

Working Instructions

- mechanical -

Sony Xperia Ion



LT28i,LT28h



LT28at

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

1 Exterior Views

1.1 LT28at



Exterior Views

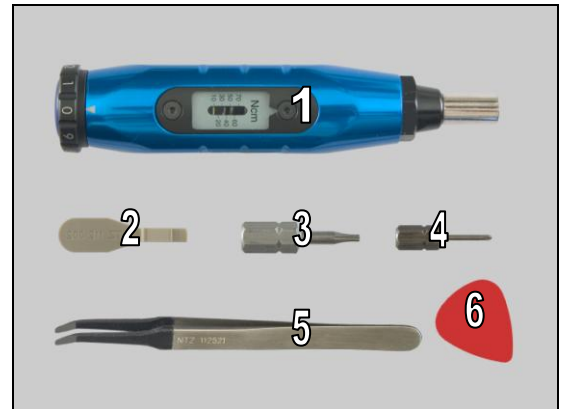
1.2 LT28i, LT28h



2 Tools

SPECIAL TOOLS

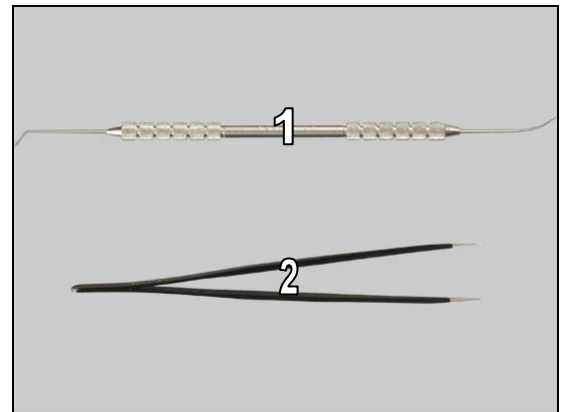
1. Torque Screwdriver
2. Front Opening Tool
3. Bits (T5)
4. Bits (JCIS No 0)
5. Flex Film Assembly Tool
6. Guitar Pick



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

STANDARD TOOLS

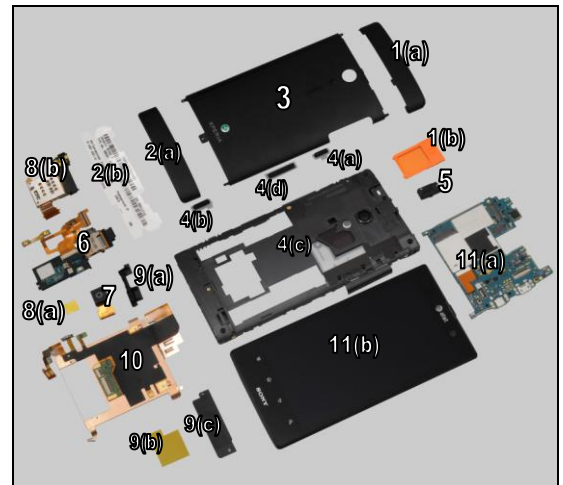
1. Dentist Hook
2. Tweezers



3 Disassembly

The disassembly is done in the following order:

1. Cover Rear Top (a) & SIM Tray (b)
2. Cover Rear Bottom (a) & Label Core Unit (b)
3. Cover Rear Sub Assy
4. Key On/Off (a) & Key Camera (b) & Frame Rear Assy (c) & Key Volume (d)
5. Audio Jack
6. Carrier NFC Assy
7. Camera
8. Sheet RCV Flex ZIF (a) & FPC Top Flex Assy (b)
9. Carrier Holder Bottom (a) & Sheet Touch ZIF (b) & Sheet LCM FPC (c)
10. FPC Bottom Flex Assy
11. Main PBA (a) & Cover Front Assy (b)



3.1 Cover Rear Top & SIM Tray

Push upwards to unsnap the hooks of the Cover Rear Top gently and remove it.



Pull out the SIM Tray with finger.



3.2 Cover Rear Bottom & Label Core Unit

Insert a Guitar Pick as shown in picture and gently slide back and forth to release the hooks of the Cover Rear Bottom.



Disassembly

Remove the Cover Rear Bottom.



Carefully peel off the Label Core Unit by using a Flex Film Assembly Tool.

Do not damage the antenna under the Label Core Unit!
Scrap! Not to be reused!



3.3 Cover Rear Sub Assy

Remove the two screws M1.4X2.0 by using a screwdriver with Bits (JCIS No 0).

Scrap! Not to be reused!



Remove the two screws M1.4X2.0 on the opposite side by using a screwdriver with Bits (JCIS No 0).

Scrap! Not to be reused!



Disassembly

Remove the screw M1.4X2.0 by using a screwdriver with Bits (JCIS No 0).

Scrap! Not to be reused!



There are four snap hooks securing the Cover Rear Sub Assy.



Insert a Guitar Pick and gently pull upwards to release the two hooks as shown in picture.

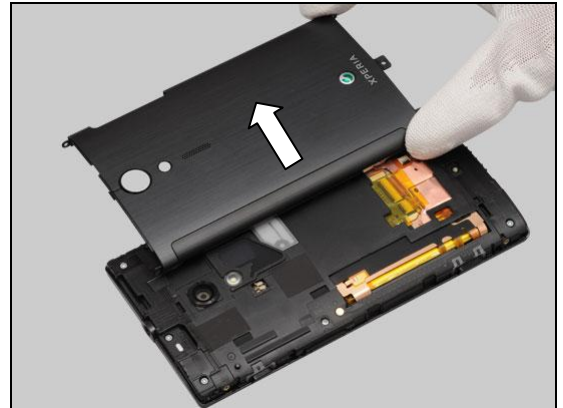


Do the same on the opposite side to release the two hooks as shown in picture.



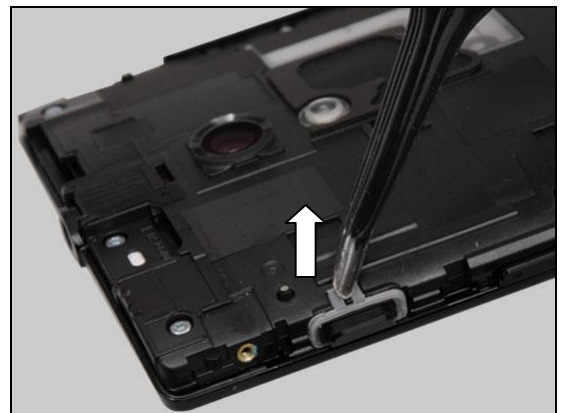
Disassembly

Remove the Cover Rear Sub Assy.

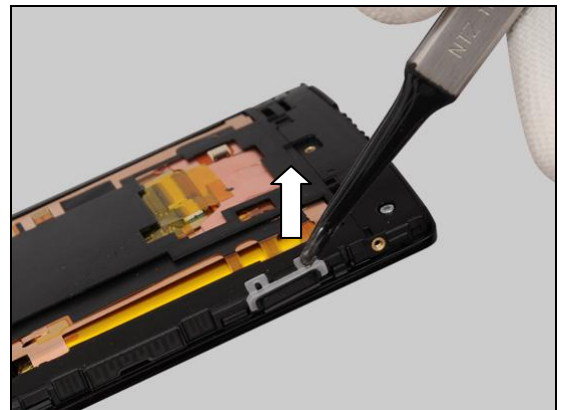


3.4 Key On/Off & Key Camera & Frame Rear Assy & Key Volume

Remove the Key On/Off.

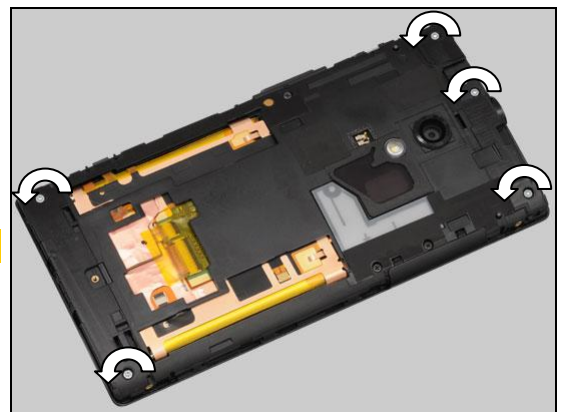


Remove the Key camera.



Remove the five screws Other Len:4.0 Diam:1.4 by using a screwdriver with Bits (T5).

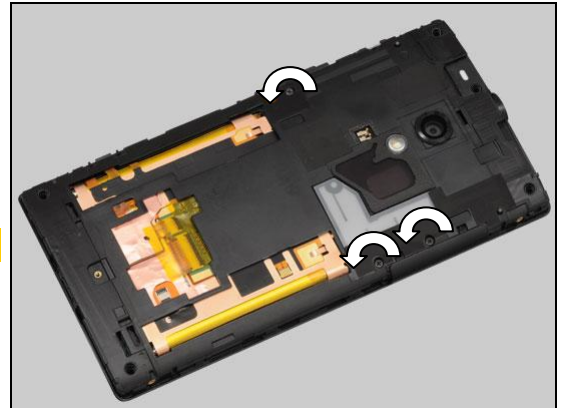
Scrap! Not to be reused!



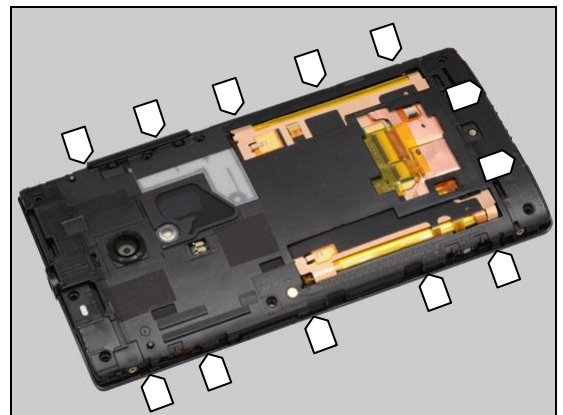
Disassembly

Remove the screws Other Len:3.0 Diam:1.4 by using a screwdriver with Bits (JCIS No 0).

Scrap! Not to be reused!

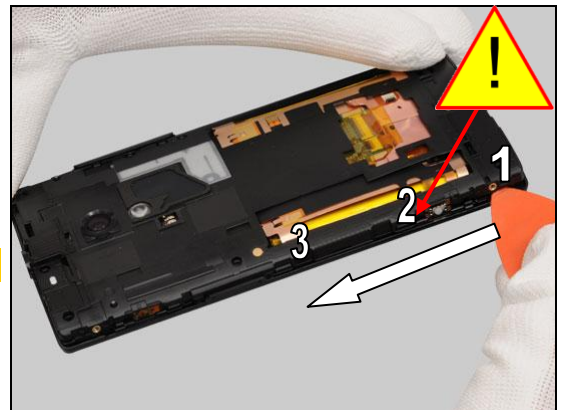


There are twelve snap hooks securing the Frame Rear Assy.

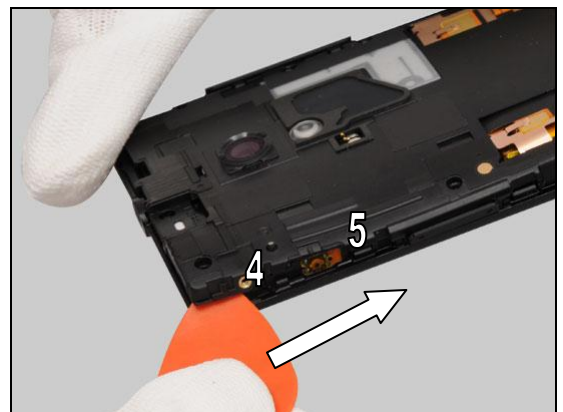


Insert a Guitar Pick as shown in picture and carefully slide along to release the three hooks of this side as indicated by the arrow.

Be careful! Do not damage the Frame Rear Assy!

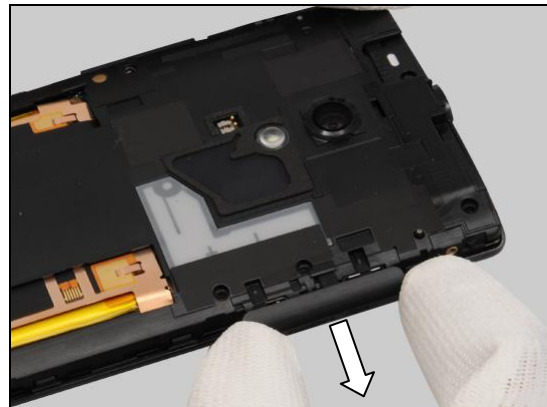


Do the same to release the two hooks as indicated by the arrow.



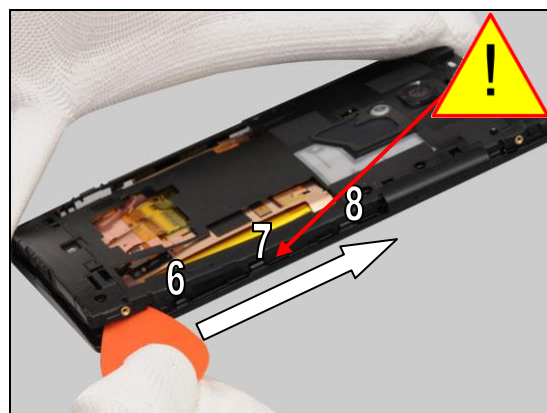
Disassembly

Gently pull to unsnap the Cap USB HDMI as shown in picture.



Do the same on the opposite side to release the three hooks as shown.

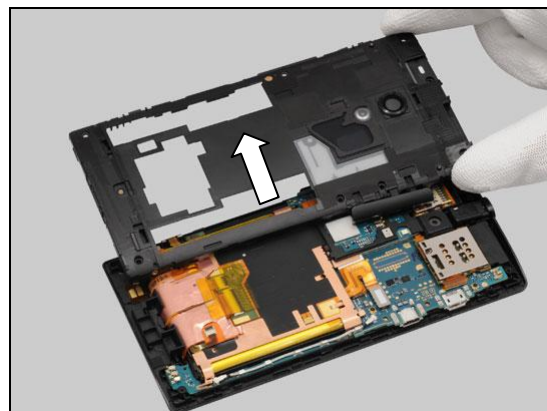
Be careful! Do not damage the Frame Rear Assy!



Insert the Guitar Pick and gently push upwards to release the Frame Rear Assy.

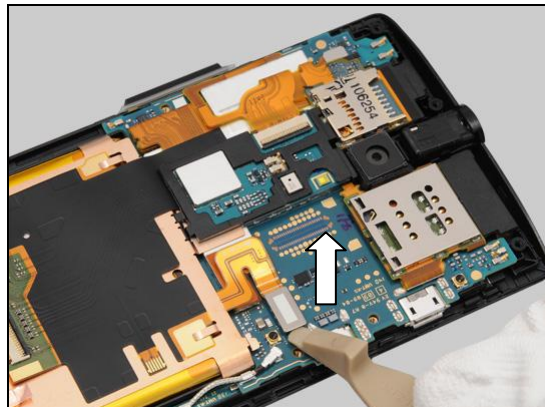


Remove the Frame Rear Assy.

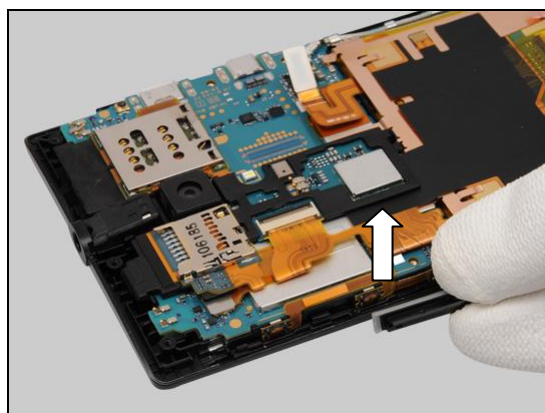


Disassembly

Disconnect the BtB connector of the Battery 1900mAh first!

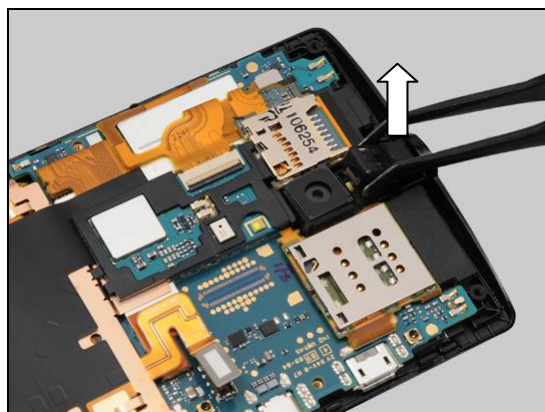


Remove the Key Volume.



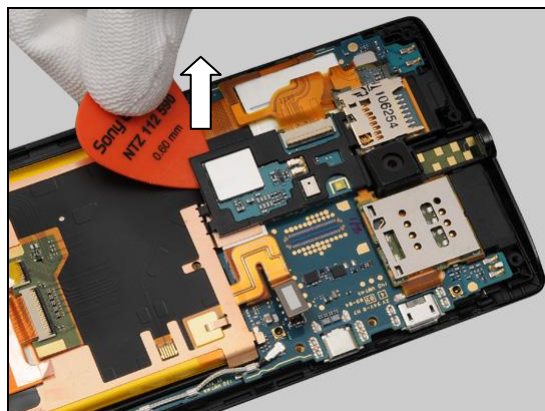
3.5 Audio Jack

Gently remove the Audio Jack by using a Flex Film Assembly Tool.



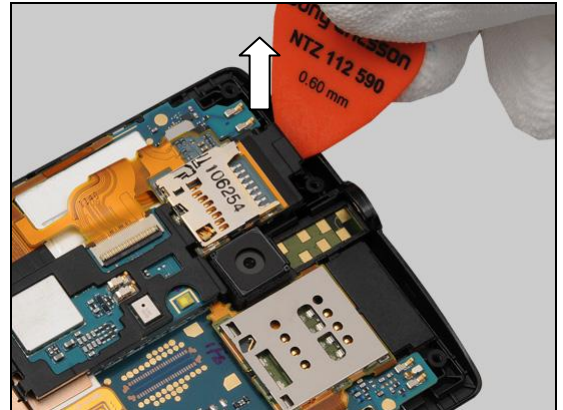
3.6 Carrier NFC Assy

Insert a Guitar Pick and gently pull upwards to release the hooks of the Carrier NFC Assy.

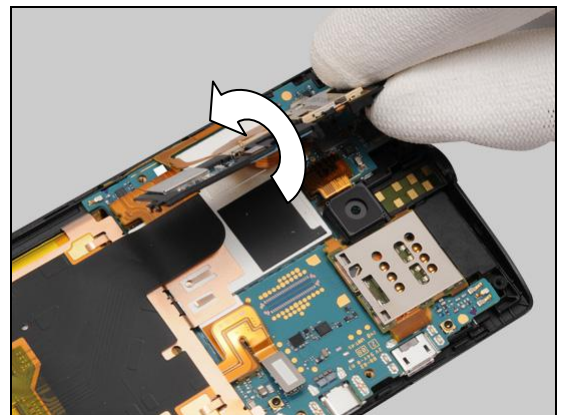


Disassembly

Do the same to release the hook of this side.

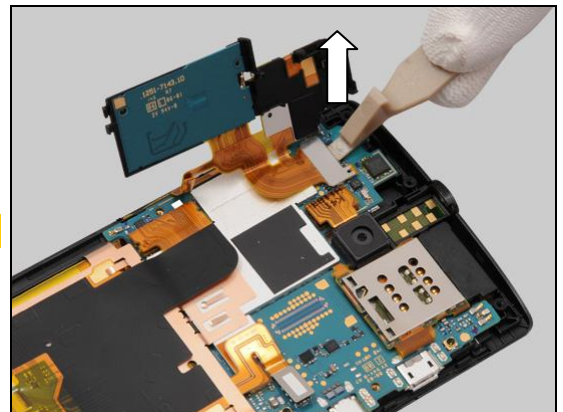


Turn it over.

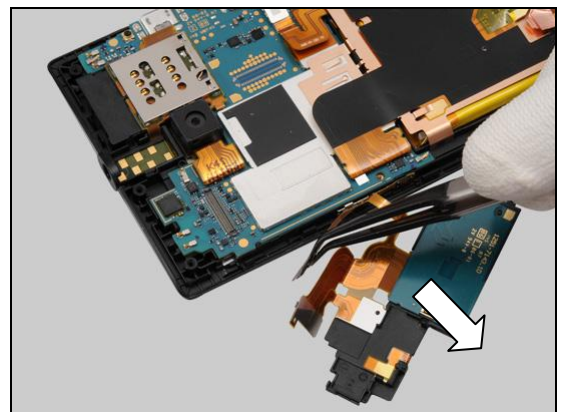


Unsnap the BtB connector.

Do not damage the components on the Main PBA!



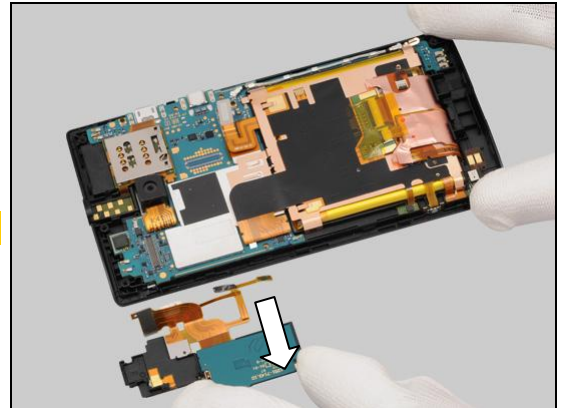
Gently remove the switch keys as shown in picture by using a Flex Film Assembly Tool.



Disassembly

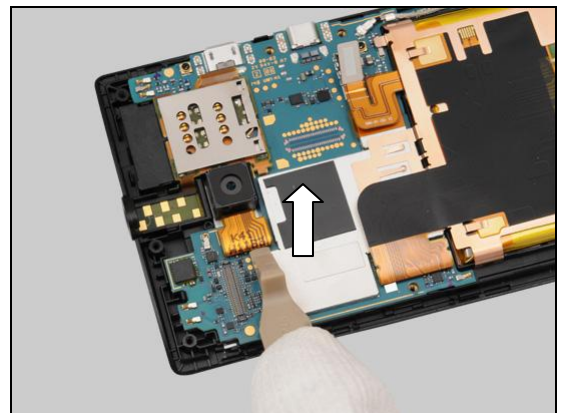
Remove the Carrier NFC Assy.

Scrap the FPC Side Key! Not to be reused!



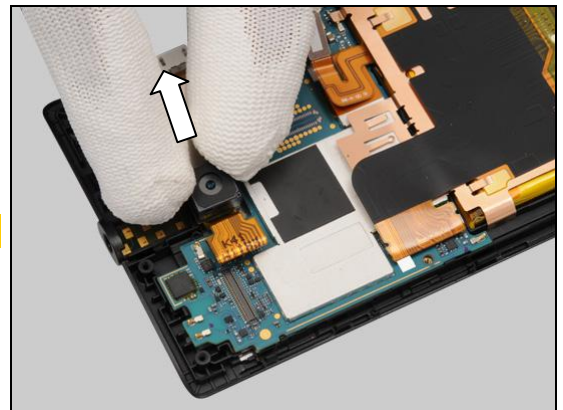
3.7 Camera

Use a Front Opening Tool to disconnect the BtB connector.



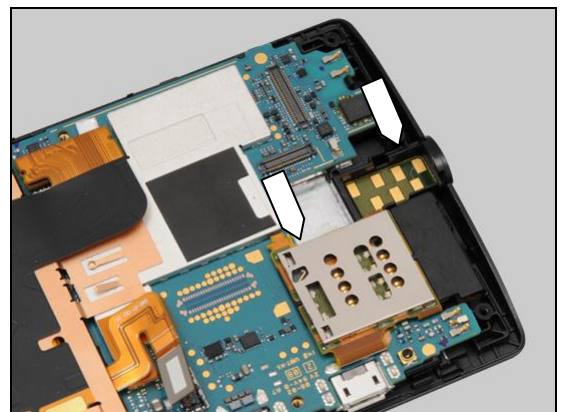
Remove the Camera.

Do not touch the lens!



3.8 Sheet RCV Flex ZIF & FPC Top Flex Assy

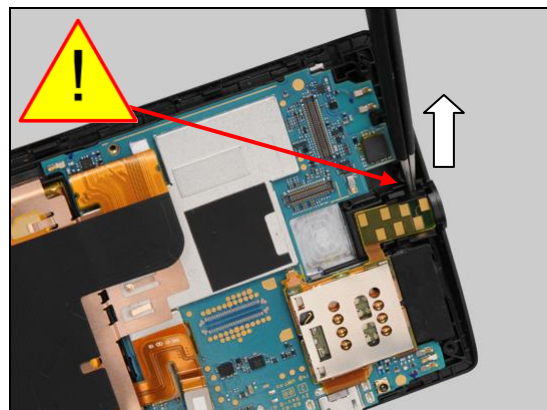
There are two hooks securing the FPC Top Flex Assy.



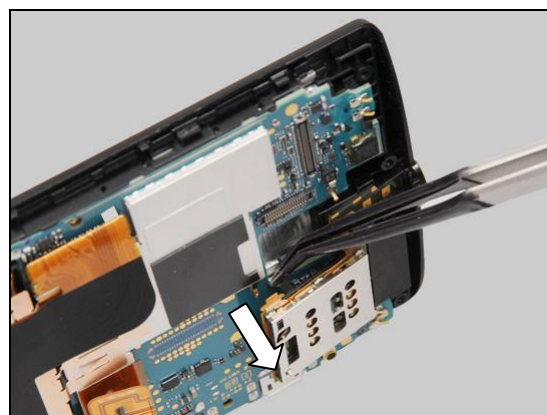
Disassembly

Insert a pair of Tweezers as shown in picture and gently pull upwards to release the FPC from the Audio Jack socket.

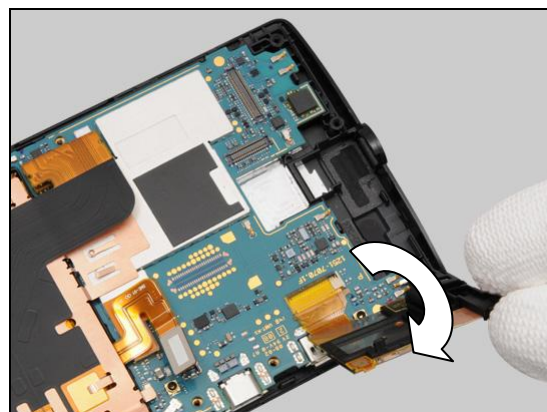
Be careful! Do not damage the Cover Front Assy!



Insert a Flex Film Assembly Tool from this side to release the hook as shown.

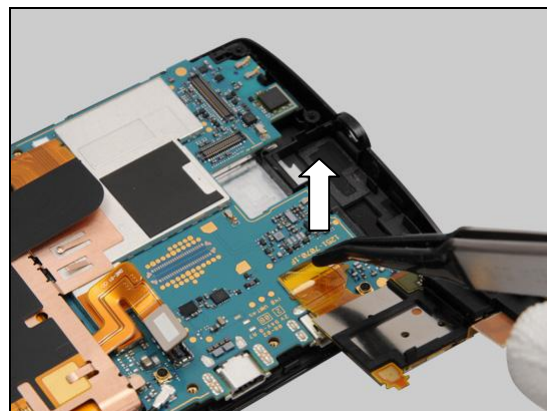


Turn the FPC Top Flex Assy over.



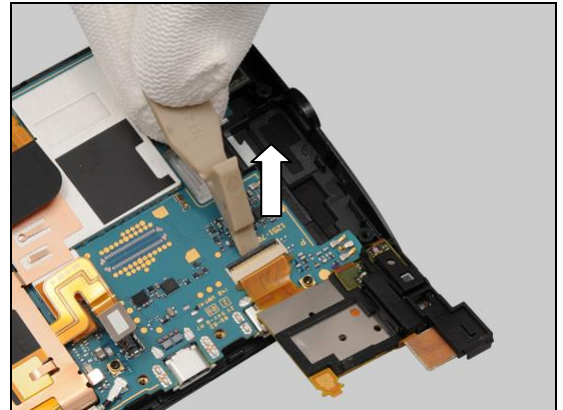
Gently peel off the Sheet RCV Flex ZIF.

Scrap! Not to be reused!

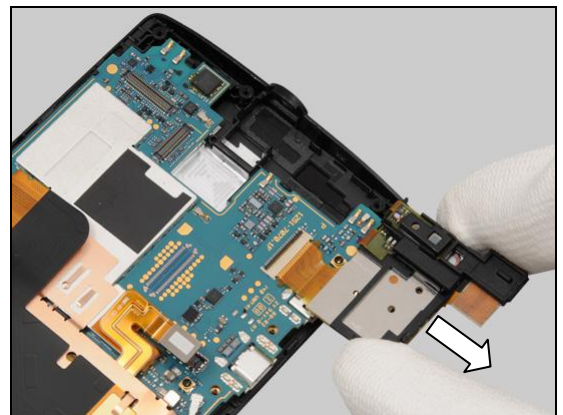


Disassembly

Unlock the ZIF connector.

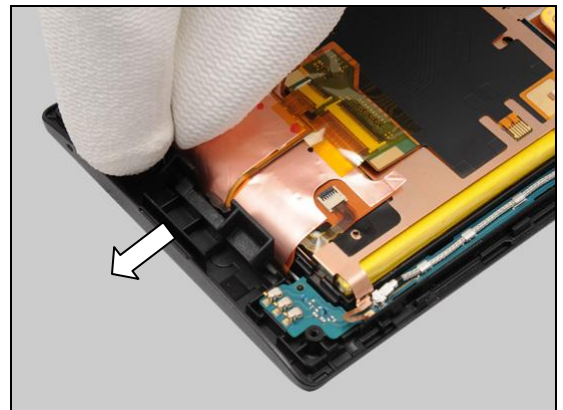


Remove the FPC Top Flex Assy.

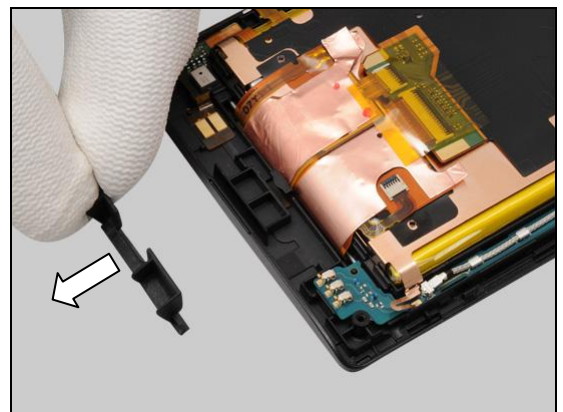


3.9 Carrier Holder Bottom & Sheet Touch ZIF & Sheet LCM FPC

Pull outward to release the Carrier Holder Bottom from the hook of this side as shown.



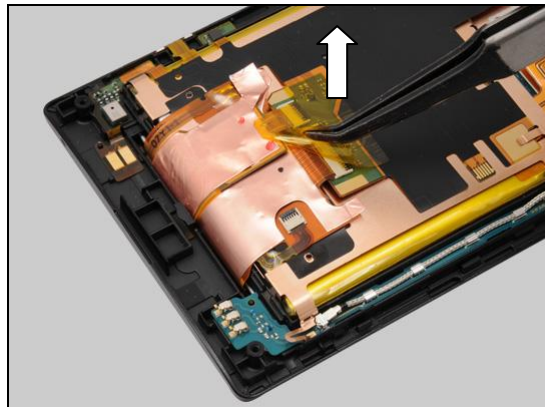
Remove the Carrier Holder Bottom.



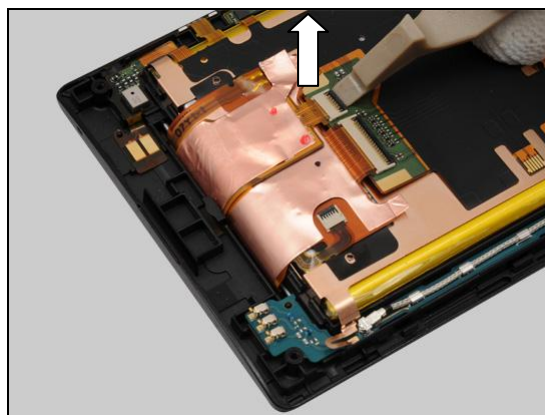
Disassembly

Gently peel off the Sheet Touch ZIF and remove it by using a Flex Film Assembly Tool.

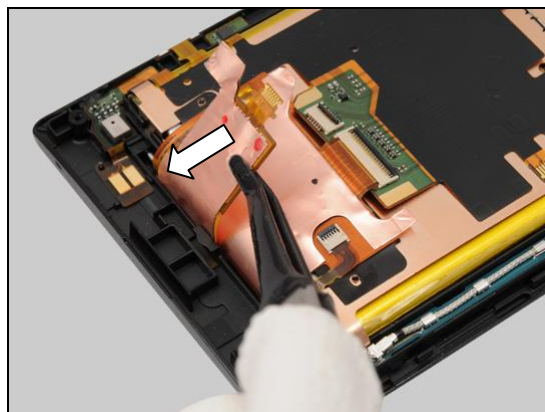
Scrap! Not to be reused!



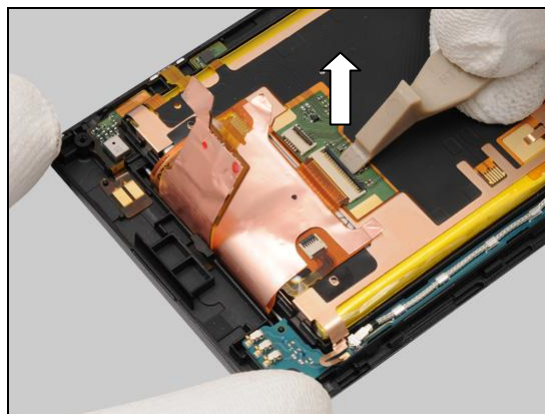
Unlock the ZIF connector by using a Front Opening Tool.



Release the touch screen FPC by using a Flex Film Assembly Tool.

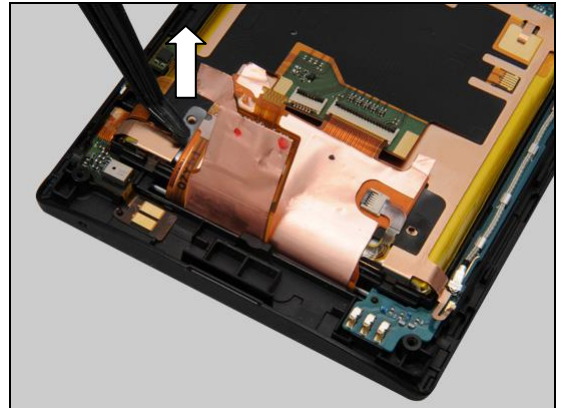


Unlock the ZIF connector as shown.

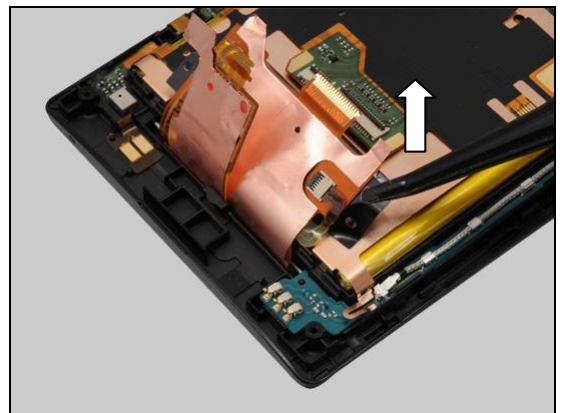


Disassembly

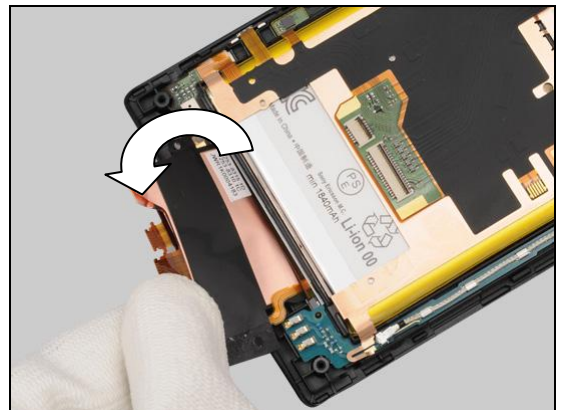
Gently detach this side of the Sheet LCM FPC from the Sheet Metal Battery Plate as shown.



Do the same to the other side.

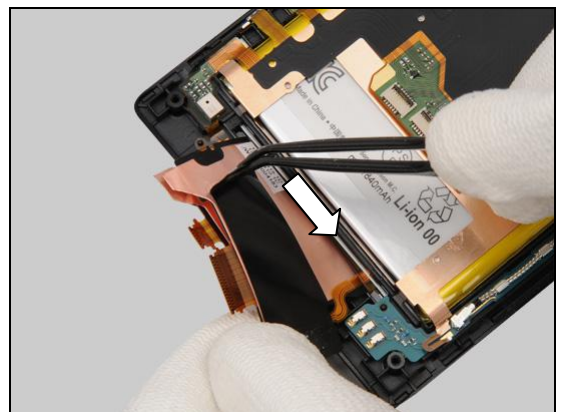


Turn it over.



Gently peel off the Sheet LCM FPC by using a Flex Film Assembly Tool.

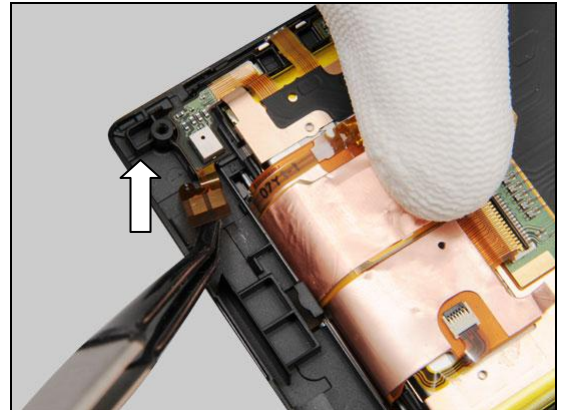
Scrap! Not to be reused!



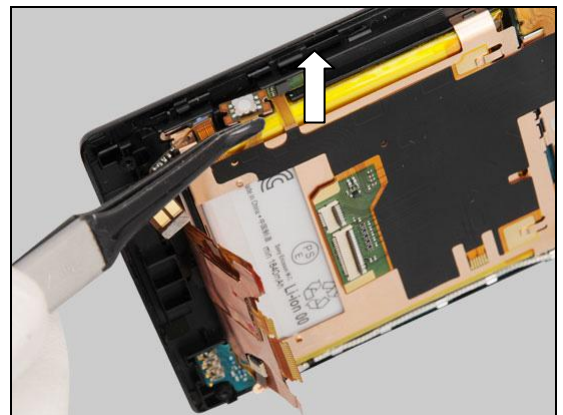
Disassembly

3.10 FPC Bottom Flex Assy

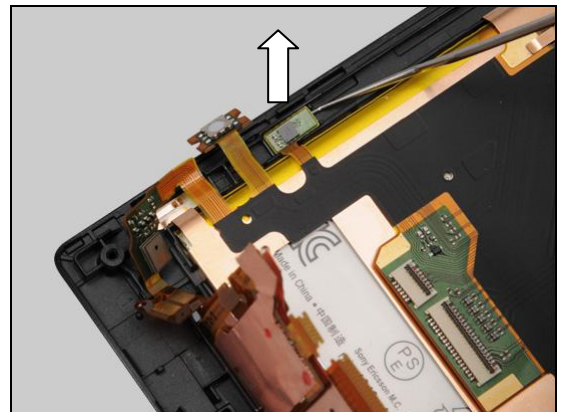
Gently detach the FPC by using a Flex Film Assembly Tool as shown in picture.



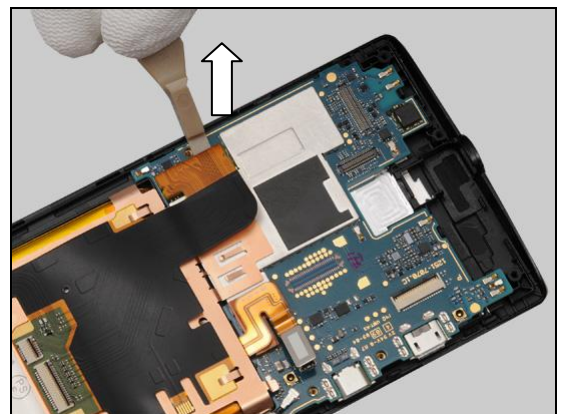
Use a Flex Film Assembly Tool to release the camera switch as shown.



Carefully insert a Dentist Hook as shown in picture to release the FPC from the cavity.

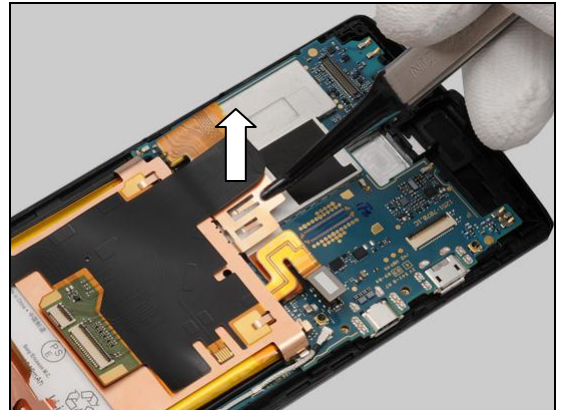


Unsnap the BtB connector.

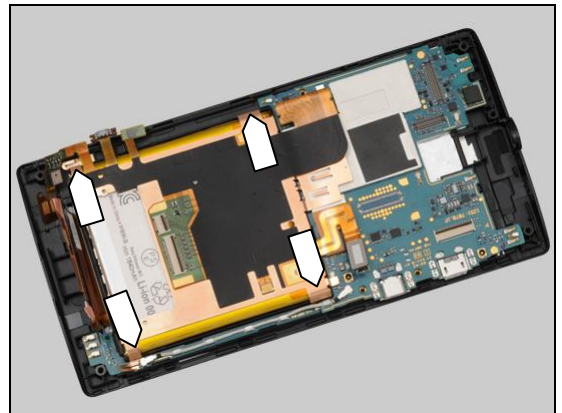


Disassembly

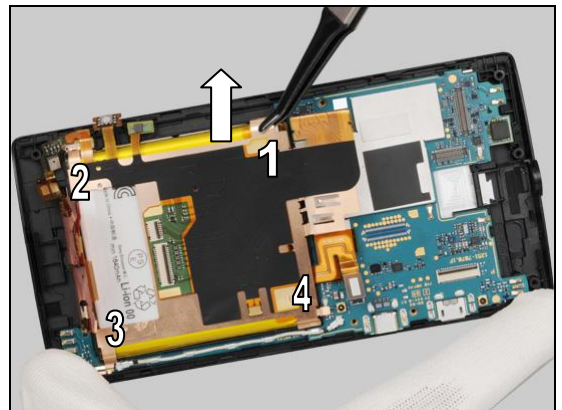
Gently detach the Sheet Metal Battery Plate from the shield can.



There are four snap hooks securing the Sheet Metal Battery Plate

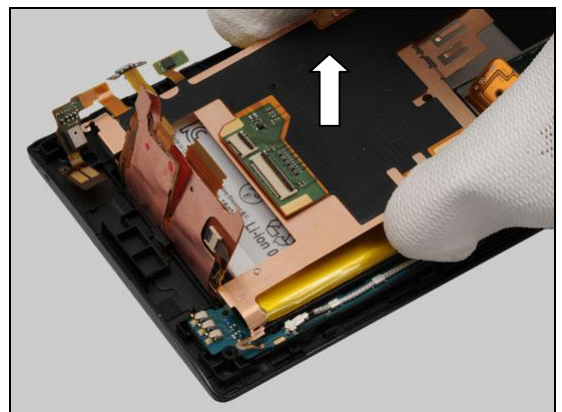


Gently lift up to release the four hooks as shown in the picture.



Remove the FPC Bottom Flex Assy with fingers.

Scrap! Not to be reused!



Disassembly

3.11 Main PBA & Cover Front Assy

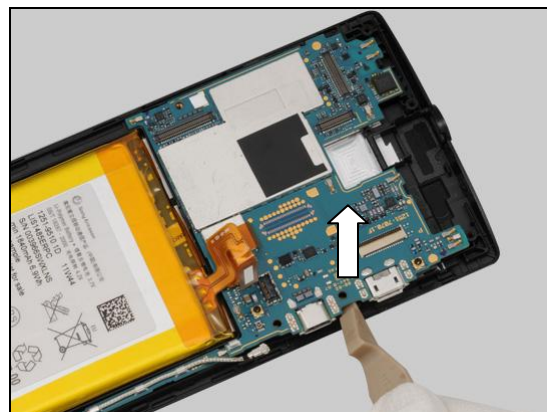
Unsnap the connector of the Cable RF by using a Front Opening Tool.



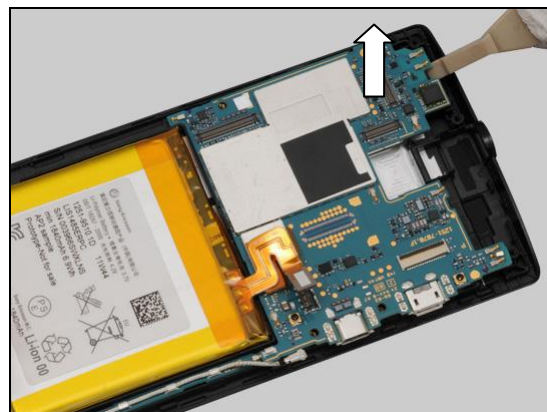
Gently release the Cable RF from the hook of the Main PBA as shown by using a Flex Film Assembly Tool.



Insert a Front Opening Tool as shown in picture and pull upwards to release the hook of this side.



Do the same with the hooks of this side as shown.



Disassembly

Remove the Main PBA.



4 Replacement

4.1 Cover Rear Top

Follow the 3.1 Cover Rear Top Disassembly instructions!

Prepare a new Cover Rear Top.

Follow the 5.11 Cover Rear Top Reassembly instructions!



4.2 SIM Tray

Follow the 3.1 Disassembly instructions!

Prepare a new SIM Tray.

Follow the 5.11 Reassembly instructions!



4.3 Cover Rear Bottom

Follow the 3.2 Cover Rear Bottom Disassembly instructions!

Prepare a new Cover Rear Bottom.

Follow the 5.10 Cover Rear Bottom Reassembly instructions!



Replacement

4.4 Label Core Unit

Carry out the Removal as described below!

Prepare a new Label Core Unit.

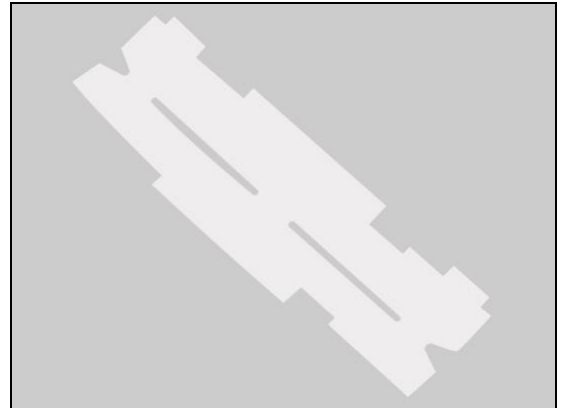
Carry out the Installation as described below.

REMOVAL

Insert a Guitar Pick as shown in picture and gently slide back and forth to release the hooks of the Cover Rear Bottom.

Remove the Cover Rear Bottom.

Read the old Mobile Phone Label and write the information into the 'LabelMake' program before removal.



Replacement: Label Core Unit

Carefully peel off the Label Core Unit by using a Flex Film Assembly Tool.

Do not damage the antenna under the Label Core Unit!
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 Make' software.

Attach a new Label Core Unit on its proper position as indicated by the blue lines.

Press along to secure its attachment and position.

Fold the bottom of the Label Core Unit along the broken line.



Replacement: Label Core Unit

Prepare the Cover Rear Bottom.



Place the Cover Rear Bottom on the proper position.



Press to snap the hooks.



Replacement

4.5 Sheet Protection Window

Carry out the Removal as described below.
Prepare a new Sheet Protection Window.
Carry out the Installation as described below.

REMOVAL

Peel off the Sheet Protection Window to remove it.

Scrap! Not to be reused!

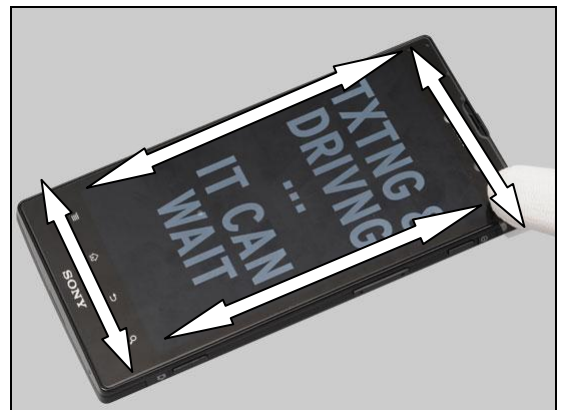


INSTALLATION

Clean the touch screen and attach a new Sheet Protection Window on its proper position as shown.



Press along to secure its attachment.



Replacement

4.6 Cap USB HDMI

Carry out the Removal as described below.
Prepare a new Cap USB HDMI.
Carry out the Installation as described below.

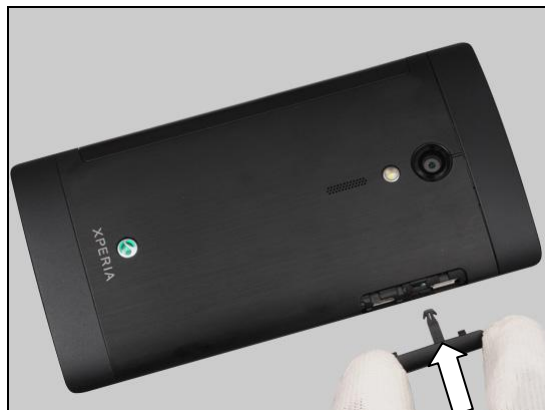
REMOVAL

Unsnap the hooks of the Cap USB HDMI with fingers as shown in picture.

Pull to remove it.

INSTALLATION

Insert the Cap USB HDMI into the slot.



Replacement: Cap USB HDMI

Push it to secure its position.



Replacement

4.7 Cover Rear Sub Assy

Follow the 3.1 – 3.3 Disassembly instructions!

Prepare a new Cover Rear Sub Assy.

Follow the 4.8 Installation instructions!

Follow the 5.9 – 5.11 Reassembly instructions!



Replacement

4.8 Antenna NFC Flex

Follow the 3.1 – 3.3 Disassembly instructions!

Carry out the Removal as described below.

Prepare a new Antenna NFC Flex.

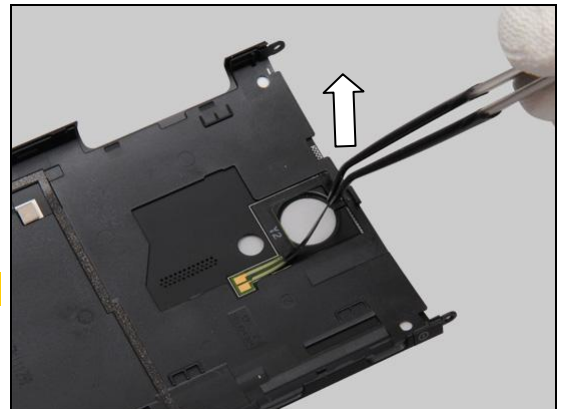
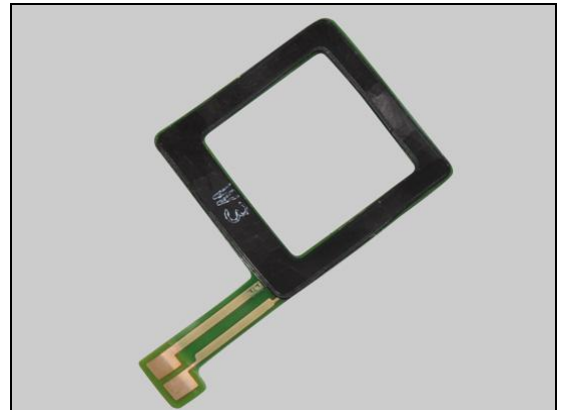
Carry out the Installation as described below.

Follow the 5.9 – 5.11 Reassembly instructions!

REMOVAL

Peel off the Antenna NFC Flex by using a Flex Film Assembly Tool.

Scrap! Not to be reused!

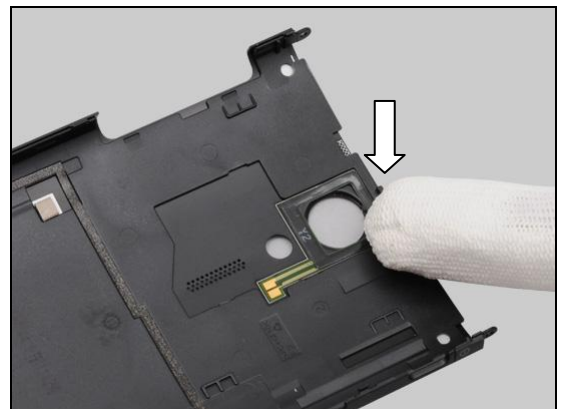


INSTALLATION

Place a new Antenna NFC Flex on its proper position as indicated by the guide line.



Press along to secure its position.



Replacement

4.9 Key On/Off

Follow the 3.1 – 3.4 Disassembly instructions!

Prepare a new Key On/Off.

Follow the 5.8 – 5.11 Reassembly instructions!



4.10 Key Camera

Follow the 3.1 – 3.4 Disassembly instructions!

Prepare a new Key Camera.

Follow the 5.8 – 5.11 Reassembly instructions!



4.11 Frame Rear Assy

Follow the 3.1 – 3.4 Disassembly instructions!

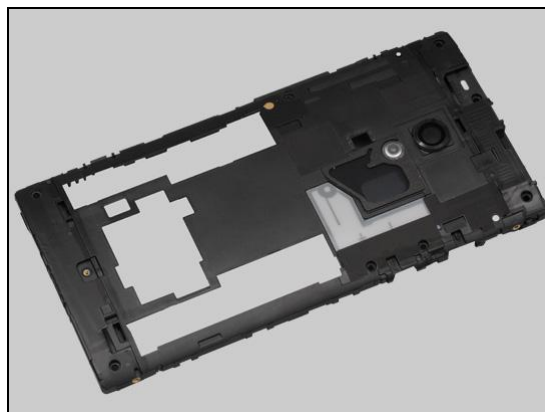
Follow the 4.6, 4.12 and 4.15 Removal instructions!

Prepare a new Frame Rear Assy.

Follow the 4.12, 4.15 and 4.6 Installation instructions!

Follow the 5.8 – 5.11 Reassembly instructions!

The gasket Mic on the Frame Rear Assy must be removed following 4.26 Rubber Mic- removal and installation instruction!



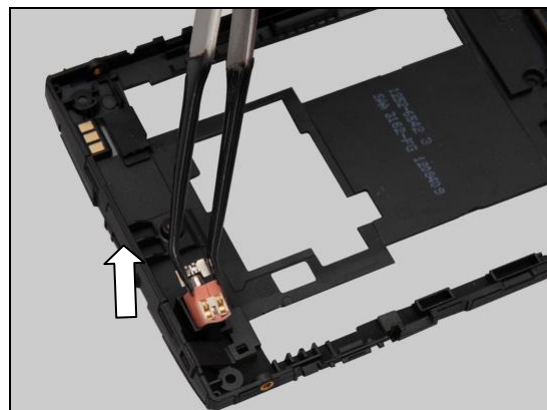
Replacement

4.12 Vibrator

Follow the 3.1 – 3.4 Disassembly instructions!
Carry out the Removal as described below.
Prepare a new Vibrator.
Carry out the Installation as described below.
Follow the 5.8 – 5.11 Reassembly instructions!

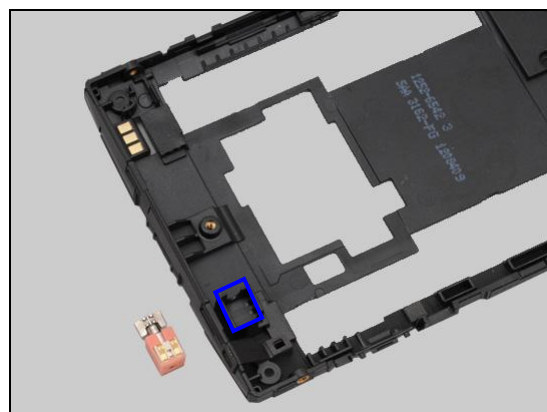
REMOVAL

Lift up to remove the Vibrator from the cavity.

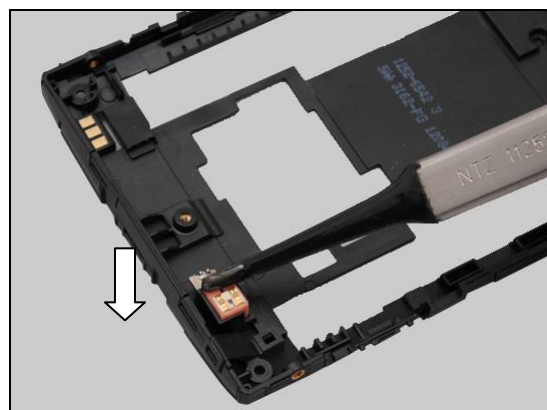


INSTALLATION

Place a new Vibrator in the cavity.



Press to secure its position.



Replacement

4.13 Loudspeaker & Adhesive Speaker

Follow the 3.1 – 3.4 Disassembly instructions!

Carry out the Removal as described below.

Prepare a new Loudspeaker and a new Adhesive Speaker.

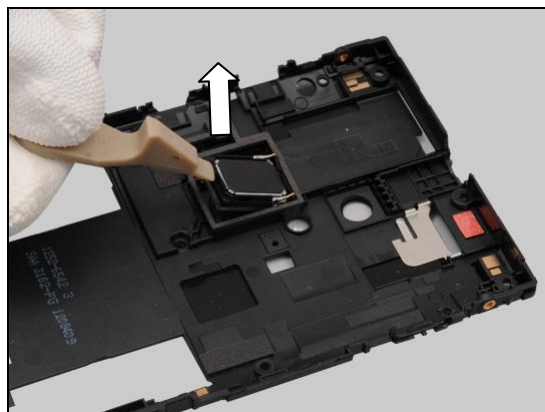
Carry out the Installation as described below.

Follow the 4.14 Installation instructions!

Follow the 5.8 – 5.11 Reassembly instructions!

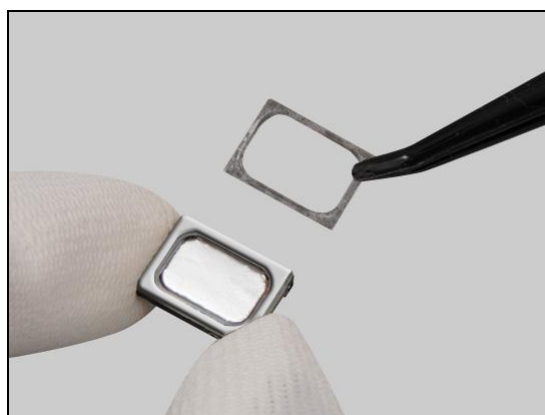
REMOVAL

Detach to remove the Loudspeaker from the cavity by using a Front Opening Tool.

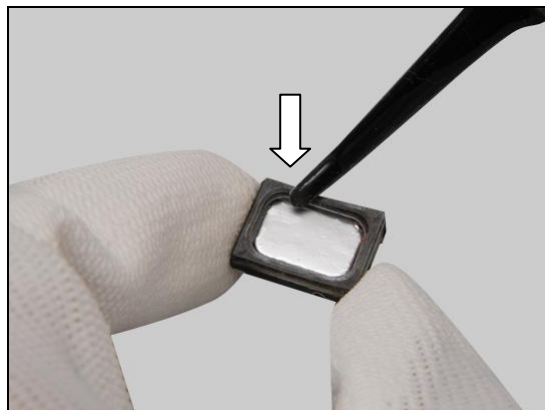


INSTALLATION

Place a new Adhesive speaker on the new Loudspeaker.



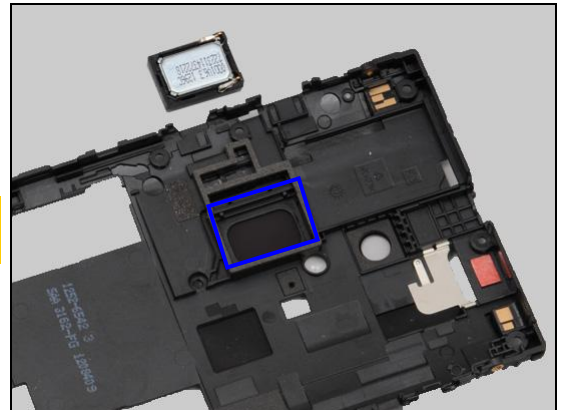
Press to secure its attachment.



Replacement: Loudspeaker & Adhesive Speaker

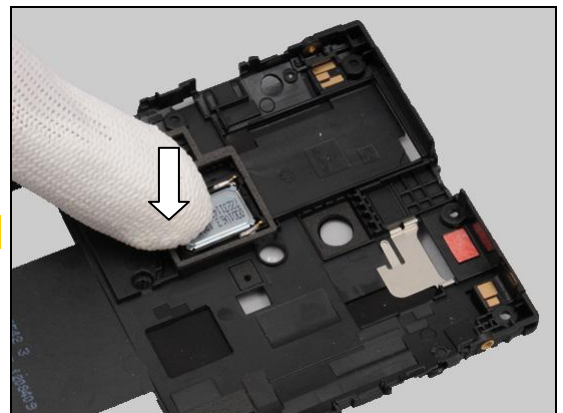
Place it in the cavity.

Note the orientation of the Rubber Conductive GND to be installed!



Press to secure its attachment and position.

Do not touch the pins!



Replacement

4.14 Sheet Speaker

Follow the 3.1 – 3.4 Disassembly instructions!

Carry out the Removal as described below.

Prepare a new Sheet Speaker.

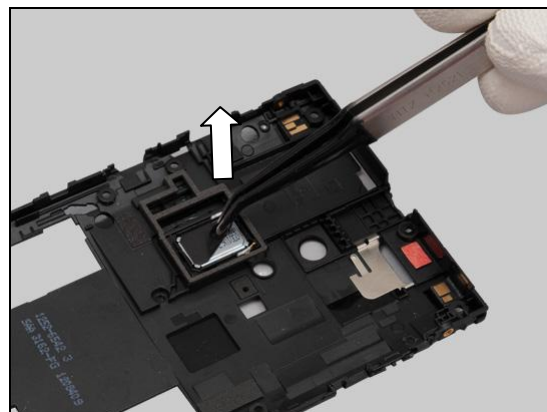
Carry out the Installation as described below.

Follow the 5.8 – 5.11 Reassembly instructions!

REMOVAL

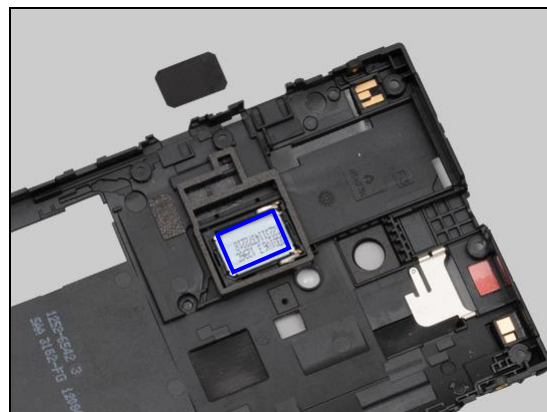
Gently peel off the Sheet Speaker to remove it by using a Flex Film Assembly Tool.

Scrap! Not to be reused!



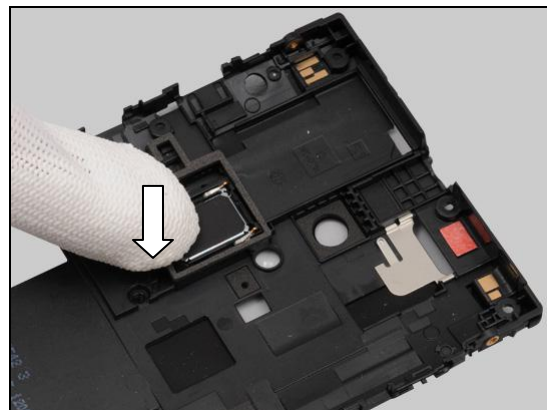
INSTALLATION

Place a new Sheet Speaker on the Loudspeaker as indicated by the blue rectangle.



Press to secure its attachment.

Do not touch the pins!



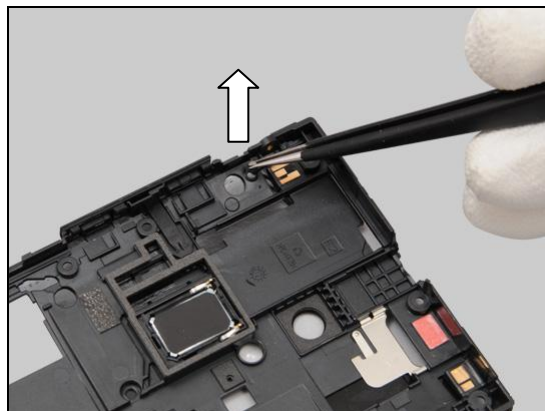
Replacement

4.15 Rubber Conductive GND

Follow the 3.1 – 3.4 Disassembly instructions!
Carry out the Removal as described below.
Prepare a new Rubber Conductive GND.
Carry out the Installation as described below.
Follow the 5.8 – 5.11 Reassembly instructions!

REMOVAL

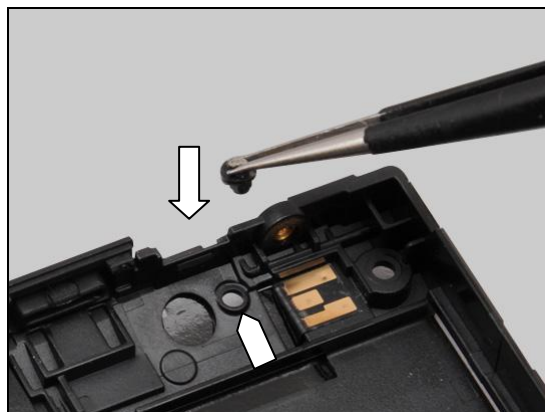
Remove the Rubber Conductive GND by using a pair of Tweezers.



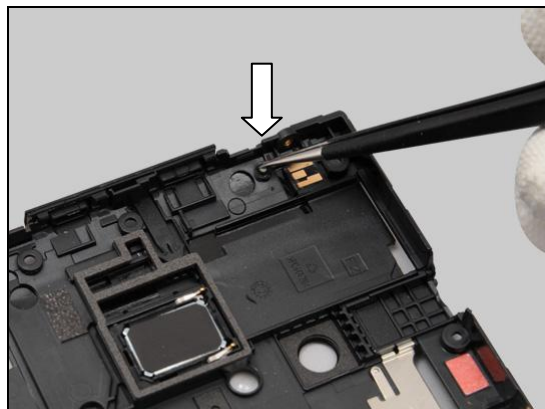
INSTALLATION

Insert a new Rubber Conductive GND in the hole.

Note the orientation of the Rubber Conductive GND to be installed!

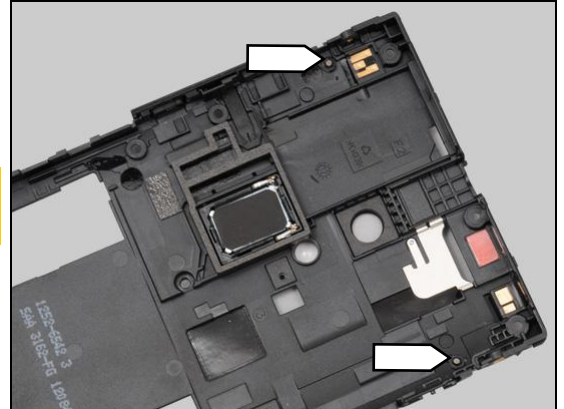


Press to secure its position.



Replacement: Rubber Conductive GND

***There are two Rubber Conductive GNDs.
Do the same to the other if need!***



Replacement

4.16 Water Indicator

Follow the 3.1 – 3.4 Disassembly instructions!
Carry out the Removal as described below.
Prepare a new Water indicator.
Carry out the Installation as described below.
Follow the 5.8 – 5.11 Reassembly instructions!

REMOVAL

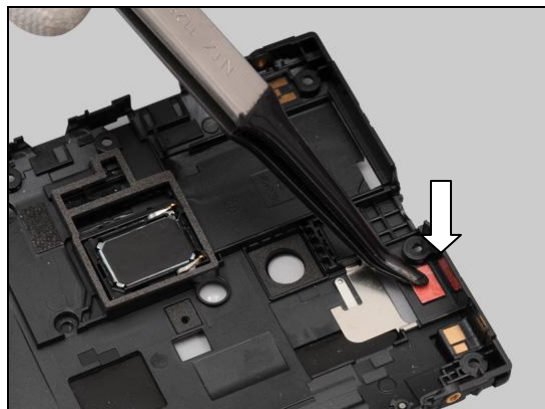
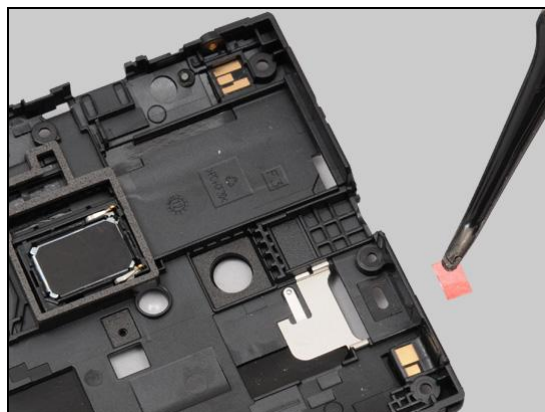
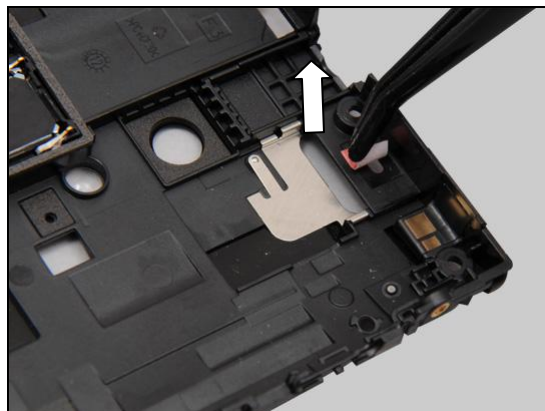
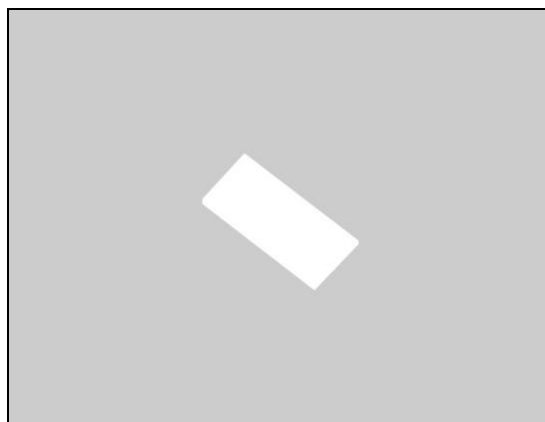
Detach to remove the Water indicator.

Scrap! Not to be reused!

INSTALLATION

Place a new Water indicator on the correct position as indicated by the guide line.

Press to secure its position.



Replacement

4.17 Key Volume

Follow the 3.1 – 3.4 Disassembly instructions!

Prepare a new Key Volume.

Follow the 5.8 – 5.11 Reassembly instructions!



4.18 Audio Jack

Follow the 3.1 – 3.5 Disassembly instructions!

Prepare a new Audio Jack.

Follow the 5.7 – 5.11 Reassembly instructions!



Replacement

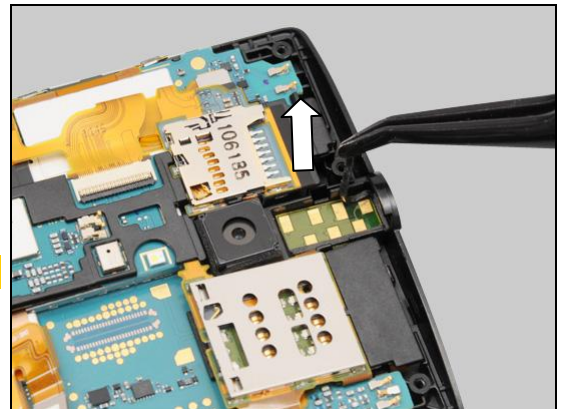
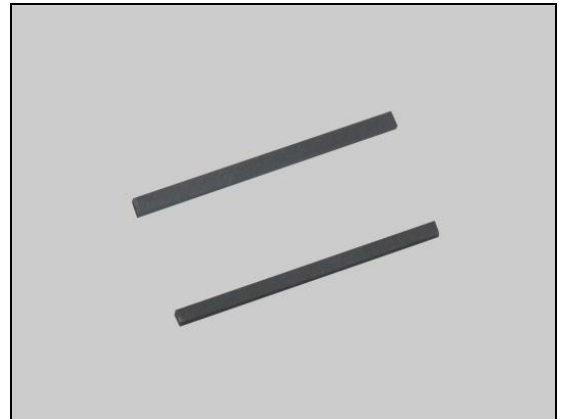
4.19 Gasket Audio Jack

Follow the 3.1 – 3.5 Disassembly instructions!
 Carry out the Removal as described below.
 Prepare a new Gasket Audio Jack.
 Carry out the Installation as described below.
Follow the 5.7 – 5.11 Reassembly instructions!

REMOVAL

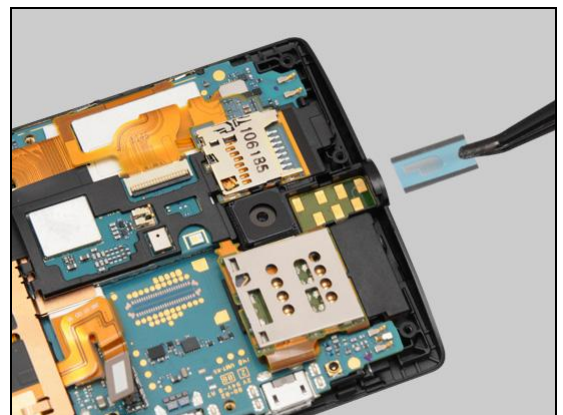
Detach to remove the Gasket Audio Jack.

Scrap! Not to be reused!

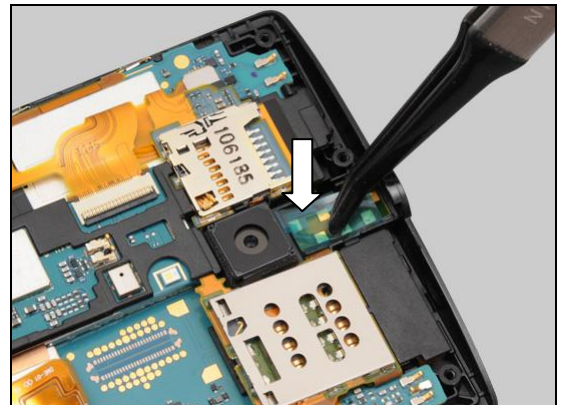


INSTALLATION

Attach a new Gasket Audio Jack in the cavity as shown.

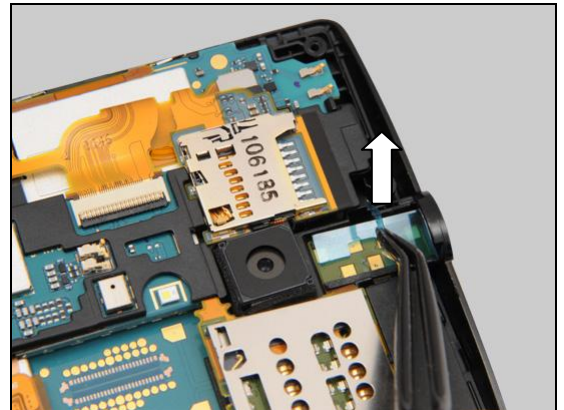


Press to secure its position.



Replacement: Gasket Audio Jack

Peel off the protective film.



Replacement

4.20 FPC Side Key

Follow the 3.1 – 3.6 Disassembly instructions!
 Carry out the Removal as described below.
 Prepare a new FPC Side Key.
 Carry out the Installation as described below.
Follow the 5.6 – 5.11 Reassembly instructions!

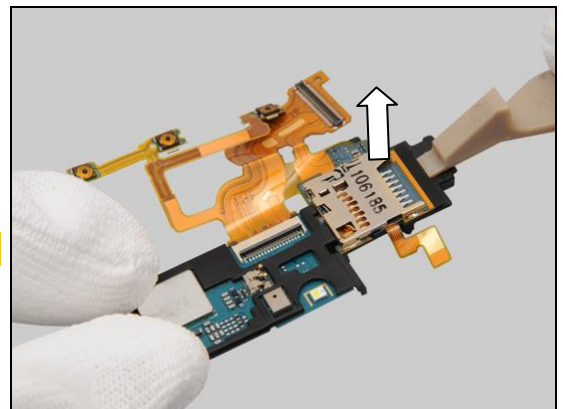
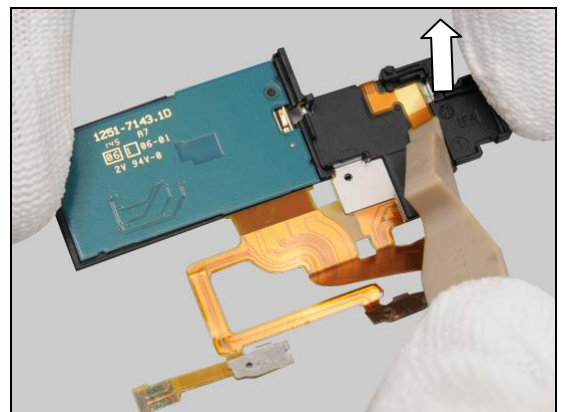
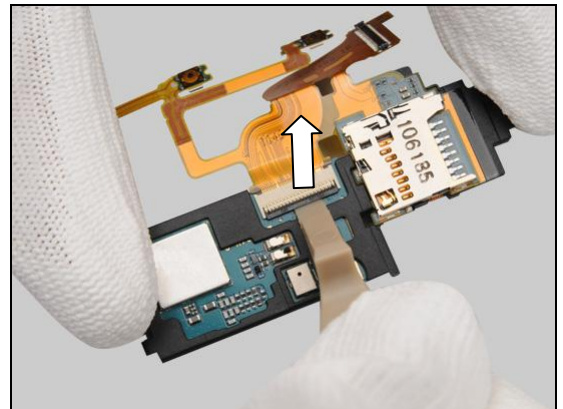
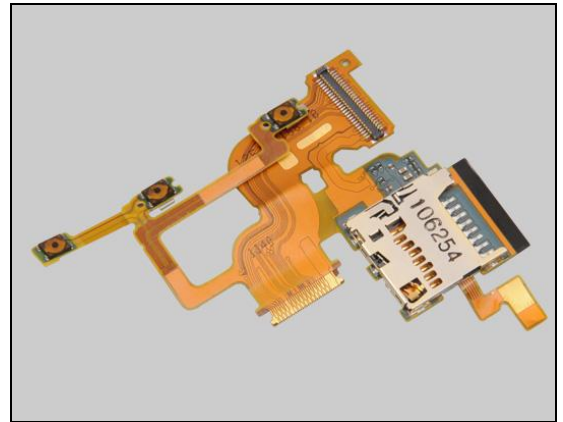
REMOVAL

Unlock the ZIF connector.

Turn it over and gently detach the FPC of this side as shown.

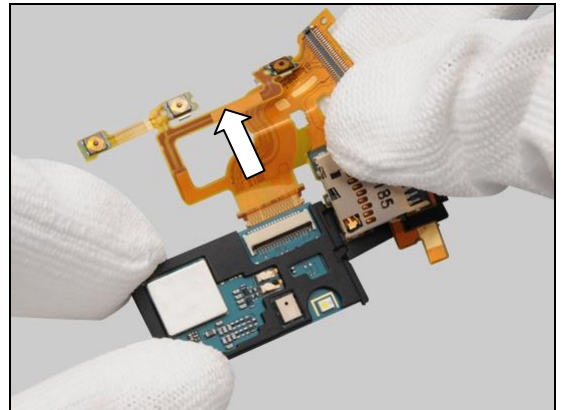
Gently insert the Front Opening Tool as shown to release this side.

Scrap! Not to be reused!



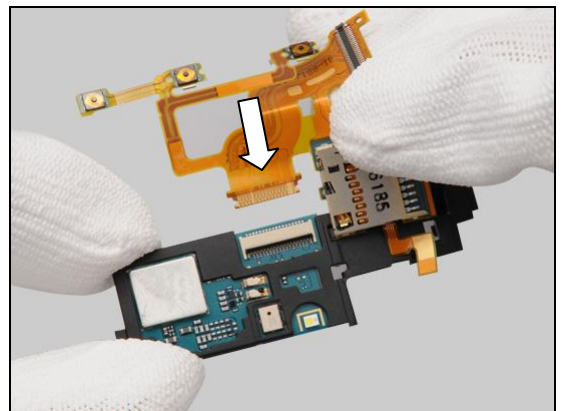
Replacement: FPC Side Key

Remove it.

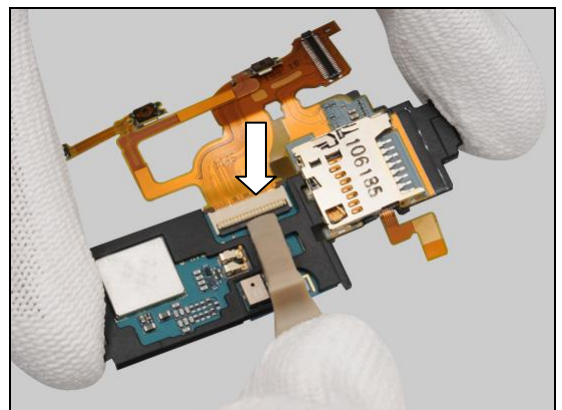


INSTALLATION

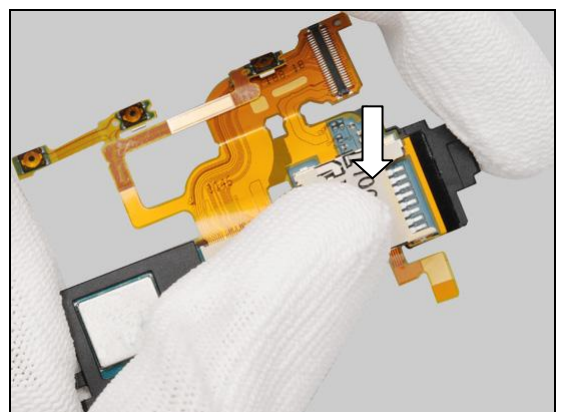
Insert a new FPC Side Key into the ZIF connector.



Lock it.

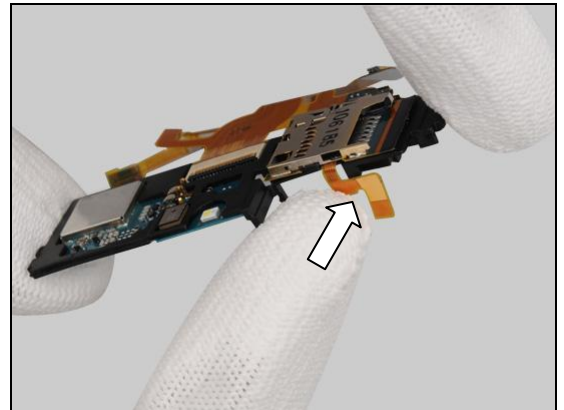


Press along to secure its position and attachment.

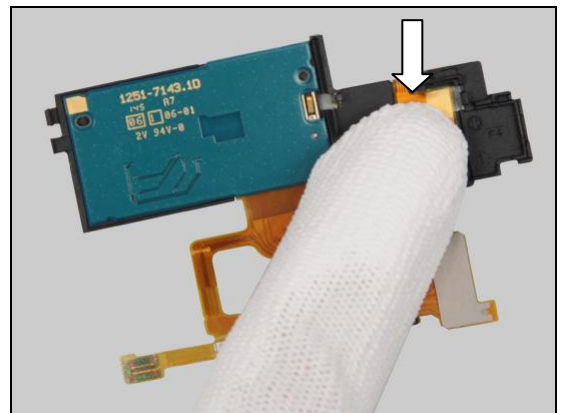


Replacement: FPC Side Key

Push the FPC to turn it over.



Press to make it securely attached.



Replacement

4.21 Carrier NFC Sub PBA

Follow the 3.1 – 3.6 Disassembly instructions!

Follow the 4.20 Removal instructions!

Carry out the Removal as described below.

Prepare a new Carrier NFC Sub PBA.

Carry out the Installation as described below.

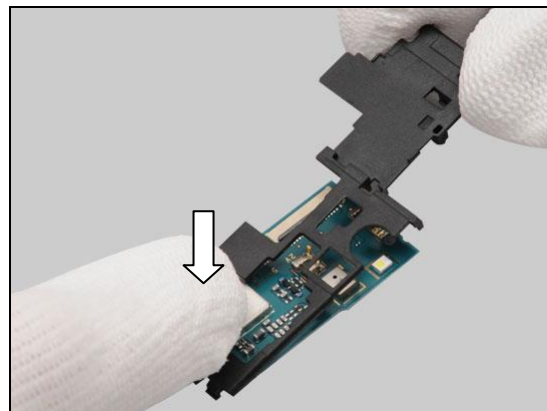
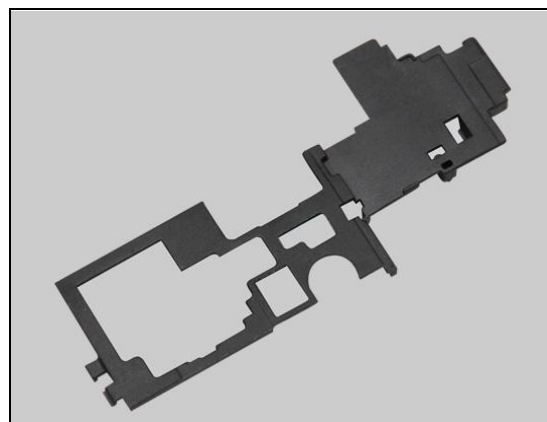
Follow the 4.20 Installation instructions!

Follow the 5.6 – 5.11 Reassembly instructions!

REMOVAL

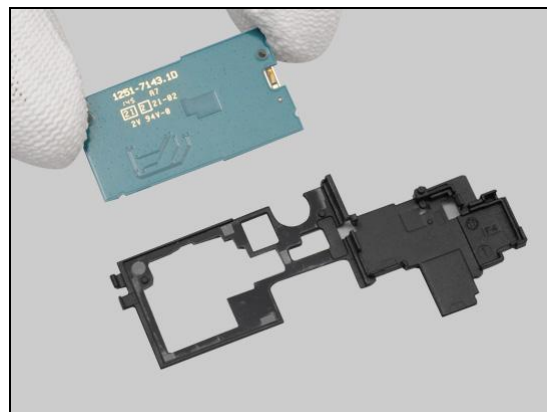
Push the shield can as shown in picture to release the PBA Sub NFC Assy from the Carrier NFC Sub PBA.

Scrap! Not to be reused!

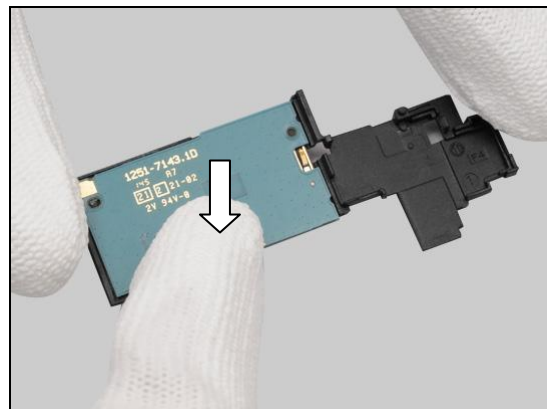


INSTALLATION

Prepare a new Carrier NFC Sub PBA and securely place the PBA Sub NFC Assy on it.



Press along to secure its attachment.



Replacement

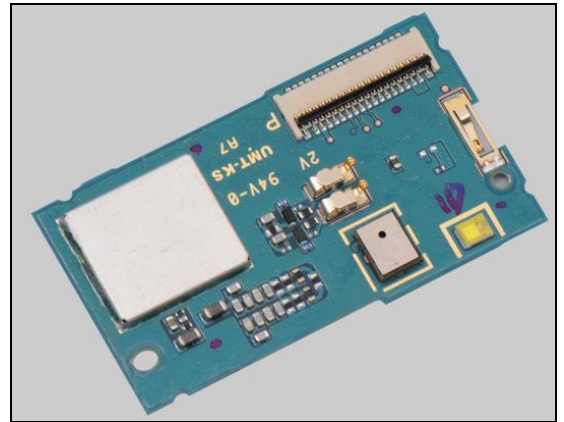
4.22 PBA Sub NFC Assy

Follow the 3.1 – 3.6 Disassembly instructions!

Prepare a new PBA Sub NFC Assy.

Follow the 4.21 and 4.20 Installation instructions!

Follow the 5.6 – 5.11 Reassembly instructions!



Replacement

4.23 Camera & Gasket Camera

Follow the 3.1 – 3.5 Disassembly instructions!

Carry out the Removal as described below.

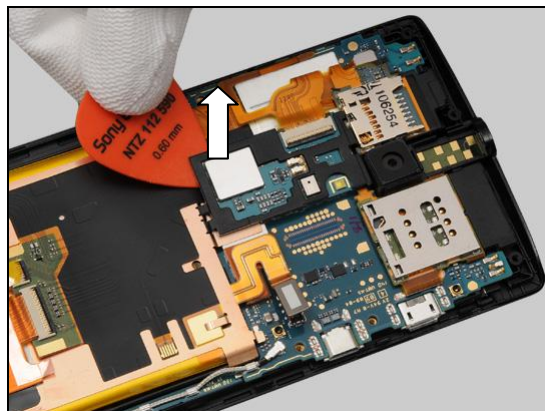
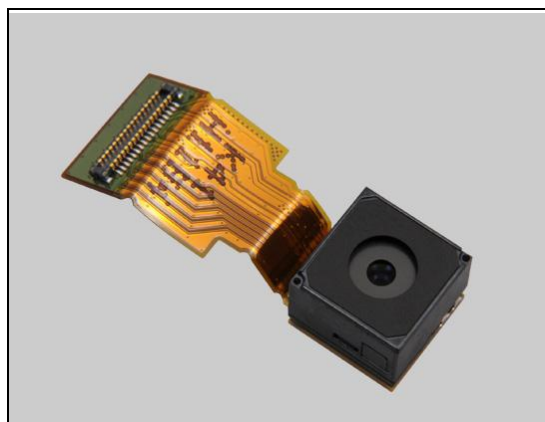
Prepare a new Camera and a new Gasket Camera.

Carry out the Installation as described below.

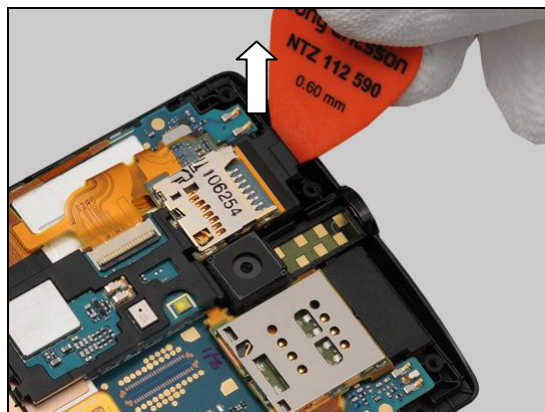
Follow the 5.7 – 5.11 Reassembly instructions!

REMOVAL

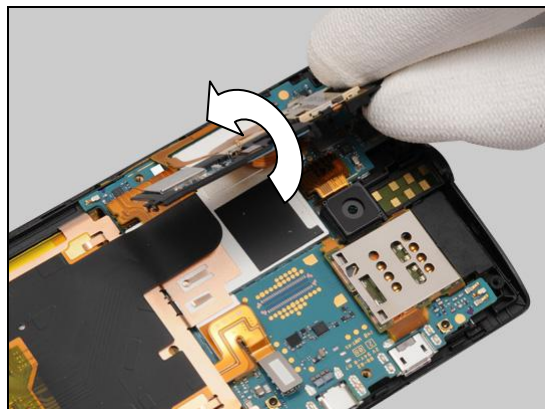
Insert a Guitar Pick and gently pull upwards to release the hooks of the Carrier NFC Assy.



Do the same to release the hook of this side.

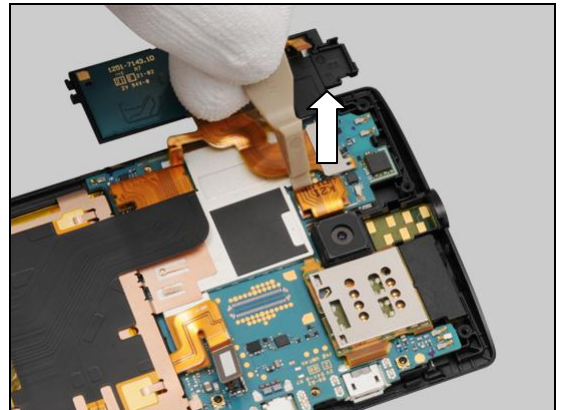


Turn it over.

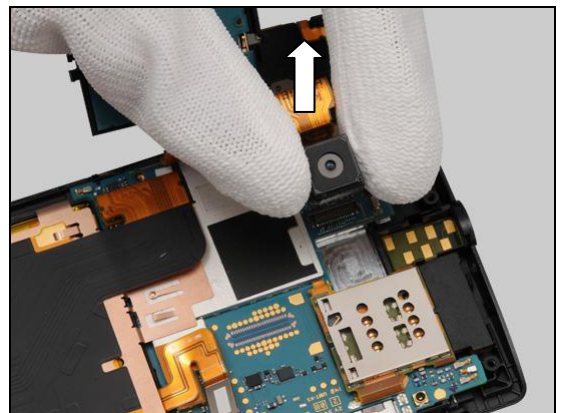


Replacement: Camera & Gasket Camera

Unsnap the BtB connector of the Camera.

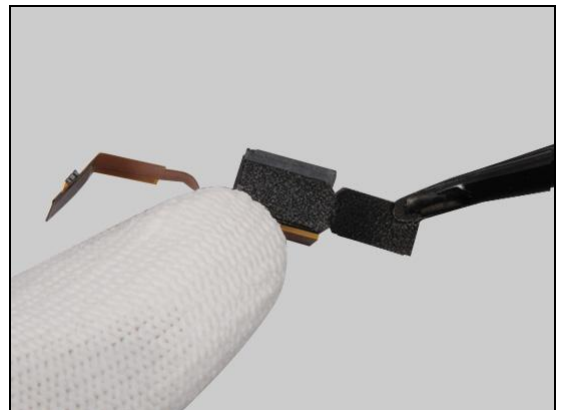


Remove the Camera.



INSTALLATION

Attach a new Gasket Camera on a new Camera as shown.

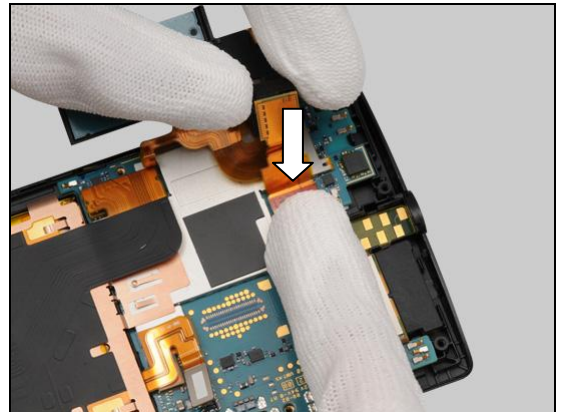


Press to secure its attachment and position.

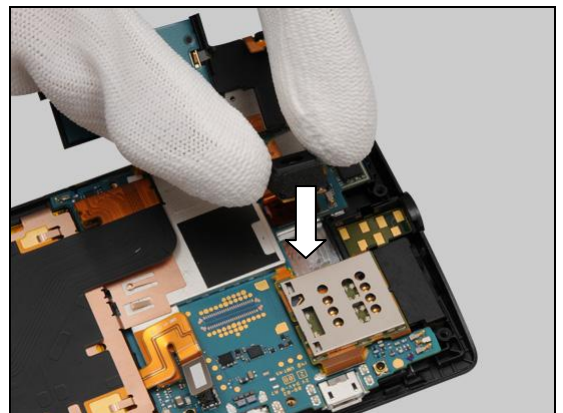


Replacement: Camera & Gasket Camera

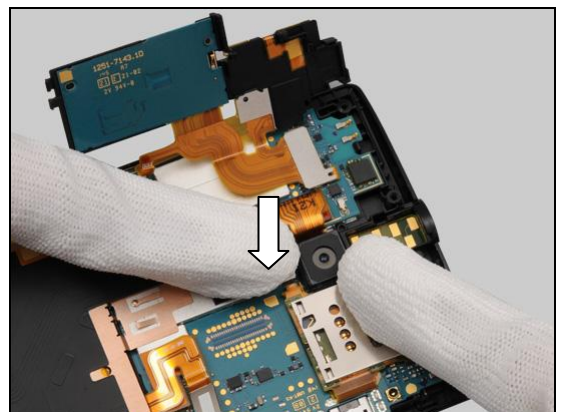
Press to snap the BtB connector.



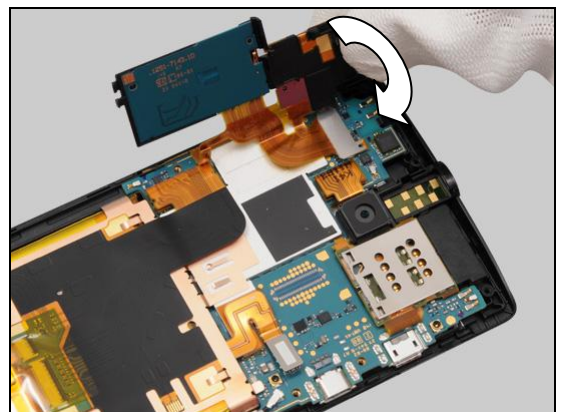
Gently push it into the cavity.



Press to secure its position.

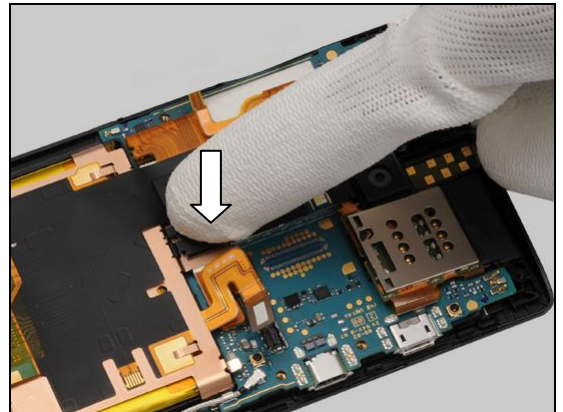


Turn it over.

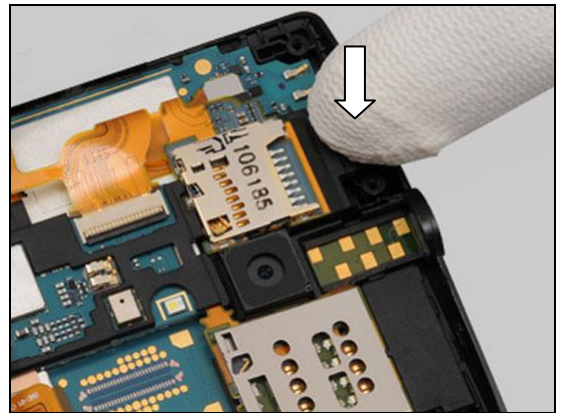


Replacement: Camera & Gasket Camera

Press this side to insert the hooks into the holes.



Press to snap the hook of this side.



Replacement

4.24 FPC Top Flex

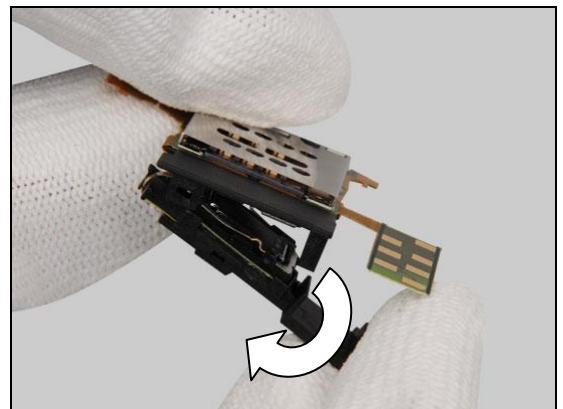
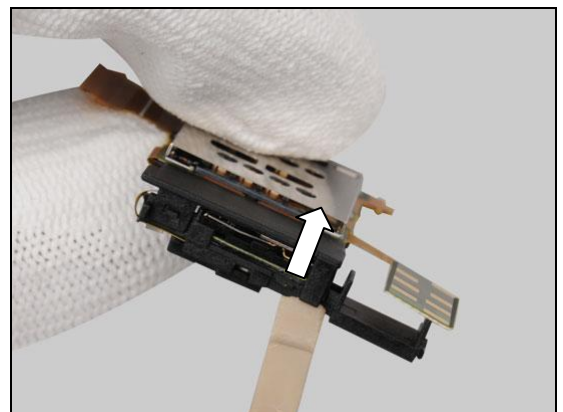
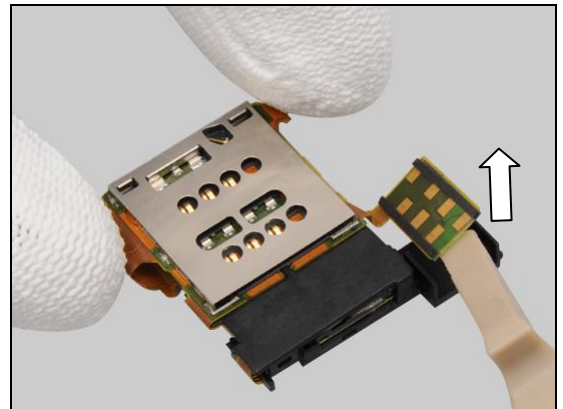
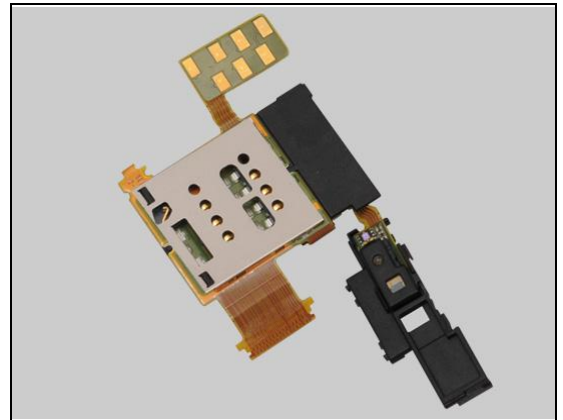
Follow the 3.1 – 3.8 Disassembly instructions!
 Carry out the Removal as described below.
 Prepare a new FPC Top Flex.
 Carry out the Installation as described below.
Follow the 5.4 – 5.6 Reassembly instructions!
Follow the 4.19 Installation instructions!
Follow the 5.7 – 5.11 Reassembly instructions!

REMOVAL

Release this side of the FPC Top Flex from the cavity by using a Front Opening Tool.

Unsnap the hook of the FPC Top Flex as shown.

Turn it over.



Replacement: FPC Top Flex

Gently release the Ear Speaker from the cavity and remove it.

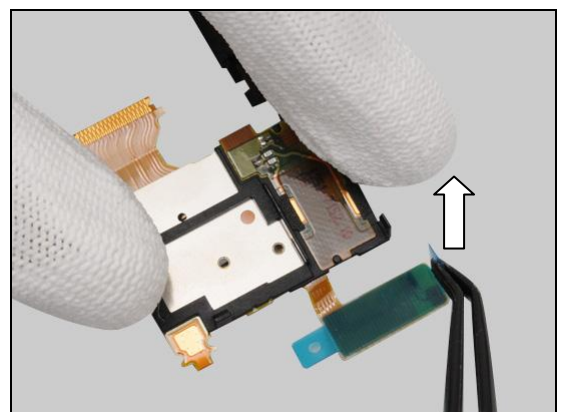
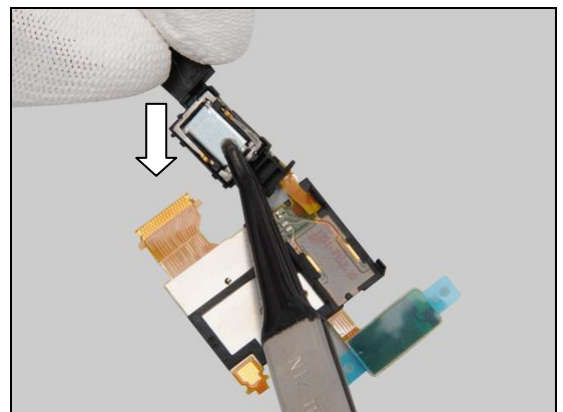
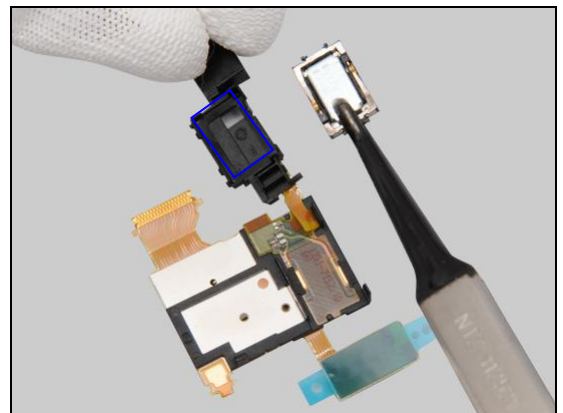
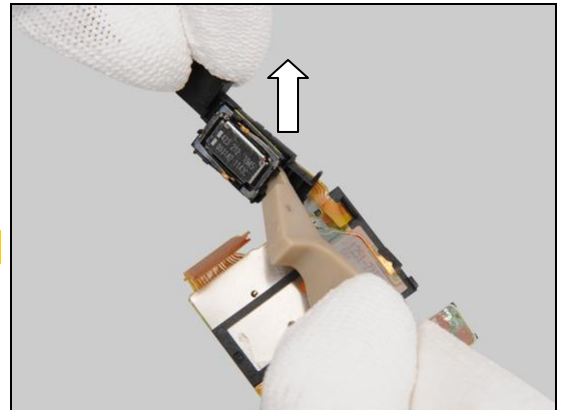
Scrap the FPC Top Flex! Not to be reused!

INSTALLATION

Prepare a new FPC Top Flex and place the Ear Speaker into the cavity.

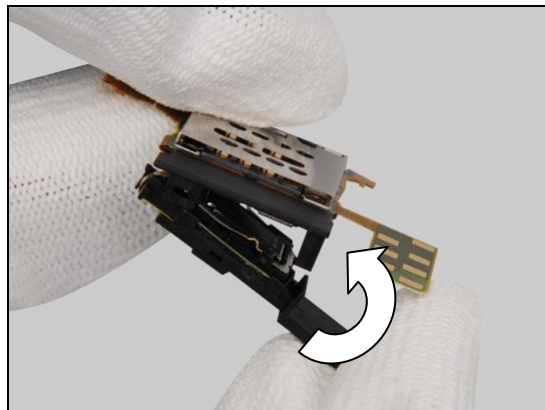
Press to secure its position.

Peel off the protective film.

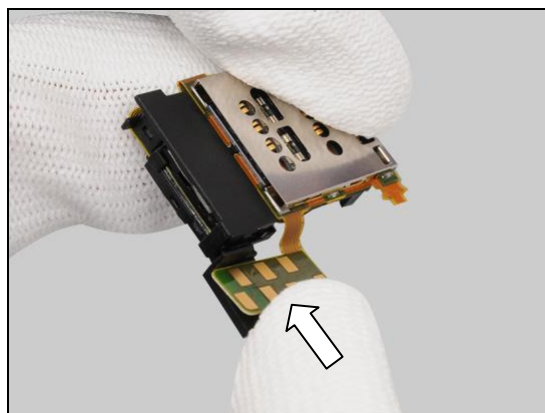


Replacement: FPC Top Flex

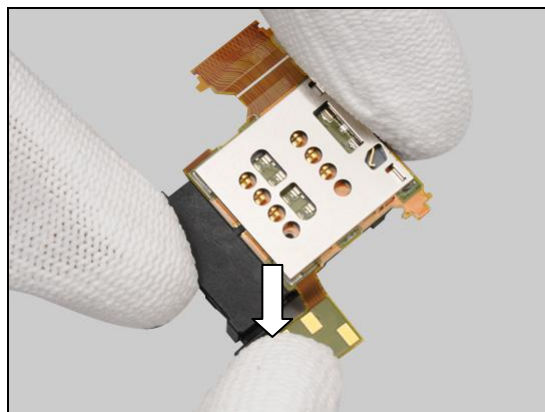
Turn it over.



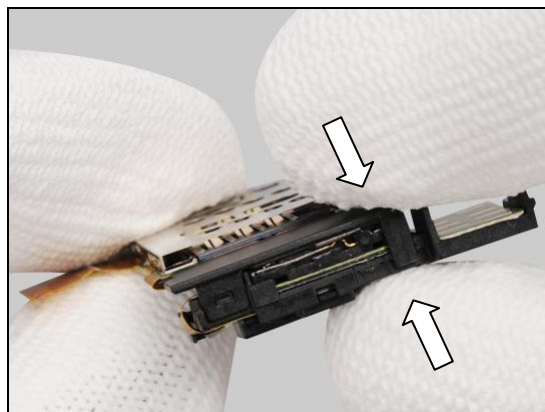
Push the FPC into the cavity.



Press along to secure its attachment.



Press to snap the hook.



Replacement

4.25 Ear Speaker

Follow the 3.1 – 3.8 Disassembly instructions!

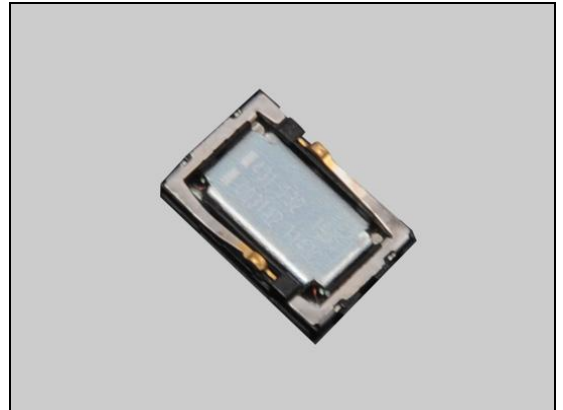
Prepare a new Ear Speaker.

Follow the 4.24 Installation instructions!

Follow the 5.4 – 5.6 Reassembly instructions!

Follow the 4.19 Installation instructions!

Follow the 5.7 – 5.11 Reassembly instructions!



Replacement

4.26 Rubber Mic

Follow the 3.1 – 3.4 Disassembly instructions!

Carry out the Removal as described below.

Prepare a new Rubber Mic.

Carry out the Installation as described below.

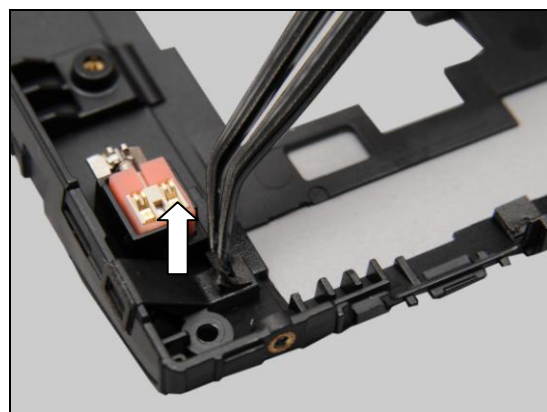
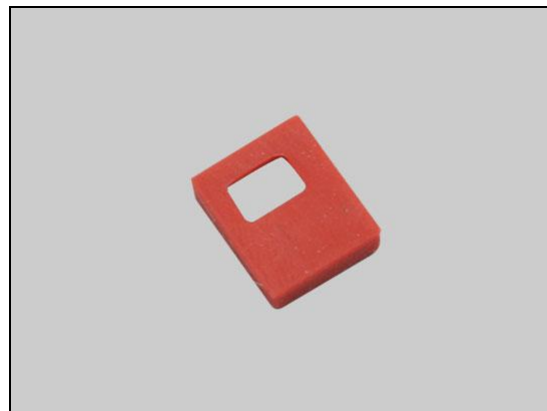
Follow the 5.8 – 5.11 Reassembly instructions!

REMOVAL

Detach to remove the gasket Mic on the Frame Rear Cover as shown in picture by using a Flex Film Assembly Tool.

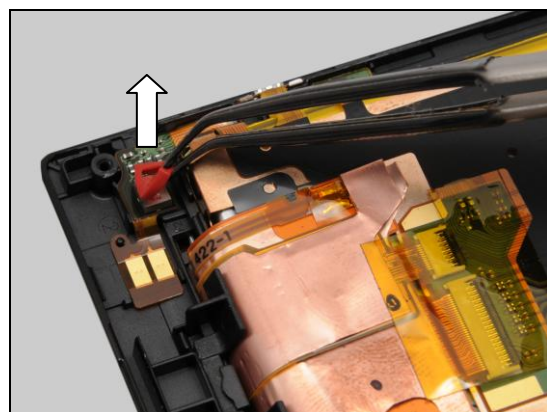
The gasket Mic must be removed!

If no gasket Mic attached on the Frame Rear Cover, skip this step!



Detach to remove the Rubber Mic by using a Flex Film Assembly Tool.

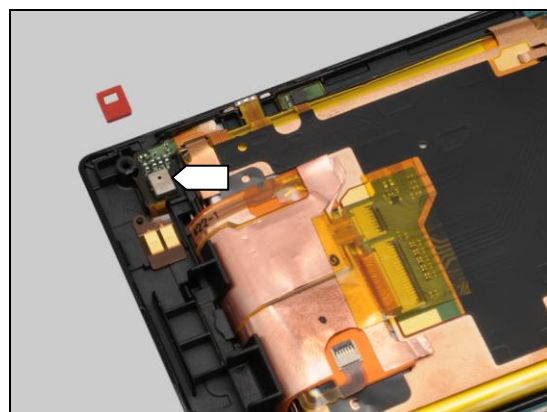
If no Rubber Mic attached on the microphone, skip this step!



INSTALLATION

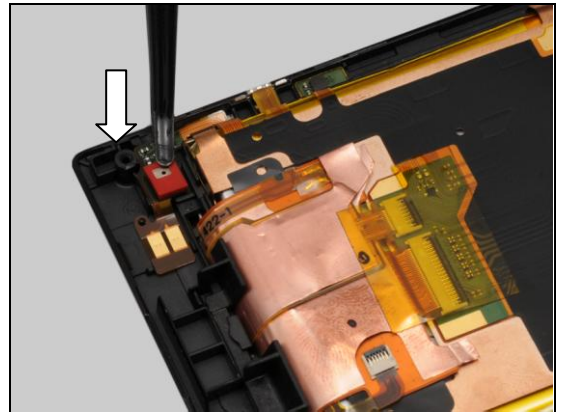
Place a new Rubber Mic on the microphone.

Note the orientation of the Rubber Mic to be installed!



Replacement: Rubber Mic

Press to secure its position.



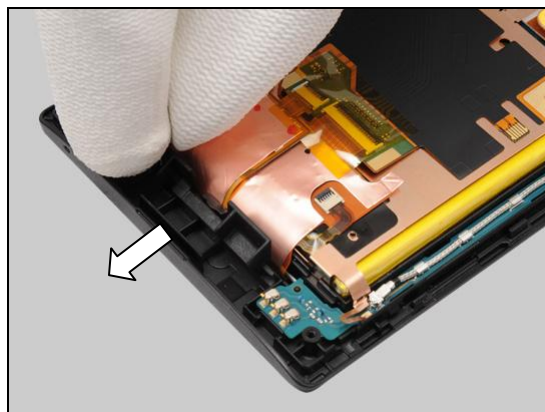
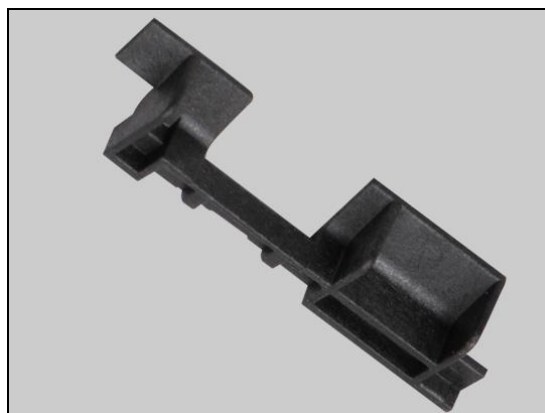
Replacement

4.27 Carrier Holder Bottom

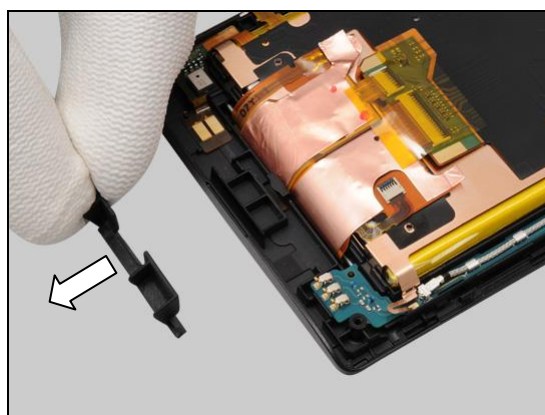
Follow the 3.1 – 3.4 Disassembly instructions!
Carry out the Removal as described below.
Prepare a new Carrier Holder Bottom.
Carry out the Installation as described below.
Follow the 5.8 – 5.11 Reassembly instructions!

REMOVAL

Pull outward to release the Carrier Holder Bottom from the hook of this side as shown.

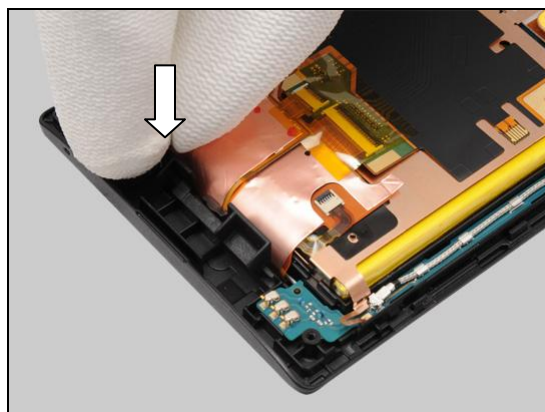


Remove the Carrier Holder Bottom.



INSTALLATION

Insert a new Carrier Holder Bottom into its cavity as shown and secure its position.



Replacement

4.28 Sheet Touch ZIF

Follow the 3.1 – 3.4 Disassembly instructions!

Carry out the Removal as described below.

Prepare a new Sheet Touch ZIF.

Carry out the Installation as described below.

Follow the 5.8 – 5.11 Reassembly instructions!

REMOVAL

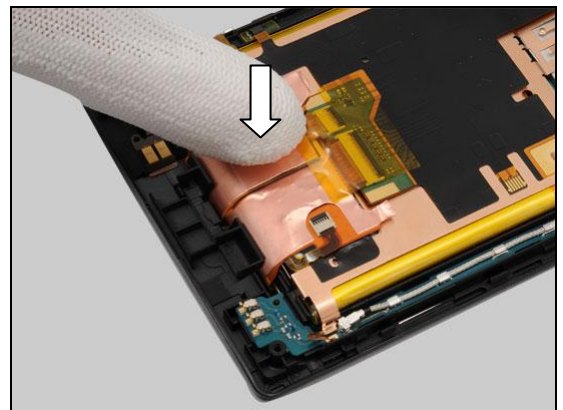
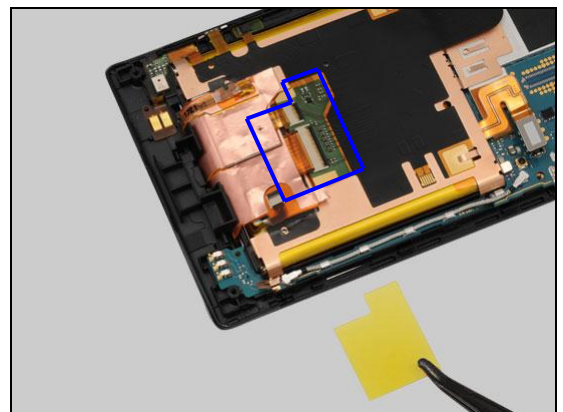
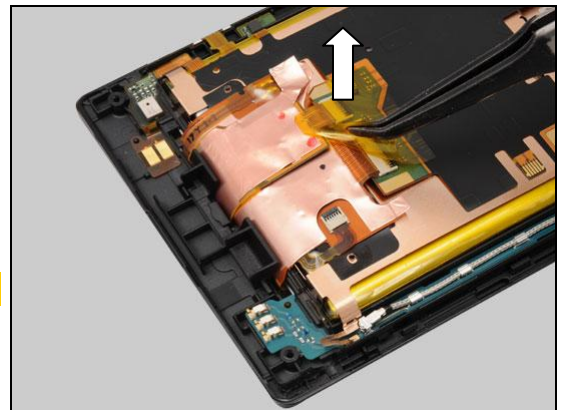
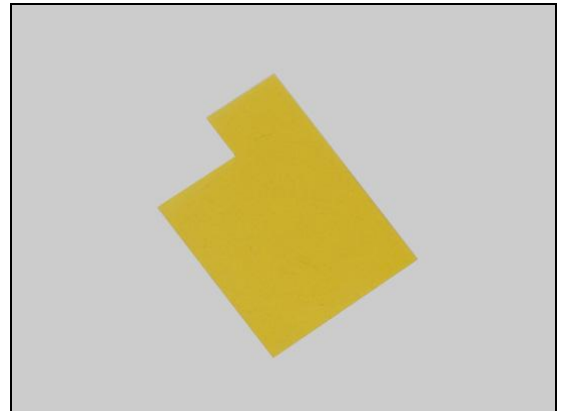
Gently peel off the Sheet Touch ZIF and remove it by using a Flex Film Assembly Tool.

Scrap! Not to be reused!

INSTALLATION

Place a new Sheet Touch ZIF on its correct position as indicated by the blue line.

Press along to secure its attachment.



Replacement

4.29 Sheet LCM FPC

Follow the 3.1 – 3.4 Disassembly instructions!

Follow the 4.27 and 4.28 Removal instructions!

Carry out the Removal as described below.

Prepare a new Sheet LCM FPC.

Carry out the Installation as described below.

Follow the 4.27 and 4.28 Installation instructions!

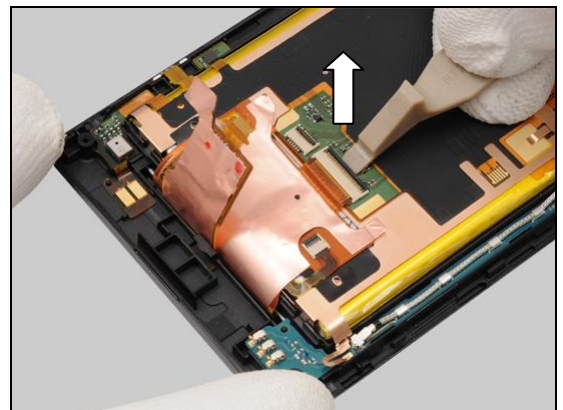
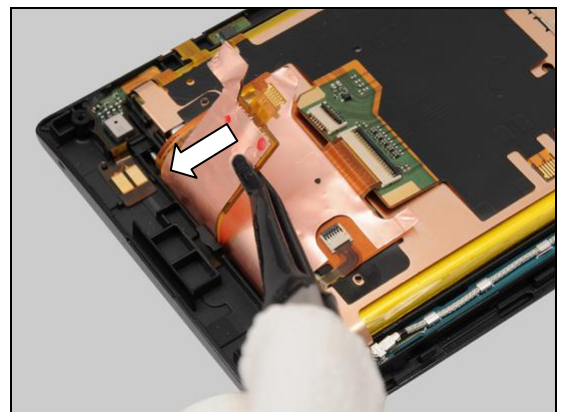
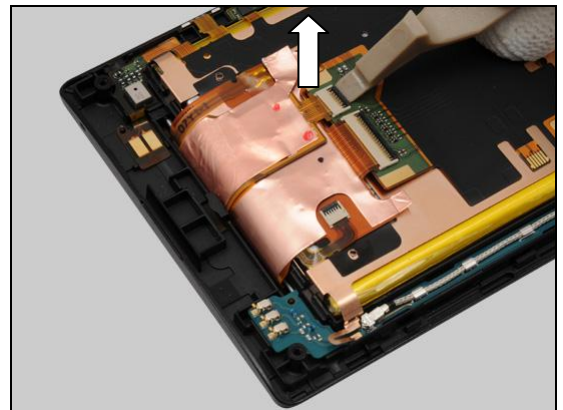
Follow the 5.8 – 5.11 Reassembly instructions!

REMOVAL

Unlock the ZIF connector by using a Front Opening Tool.

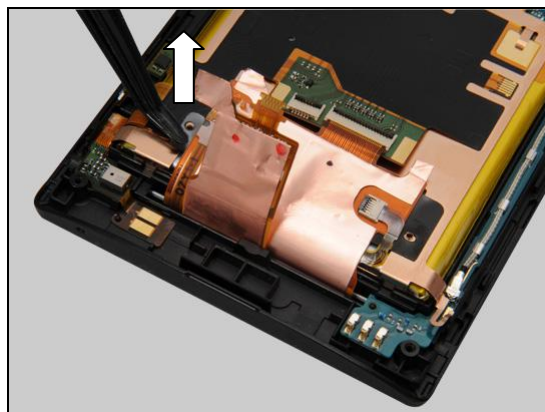
Release the touch screen FPC by using a Flex Film Assembly Tool.

Unlock the ZIF connector as shown.

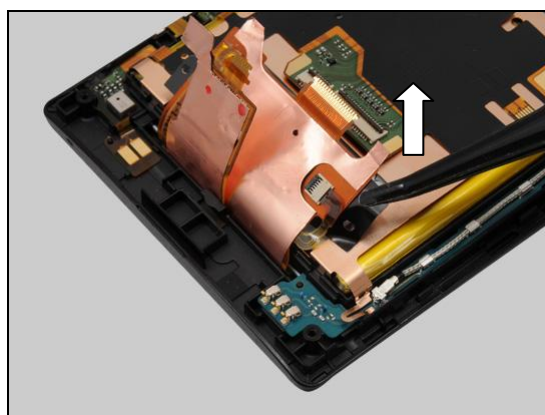


Replacement: Sheet LCM FPC

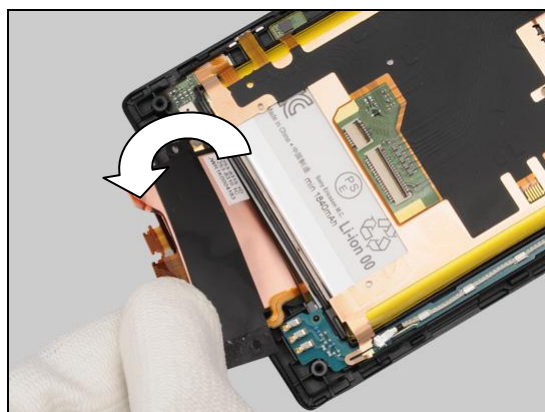
Gently detach this side of the Sheet LCM FPC from the Sheet Metal Battery Plate as shown.



Do the same to the other side.



Turn it over.



Gently peel off the Sheet LCM FPC by using a Flex Film Assembly Tool.

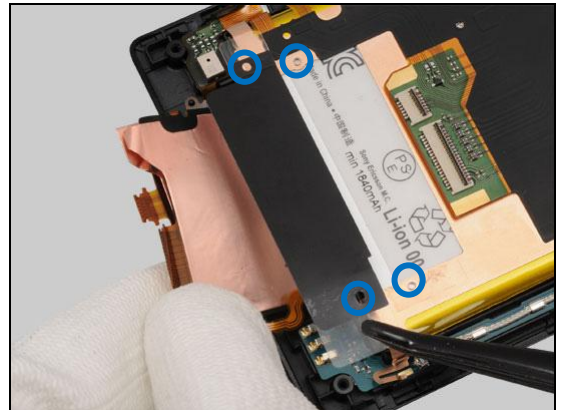
Scrap! Not to be reused!



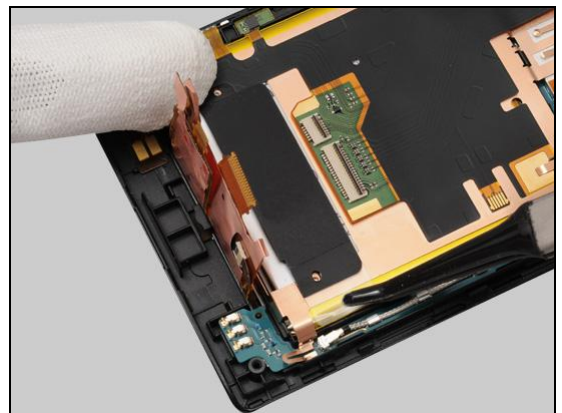
Replacement: Sheet LCM FPC

INSTALLATION

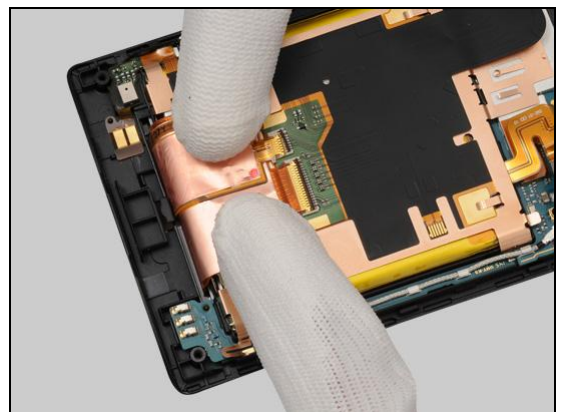
Prepare a new Sheet LCM FPC and align it as indicated by the holes.



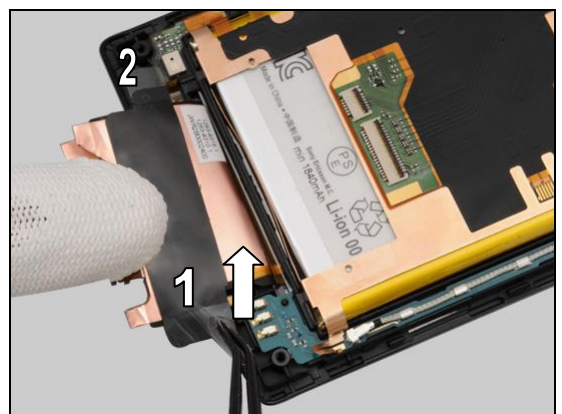
Securely place the Sheet LCM FPC on the Sheet Metal Battery Plate.



Press to secure its attachment.

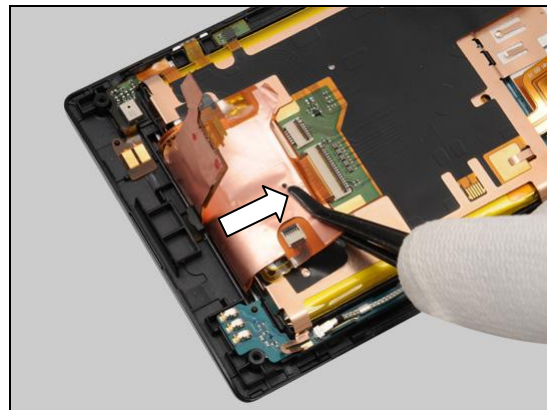


Peel off the two protective films.

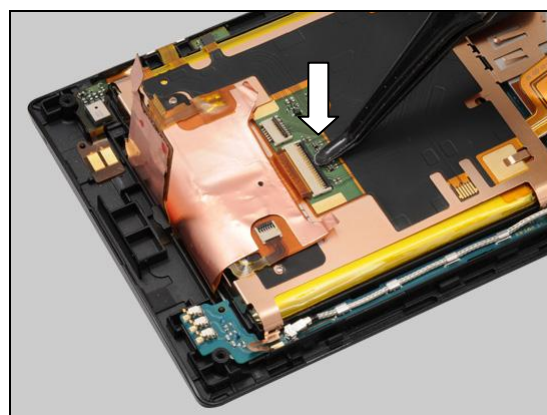


Replacement: Sheet LCM FPC

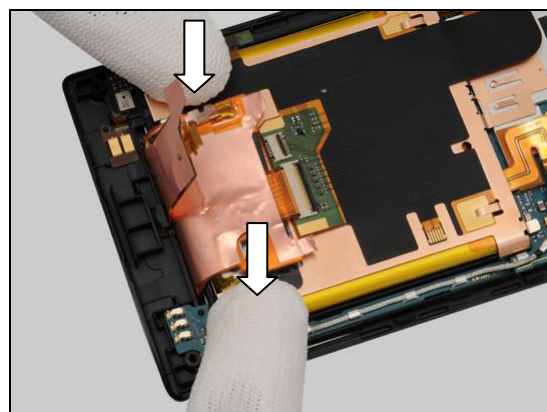
Insert the LCD FPC into the ZIF connector.



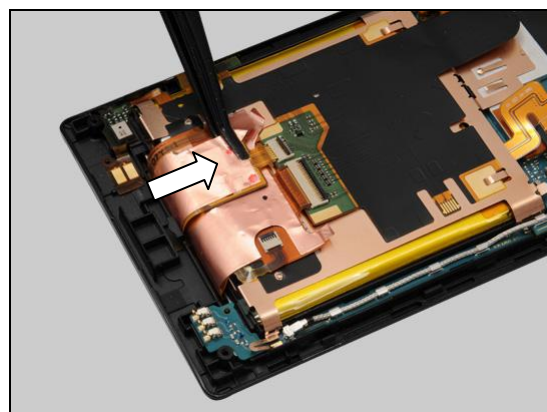
Lock it.



Press along the two sides of the Sheet LCM FPC to secure its attachment.

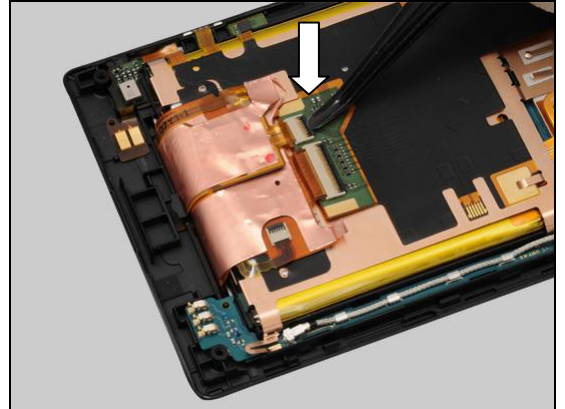


Insert the touch panel FPC into the ZIF connector.



Replacement: Sheet LCM FPC

Lock it.



Replacement

4.30 FPC Bottom Flex & Sheet Metal Battery Plate

Follow the 3.1 – 3.6 Disassembly instructions!

Follow the 4.28 and 4.29 Removal instructions!

Carry out the Removal as described below.

Prepare a new FPC Bottom Flex and a new Sheet Metal Battery Plate.

Carry out the Installation as described below.

Follow the 4.29 and 4.28 Installation instructions!

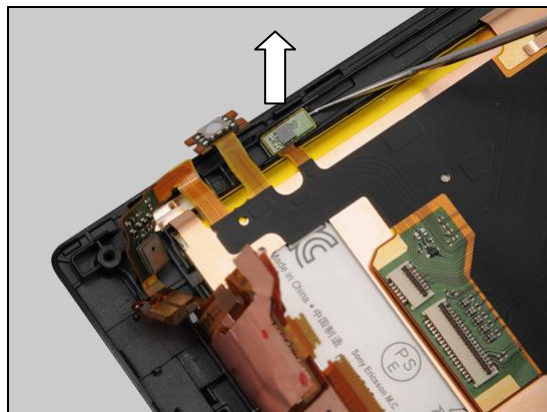
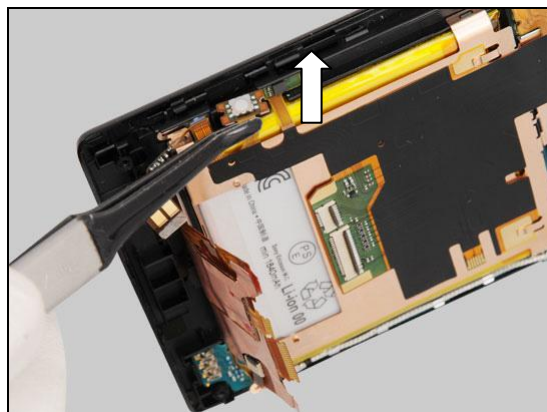
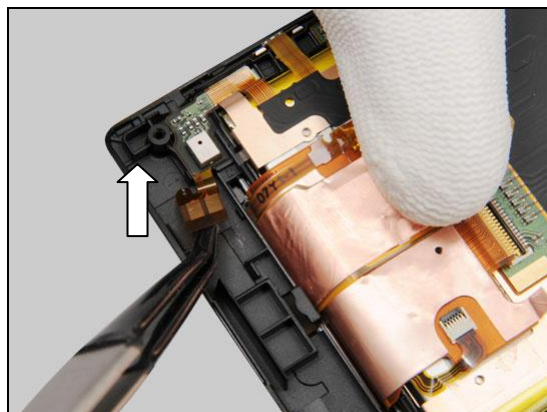
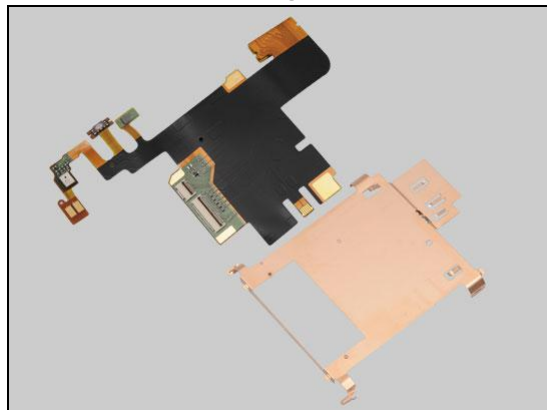
Follow the 5.6 – 5.11 Reassembly instructions!

REMOVAL

Gently detach the FPC by using a Flex Film Assembly Tool as shown in picture.

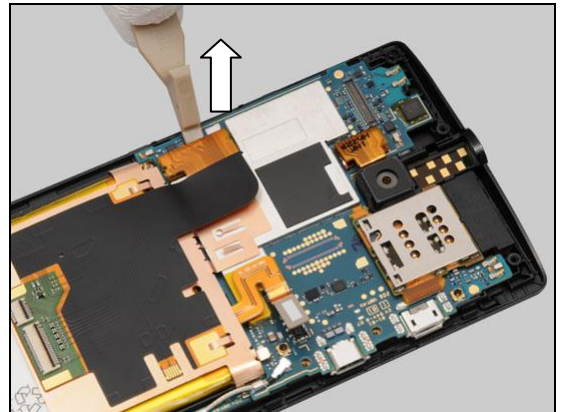
Use a Flex Film Assembly Tool to release the camera switch as shown.

Carefully insert a Dentist Hook as shown in picture to release the FPC from the cavity.

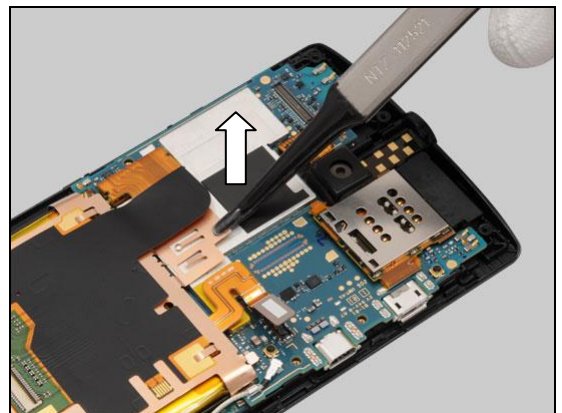


Replacement: FPC Bottom Flex & Sheet Metal Battery Plate

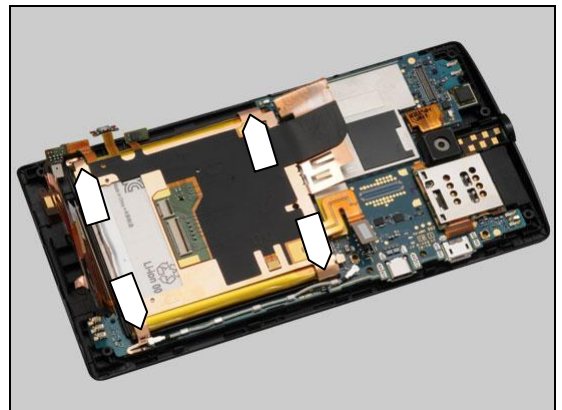
Unsnap the BtB connector.



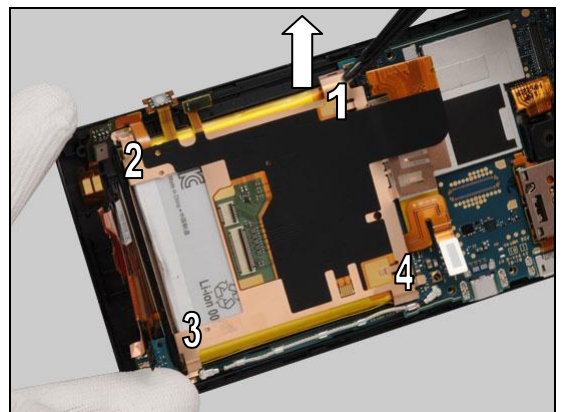
Gently detach the Sheet Metal Battery Plate from the shield can.



There are four snap hooks securing the Sheet Metal Battery Plate



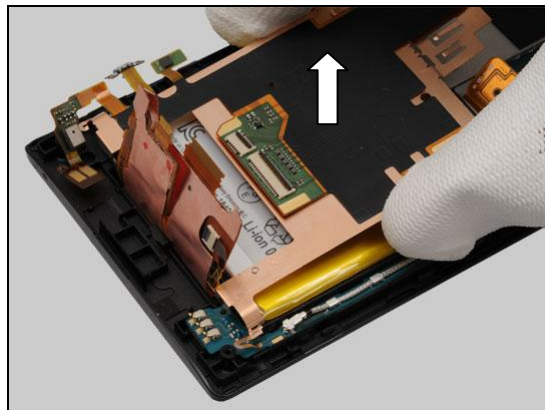
Gently lift up to release the four hooks of the Sheet Metal Battery Plate.



Replacement: FPC Bottom Flex & Sheet Metal Battery Plate

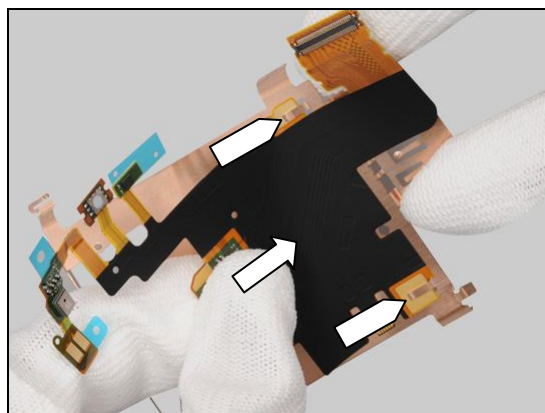
Remove the Sheet Metal Battery Plate with fingers.

Scrap! Not to be reused!

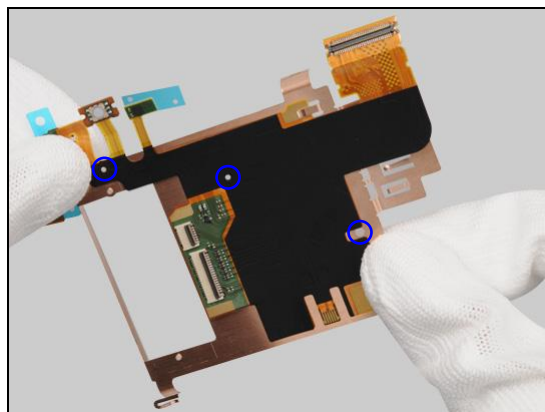


INSTALLATION

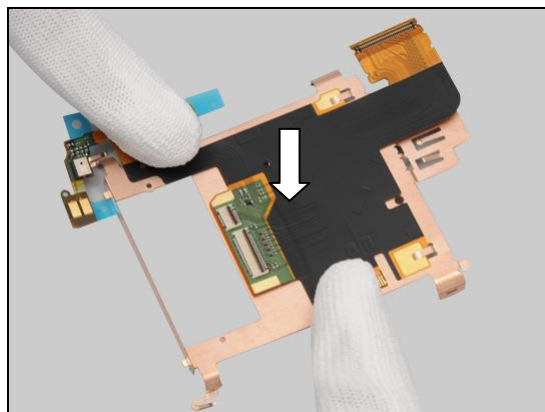
Insert the two sides into the clip as indicated by the pointers.



Securely attached the FPC Bottom Flex on its position as indicated by the holes.

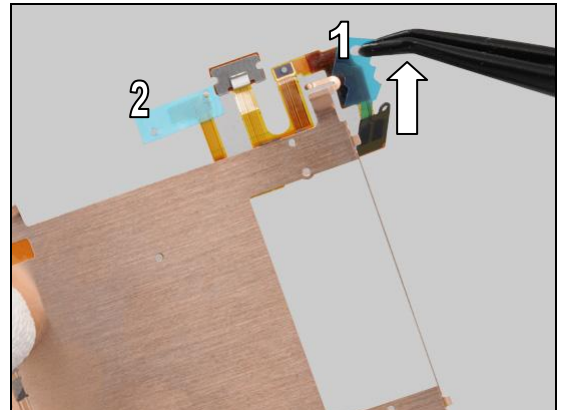


Press along to secure its attachment and position.

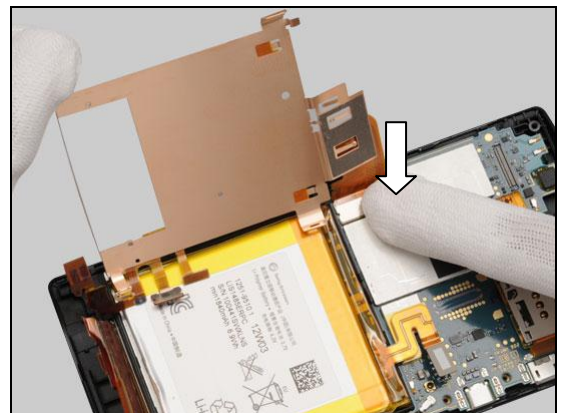


Replacement: FPC Bottom Flex & Sheet Metal Battery Plate

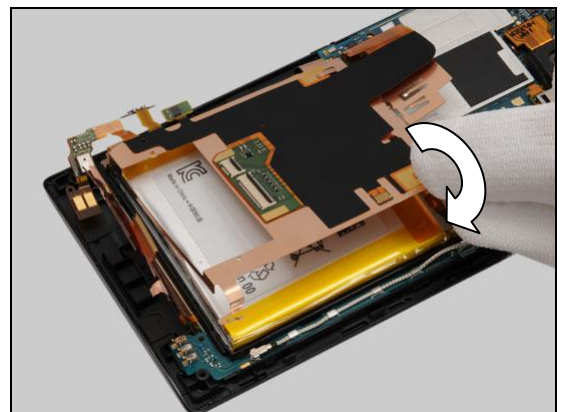
Peel off the two protective films.



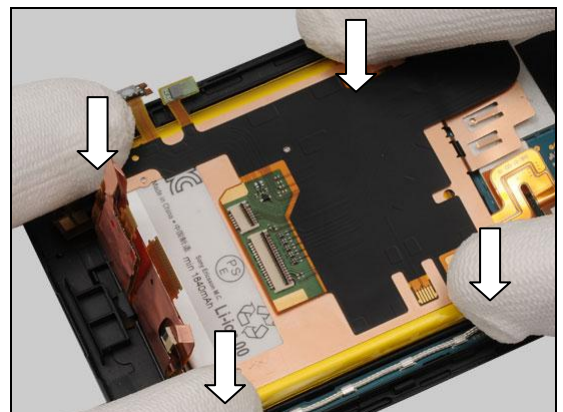
Snap the BtB connector.



Turn it over.

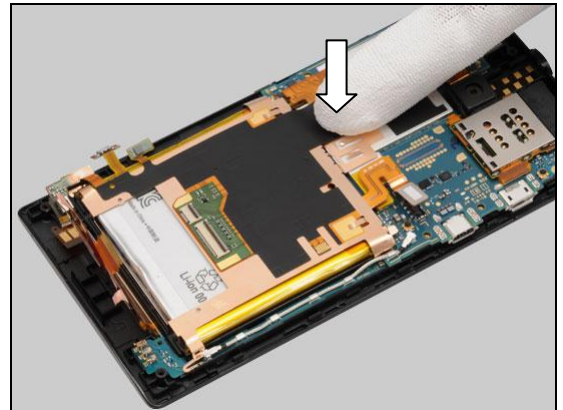


Press to snap the hooks.

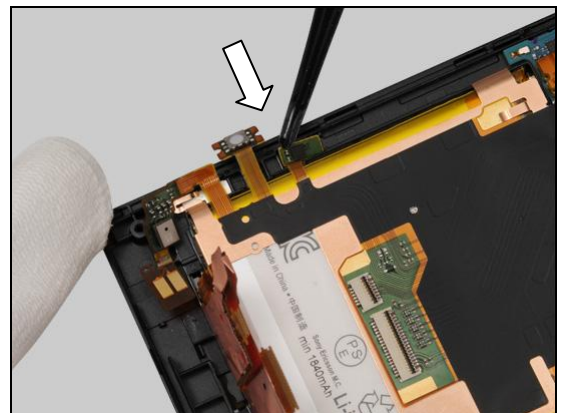


Replacement: FPC Bottom Flex & Sheet Metal Battery Plate

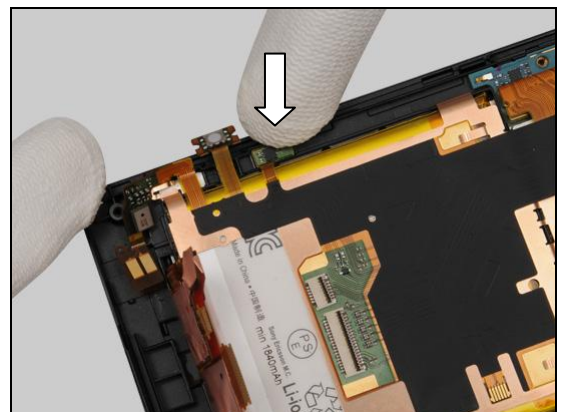
Press along to secure its attachment.



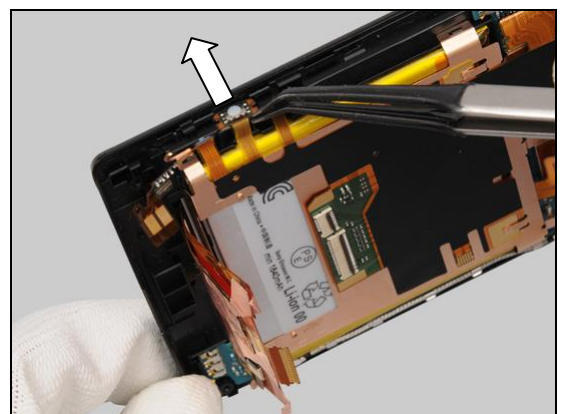
Push the FPC into the cavity by using a Flex Film Assembly Tool.



Press to secure its position.



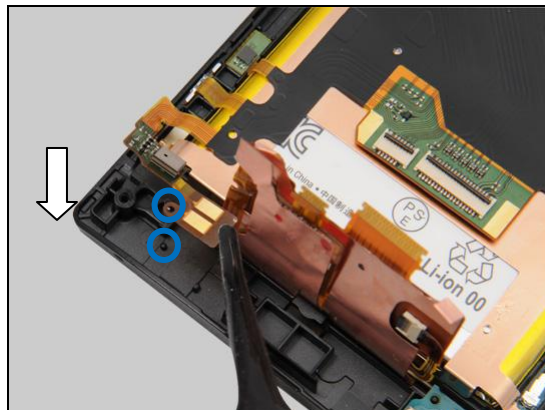
Push the switch into the cavity as shown in picture.



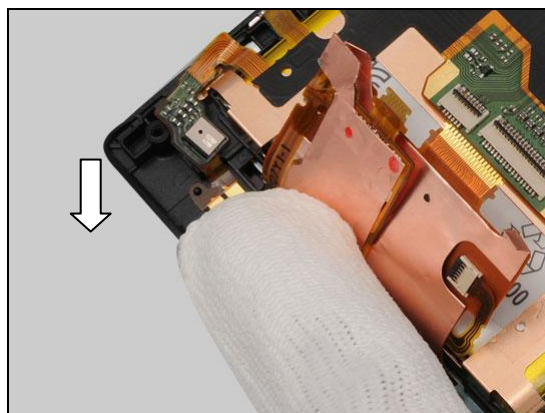
Replacement: FPC Bottom Flex & Sheet Metal Battery Plate

Securely place the FPC on its proper position as indicated by the peg and hole.

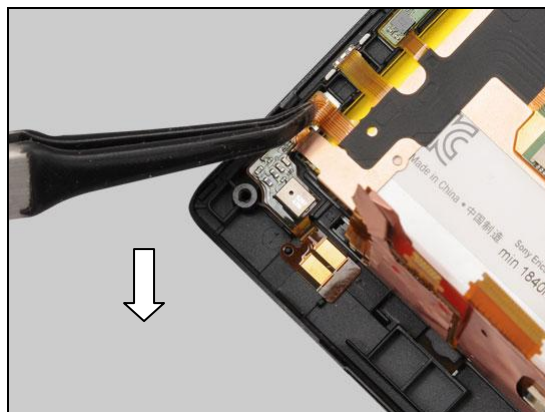
Do not touch the pads on the FPC!



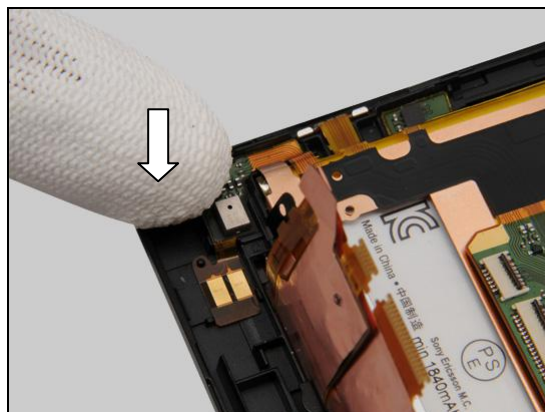
Press to secure its attachment.



Gently push the FPC into the cavity by using a Flex Film Assembly Tool.



Press along to secure its position.



Replacement

4.31 Liquid Indicator

Follow the 3.1 – 3.11 Disassembly instructions!

Carry out the Removal as described below.

Prepare a new Liquid Indicator.

Carry out the Installation as described below.

Follow the 5.1 – 5.11 Reassembly instructions!

REMOVAL

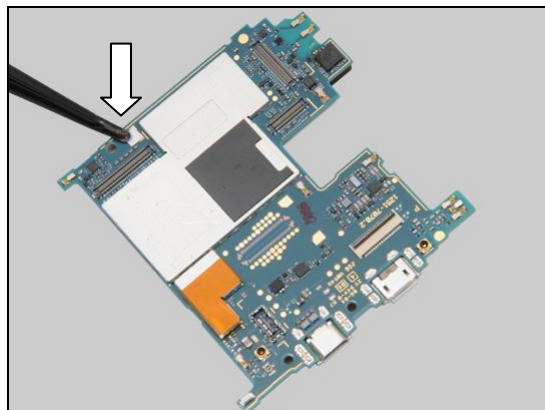
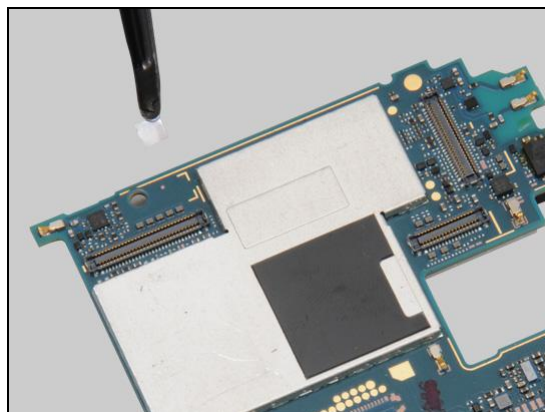
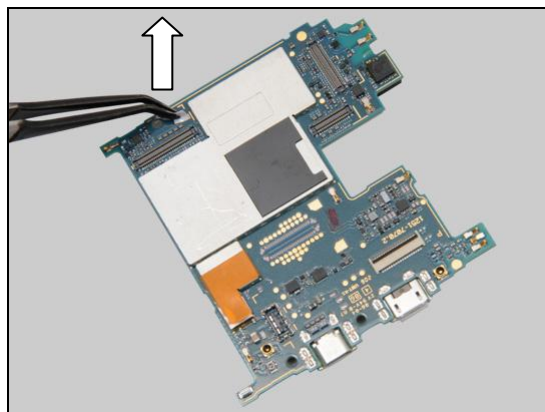
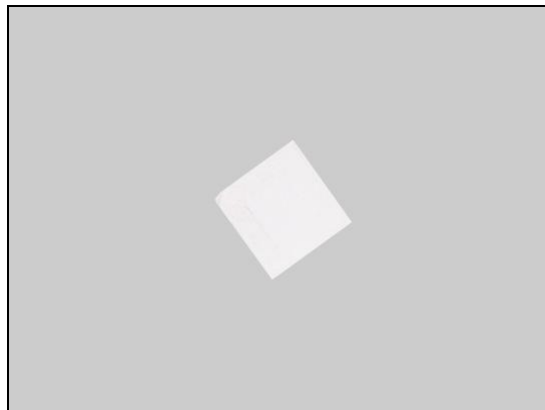
Remove the Liquid Indicator by using a Flex Film Assembly Tool.

Scrap! Not to be reused!

INSTALLATION

Attach a new Liquid Indicator on the Main PBA as indicated by the golden line.

Press to secure its position and attachment.



Replacement

4.32 Rubber Chat Camera

Follow the 3.1 – 3.11 Disassembly instructions!

Carry out the Removal as described below.

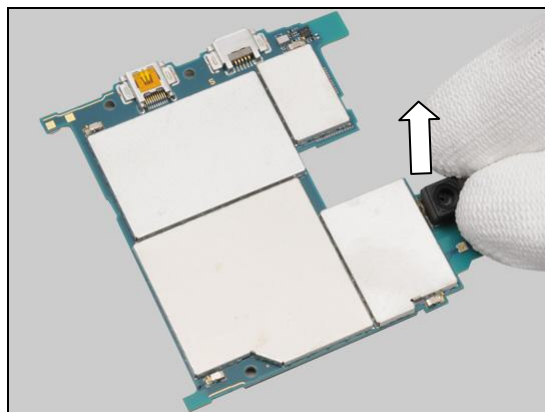
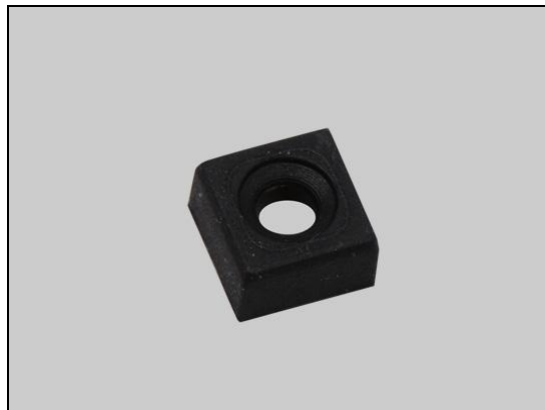
Prepare a new Rubber Chat Camera.

Carry out the Installation as described below.

Follow the 5.1 – 5.11 Reassembly instructions!

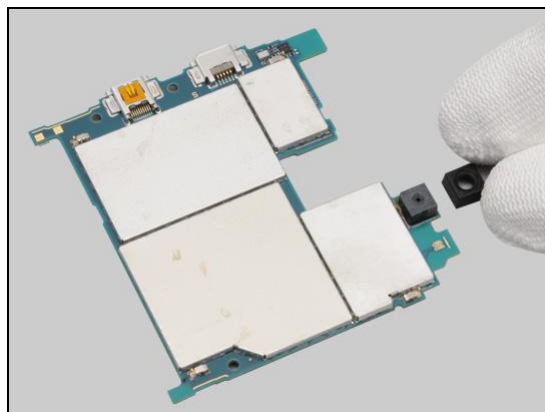
REMOVAL

Remove the Rubber Chat Camera with fingers.



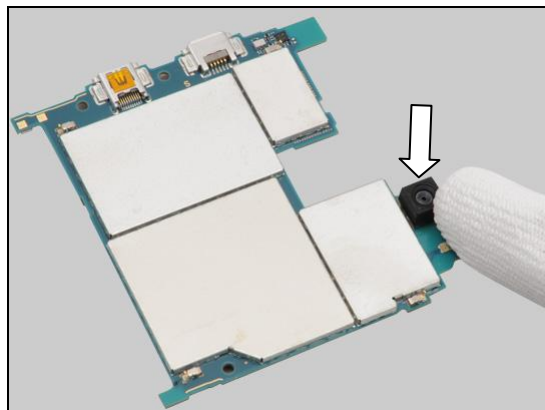
INSTALLATION

Place a new Rubber Chat Camera on the chat camera.



Press to secure its attachment.

Do not touch the lens!



Replacement

4.33 Shield Can Lid APQ

Follow the 3.1 – 3.11 Disassembly instructions!

Carry out the Removal as described below.

Prepare a new Shield Can Lid APQ.

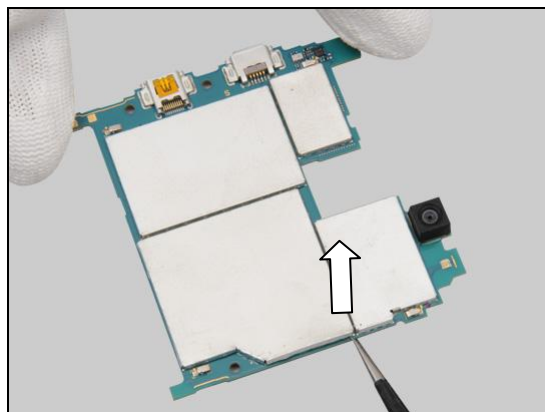
Carry out the Installation as described below.

Follow the 5.1 – 5.11 Reassembly instructions!

REMOVAL

Unsnap the corners of the Shield Can Lid APQ by using a pair of Tweezers and pull upwards to remove it.

Scrap! Not to be reused!

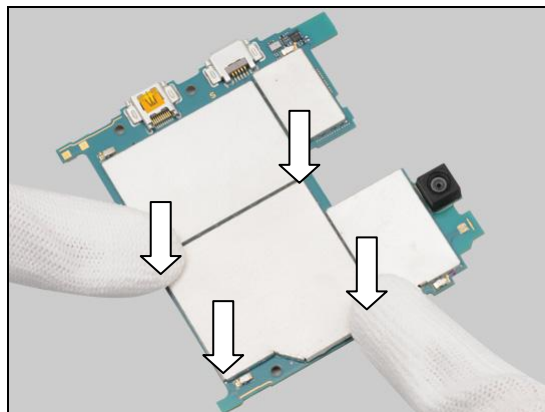
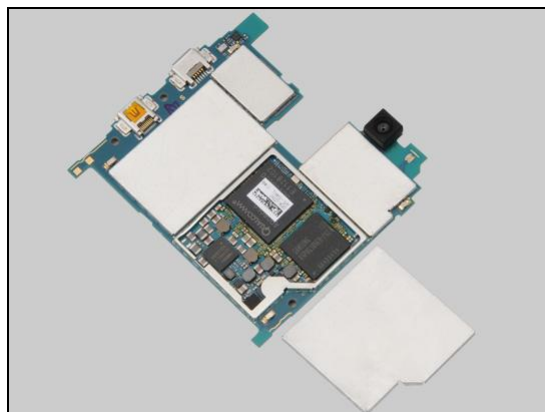


INSTALLATION

Prepare a new Shield Can Lid APQ.

Press to snap it.

Only the edge of the Shield Can is allowed to press.



Replacement

4.34 Shield Can Lid Charger

Follow the 3.1 – 3.11 Disassembly instructions!

Carry out the Removal as described below.

Prepare a Shield Can Lid Charger.

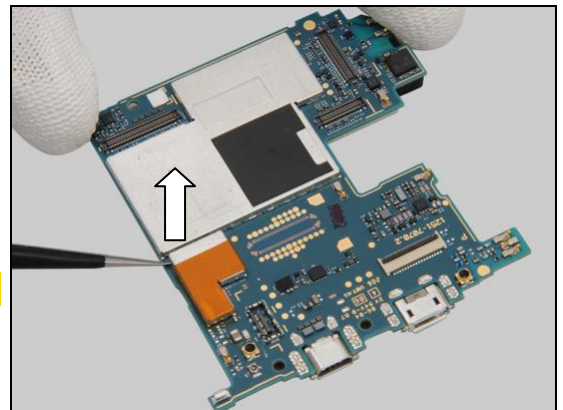
Carry out the Installation as described below.

Follow the 5.1 – 5.11 Reassembly instructions!

REMOVAL

Unsnap the corners of the Shield Can Lid Charger by using a pair of Tweezers and pull upwards to remove it.

Scrap! Not to be reused!

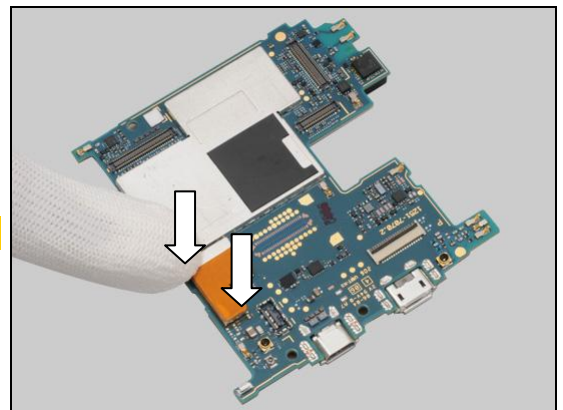
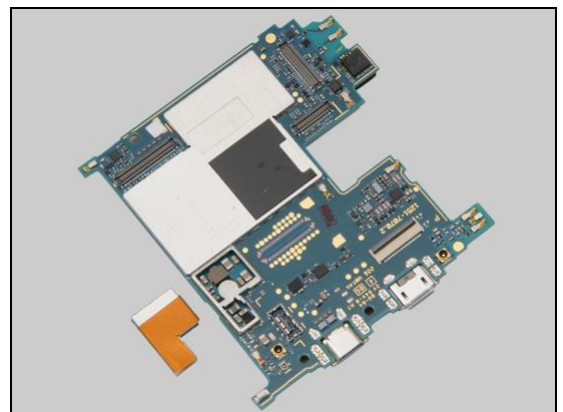


INSTALLATION

Prepare a new Shield Can Lid Charger.

Press to snap it.

Only the edge of the Shield Can is allowed to press.



Replacement

4.35 Shield Can Lid eMMC

Follow the 3.1 – 3.11 Disassembly instructions!

Carry out the Removal as described below.

Prepare a new Shield Can Lid eMMC.

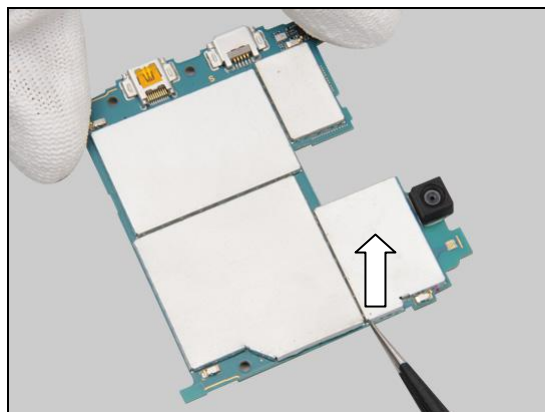
Carry out the Installation as described below.

Follow the 5.1 – 5.11 Reassembly instructions!

REMOVAL

Unsnap the corners of the Shield Can Lid eMMC by using a pair of Tweezers and pull upwards to remove it.

Scrap! Not to be reused!

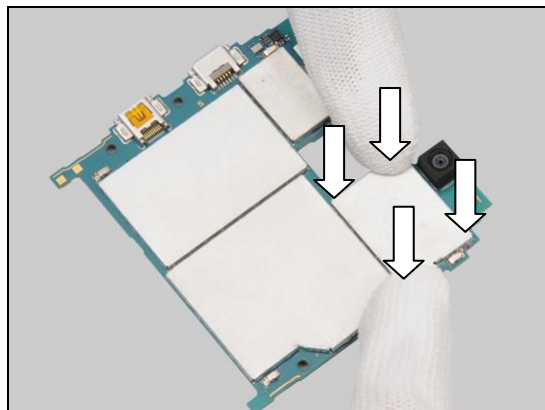
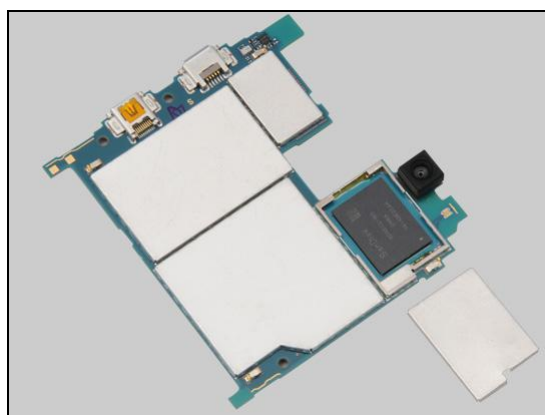


INSTALLATION

Prepare a new Shield Can Lid eMMC.

Press to snap it.

Only the edge of the Shield Can is allowed to press.



Replacement

4.36 Shield Can Lid MDM

Follow the 3.1 – 3.11 Disassembly instructions!

Carry out the Removal as described below.

Prepare a new Shield Can Lid MDM.

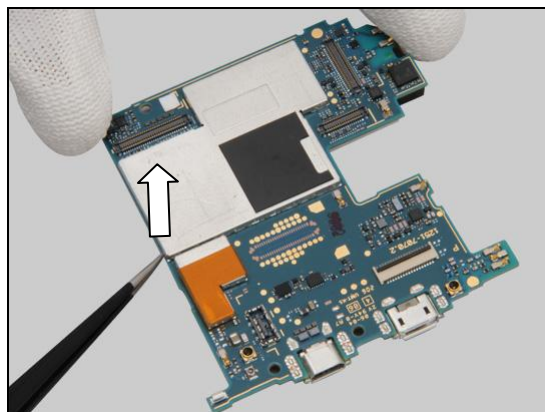
Carry out the Installation as described below.

Follow the 5.1 – 5.11 Reassembly instructions!

REMOVAL

Unsnap the corners of the Shield Can Lid MDM by using a pair of Tweezers and pull upwards to remove it.

Scrap! Not to be reused!

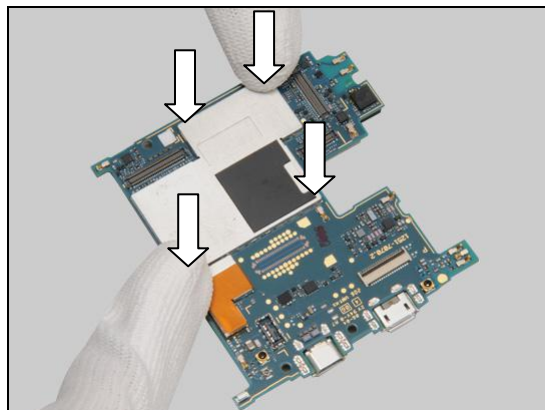
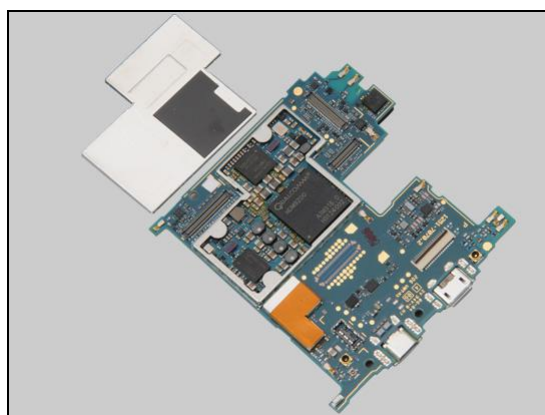


INSTALLATION

Prepare a new Shield Can Lid MDM.

Press to snap it.

Only the edge of the Shield Can is allowed to press.



Replacement

4.37 Shield Can Lid Non Cell

Follow the 3.1 – 3.11 Disassembly instructions!

Carry out the Removal as described below.

Prepare a new Shield Can Lid Non Cell.

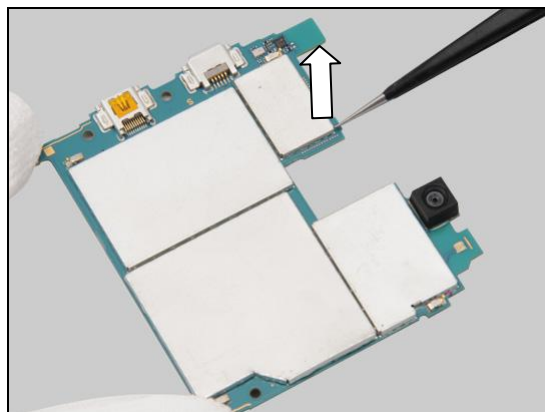
Carry out the Installation as described below.

Follow the 5.1 – 5.11 Reassembly instructions!

REMOVAL

Unsnap the corners of the Shield Can Lid Non Cell by using a pair of Tweezers and pull upwards to remove it.

Scrap! Not to be reused!

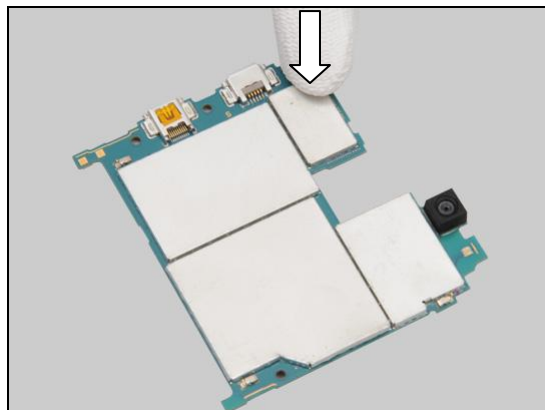
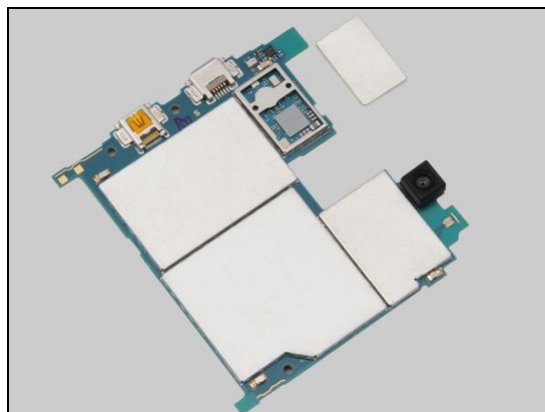


INSTALLATION

Prepare a new Shield Can Lid Non Cell.

Press to snap it.

Only the edge of the Shield Can is allowed to press.



Replacement

4.38 Shield Can Lid RF

Follow the 3.1 – 3.11 Disassembly instructions!

Carry out the Removal as described below.

Prepare a new Shield Can Lid RF.

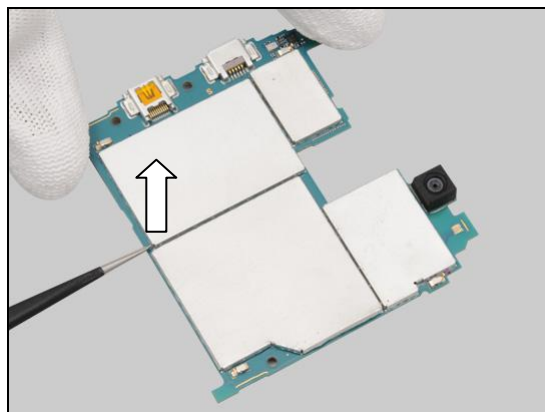
Carry out the Installation as described below.

Follow the 5.1 – 5.11 Reassembly instructions!

REMOVAL

Unsnap the corners of the Shield Can Lid RF by using a pair of Tweezers and pull upwards to remove it.

Scrap! Not to be reused!

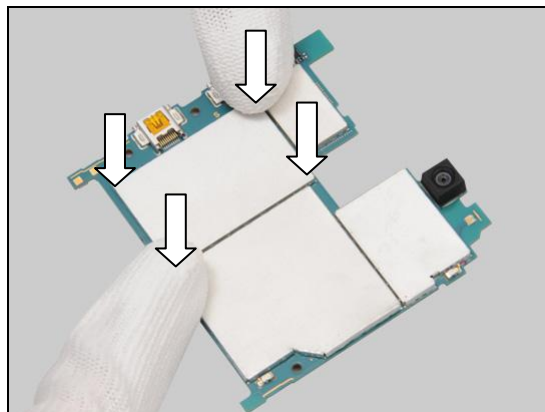
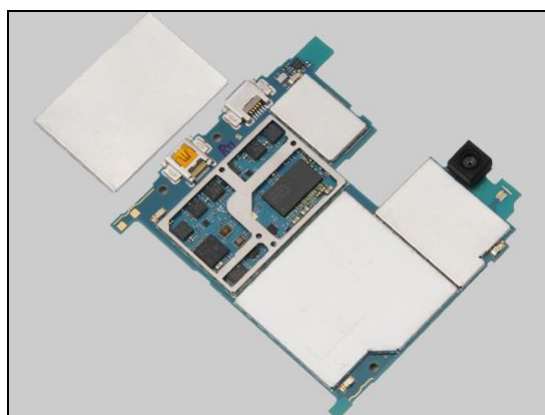


INSTALLATION

Prepare a new Shield Can Lid RF.

Press to snap it.

Only the edge of the Shield Can is allowed to press.



Replacement

4.39 Foil Adhesive Double Side

Follow the 3.1 – 3.11 Disassembly instructions!

Carry out the Removal as described below.

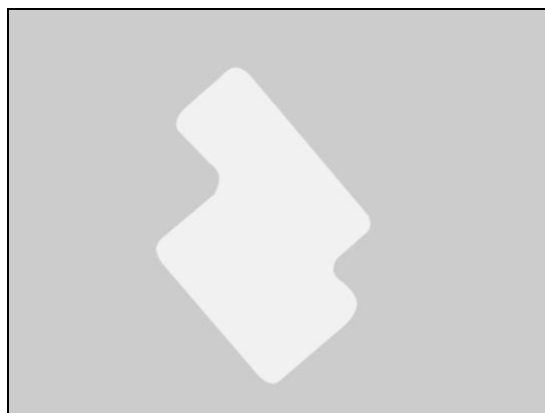
Prepare a new Foil Adhesive Double Side.

Carry out the Installation as described below.

Follow the 5.1 – 5.11 Reassembly instructions!

REMOVAL

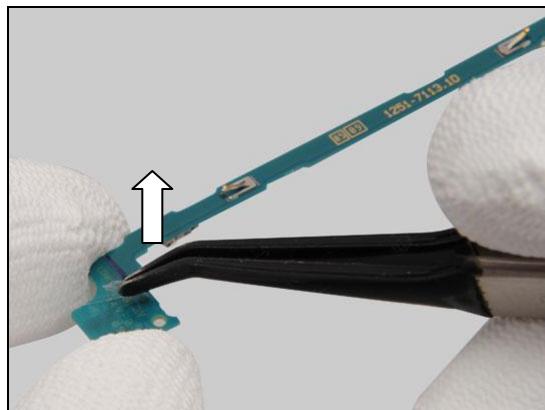
Gently detach the PBA Sub Antenna Assy from the cavity by using a Front Opening Tool.



Remove it from the cavity with fingers.



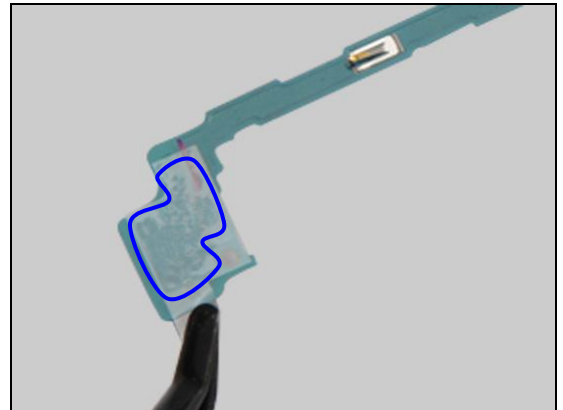
Gently peel off the Foil Adhesive Double Side.



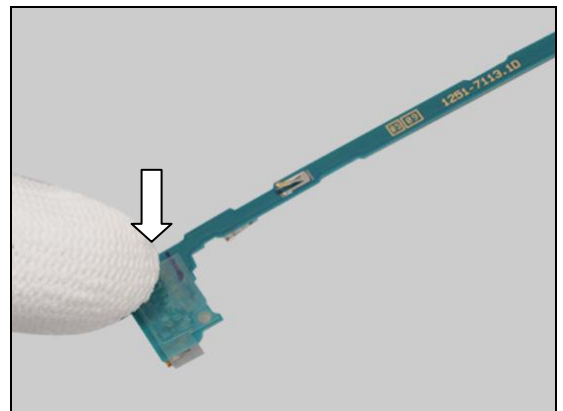
Replacement: Foil Adhesive Double Side

INSTALLATION

Place a new Foil Adhesive Double Side on the correct position.



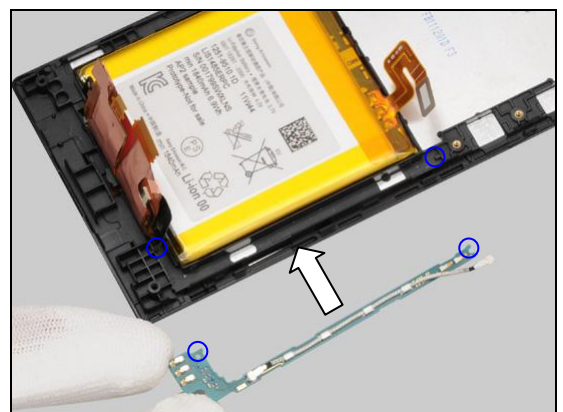
Press to secure its attachment.



Peel off the protective film.

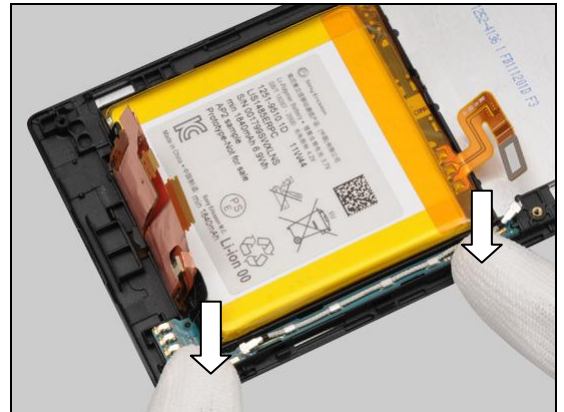


Place the PBA Sub Antenna Assy into the cavity as indicated by the pegs and holes.



Replacement: Foil Adhesive Double Side

Press along to secure its attachment.



Replacement

4.40 Cable RF

Follow the 3.1 – 3.11 Disassembly instructions!

Follow the 4.39 Removal Instructions!

Carry out the Removal as described below.

Prepare a new Cable RF.

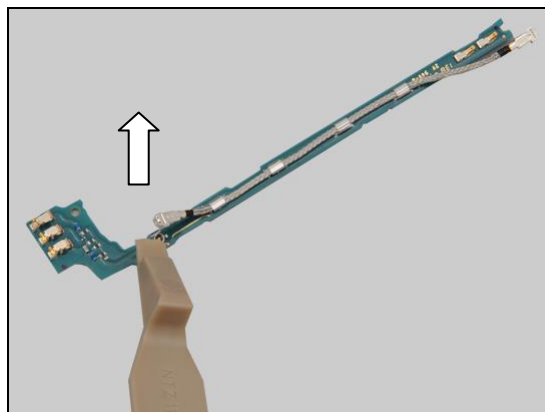
Carry out the Installation as described below.

Follow the 4.39 Installation Instructions!

Follow the 5.1 – 5.11 Reassembly instructions!

REMOVAL

Disconnect this end of the Cable RF.



Gently remove the Cable RF from the hooks of the PBA Sub Antenna Assy.



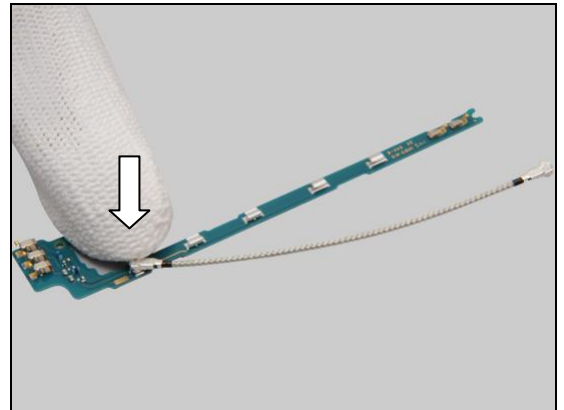
INSTALLATION

Prepare a new Cable RF and the PBA Sub Antenna Assy.

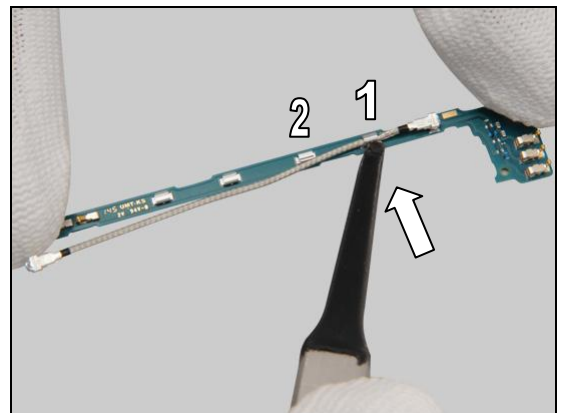


Replacement: Cable RF

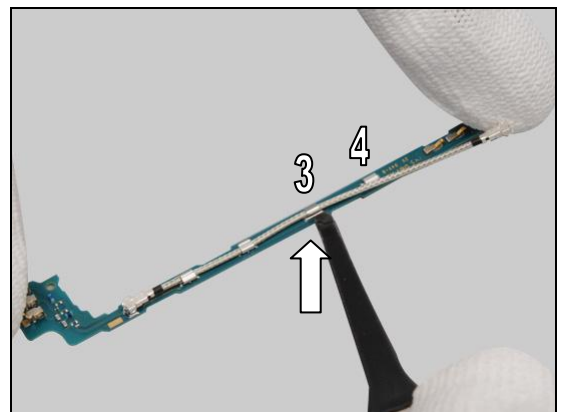
Connect this end of the Cable RF.



Insert the Cable RF into the two hooks as shown.



Turn the PBA Sub Antenna Assy over and insert the Cable RF into the two hooks.



Replacement

4.41 PBA Sub Antenna Assy

Follow the 3.1 – 3.11 Disassembly instructions!

Follow the 4.39 and 4.40 Removal instructions!

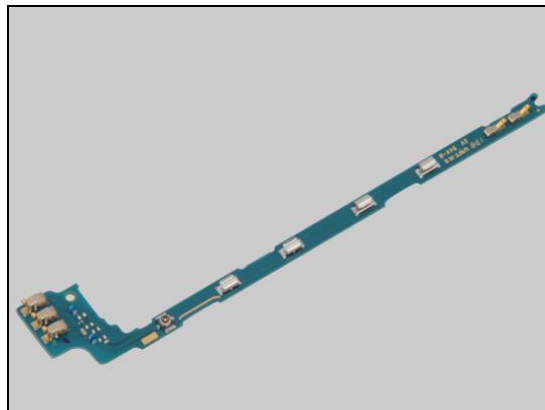
Carry out the Removal as described below.

Prepare a new PBA Sub Antenna Assy.

Carry out the Installation as described below.

Follow the 4.40 and 4.39 Installation instructions!

Follow the 5.1 – 5.11 Reassembly instructions!



Replacement

4.42 Battery 1900mAh & Cover Front Assy

Follow the 3.1 – 3.11 Disassembly instructions!

Follow the 4.39 Removal instructions!

Prepare a new Battery 1900mAh and a new Cover Front Assy.

Carry out the Installation as described below.

Follow the 4.39 Installation instructions!

Follow the 5.1 – 5.11 Reassembly instructions!



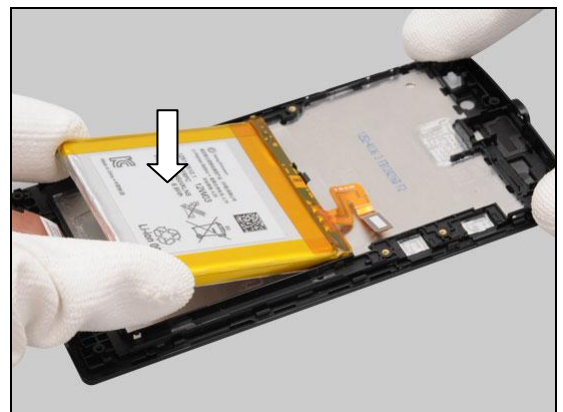
REMOVAL

**Scrap the Battery 1900mAh and the Cover Front Assy!
Not to be reused!**



INSTALLATION

Place a new Battery 1900mAh on the socket.



Press along to secure its attachment.



Replacement

4.43 Board Swap - Replacement

Follow the 3.1 – 3.11 Disassembly instructions!

Replace the Swap Board.

Reuse the Camera.

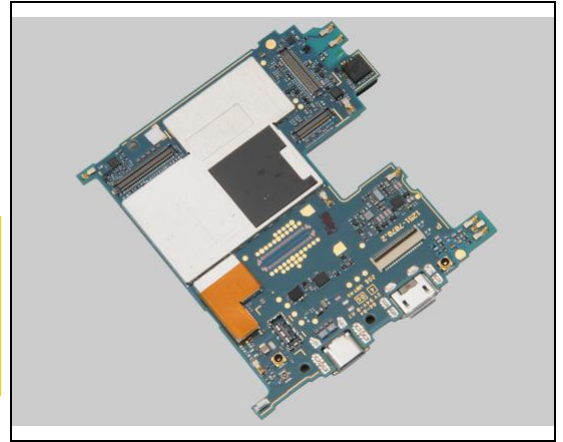
Follow the 4.32 Installation instructions!

Follow the 5.1 – 5.11 Reassembly instructions!

Place the unit on flat desk, tartup the unit to initialize settings, and wait 4 minutes before performs Customize Phone in Emma.

Please DO NOT move the phone during starting up until "Select Language" menu is shown on the display!

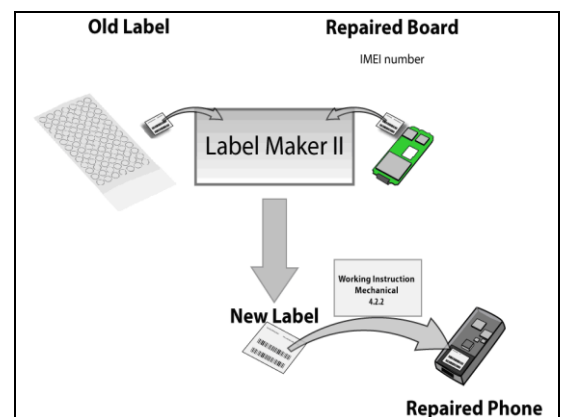
After "Select Language" menu, turn off the phone.



4.44 Board Swap – Change Label

CHANGE LABEL

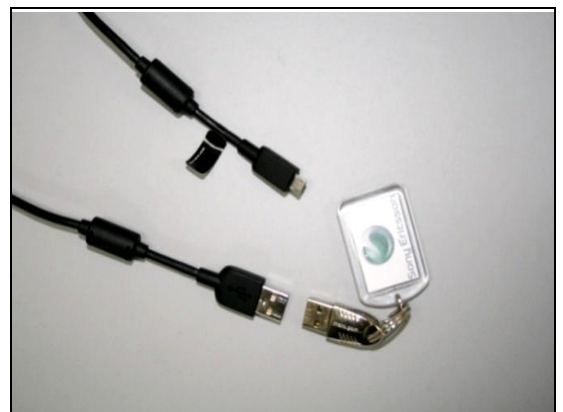
Follow the instructions in the Generic Repair Manual – Build swap for change of label.



4.45 Board Swap – Customize of Software

CUSTOMIZE OF SOFTWARE

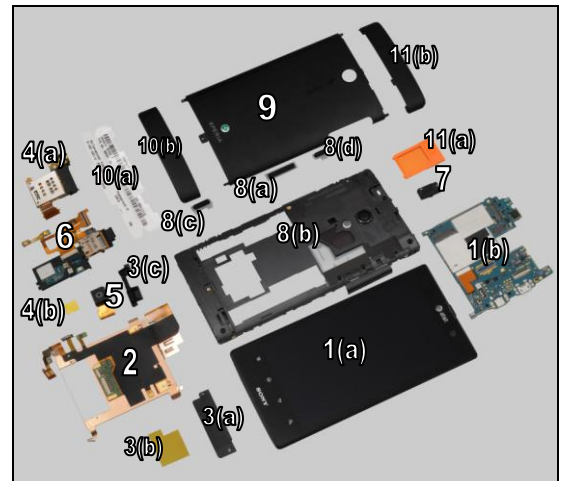
Follow the instructions in the Generic Repair Manual – Build swap for customization of the software.



5 Reassembly

The reassembly is done in the following order:

1. Cover Front Assy (a) & Main PBA (b)
2. FPC Bottom Flex Assy
3. Sheet LCM FPC (a) & Sheet Touch ZIF (b) & Carrier Holder Bottom (c)
4. FPC Top Flex Assy (a) & Sheet RCV Flex ZIF (b)
5. Camera
6. Carrier NFC Assy
7. Audio Jack
8. Key Volume (a) & Frame Rear Assy (b) & Key Camera (c) & Key On/Off (d)
9. Cover Rear Sub Assy
10. Label Core Unit (a) & Cover Rear Bottom (b)
11. SIM Tray (a) & Cover Rear Top (b)



5.1 Cover Front Assy & Main PBA

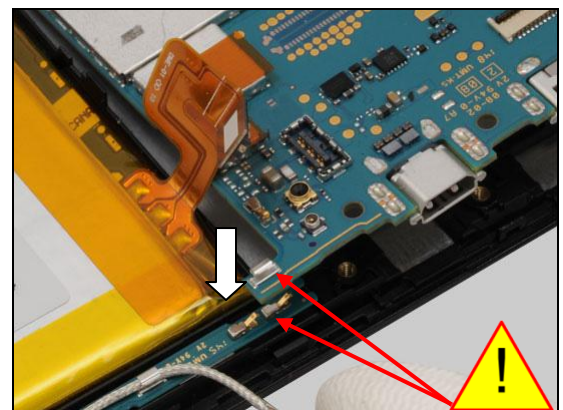
Prepare the Cover Front Assy and the Main PBA.



Place the Main PBA on its proper position and gently pull outwards the Cable RF as shown to make it keep away from the Cover Front Assy.



Securely place the corner of the Main PBA onto the pins of the PBA Sub Antenna Assy as shown in picture.



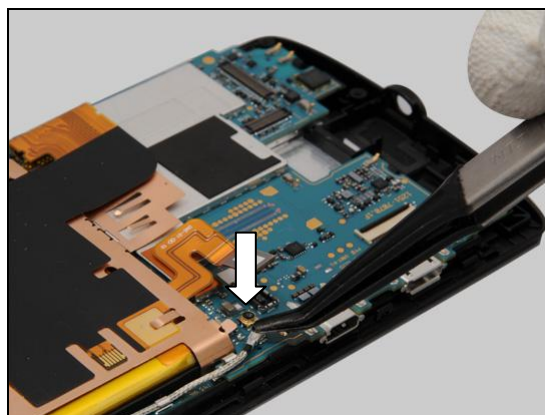
Reassembly

Press the main PBA to snap the hooks as shown.

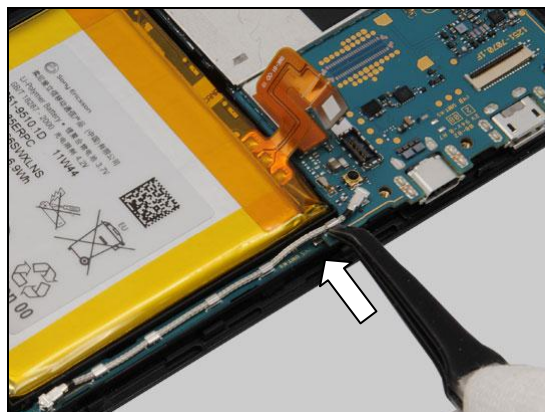
Do not press the pins on the Main PBA!



Connect this end of the Cable RF.



Gently push against the Cable RF to snap it into the hook of the Main PBA.



5.2 FPC Bottom Flex Assy

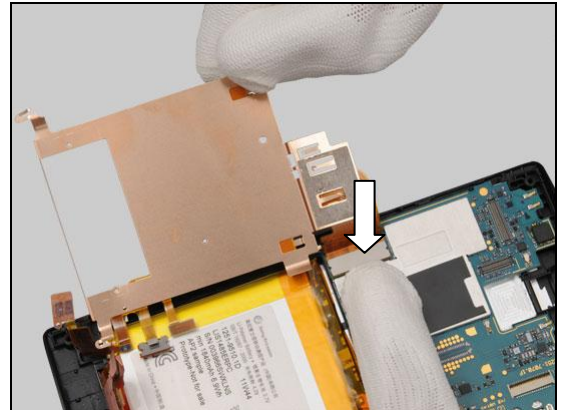
Follow the 4.29 Installation instructions!

Prepare a new FPC Bottom Flex Assy.

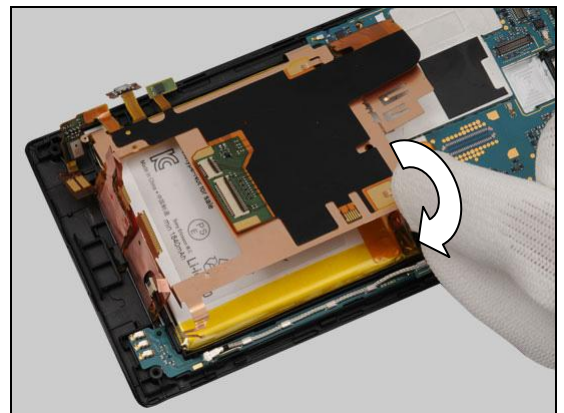


Reassembly

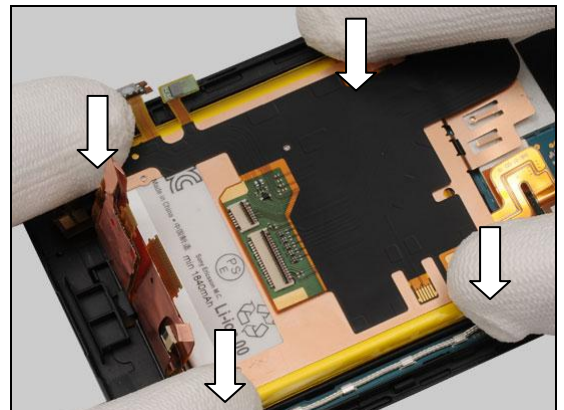
Snap the BtB connector.



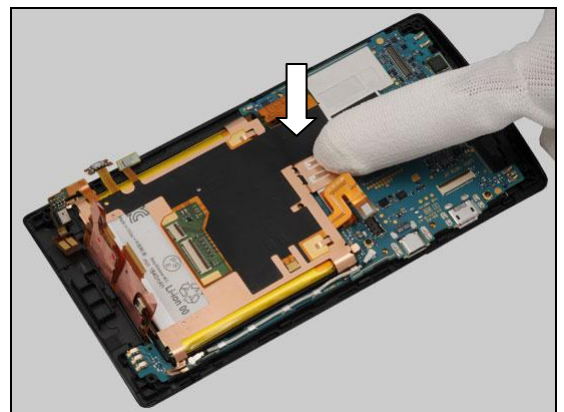
Turn it over.



Press to snap the hooks.

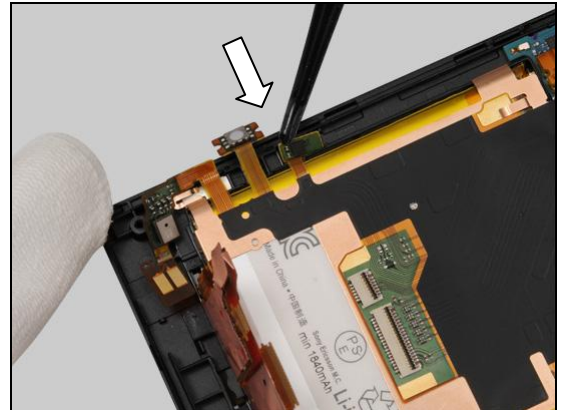


Press along to secure its attachment.

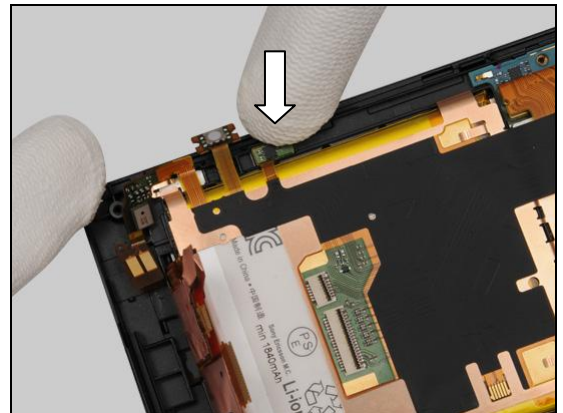


Reassembly

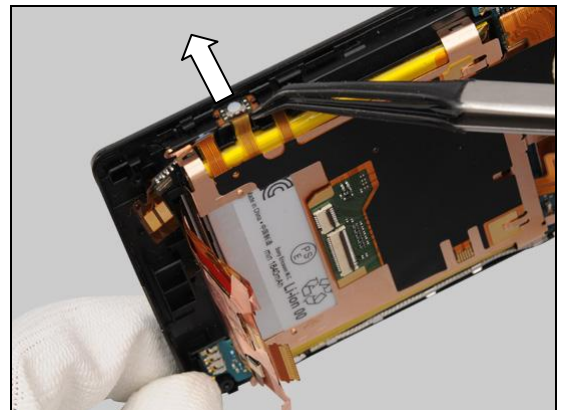
Push the FPC into the cavity by using a Flex Film Assembly Tool.



Press to secure its position.

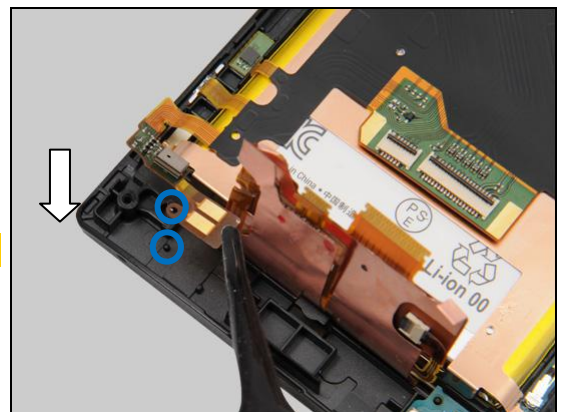


Push the switch into the cavity as shown in picture.



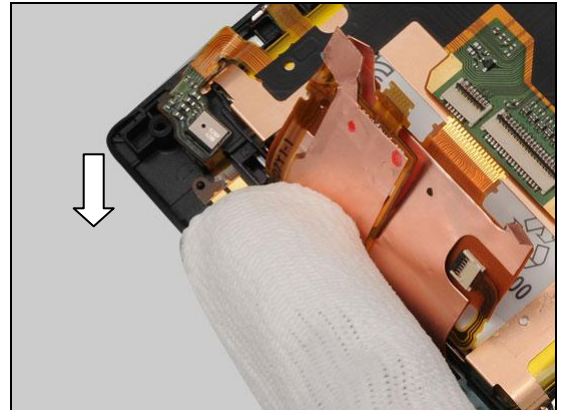
Securely place the FPC on its proper position as indicated by the peg and hole.

Do not touch the pads on the FPC!

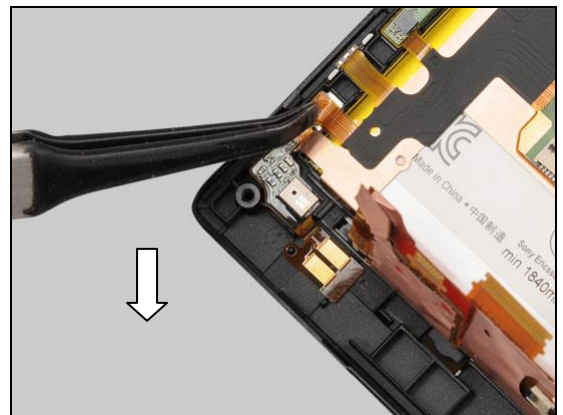


Reassembly

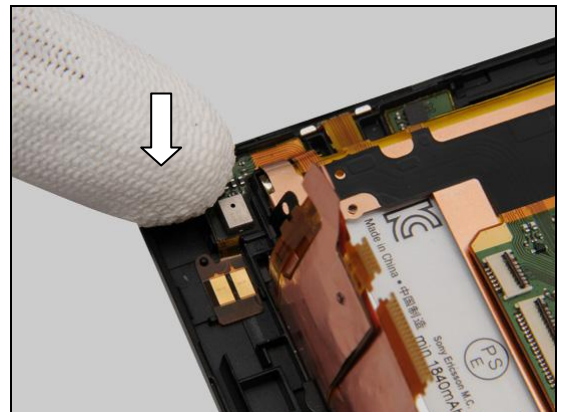
Press to secure its attachment.



Gently push the FPC into the cavity by using a Flex Film Assembly Tool.

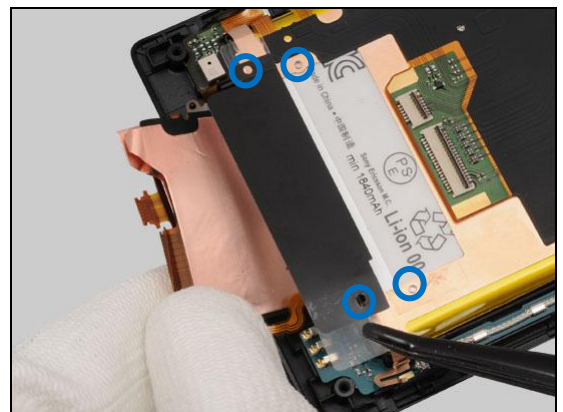


Press along to secure its position.



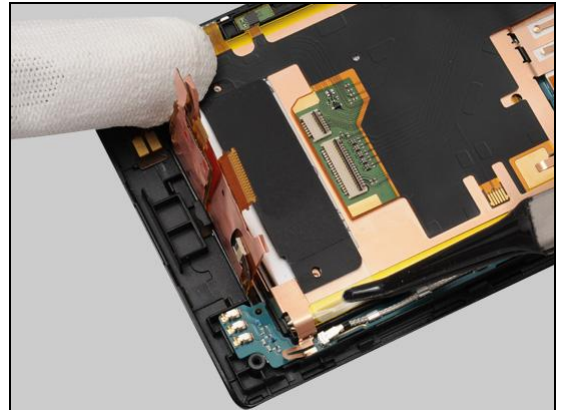
5.3 Sheet LCM FPC & Sheet Touch ZIF & Carrier Holder Bottom

Prepare a new Sheet LCM FPC and align it as indicated by the holes.

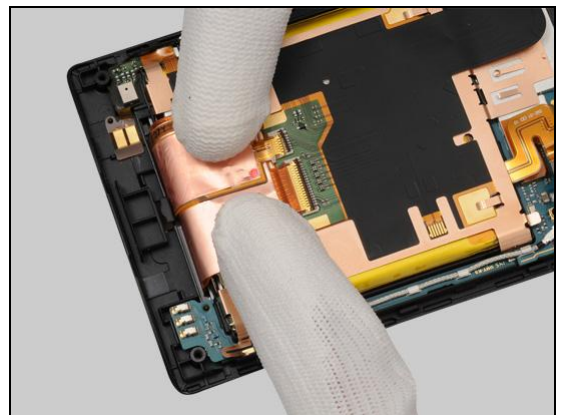


Reassembly

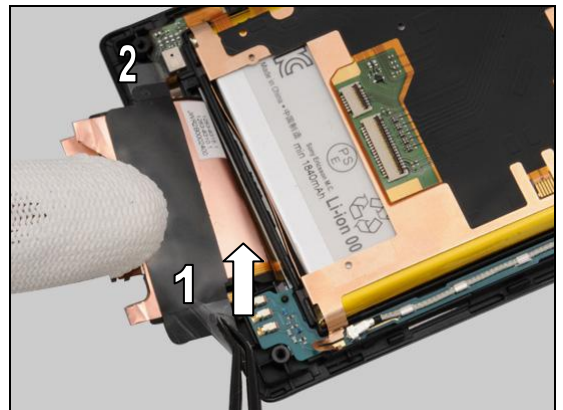
Securely place the Sheet LCM FPC on the Sheet Metal Battery Plate.



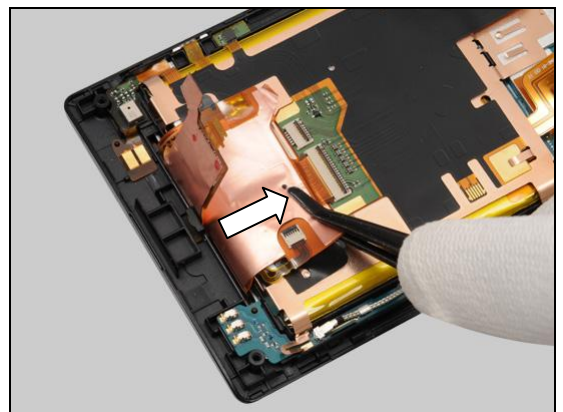
Press to secure its attachment.



Peel off the two protective films.

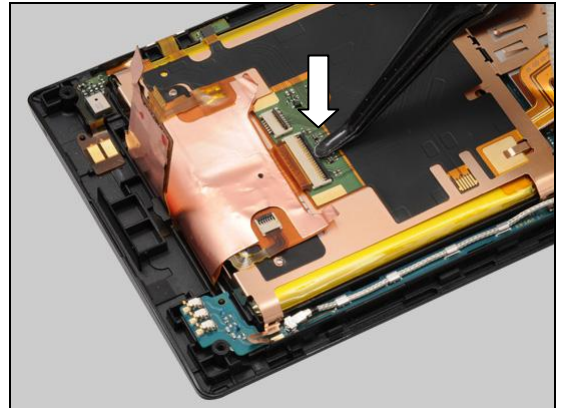


Insert the LCD FPC into the ZIF connector.

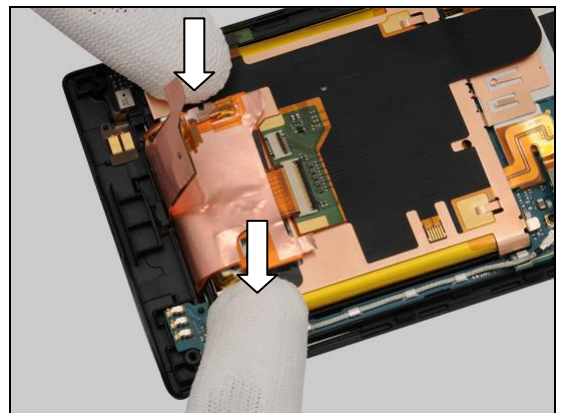


Reassembly

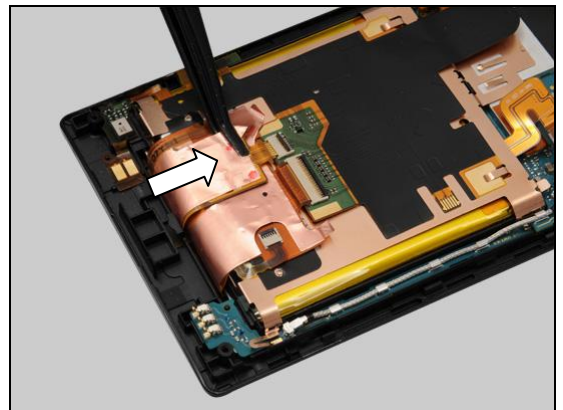
Lock it.



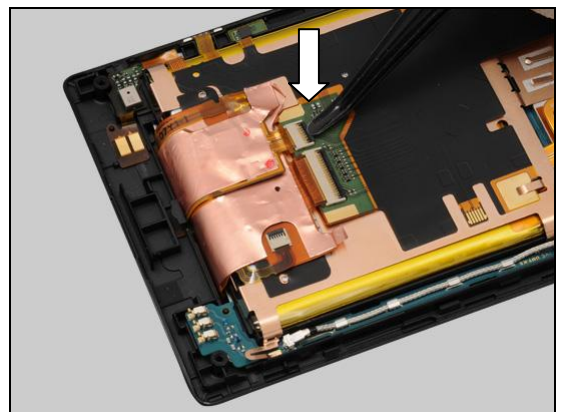
Press along the two sides of the Sheet LCM FPC to secure its attachment.



Insert the touch panel FPC into the ZIF connector.

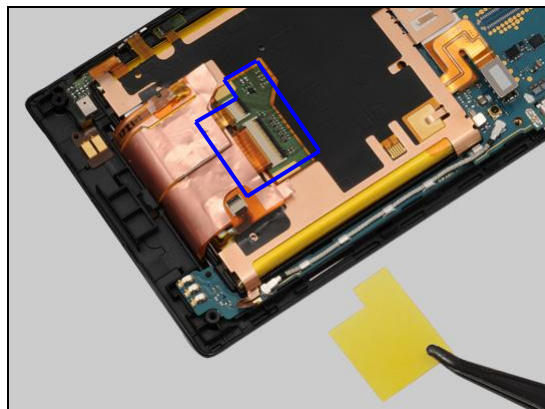


Lock it.

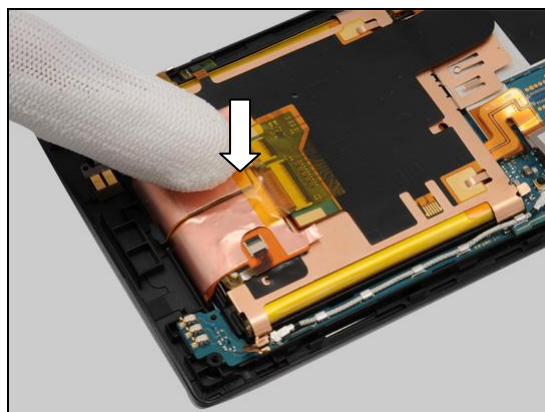


Reassembly

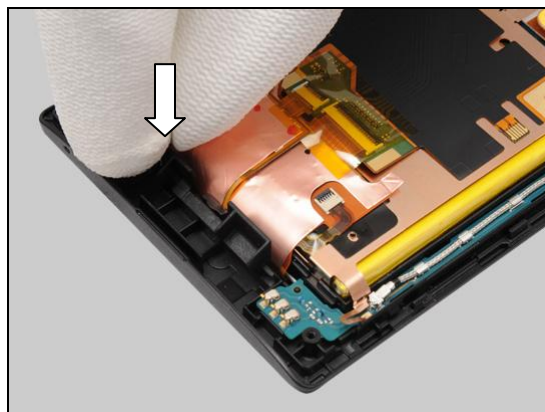
Place a new Sheet Touch ZIF on its correct position as indicated by the blue line.



Press along to secure its attachment.

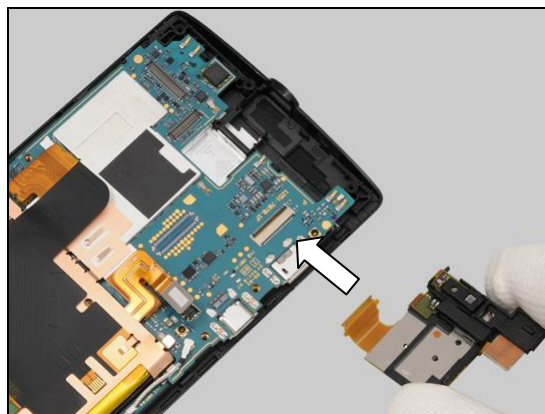


Insert the Carrier Holder Bottom into its cavity as shown and secure its position.



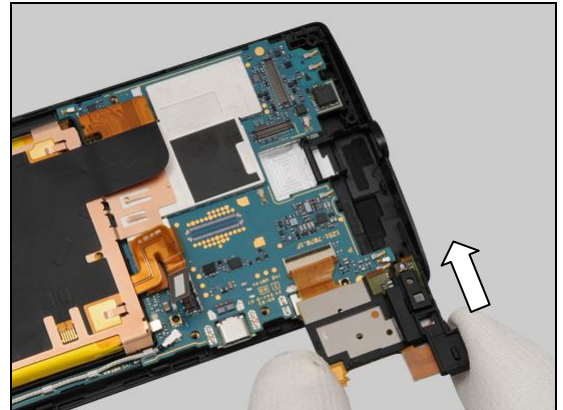
5.4 FPC Top Flex Assy

Prepare the FPC Top Flex Assy.

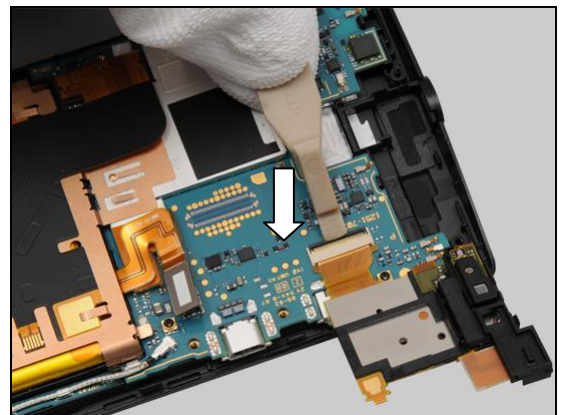


Reassembly

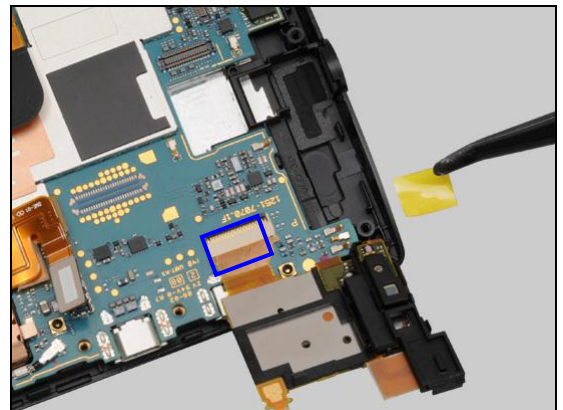
Insert the FPC into the ZIF connector as shown.



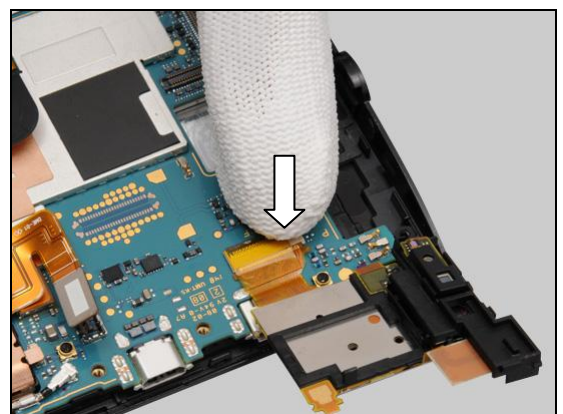
Lock it.



Attach a new Sheet RCV Flex ZIF on the proper position as indicated by the blue rectangle.

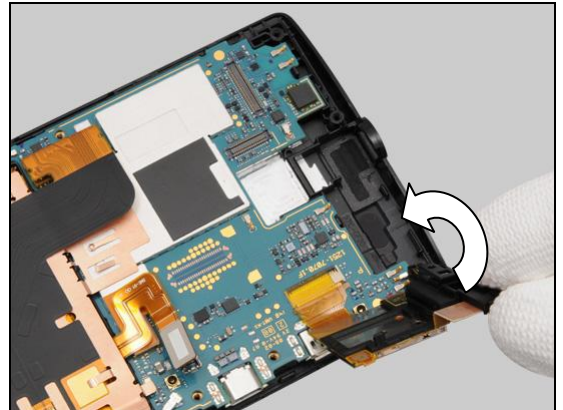


Press along to secure its attachment.

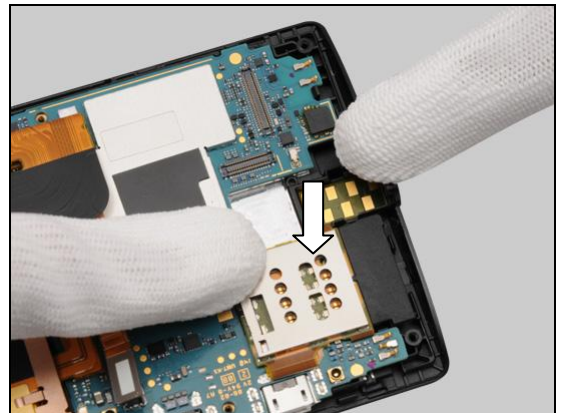


Reassembly

Turn it over.

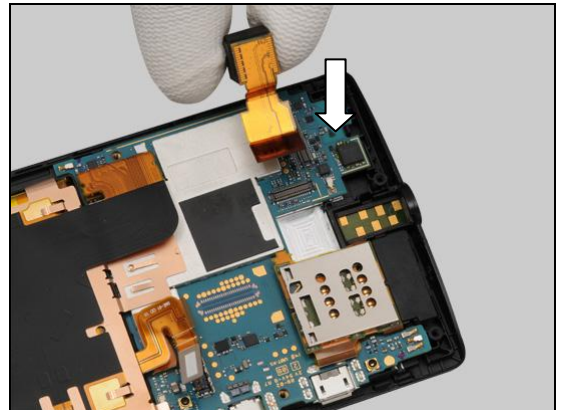


Press to snap the hooks and secure its attachment.

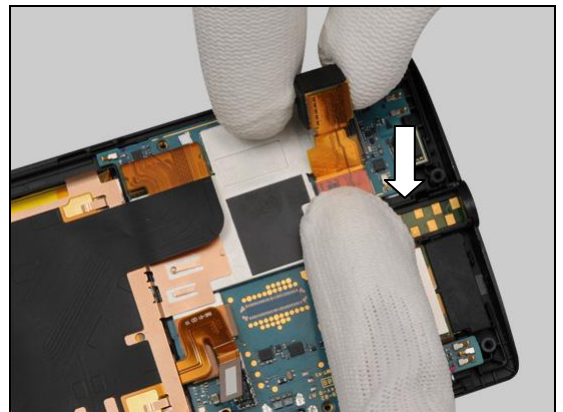


5.5 Camera

Prepare the Camera.

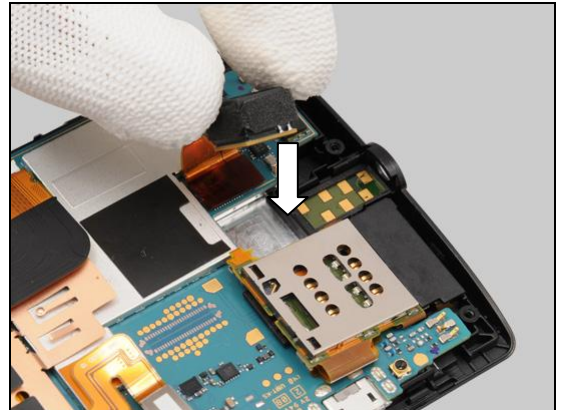


Snap the BtB connector.



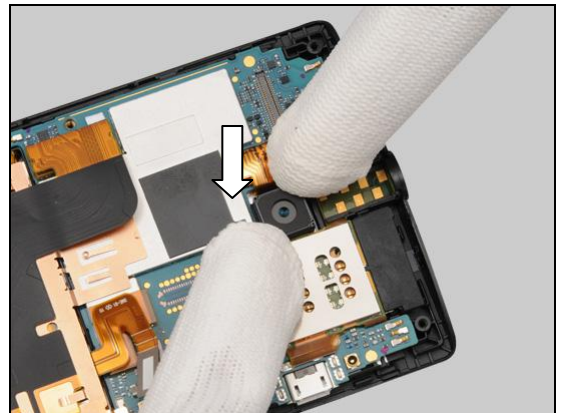
Reassembly

Gently push it into the cavity.



Press to secure its position.

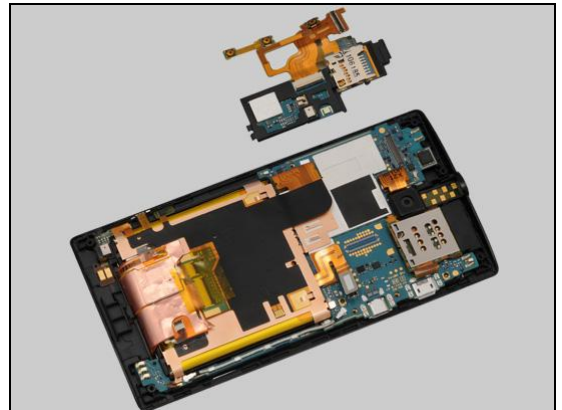
Do not touch the camera lens!



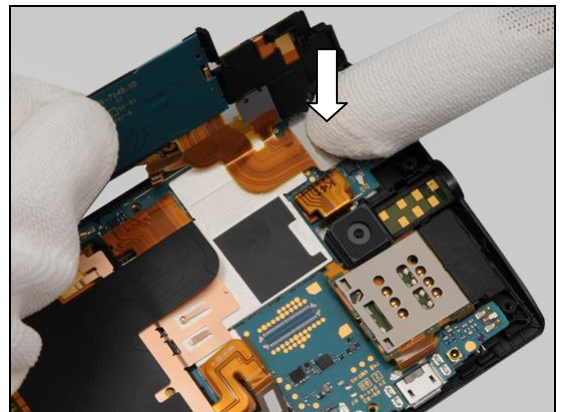
5.6 Carrier NFC Assy

Follow the 4.20 Removal and Installation instructions to replace a new FPC Side Key!

Prepare the new Carrier NFC Assy.

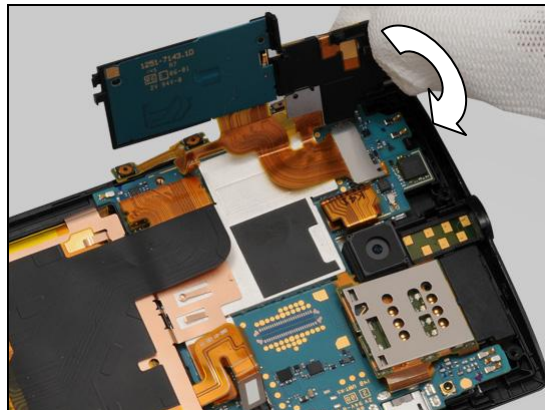


Snap the BtB connector.

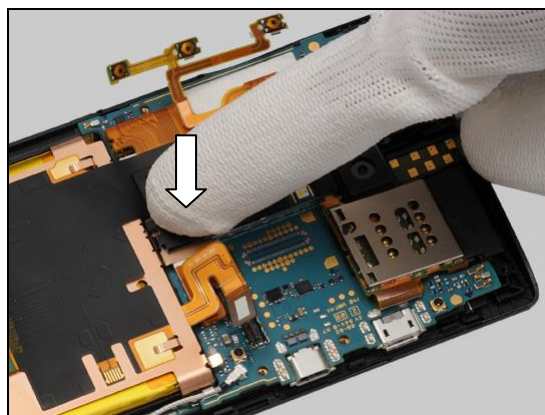


Reassembly

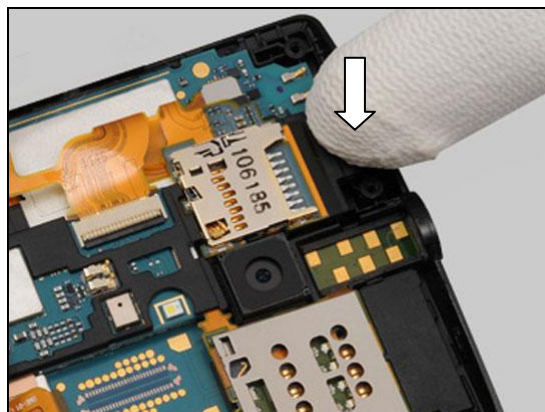
Turn it over.



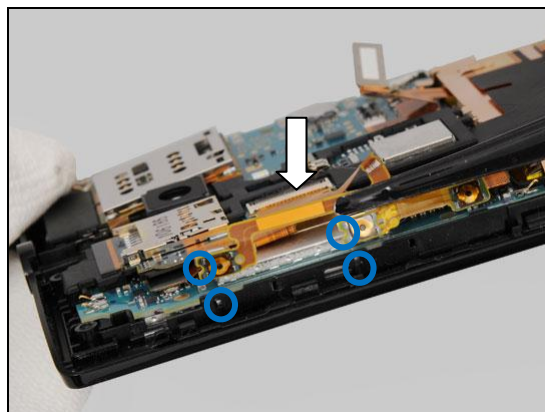
Press this side to insert the hooks into the holes as shown.



Press to snap the hook of this side.

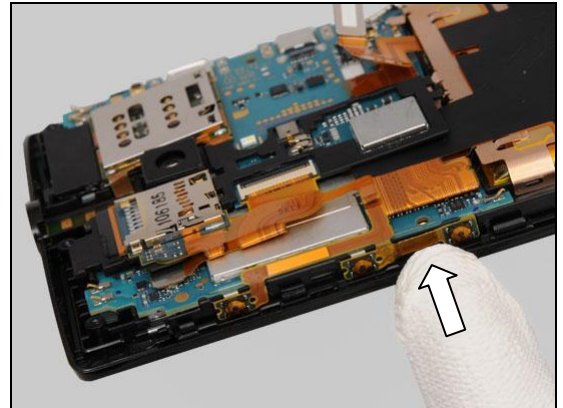


Securely place the switches on the front unit as indicated by the holes.



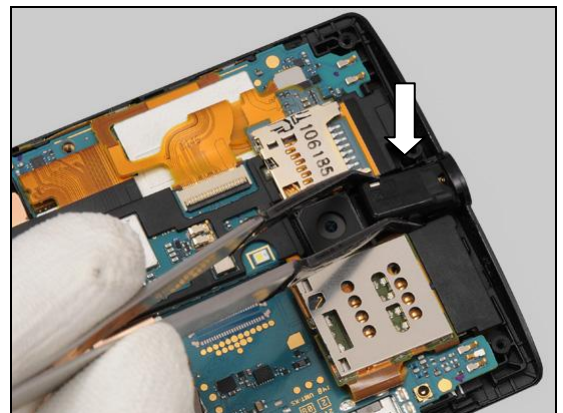
Reassembly

Press along to secure its attachment and position.

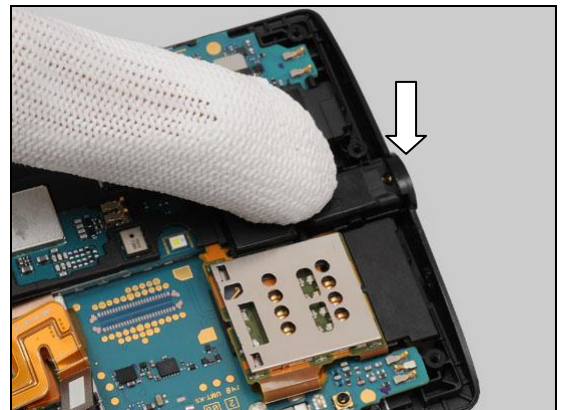


5.7 Audio Jack

Place the Audio Jack into its socket by using a Flex Film Assembly Tool.



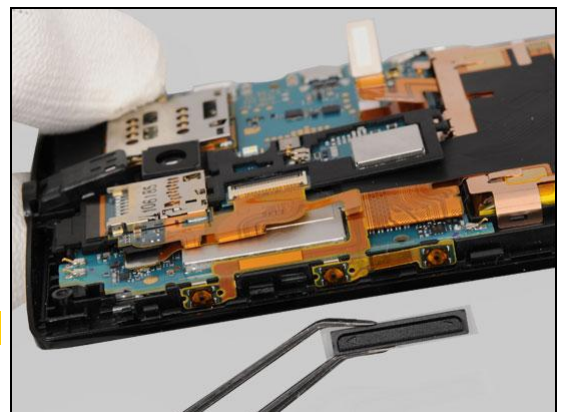
Press to secure its position.



5.8 Key Volume & Frame Rear Assy & Key Camera & Key On/Off

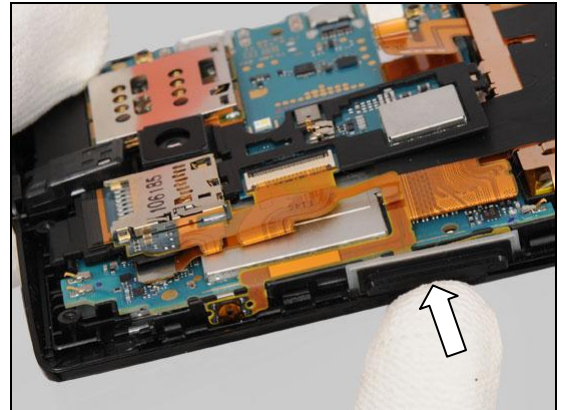
Place the Key Volume on the proper position.

Note the orientation of the Key Volume to be installed!

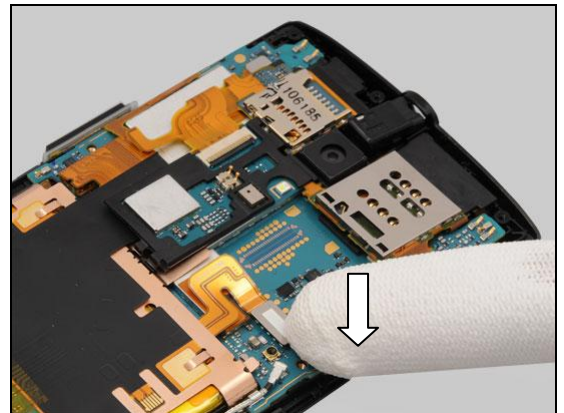


Reassembly

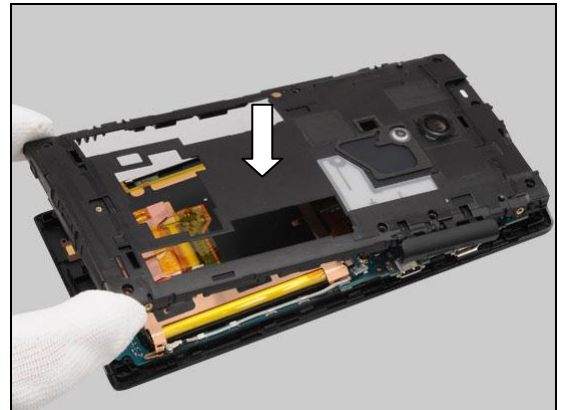
Press it to make it securely mounted.



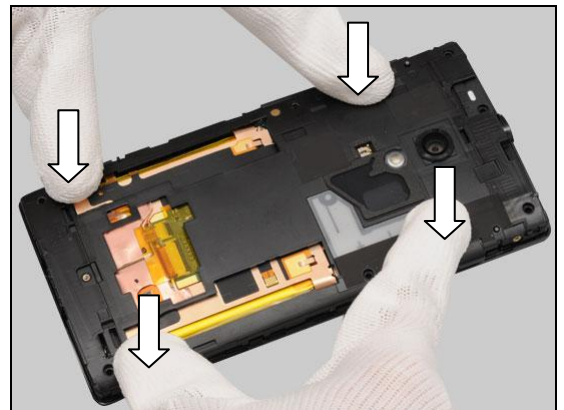
Snap the BtB connector.



Place the Frame Rear Assy on the front unit.

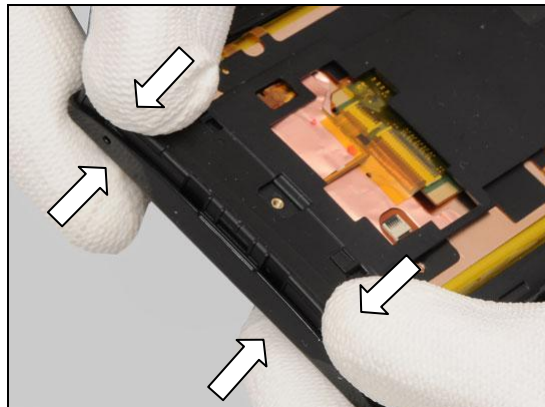


Press to snap the hooks.

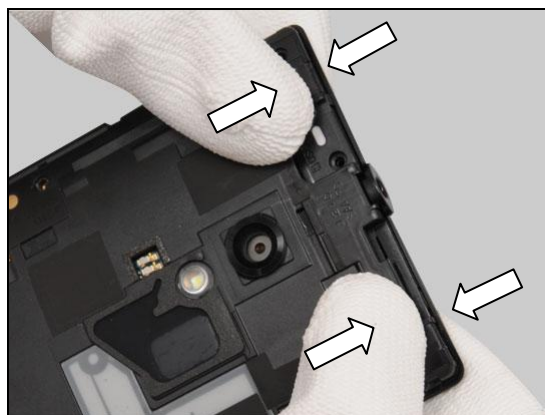


Reassembly

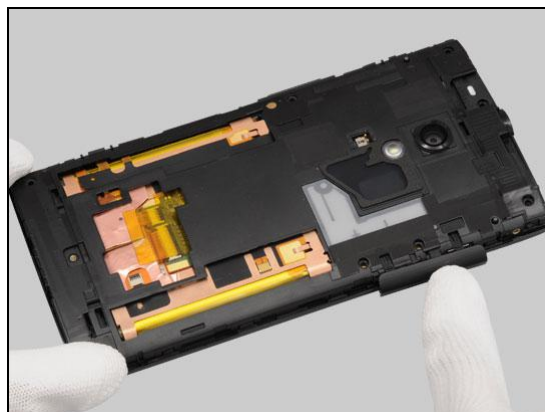
Press this side to secure its position.



Press the opposite side.



Push the Cap USB HDMI to secure its position.

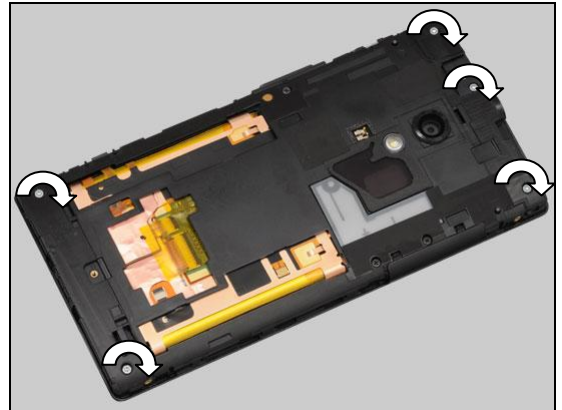


Apply 14 ± 2 Ncm torque when tightening the three screws with Bits (JCIS No 0).



Reassembly

Apply 14 ± 2 Ncm torque when tightening the five screws with Bits (T5).

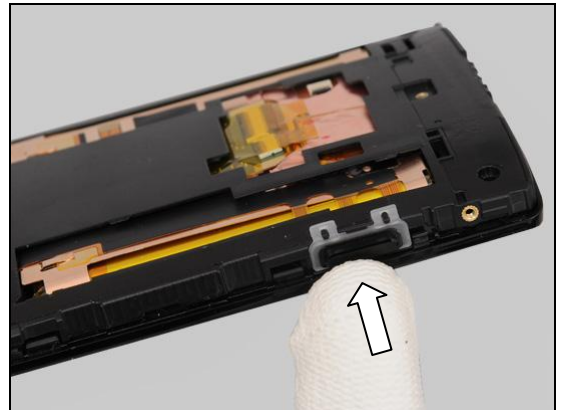


Place the Key Camera on its correct position.

Note the orientation of the Key Camera to be installed!



Press it to make it securely mounted.



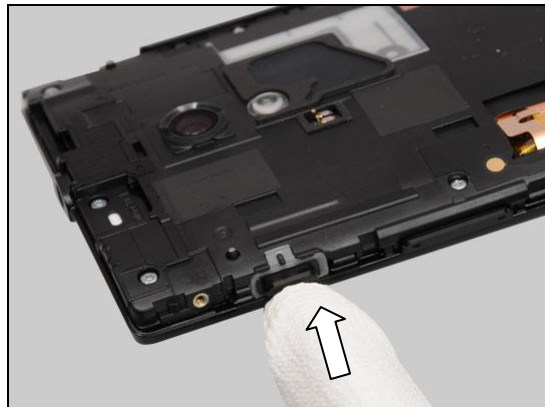
Place the Key On/Off on its correct position.

Note the orientation of the Key On/Off to be installed!



Reassembly

Press it to make it securely mounted.



5.9 Cover Rear Sub Assy

Place the Cover Rear Sub Assy on the front unit.



Press to snap the hooks of it.



Apply 10 ± 2 Ncm torque when tightening the screw with Bits (JCIS No.0).



Reassembly

Apply 10 ± 2 Ncm torque when tightening the two screws with Bits (JCIS No.0).



Apply 10 ± 2 Ncm torque when tightening the two screws with Bits (JCIS No.0).



5.10 Label Core Unit & Cover Rear Bottom

Attach a new Label Core Unit on its proper position as indicated by the blue lines.



Press along to secure its attachment and position.



Reassembly

Fold the bottom of the Label Core Unit along the broken line.



Prepare the Cover Rear Bottom.



Place the Cover Rear Bottom on the proper position.



Press to snap the hooks.



Reassembly

5.11 SIM Tray & Cover Rear Top

Insert the SIM Tray into the slot.



Push it into the bottom of the slot.



Place the Cover Rear Top on the proper position.



Push it to snap the hooks.



6 Revision History

Rev.	Date	Changes / Comments
1	2012-May-18	Initial release
2	2012-July-25	Added LT28h
3	2012-July-27	Update the chapter 4.42
4	2012-Aug-20	Words adjusted
5	2012-Aug-30	Update the Board Swap chapter
6	2012-Sep-6	Added Rubber Mic