

Working Instructions

- mechanical -



Xperia™ Z5
Premium
E6853

Xperia™ Z5
Premium Dual
E6833, E6883

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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 FPC BtB connector to cut off power supply when the Panel Rear Sub Assy is disassembled.

Always finally connect the Battery FPC BtB connector before the Panel Rear Sub Assy is reassembled.

If there are no special indications of 'E6853' 'E6833' or 'E6883', E6853, E6833 and E6883 share the same repair method as common sections, whose pictures are used with E6853. 'E6833' or 'E6883' chapters or sections use E6833 pictures.

The reassembly process is not reverse order of the disassembly process because of the constraint of the Battery disassembly process. Some parts replacement do not need to disassemble the Battery, so the reference information of those parts replacement will skip the chapters of the Battery reassembly, such as 'Follow the 5.9 – 5.14 and 5.18 – 5.23 Reassembly instructions!'.

In order to make the repair time and cost saving, some parts replacement do not need to follow disassembly and reassembly orders in sequence, so the reference information of those parts replacement will skip some chapters, such as

'Follow the 3.1 – 3.2 Disassembly instructions!

Disconnect the Battery connector.

Follow the 3.7 Disassembly instructions!

Prepare a new Holder Battery.

Follow the 5.14 Reassembly instructions!

Press to snap the Battery connector.

Follow the 5.22 – 5.23 Reassembly instructions!'

And notice the pictures shown in those replacement chapters are screen shots from the repair movie which is according to the disassembly and reassembly orders, so please only focus on the removal and installation actions of those parts when referring to those pictures.

1 Exterior Views

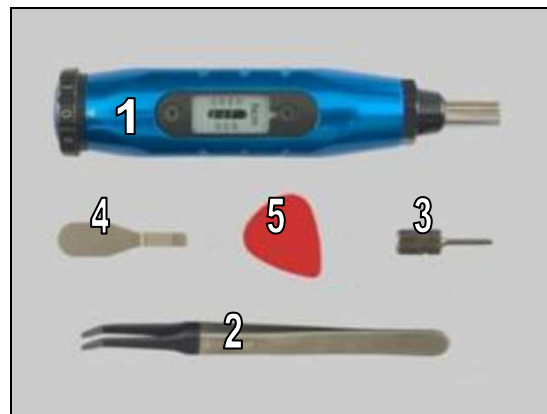
1.1 E6853/E6833/E6883



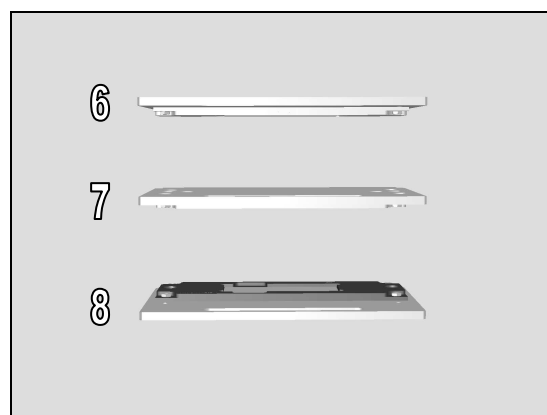
2 Tools

SPECIAL TOOLS

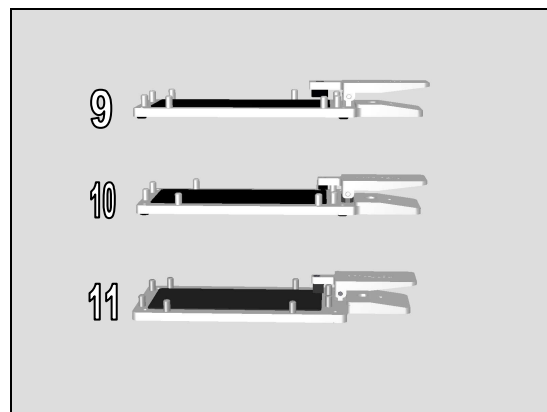
1. Torque Screwdriver
2. Flex Film Assembly Tool
3. Bits JCIS No.0
4. Front Opening Tool
5. Guitar Pick



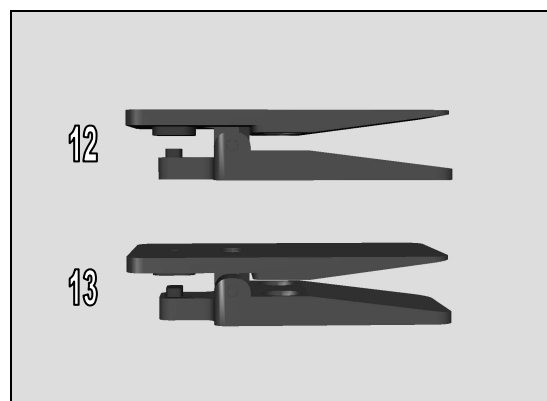
6. Rear Panel Press Top Inlay(1298-5401)
7. Battery Press Top Inlay(1298-5405)
8. Bottom Press Inlay(1298-5399)



9. Speaker Adhesive Press Clamp(1299-941)
10. Press Clamp 2nd Mic(1299-9410)
11. Press Clamp Mic (1298-5404)

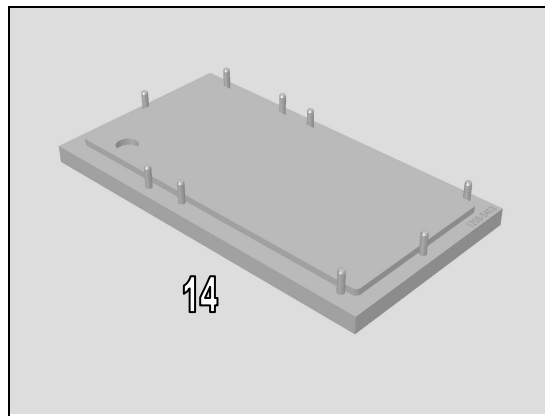


12. Press Tool for Speaker Top(1273-9551)
13. Press Tool for Speaker Bottom(1276-0030)

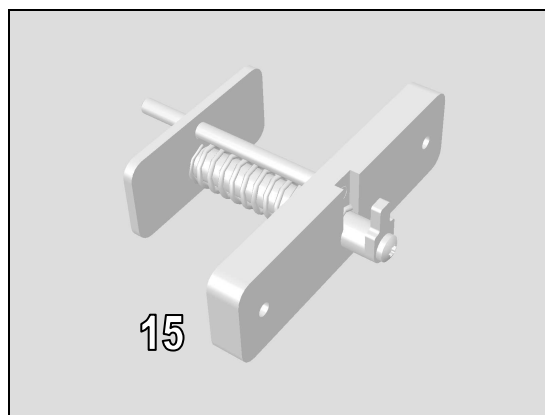


Tools

14. Rear Panel Adhesive Alignment Fixture(1298-5403)



15. FPC Jack Module Press(1297-5984)



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

Tools

STANDARD TOOLS

1. Pointed Plastic Tweezers



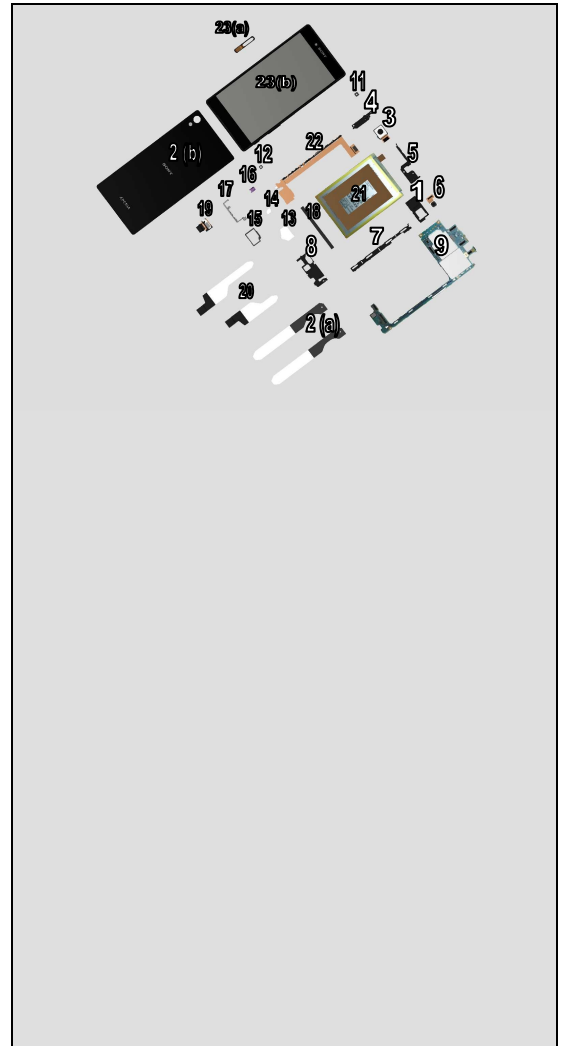
2. Suction cup



3 Disassembly

The E6853/E6833/E6883 disassembly is done in the following order:

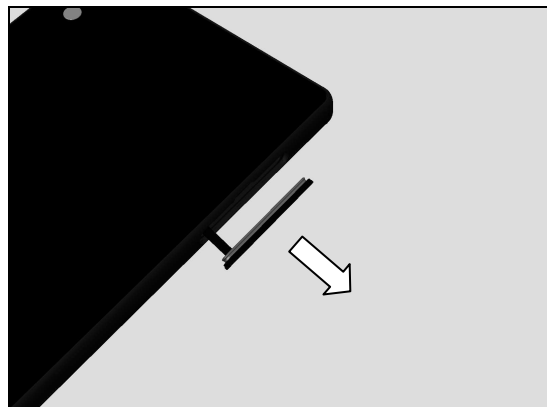
1. Tray Combo SS (E6853)/ Tray Combo DS (E6833/E6883)
2. Adhesive Battery Rear (a) and Panel Rear Sub Assy (b)
3. Main Camera
4. Ant WLAN
5. Ant Cellular Sub
6. Chat Camera
7. Holder Battery
8. Holder USB
9. Main PBA
10. Thermal Gap Filler
11. Adhesive 2nd Mic
12. Adhesive 1st Mic
13. Plate Speaker
14. Plate Vib
15. Adhesive FPC Speaker
16. Holder Vibrator
17. Ant Cellular Main
18. Cushion Battery Bottom
19. FPC USB Module
20. Adhesive Battery A and Adhesive Battery
21. Battery
22. FPC Key Module
23. Fingerprint Sensor Module (a) and Display Frame Assy (b)



Disassembly

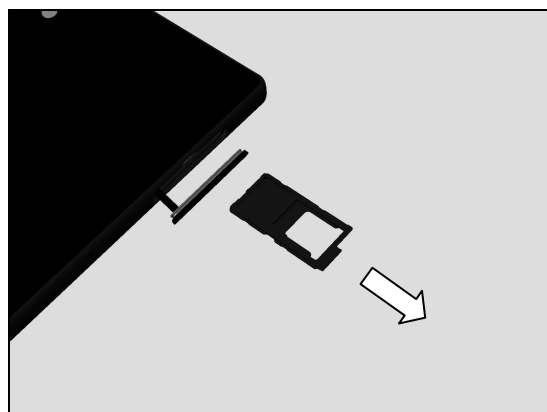
3.1 Tray Combo SS (E6853)/ Tray Combo DS (E6833/E6883)

Open the Cap Combo Sub Assy.



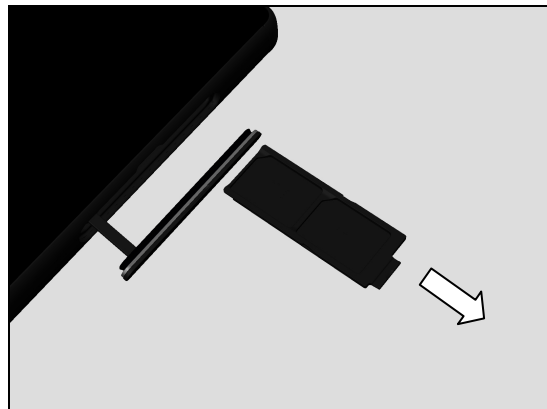
Remove the Tray Combo SS with fingers.

This is only for E6853!

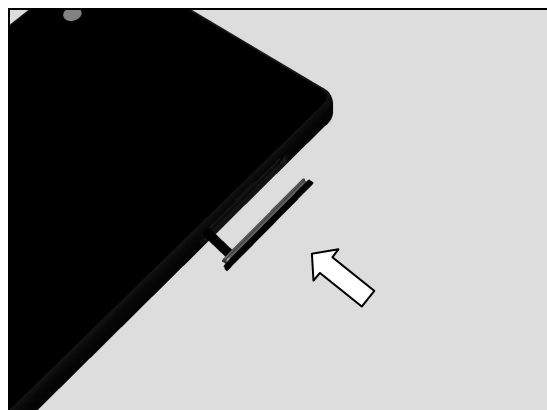


Remove the Tray Combo DS with fingers.

This is only for E6833 and E6883!



Close the Cap Combo Sub Assy.



Disassembly

3.2 Adhesive Battery Rear (a) and Panel Rear Sub Assy (b)

Use Suction Cup to get space for inserting the Guitar Pick.

Note! Put the Suction Cup a little upper of the middle area of the Panel Rear Sub Assy.

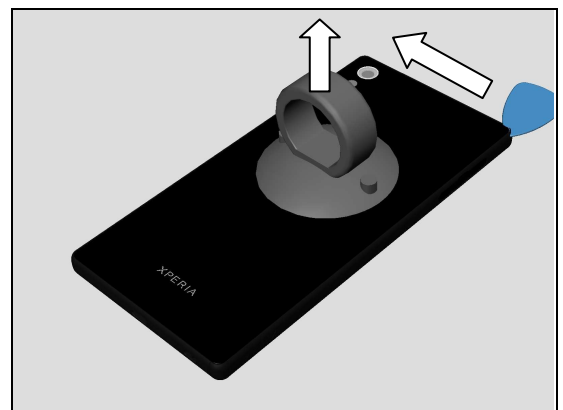
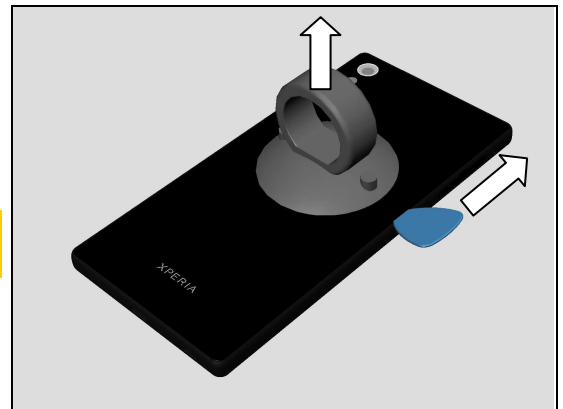
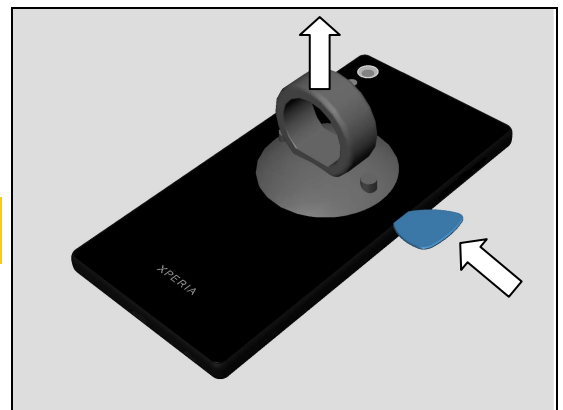
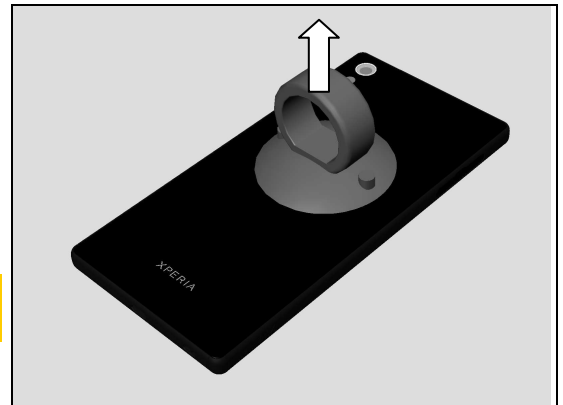
Insert the Guitar Pick.

Note! Do not insert Guitar Pick in the release area of the Cap Combo Sub Assy.

Gently slide the Guitar Pick along to release the sides of the Panel Rear Sub Assy as shown in picture.

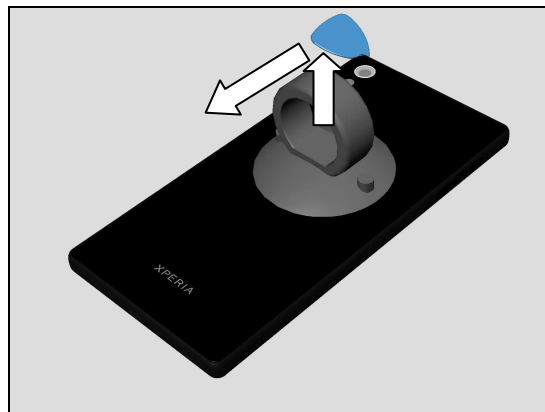
Note! Start a little upper of the middle of the right long side and then slide to top side only!

Slide this side.

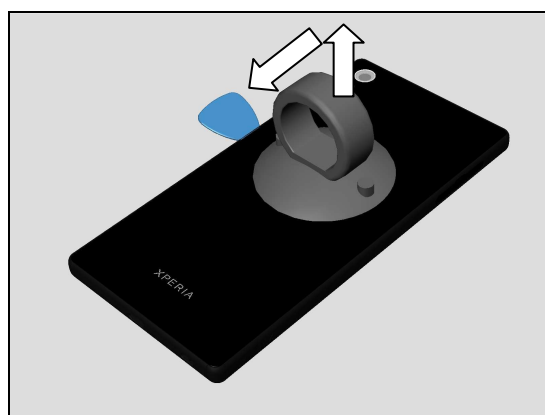


Disassembly

Slide this side.

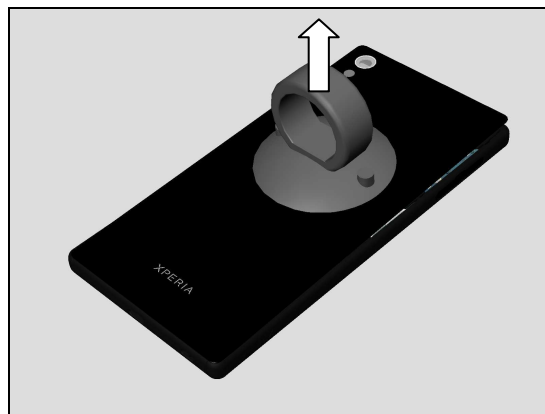


Note! Stop Sliding to this position.



Pull up the upper half of the Panel Rear Sub Assy a little.

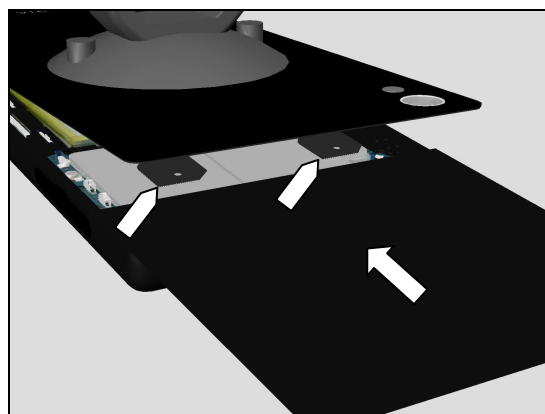
Note! The Panel Rear Sub Assy will deform a little during removal of the Adhesive Battery Rear.



Identify the two Adhesive Battery Rear.

And then insert a sheet to protect components on the Main PBA during removal of the Adhesive Battery Rear.

Any protection film without adhesive can be used as this sheet.

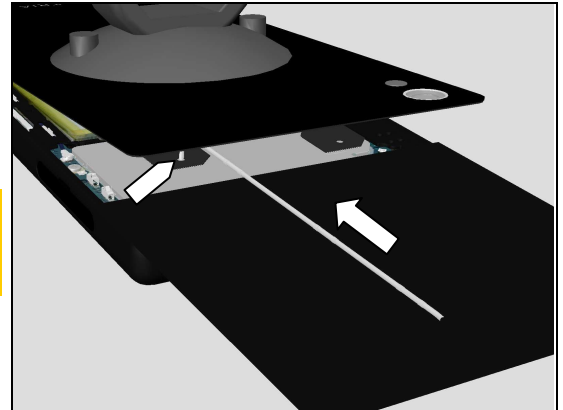


Disassembly

Insert a hook into the hole in the tab of the Adhesive Battery Rear.

The hook can be made from a clip.

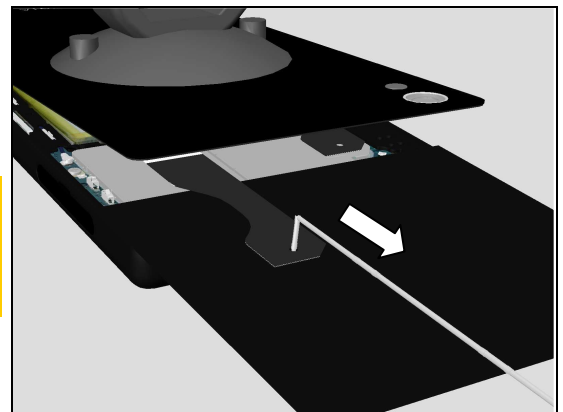
Note! Do not damage the components on the main PBA and scratch the Panel Rear Sub Assy.



Slowly pull out the Adhesive Battery Rear by the hook until the fingers can hold the tab.

Note! Do not damage the components on the main PBA and scratch the Panel Rear Sub Assy.

Pull slowly and do not make the tab or adhesive break during the action.

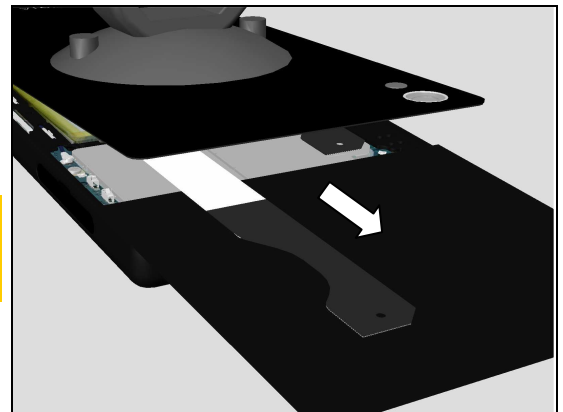


Remove the hook.

And slowly pull out the Adhesive Battery Rear by fingers.

Scrap! Not to be reused.

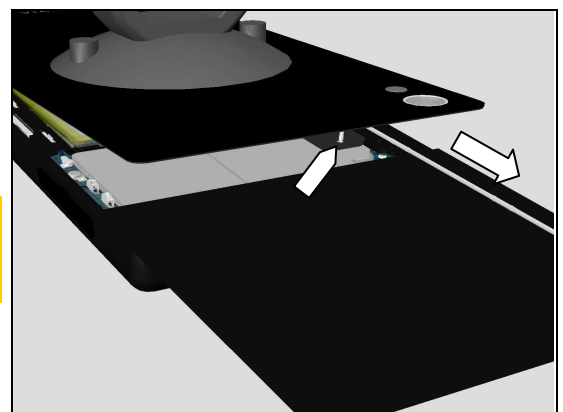
Note! Pull slowly and do not make the tab or adhesive break during the action.



Insert a hook into the hole in the tab of the Adhesive Battery Rear.

The hook can be made from a clip.

Note! Do not damage the components on the main PBA and scratch the Panel Rear Sub Assy.

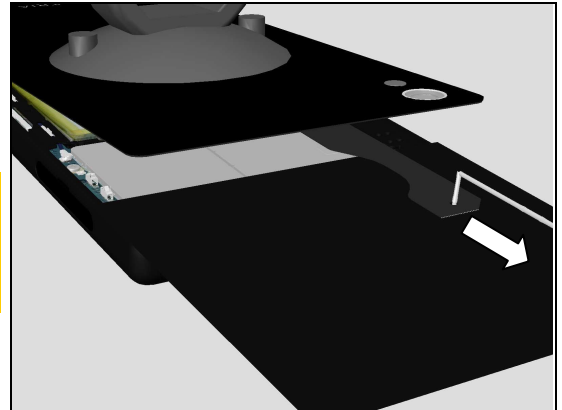


Disassembly

Slowly pull out the Adhesive Battery Rear by the hook until the fingers can hold the tab.

Note! Do not damage the components on the main PBA and scratch the Panel Rear Sub Assy.

Pull slowly and do not make the tab or adhesive break during the action.

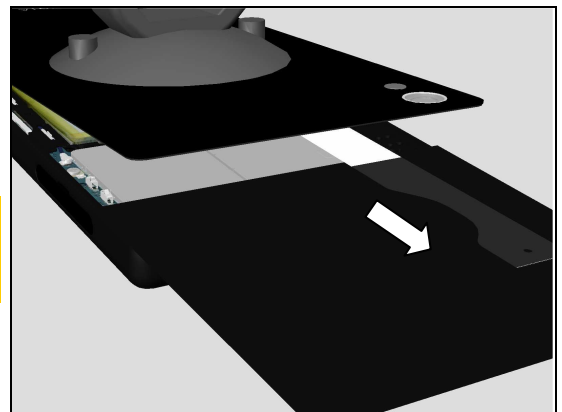


Remove the hook.

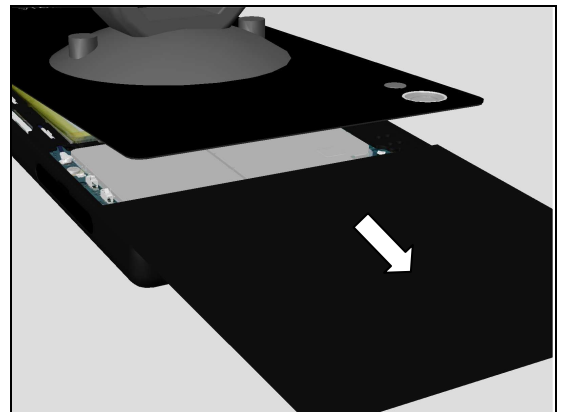
And slowly pull out the Adhesive Battery Rear by fingers.

Scrap! Not to be reused.

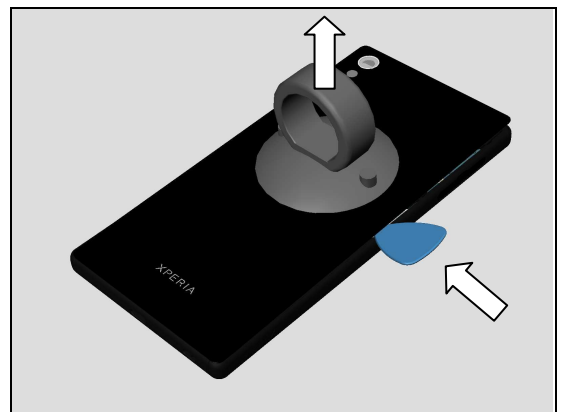
Note! Pull slowly and do not make the tab or adhesive break during the action.



Remove the sheet.

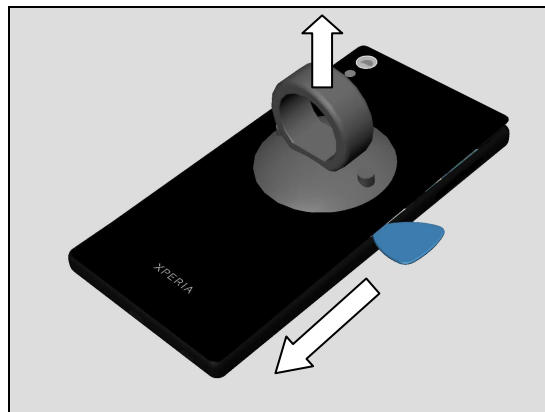


Insert the Guitar Pick here again.

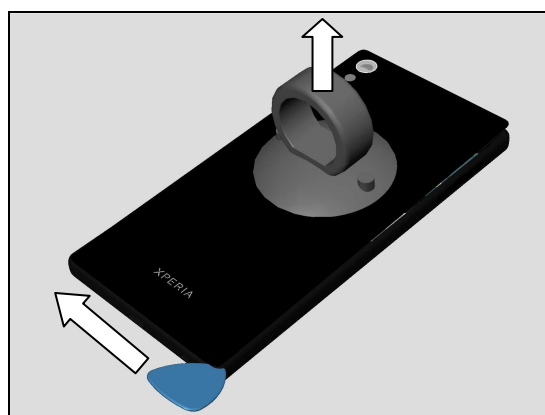


Disassembly

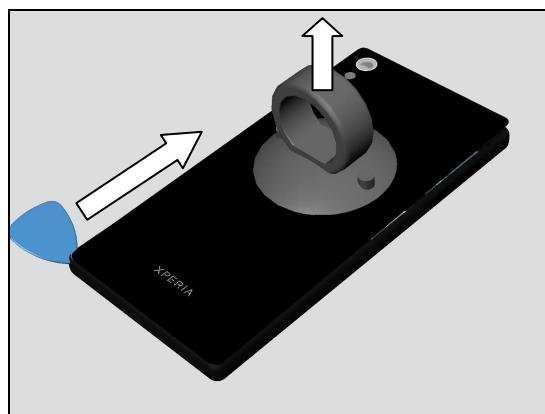
Slide to bottom side.



Slide this side.



Slide this side.



Remove the Panel Rear Sub Assy by using the Suction Cup.

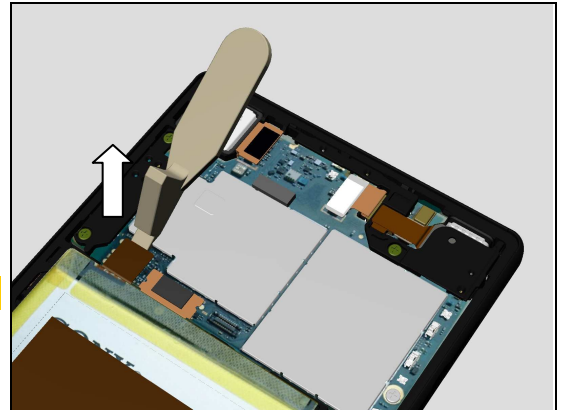


Disassembly

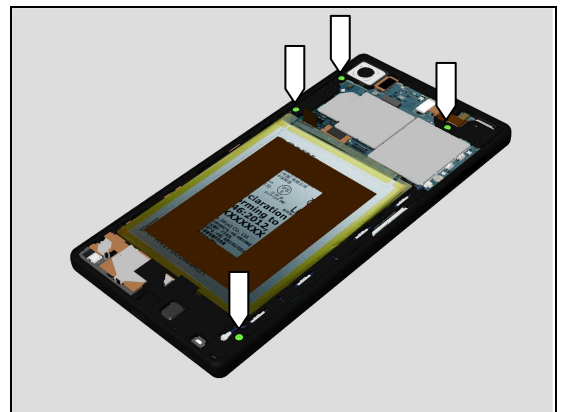
3.3 Main Camera

Disconnect the Battery connector by using the Front Opening Tool.

Do not damage components on the Main PBA!

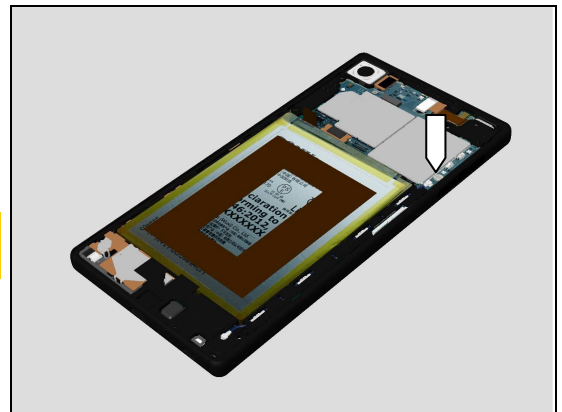


Remove the four Screw Other Len:3.0 Diam:1.4 by using a screwdriver with Bits JCIS No.0.



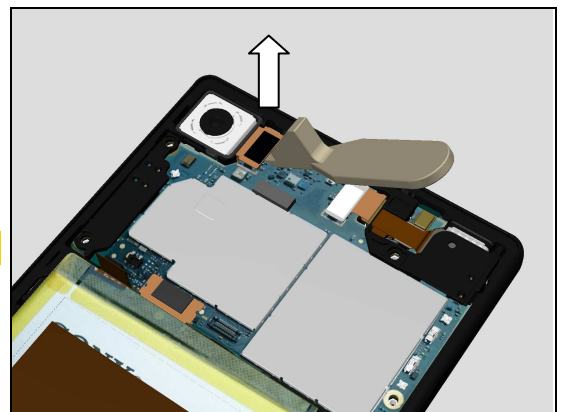
Remove the Screw Other Len:2.6 Diam:1.4 by using a screwdriver with Bits JCIS No.0.

This is only for E6853! E6833 and E6883 do not have this screw.



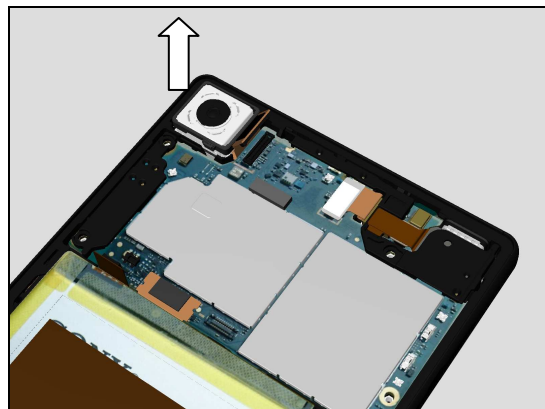
Disconnect the Main Camera connector by using the Front Opening Tool.

Do not damage components on the Main PBA!



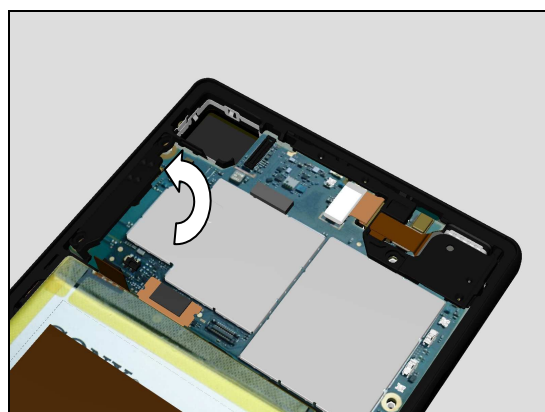
Disassembly

Remove the Main Camera.

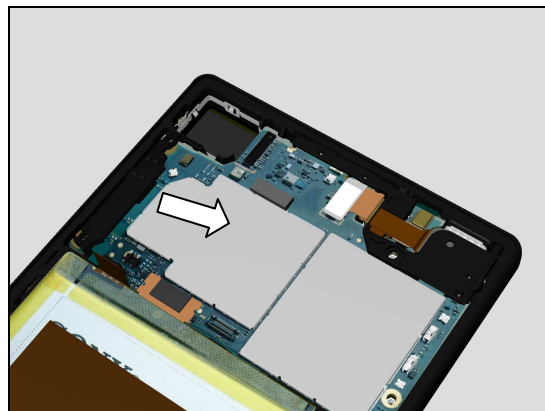


3.4 Ant WLAN

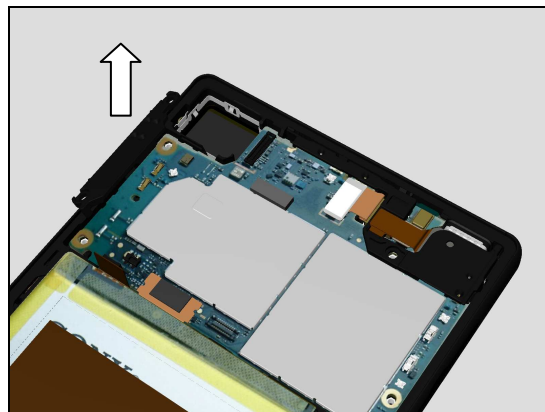
Rotate the Ant WLAN.



Release the Ant WLAN.



Remove the Ant WLAN.

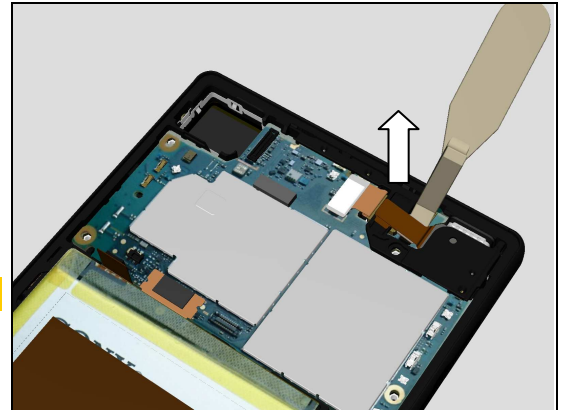


Disassembly

3.5 Ant Cellular Sub

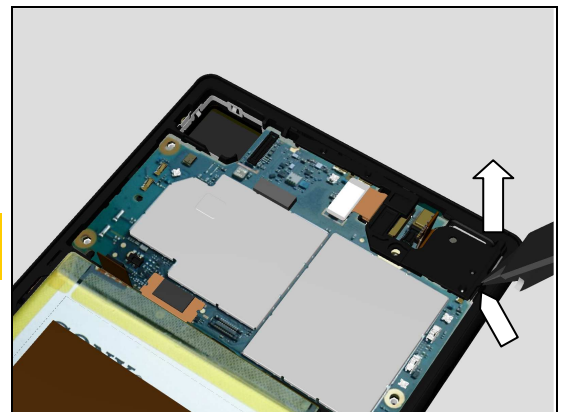
Disconnect BtB connector of the FPC Jack Module by using the Front Opening Tool.

Do not damage components on the Main PBA!



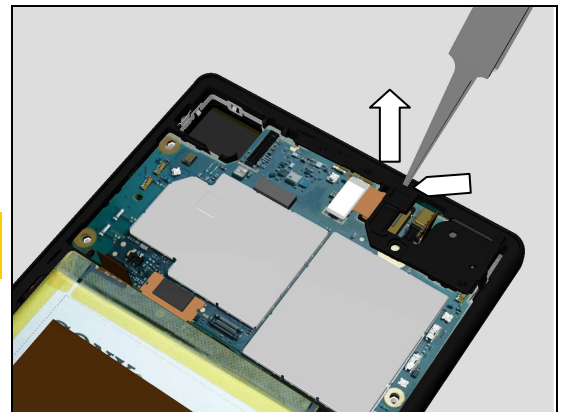
Release from this side of the Ant Cellular Sub firstly using pointed plastic tweezers.

Do not scratch the adhesive attaching area of the Display Frame Assy!



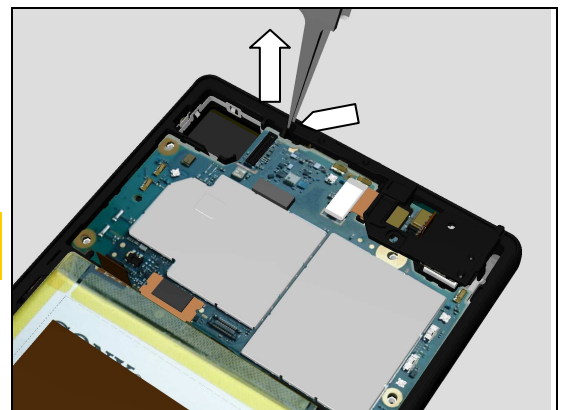
Then release from this side of the Ant Cellular Sub using pointed plastic tweezers.

Do not scratch the adhesive attaching area of the Display Frame Assy!



Hold this side of the Ant Cellular Sub and remove it using pointed plastic tweezers.

Do not scratch the adhesive attaching area of the Display Frame Assy!

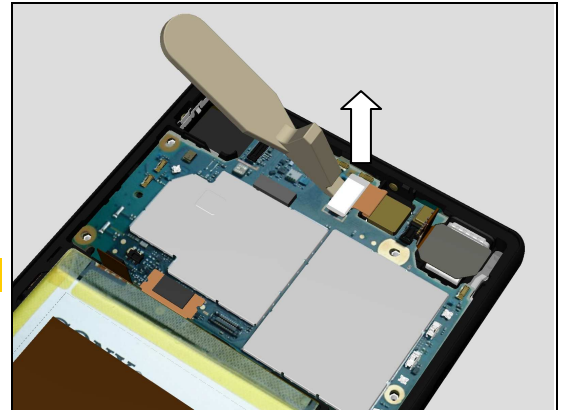


Disassembly

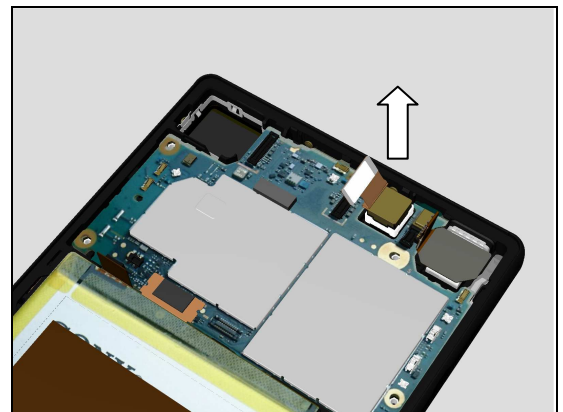
3.6 Chat Camera

Disconnect Chat Camera connector by using the Front Opening Tool.

Do not damage components on the Main PBA!



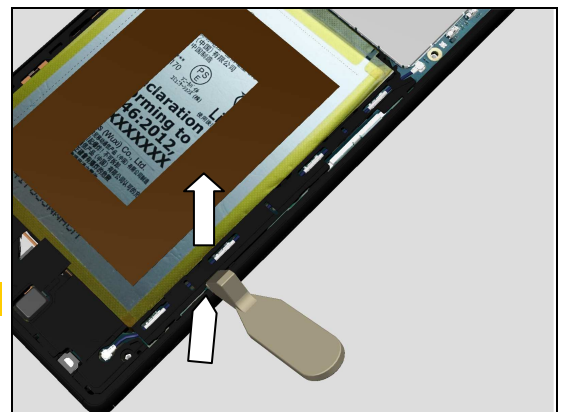
Remove the Chat Camera.



3.7 Holder Battery

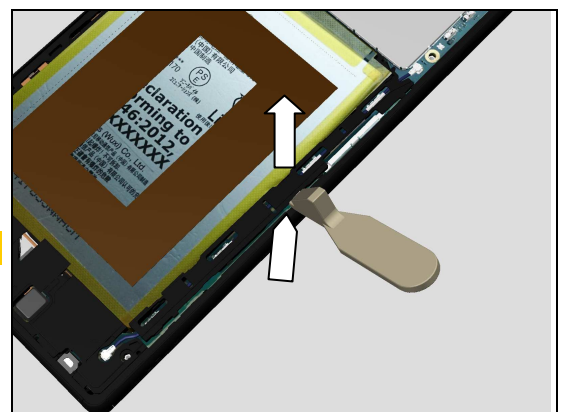
Release the Holder Battery as shown in picture by using the Front Opening Tool.

Do not damage components on the Main PBA!



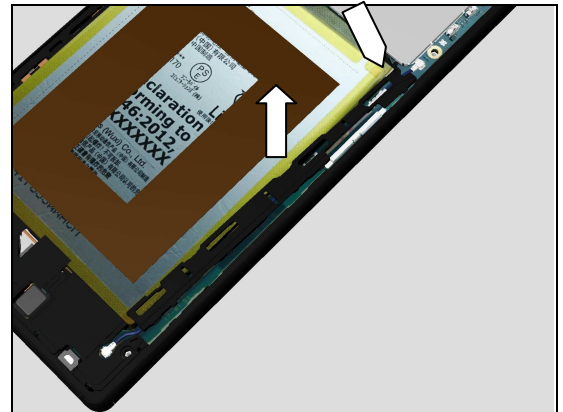
Release the Holder Battery as shown in picture by using the Front Opening Tool.

Do not damage components on the Main PBA!



Disassembly

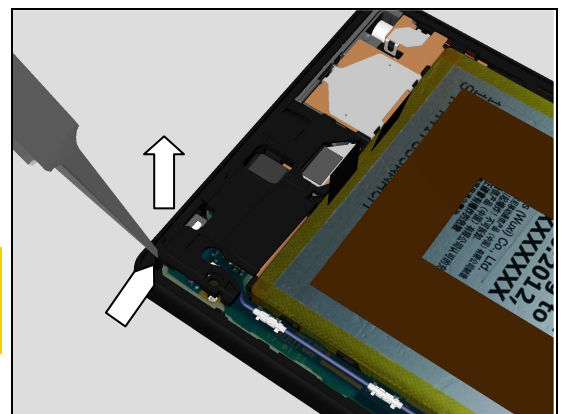
Release the Holder Battery and remove it by fingers.



3.8 Holder USB

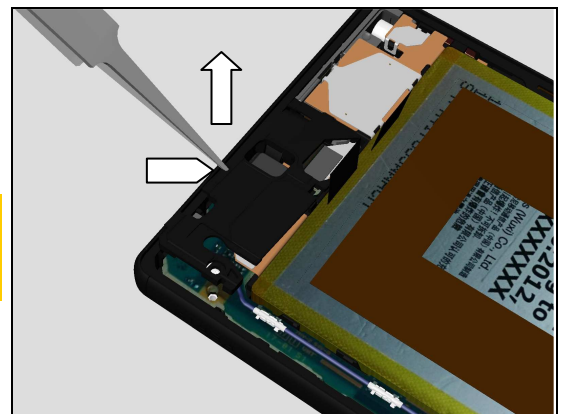
Release the Holder USB as shown in picture by using the Front Opening Tool.

Do not damage components on the Main PBA!
Do not scratch the adhesive attaching area of the Display Frame Assy!

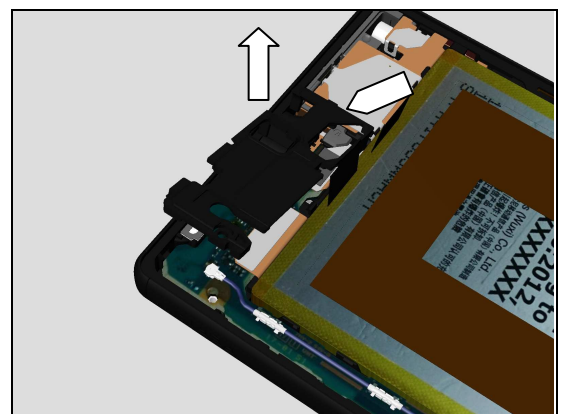


Release the Holder USB as shown in picture by using the Front Opening Tool.

Do not damage components on the Main PBA!
Do not scratch the adhesive attaching area of the Display Frame Assy!



Release the Holder USB and remove it by fingers.

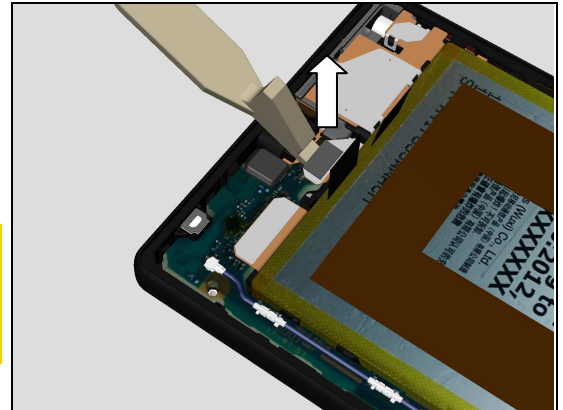


Disassembly

3.9 Main PBA

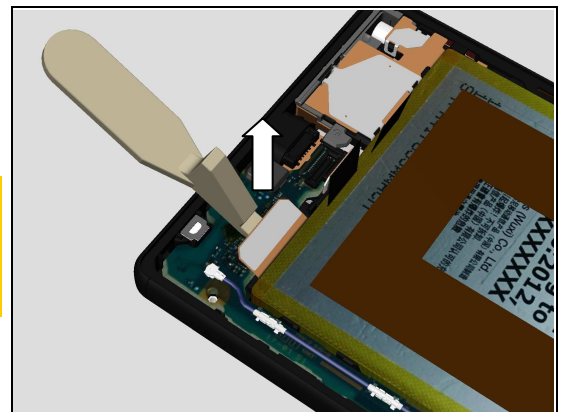
Disconnect BtB connector of the FPC USB Module by using the Front Opening Tool.

Do not damage components on the Main PBA!
Be careful! This action may make the 1st Mic part of the Main PBA attachment loose, which affect Mic performance.



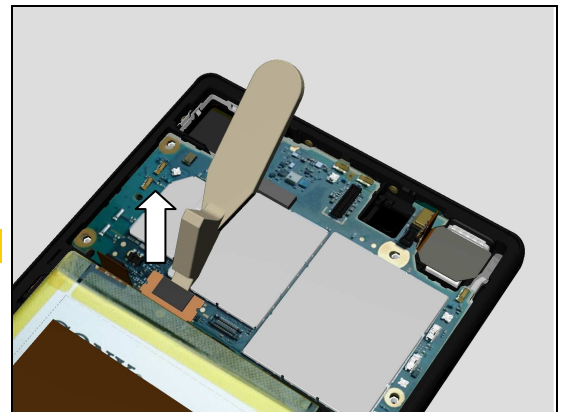
Disconnect BtB connector of the Display FPC by using the Front Opening Tool.

Do not damage components on the Main PBA!
Be careful! This action may make the 1st Mic part of the Main PBA attachment loose, which affect Mic performance.

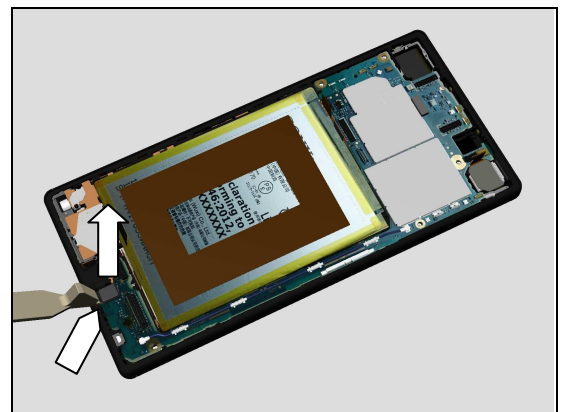


Disconnect BtB connector of the FPC Key Module by using the Front Opening Tool.

Do not damage components on the Main PBA!

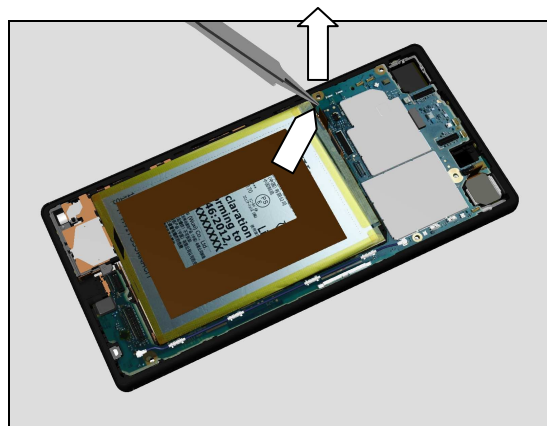


Release the main mic area of the Main PBA as shown in picture using the Front opening tool.

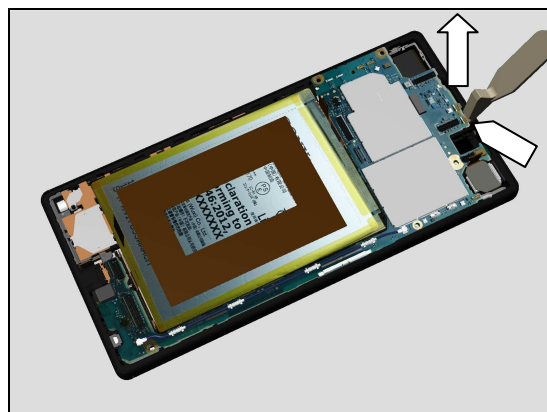


Disassembly

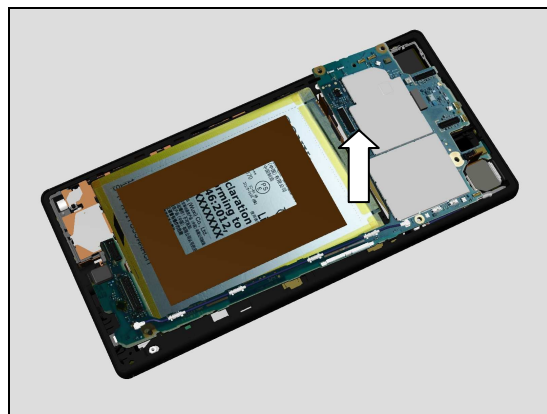
Release left side of the Main PBA as shown in picture using pointed plastic tweezers.



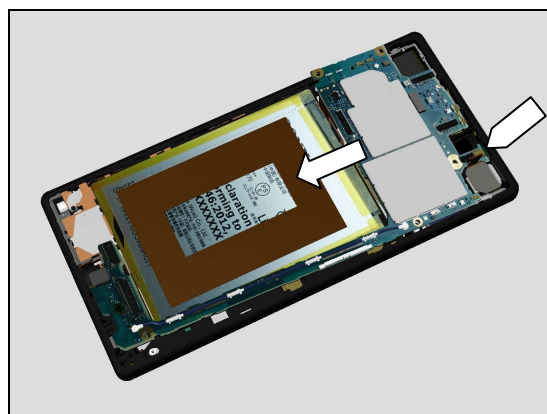
Release the top side the Main PBA as shown in picture using the Front Opening tool.



Release the right side of the Main PBA as shown in picture.

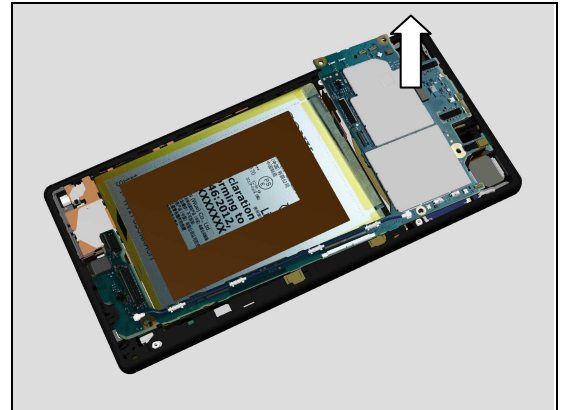


Release the 2nd mic area of the Main PBA as shown in picture.



Disassembly

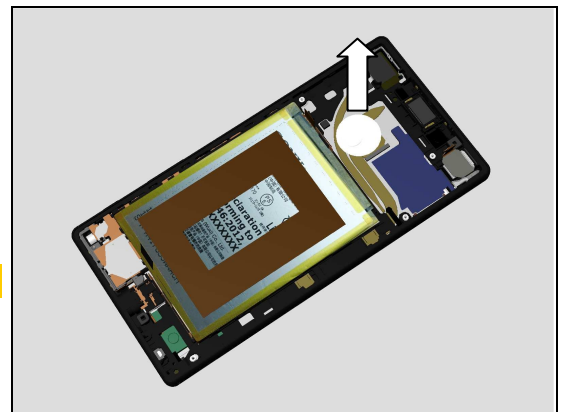
Remove the Main PBA.



3.10 Thermal Gap Filler

Clean the residues of the Thermal Gap Filler.

Make sure all residues are cleaned.

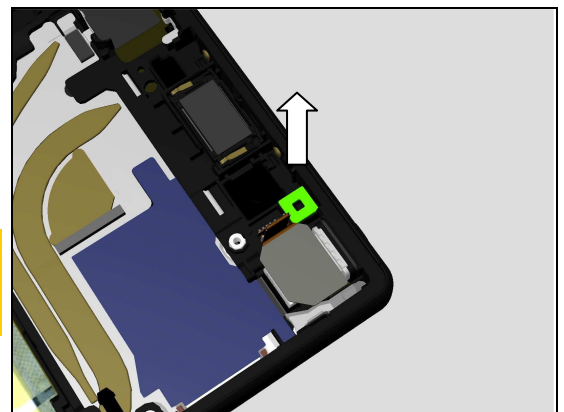


3.11 Adhesive 2nd Mic

Detach to remove the Adhesive 2nd Mic.

Scrap! Not to be reused.

Make sure all remaining adhesive residue have been removed!

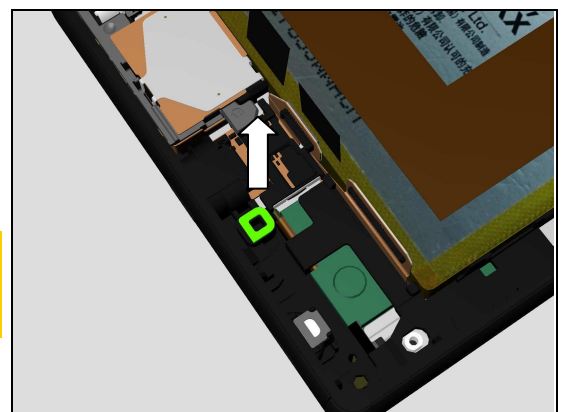


3.12 Adhesive 1st Mic

Detach to remove Adhesive 1st Mic.

Scrap! Not to be reused.

Make sure all remaining adhesive residue have been removed!

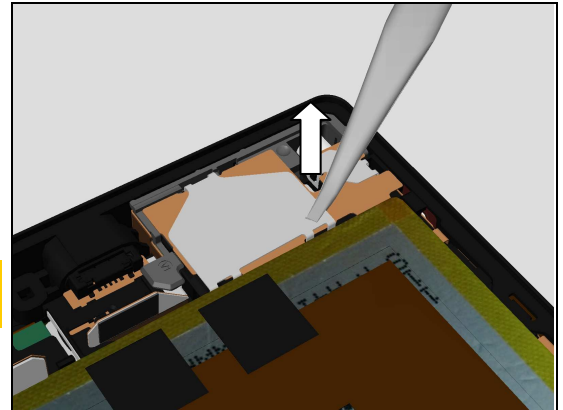


Disassembly

3.13 Plate Speaker

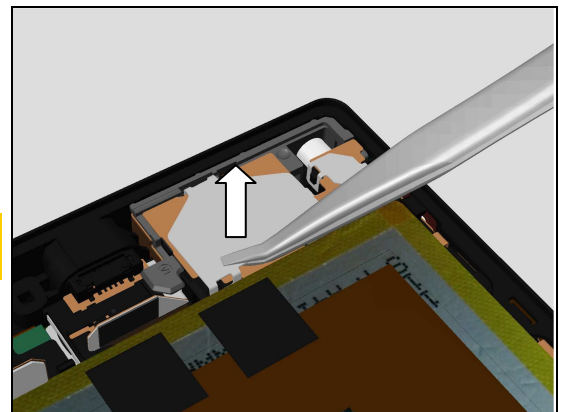
Release this side firstly by using Flex Film Assembly Tool as shown in picture.

Note! Do not damage the hook on the Display Frame Assy and FPC Key Module.



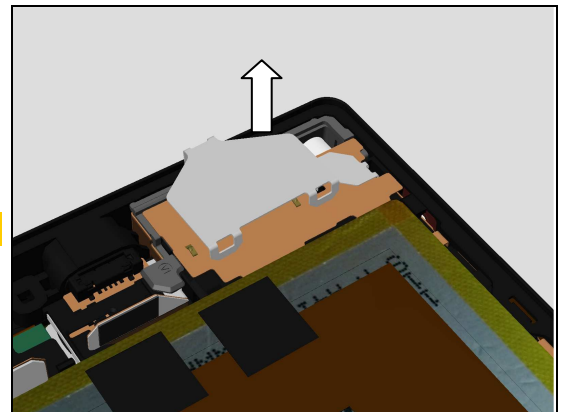
Then release this side by using Flex Film Assembly Tool as shown in picture.

Note! Do not damage the hook on the Display Frame Assy and FPC Key Module.



Remove the Plate Speaker.

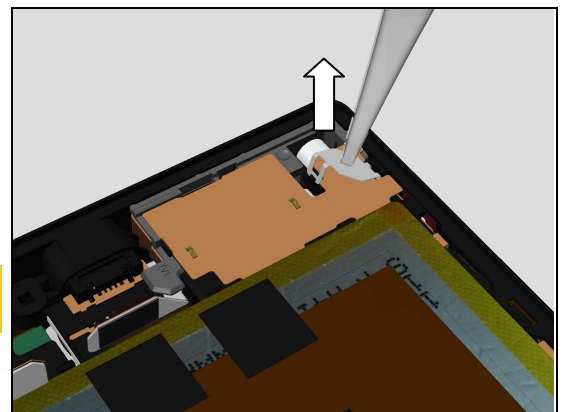
Scrap the Plate Speaker if deformed after disassembly.



3.14 Plate Vib

Release this side firstly by using Flex Film Assembly Tool as shown in picture.

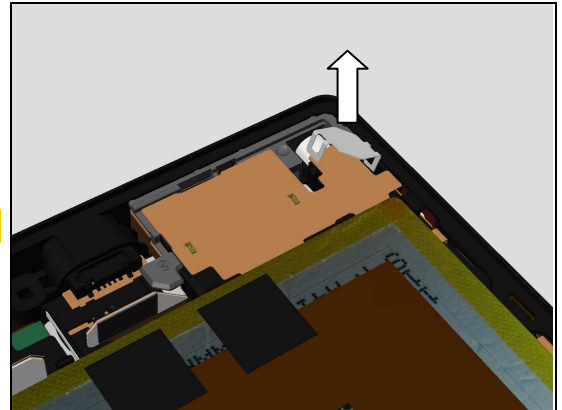
Note! Do not damage the hook on the Display Frame Assy and FPC Key Module.



Disassembly

Remove the Plate Vib.

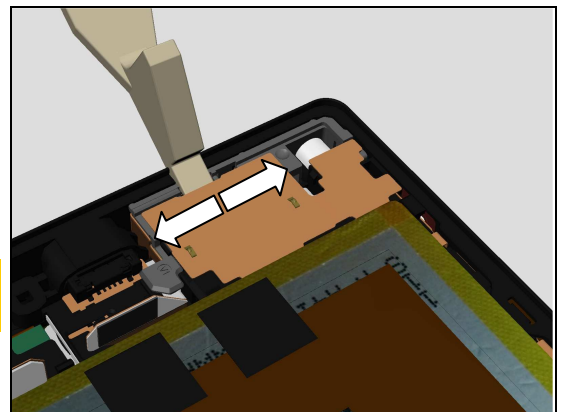
Scrap the Plate Speaker if deformed after disassembly.



3.15 Adhesive FPC Speaker

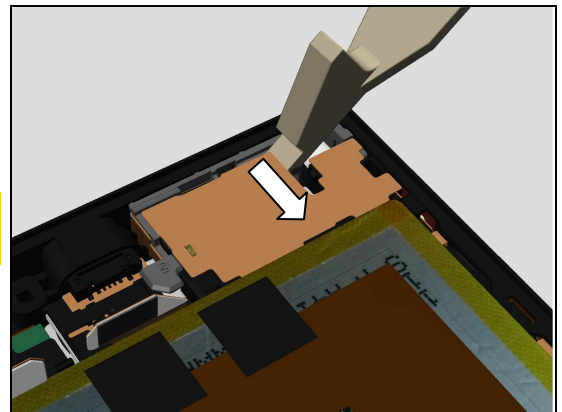
Detach the speaker FPC from this side by using Front Opening Tool as shown in picture.

**Note! Do not insert the Front Opening Tool too much.
Do not damage the FPC Key Module.**



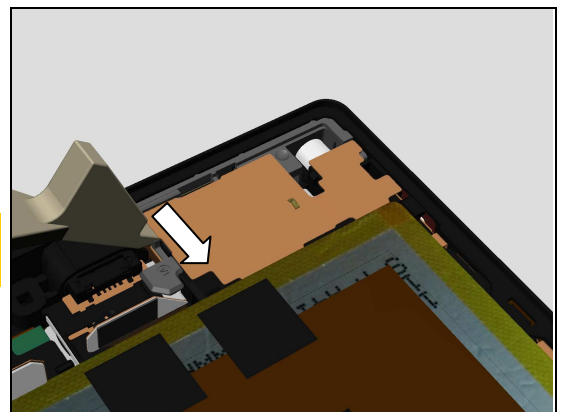
Detach from this side.

**Note! Do not insert the Front Opening Tool too much.
Do not damage the FPC Key Module.**



Detach from this side.

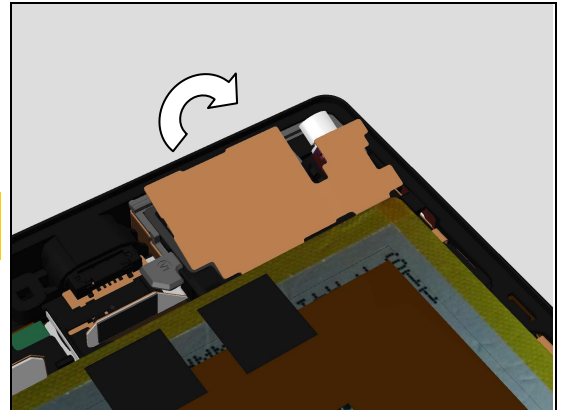
**Note! Do not insert the Front Opening Tool too much.
Do not damage the FPC Key Module.**



Disassembly

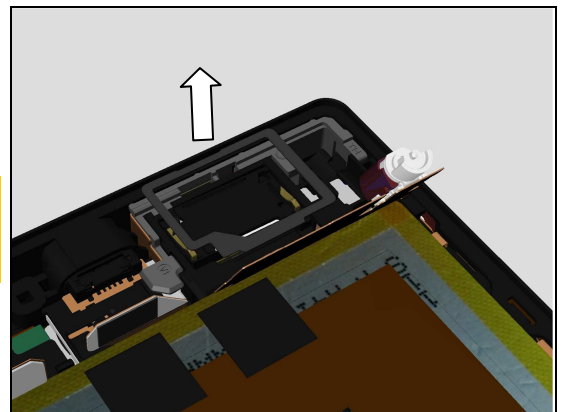
Rotate the speaker FPC and vibrator FPC together.
Carefully detach the rest part of speaker FPC.

Note! Do not break the FPC between speaker FPC and vibrator FPC during this action.



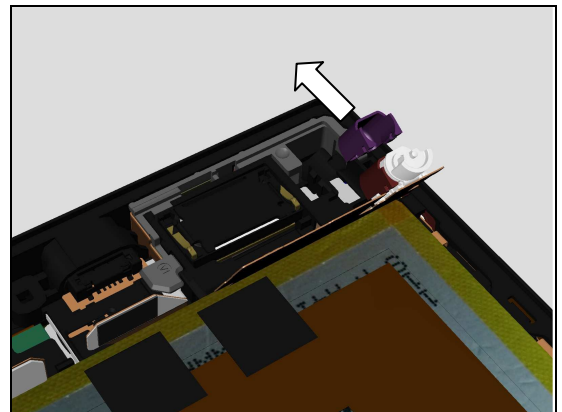
Clean the residues of the Adhesive FPC Speaker.

Scrap the Adhesive FPC Speaker!
Make sure all remaining adhesive residue have been removed!



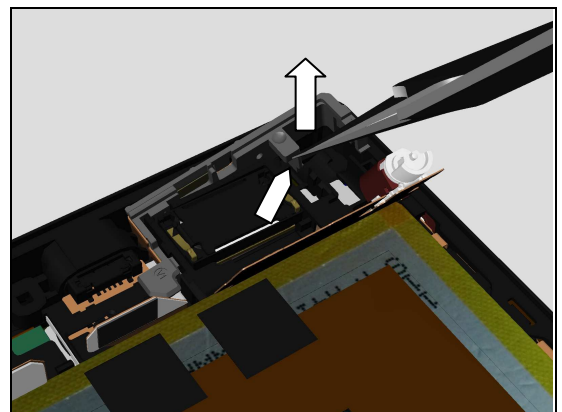
3.16 Holder Vibrator

Remove the Holder Vibrator.



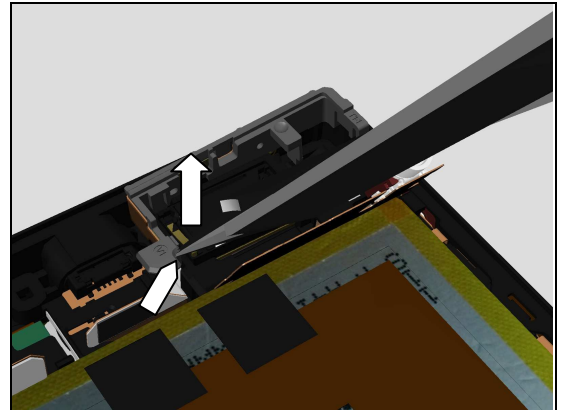
3.17 Ant Cellular Main

Release the Ant Cellular Main from this side firstly by using pointed plastic tweezers as shown in picture.



Disassembly

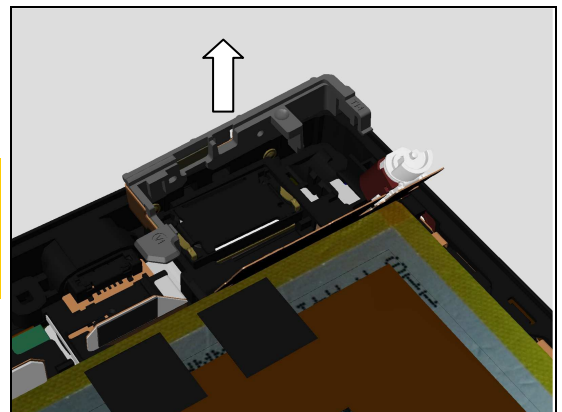
Then release the Ant Cellular Main from this side by using pointed plastic tweezers as shown in picture.



Remove the Ant Cellular Main.

Note! Do not deform the Ant Cellular Main during this action.

Scrap the Ant Cellular Main if deformed after disassembly!

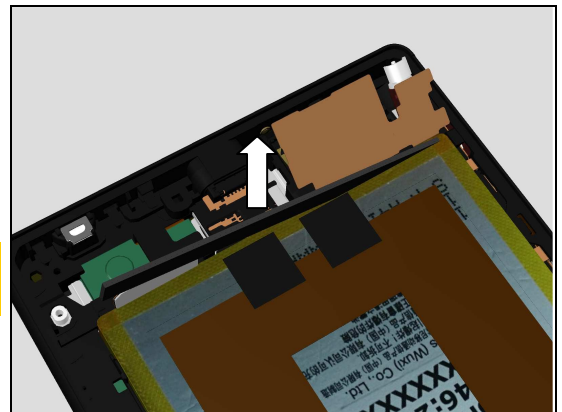


3.18 Cushion Battery Bottom

Detach to remove the Cushion Battery Bottom.

Scrap! Not to be reused.

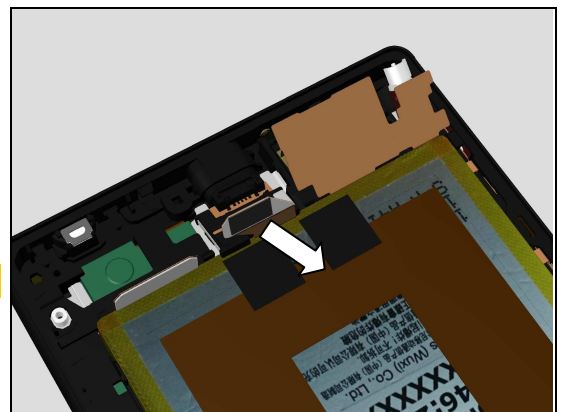
Be careful! Not to damage the Battery.



3.19 FPC USB Module

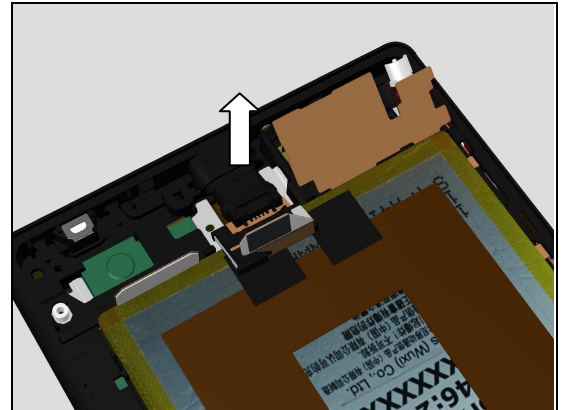
Release the FPC USB Module from its hole.

Be careful! Not to damage the Battery.



Disassembly

Remove the FPC USB Module.

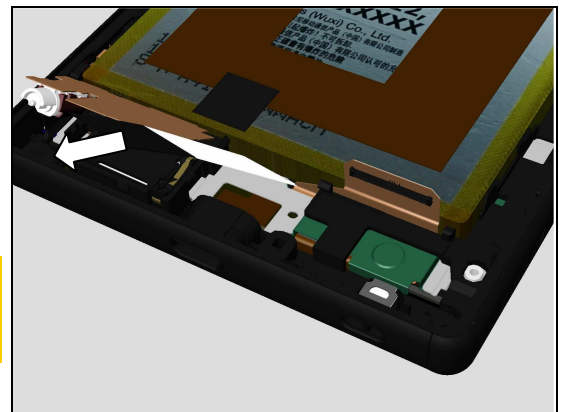


3.20 Adhesive Battery A and Adhesive Battery B

Slowly pull out the Adhesive Battery B.

Scrap! Not to be reused.

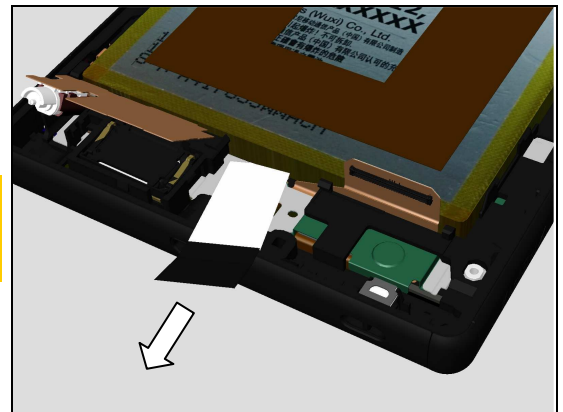
Pull slowly and do NOT make the tab or adhesive break during the action.



Slowly pull out the Adhesive Battery A.

Scrap! Not to be reused.

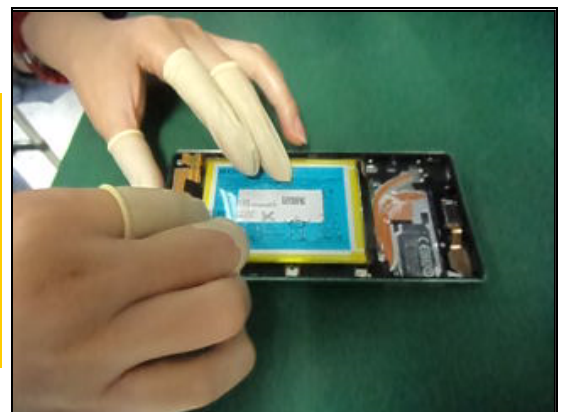
Pull slowly and do NOT make the tab or adhesive break during the action.



Refer to this disassembly movie.

Be careful! In order NOT to break the tab or adhesive when pulling the adhesive, the angle between pulling out direction and the adhesive attaching surface must be as small as possible.

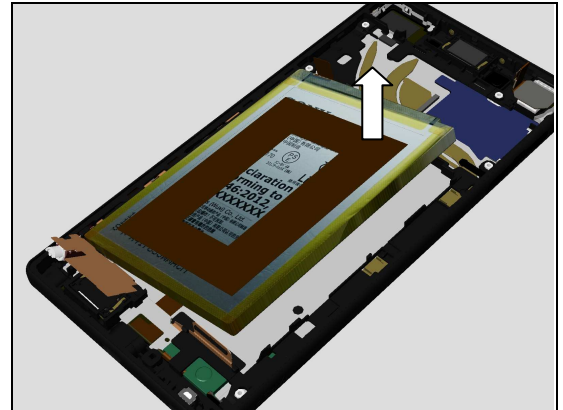
Note! If the tab or adhesive accidentally breaks, use a flat plastic stick to detach the Battery better from bottom side. And do not damage the Display Frame Assy when detaching.



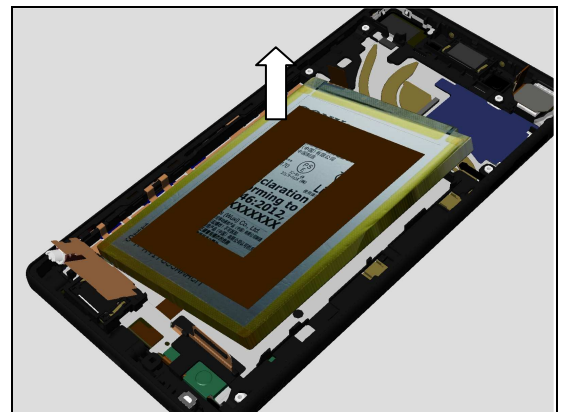
Disassembly

3.21 Battery

Release the Battery.



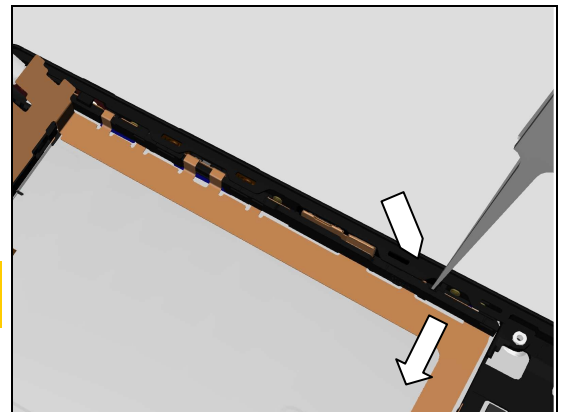
Remove it.



3.22 FPC Key Module

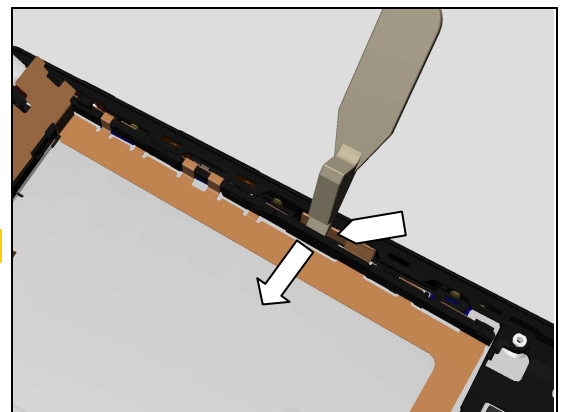
Release the FPC Key Module from this position firstly as shown in picture by using pointed plastic tweezers.

Do not scratch the adhesive attaching area of the Display Frame Assy!



Release the FPC Key Module from this position as shown in picture by using the Front Opening Tool.

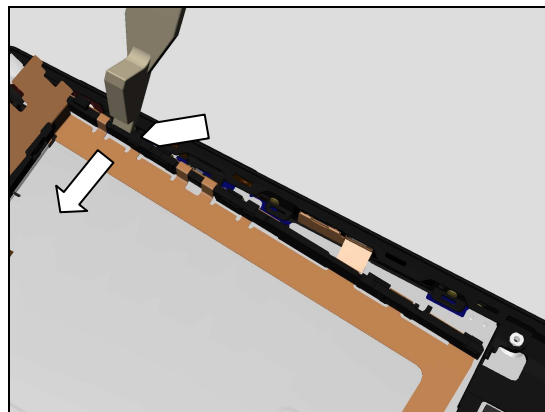
Do not the FPC Key Module!



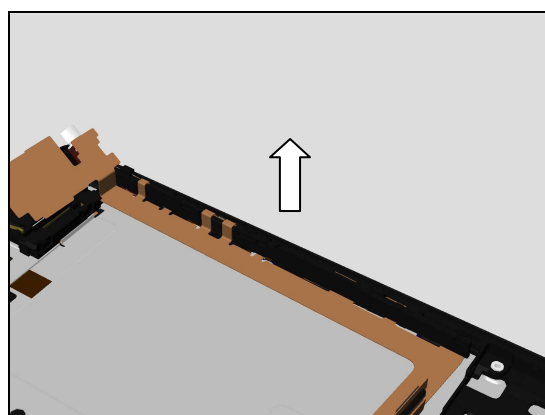
Disassembly

Release the FPC Key Module from this position as shown in picture by using the Front Opening Tool.

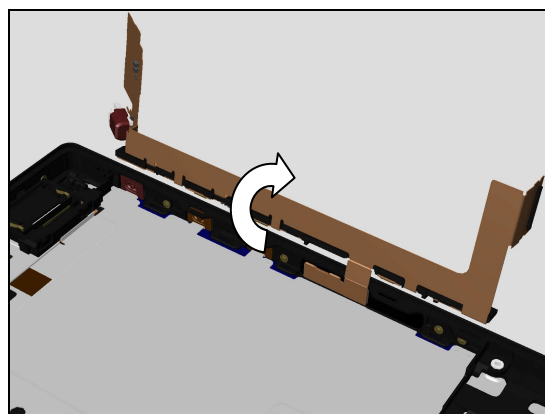
Do not the FPC Key Module!



Lift the Fingerprint Sensor Module.

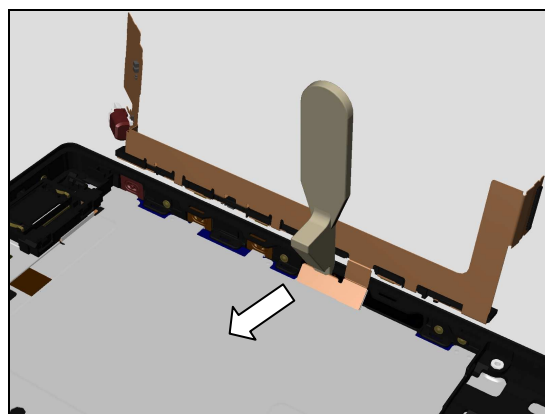


Rotate it.



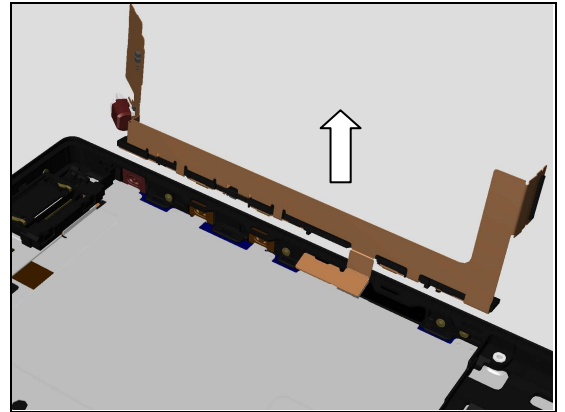
Disconnect BtB connector of the FPC Key Module to the Fingerprint Sensor Module by using the Front Opening Tool.

Do not damage the Fingerprint Sensor Module!



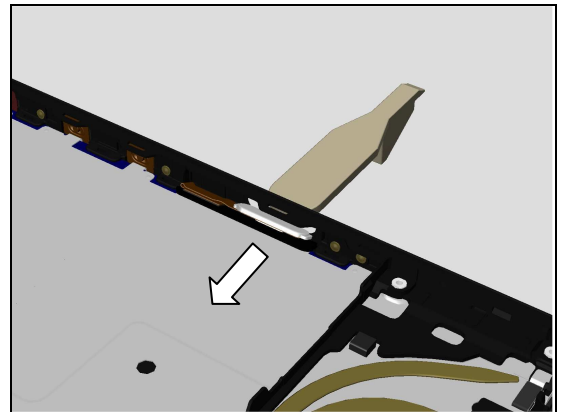
Disassembly

Remove the FPC Key Module.

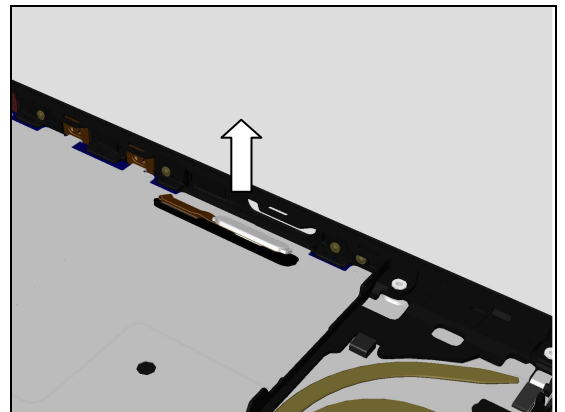


3.23 Fingerprint Sensor Module (a) and Display Frame Assy (b)

Push the Fingerprint Sensor Module out from its hole by using the Front Opening Tool.



Remove the Fingerprint Sensor Module.



4 Replacement

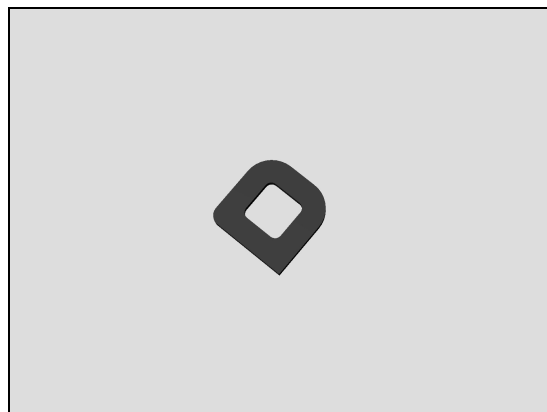
4.1 Adhesive 1st Mic

Follow the 3.1 – 3.12 Disassembly instructions!

Prepare a new Adhesive 1st Mic.

Follow the 5.9 – 5.14 and 5.18 – 5.23 Reassembly instructions!

Scrap! Adhesive 1st Mic cannot be reused in case the Main PBA is disassembled!



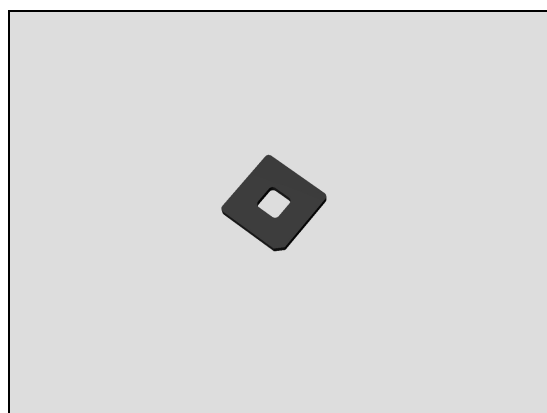
4.2 Adhesive 2nd Mic

Follow the 3.1 – 3.12 Disassembly instructions!

Prepare a new Adhesive 2nd Mic.

Follow the 5.9 – 5.14 and 5.18 – 5.23 Reassembly instructions!

Scrap! Adhesive 2nd Mic cannot be reused in case the Main PBA is disassembled!



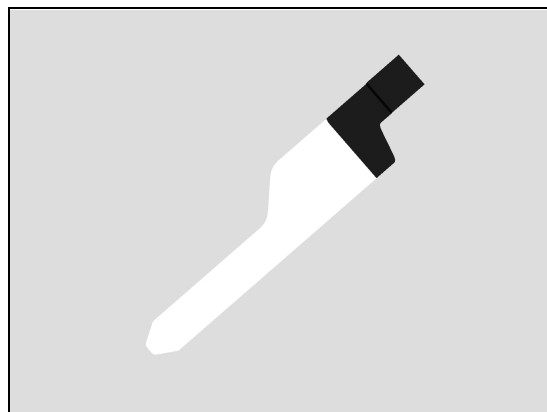
4.3 Adhesive Battery A

Follow the 3.1 – 3.21 Disassembly instructions!

Prepare a new Adhesive Battery A.

Follow the 5.3 – 5.23 Reassembly instructions!

Scrap! Not to be reused!



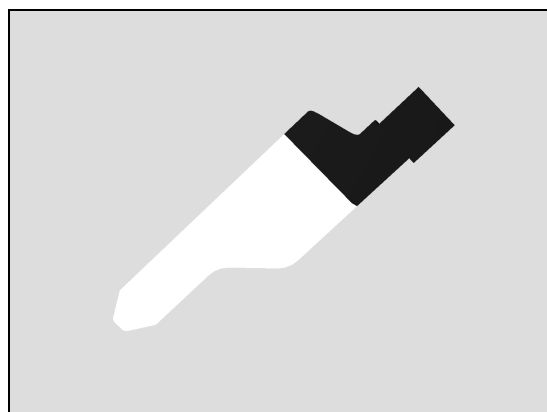
4.4 Adhesive Battery B

Follow the 3.1 – 3.21 Disassembly instructions!

Prepare a new Adhesive Battery B.

Follow the 5.3 – 5.23 Reassembly instructions!

Scrap! Not to be reused!



Replacement

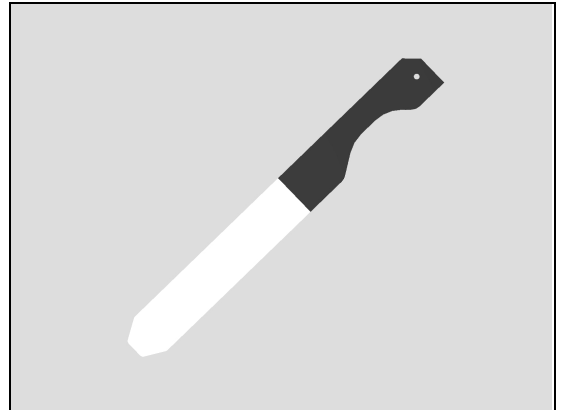
4.5 Adhesive Battery Rear

Follow the 3.1 – 3.2 Disassembly instructions!

Prepare a new Adhesive Battery Rear.

Follow the 5.22 – 5.23 Reassembly instructions!

Scrap! Not to be reused!



4.6 Adhesive FPC Speaker

Follow the 3.1 – 3.2 Disassembly instructions!

Disconnect the Battery connector.

Follow the 3.13 – 3.16 Disassembly instructions!

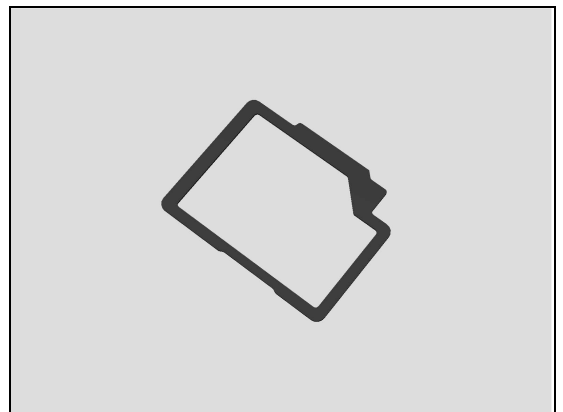
Prepare a new Adhesive FPC Speaker.

Follow the 5.5 – 5.8 Reassembly instructions!

Press to snap the Battery connector.

Follow the 5.22 – 5.23 Reassembly instructions!

Scrap! Not to be reused!



4.7 Ant Cellular Main

Follow the 3.1 – 3.2 Disassembly instructions!

Disconnect the Battery connector and remove the fixed Screw Other Len:3.0 Diam:1.4 of the Holder USB.

Follow the 3.8 and 3.13 – 3.17 Disassembly instructions!

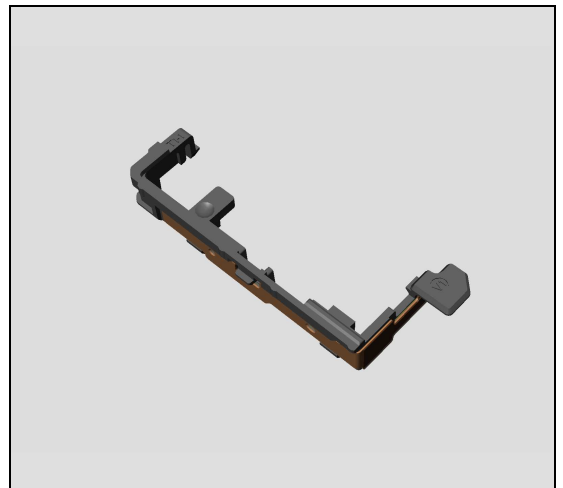
Prepare a new Ant Cellular Main.

Follow the 5.4 – 5.8 and 5.13 Reassembly instructions!

Tighten the fixed Screw Other Len:3.0 Diam:1.4 of the Holder USB and press to snap the Battery connector.

Follow the 5.22 – 5.23 Reassembly instructions!

Scrap the Ant Cellular Main if deformed when disassembly!



4.8 Ant Cellular Sub

Follow the 3.1 – 3.2 Disassembly instructions!

Disconnect the Battery connector and remove the fixed Screw Other Len:3.0 Diam:1.4 of the Ant Cellular Sub.

Follow the 3.5 Disassembly instructions!

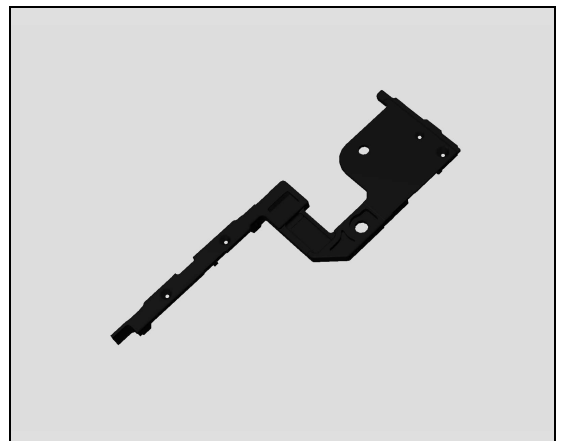
Prepare a new Ant Cellular Sub.

Follow the 4.34 Installation instructions!

Follow the 5.19 Reassembly instructions!

Tighten the fixed Screw Other Len:3.0 Diam:1.4 of the Ant Cellular Sub and press to snap the Battery connector.

Follow the 5.22 – 5.23 Reassembly instructions!



Replacement

4.9 Ant WLAN

Follow the 3.1 – 3.2 Disassembly instructions!

Disconnect the Battery connector and remove the two fixed Screw Other Len:3.0 Diam:1.4 of the Ant WLAN.

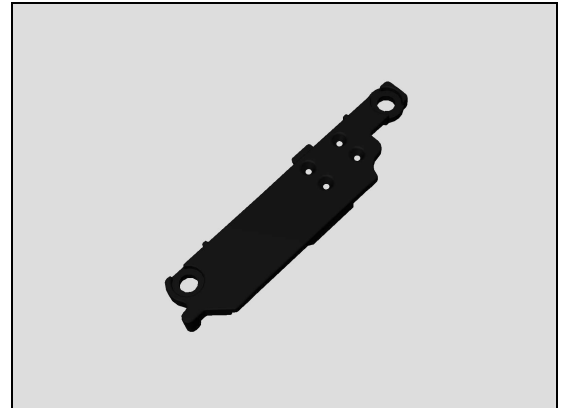
Follow the 3.4 Disassembly instructions!

Prepare a new Ant WLAN.

Follow the 5.20 Reassembly instructions!

Tighten the two fixed Screw Other Len:3.0 Diam:1.4 of the Ant WLAN and press to snap the Battery connector.

Follow the 5.22 – 5.23 Reassembly instructions!



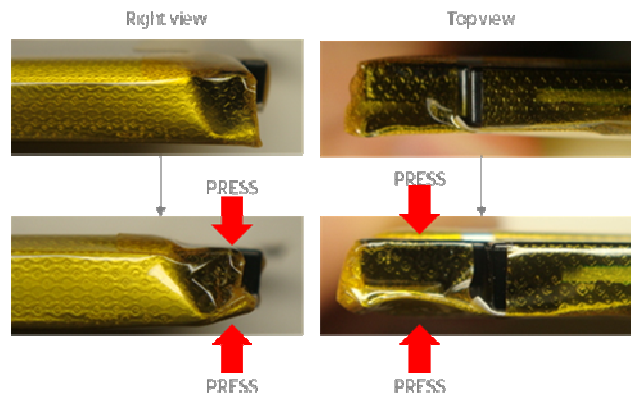
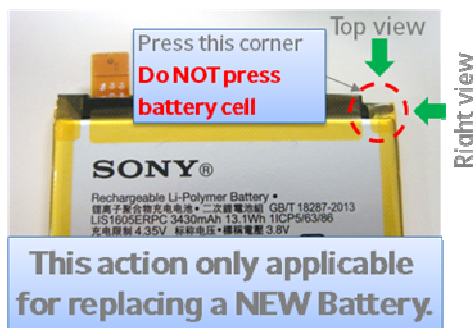
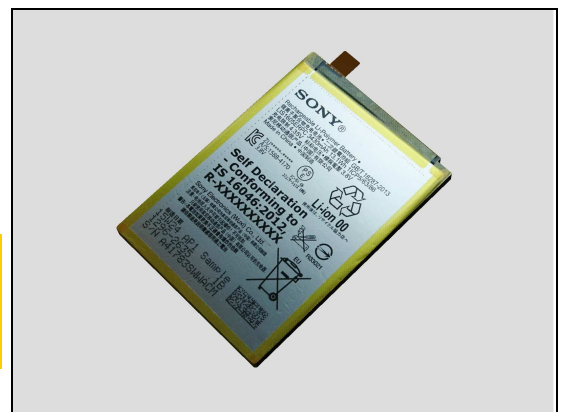
4.10 Battery

Follow the 3.1 – 3.21 Disassembly instructions!

Prepare a new Battery.

Follow the 5.3 – 5.23 Reassembly instructions!

If the Battery inspection is NOT ok, such as battery corner deformed, protection film damaged, cell lamination exposed, battery punctured or battery bubbled, etc, scrap immediately!



4.11 Chat Camera

Follow the 3.1 – 3.2 Disassembly instructions!

Disconnect the Battery connector and remove the fixed Screw Other Len:3.0 Diam:1.4 of the Ant Cellular Sub.

Follow the 3.5 – 3.6 Disassembly instructions!

Follow the 4.36 Removal instructions!

Prepare a new Chat Camera.

Follow the 4.36 Installation instructions!

Follow the 5.18 – 5.19 Reassembly instructions!

Tighten the fixed Screw Other Len:3.0 Diam:1.4 of the Ant Cellular Sub and press to snap the Battery connector.

Follow the 5.22 – 5.23 Reassembly instructions!



Replacement

4.12 Cushion Battery Bottom

Follow the 3.1 – 3.21 Disassembly instructions!

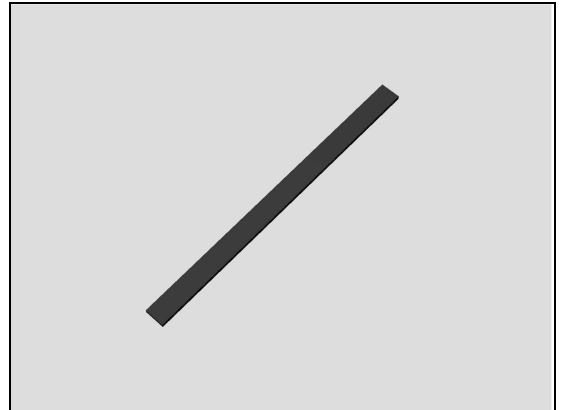
Prepare a new Cushion Battery Bottom.

Follow the 5.3 – 5.23 Reassembly instructions!

Scrap! Cushion Battery Bottom cannot be reused in case disassembled.

Note! Do not try to insert to mount the Cushion Battery Bottom without disassemble the Battery.

Cushion Battery Bottom need to be removed before disassemble the FPC USB Module and the Battery.



4.13 Display Frame Assy SS (E6853)

Follow the 3.1 – 3.22 Disassembly instructions!

Follow the 4.40, 4.55, 4.33, 4.27 and 4.57 Removal instructions!

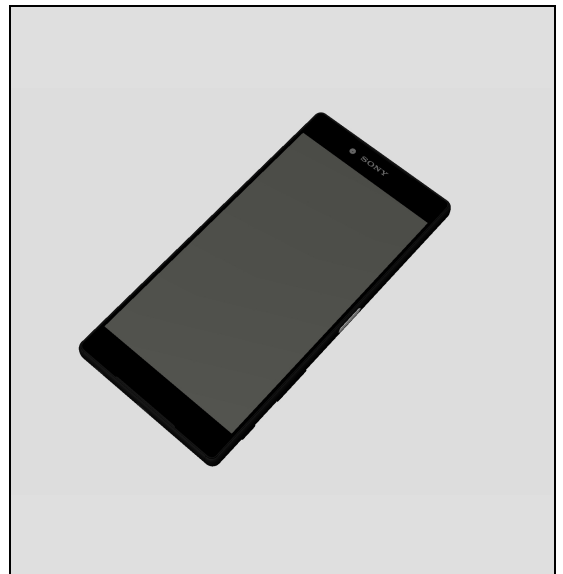
Prepare a new Display Frame Assy SS.

Follow the 4.59, 4.40, 4.55, 4.52, 4.27, 4.33, 4.41, 4.57, 4.35, 4.32 and 4.28 Installation instructions!

Follow the 5.2 – 5.23 Reassembly instructions!

Proximity Calibration must be performed for all replaced units; 1289-2983 Trouble Shooting Application – mechanical.

Secure the proper mounting of the Fingerprint Sensor Module before reassembly.



4.14 Display Frame Assy DS (E6833/E6883)

Follow the 3.1 – 3.22 Disassembly instructions!

Follow the 4.39, 4.54, 4.33, 4.27 and 4.57 Removal instructions!

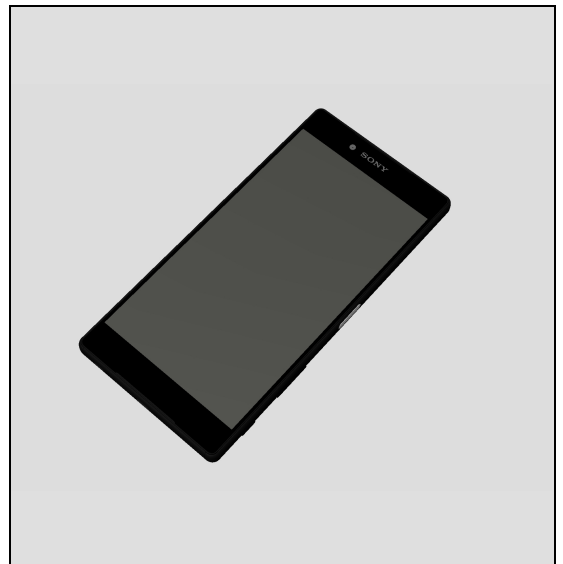
Prepare a new Display Frame Assy DS.

Follow the 4.59, 4.39, 4.54, 4.51, 4.27, 4.33, 4.41, 4.57, 4.35, 4.32 and 4.28 Installation instructions!

Follow the 5.2 – 5.23 Reassembly instructions!

Proximity Calibration must be performed for all replaced units; 1289-2983 Trouble Shooting Application – mechanical.

Secure the proper mounting of the Fingerprint Sensor Module before reassembly.



Replacement

4.15 Main Camera

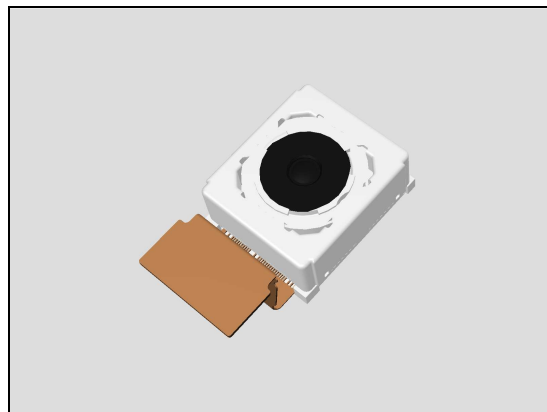
Follow the 3.1 – 3.3 Disassembly instructions!

Follow the 4.37 Removal instructions!

Prepare a new Main Camera.

Follow the 4.37 Installation instructions!

Follow the 5.21 – 5.23 Reassembly instructions!

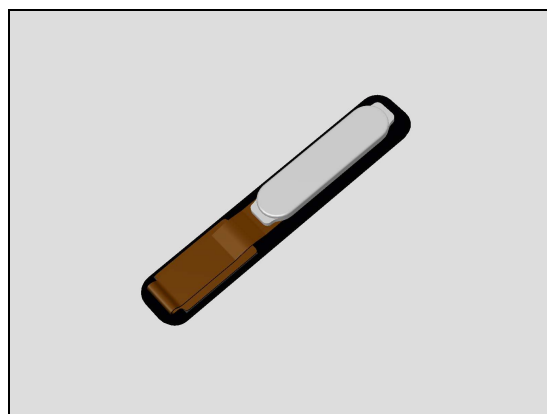


4.16 Fingerprint Sensor Module

Follow the 3.1 – 3.23 Disassembly instructions!

Prepare a new Fingerprint Sensor Module.

Follow the 5.1 – 5.23 Reassembly instructions!



4.17 FPC Key Module

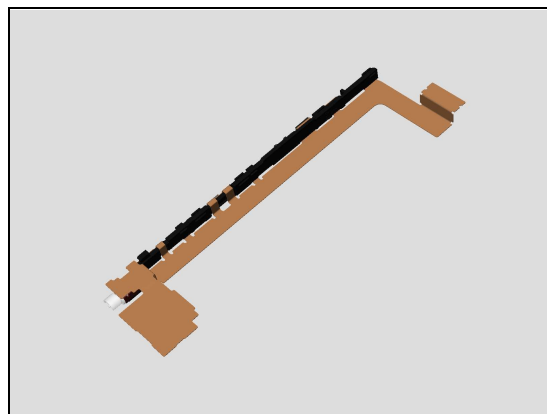
Follow the 3.1 – 3.22 Disassembly instructions!

Follow the 4.46 Removal instructions!

Prepare a new FPC Key Module.

Follow the 4.46 Installation instructions!

Follow the 5.2 – 5.23 Reassembly instructions!



4.18 FPC USB Module

Follow the 3.1 – 3.21 Disassembly instructions!

Follow the 4.38 and 4.42 Removal instructions!

Prepare a new FPC USB Module.

Follow the 4.38 and 4.42 Installation instructions!

Follow the 5.3 – 5.23 Reassembly instructions!



Replacement

4.19 Holder Battery

Follow the 3.1 – 3.2 Disassembly instructions!

Disconnect the Battery connector.

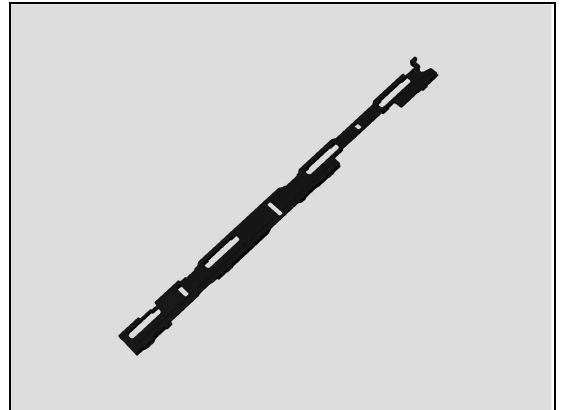
Follow the 3.7 Disassembly instructions!

Prepare a new Holder Battery.

Follow the 5.14 Reassembly instructions!

Press to snap the Battery connector.

Follow the 5.22 – 5.23 Reassembly instructions!



4.20 Holder USB

Follow the 3.1 – 3.2 Disassembly instructions!

Disconnect the Battery connector and remove the fixed Screw Other Len:3.0 Diam:1.4 of the Holder USB.

Follow the 3.8 Disassembly instructions!

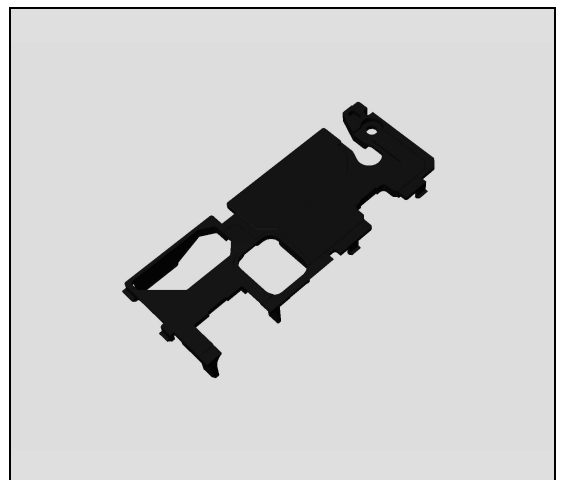
Prepare a new Holder USB.

Follow the 5.13 Reassembly instructions!

Tighten the fixed Screw Other Len:3.0 Diam:1.4 of the Holder USB and press to snap the Battery connector.

Follow the 5.22 – 5.23 Reassembly instructions!

Do not need to replace a new Cushion Battery Bottom when disassemble and reassemble the Holder USB.



4.21 Holder Vibrator

Follow the 3.1 – 3.2 Disassembly instructions!

Disconnect the Battery connector.

Follow the 3.13 – 3.16 Disassembly instructions!

Prepare a new Holder Vibrator.

Follow the 5.5 – 5.8 Reassembly instructions!

Press to snap the Battery connector.

Follow the 5.22 – 5.23 Reassembly instructions!



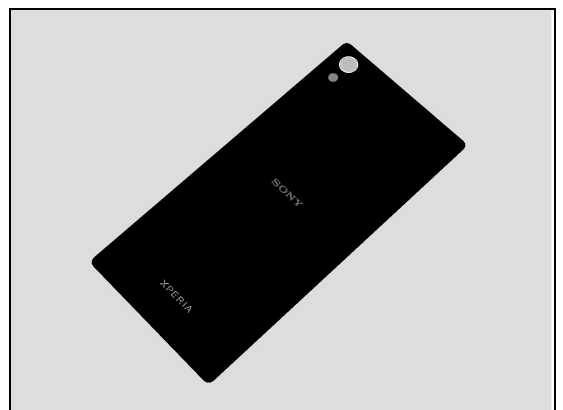
4.22 Panel Rear Sub Assy

Follow the 3.1 – 3.2 Disassembly instructions!

Prepare a new Panel Rear Sub Assy.

Follow the 4.29 and 4.45 Installation instructions!

Follow the 5.22 – 5.23 Reassembly instructions!



Replacement

4.23 Plate Speaker

Follow the 3.1 – 3.2 Disassembly instructions!

Disconnect the Battery connector.

Follow the 3.13 Disassembly instructions!

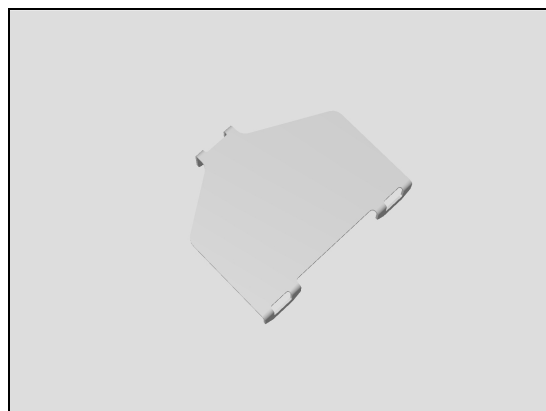
Prepare a new Plate Speaker.

Follow the 5.8 Reassembly instructions!

Press to snap the Battery connector.

Follow the 5.22 – 5.23 Reassembly instructions!

Scrap the Plate Speaker if deformed when disassembly!



4.24 Plate Vib

Follow the 3.1 – 3.2 Disassembly instructions!

Disconnect the Battery connector.

Follow the 3.14 Disassembly instructions!

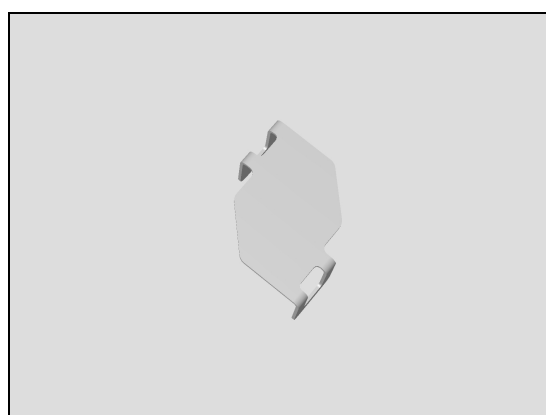
Prepare a new Plate Vib.

Follow the 5.7 Reassembly instructions!

Press to snap the Battery connector.

Follow the 5.22 – 5.23 Reassembly instructions!

Scrap the Plate Vib if deformed when disassembly!

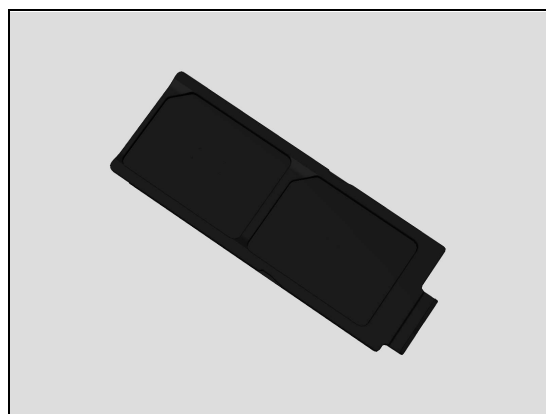


4.25 Tray Combo DS(E6833/E6883)

Follow the 3.1 Disassembly instructions!

Prepare a new Tray Combo DS.

Follow the 5.23 Reassembly instructions!

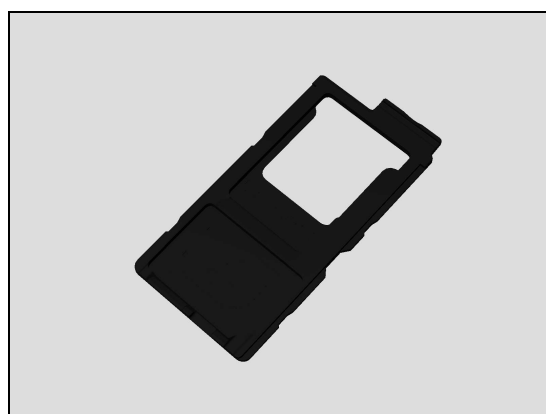


4.26 Tray Combo SS(E6853)

Follow the 3.1 Disassembly instructions!

Prepare a new Tray Combo SS.

Follow the 5.23 Reassembly instructions!



Replacement

4.27 Adhesive WP Audio Jack

Follow the 3.1 – 3.12 Disassembly instructions!
Follow the 4.33 Removal instructions!
 Prepare a new Adhesive WP Audio Jack.
Follow the 4.33 Installation instructions!
Follow the 5.9 – 5.14 and 5.18 – 5.23 Reassembly instructions!

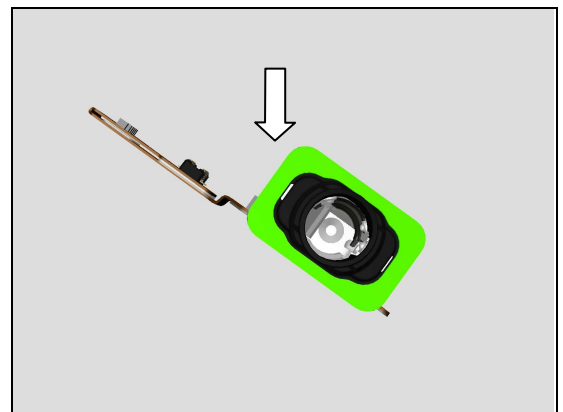
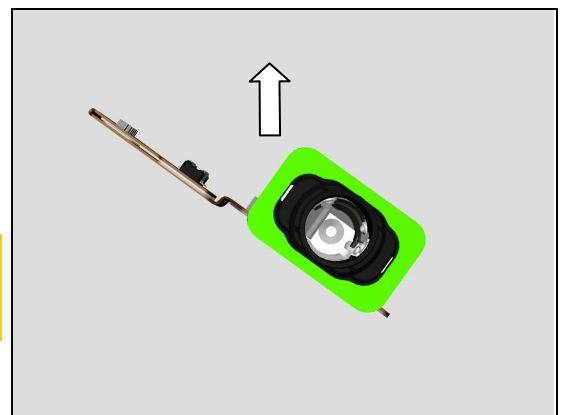
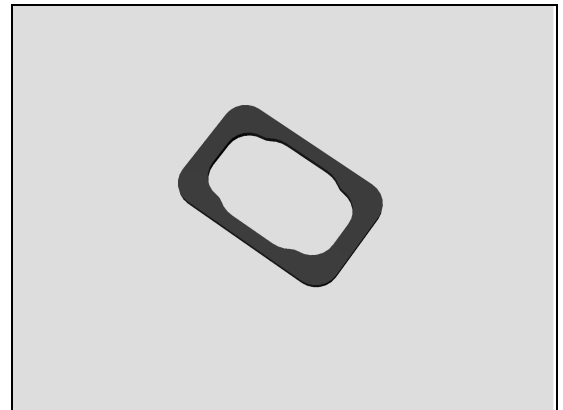
REMOVAL

Detach the Adhesive WP Audio Jack and remove it with a pair of Plastic Tweezers.

Scrap! Not to be reused!
Make sure all remaining adhesive residue have been removed!

INSTALLATION

Attach a new Adhesive WP Audio Jack by using a pair of Plastic Tweezers as shown in picture.



Replacement

4.28 Adhesive WR Panel Rear

Follow the 3.1 – 3.2 Disassembly instructions!
 Prepare a new Adhesive WR Panel Rear.
Follow the 5.22 – 5.23 Reassembly instructions!

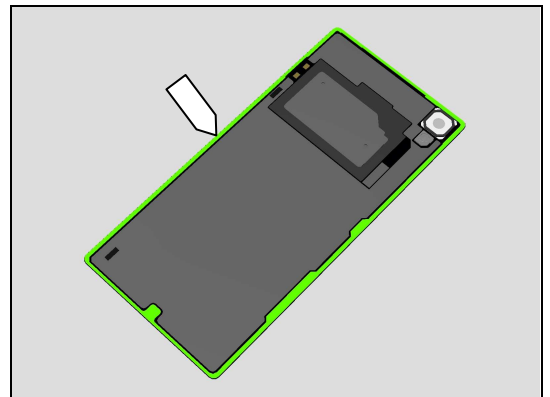
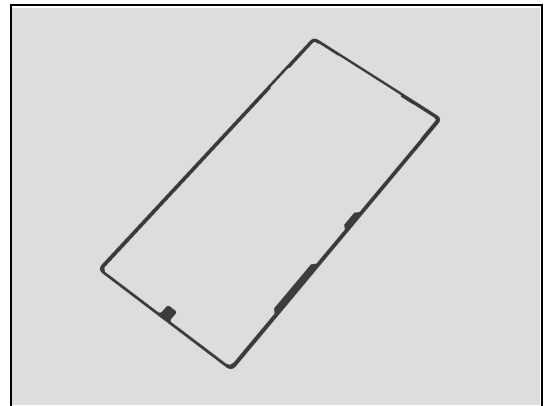
REMOVAL

Detach to remove the Adhesive WR Panel Rear with fingers.

Scrap! Not to be reused!

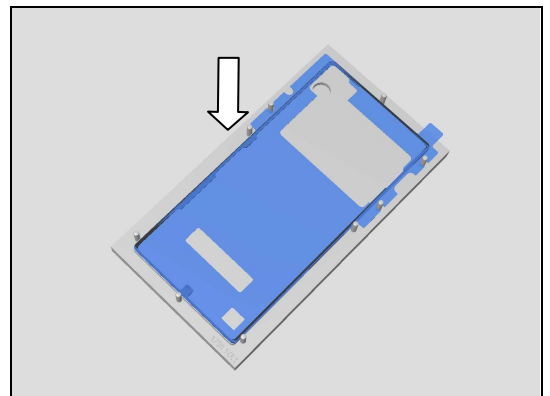
Note! Do not damage or scratch the Panel Rear Sub Assy.

Make sure all remaining adhesive residue have been removed!



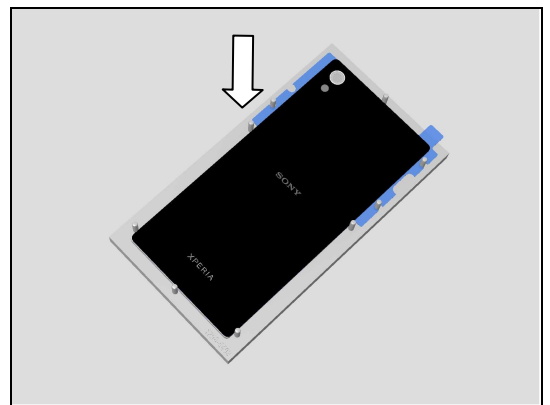
INSTALLATION

Place a new Adhesive WR Panel Rear with protection film onto the Rear Panel Adhesive Alignment Fixture as shown in picture.



Place the old Panel Rear Sub Assy above the Adhesive WR Panel Rear and press by hand.

Important to make sure that old adhesive residues is removed before installation because of WRT requirement!



Replacement

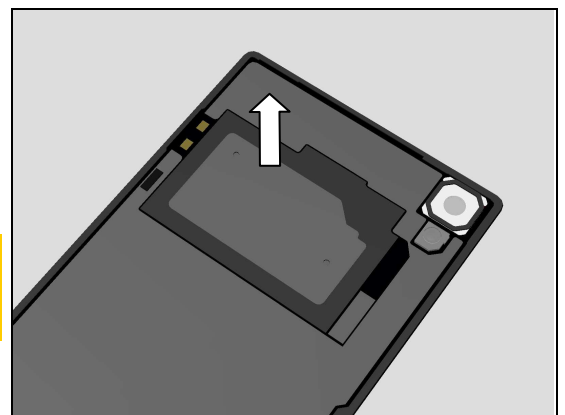
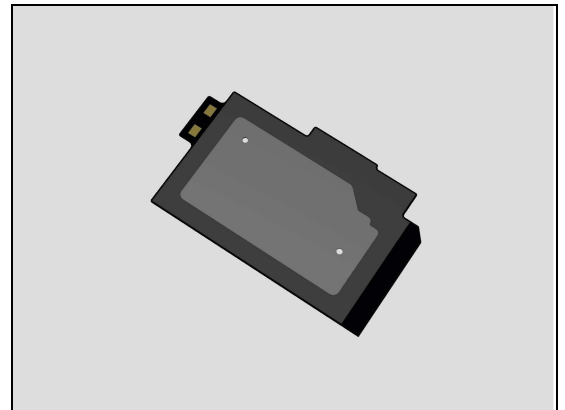
4.29 Antenna NFC

Follow the 3.1 – 3.2 Disassembly instructions!
 Prepare a new Antenna NFC.
Follow the 4.45 Installation instructions!
Follow the 5.22 – 5.23 Reassembly instructions!

REMOVAL

Detach the Antenna NFC and Sheet BtoB Battery to remove it.

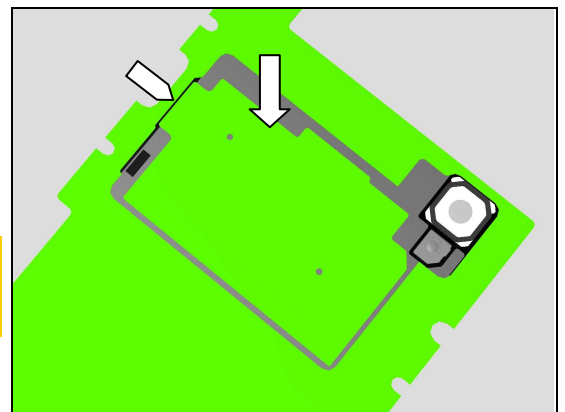
Scrap! Not to be reused!
Make sure all remaining adhesive residue have been removed!



INSTALLATION

Attach a new Antenna NFC by using protection film of the Adhesive WR Panel Rear for alignment as shown in picture.

Note! Secure the correct position of the Antenna NFC, so that the contact pads of the Antenna NFC can be well contacted to the contact pins on the Main PBA.



Replacement

4.30 Cap 1st Mic Sub Assy

Follow the 3.1 – 3.12 Disassembly instructions!
 Prepare a new Cap 1st Mic Sub Assy.
Follow the 5.9 – 5.14 and 5.18 – 5.23 Reassembly instructions!

REMOVAL

Detach to remove the Cap 1st Mic Sub Assy.

Scrap! Not to be reused!

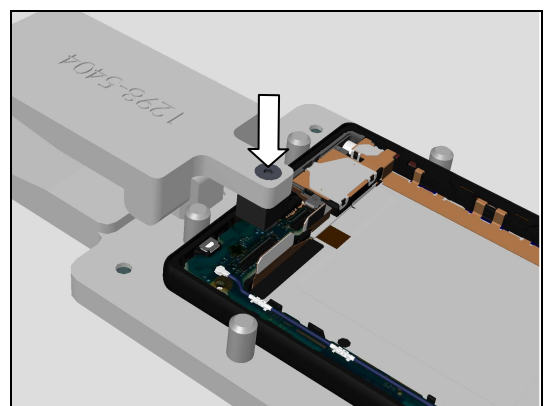
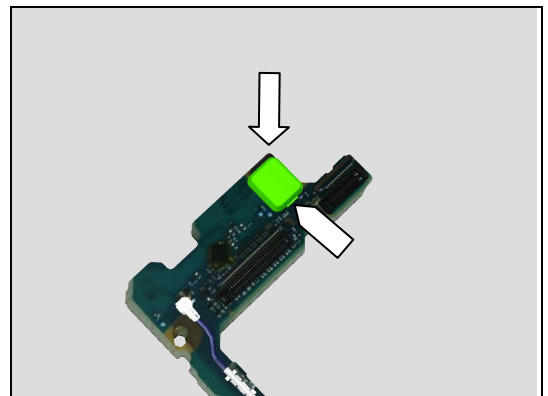
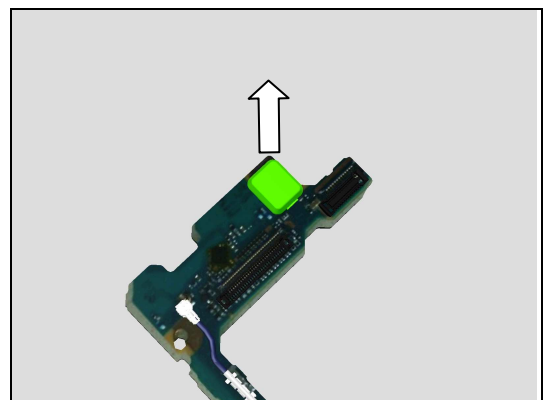
**Note! Do not damage the 1st Mic on the Main PBA.
 Make sure all remaining adhesive residue have been removed!**

INSTALLATION

Attach a new Cap 1st Mic Sub Assy as shown in picture.

**Note the correct orientation of the Cap 1st Mic Sub Assy
 to be installed as shown in picture!**

Press it by using the Press Clamp Mic for 5 seconds.



Replacement

4.31 Cap Combo Sub Assy

Prepare a new Cap Combo Sub Assy.

REMOVAL

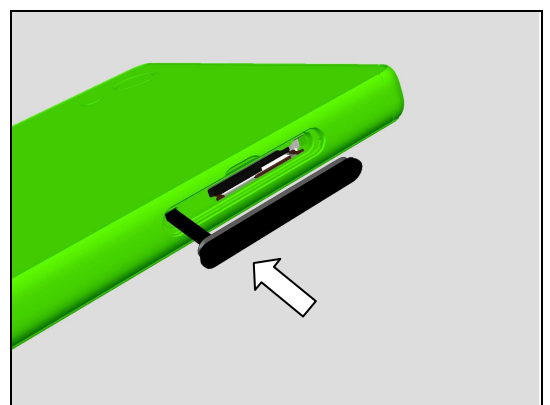
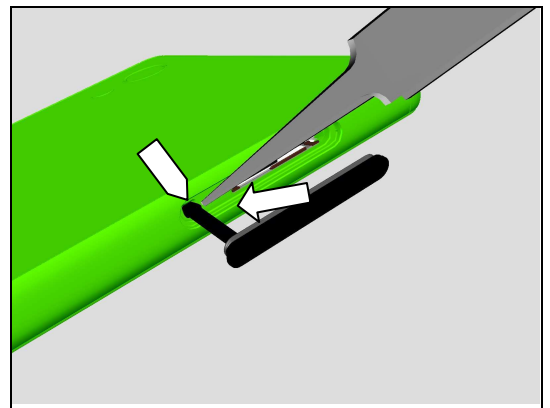
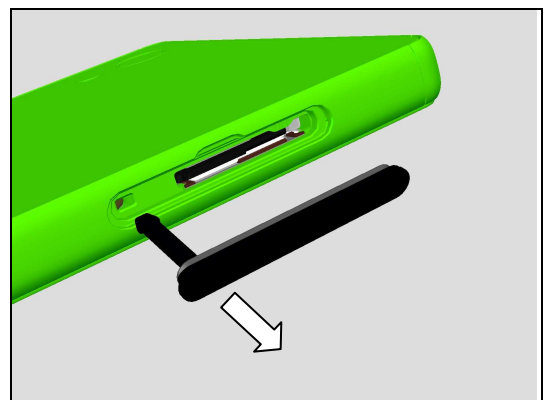
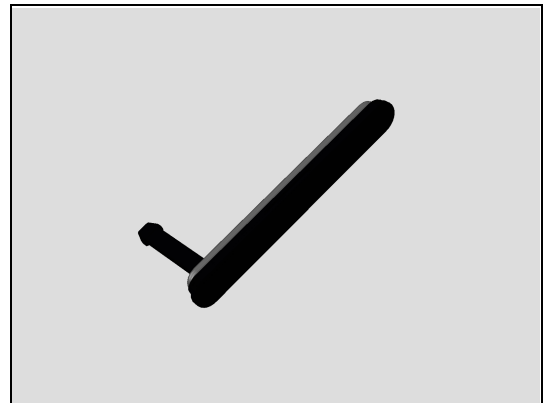
Pull out the Cap Combo Sub Assy and remove it.

Scrap! Not to be reused!

INSTALLATION

Push by using a pair of pointed plastic tweezers to insert the Cap Combo Sub Assy into its hole as shown in picture.

Close the Cap Combo Sub Assy.



Replacement

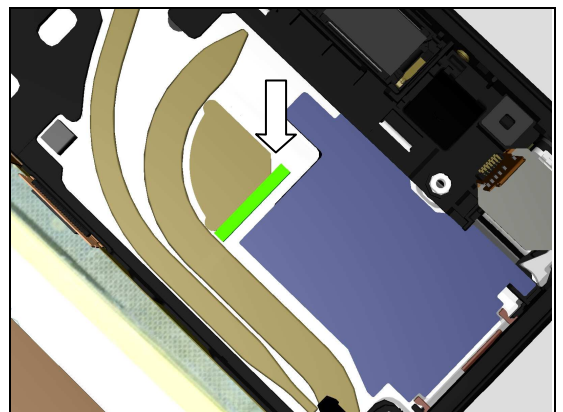
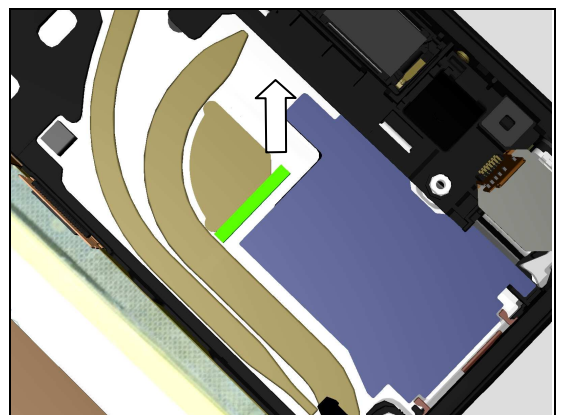
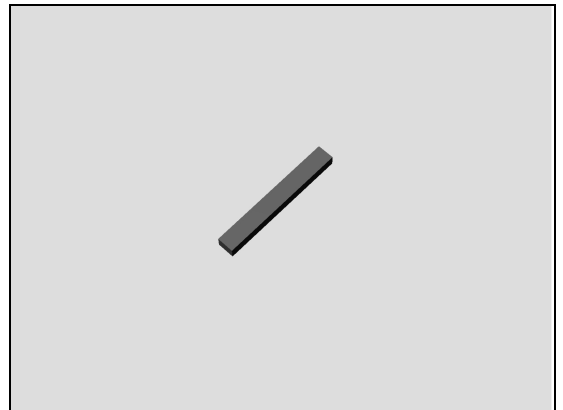
4.32 Cushion TGF

Follow the 3.1 – 3.12 Disassembly instructions!
 Prepare a new Cushion TGF.
Follow the 5.9 – 5.14 and 5.18 – 5.23 Reassembly instructions!

REMOVAL

Detach Cushion TGF and remove it with a pair of Plastic Tweezers.

Scrap! Not to be reused!
Make sure all remaining adhesive residue have been removed!



INSTALLATION

Attach a new Cushion TGF by using a pair of Plastic Tweezers as shown in picture.

Replacement

4.33 FPC Jack Module and Sheet Shade Audio Jack

Follow the 3.1 – 3.12 Disassembly instructions!

Prepare a new FPC Jack Module and Sheet Shade Audio Jack.

Follow the 5.9 – 5.14 and 5.18 – 5.23 Reassembly instructions!

Noise Cancelling Calibration must be performed for all replaced units; 1289-2983 Trouble Shooting Application – mechanical.

Do not need to scrap the old Sheet Shade Audio Jack if reuse the FPC Jack Module.

REMOVAL

Insert the Front Opening Tool between FPC Jack Module and Display Frame Assy and slide to detach the FPC Jack Module.

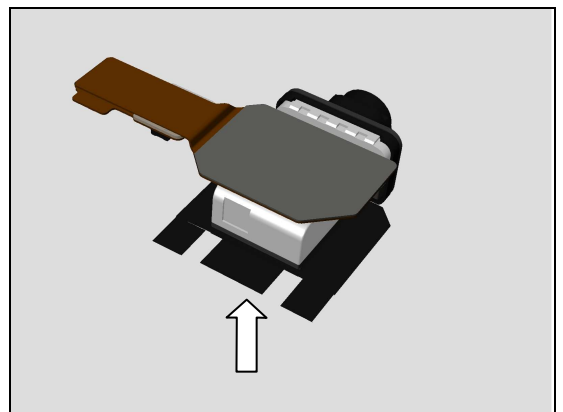
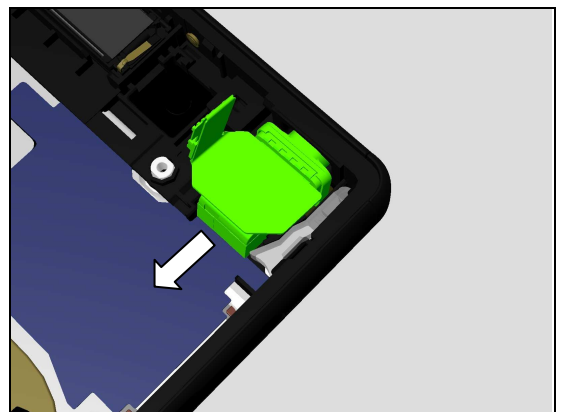
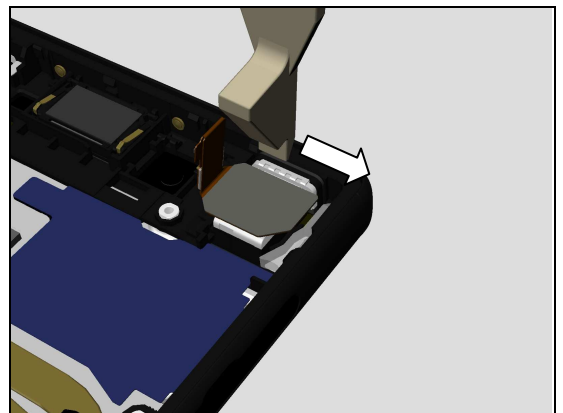
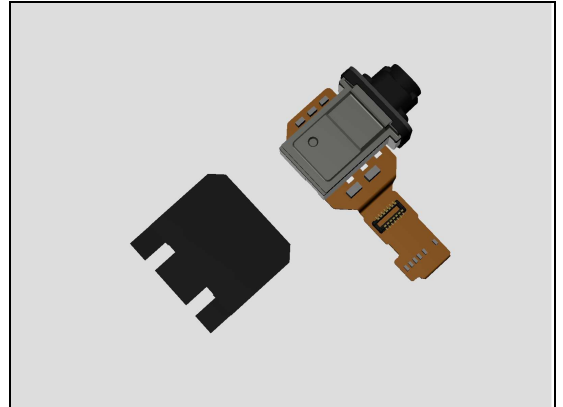
Remove the FPC Jack Module.

Note! Lift the FPC Jack Module a little to avoid metal plate blocking it.

INSTALLATION

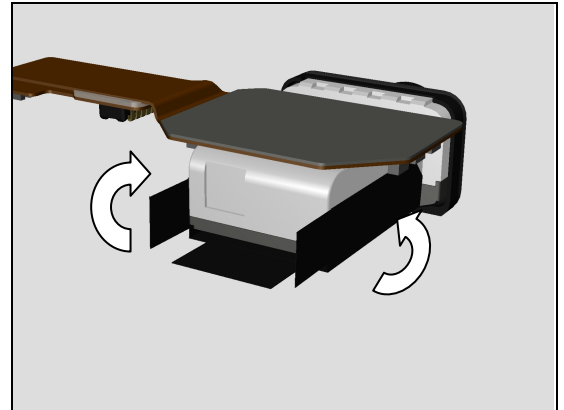
Attach a new Sheet Shade Audio Jack in its proper position as shown in picture.

Scrap the old Sheet Shade Audio Jack if replace a new FPC Jack Module!

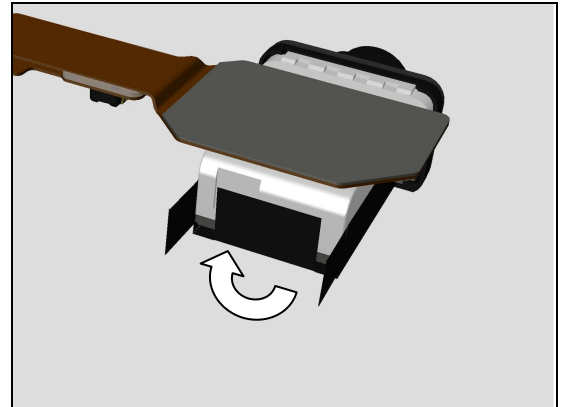


Replacement: FPC Jack Module and Sheet Shade Audio Jack

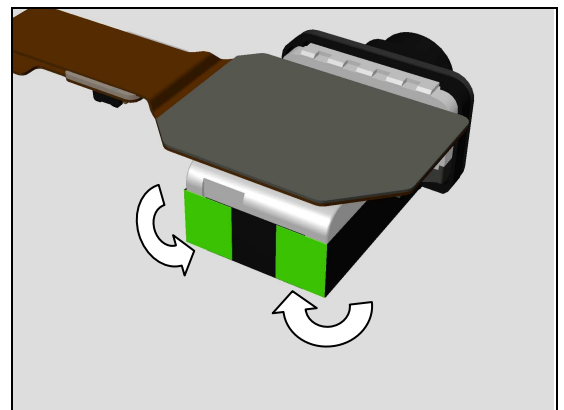
Attach these two sides of the Sheet Shade Audio Jack as shown in picture.



Attach this side of the Sheet Shade Audio Jack as shown in picture.



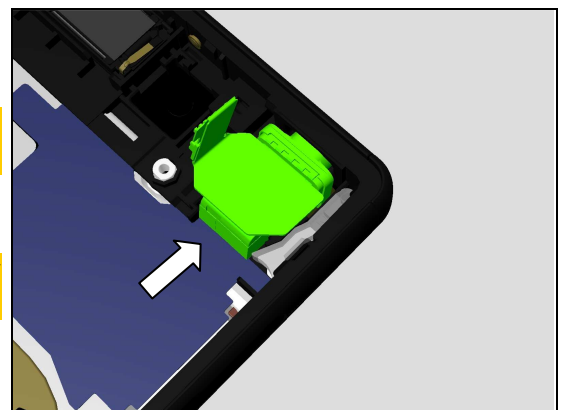
Attach these two sides of the Sheet Shade Audio Jack as shown in picture.



Follow the 4.27 disassemble and reassemble to replace a new Adhesive WP Audio Jack.

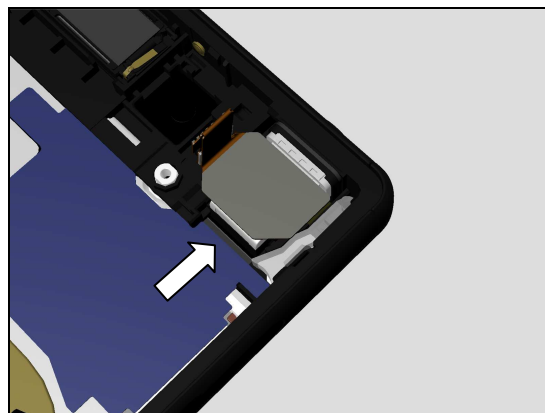
Insert to mount a new FPC Jack Module into its hole as shown in picture.

Make sure all remaining adhesive residue on the Display Frame Assy have been removed!

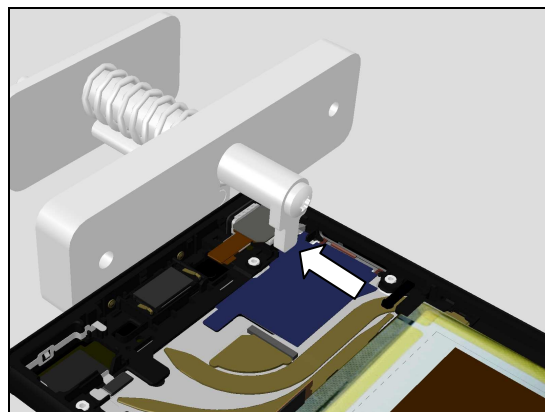


Replacement: FPC Jack Module and Sheet Shade Audio Jack

Secure the FPC Jack Module onto its proper position.



Press it by using the FPC Jack Module Press for 10 seconds.



Replacement

4.34 Gasket Chat camera

Follow the 3.1 – 3.2 Disassembly instructions!

Disconnect the Battery connector and remove the fixed Screw Other Len:3.0 Diam:1.4 of the Ant Cellular Sub.

Follow the 3.5 Disassembly instructions!

Prepare a new Gasket Chat camera.

Follow the 5.19 Reassembly instructions!

Tighten the fixed Screw Other Len:3.0 Diam:1.4 of the Ant Cellular Sub and press to snap the Battery connector.

Follow the 5.22 – 5.23 Reassembly instructions!

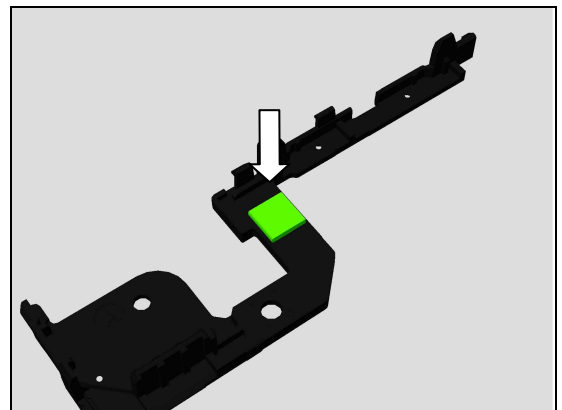
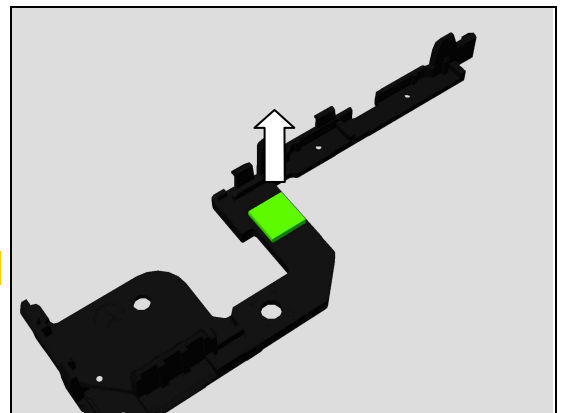
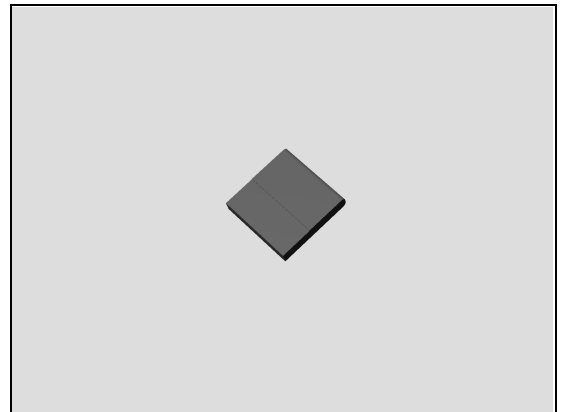
REMOVAL

Detach the Gasket Chat camera.

Scrap! Not to be reused!

INSTALLATION

Attach a new Gasket Chat camera as shown in picture.



Replacement

4.35 Gasket Plate Display

Follow the 3.1 – 3.12 Disassembly instructions!
 Prepare a new Gasket Plate Display.
Follow the 5.9 – 5.14 and 5.18 – 5.23 Reassembly instructions!

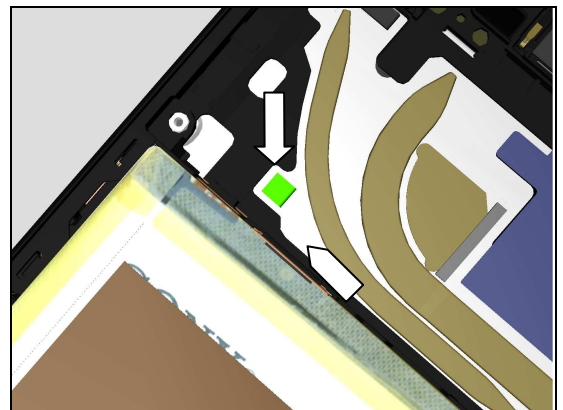
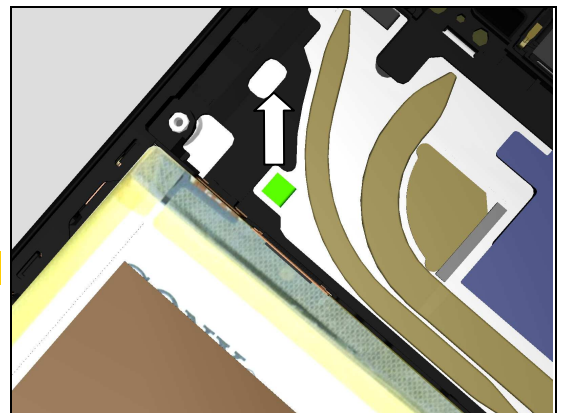
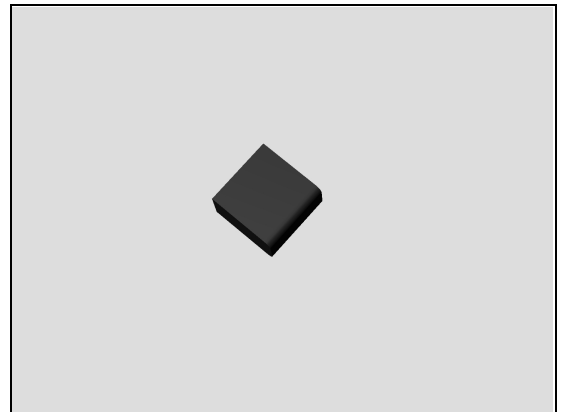
REMOVAL

Detach the Gasket Plate Display.

Scrap! Not to be reused!

INSTALLATION

Attach a new Gasket Plate Display as shown in picture.



Replacement

4.36 Holder Chat Camera

Follow the 3.1 – 3.2 Disassembly instructions!

Disconnect the Battery connector and remove the fixed Screw Other Len:3.0 Diam:1.4 of the Ant Cellular Sub.

Follow the 3.5 – 3.6 Disassembly instructions!

Prepare a new Holder Chat Camera.

Follow the 5.18 – 5.19 Reassembly instructions!

Tighten the fixed Screw Other Len:3.0 Diam:1.4 of the Ant Cellular Sub and press to snap the Battery connector.

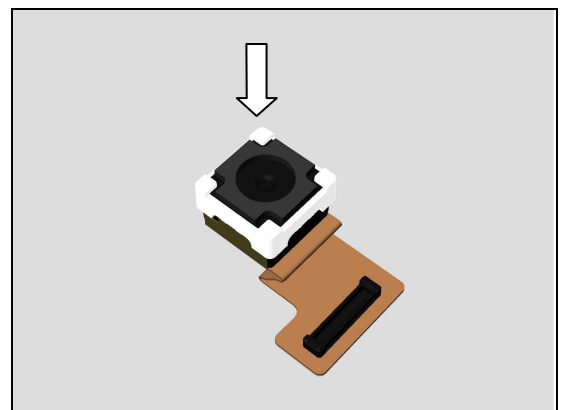
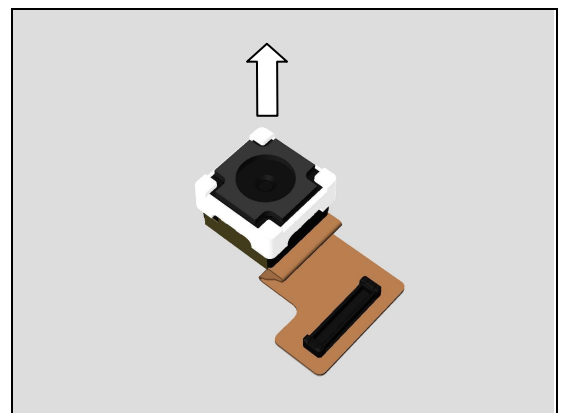
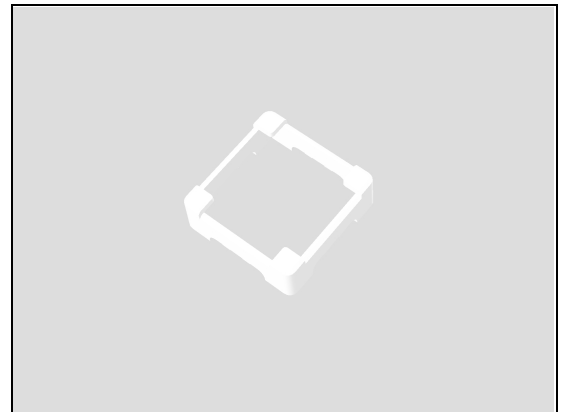
Follow the 5.22 – 5.23 Reassembly instructions!

REMOVAL

Remove the Holder Chat Camera.

INSTALLATION

Mount a new Holder Chat Camera.



Replacement

4.37 Holder Main Camera

Follow the 3.1 – 3.3 Disassembly instructions!
Prepare a new Holder Main Camera.
Follow the 5.21 – 5.23 Reassembly instructions!

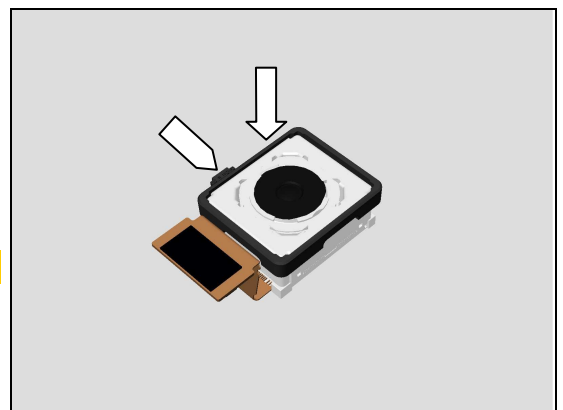
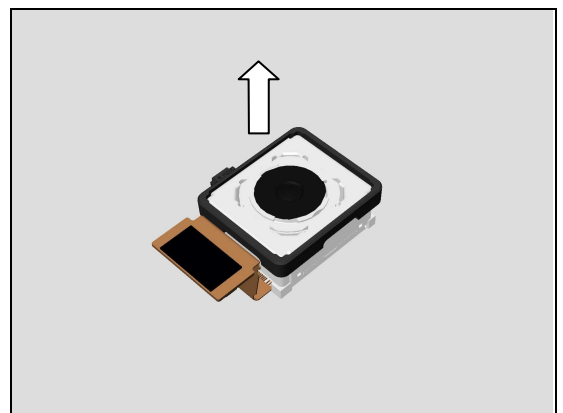
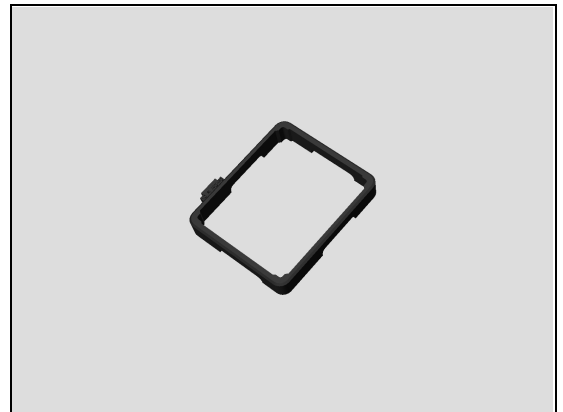
REMOVAL

Remove the Holder Main Camera.

INSTALLATION

Mount a new Holder Main Camera.

Note the correct orientation of the Holder Main Camera.



Replacement

4.38 Holder USB GND

Follow the 3.1 – 3.21 Disassembly instructions!

Prepare a new Holder USB GND.

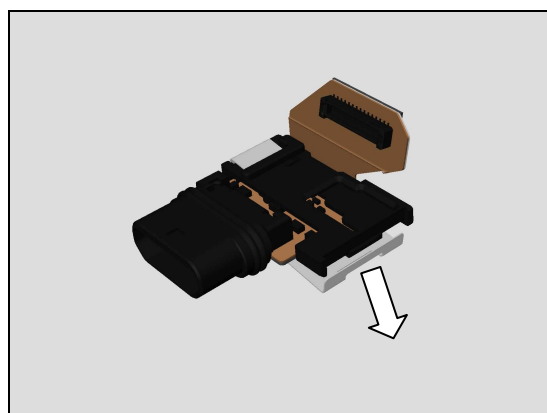
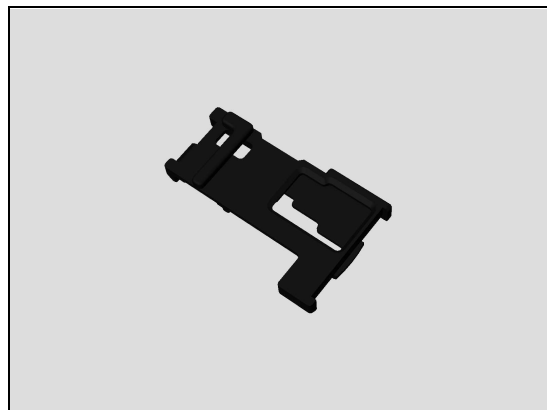
Follow the 5.3 – 5.23 Reassembly instructions!

REMOVAL

Release the Plate USB GND from this side as shown in picture.

Remove the Plate USB GND.

Remove the Holder USB GND.



Replacement: Holder USB GND

INSTALLATION

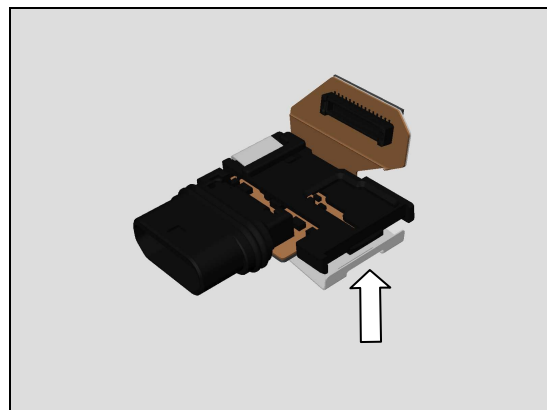
Mount a new Holder USB GND in its correct position as shown in picture.

Note! Do not damage the components on the FPC USB Module.

Mount the Plate USB GND from this side.

Snap to mount the Plate USB GND from this side.

Secure correct mounting after assembly.



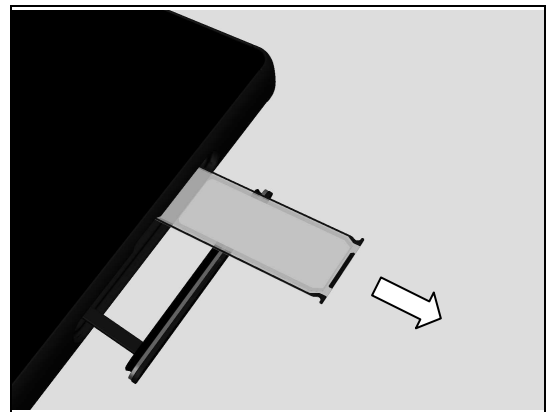
Replacement

4.39 Label MoP DS (E6833/E6883)

Prepare a new Label MoP DS.

REMOVAL

Pull out the Sheet Slider MoP DS with fingers.

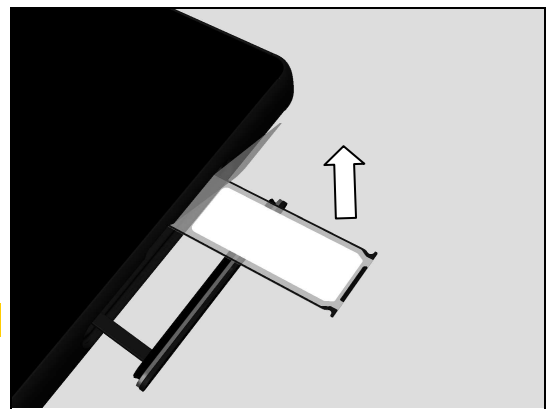


Lift the protection film.

Read this side of the old Label MoP DS and/or write the information into the 'Label Print Solution' program before removal.

Carefully remove this side of the Label MoP DS by using the Flex Film Assembly Tool.

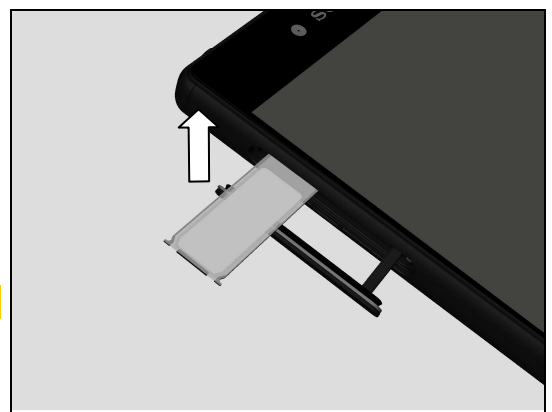
Scrap! Not to be reused!



Read the other side of the old Label MoP DS and/or write the information into the 'Label Print Solution' program before removal.

Carefully remove the other side of the Label MoP DS by using the Flex Film Assembly Tool.

Scrap! Not to be reused!

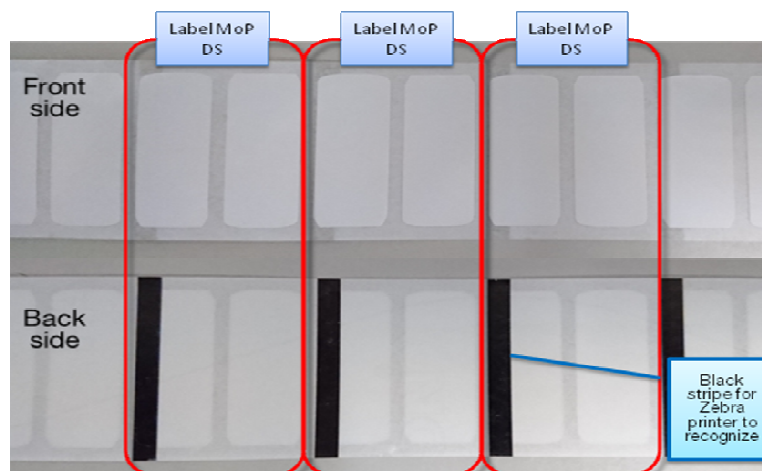
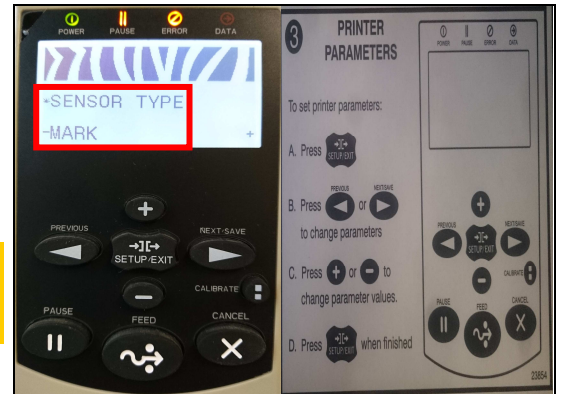


Replacement: Label MoP DS (E6833/E6883)

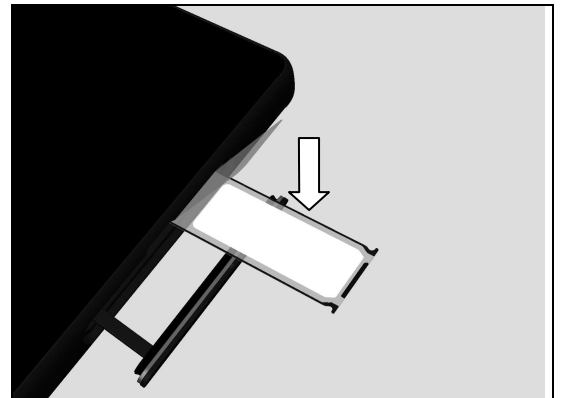
INSTALLATION

Check that the label format is properly loaded in the Zebra printer and write a new Label using the 'Label Print Solution' software.

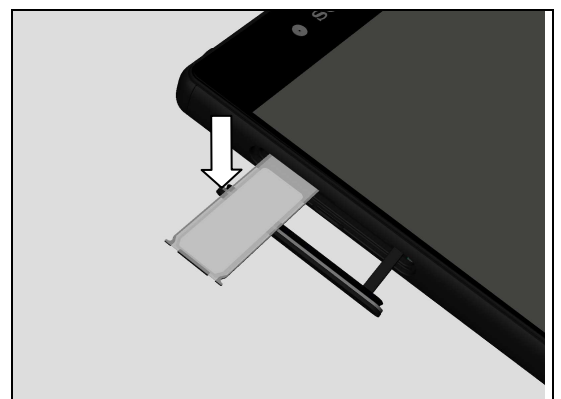
Note! Change the parameter of "SENSOR TYPE" from "WEB" to "MARK" so that the Zebra printer can recognize the Label MoP DS correctly.



Attach a new Label MoP DS on this side in its proper position as shown in picture.

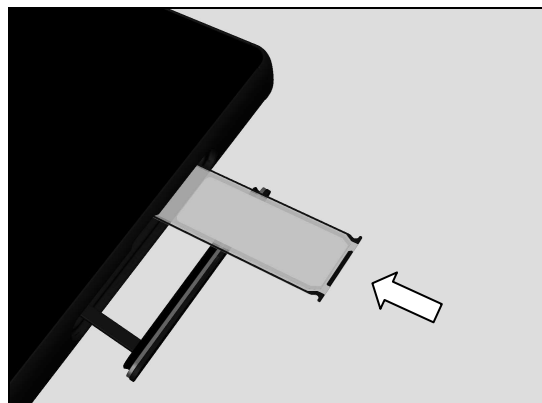


Attach a new Label MoP DS on the other side in its proper position as shown in picture.



Replacement: Label MoP DS (E6833/E6883)

Push the Sheet Slider MoP DS into the slot.



Replacement

4.40 Label MoP SS (E6853)

Prepare a new Label MoP SS.

REMOVAL

Pull out the Sheet Slider MoP SS with fingers.

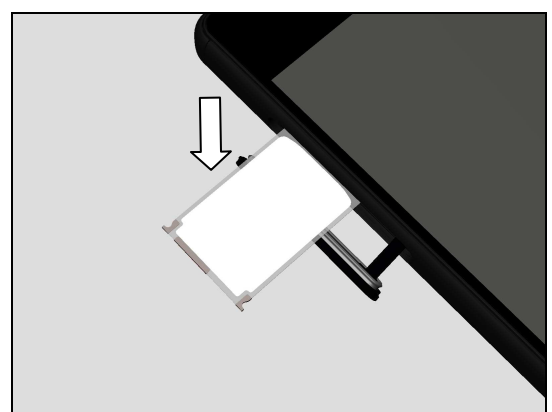
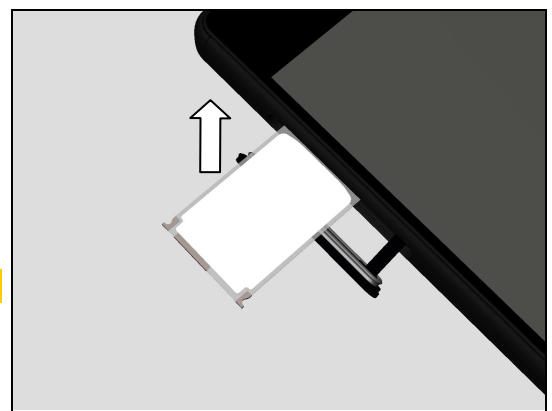
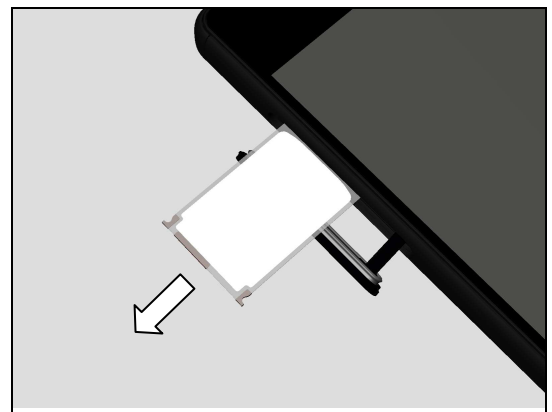
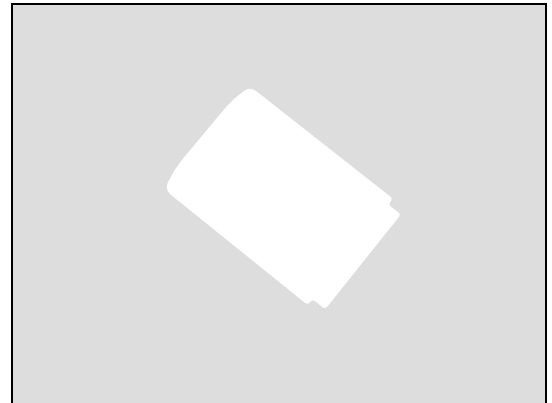
Read the old Label MoP SS and/or write the information into the 'Label Print Solution' program before removal.
Carefully remove the Label MoP SS by using the Flex Film Assembly Tool.

Scrap! Not to be reused!

INSTALLATION

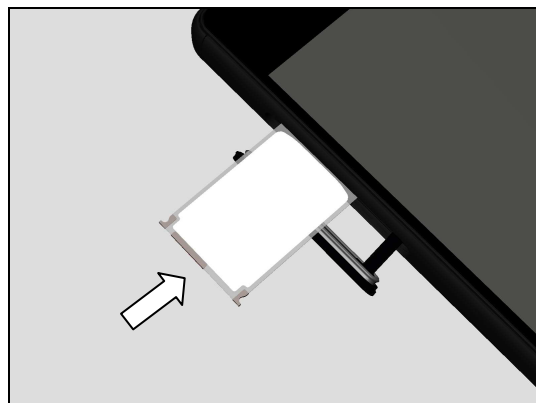
Check that the label format is properly loaded in the Zebra printer and write a new Label using the 'Label Print Solution' software.

Attach a new Label MoP SS in its proper position as shown in picture.



Replacement: Label MoP SS (E6853)

Push the Sheet Slider MoP SS into the slot.



Replacement

4.41 Speaker Top, Adhesive WR Speaker and Cushion Aco

Follow the 3.1 – 3.12 Disassembly instructions!

Prepare a new Speaker Top, Adhesive WR Speaker and Cushion Aco.

Follow the 5.9 – 5.14 and 5.18 – 5.23 Reassembly instructions!

Important! After replacing the Speaker Top, flash the phone by Customize or Refurbish or SUCE (not SU) in EMMA.

REMOVAL

Detach to remove the Speaker Top and Cushion Aco by using the pointed plastic tweezers.

Scrap! Not to be reused!

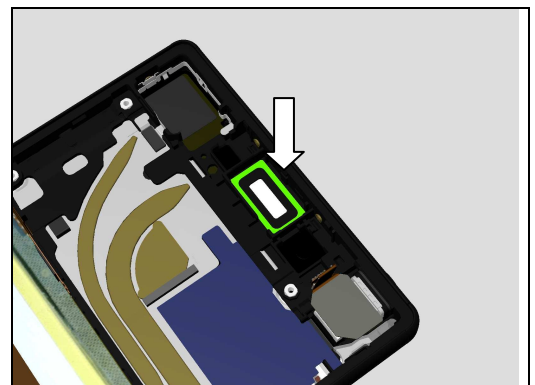
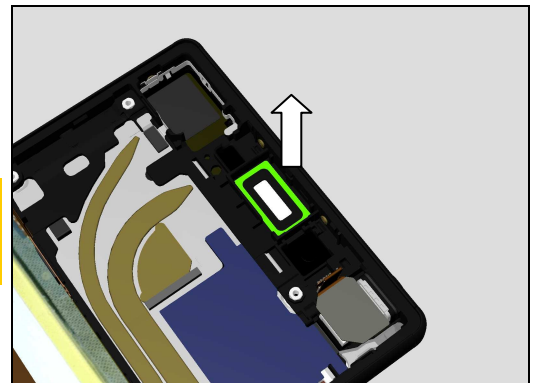
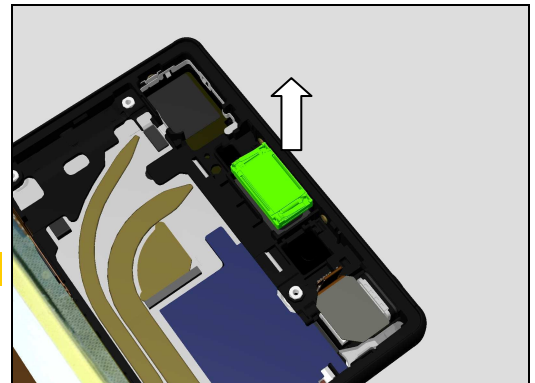
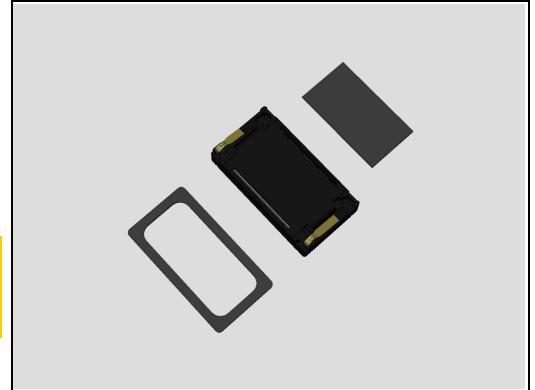
Detach to remove the Adhesive WR Speaker by using the Front Opening Tool.

Scrap! Not to be reused!

Make sure all remaining adhesive residue have been removed!

INSTALLATION

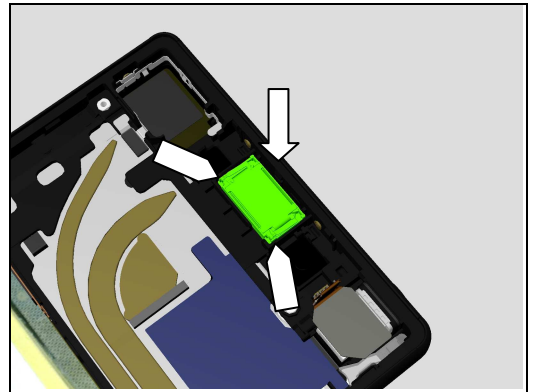
Attach a new Adhesive WR Speaker in its proper position as shown in picture.



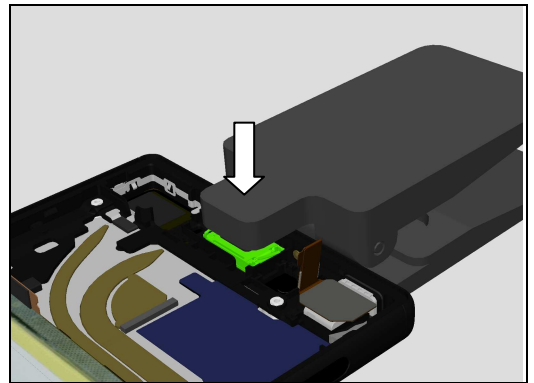
Replacement: Speaker Top, Adhesive WR Speaker and Cushion Aco

Mount a new Speaker Top in its cavity.

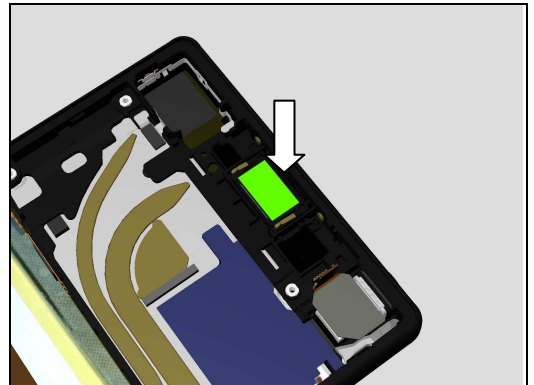
Note the correct orientation of the Speaker Top contact spring to be installed as shown in picture!



Press it by using the Press Tool for Speaker Top for 5 seconds.



Attach a new Cushion Aco in its proper position as shown in picture.



Replacement

4.42 Plate USB GND and Sheet Insulator USB

Follow the 3.1 – 3.21 Disassembly instructions!
Prepare a new Plate USB GND and Sheet Insulator USB.
Follow the 5.3 – 5.23 Reassembly instructions!

Do not need to scrap the old Sheet Insulator USB if reuse the Plate USB GND!

REMOVAL

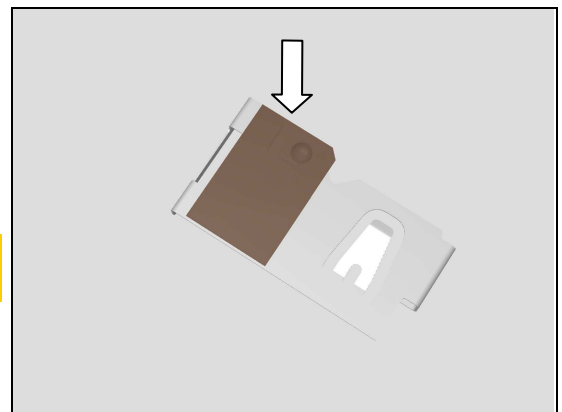
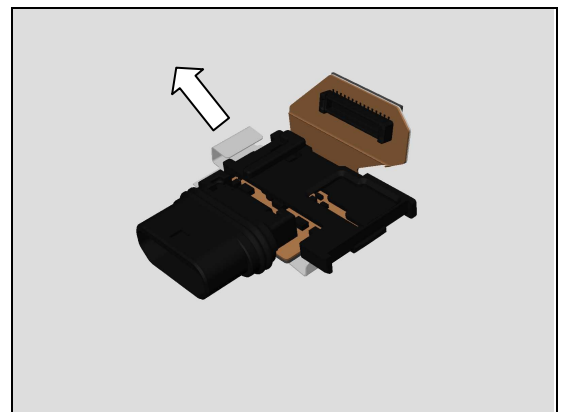
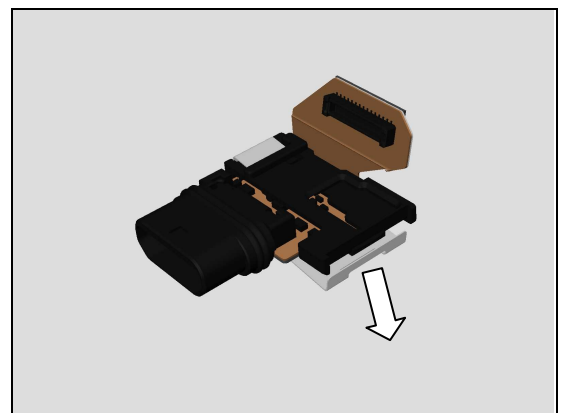
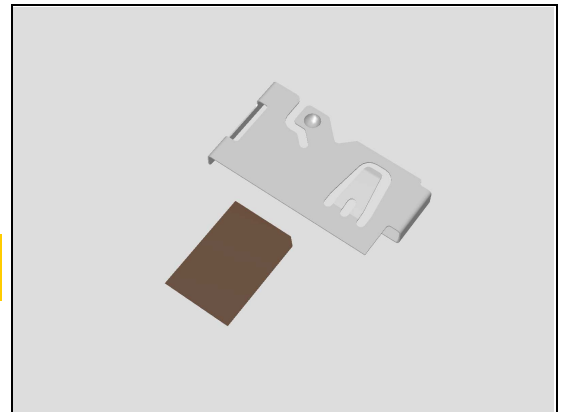
Release the Plate USB GND from this side as shown in picture.

Remove the Plate USB GND.

INSTALLATION

Attach a new Sheet Insulator USB as shown in picture.

Scrap the old Sheet Insulator USB if replace a new Plate USB GND!



Replacement: Plate USB GND and Sheet Insulator USB

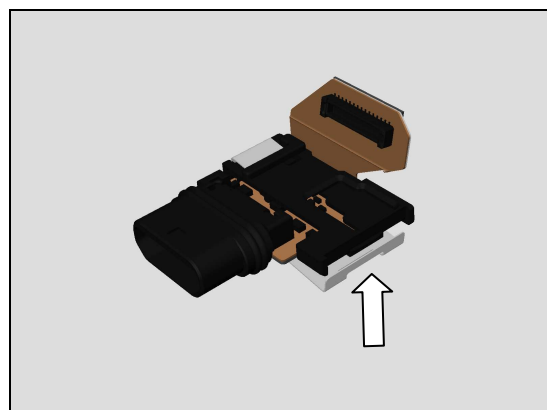
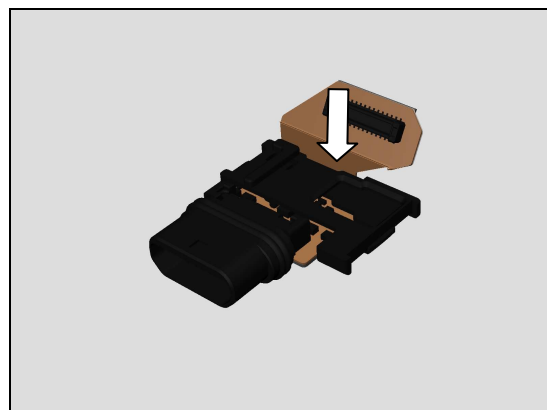
Check the correct position of the Holder USB GND before assembly.

Note! Do not damage the components on the FPC USB Module.

Mount the Plate USB GND from this side.

Snap to mount the Plate USB GND from this side.

Secure correct mounting after assembly.



Replacement

4.43 RF Cable

Follow the 3.1 – 3.2 Disassembly instructions!
 Disconnect the Battery connector and remove the fixed
 Screw Other Len:3.0 Diam:1.4 of the Holder USB.
 Follow the 3.7 – 3.8 Disassembly instructions!
 Prepare a new RF Cable.
 Follow the 5.13 – 5.14 Reassembly instructions!
 Tighten the fixed Screw Other Len:3.0 Diam:1.4 of the
 Holder USB and press to snap the Battery connector.
 Follow the 5.22 – 5.23 Reassembly instructions!

REMOVAL

Disconnect RF Cable connectors.

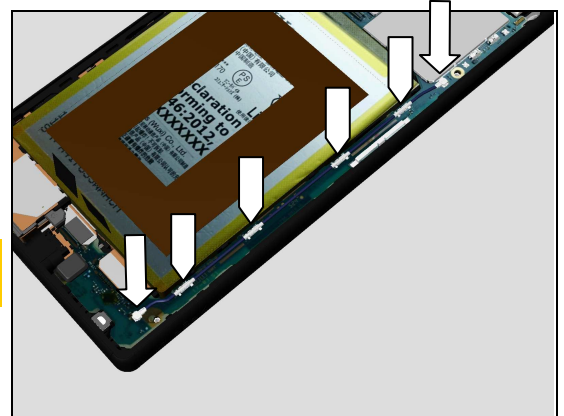
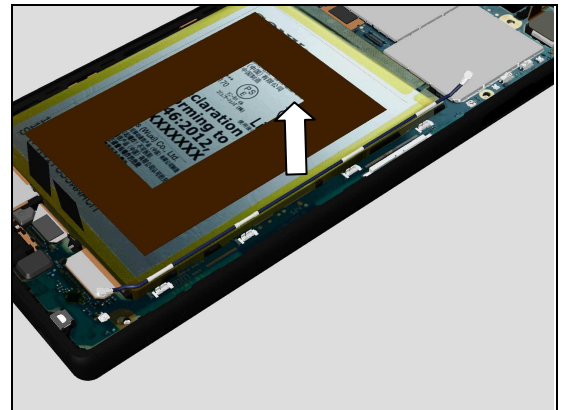
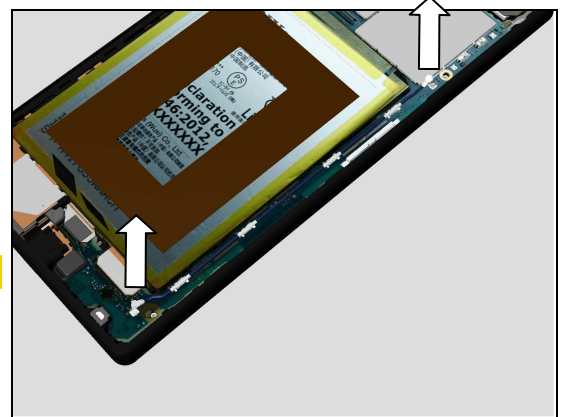
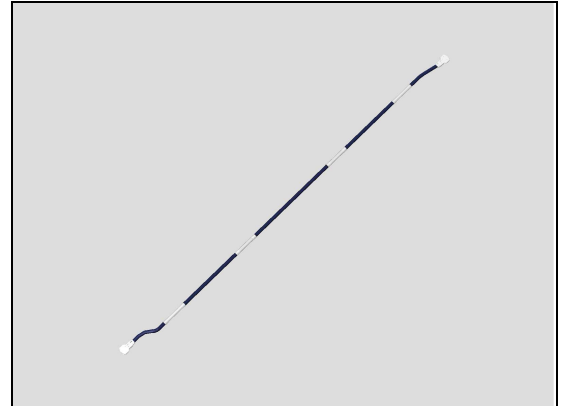
Do not damage components on the Main PBA!

Remove the RF Cable.

INSTALLATION

Press to snap the RF cable connectors.

Note! Make sure the four metal parts of the RF Cable are mounted into the clips.



Replacement

4.44 Sheet Battery Rear

Follow the 3.1 – 3.2 Disassembly instructions!
Disconnect the Battery connector.
 Prepare a new Sheet Battery Rear.
Press to snap the Battery connector.
Follow the 5.22 – 5.23 Reassembly instructions!

REMOVAL

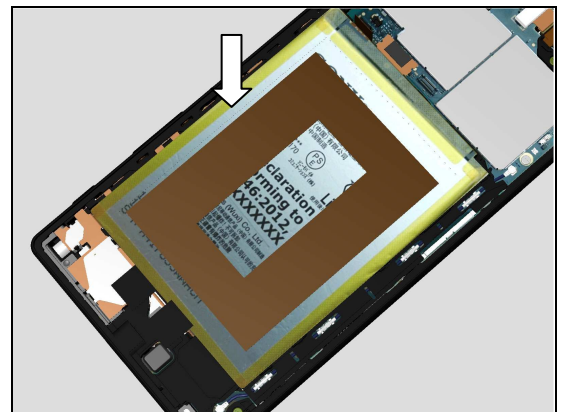
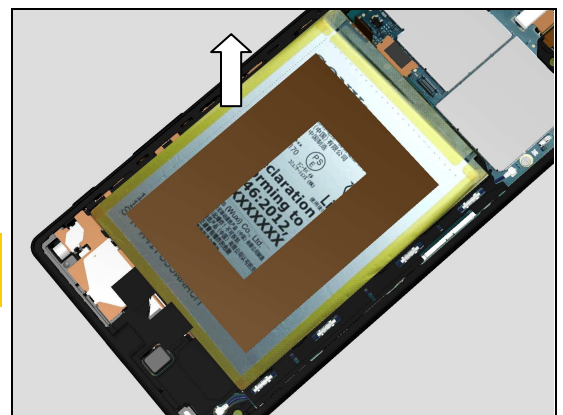
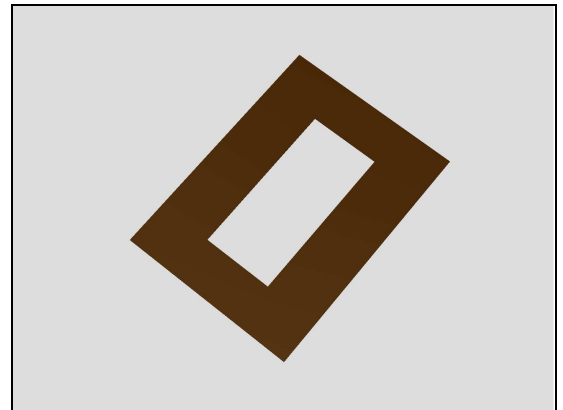
Detach the Sheet Battery Rear.

Scrap! Not to be reused!

Be careful! Do not damage the Battery.

INSTALLATION

Attach a new Sheet Battery Rear in its proper position as shown in picture.



Replacement

4.45 Sheet BtoB Battery

Follow the 3.1 – 3.2 Disassembly instructions!
 Prepare a new Sheet BtoB Battery.
Follow the 5.22 – 5.23 Reassembly instructions!

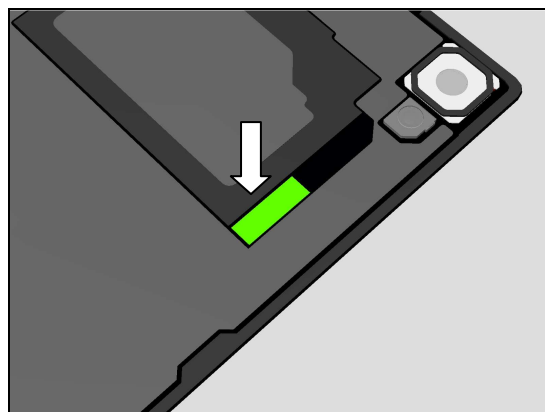
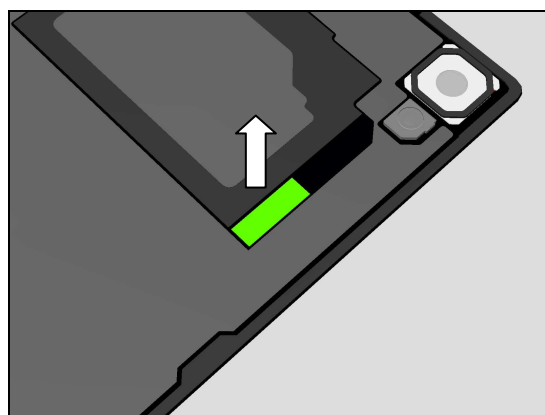
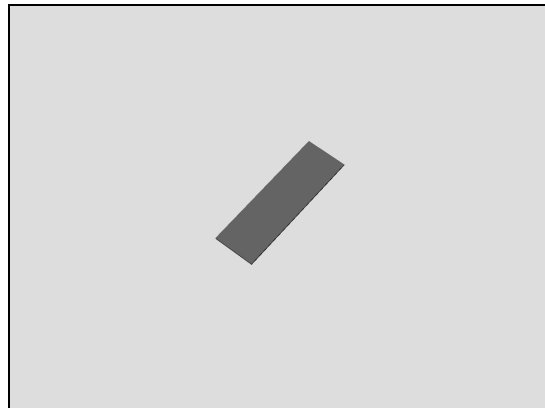
REMOVAL

Detach the Sheet BtoB Battery.

Scrap! Not to be reused!

INSTALLATION

Attach a new Sheet BtoB Battery in its proper position.



Replacement

4.46 Sheet BtoB Key

Follow the 3.1 – 3.2 Disassembly instructions!
Disconnect the Battery connector.
 Prepare a new Sheet BtoB Key.
Press to snap the Battery connector.
 Follow the 5.22 – 5.23 Reassembly instructions!

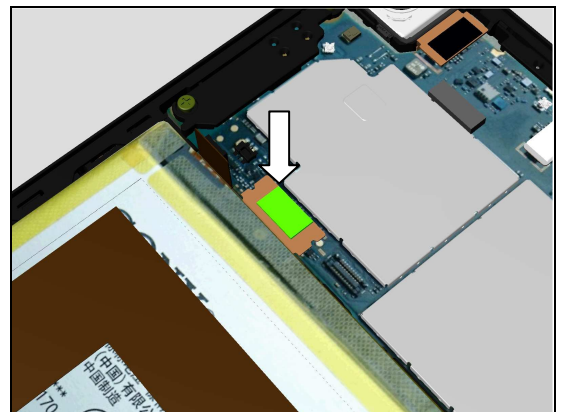
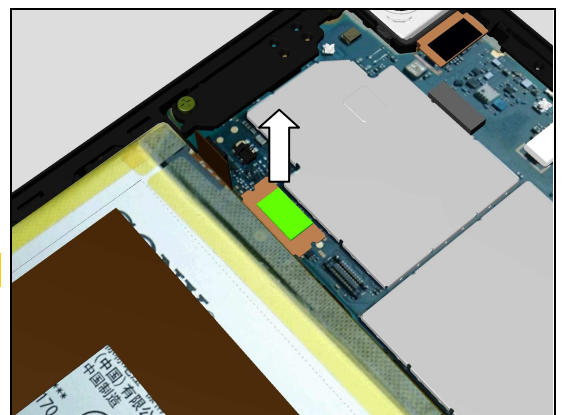
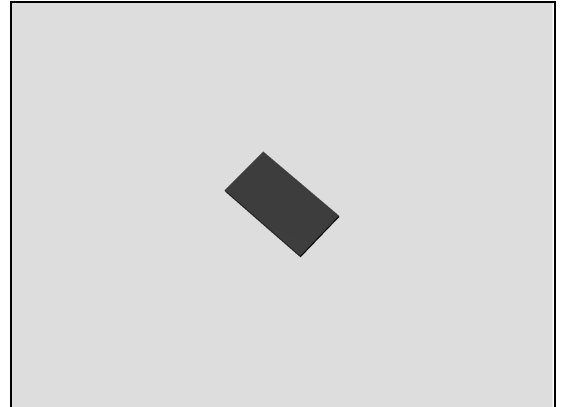
REMOVAL

Detach the Sheet BtoB Key.

Scrap! Not to be reused!

INSTALLATION

Attach a new Sheet BtoB Key in its proper position.



Replacement

4.47 Sheet BtoB Main Cam

Follow the 3.1 – 3.2 Disassembly instructions!
Disconnect the Battery connector.
 Prepare a new Sheet BtoB Main Cam.
Press to snap the Battery connector.
 Follow the 5.22 – 5.23 Reassembly instructions!

REMOVAL

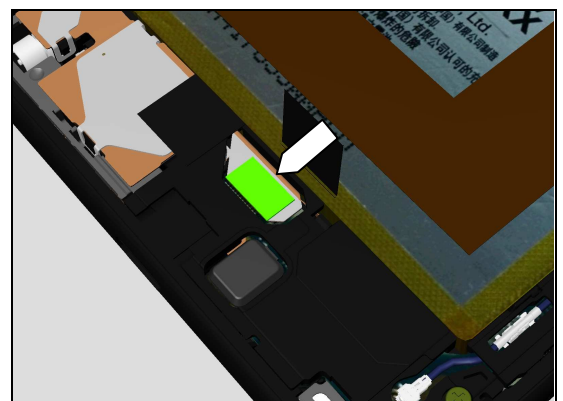
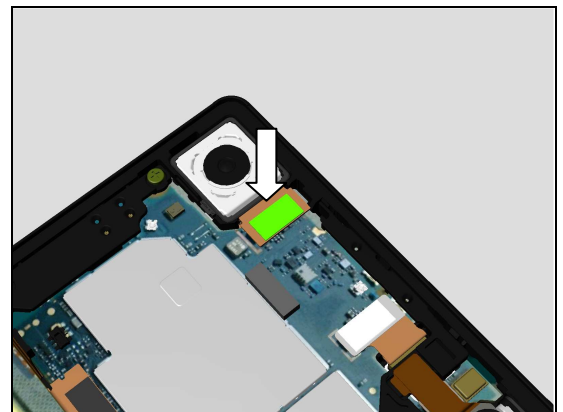
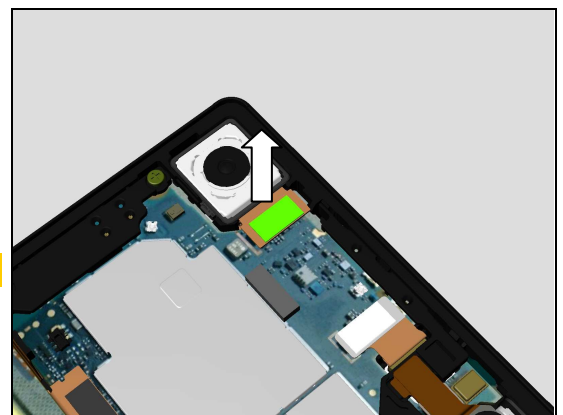
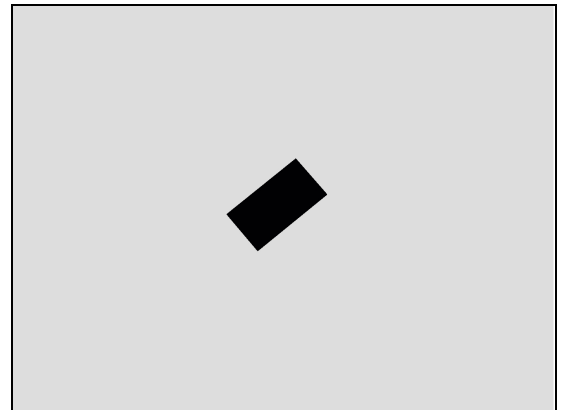
Detach the Sheet BtoB Main Cam.

Scrap! Not to be reused!

INSTALLATION

Attach a new Sheet BtoB Main Cam in its proper position.

Do the same to this Sheet BtoB Main Cam.



Replacement

4.48 Sheet BtoB Sub Cam

Follow the 3.1 – 3.2 Disassembly instructions!
Disconnect the Battery connector.
 Prepare a new Sheet BtoB Sub Cam.
Press to snap the Battery connector.
 Follow the 5.22 – 5.23 Reassembly instructions!

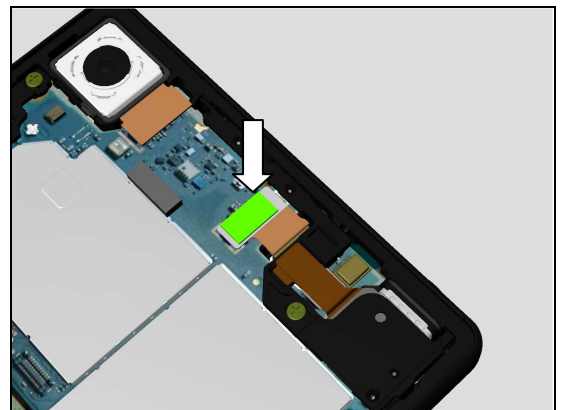
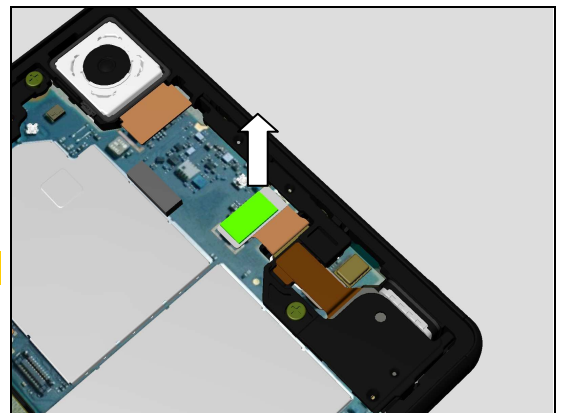
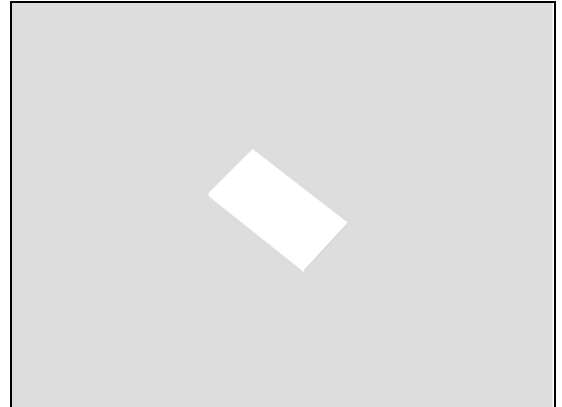
REMOVAL

Detach the Sheet BtoB Sub Cam.

Scrap! Not to be reused!

INSTALLATION

Attach a new Sheet BtoB Sub Cam in its proper position.



Replacement

4.49 Sheet Guide MoP DS (E6833/E6883)

Follow the 3.1 – 3.12 Disassembly instructions!
Follow the 4.51 and 4.54 Removal instructions!
 Prepare a new Sheet Guide MoP DS.
Follow the 4.54 and 4.51 Installation instructions!
 Follow the 5.9 – 5.14 and 5.18 – 5.23 Reassembly instructions!

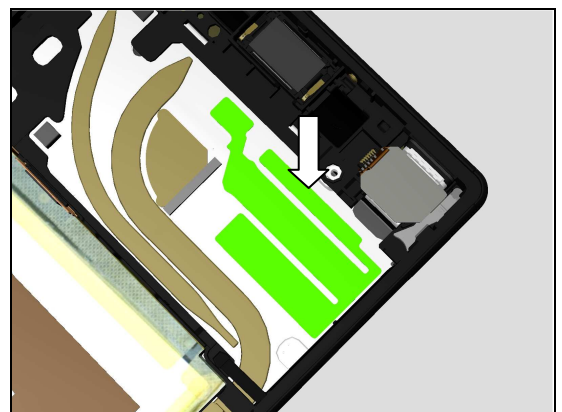
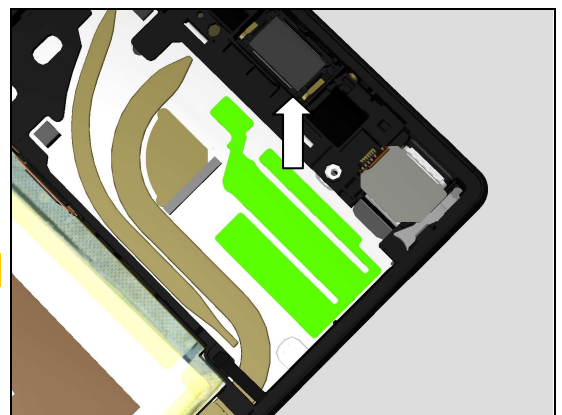
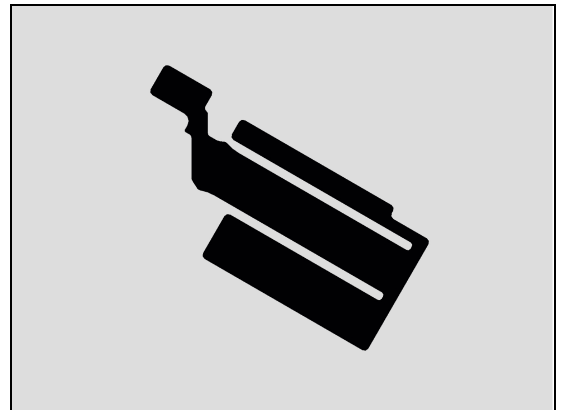
REMOVAL

Detach the Sheet Guide MoP DS.

Scrap! Not to be reused!

INSTALLATION

Attach a new Sheet Guide MoP DS in its proper position by using the alignment lines.



Replacement

4.50 Sheet Guide MoP SS(E6853)

Follow the 3.1 – 3.12 Disassembly instructions!
Follow the 4.52 and 4.55 Removal instructions!
 Prepare a new Sheet Guide MoP SS.
Follow the 4.55 and 4.52 Installation instructions!
 Follow the 5.9 – 5.14 and 5.18 – 5.23 Reassembly instructions!

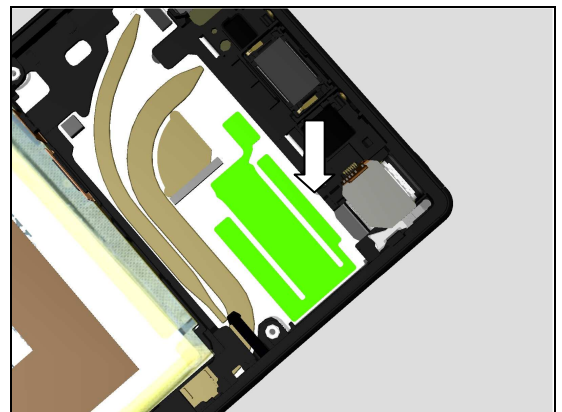
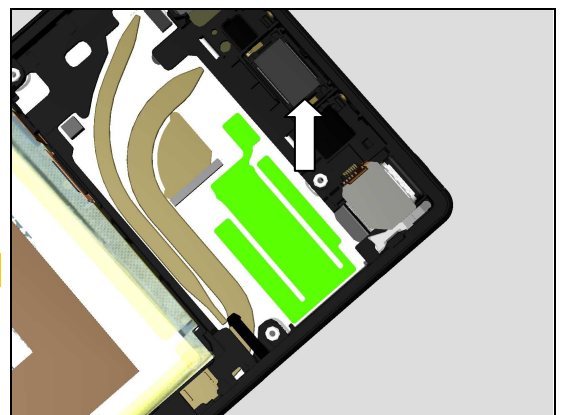
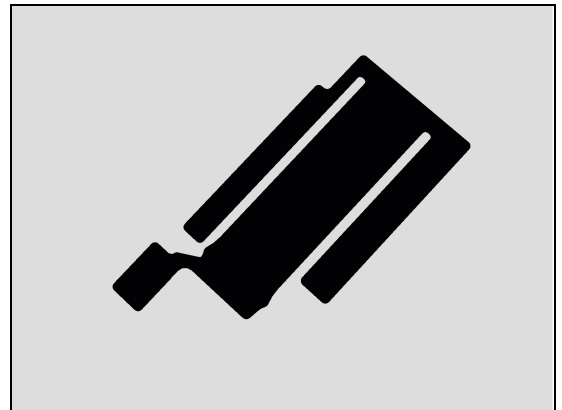
REMOVAL

Detach the Sheet Guide MoP SS.

Scrap! Not to be reused!

INSTALLATION

Attach a new Sheet Guide MoP SS in its proper position by using the alignment lines.



Replacement

4.51 Sheet Protection MoP DS (E6833/E6883)

Follow the 3.1 – 3.12 Disassembly instructions!

Prepare a new Sheet Protection MoP DS.

Follow the 5.9 – 5.14 and 5.18 – 5.23 Reassembly instructions!

Follow the 4.49 removal and installation instruction to replace a new Sheet Guide MoP DS in case its stickiness is lost.

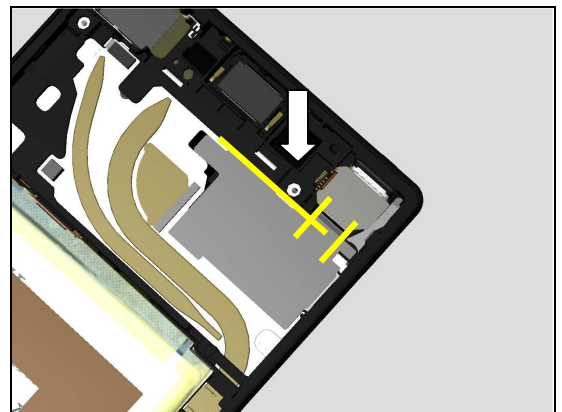
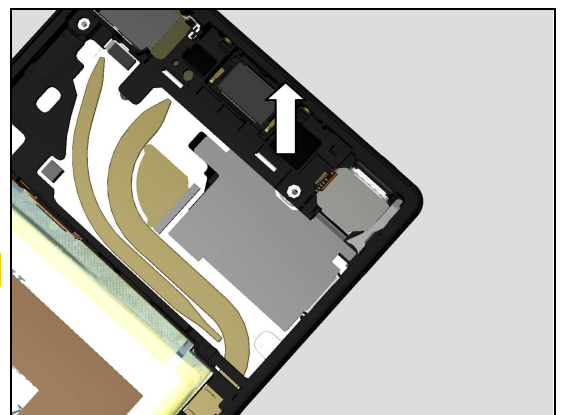
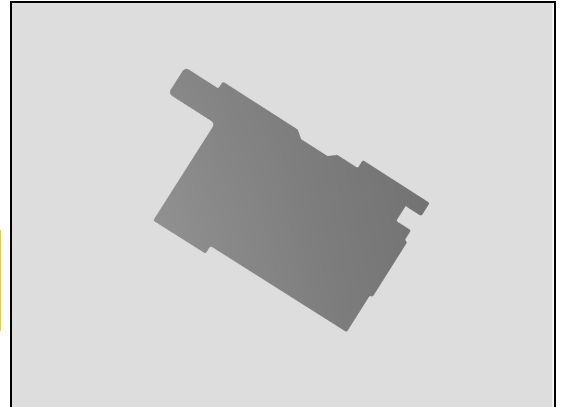
REMOVAL

Detach the Sheet Protection MoP DS.

Scrap! Not to be reused!

INSTALLATION

Attach a new Sheet Protection MoP DS in its proper position.



Replacement

4.52 Sheet Protection MoP SS (E6853)

Follow the 3.1 – 3.12 Disassembly instructions!

Prepare a new Sheet Protection MoP SS.

Follow the 5.9 – 5.14 and 5.18 – 5.23 Reassembly instructions!

Follow the 4.50 removal and installation instruction to replace a new Sheet Guide MoP SS in case its stickiness is lost.

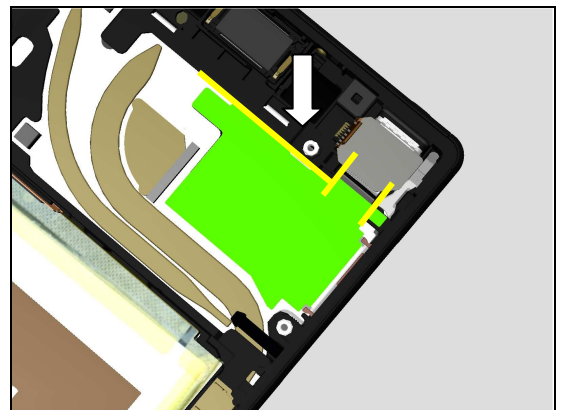
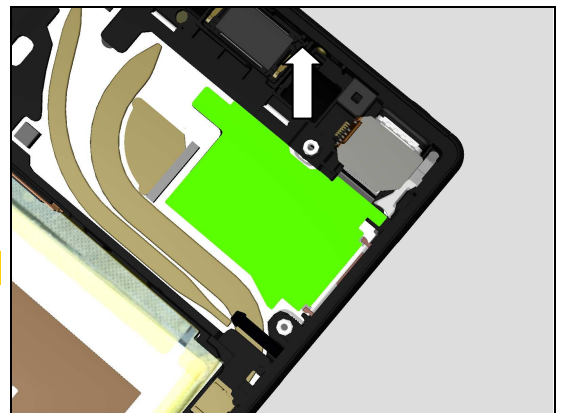
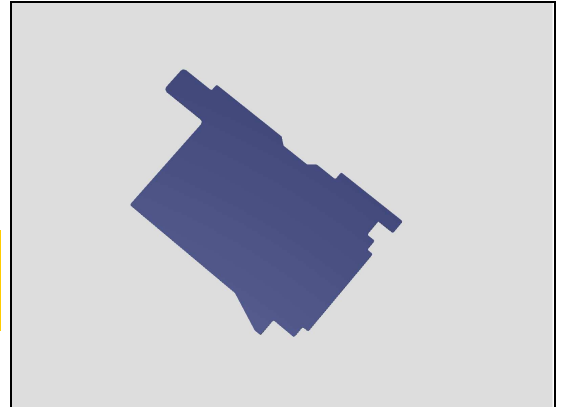
REMOVAL

Detach the Sheet Guide MoP SS.

Scrap! Not to be reused!

INSTALLATION

Attach a new Sheet Guide MoP SS in its proper position as shown in picture.



Replacement

4.53 Sheet RF Cable

Follow the 3.1 – 3.2 Disassembly instructions!
Prepare a new Sheet RF Cable.
Follow the 5.22 – 5.23 Reassembly instructions!

REMOVAL

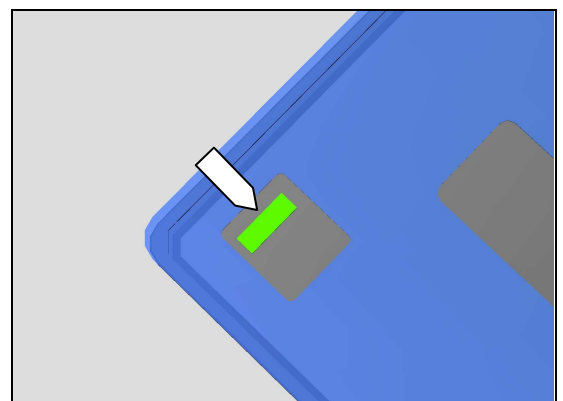
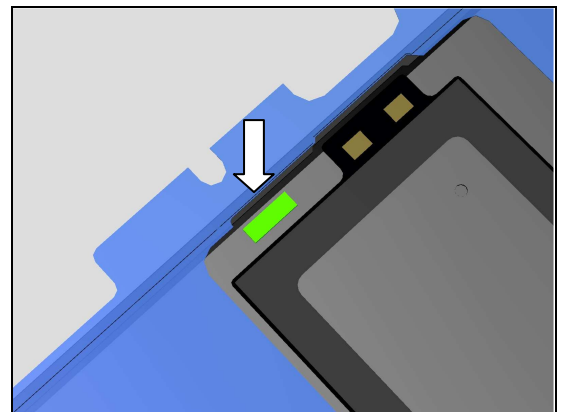
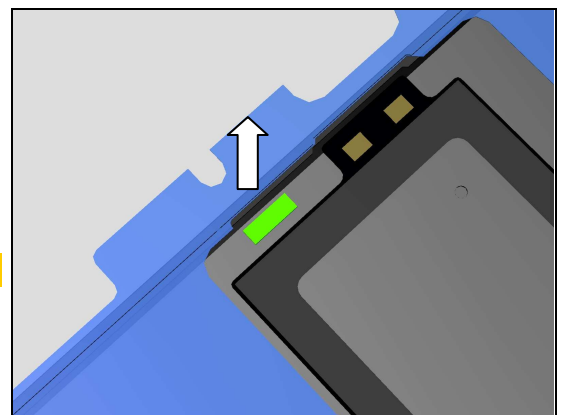
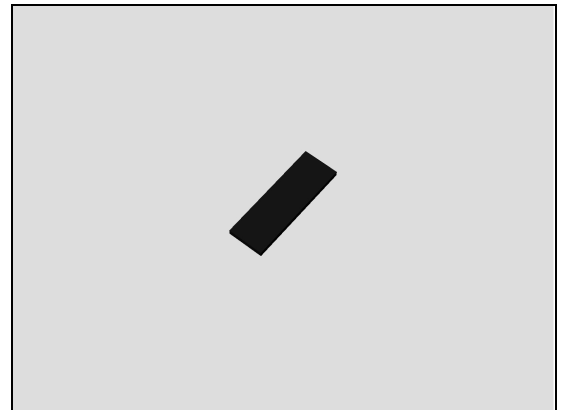
Detach the Sheet RF Cable.

Scrap! Not to be reused!

INSTALLATION

Attach a new Sheet RF Cable in its proper position by using protection film of the Adhesive WR Panel Rear for alignment as shown in picture.

Attach a new Sheet RF Cable in its proper position by using protection film of the Adhesive WR Panel Rear for alignment as shown in picture.



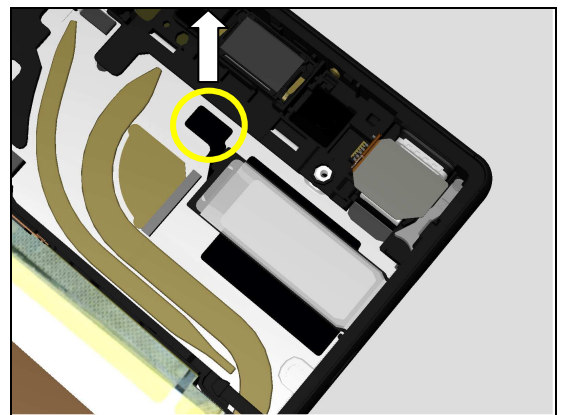
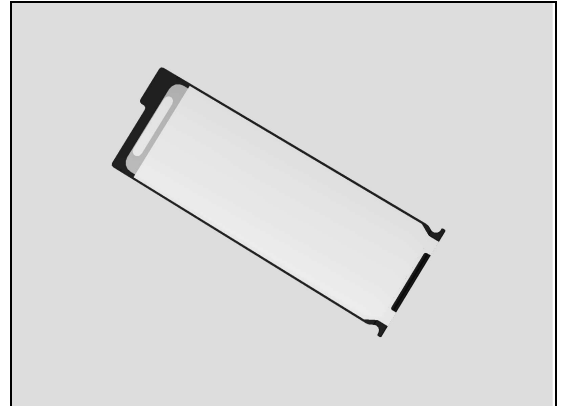
Replacement

4.54 Sheet Slider MoP DS (E6833/E6883)

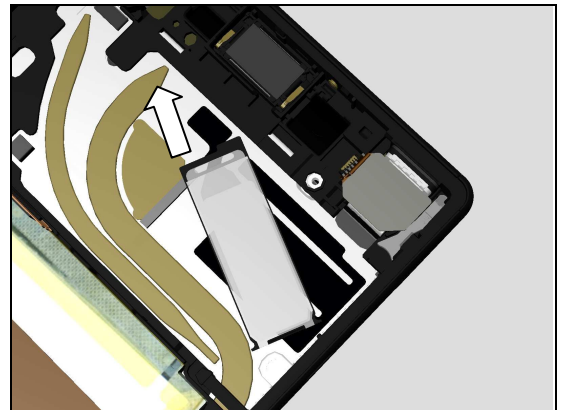
Follow the 3.1 – 3.12 Disassembly instructions!
 Follow the 4.51 Removal instructions!
 Prepare a new Sheet Slider MoP DS.
 Follow the 4.51 Installation instructions!
 Follow the 5.9 – 5.14 and 5.18 – 5.23 Reassembly instructions!

REMOVAL

Detach this part of the Sheet Guide MoP DS as shown in picture.



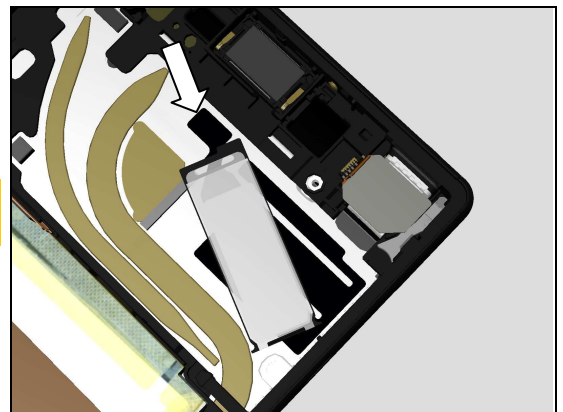
Thread the Sheet Slider MoP DS out and remove it as shown in picture.



INSTALLATION

Follow the 4.39 removal and installation instruction to replace a new Label MoP DS.

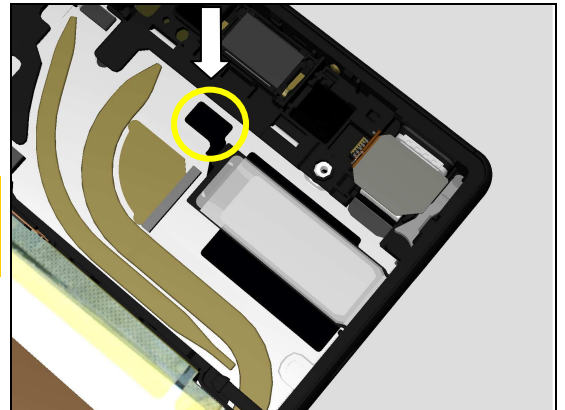
Thread the new Sheet Slider MoP DS to mount it as shown in picture.



Replacement: Sheet Slider MoP DS (E6833/E6883)

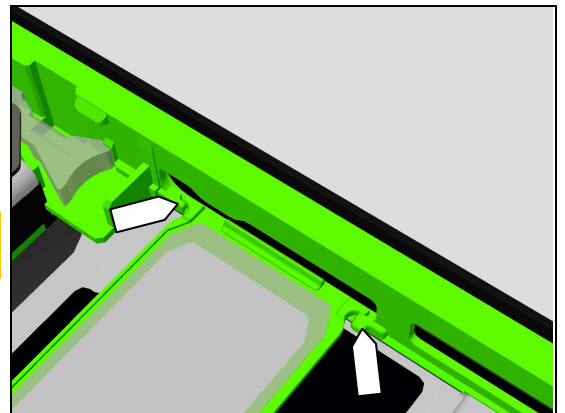
Press to attach this part of Sheet Guide MoP DS.

Note! Follow the 4.49 removal and installation instruction to replace a new Sheet Guide MoP DS in case its stickiness is lost.



Secure the correct position of the Sheet Slider MoP DS as shown in picture.

Make sure the two projections of the Sheet Slider MoP DS are out of the two blocking ribs on the frame.



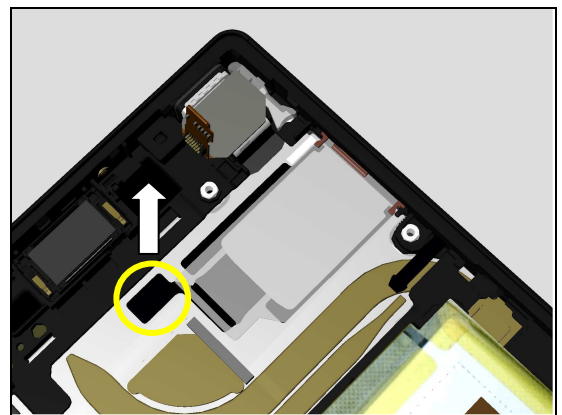
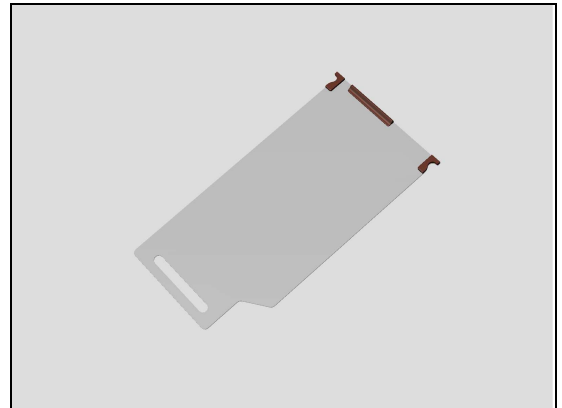
Replacement

4.55 Sheet Slider MoP SS (E6853)

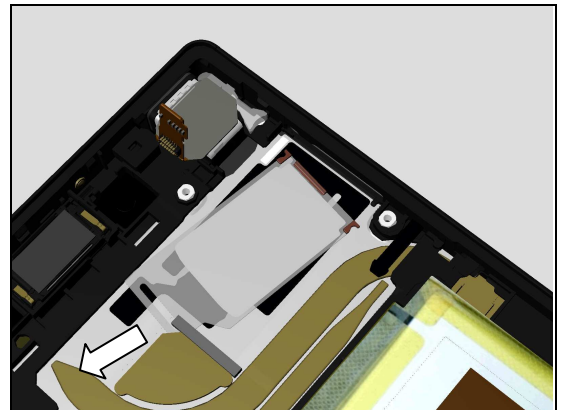
Follow the 3.1 – 3.12 Disassembly instructions!
Follow the 4.52 Removal instructions!
 Prepare a new Sheet Slider MoP SS.
Follow the 4.52 Installation instructions!
Follow the 5.9 – 5.14 and 5.18 – 5.23 Reassembly instructions!

REMOVAL

Detach this part of the Sheet Guide MoP SS as shown in picture.



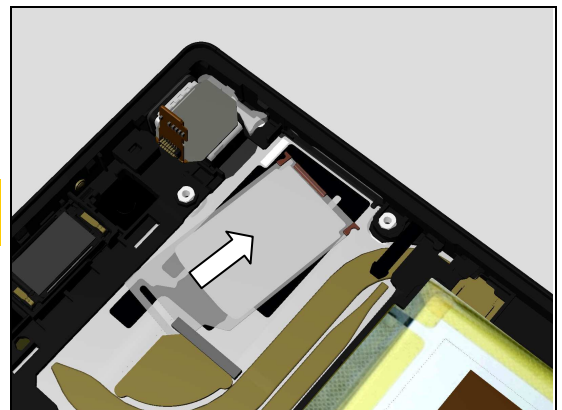
Thread the Sheet Slider MoP SS out and remove it as shown in picture.



INSTALLATION

Follow the 4.40 removal and installation instruction to replace a new Label MoP SS.

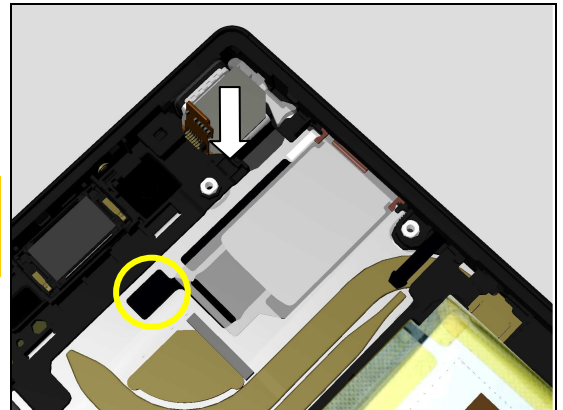
Thread the new Sheet Slider MoP SS to mount it as shown in picture.



Replacement: Sheet Slider MoP SS (E6853)

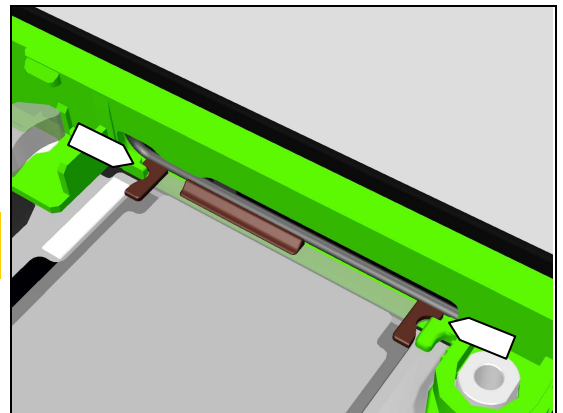
Press to attach this part of Sheet Guide MoP SS.

Note! Follow the 4.50 removal and installation instruction to replace a new Sheet Guide MoP SS in case its stickiness is lost.



Secure the correct position of the Sheet Slider MoP SS as shown in picture.

Make sure the two projections of the Sheet Slider MoP SS are out of the two blocking ribs on the frame.



Replacement

4.56 Sheet Spacer PBA

Follow the 3.1 – 3.2 Disassembly instructions!
Disconnect the Battery connector.
 Prepare a new Sheet Spacer PBA.
Press to snap the Battery connector.
 Follow the 5.22 – 5.23 Reassembly instructions!

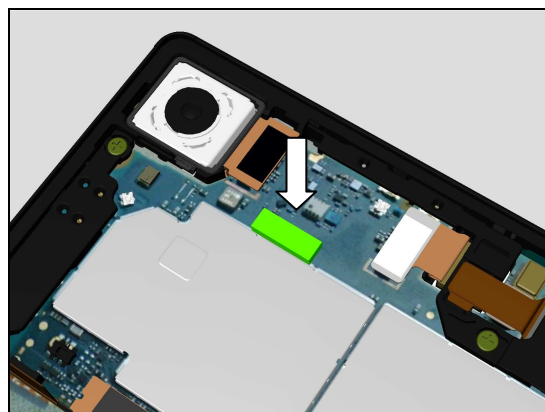
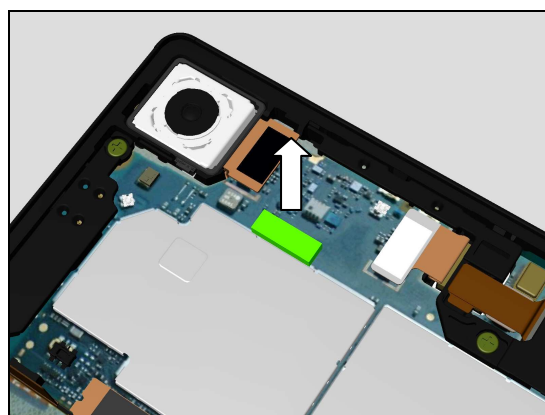
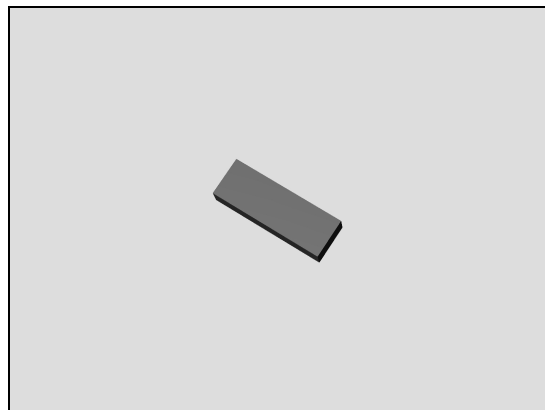
REMOVAL

Detach the Sheet Spacer PBA.

Scrap! Not to be reused!

INSTALLATION

Attach a new Sheet Spacer PBA in its proper position.



Replacement

4.57 Shield Camera and Gasket Shield Cam(2pcs)

Follow the 3.1 – 3.12 Disassembly instructions!
 Prepare a new Sheet Slider MoP SS.
Follow the 5.9 – 5.14 and 5.18 – 5.23 Reassembly instructions!

REMOVAL

Remove the Shield Camera and one of the Gasket Shield Cam.

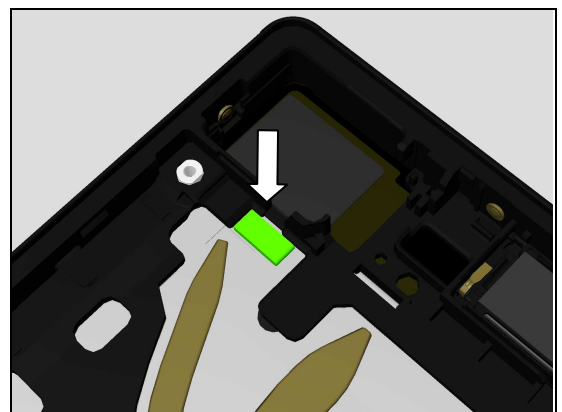
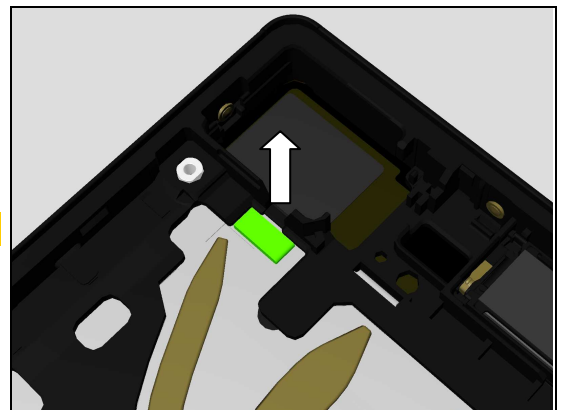
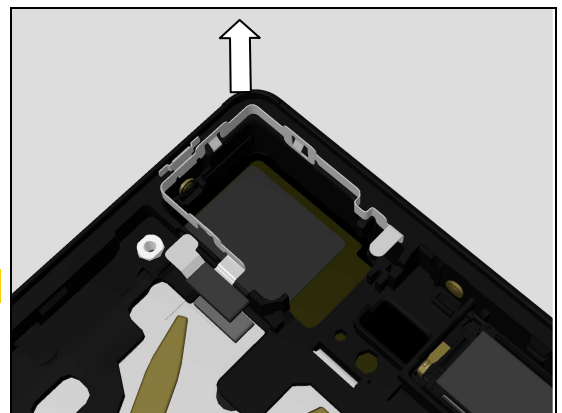
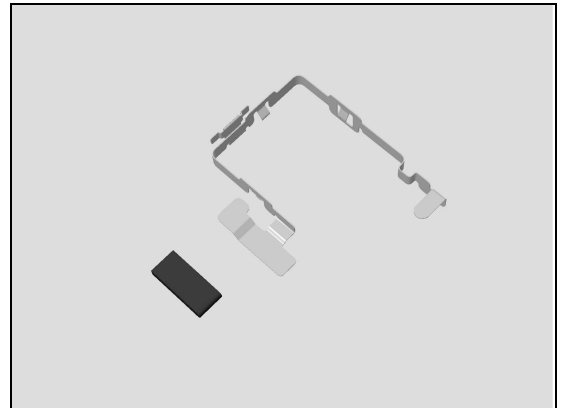
Scrap the Gasket Shield Cam if damaged!

Detach another Gasket Shield Cam.

Scrap! Not to be reused.

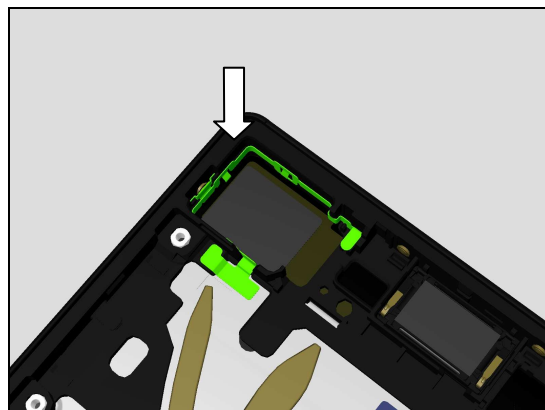
INSTALLATION

Attach a new Gasket Shield Cam in its proper position.

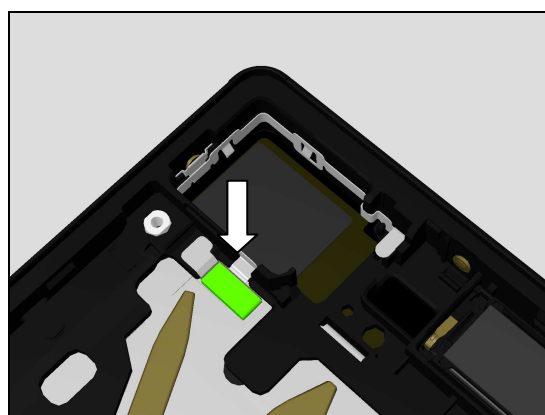


Replacement: Shield Camera and Gasket Shield Cam(2pcs)

Mount a new Shield Camera in its proper position.



Attach a new Gasket Shield Cam in its proper position.



Replacement

4.58 Thermal Gap Filler

Prepare the new Thermal Gap Filler Syringe and Thermal Gap Filler Tube.



Click the icon on the right box and make sure to go through Thermal Gap Filler instruction prior to use!



Confirm the expiration date from the Thermal Gap Filler Tube label.

Expiration date is 6 month after manufacturing.

X: Manufacturing Year (201X)

Y: Manufacturing Month (1,2,,,9, A, B, C)

Z: Manufacturing Date (1,2,,,9, A, B,,,V)

Ex) October 20, 2015 : Lot.5AK



**Material will start to set once it is exposed to air.
Scrap! Thermal Gap Filler Tube cannot be used 24h after first opening.**



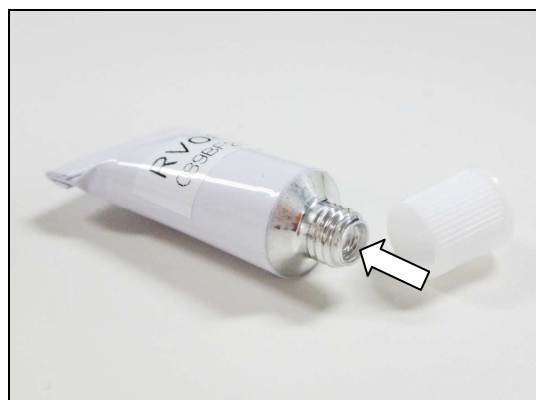
Replacement: Thermal Gap Filler

Scrap! Thermal Gap Filler Syringe cannot be used 1h after filling.

Open the tube with the cap head.

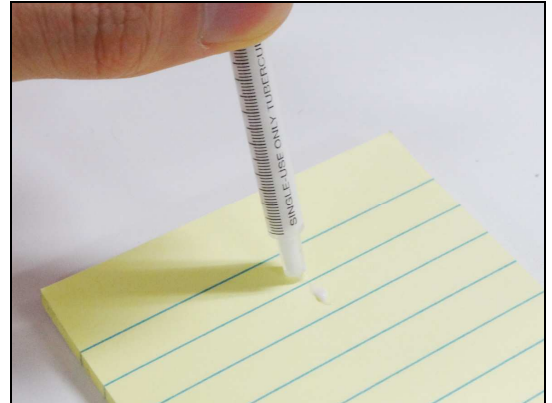
Inject contents of the tube from the end of the syringe.

Make sure the contents reach up to the tip of the syringe and a small amount of the contents flows out as air is released.

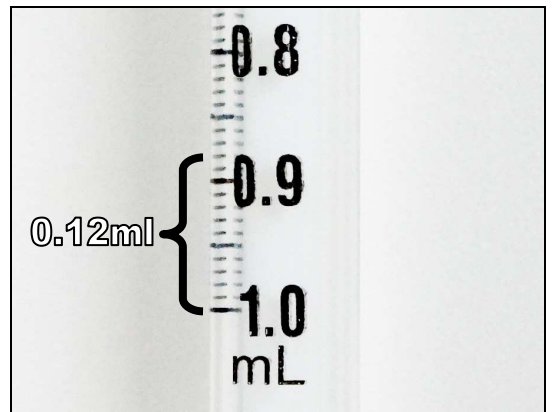


Replacement: Thermal Gap Filler

Wipe off the tip before using.

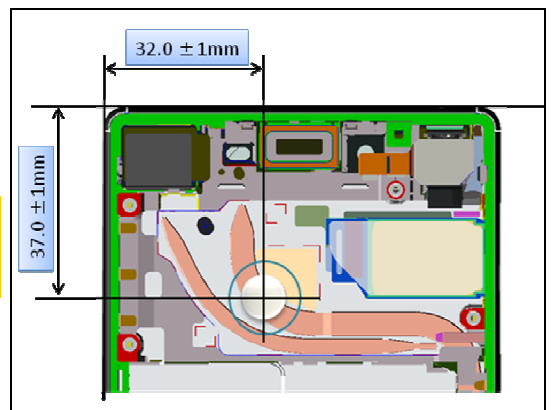


Only one dot is needed for one unit.
Volume for one dot is 0.12 ml.



Carefully apply the Thermal Gap Filler on the shown point.

Assemble the Main PBA within 5 minutes after applying the Thermal Gap Filler! Otherwise clean the previous Thermal Gap Filler and apply new Thermal Gap Filler!



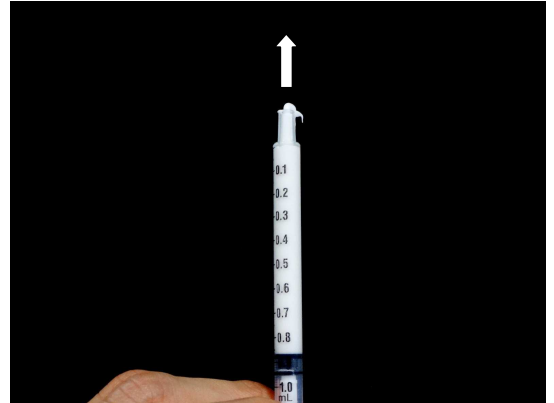
Wipe off the tip of the syringe until next repair.

Scrap! Do not refill the same syringe.



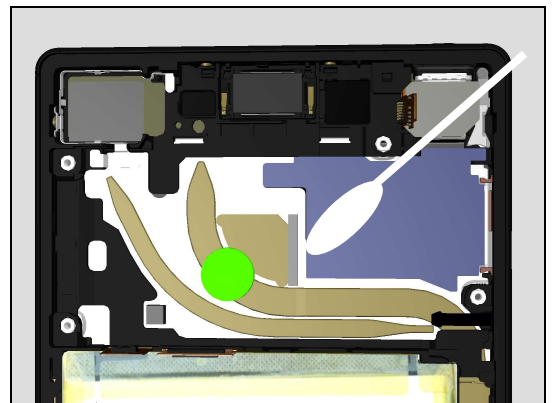
Replacement: Thermal Gap Filler

Next time you use, let a small amount of contents flow out and wipe off the tip again.



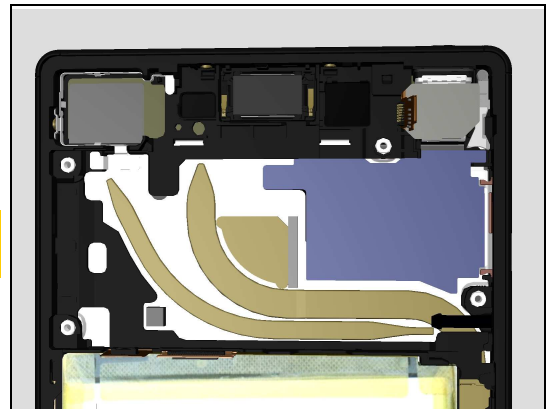
REWORK

If the position or amount is not correct, wipe it off with a cotton swab. Apply the new Thermal Gap Filler.



Clean the residues of the Thermal Gap Filler before applying Thermal Gap Filler.

Scrap! Thermal Gap Filler cannot be reused in case the Main PBA is disassembled!



Replacement

4.59 Speaker Bottom and Adhesive WR Speaker

Follow the 3.1 – 3.2 Disassembly instructions!

Disconnect the Battery connector.

Follow the 3.13 – 3.16 Disassembly instructions!

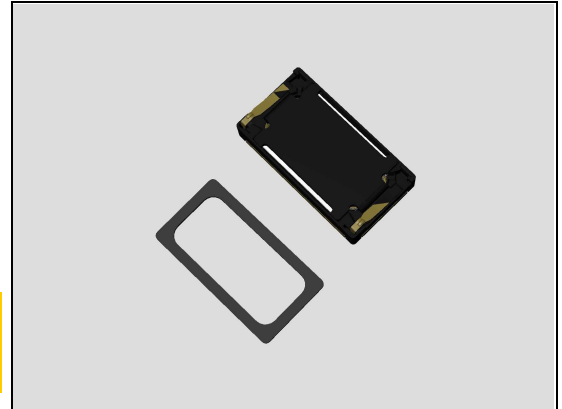
Prepare a new Speaker Bottom and Adhesive WR Speaker.

Follow the 5.5 – 5.8 Reassembly instructions!

Press to snap the Battery connector.

Follow the 5.22 – 5.23 Reassembly instructions!

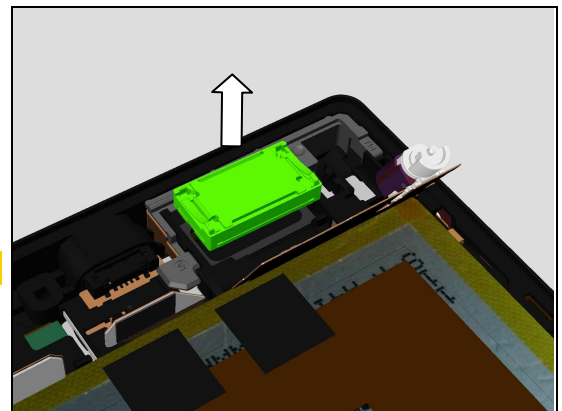
Important! After replacing the Speaker Bottom, flash the phone by Customize or Refurbish or SUCE (not SU) in EMMA.



REMOVAL

Detach the Speaker Bottom.

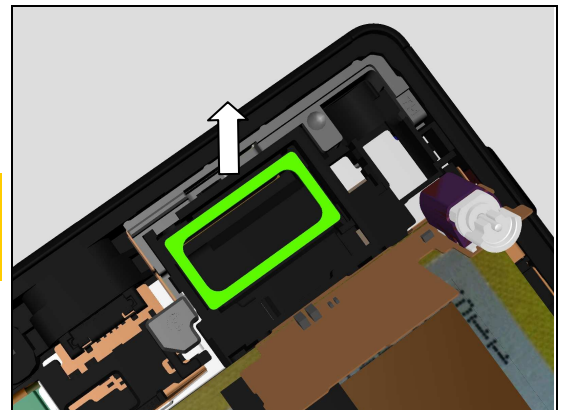
Scrap! Not to be reused!



Detach the Adhesive WR Speaker.

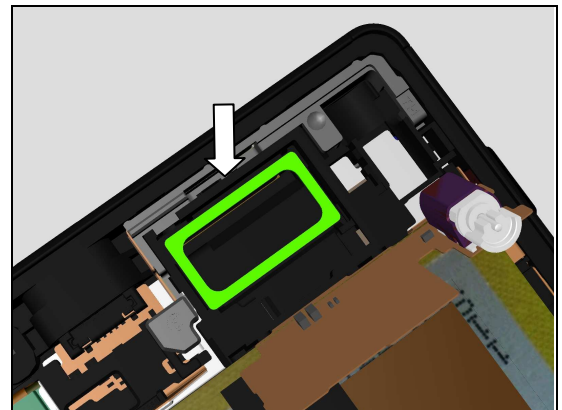
Scrap! Not to be reused!

Make sure all remaining adhesive residue have been removed!



INSTALLATION

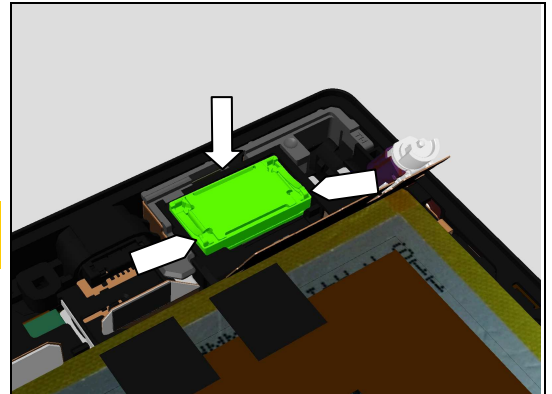
Attach a new Adhesive WR Speaker in its proper position as shown in picture.



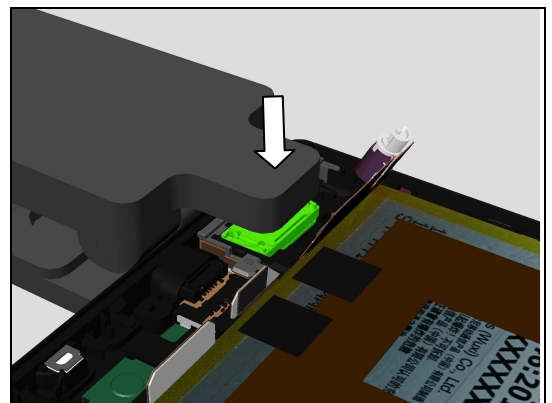
Replacement: Speaker Bottom and Adhesive WR Speaker

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

Note the correct orientation of the Speaker Bottom contact spring to be installed as shown in picture!



Press it with Press Tool for Speaker Bottom for 5 seconds.



Replacement

4.60 Water indicator

Follow the 3.1 – 3.12 Disassembly instructions!
 Follow the 4.52 Removal instructions for E6853!
 Follow the 4.51 Removal instructions for E6833 and E6883!
 Prepare a new Water indicator.
 Follow the 4.52 Installation instructions for E6853!
 Follow the 4.51 Installation instructions E6833 and E6883!
 Follow the 5.9 – 5.14 and 5.18 – 5.23 Reassembly instructions!

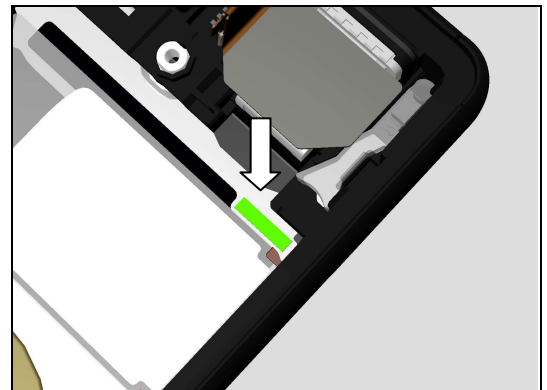
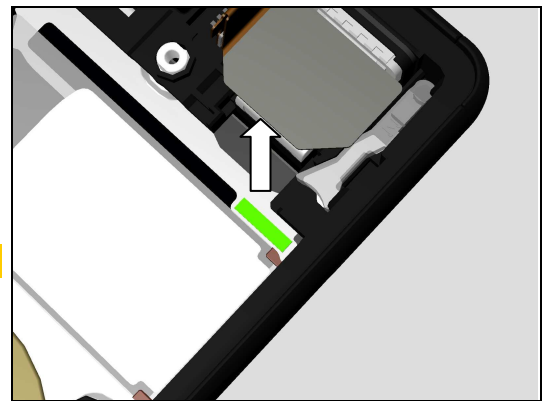
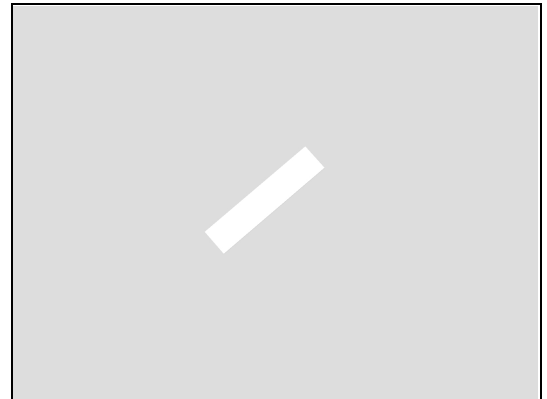
REMOVAL

Detach the Water indicator.

Scrap! Not to be reused!

INSTALLATION

Attach a new Water indicator in alignment with the guiding lines on the metal plate.



Replacement

4.61 Board Swap – Replacement

Follow the 3.1 – 3.12 Disassembly instructions!

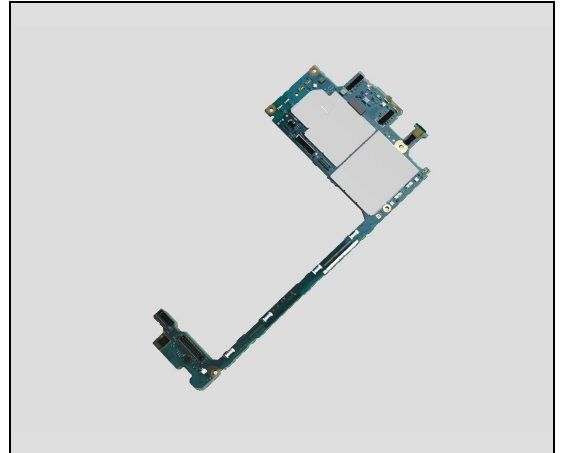
Follow the 4.43 Removal instructions!

Replace the Swap Board.

Follow the 4.43, 4.56 and 4.30 Installation instructions!

Follow the 5.9 – 5.14 and 5.18 – 5.23 Reassembly instructions!

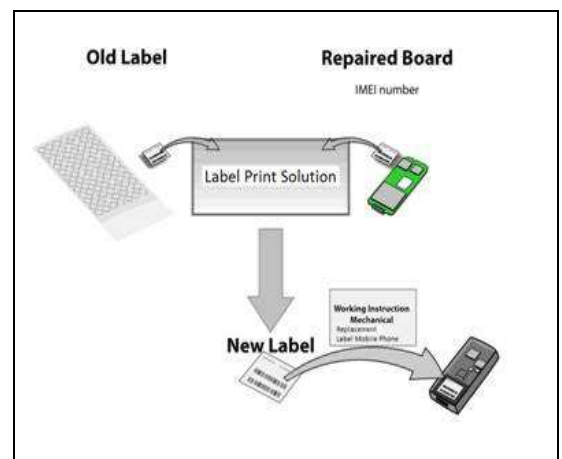
Note! Thermal Gap Filler must be re-applied!
Proximity, Noise Cancelling, Gyroscope and Accelerometer Calibration and Color ID Flashing must be performed for all replaced units; 1289-2983 Trouble Shooting Application – mechanical.



4.62 Board Swap – Change Label

CHANGE LABEL

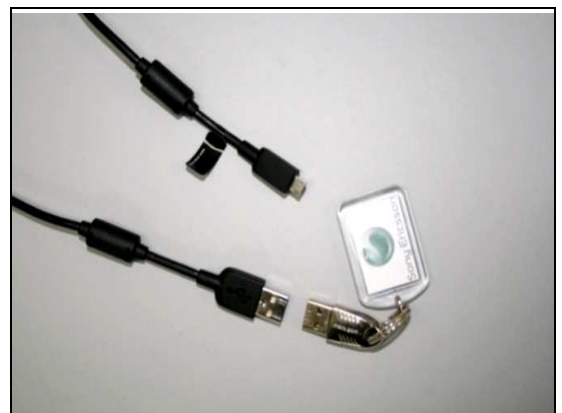
Follow the instructions in the Generic Repair Manual – Build swap for change of label.



4.63 Board Swap – Customize of Software

CUSTOMIZE OF SOFTWARE

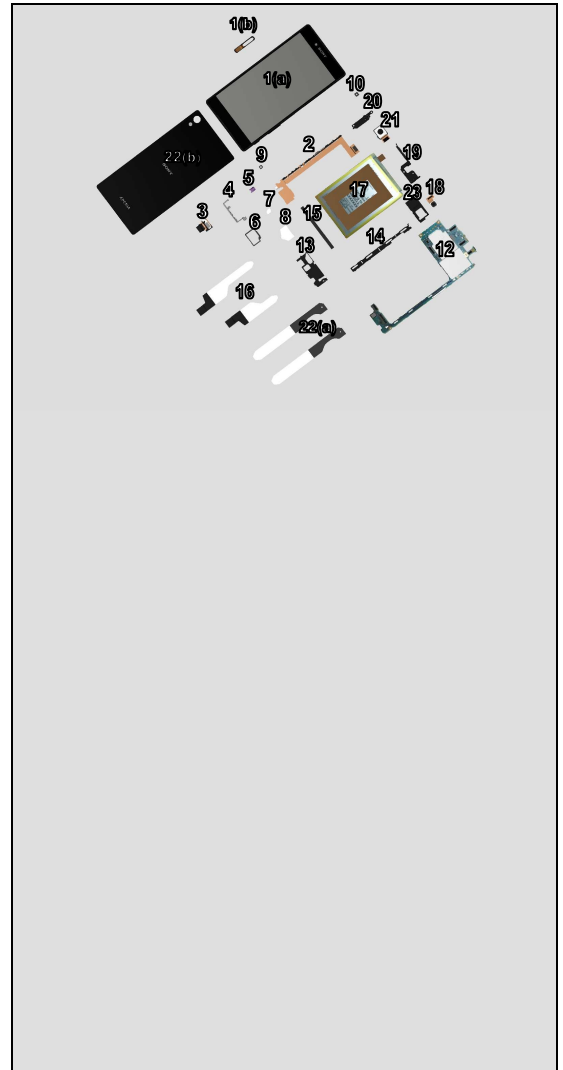
Follow the instructions in the Generic Repair Manual – Build swap for customization of the software.



5 Reassembly

The E6853/E6833/E6883 reassembly is done in the following order:

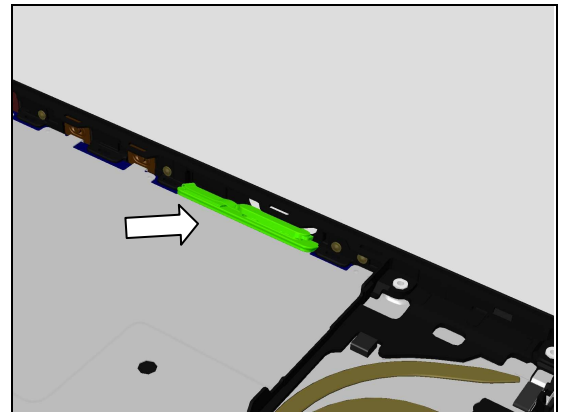
1. Display Frame Assy (a) and Fingerprint Sensor Module (b)
2. FPC Key Module
3. FPC USB Module
4. Ant Cellular Main
5. Holder Vibrator
6. Adhesive FPC Speaker
7. Plate Vib
8. Plate Speaker
9. Adhesive 1st Mic
10. Adhesive 2nd Mic
11. Thermal Gap Filler
12. Main PBA
13. Holder USB
14. Holder Battery
15. Cushion Battery Bottom
16. Adhesive Battery A and Adhesive Battery B
17. Battery
18. Chat Camera
19. Ant Cellular Sub
20. Ant WLAN
21. Main Camera
22. Adhesive Battery Rear (a) and Panel Rear Sub Assy (b)
23. Tray Combo SS (E6853)/ Tray Combo DS (E6833/E6883)



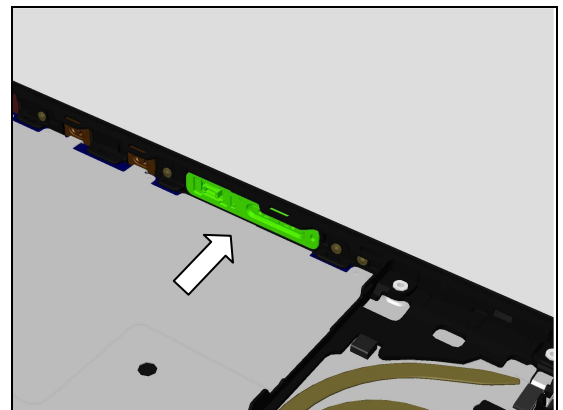
Reassembly

5.1 Display Frame Assy (a) and Fingerprint Sensor Module (b)

Mount the Fingerprint Sensor Module as shown in picture.

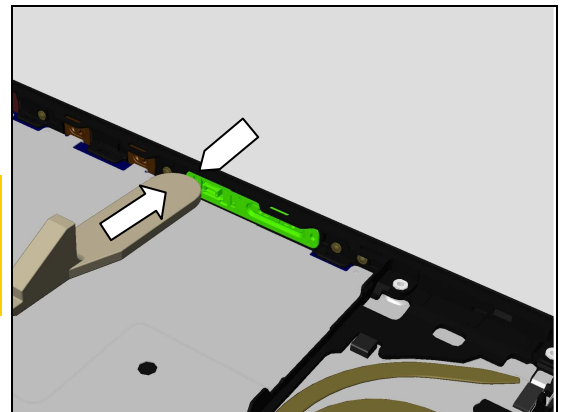


Push the Fingerprint Sensor Module into its hole as shown in picture.



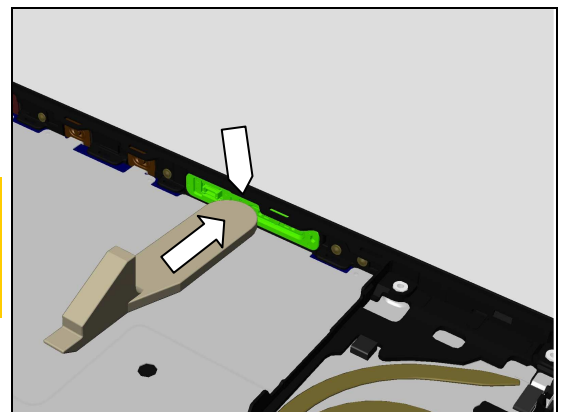
Press the Fingerprint Sensor Module at this position as shown in picture by using the Front Opening Tool.

Note! Do not damage the BtB connector of the Fingerprint Sensor Module.
Make sure the Fingerprint Sensor Module is pressed into its hole since it is WR part.



Press the Fingerprint Sensor Module at this position as shown in picture by using the Front Opening Tool.

Note! Do not damage the BtB connector of the Fingerprint Sensor Module.
Make sure the Fingerprint Sensor Module is pressed into its hole since it is WR part.

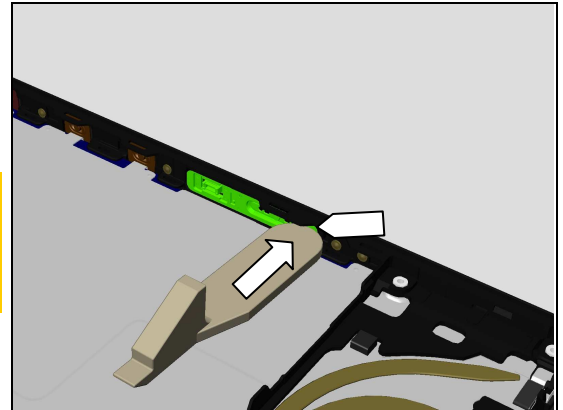


Reassembly

Press the Fingerprint Sensor Module at this position as shown in picture by using the Front Opening Tool.

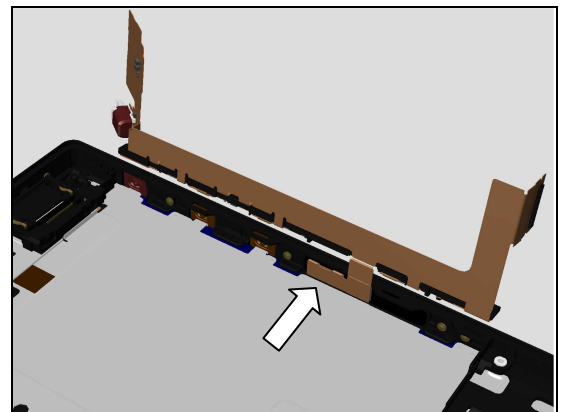
Note! Do not damage the BtB connector of the Fingerprint Sensor Module.

Make sure the Fingerprint Sensor Module is pressed into its hole since it is WR part.



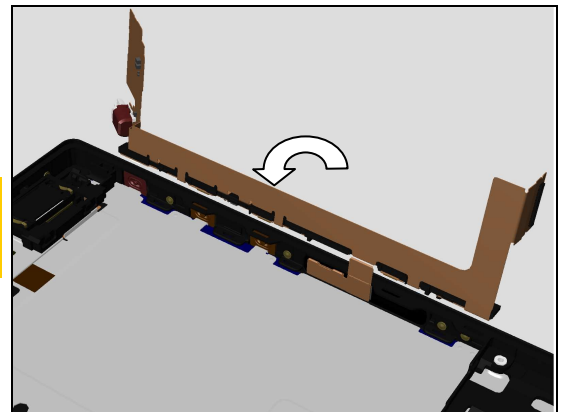
5.2 FPC Key Module

Press to snap the BtB connector of the FPC Key Module to the Fingerprint Sensor Module.



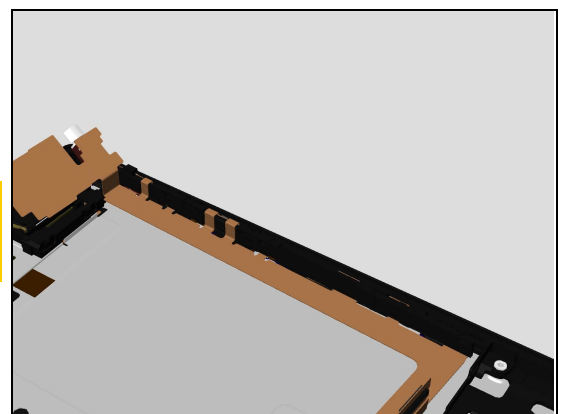
Rotate the FPC Key Module as shown in picture.

Note! Do not loosen the BtB connector of the FPC Key Module to the Fingerprint Sensor Module during the action.



Stop rotating as shown in picture.

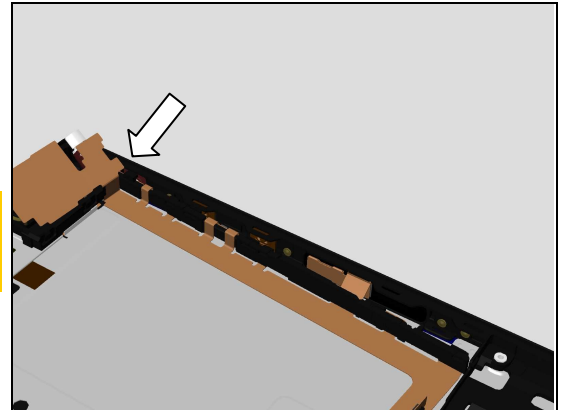
Note! Do not loosen the BtB connector of the FPC Key Module to the Fingerprint Sensor Module during the action.



Reassembly

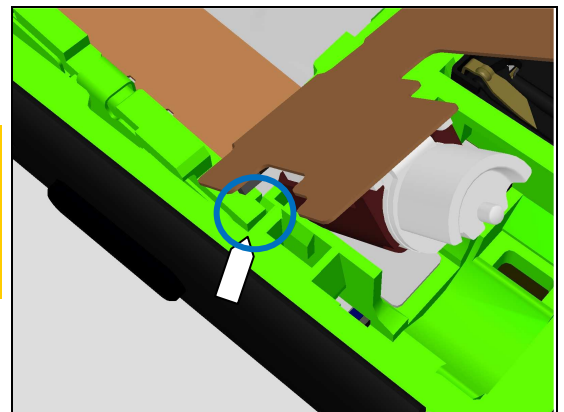
Mount this side of the FPC Key Module firstly as shown in picture.

Note! Do not loosen the BtB connector of the FPC Key Module to the Fingerprint Sensor Module during the action.



Make sure the FPC Key Module is mounted into its proper position as shown in picture.

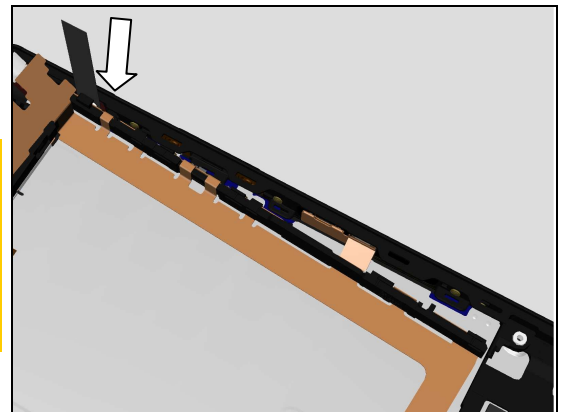
Note! Do not loosen the BtB connector of the FPC Key Module to the Fingerprint Sensor Module during the action.



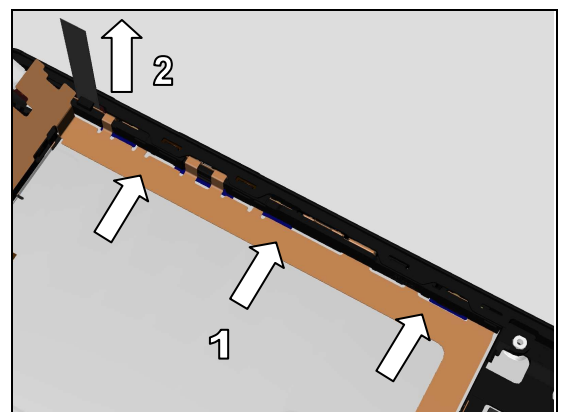
Insert a sheet between the camera switch and the Display Frame Assy before assembly.

This sheet is to protect camera switch when assembly. The tab of the Adhesive Battery could be used for this sheet by cutting for proper width.

Note! Do not loosen the BtB connector of the FPC Key Module to the Fingerprint Sensor Module during the action.

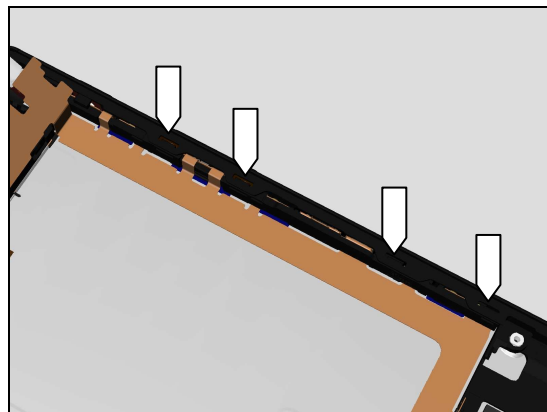


Push the FPC Key Module as shown in picture (1).
And then pull to remove the sheet (2).



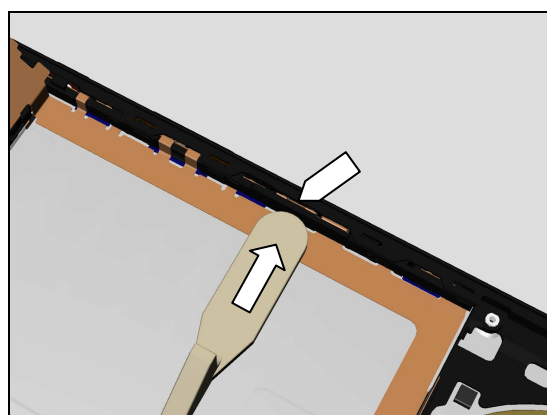
Reassembly

Make sure the FPC Key Module is properly installed as shown in picture.



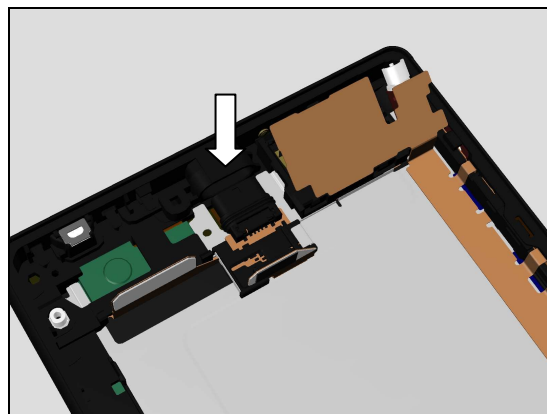
Press the FPC Key Module at this position as shown in picture by using the Front Opening Tool.

This action is to make sure the good snapping of the BtB connector of the FPC Key Module to the Fingerprint Sensor Module.

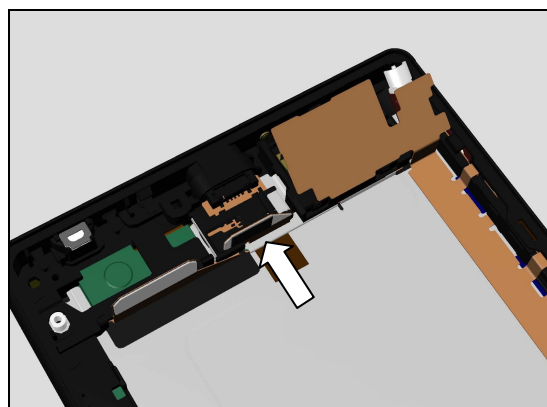


5.3 FPC USB Module

Align the FPC USB Module to its hole.



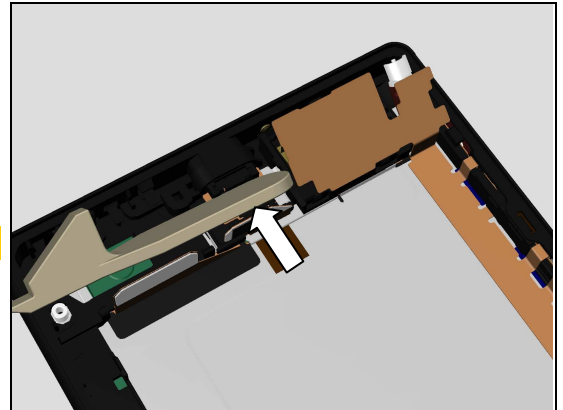
Insert the FPC USB Module into its hole as shown in picture.



Reassembly

Press the FPC USB Module to the bottom with the Front Opening Tool as shown in picture.

Note! Only press plastic part of FPC USB Module.

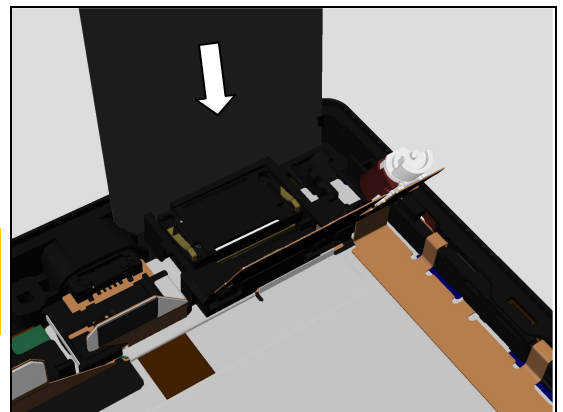


5.4 Ant Cellular Main

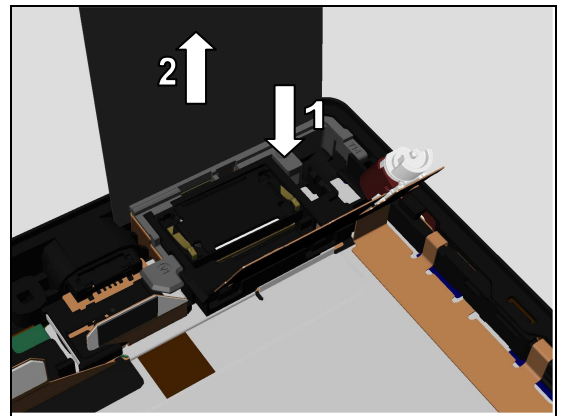
Insert a sheet as shown in picture before assembly.

This sheet is to protect antenna pins on the Display Frame Assy when assembly.

The thickness of this sheet is 0.1mm.

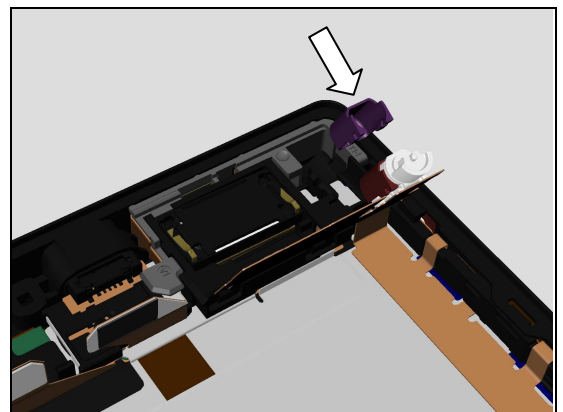


Mount the Ant Cellular Main into its proper position (1).
And then pull to remove the sheet (2).



5.5 Holder Vibrator

Mount the Holder Vibrator onto its proper position.

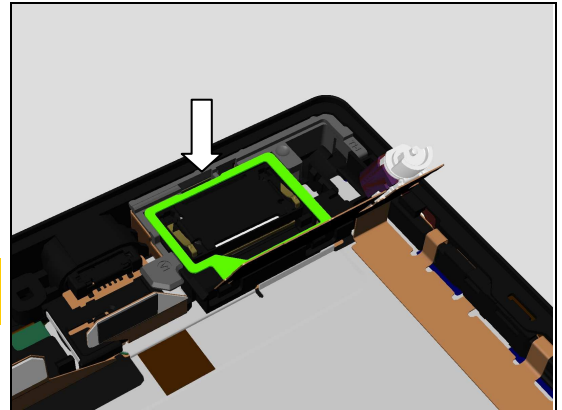


Reassembly

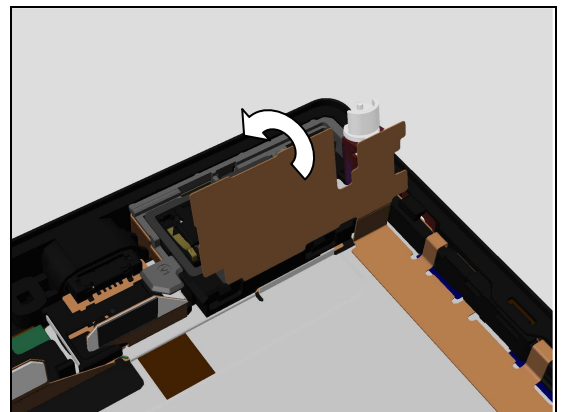
5.6 Adhesive FPC Speaker

Attach a NEW Adhesive FPC Speaker onto its proper position.

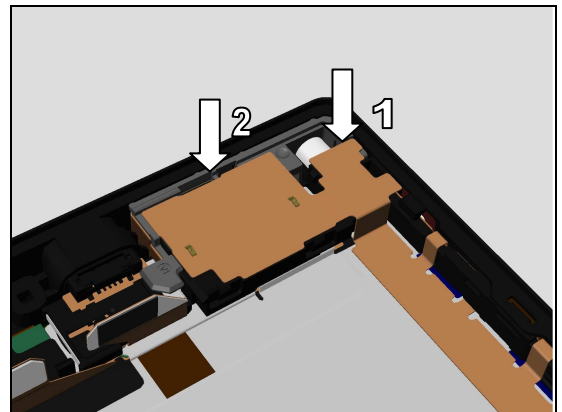
The shape of the protection film can be used for alignment when assembly.



Rotate the speaker FPC and vibrator FPC together as shown in picture.

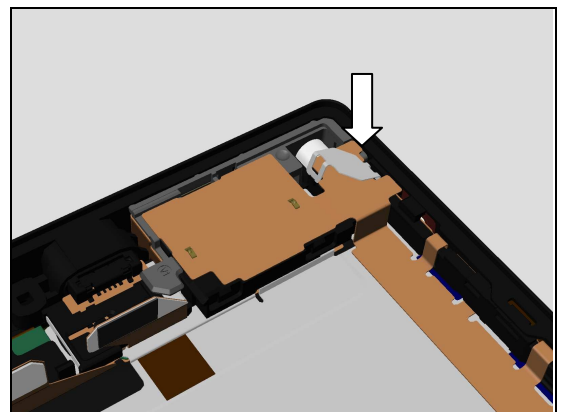


Mount the vibrator FPC into its cavity and press it (1). And then attach the speaker FPC onto the ribs (2).



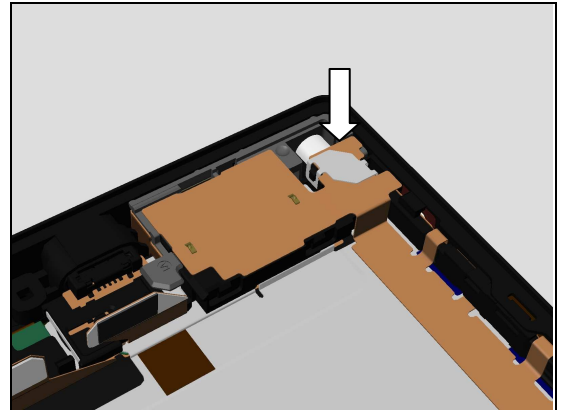
5.7 Plate Vib

Mount the Plate Vib from this side as shown in picture.



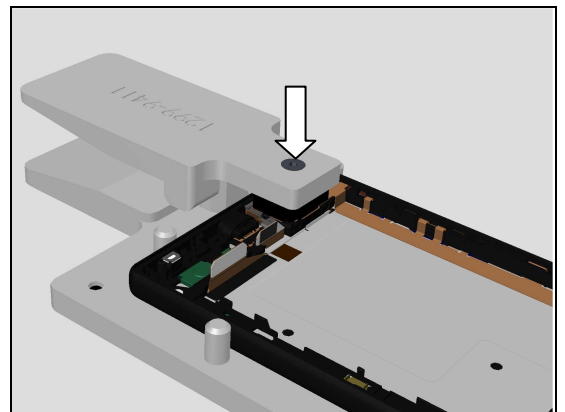
Reassembly

Press to snap the Plate Vib.

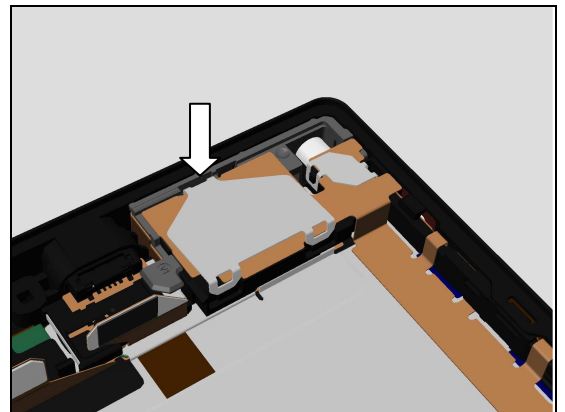


5.8 Plate Speaker

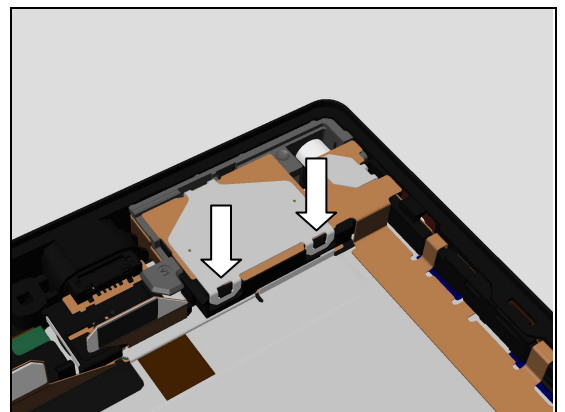
Press the Speaker FPC by using the Speaker Adhesive Press Clamp for 5 seconds.



Mount the Plate Speaker from this side as shown in picture.



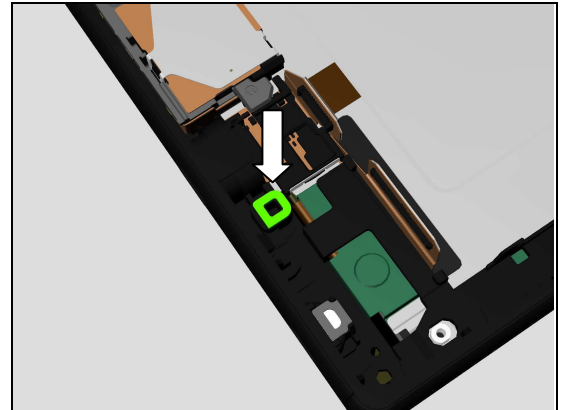
Press to snap the Plate Speaker.



Reassembly

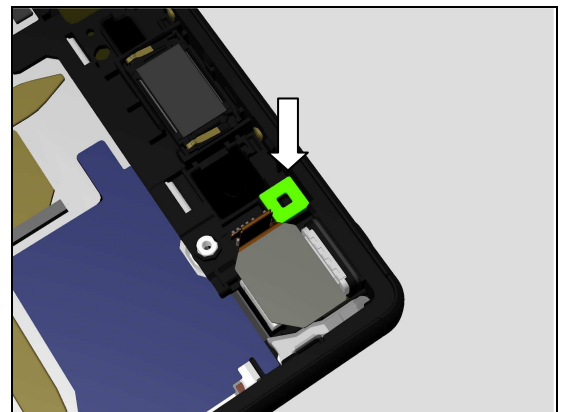
5.9 Adhesive 1st Mic

Attach a NEW Adhesive 1st Mic onto its proper position as shown in picture.



5.10 Adhesive 2nd Mic

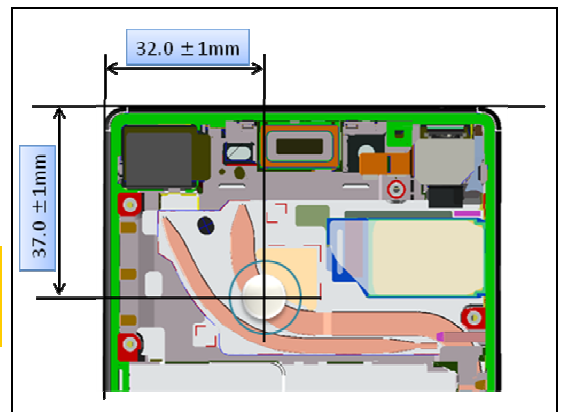
Attach a NEW Adhesive 2nd Mic onto its proper position as shown in picture.



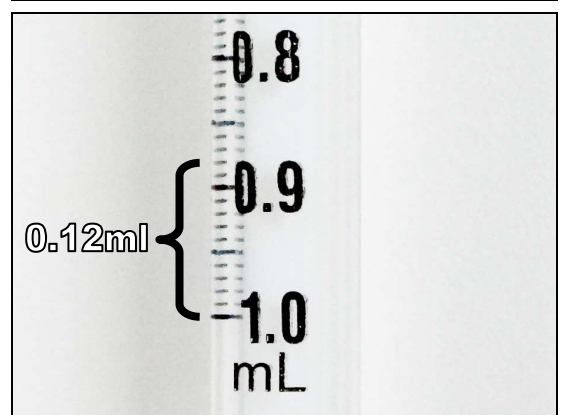
5.11 Thermal Gap Filler

Carefully apply the NEW Thermal Gap Filler on the shown point.

Assemble the Main PBA within 5 minutes after applying the Thermal Gap Filler! Otherwise clean the previous Thermal Gap Filler and apply new Thermal Gap Filler!



Only one dot is needed for one unit.
Volume for one dot is 0.12 ml.

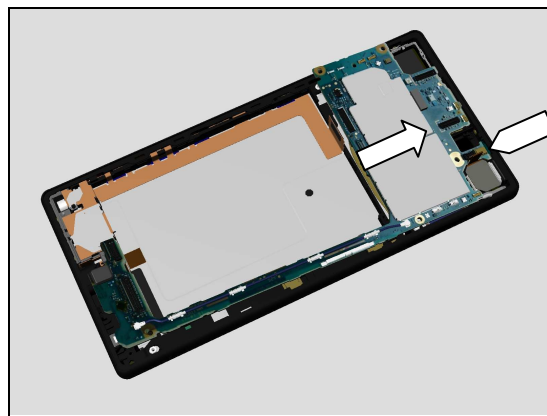


Reassembly

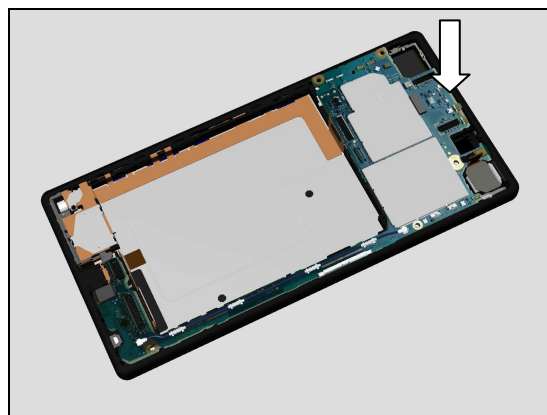
5.12 Main PBA

Make sure all remaining adhesive residue of the Adhesive 1st Mic and Adhesive 2nd Mic on the Main PBA have been removed!

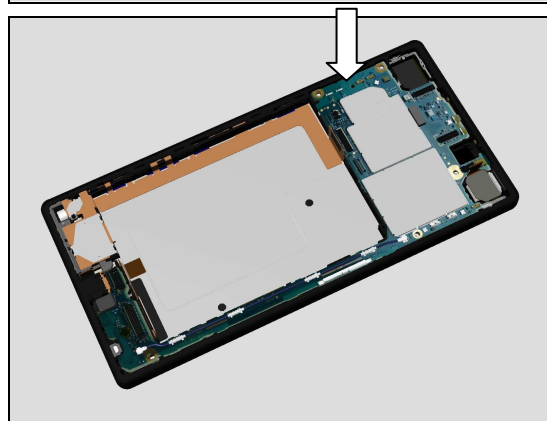
Insert the 2nd Mic part of the Main PBA into its proper position as shown in picture.



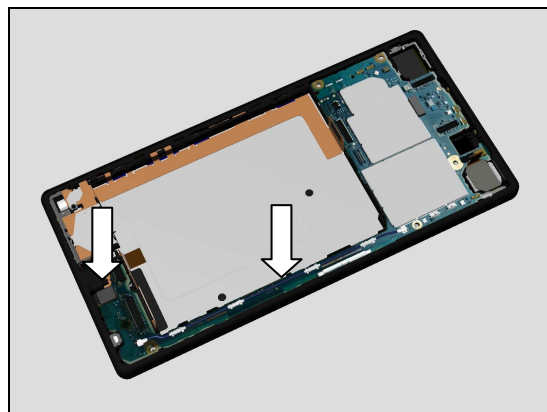
Press to snap the top side.



Press to snap the left side.

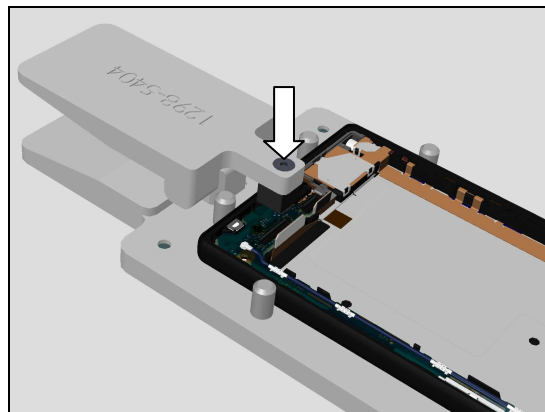


Press to snap the right side and then press the 1st Mic part of the Main PBA.

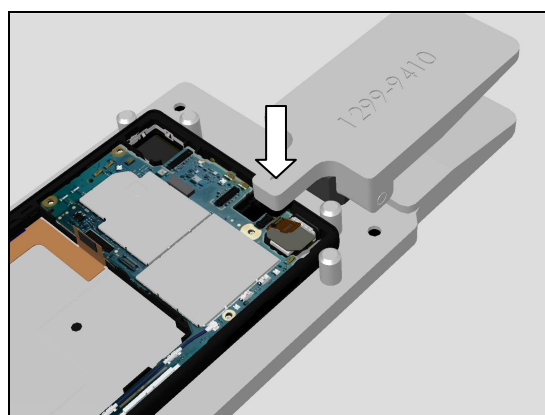


Reassembly

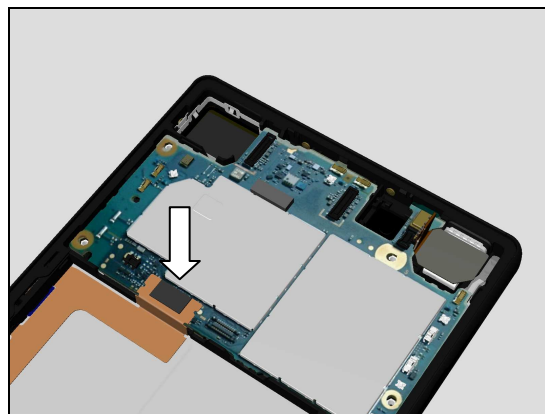
Press the Cap 1st Mic Sub Assy by using Press Clamp Mic for 5 seconds.



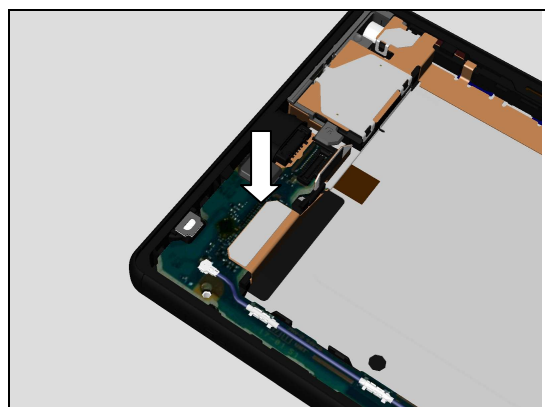
Press the 2nd Mic by using Press Clamp 2nd Mic for 5 seconds.



Press to snap the BtB connector of the FPC Key Module.

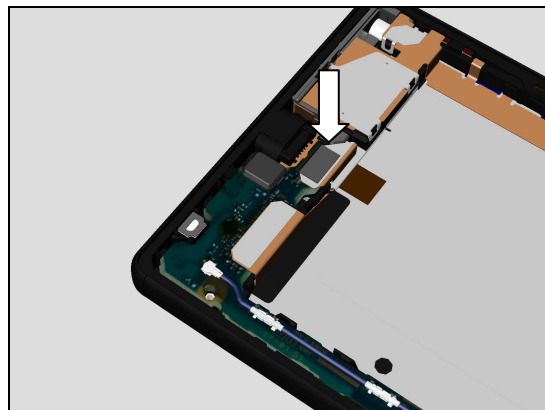


Press to snap the BtB connector of the Display FPC.



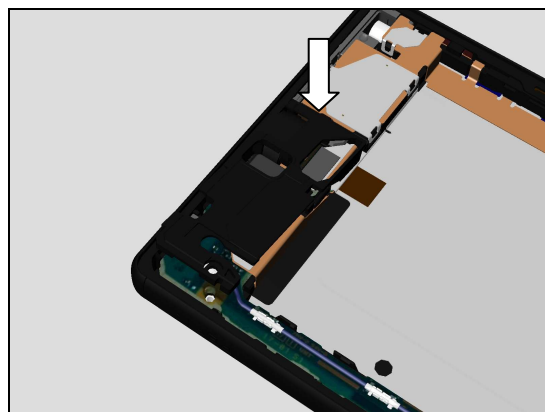
Reassembly

Press to snap the BtB connector of the FPC USB Module.

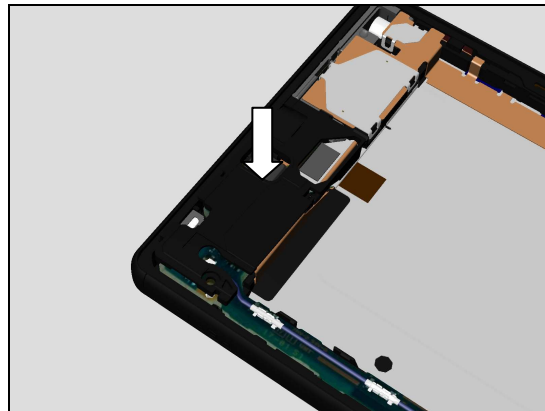


5.13 Holder USB

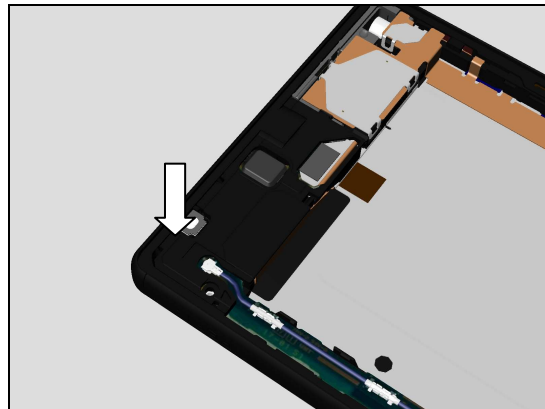
Mount the Holder USB from this side as shown in picture.



Press to snap the Holder USB as shown in picture.



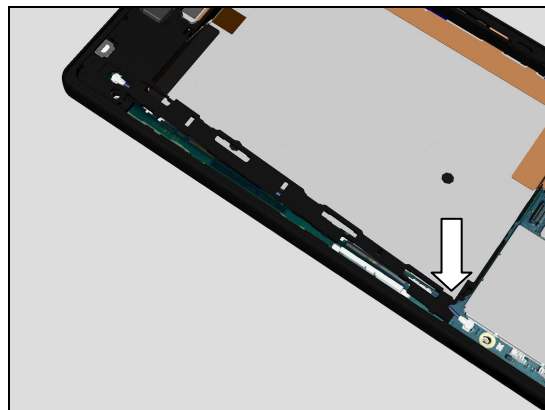
Press to snap the Holder USB as shown in picture.



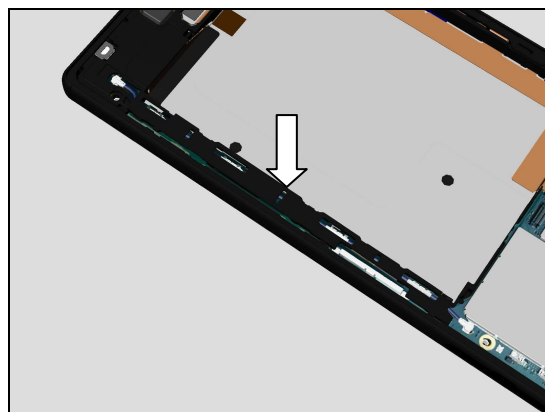
Reassembly

5.14 Holder Battery

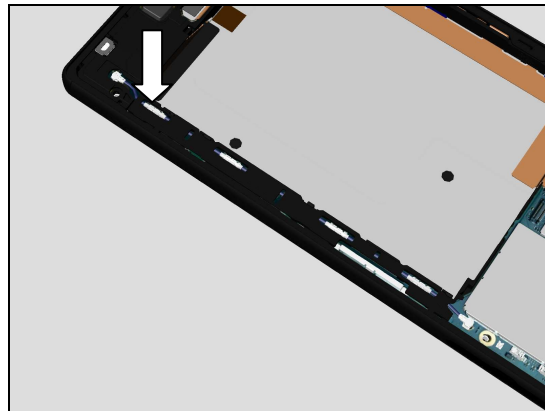
Mount the Holder Battery from this side as shown in picture.



Press to snap the Holder Battery as shown in picture.



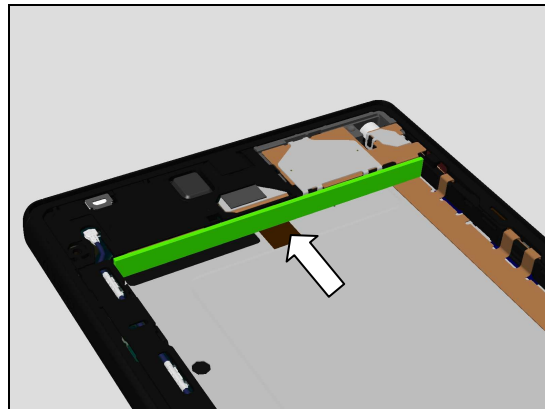
Press to snap the Holder Battery as shown in picture.



5.15 Cushion Battery Bottom

Attach a NEW Cushion Battery Bottom onto its proper position as shown in picture.

Note! The top side of the Cushion Battery Bottom is lower than the Plate Speaker and the Holder USB.

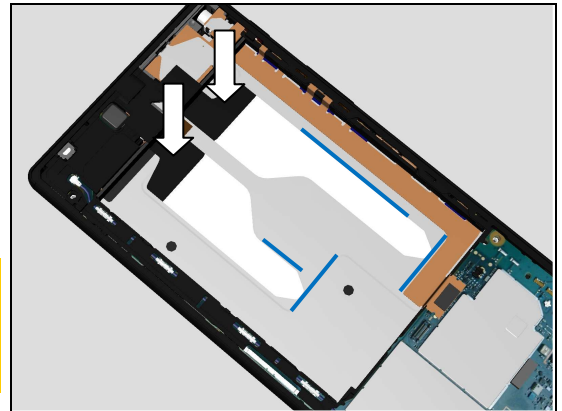


Reassembly

5.16 Adhesive Battery A and Adhesive Battery B

Attach a NEW Adhesive Battery A and Adhesive Battery B in its proper position as shown in picture.

Note! The Adhesive Battery A and Adhesive Battery B should be aligned with the guiding line, and the Adhesive Battery A should not be attached onto the FPC.

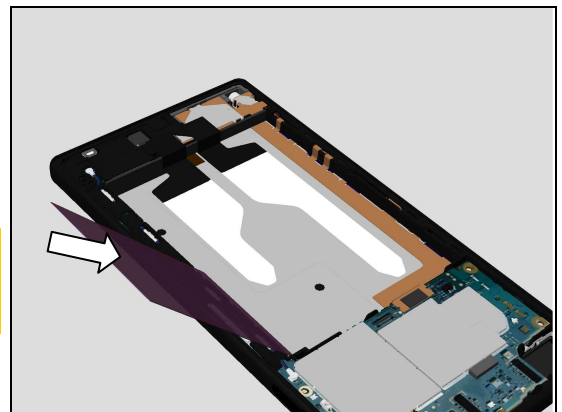


5.17 Battery

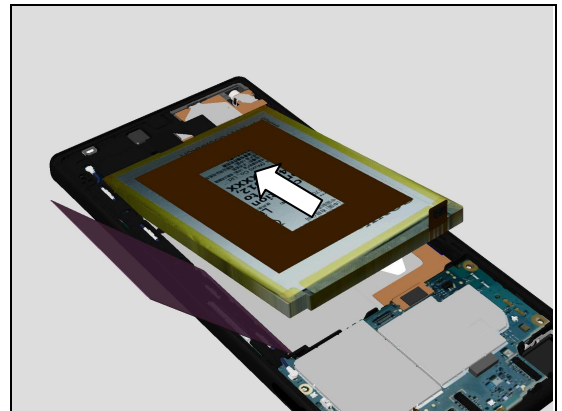
Insert a sheet as shown in picture before assembly.

This sheet is to make sure the Battery is assembled very close to the FPC Key Module.

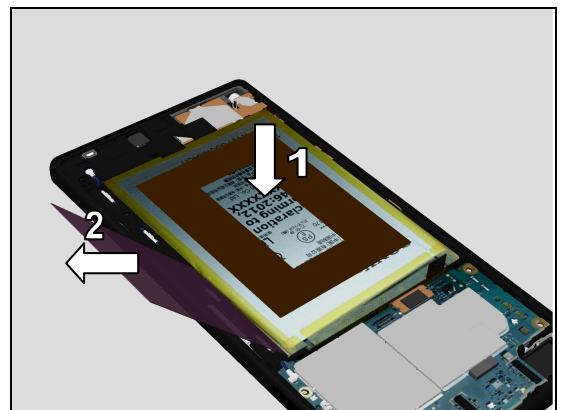
The thickness of this sheet is 0.5mm.



Mount bottom side of the Battery as shown in picture firstly.



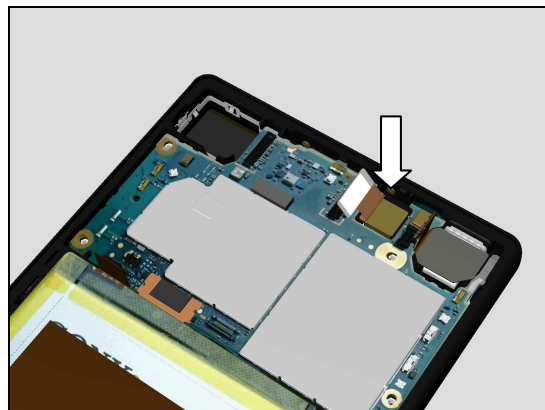
Then mount the Battery into its cavity (re1).
And then pull to remove the sheet (2).



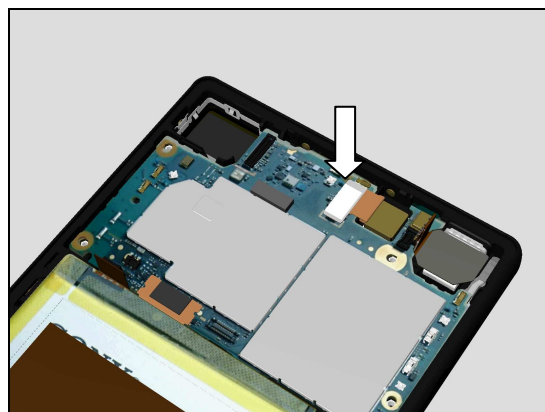
Reassembly

5.18 Chat Camera

Mount the Chat Camera into its cavity as shown in picture.

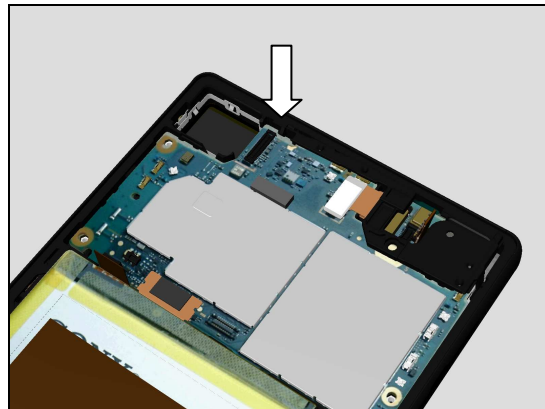


Press to snap the Chat Camera connector.

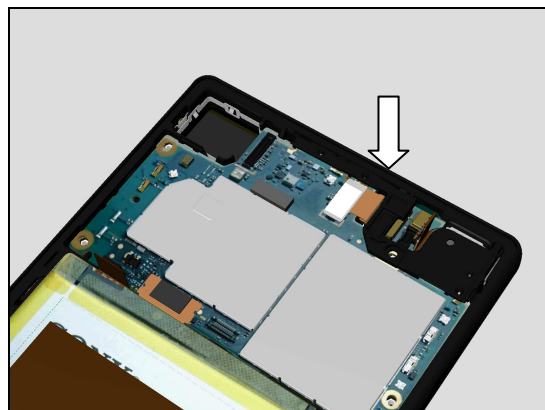


5.19 Ant Cellular Sub

Mount the Ant Cellular Sub into its cavity from this side firstly.

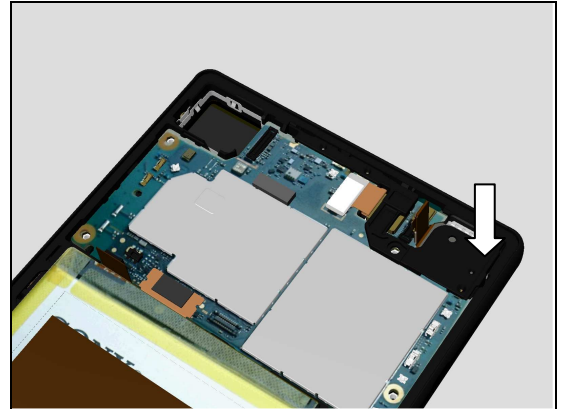


Press to snap the Ant Cellular Sub into its cavity as shown in picture.

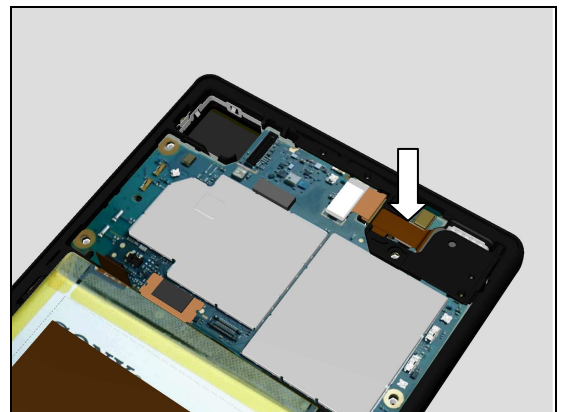


Reassembly

Press to snap the Ant Cellular Sub into its cavity as shown in picture.

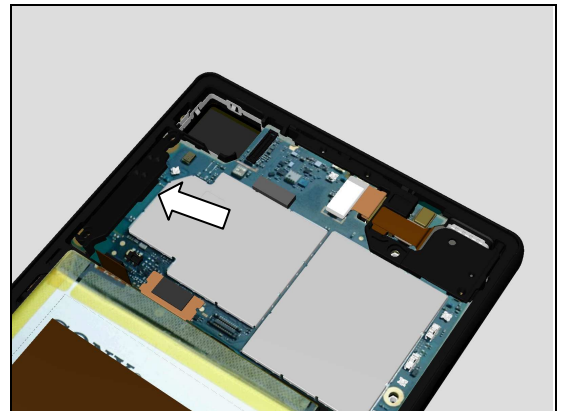


Press to snap the BtB connector of the FPC Jack Module.

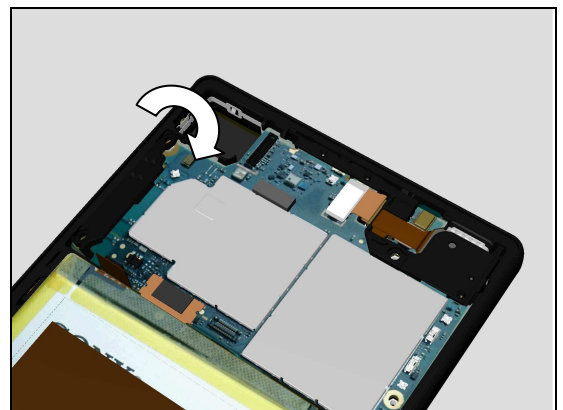


5.20 Ant WLAN

Insert to mount the Ant WLAN as shown in picture.

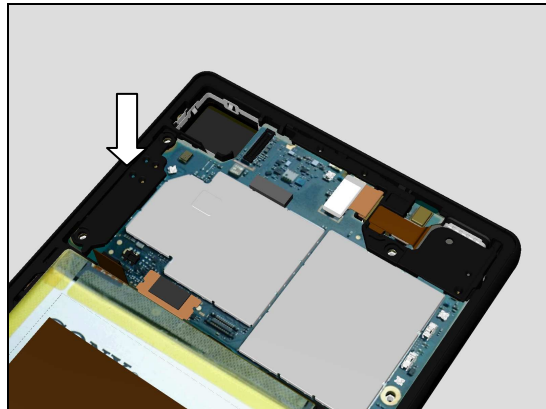


Rotate to mount the Ant WLAN.



Reassembly

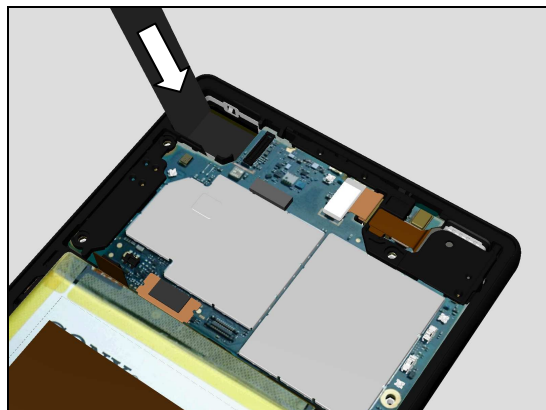
Press to secure its proper position.



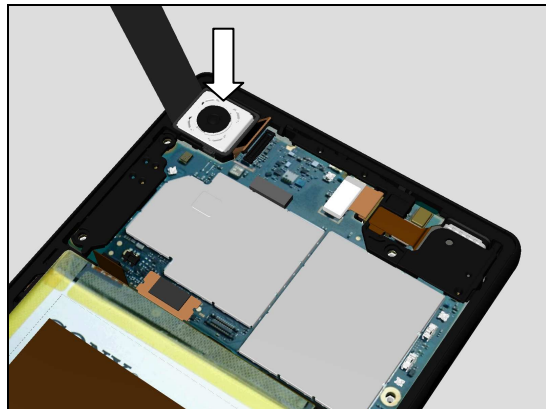
5.21 Main Camera

Insert a sheet as shown in picture before assembly.

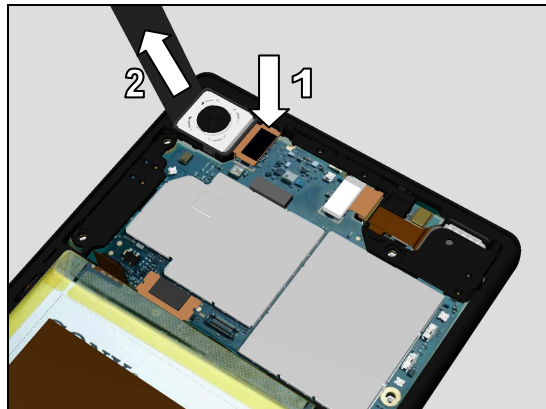
***This sheet is to protect Shield Camera when assembly.
The thickness of this sheet is 0.1mm.***



Mount the Main Camera into its cavity as shown in picture.

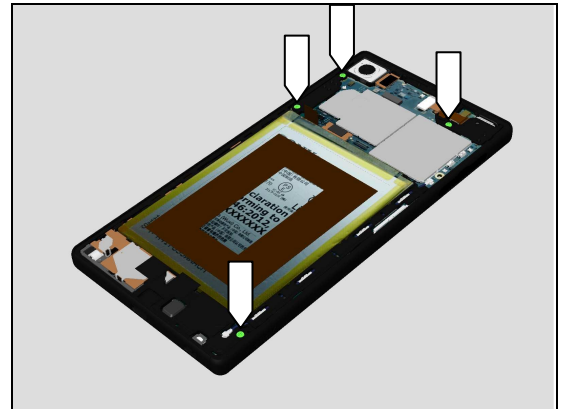


Press to snap the Main Camera connector (1).
And then pull to remove the sheet (2).



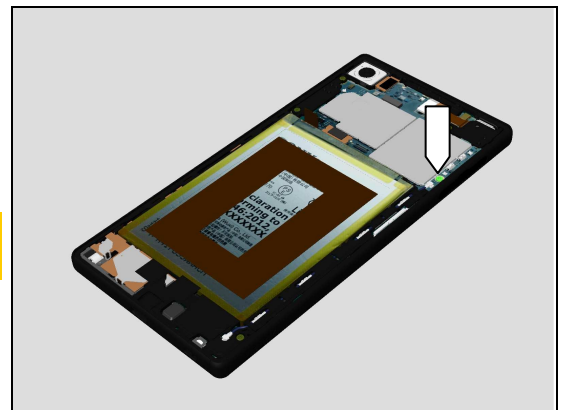
Reassembly

Apply 10Ncm torque when tightening the four Screw Other
Len:3.0 Diam:1.4 with Bits JCIS No.0.

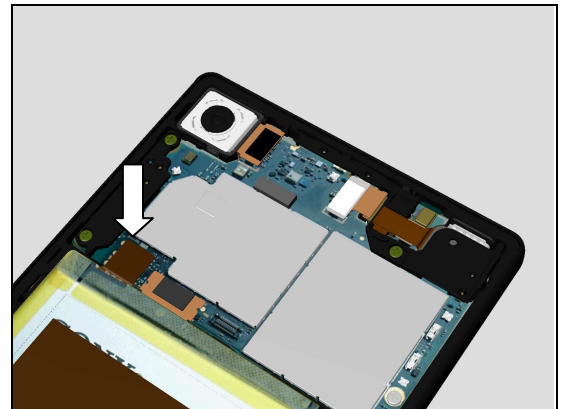


Apply 10Ncm torque when tightening the Screw Other
Len:2.6 Diam:1.4 with Bits JCIS No.0.

This is only for E6853! E6833 and E6883 do not have this screw.



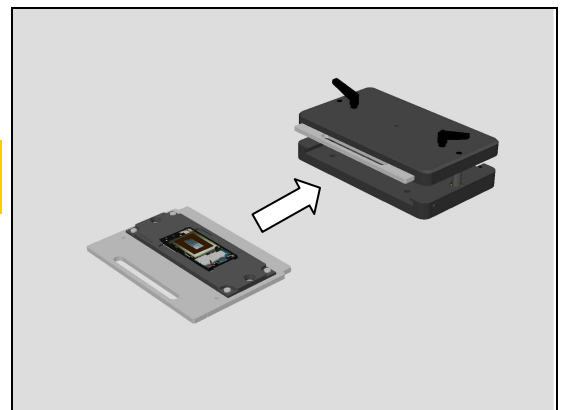
Press to snap the Battery connector.



Upper inlay = Battery Press Top Inlay

Lower inlay = Bottom Press Inlay

Place the phone in the Bottom Press Inlay and follow the instruction in 1003-9107 Tool Catalogue – mechanical and document Toothed Rack Press Instruction for use.



Reassembly

Press the Battery with a pressure value of $110\text{N} \pm 20\text{N}$ for 10 seconds.

Be careful! Do not press with a pressure bigger than this force, otherwise the Battery may be damaged.

5.22 Adhesive Battery Rear (a) and Panel Rear Sub Assy (b)

Attach the two Adhesive Battery Rear onto the Sheet Battery Rear.

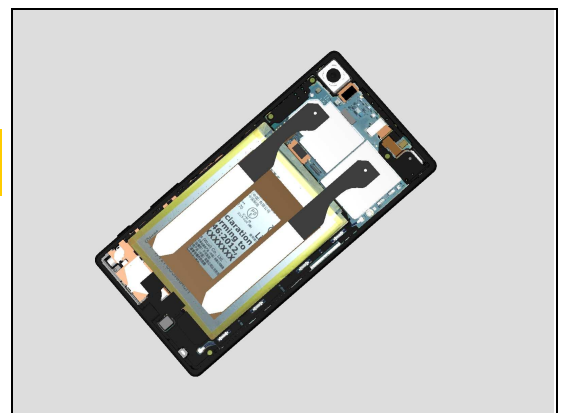
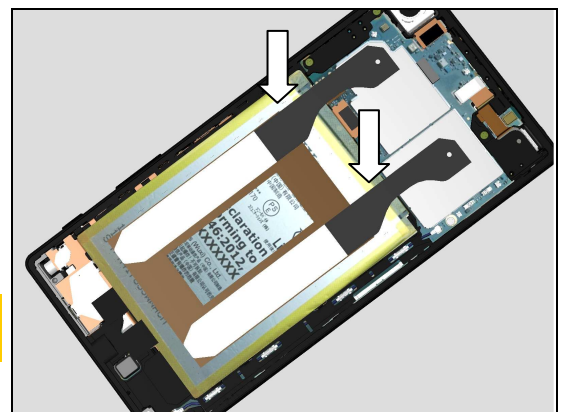
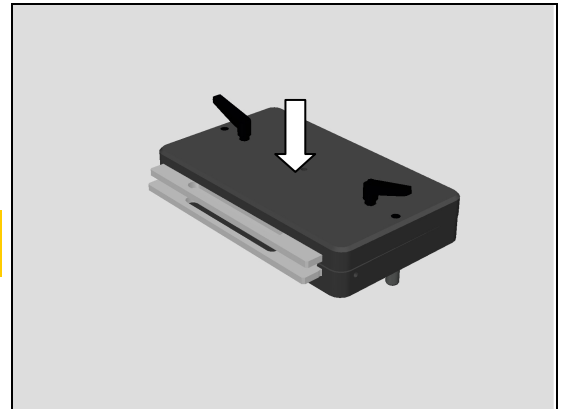
Be careful! Do not attach the Adhesive Battery Rear out of the Sheet Battery Rear.

Make sure all remaining adhesive residue have been removed before this action!

Use Isopropyl Alcohol – 99% to clean around the Adhesive WR Panel Rear attaching area on the Display Frame Assy before assembly of the Panel Rear Sub Assy.

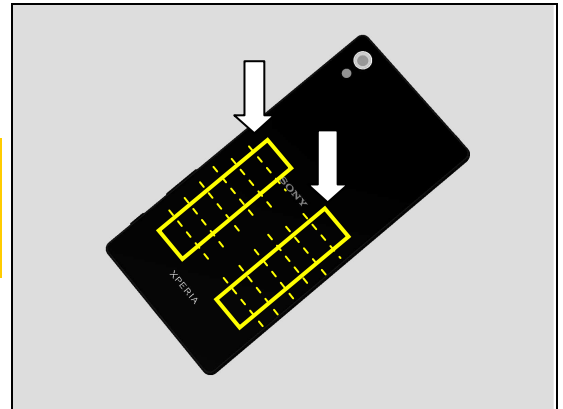
Follow the 4.28 removal and installation instruction to replace a new Adhesive WR Panel Rear.

Place the Panel Rear Sub Assy onto the Display Frame Assy.



Reassembly

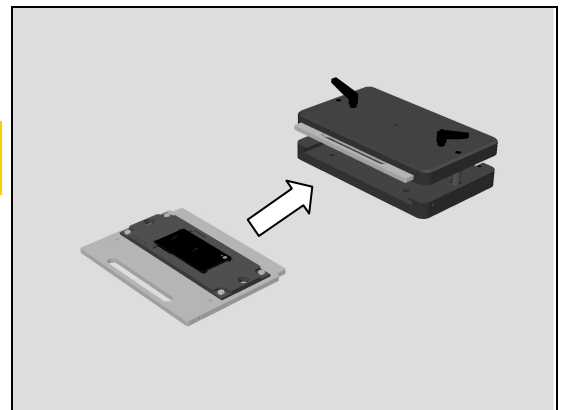
Each of the Adhesive Battery Rear area is divided into 7 parts, the length of each part is about 1 centimeter. Press hard by finger from one side to the other side part by part, press each part for 10 seconds.



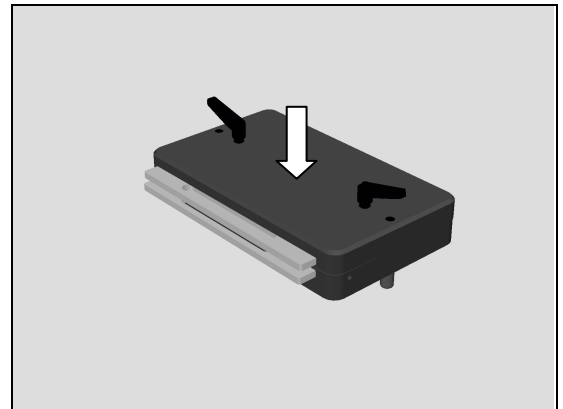
Upper inlay = Rear Panel Press Top Inlay

Lower inlay = Bottom Press Inlay

Place the phone in the Bottom Press Inlay and follow the instruction in 1003-9107 Tool Catalogue – mechanical and document Toothed Rack Press Instruction for use.

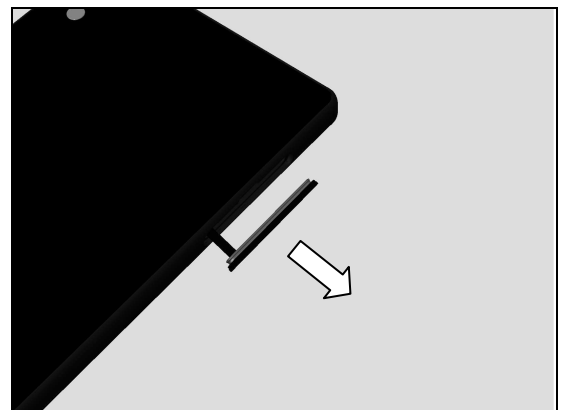


Press Panel Rear Sub Assy with a pressure value of $510\text{N} \pm 50\text{N}$ for 10 seconds.



5.23 Tray Combo SS (E6853)/ Tray Combo DS (E6833/E6883)

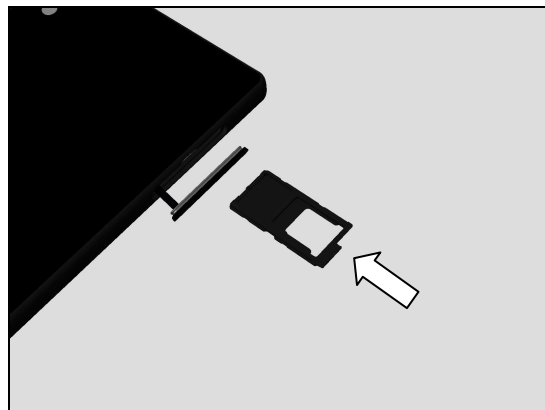
Open the Cap Combo Sub Assy.



Reassembly

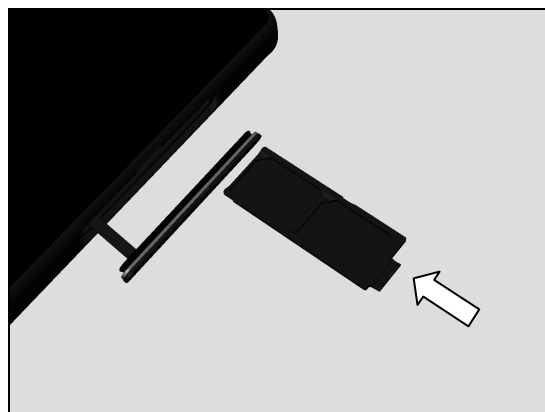
Insert the Tray Combo SS with fingers.

This is only for E6853!



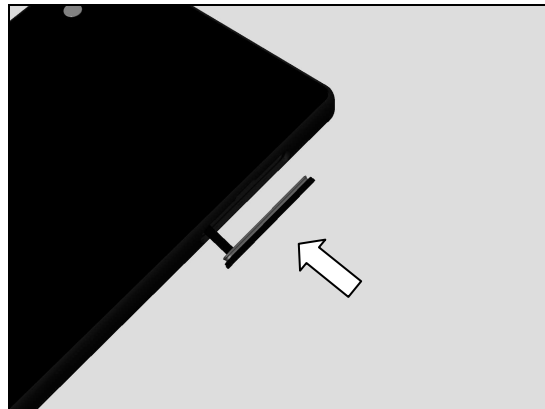
Insert the Tray Combo DS with fingers.

This is only for E6833 and E6883!



Close the Cap Combo Sub Assy.

Proximity, Gyroscope and Accelerometer Calibration must be performed after reassembly; 1289-2983 Trouble Shooting Application – mechanical.



6 Revision History

Rev.	Date	Changes / Comments
1	2015-Otc-18	Initial release
2	2015-Nov-02	Update reassembly method of battery in chapter 5.17 Added note in chapter 4.29: 'Note! Secure the correct position of the Antenna NFC, so that the contact pads of the Antenna NFC can be well contacted to the contact pins on the Main PBA.' Added a note in chapter 3.20: 'Note! If the tab or adhesive accidentally breaks, use a flat plastic stick to detach the Battery better from bottom side. And do not damage the Display Frame Assy when detaching.'
3	2015-Nov-12	Added note and picture in chapter 4.39 regarding how Zebra printer recognize the Label MoP DS correctly.