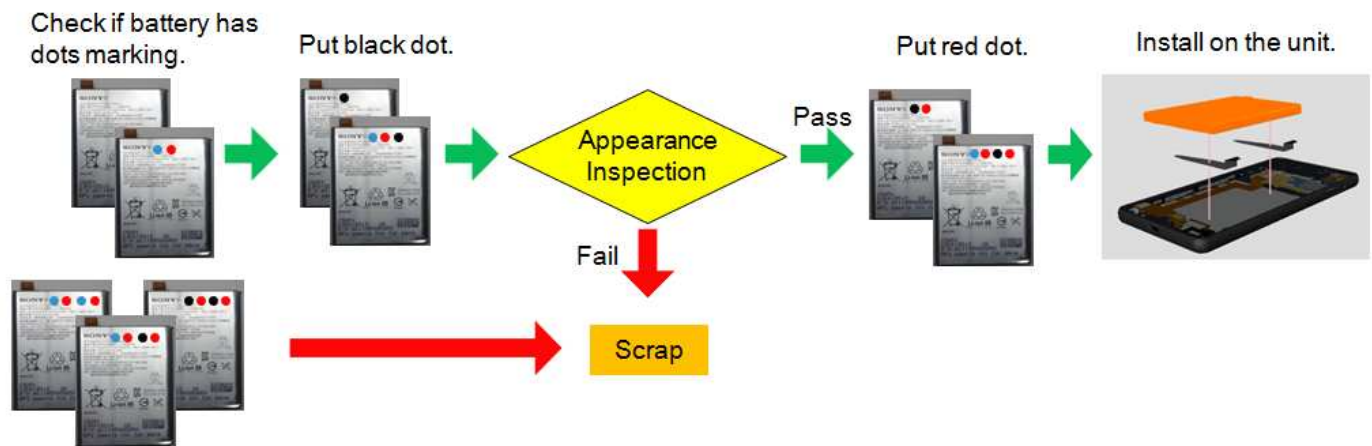
## Battery Reuse Instruction

### 6.6 Dot Marking 2

**If no failure has been detected by above appearance check, put the red dot marking on the Battery with permanent pen for reinstalling (reuse).**



#### Overall procedure for Battery Reusing



## 7 Revision History

Rev.	Date	Changes / Comments
1	2017-Apr-28	Initial release
2	2017-May-08	Updated calibration note Updated reassembly replacement target table Updated chapter 4.2.1