

SONY

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Working Instructions - mechanical -



Xperia™ acro S

LT26w

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

1 Exterior Views

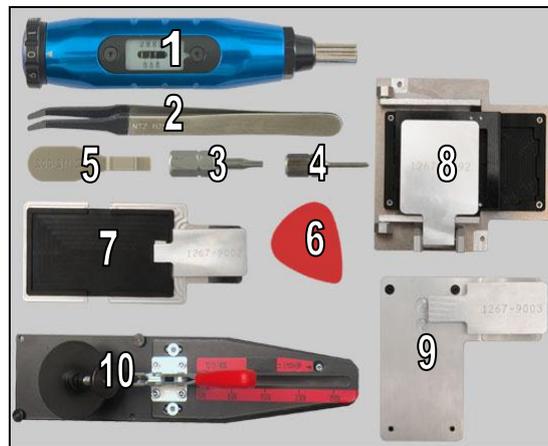
1.1 LT26w



2 Tools

SPECIAL TOOLS

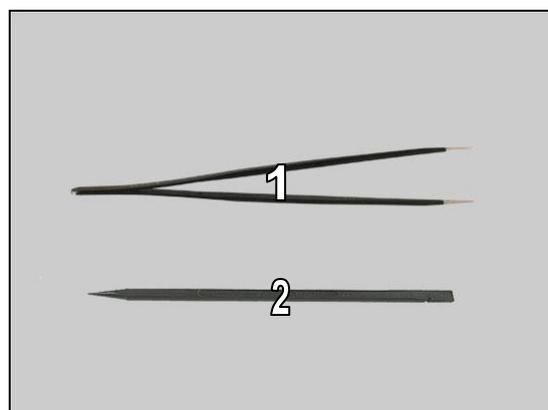
1. Torque Screwdriver
2. Flex Film Assembly Tool
3. Bits (T6)
4. Bits (JCIS No 0)
5. Front Opening Tool
6. Guitar Pick
7. Press Tool Earspeaker
8. Battery Press Insert
9. Press Tool Loudspeaker
10. Pressure Tool



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

STANDARD TOOLS

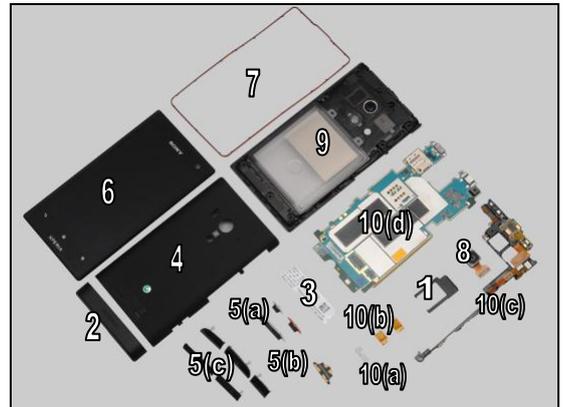
1. Tweezers
2. Nylon Pointer



3 Disassembly

The disassembly is done in the following order:

1. SIM Connector
2. Cover Bottom
3. Core Unit Label
4. Cover Back
5. Keys (a) & Charger PAD connector (b) & Caps (c)
6. Touch/Display Front Cover Assy
7. Gasket Main
8. Camera with the holder
9. Rear Cover Assy
10. Spacer Felica (a) & Sheet Key FPC (b) & PBA Flex Module (c) & PBA (d)



3.1 SIM Connector

Do not touch the sealing rubber of the Cap SIM!
Make sure that the Cap SIM is clean, no dirt, particles and fiber attached on it!

Pull upwards to release the Cap SIM with fingers.



Pull out the SIM Connector and remove it.



Turn the Cap SIM over.



Disassembly

Press to snap the Cap SIM.



3.2 Cover Bottom

Push the Cover Bottom to release the hooks as shown in picture.



Pull upwards the Cover Bottom with fingers to release the hooks and remove it.



3.3 Core Unit Label

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

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

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



Disassembly

3.4 Cover Back

**Do not damage the battery film on the Rear Cover Assy!
If the battery film is damaged, replace the Rear Cover Assy!**

Insert a Guitar Pick as shown in picture and gently slide along to release this side of the Cover Back.



Do the same on this side as shown.



Insert a Guitar Pick as shown in picture and gently pull upwards to release the hook of the Cover Back.



Do the same to release the hook as shown.



Disassembly

Do the same on this side.

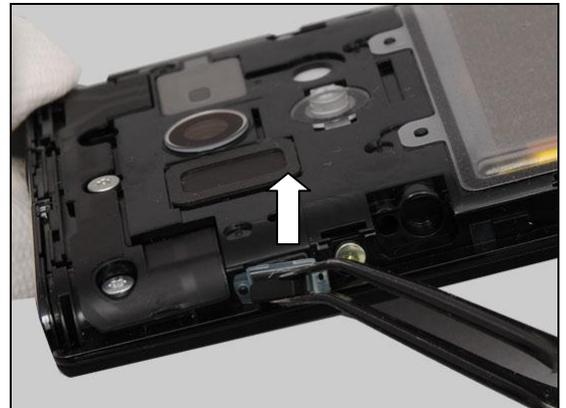


Remove the Cover Back.

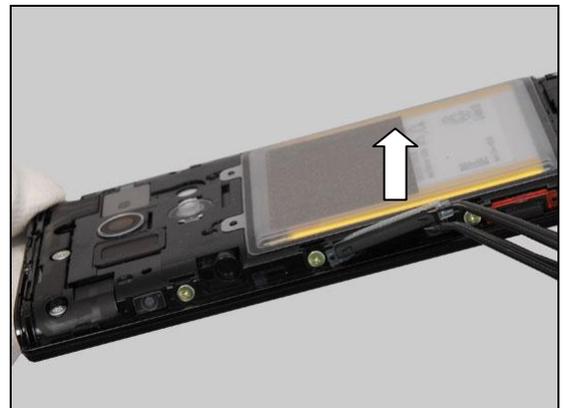


3.5 Keys & Charger PAD connector & Caps

Gently remove the Key Power by using a Flex Film Assembly Tool.



Remove the Key Volume.



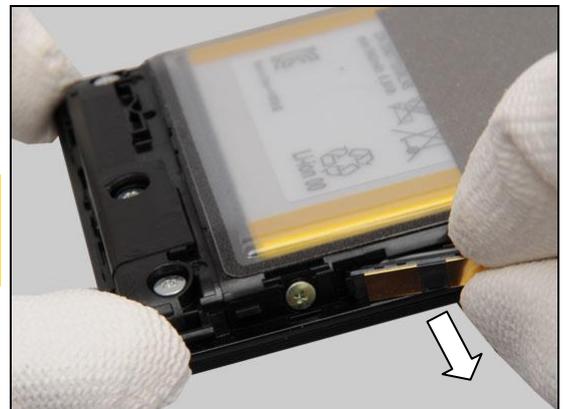
Disassembly

Remove the Key Camera.



Gently pull outwards to remove the Charger PAD connector.

Do not touch the O-Ring of the Charger PAD connector!
Make sure that the Charger PAD connector is clean, no dirt, particles and fiber attached on it!



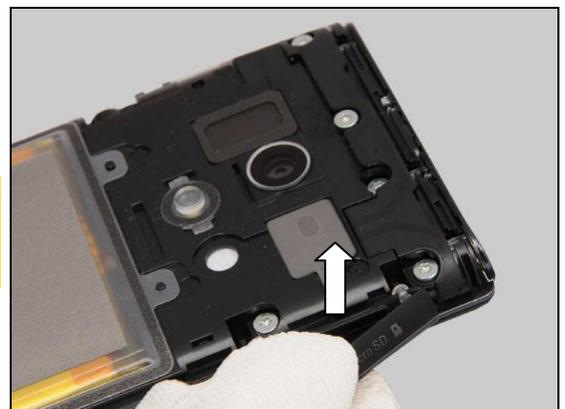
Gently remove the Cap SIM by lifting straight up.

Do not touch the sealing rubber of the Cap SIM!
Make sure that the Cap SIM is clean, no dirt, particles and fiber attached on it!



Do the same to remove the Cap Micro SD.

Do not touch the sealing rubber of the Cap Micro SD!
Make sure that the Cap Micro SD is clean, no dirt, particles and fiber attached on it!



Disassembly

Do the same to remove the Cap Micro USB.

Do not touch the sealing rubber of the Cap Micro USB!
Make sure that the Cap Micro USB is clean, no dirt, particles and fiber attached on it!



Do the same to remove the Cap Audio Jack.

Do not touch the sealing rubber of the Cap Audio Jack!
Make sure that the Cap Audio Jack is clean, no dirt, particles and fiber attached on it!



Do the same to remove the Cap HDMI.

Do not touch the sealing rubber of the Cap HDMI!
Make sure that the Cap HDMI is clean, no dirt, particles and fiber attached on it!



3.6 Touch/Display Front Cover Assy

Remove these eight screws Len:5.0 Diam:1.7 O-Ring by using a screwdriver with Bits (T6).

Scrap! Not to be reused!



Disassembly

Remove the two screws Len:2.8 Diam:1.4 O-Ring M by using a screwdriver with Bits (JCIS No 0).

Scrap! Not to be reused!



Remove the three screws Len:2.8 Diam:1.4 O-Ring M by using a screwdriver with Bits (JCIS No 0).

Scrap! Not to be reused!



Insert a Guitar Pick as shown in picture and gently slide along to release this side.

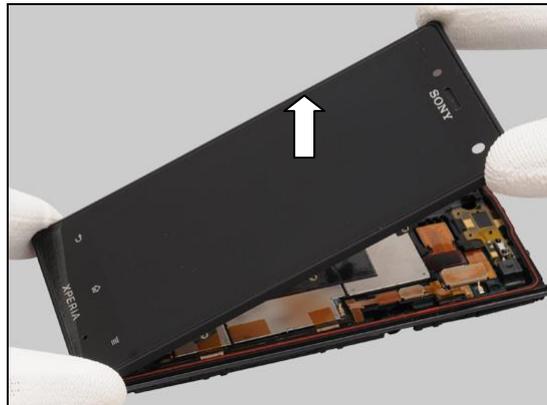


Do the same on the opposite side.



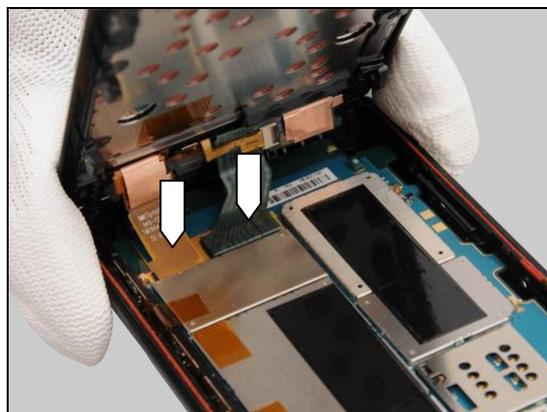
Disassembly

Turn the phone over and gently lift up the Touch/Display Front Cover Assy at approximately 45 degree as shown in picture.



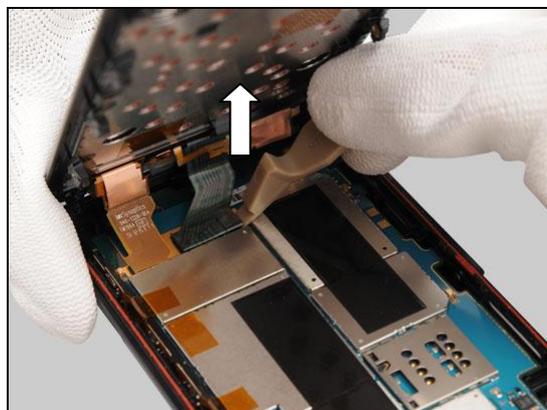
There are two BtB connectors of the Touch/Display Front Cover Assy.

Do not stretch these two FPCs!



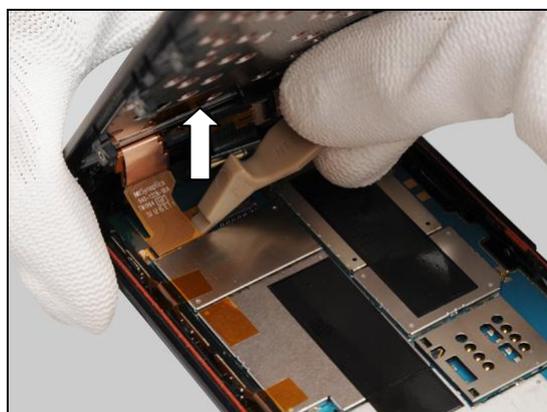
Disconnect the BtB connector by using a Front Opening Tool.

Be careful! Do not damage the components around the BtB connector!



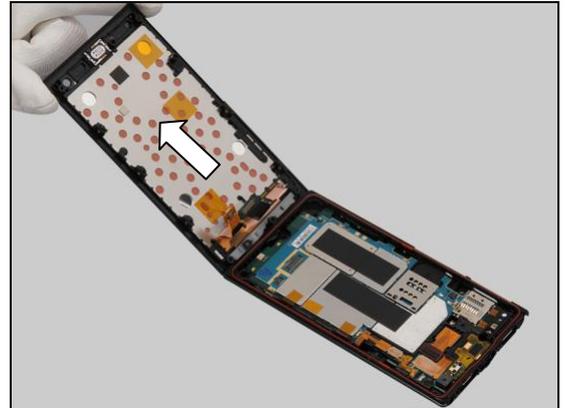
Do same to release the second BtB connector.

Be careful! Do not damage the components around the BtB connector!



Disassembly

Remove the Touch/Display Front Cover Assy.

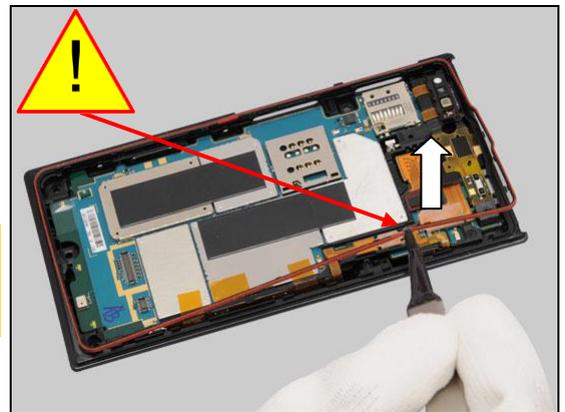


3.7 Gasket Main

Gently lift up the Gasket Main to remove it by using a Flex Film Assembly Tool as shown in picture.

Do not damage the Gasket Main!

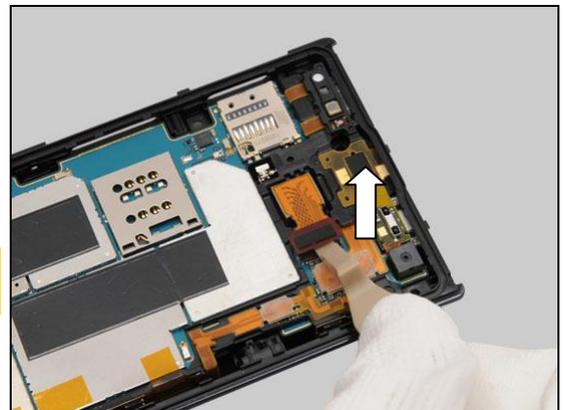
Make sure that the Gasket Main is clean, no dirt, particles and fiber attached on it!



3.8 Camera with the holder

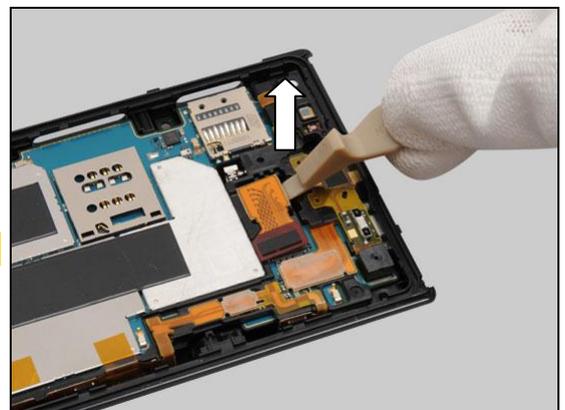
Disconnect the BtB connector by using a Front Opening Tool.

Be careful! Do not damage the components around the BtB connector!



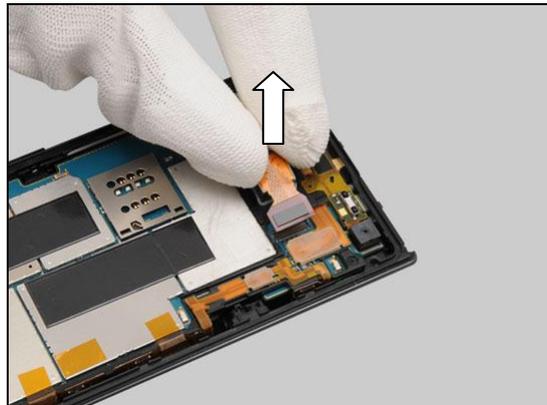
Insert the Front Opening Tool and gently pull upwards to release the Camera from the cavity.

Be careful! Do not damage the Camera!



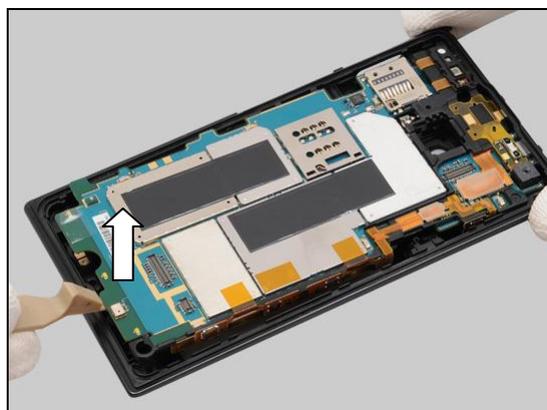
Disassembly

Remove it with fingers.

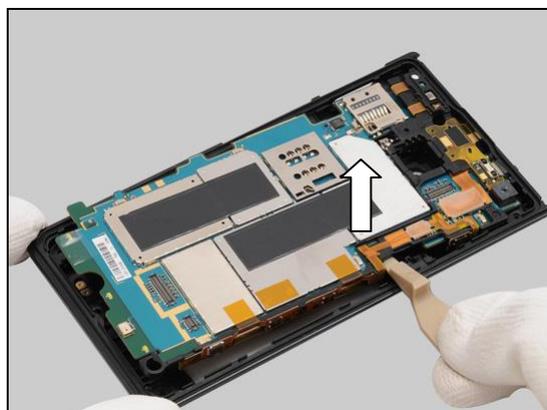


3.9 Rear Cover Assy

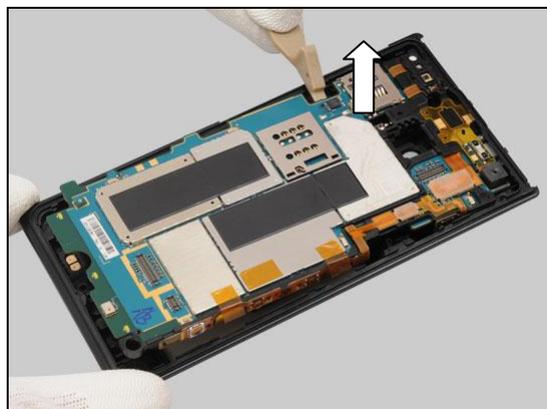
Insert a Front Opening Tool as shown in picture and gently pull upwards to release the hooks of PBA.



Do the same to release the hooks on this side.

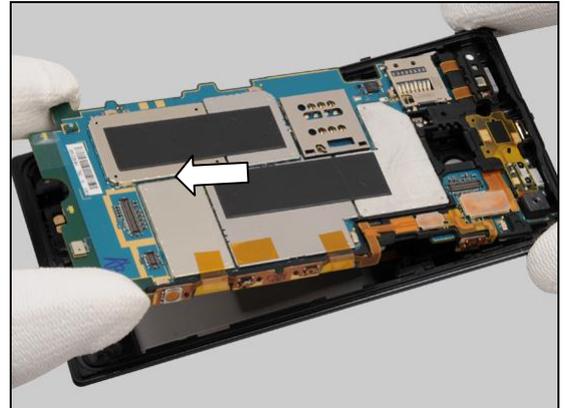


Do the same to release the hooks on opposite side.



Disassembly

Pull to release the PBA and remove the Rear Cover Assy as shown.



3.10 Spacer Felica & Sheet Key FPC & PBA Flex Module & PBA

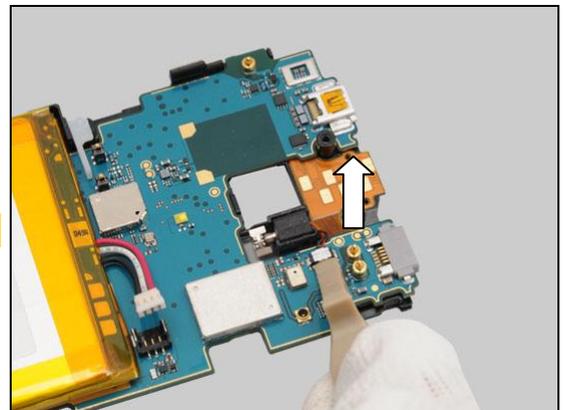
Turn the PBA over and disconnect the connector of Battery.

Be careful! Do not damage the connector!



Disconnect the connector of the Vibrator.

Be careful! Do not damage the connector!



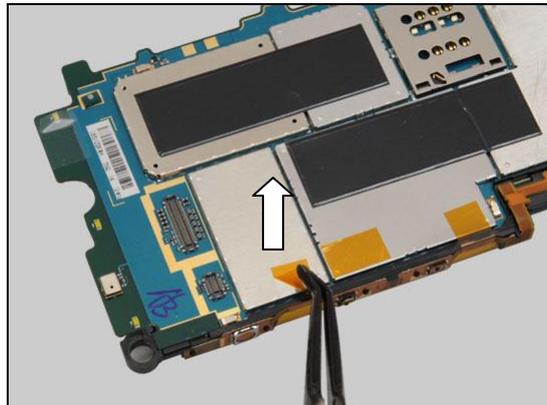
Gently pull upwards to remove the Spacer Felica with a Flex Film Assembly Tool.



Disassembly

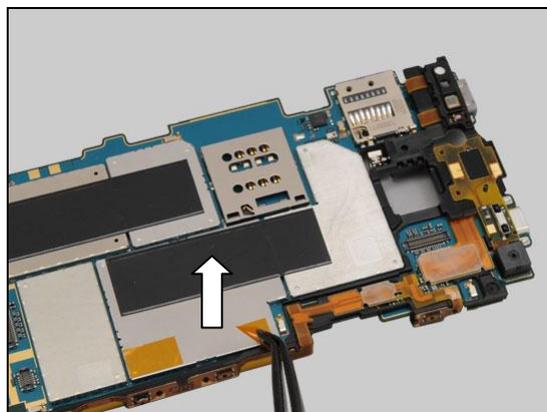
Turn the PBA over and gently peel off the Sheet Key FPC by using a Flex Film Assembly Tool.

Scrap! Not to be reused!



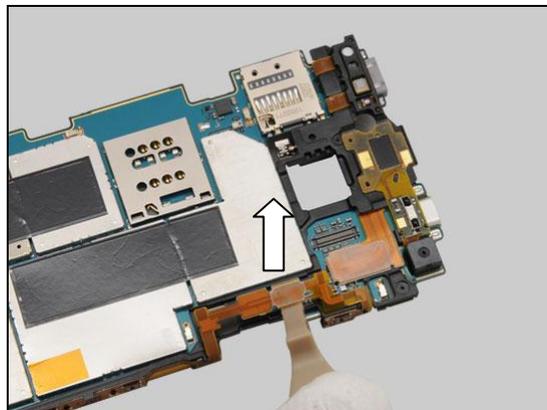
Do the same to remove the second Sheet Key FPC.

Scrap! Not to be reused!



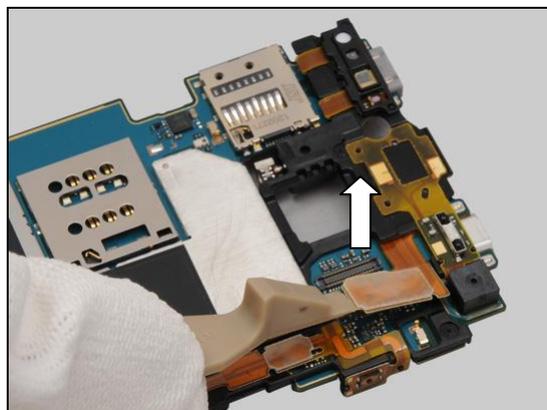
Disconnect the BtB connector by using a Front Opening Tool.

Be careful! Do not damage the components around the BtB connector!



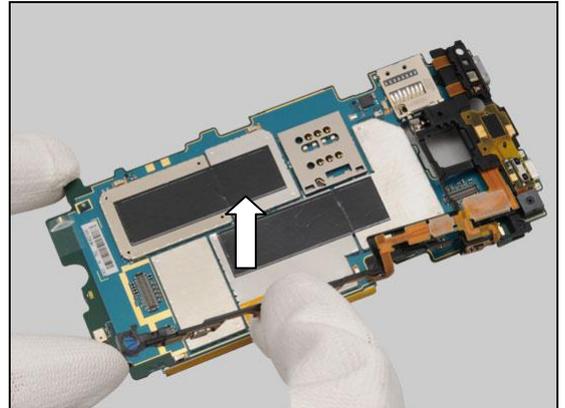
Disconnect the other BtB connector.

Be careful! Do not damage the components around the BtB connector!

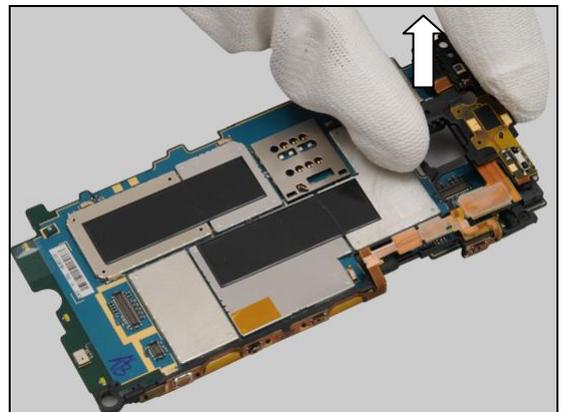


Disassembly

Gently pull outwards to release this side of the PBA Flex Module.



Remove the PBA Flex Module from this side as shown.



4 Replacement

4.1 SIM connector

Follow the 3.1 Disassembly instructions!

Prepare a new SIM Connector.

Follow the 5.10 Reassembly instructions!



4.2 Cover Bottom

Follow the 3.2 Disassembly instructions!

Prepare a new Cover Bottom.

Follow the 5.9 Reassembly instructions!

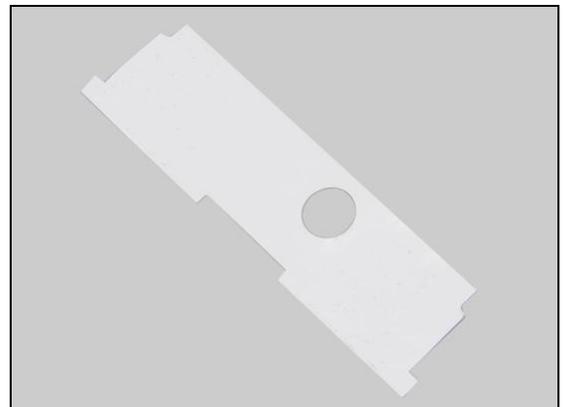


4.3 Core Unit Label

Follow the 3.2 – 3.3 Disassembly instructions!

Prepare a new Core Unit Label.

Follow the 5.8 – 5.9 Reassembly instructions!



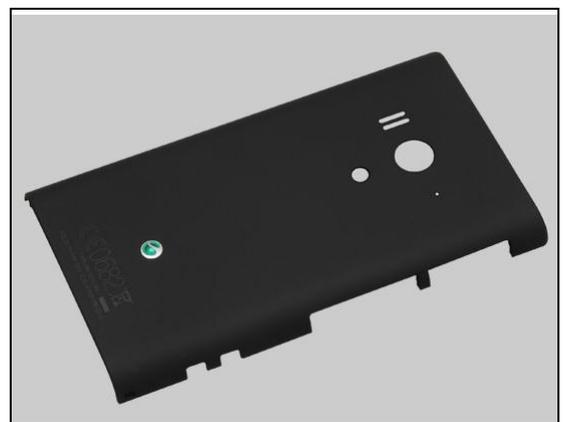
4.4 Cover Back

Follow the 3.2 – 3.4 Disassembly instructions!

Prepare a new Cover Back.

Follow the 5.7 – 5.9 Reassembly instructions!

Follow the 4.27 Installation instructions!



Replacement

4.5 Key Power

Follow the 3.2 – 3.5 Disassembly instructions!

Prepare a new Key Power.

Follow the 5.6 – 5.9 Reassembly instructions!



4.6 Key Volume

Follow the 3.2 – 3.5 Disassembly instructions!

Prepare a new Key Volume.

Follow the 5.6 – 5.9 Reassembly instructions!



4.7 Key Camera

Follow the 3.2 – 3.5 Disassembly instructions!

Prepare a new Key Camera.

Follow the 5.6 – 5.9 Reassembly instructions!



4.8 Charger PAD connector

Follow the 3.2 – 3.5 Disassembly instructions!

Prepare a new Charger PAD connector.

Follow the 5.6 – 5.9 Reassembly instructions!



Replacement

4.9 Cap SIM

Follow the 3.2 – 3.5 Disassembly instructions!

Prepare a new Cap SIM.

Follow the 5.6 – 5.9 Reassembly instructions!



4.10 Cap Micro SD

Follow the 3.2 – 3.5 Disassembly instructions!

Prepare a new Cap Micro SD.

Follow the 5.6 – 5.9 Reassembly instructions!



4.11 Cap Micro USB

Follow the 3.2 – 3.5 Disassembly instructions!

Prepare a new Cap Micro USB.

Follow the 5.6 – 5.9 Reassembly instructions!



4.12 Cap Audio Jack

Follow the 3.2 – 3.5 Disassembly instructions!

Prepare a new Cap Audio Jack.

Follow the 5.6 – 5.9 Reassembly instructions!



Replacement

4.13 Cap HDMI

Follow the 3.2 – 3.5 Disassembly instructions!

Prepare a new Cap HDMI.

Follow the 5.6 – 5.9 Reassembly instructions!



4.14 Touch/Display Front Cover Assy

Follow the 3.1 – 3.6 Disassembly instructions!

Follow the 4.28 Removal instructions!

Prepare a new Touch/Display Front Cover Assy.

Follow the 4.28 Installation instructions!

Follow the 5.5 – 5.10 Reassembly instructions!

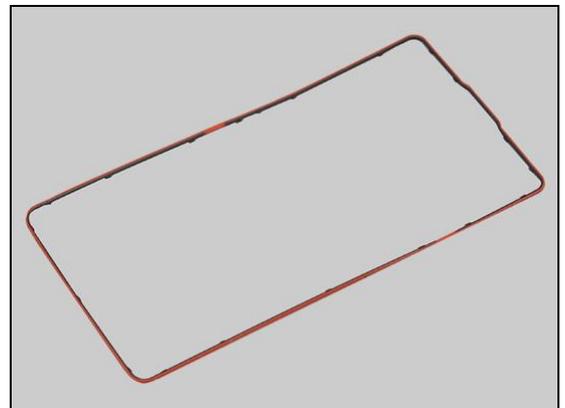


4.15 Gasket Main

Follow the 3.1 – 3.7 Disassembly instructions!

Prepare a new Gasket Main.

Follow the 5.4 – 5.10 Reassembly instructions!



4.16 Camera

Follow the 3.1 – 3.8 Disassembly instructions!

Follow the 4.24 Removal instructions!

Prepare a new Camera.

Follow the 4.24 Installation instructions!

Follow the 5.3 – 5.10 Reassembly instructions!



Replacement

4.17 Rear Cover Assy

Follow the 3.1 – 3.9 Disassembly instructions!

Follow the 4.20 Removal instructions!

Prepare a new Rear Cover Assy.

Follow the 4.20, 4.25, 4.26 and 4.34 Installation instructions!

Follow the 5.2 – 5.10 Reassembly instructions!



4.18 Spacer Felica

Follow the 3.1 – 3.10 Disassembly instructions!

Prepare a new Spacer Felica.

Follow the 5.1 – 5.10 Reassembly instructions!



4.19 PBA Flex Module

Follow the 3.1 – 3.10 Disassembly instructions!

Follow the 4.35 Removal instructions!

Prepare a new PBA Flex Module.

Follow the 4.35 Installation instructions!

Follow the 5.1 – 5.10 Reassembly instructions!



Replacement

4.20 Audio Jack & Foil Adhesive Audio Jack

Follow the 3.1 – 3.9 Disassembly instructions!

Carry out the Removal as described below.

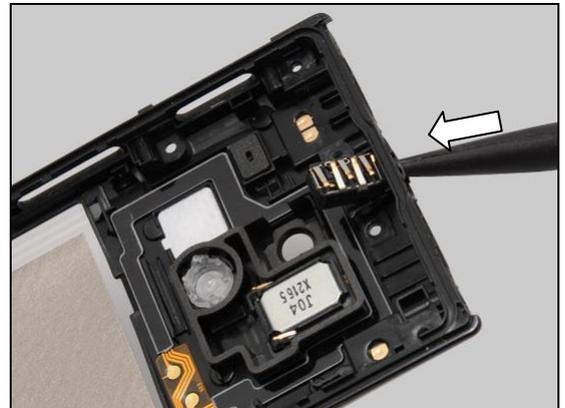
Prepare a new Audio Jack and a new Foil Adhesive Audio Jack.

Carry out the Installation as described below.

Follow the 5.2 – 5.10 Reassembly instructions!

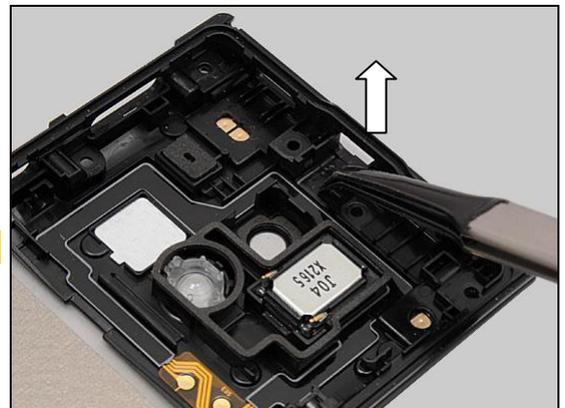
REMOVAL

Insert a Nylon Pointer into the hole of the Audio Jack and pull upwards to release it.



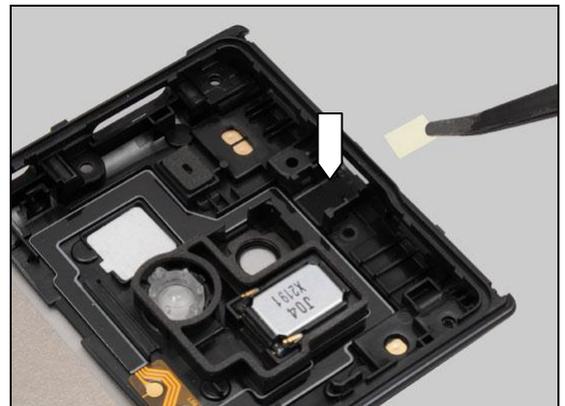
Peel off the Foil Adhesive Audio Jack by using a Flex Film Assembly Tool.

Scrap! Not to be reused.



INSTALLATION

Place a new Foil Adhesive Audio Jack into the socket.

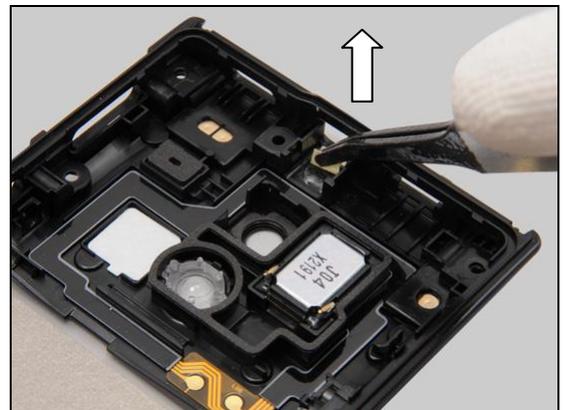


Replacement: Audio Jack & Foil Adhesive Audio Jack

Press to secure its attachment.



Peel off the protective film.

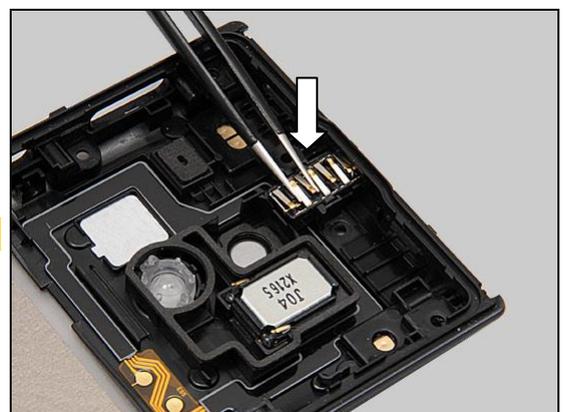


Place a new Audio Jack into the socket.



Press to secure its attachment.

Do not touch the contact pins!



Replacement

4.21 Battery & Foil Adhesive Battery

Follow the 3.1 – 3.10 Disassembly instructions!

Carry out the Removal as described below.

Prepare a new Battery and a new Foil Adhesive Battery.

Carry out the Installation as described below.

Follow the 5.1 – 5.10 Reassembly instructions!

Battery and Foil Adhesive Battery cannot be reused!

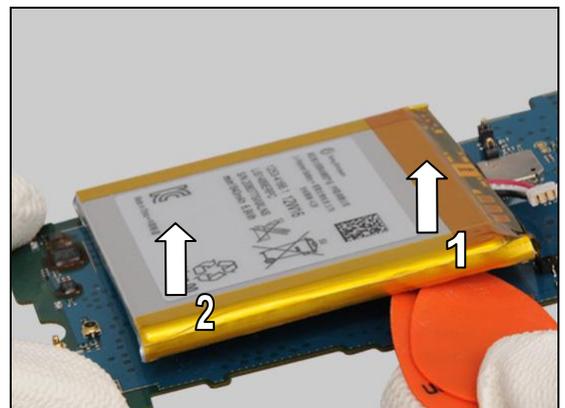
REMOVAL

Carefully slide and lift in below removal actions! Do not deform the PBA! Do not damage the components on the PBA!

Insert two Guitar Picks into the gap between the Battery and the PBA as shown and gently slide back and forth to detach the Battery.

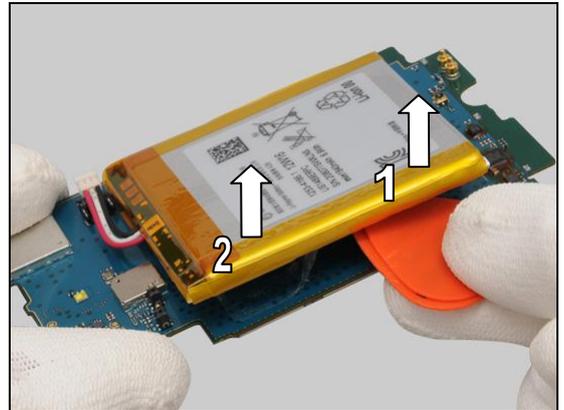
First insert one Guitar Pick to slide and gently lift upwards to make a gap between the Battery and the PBA on the opposite side, then insert two Guitar Picks and gently slide back and forth to release this side.

Gently lift upwards to release this side by using two Guitar Picks as shown.



Replacement: Battery & Foil Adhesive Battery

Do the same to the opposite side.

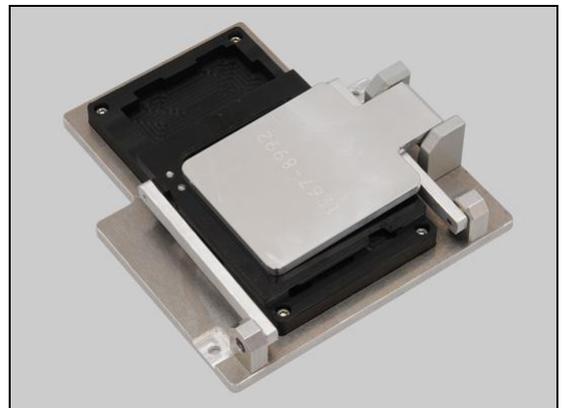


Remove the Battery.

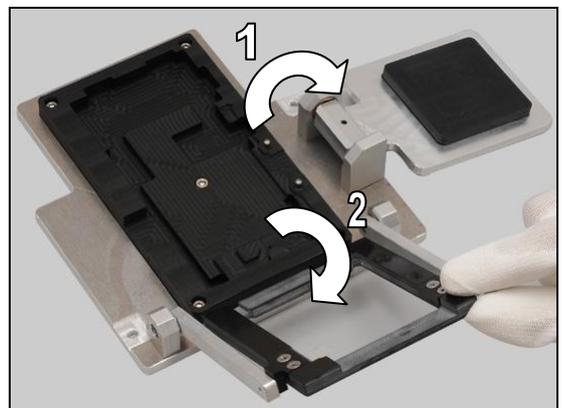


INSTALLATION

Prepare the Battery Press Insert.

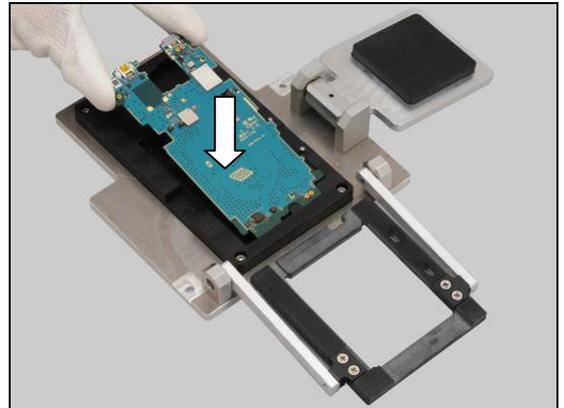


Open the tool.



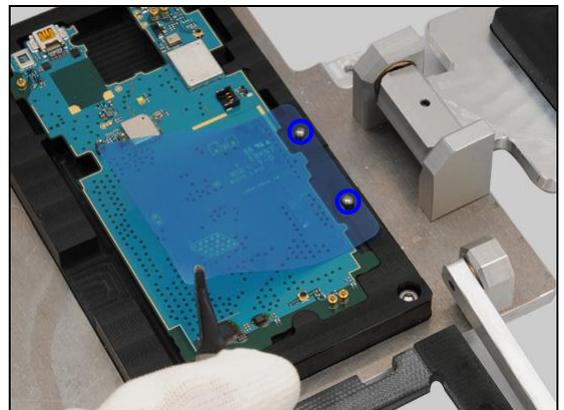
Replacement: Battery & Foil Adhesive Battery

Place the PBA in the cavity.

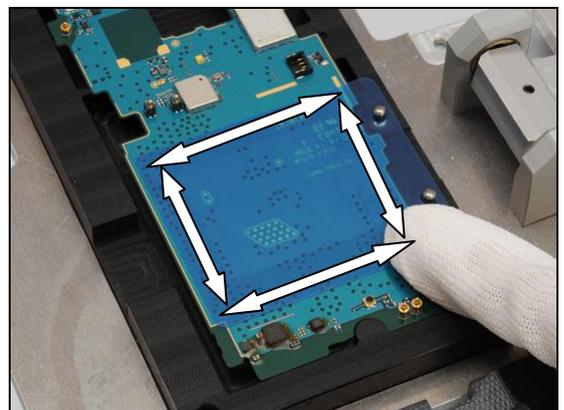


Clean the residues of adhesive before this action!

Prepare a new Foil Adhesive Battery and gently place it on the Battery Press Insert as indicated by the holes and location pins.

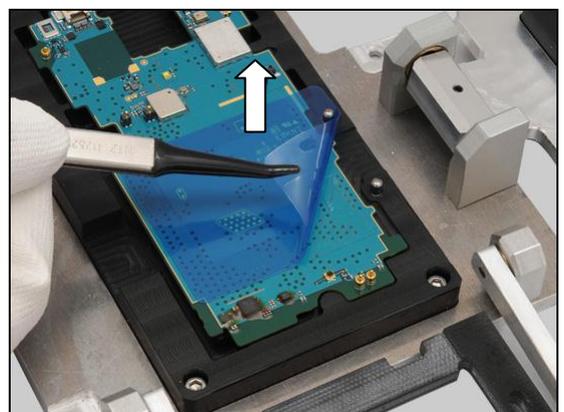


Press along to secure its attachment and position.



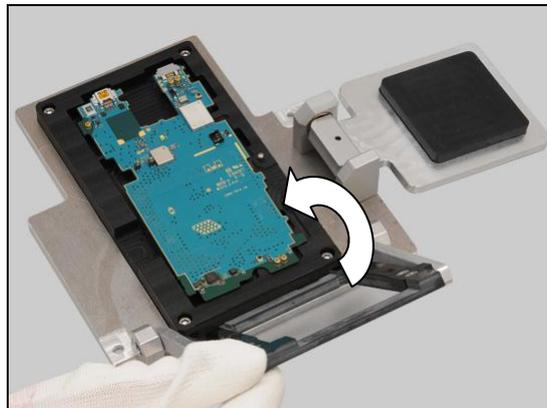
Peel off the protective film.

Be careful! Do not peel off Foil Adhesive Battery with the film.

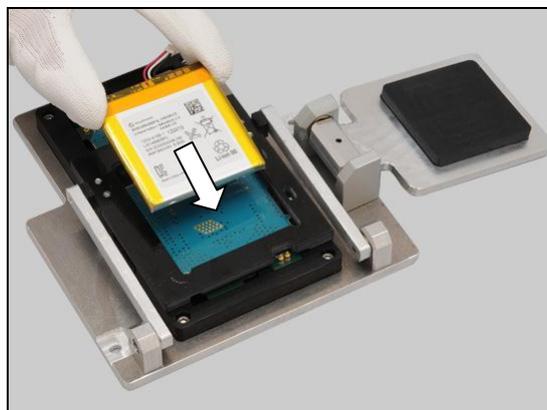


Replacement: Battery & Foil Adhesive Battery

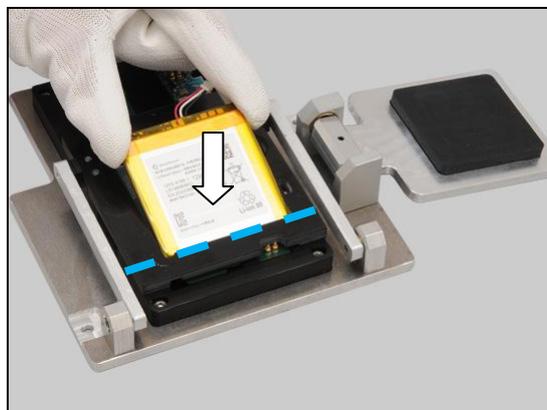
Turn it over.



Prepare a new Battery and insert it into the cavity as shown.



Securely place the Battery in the cavity in alignment with the tool as shown.

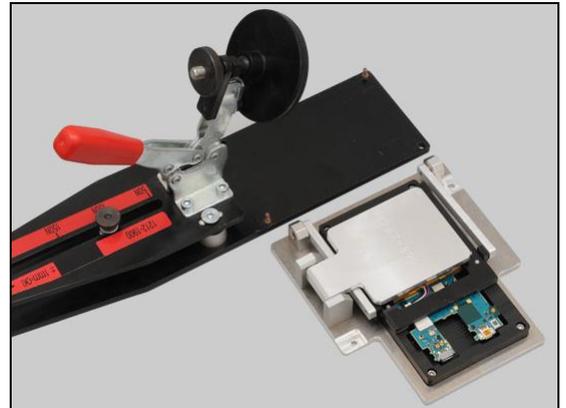


Close it.

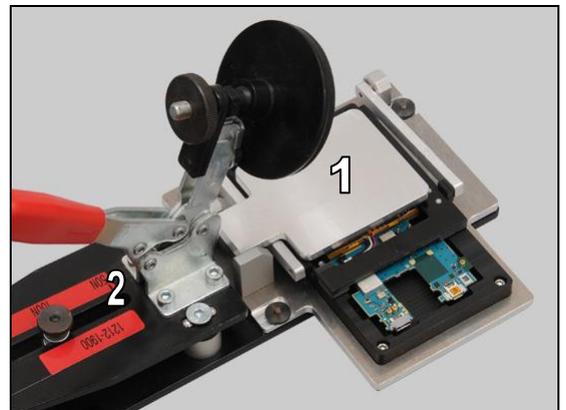


Replacement: Battery & Foil Adhesive Battery

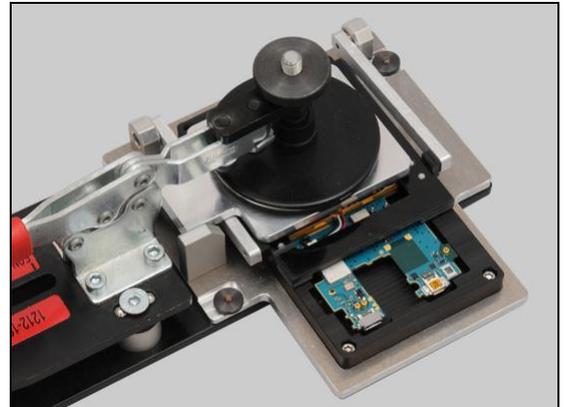
Prepare the Pressure Tool as shown.



Fasten the Battery Press Insert assembly (1) to the Pressure Tool (2).



Press it with a pressure value of 100N for 5 ± 1 seconds.



Make sure the Battery is securely attached.



Replacement

4.22 Ear Speaker & Foil Adhesive WP Receiver

Follow the 3.1 – 3.6 Disassembly instructions!

Carry out the Removal as described below.

Prepare a new Ear Speaker and a new Foil Adhesive WP Receiver.

Carry out the Installation as described below.

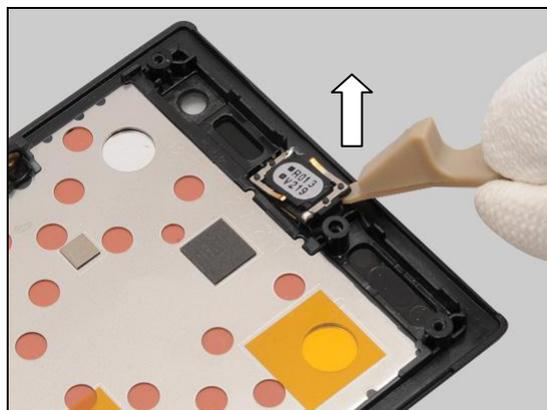
Follow the 5.5 – 5.10 Reassembly instructions!



REMOVAL

Detach to remove the Ear Speaker by using a Front Opening Tool.

Scrap! Not to be reused!

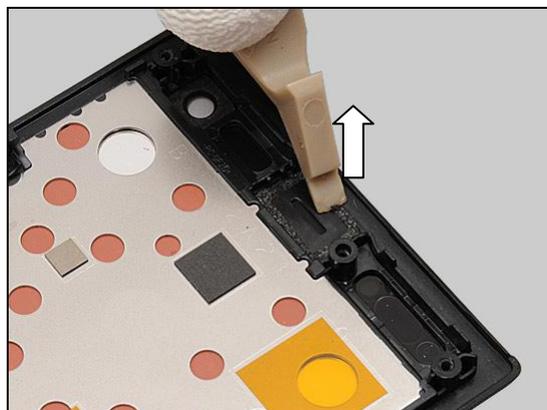


Detach to remove the Foil Adhesive WP Receiver by using a Front Opening Tool.

Scrap! Not to be reused!

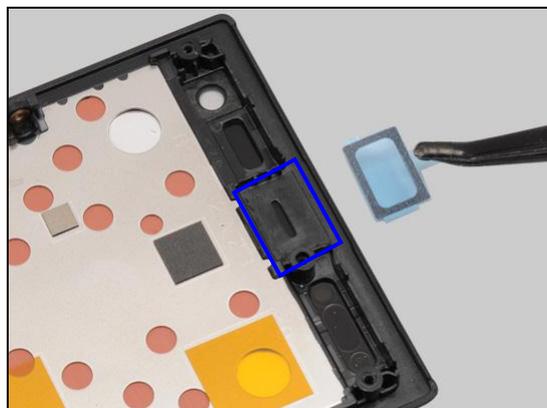
Make sure all remains have been removed!

Do not scratch the plastic surface!



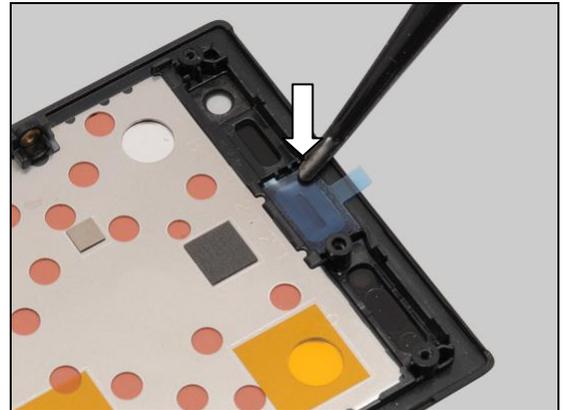
INSTALLATION

Place a new Foil Adhesive WP Receiver in the cavity.

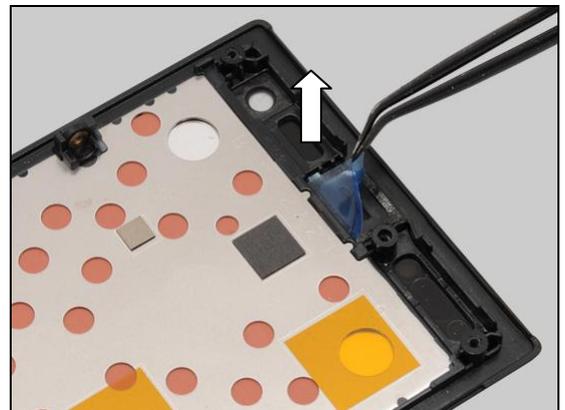


Replacement: Ear Speaker and Foil Adhesive WP Receiver

Press along to secure its attachment.

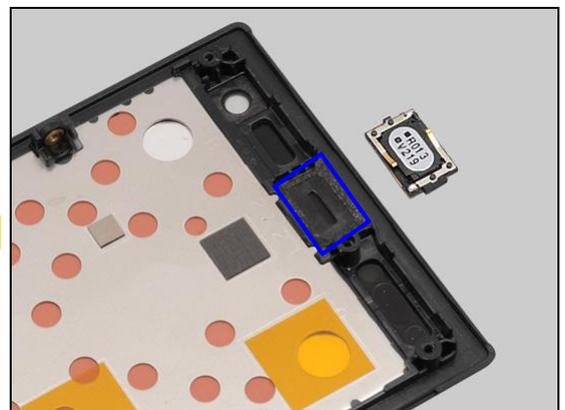


Gently peel off the protective film.

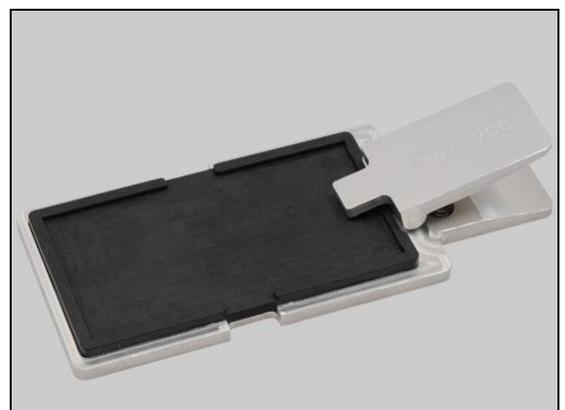


Place a new Ear Speaker in the cavity.

Note the orientation of the Ear Speaker to be installed!

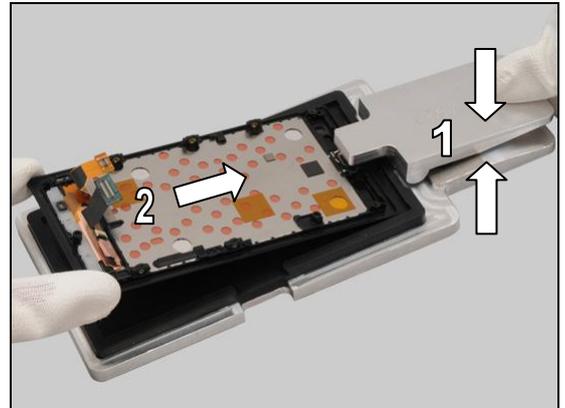


Prepare the Press Tool Earspeaker.



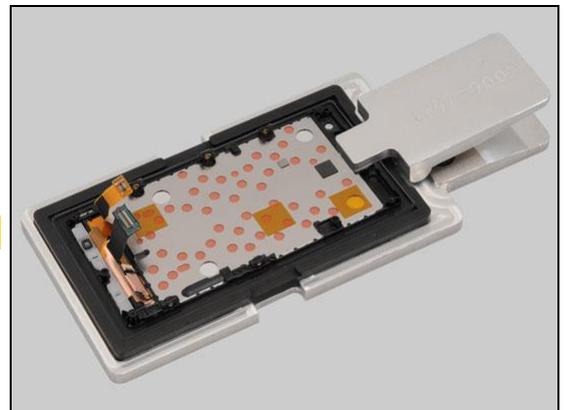
Replacement: Ear Speaker and Foil Adhesive WP Receiver

Hold the clip and insert the Touch/Display Front Cover Assy into the cavity.

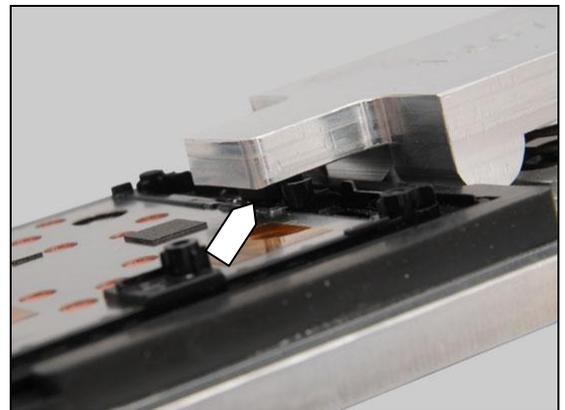


Loosen the clip to press the Ear Speaker for 5 ± 1 seconds.

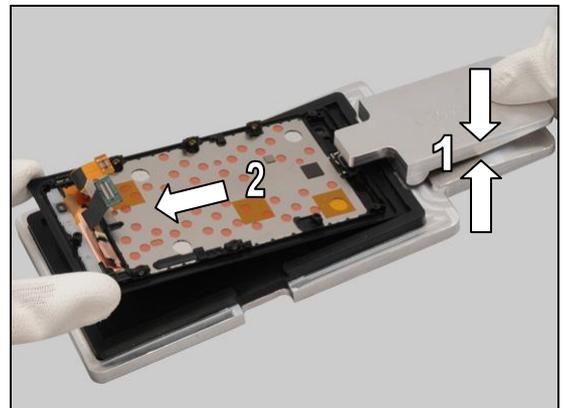
Do not press the clip!



The rubber of the tool presses the Ear Speaker when pressing as shown.



Press the clip and remove the Touch/Display Front Cover Assy.



Replacement

4.23 Gasket Dot Connector

Follow the 3.1 – 3.6 Disassembly instructions!
Carry out the Removal as described below.
Prepare a new Gasket Dot Connector.
Carry out the Installation as described below.
Follow the 5.5 – 5.10 Reassembly instructions!

REMOVAL

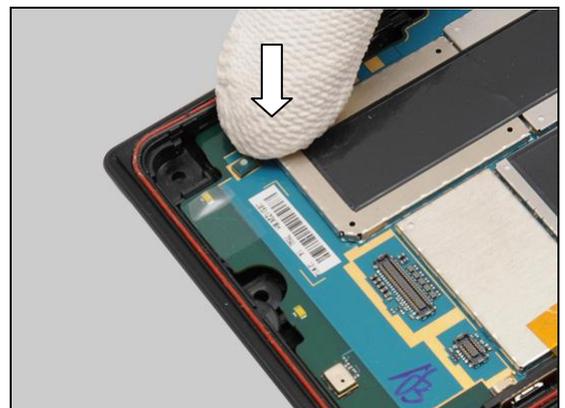
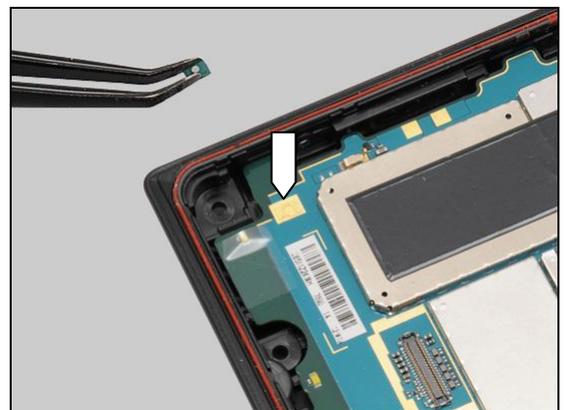
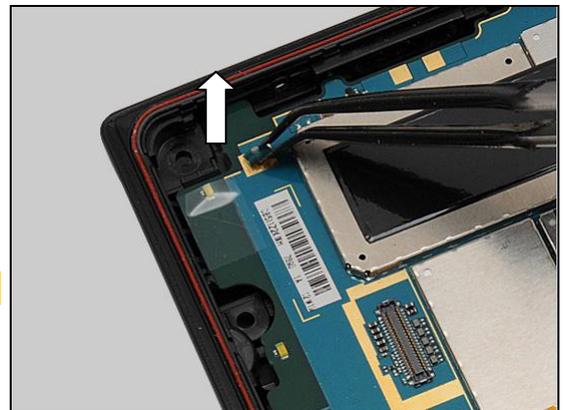
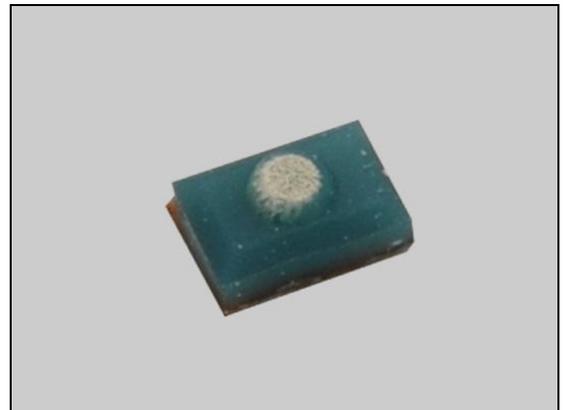
Detach to remove the Gasket Dot Connector by using a Flex Film Assembly Tool.

Scrap! Not to be reused!

INSTALLATION

Place a new Gasket Dot Connector on its proper position as indicated by the golden area.

Press to secure its attachment.



Replacement

4.24 Holder Camera

Follow the 3.1 – 3.8 Disassembly instructions!
Carry out the Removal as described below.
Prepare a new Holder Camera.
Carry out the Installation as described below.
Follow the 5.3 – 5.10 Reassembly instructions!

REMOVAL

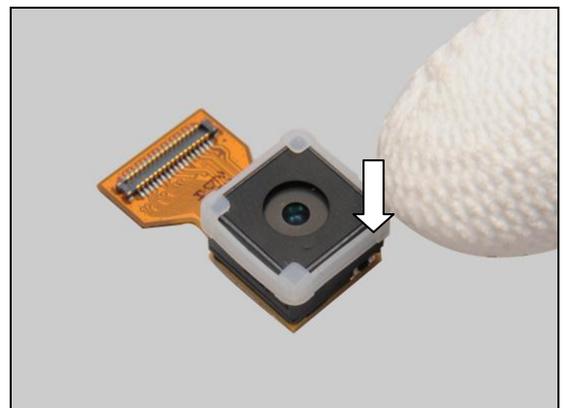
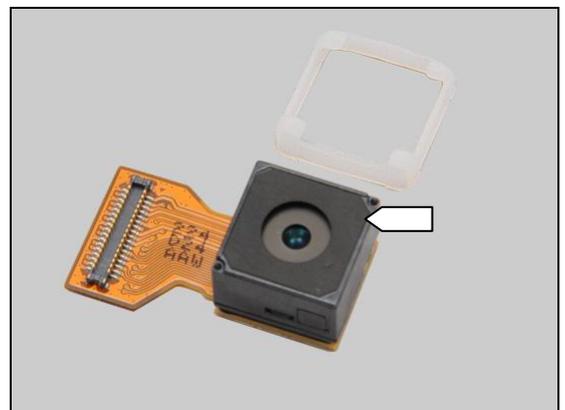
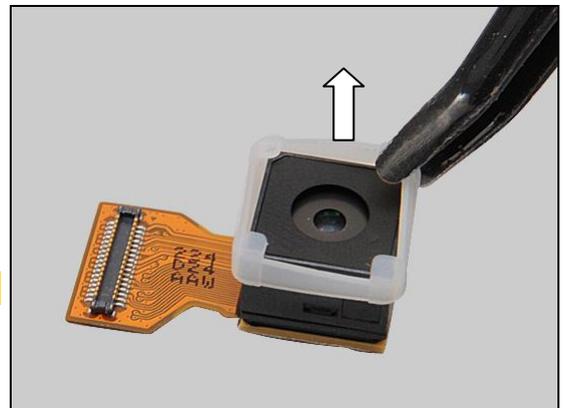
Remove the Holder Camera by using a Flex Film Assembly Tool.

Do not touch the camera lens!

INSTALLATION

Place a new Holder Camera on the Camera.

Press along to secure its attachment.



Replacement

4.25 Key Gasket (for Key Power & Key Camera)

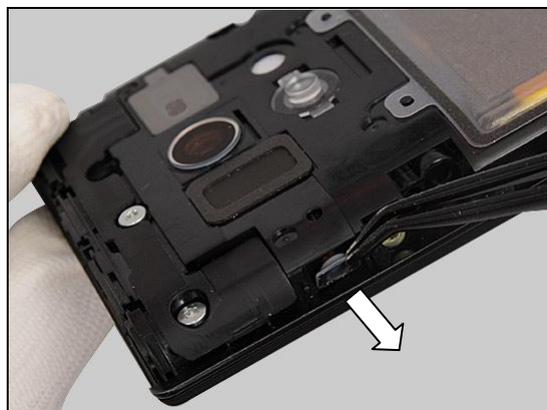
Follow the 3.1 – 3.5 Disassembly instructions!
Carry out the Removal as described below.
Prepare a new Key Gasket.
Carry out the Installation as described below.
Follow the 5.6 – 5.10 Reassembly instructions!

REMOVAL

Detach to remove the Key Gasket by using a Flex Film Assembly Tool.

Scrap! Not to be reused!

Do not damage the plastic surface!



INSTALLATION

Use an air gun to clean the hole of the Key Gasket!

Do not damage the sealing rubber of the Key Gasket when mounting!

Make sure that the Key Gasket is clean and no dirt, particles and fiber attached on it! Otherwise replace a new one.

Place a new Key Gasket on its proper position.



Press to secure its solid attachment.

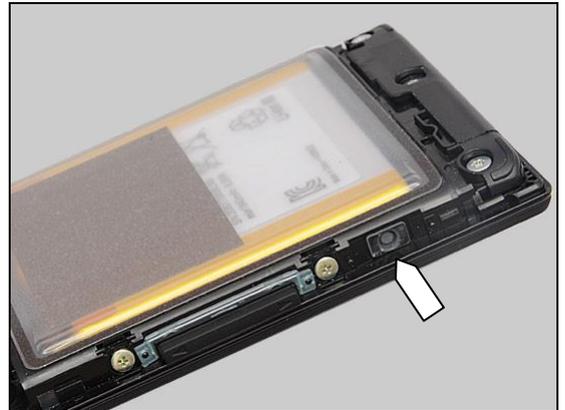
Do not touch the central area of the Key Gasket!

Make sure the key gasket solid attachment onto plastic surface, no floating and no damaging!



Replacement: Key Gasket

Do the same to replace the Key Gasket of the Key Camera.



Replacement

4.26 Key Gasket (for Key Volume)

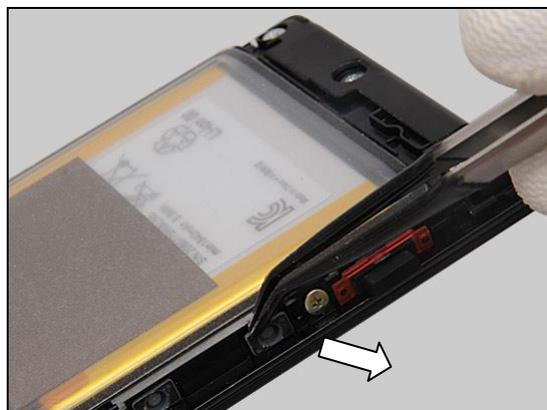
Follow the 3.1 – 3.5 Disassembly instructions!
Follow the 4.34 Removal instructions!
Carry out the Removal as described below.
Prepare a new Key Gasket.
Carry out the Installation as described below.
Follow the 4.34 Key Installation instructions!
Follow the 5.6 – 5.10 Reassembly instructions!

REMOVAL

Detach to remove the Key Gasket by using a Flex Film Assembly Tool.

Scrap! Not to be reused!

Do not damage the plastic surface!



INSTALLATION

Use an air gun to clean the hole of the Key Gasket!

Do not damage the sealing rubber of the Key Gasket when mounting!

Make sure that the Key Gasket is clean and no dirt, particles and fiber attached on it! Otherwise replace a new one.

Place a new Key Gasket on its proper position.

Press to secure its solid attachment.

Do not touch the central area of the Key Gasket!

Make sure the key gasket solid attachment onto plastic surface, no floating and no damaging!



Replacement: Key Gasket

Do the same to replace the other one.



Replacement

4.27 Label NFC

Carry out the Removal as described below.
Prepare a new Label NFC.
Carry out the Installation as described below.

REMOVAL

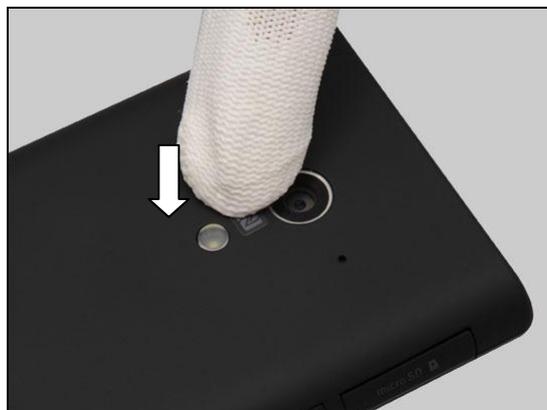
Gently detach to remove the Label NFC by using a Flex Film Assembly Tool.

Scrap! Not to be reused!
Do not damage the Cover Back!

INSTALLATION

Place a new Label NFC on the correct position.

Press to secure its attachment.



Replacement

4.28 Lightguide Key Sub Assy

Follow the 3.1 – 3.6 Disassembly instructions!
Carry out the Removal as described below.
Prepare a new Lightguide Key Sub Assy.
Carry out the Installation as described below.
Follow the 5.5 – 5.10 Reassembly instructions!

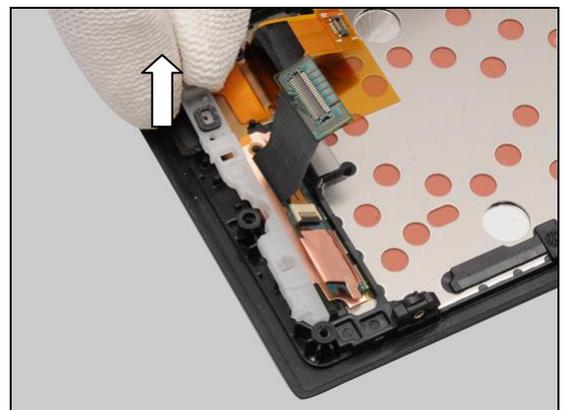
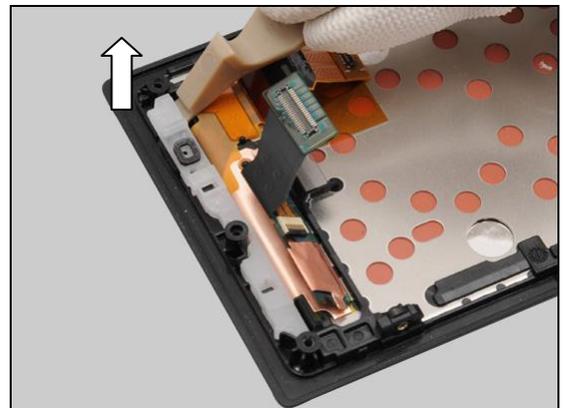
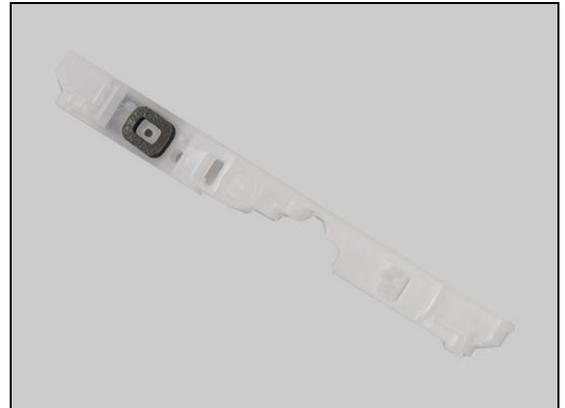
REMOVAL

Insert a Front Opening Tool as shown and gently Lift upwards to release the hook of the Lightguide Key Sub Assy.

Lift upwards to remove it with fingers.

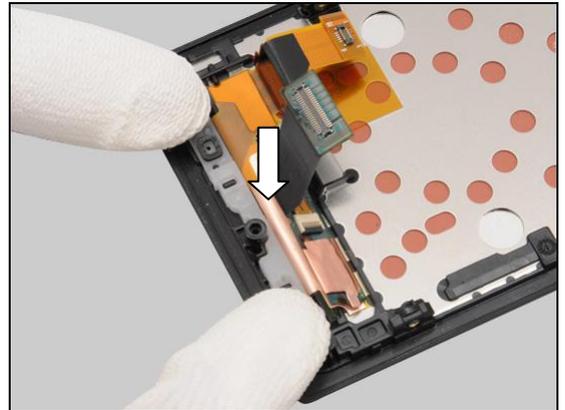
INSTALLATION

Place a new Lightguide Key Sub Assy in the cavity.



Replacement: Lightguide Key Sub Assy

Press to secure its attachment.



Replacement

4.29 Loudspeaker & Foil Adhesive WP Speaker

Follow the 3.1 – 3.9 Disassembly instructions!

Carry out the Removal as described below.

Prepare a new Loudspeaker and a new Foil Adhesive WP Speaker.

Carry out the Installation as described below.

Follow the 5.2 – 5.10 Reassembly instructions!



REMOVAL

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

Scrap! Not to be reused!



Detach to remove the Foil Adhesive WP Speaker by using a Front Opening Tool.

Scrap! Not to be reused!

Make sure all remains have been removed!

Do not scratch the plastic surface!

Do not damage speaker box cushion and battery film on the Rear Cover Assy in this action!



INSTALLATION

Place a new Foil Adhesive WP Speaker into the socket.



Replacement: Loudspeaker & Foil Adhesive WP Speaker

Press to secure its attachment.

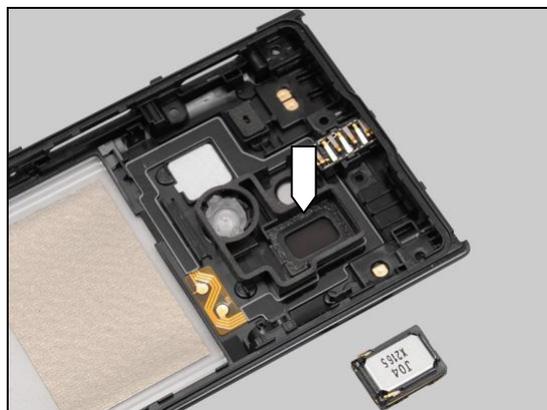


Peel off the protective film.



Place a new Loudspeaker into the cavity.

Note the orientation of the Loudspeaker to be installed!



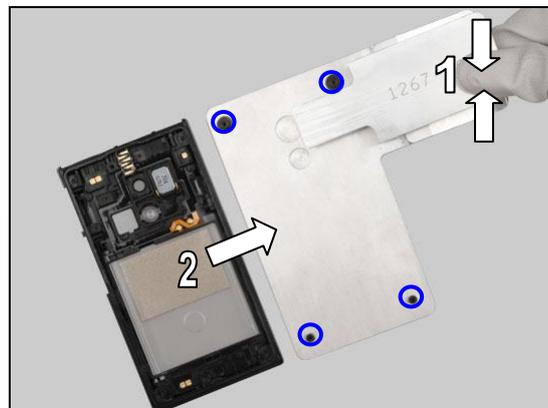
Prepare the Press Tool Loudspeaker.



Replacement: Loudspeaker & Foil Adhesive WP Speaker

Hold the clip and locate the Rear Cover Assy by using 4 pins on the tool and 4 screw holes on the Rear Cover Assy.

Make sure the tool is clean and not to damage the battery film!

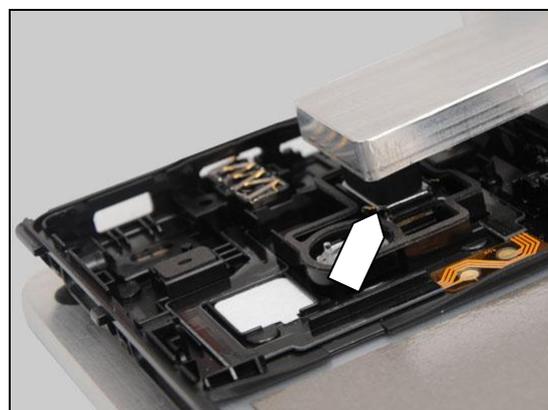


Loosen the clip to press the Loudspeaker for 5 ± 1 seconds.

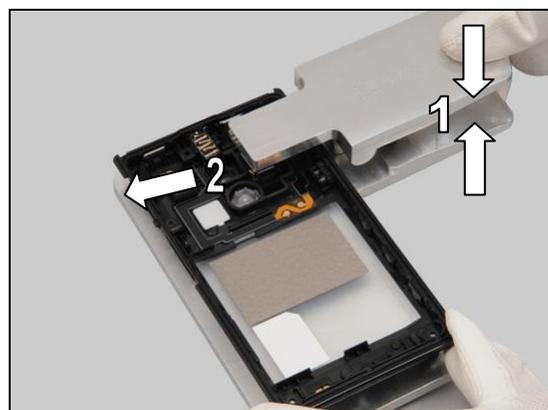
Do not press the clip!



The rubber of the tool presses the Loudspeaker when pressing as shown.



Press the clip and remove the Rear Cover Assy.



Replacement

4.30 Net Speaker

Follow the 3.2 – 3.4 Disassembly instructions!

Carry out the Removal as described below.

Prepare a new Net Speaker.

Carry out the Installation as described below.

Follow the 5.7 – 5.9 Reassembly instructions!

REMOVAL

Detach to remove the Net Speaker by using a Flex Film Assembly Tool.

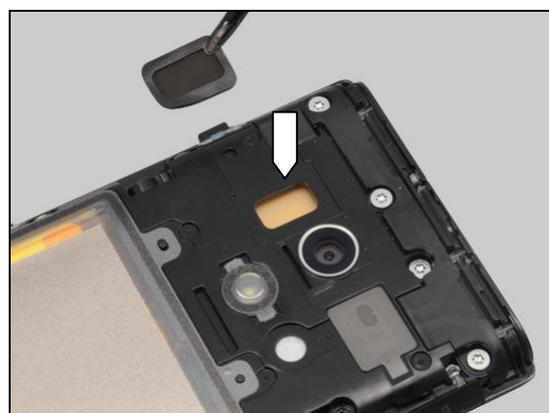
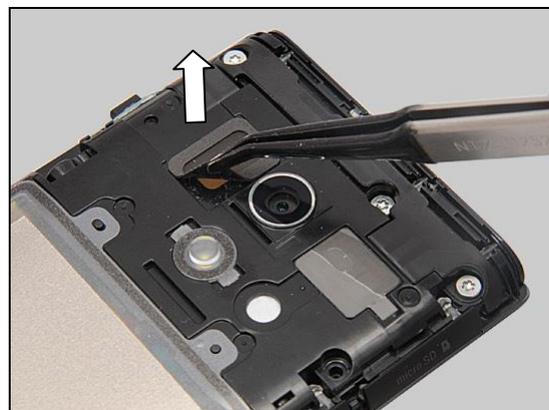
Scrap! Not to be reused!

Make sure that all remains have been removed!

INSTALLATION

Place a new Net Speaker on its proper position.

Press along to secure its position.



Replacement

4.31 Sheet Key FPC (on the PBA Flex Module)

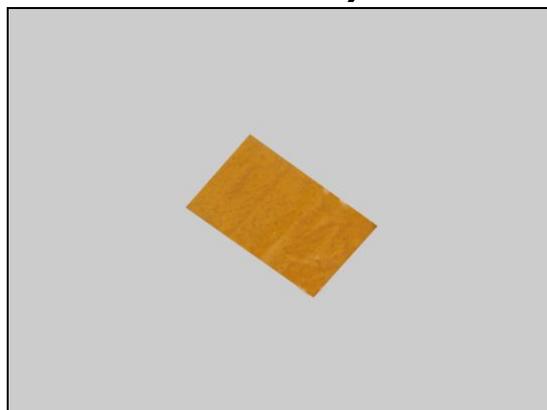
Follow the 3.1 – 3.10 Disassembly instructions!

Carry out the Removal as described below.

Prepare a new Sheet Key FPC.

Carry out the Installation as described below.

Follow the 5.1 – 5.10 Reassembly instructions!



Replacement

4.32 Sheet Key FPC (on board)

Follow the 3.1 – 3.6 Disassembly instructions!
Carry out the Removal as described below.
Prepare a new Sheet Key FPC.
Carry out the Installation as described below.
Follow the 5.5 – 5.10 Reassembly instructions!

REMOVAL

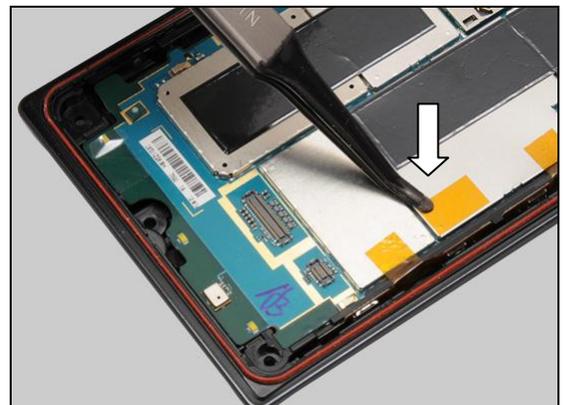
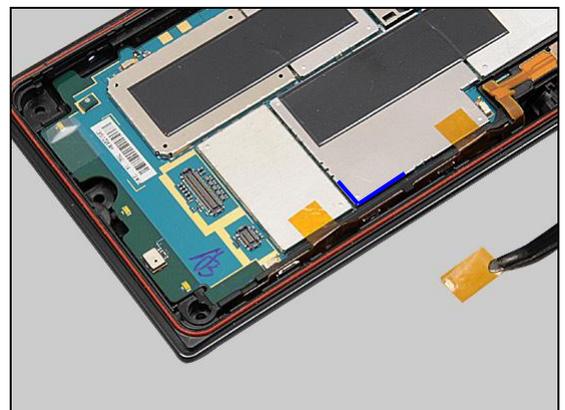
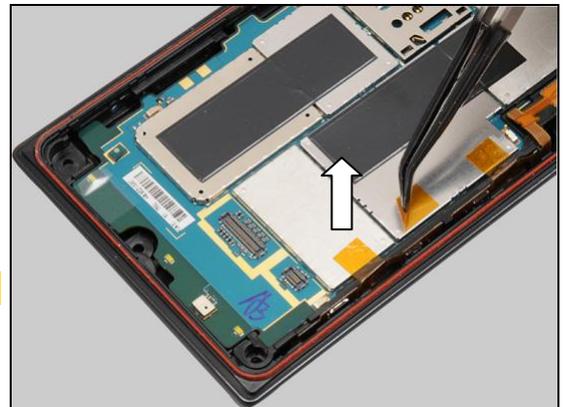
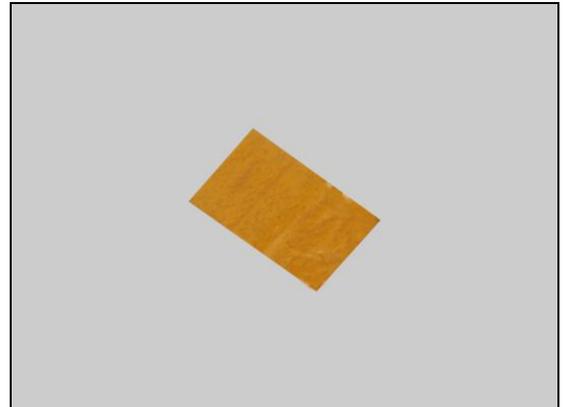
Gently peel off the Sheet Key FPC by using a Flex Film Assembly Tool.

Scrap! Not to be reused!

INSTALLATION

Place a new Sheet Key FPC on the PBA as indicated by the blue lines.

Press along to secure its attachment.



Replacement

4.33 Sheet LED

Follow the 3.1 – 3.6 Disassembly instructions!

Carry out the Removal as described below.

Prepare a new Sheet LED.

Carry out the Installation as described below.

Follow the 5.5 – 5.10 Reassembly instructions!

REMOVAL

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

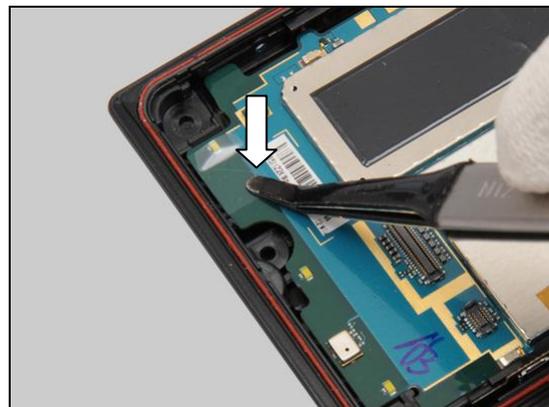
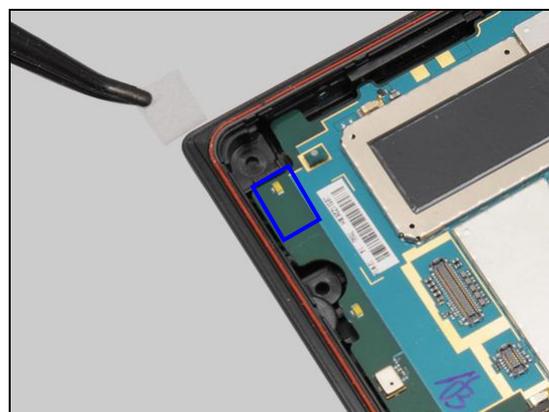
Scrap! Not to be reused!

Do not damage the LED!

INSTALLATION

Place a new Sheet LED aligning by the blue rectangle.

Press along to secure its attachment.



Replacement

4.34 Sheet Volume Key

Follow the 3.2 – 3.5 Disassembly instructions!
Carry out the Removal as described below.
Prepare a new Sheet Volume Key.
Carry out the Installation as described below.
Follow the 5.6 – 5.9 Reassembly instructions!

REMOVAL

Gently peel off the Sheet Volume Key by using a Flex Film Assembly Tool.

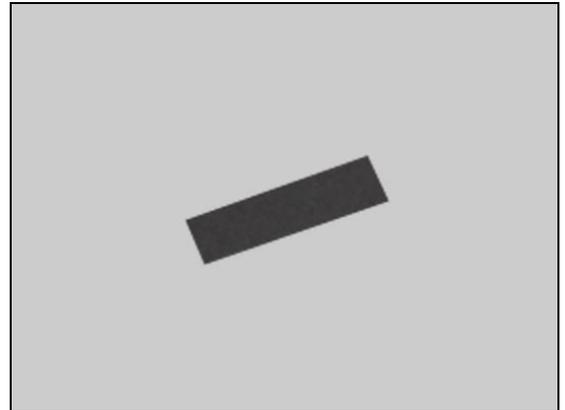
Scrap! Not to be reused!

Do not damage the Key Gasket!

INSTALLATION

Place a new Sheet Volume Key aligning by the blue rectangle.

Press along to secure its attachment.



Replacement

4.35 Vibrator

Follow the 3.1 – 3.10 Disassembly instructions!

Carry out the Removal as described below.

Prepare a new Vibrator.

Carry out the Installation as described below.

Follow the 5.1 – 5.10 Reassembly instructions!

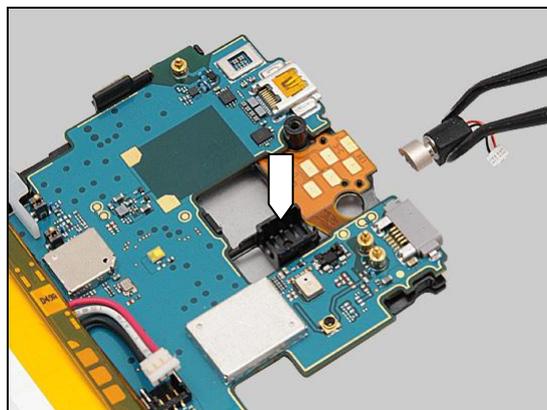
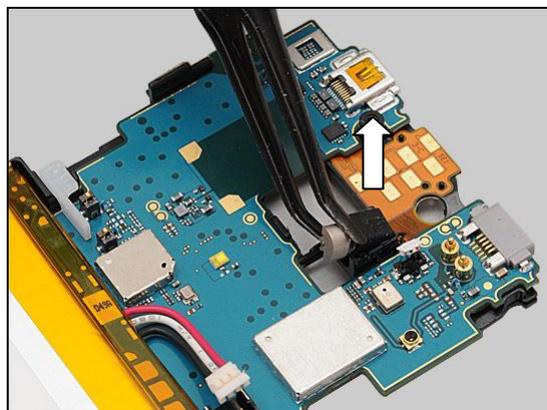
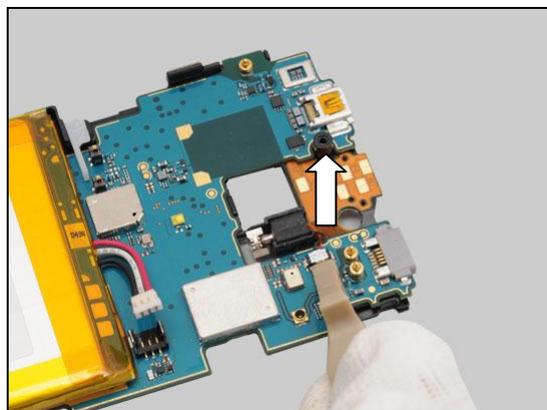
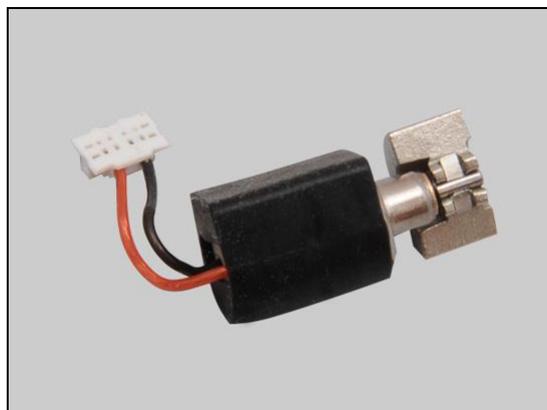
REMOVAL

Disconnect the connector of the Vibrator.

Remove it.

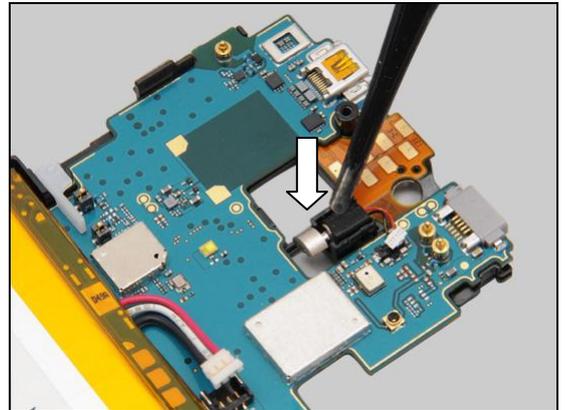
INSTALLATION

Place a new Vibrator in the socket.

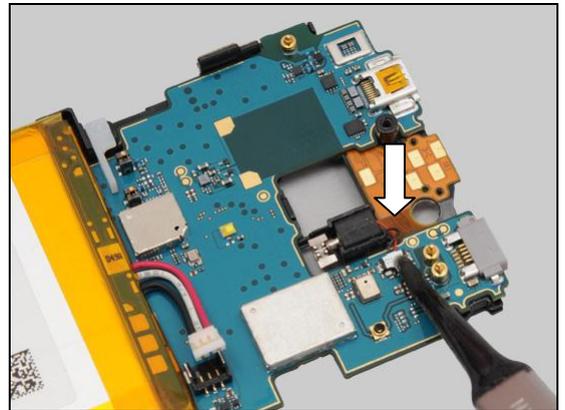


Replacement: Vibrator

Press it to the bottom of the socket.



Snap the connector.



Replacement

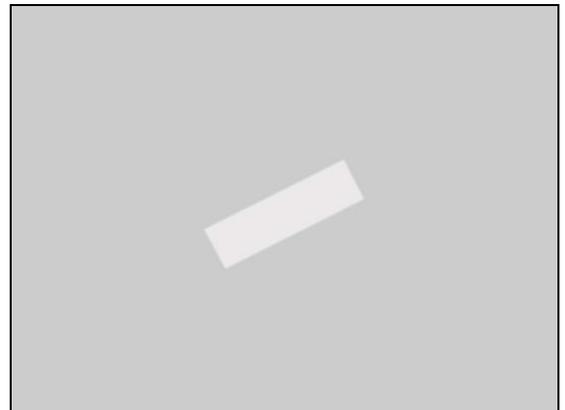
4.36 Water Indicator

Carry out the Removal as described below.
Prepare a new Water Indicator.
Carry out the Installation as described below.

REMOVAL

Pull upwards to release the Cap Micro SD with fingers.

Do not touch the sealing rubber of the Cap Micro SD!
Make sure that the Cap Micro SD is clean, no dirt, particles and fiber attached on it!



Detach to remove the Water Indicator as shown.

Scrap! Not to be reused!



INSTALLATION

Attach a new Water Indicator on the correct position as shown and press to secure its attachment.



Replacement: Water Indicator

**Use an air gun to clean the Cap Micro SD and its hole!
Do not touch the sealing rubber of the Cap Micro SD!
Make sure that the Cap Micro SD is clean and no dirt,
particles and fiber attached on it! Otherwise replace a
new one.**

Turn it over.



Press to snap the Cap Micro SD.



Do the same to the other Water Indicator.



Replacement

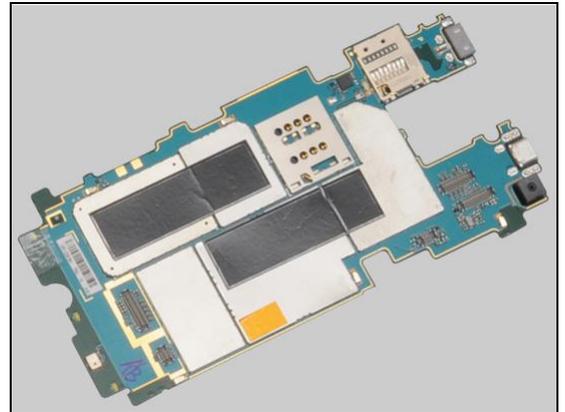
4.37 Board Swap - Replacement

Follow the 3.1 – 3.10 Disassembly instructions!

Replace the Swap Board.

Follow the 4.21 Installation instructions!

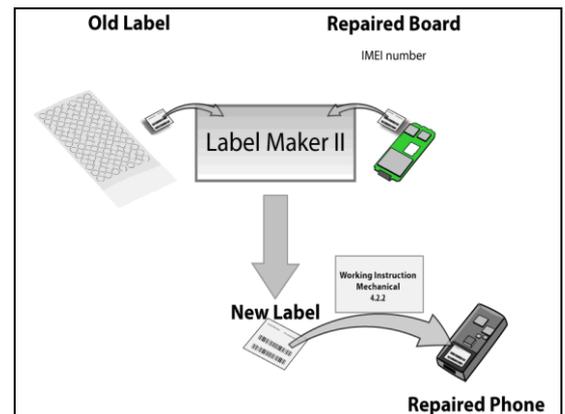
Follow the 5.1 – 5.10 Reassembly instructions!



4.38 Board Swap – Change Label

CHANGE LABEL

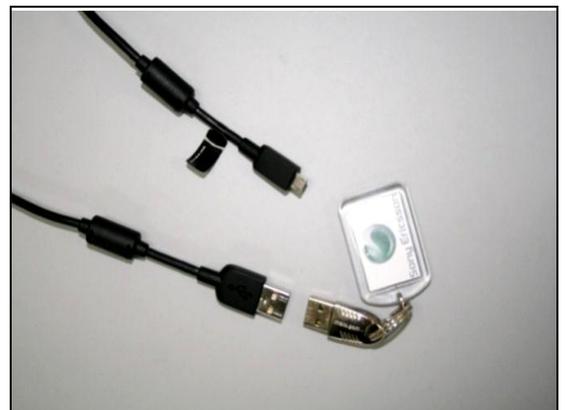
Follow the instructions in the Generic Repair Manual – Build swap for change of label.



4.39 Board Swap – Customize of Software

CUSTOMIZE OF SOFTWARE

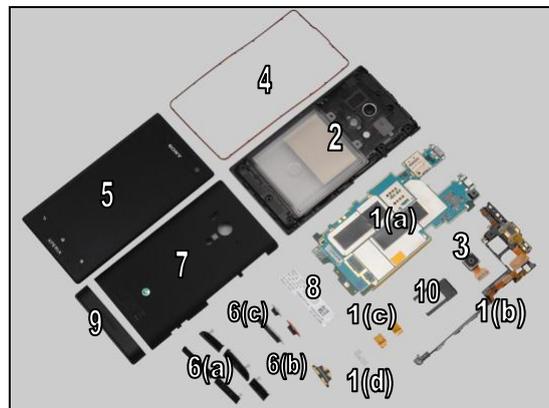
Follow the instructions in the Generic Repair Manual – Build swap for customization of the software.



5 Reassembly

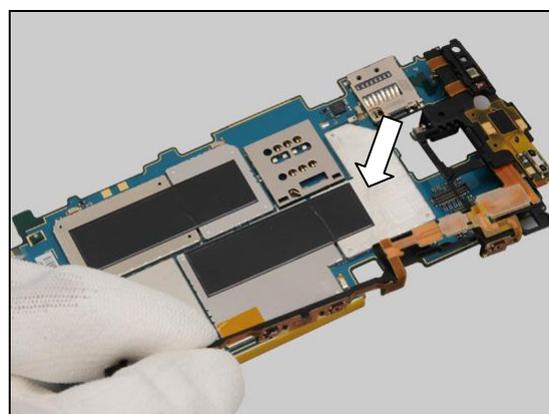
The reassembly is done in the following order:

1. PBA (a) & PBA Flex Module (b) & Sheet Key FPC (c) & Spacer Felica (d)
2. Rear Cover Assy
3. Camera with the holder
4. Gasket Main
5. Touch/Display Front Cover Assy
6. Caps (a) & Charger PAD connector (b) & Keys (c)
7. Cover Back
8. Core Unit Label
9. Cover Bottom
10. SIM Connector

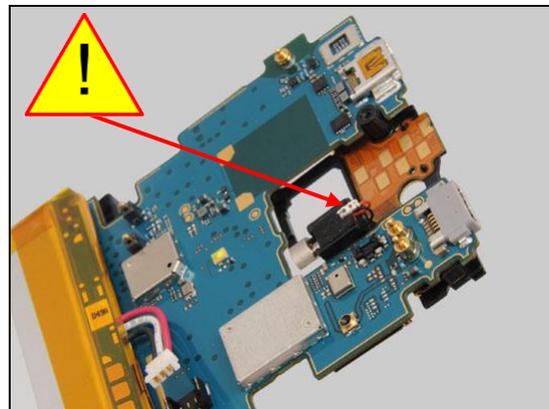


5.1 PBA & PBA Flex Module & Sheet Key FPC & Spacer Felica

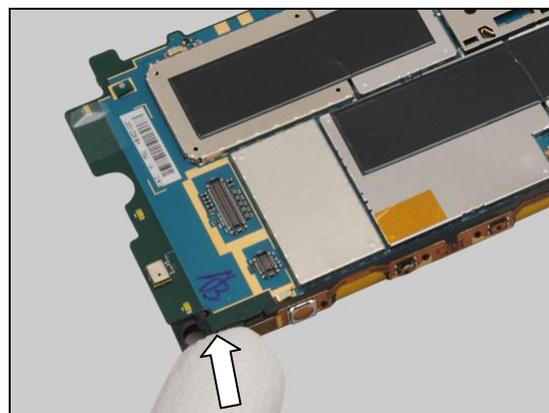
Place the PBA Flex Module onto the PBA as shown in picture.



Make sure the Vibrator connector is NOT between the PBA Flex Module and the PBA!

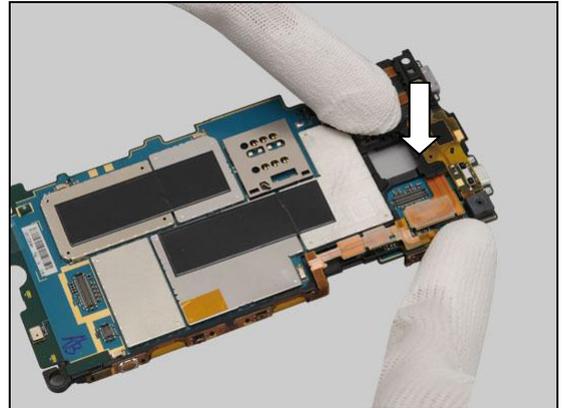


Press to secure its position of this side.

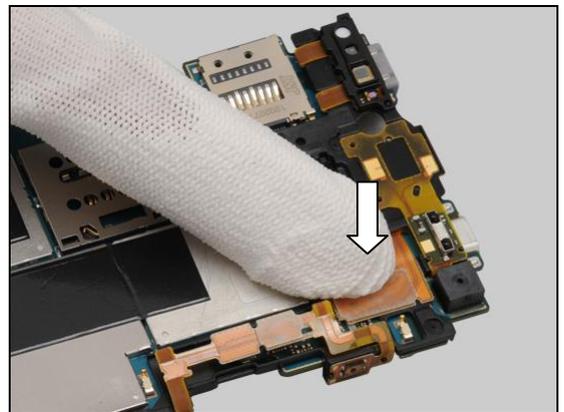


Reassembly

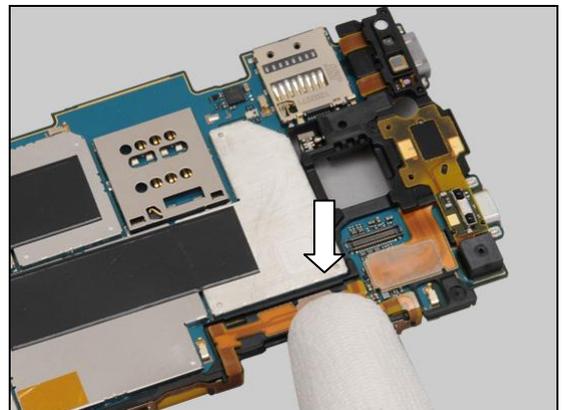
Press to secure its position.



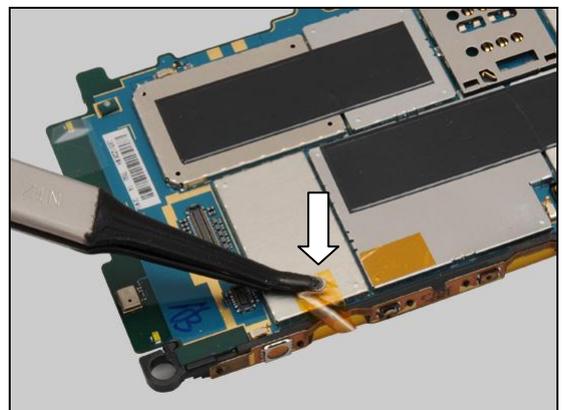
Press to snap the BtB connector.



Press to snap the other BtB connector.

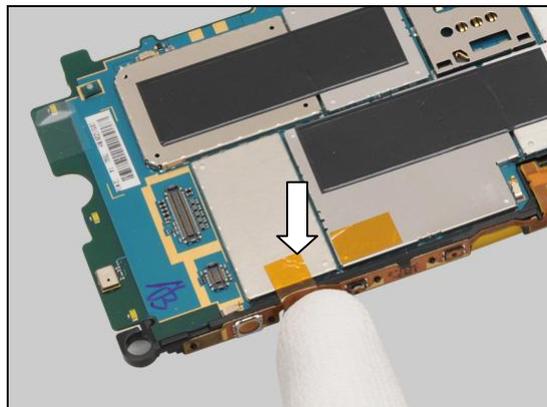


Attach a new Sheet Key FPC on its proper position as shown.

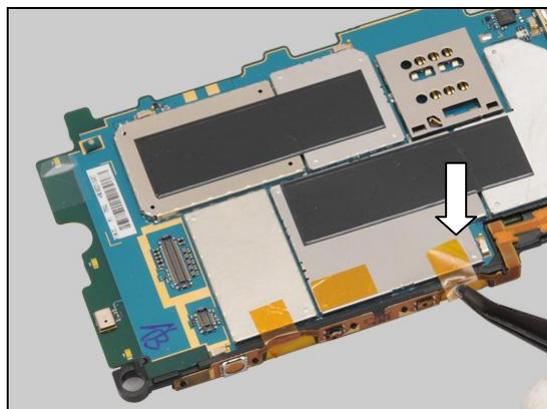


Reassembly

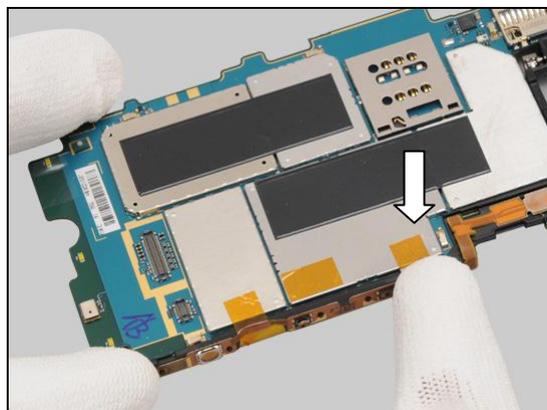
Press to secure its attachment and position.



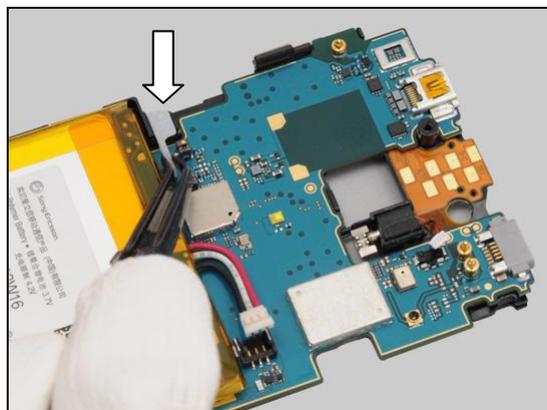
Do the same to attach a new Sheet Key FPC on its proper position as shown in picture.



Press to secure its attachment and position.

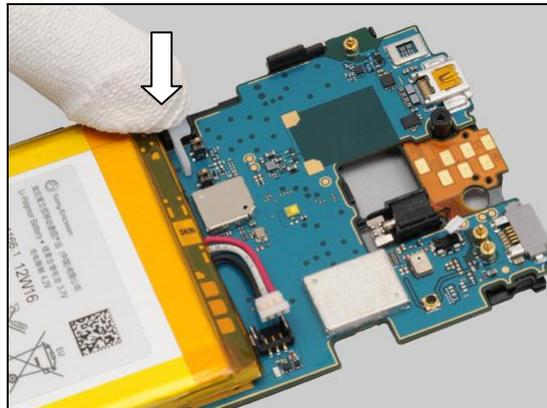


Turn the PBA over and gently insert the Spacer Felica in the cavity.

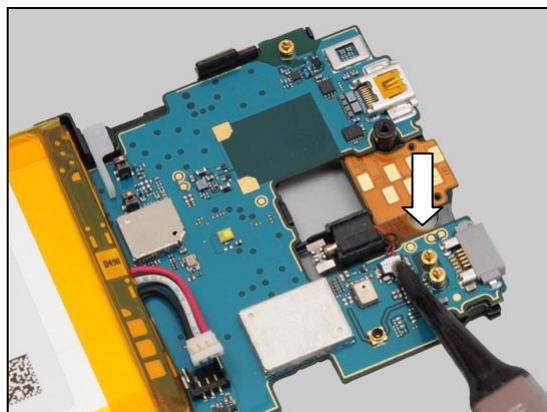


Reassembly

Press to secure its position.



Press to snap the BtB connector of Vibrator.

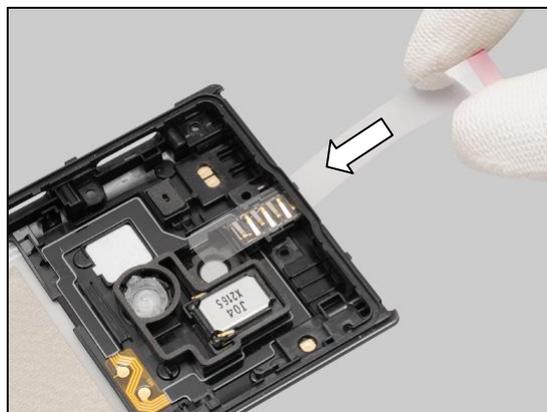


Press to snap the BtB connector of Battery.



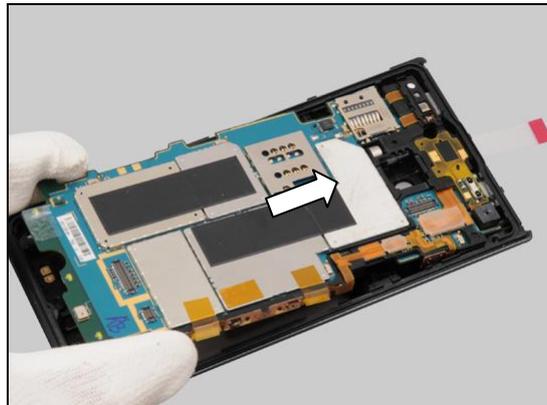
5.2 Rear Cover Assy

Prepare the Rear Cover Assy and insert a film into the hole as shown to protect Audio Jack pins.

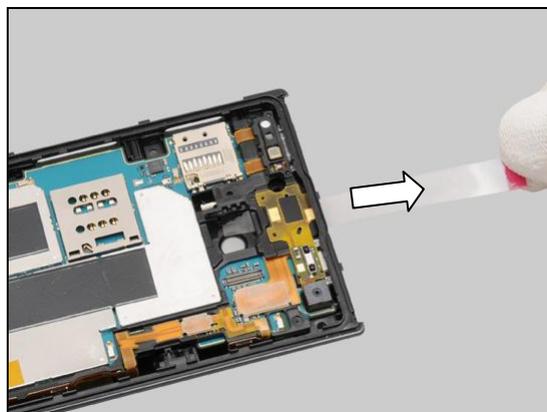


Reassembly

Securely place the PBA onto the Rear Cover Assy.

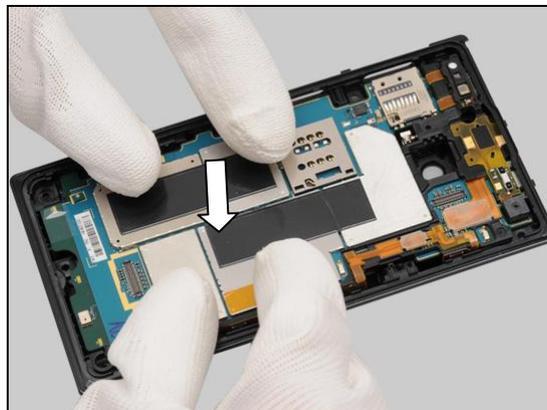


Gently pull out the film.



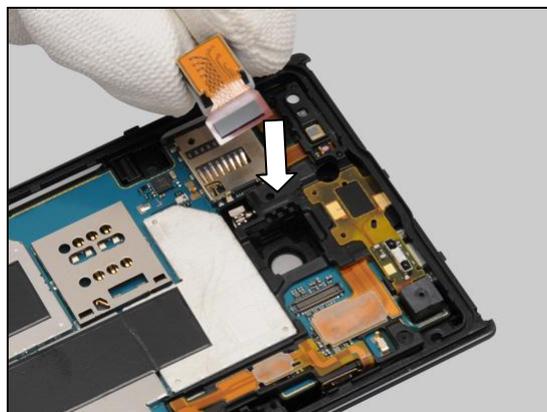
Press to snap the hooks of the PBA.

Make sure the desk is clean and flat in order to protect battery film!



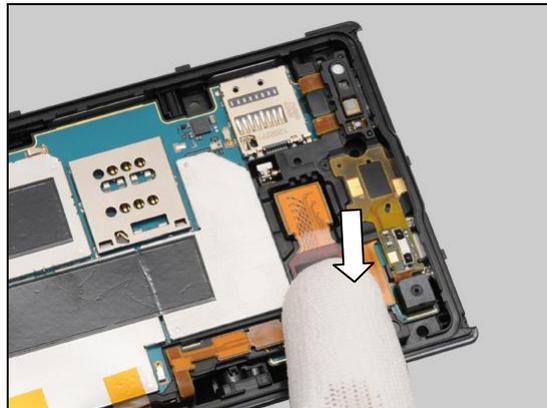
5.3 Camera with the holder

Securely place the Camera in the cavity as shown in picture.

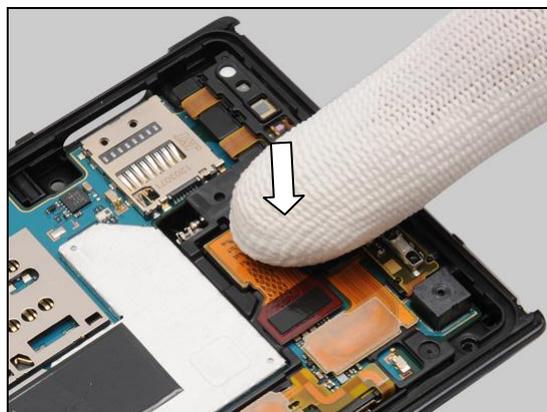


Reassembly

Press to snap the BtB connector.



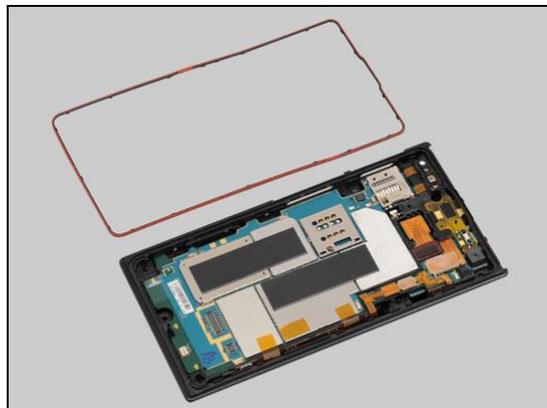
Press this side to secure its position.



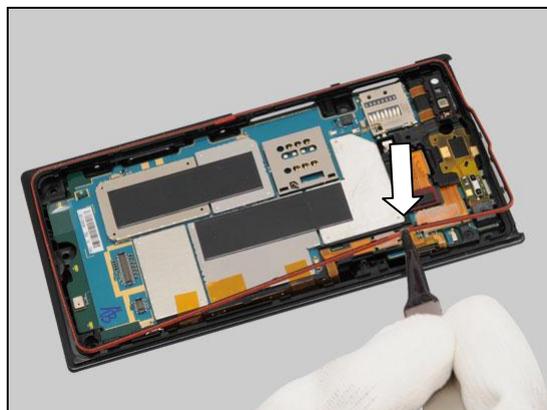
5.4 Gasket Main

Prepare the Gasket Main.

**Use an air gun to clean the Gasket Main and its cavity!
Make sure that the Gasket Main is clean and no dirt,
particles and fiber attached on it! Otherwise replace a
new one.**

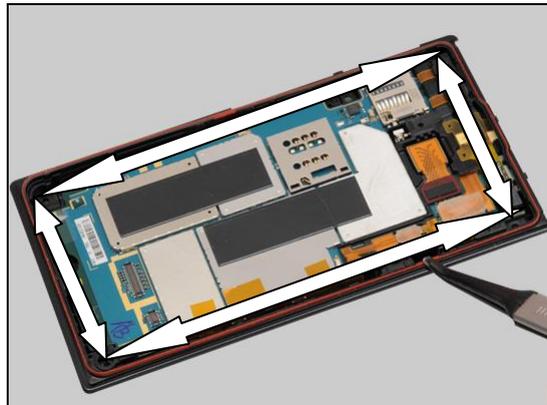


Securely place the Gasket Main in the cavity as shown in picture.



Reassembly

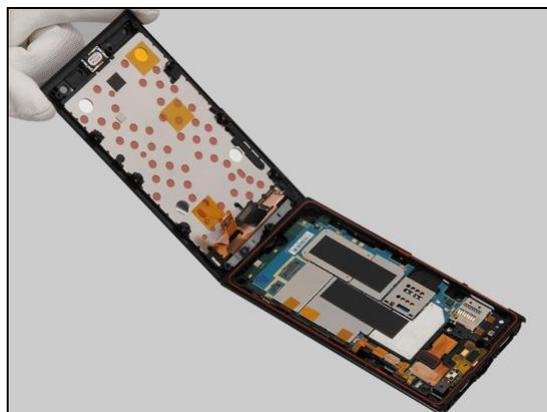
Gently press along to secure its in cavity.



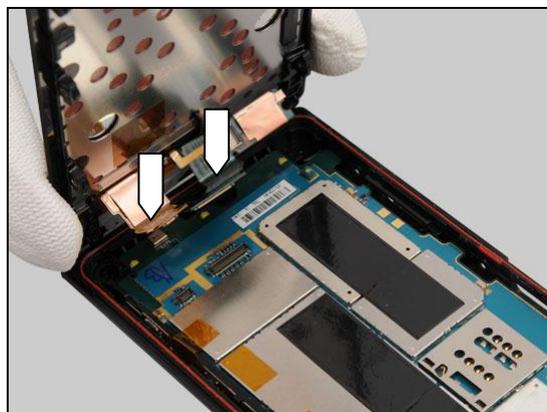
5.5 Touch/Display Front Cover Assy

Prepare the Touch/Display Front Cover Assy.

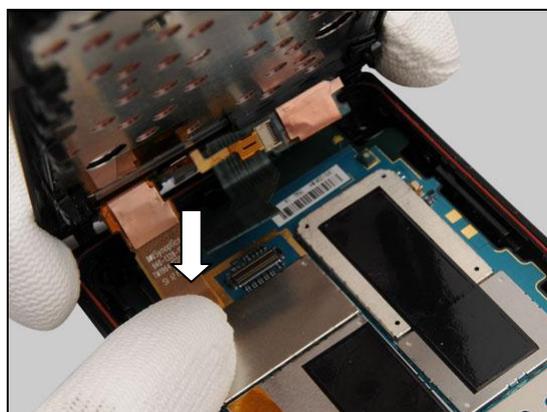
Use an air gun to clean the Gasket Main cavity on the Touch/Display Front Cover Assy!



There are two BtB connectors.

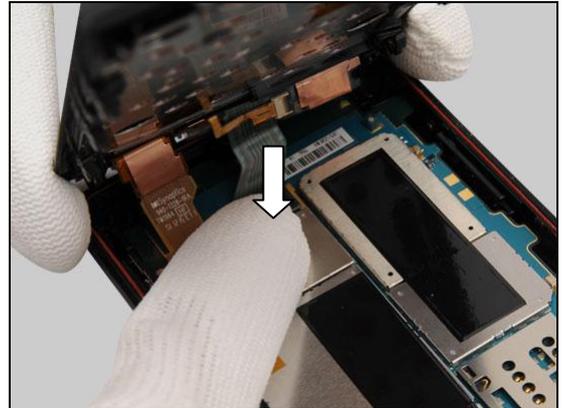


Press to snap the BtB connector with a finger.



Reassembly

Do the same to snap the other BtB connector.



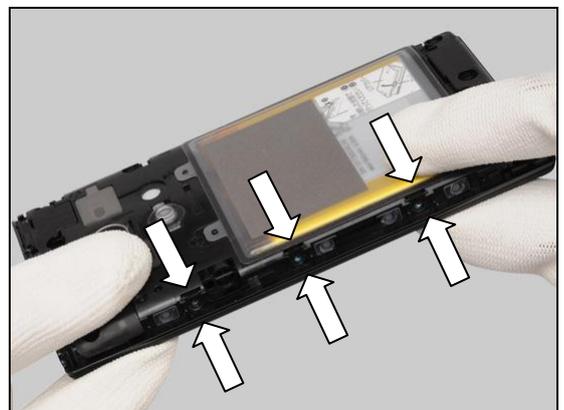
Securely place the Touch/Display Front Cover Assy on its proper position as shown in picture.



Press to snap the hooks.

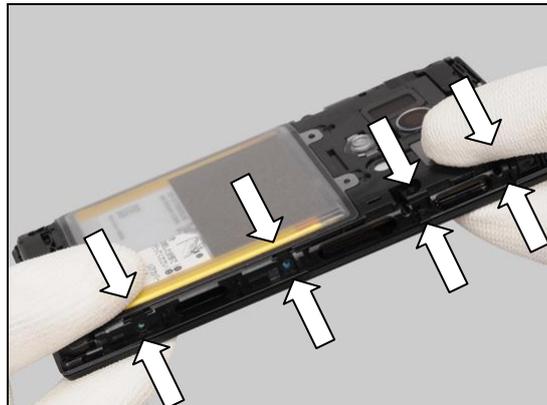


Turn the phone over and press to snap the hooks on this side.

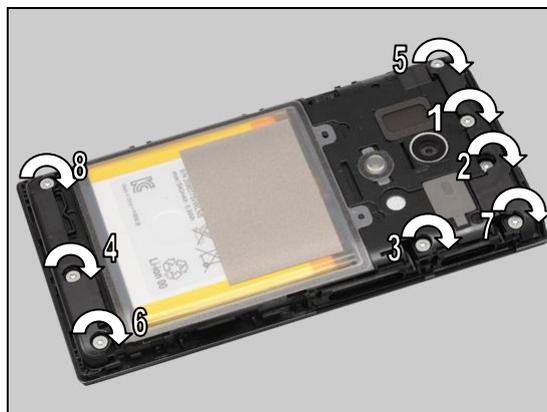


Reassembly

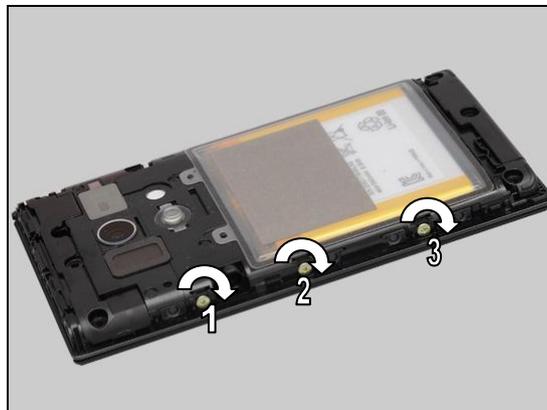
Do the same on the opposite side.



Apply $23\text{Ncm} \pm 2\text{Ncm}$ torque when tightening these eight screws with Bits (T6) according to the sequence of 1 to 8.



Apply $12\text{Ncm} \pm 1\text{Ncm}$ torque when tightening these three screws with Bits (JCIS No 0) according to the sequence of 1 to 3.



Apply $12\text{Ncm} \pm 1\text{Ncm}$ torque when tightening these two screws with Bits (JCIS No 0) according to the sequence of 4 to 5.

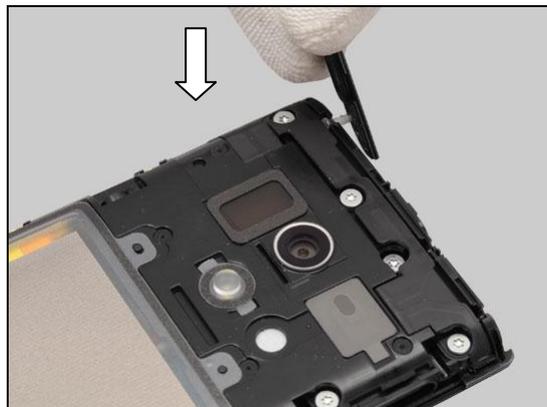


Reassembly

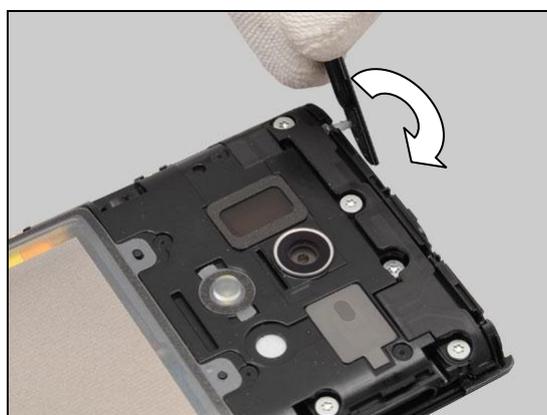
5.6 Caps & Charger PAD connector & Keys

**Use an air gun to clean the Cap HDMI and its hole!
Do not touch the sealing rubber of the Cap HDMI!
Make sure that the Cap HDMI is clean and no dirt,
particles and fiber attached on it! Otherwise replace a
new one.**

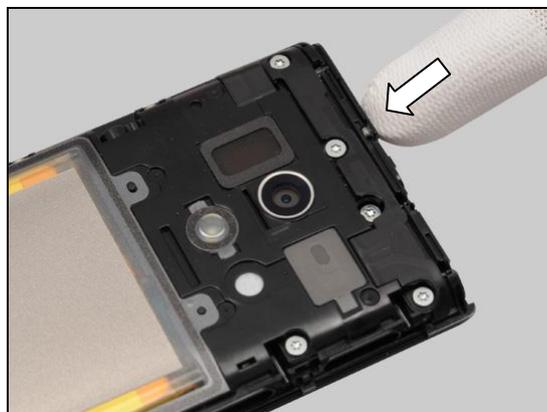
Gently insert the plug of the Cap HDMI into the socket with fingers as shown in picture.



Turn it over.



Press to secure its position.



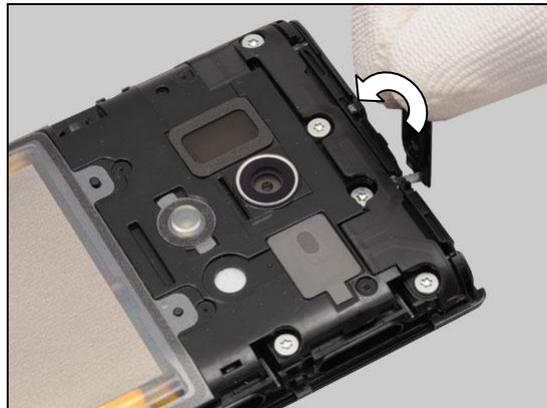
**Use an air gun to clean the Cap Audio Jack and its hole!
Do not touch the sealing rubber of the Cap Audio Jack!
Make sure that the Cap Audio Jack is clean and no dirt,
particles and fiber attached on it! Otherwise replace a
new one.**

Gently insert the plug of the Cap Audio Jack into the socket with fingers as shown in picture.

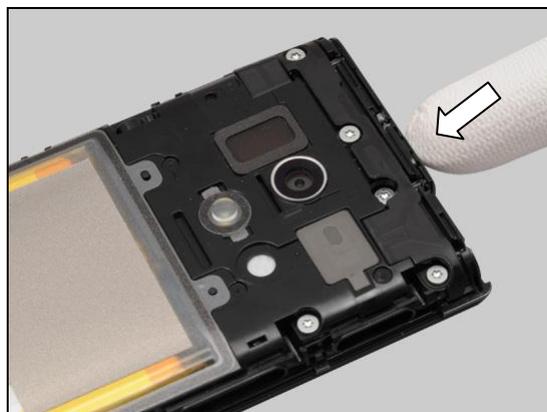


Reassembly

Turn it over.

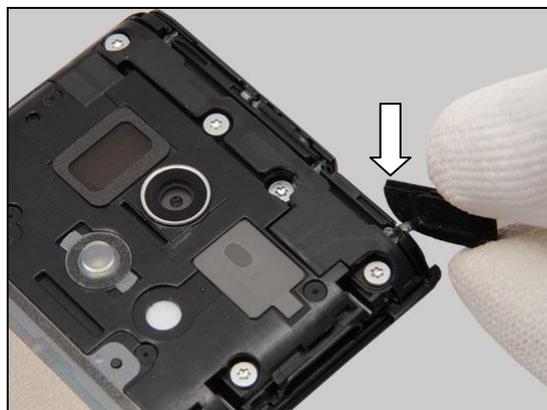


Press to secure its position.

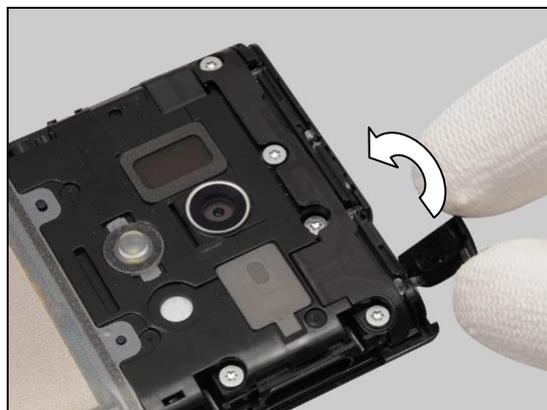


**Use an air gun to clean the Cap Micro USB and its hole!
Do not touch the sealing rubber of the Cap Micro USB!
Make sure that the Cap Micro USB is clean and no dirt,
particles and fiber attached on it! Otherwise replace a
new one.**

Gently insert the plug of the Cap Micro USB into the socket with fingers as shown in picture.

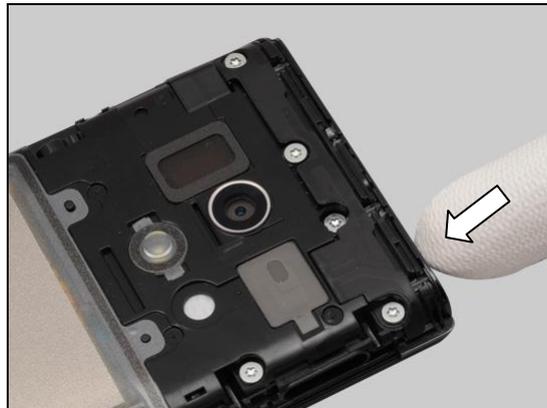


Turn it over.

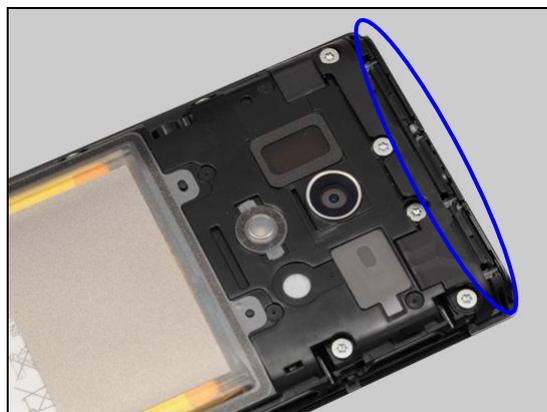


Reassembly

Press to secure its position.

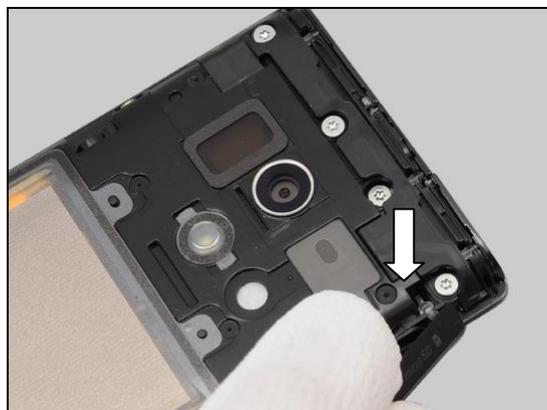


Check that if the Caps are securely installed as shown in picture!

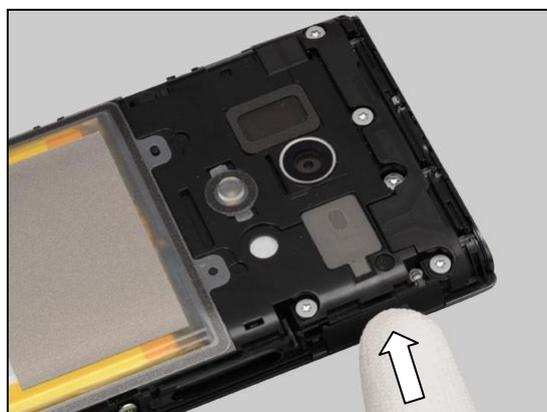


**Use an air gun to clean the Cap Micro SD and its hole!
Do not touch the sealing rubber of the Cap Micro SD!
Make sure that the Cap Micro SD is clean and no dirt,
particles and fiber attached on it! Otherwise replace a
new one.**

Gently insert the plug of the Cap Micro SD into the socket with fingers as shown in picture.



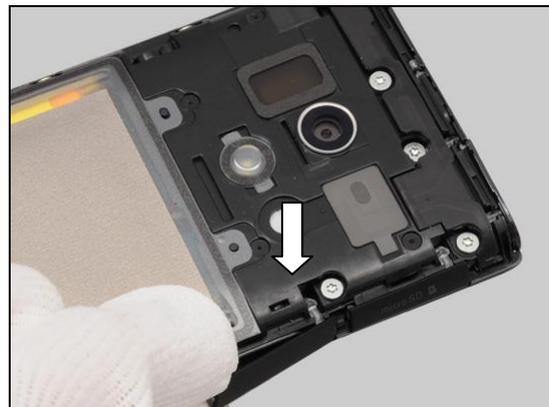
Press to secure its position.



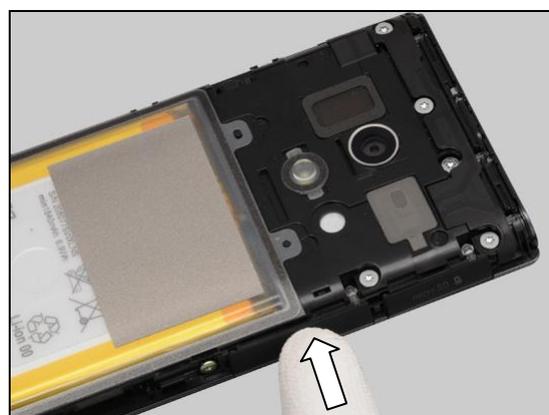
Reassembly

**Use an air gun to clean the Cap SIM and its hole!
Do not touch the sealing rubber of the Cap SIM!
Make sure that the Cap SIM is clean and no dirt,
particles and fiber attached on it! Otherwise replace a
new one.**

Gently insert the plug of the Cap SIM into the socket with fingers as shown in picture.



Press to secure its position.



**Check that if the Caps are securely installed as shown
in picture!**



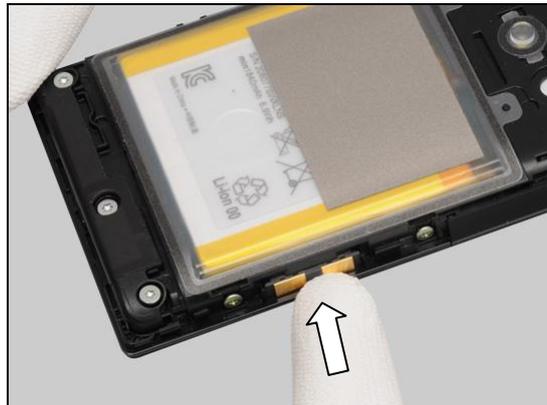
**Use an air gun to clean the Charger PAD connector and
its hole!
Do not touch the O-Ring of the Charger PAD connector!
Make sure that the Charger PAD connector is clean and
no dirt, particles and fiber attached on it! Otherwise
replace a new one.**

Gently insert the Charger PAD connector into the slot as
shown in picture.



Reassembly

Press to secure its position.



Check that if the Charger PAD connector is securely installed as shown in picture!

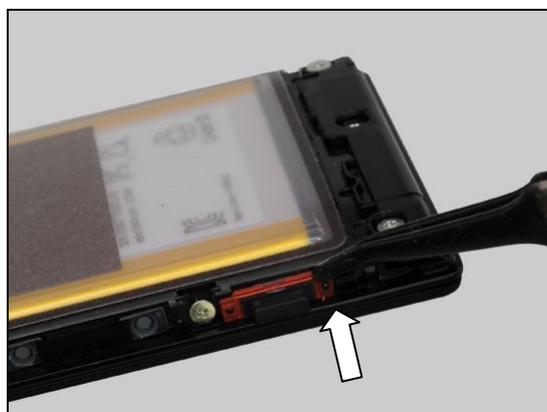


Place the Key Camera on its proper position as shown.

Note the orientation of the Key Camera to be installed!



Press this side to position the Key Camera by using pin and hole.



Reassembly

Do the same on this side as shown in picture.

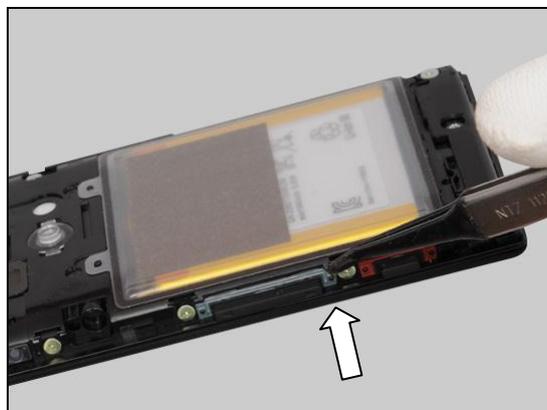


Place the Key Volume on its proper position as shown.

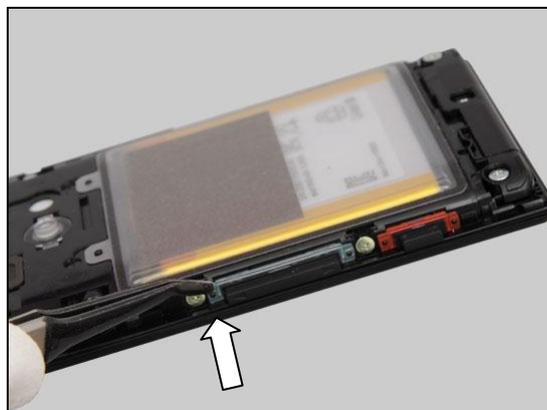
Note the orientation of the Key Volume to be installed!



Press this side to position the Key Volume by using pin and hole.



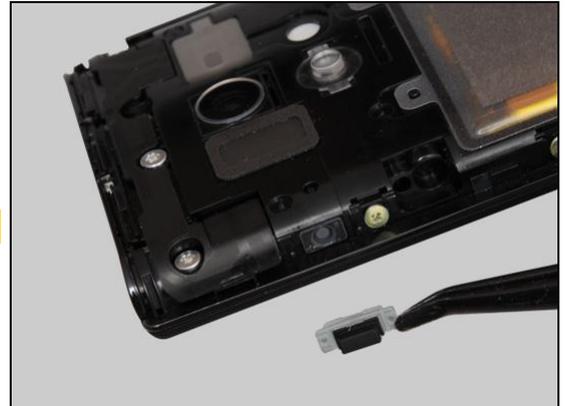
Do the same on this side as shown in picture.



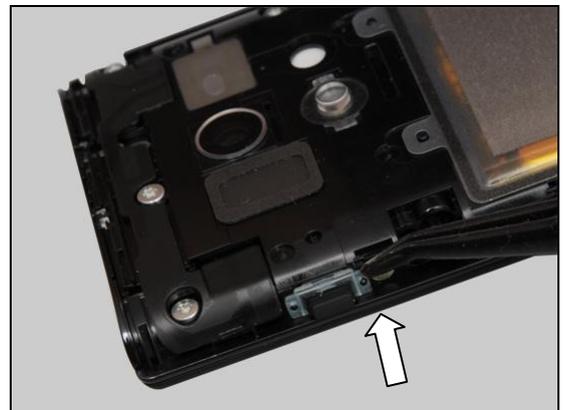
Reassembly

Place the Key Power on its proper position as shown.

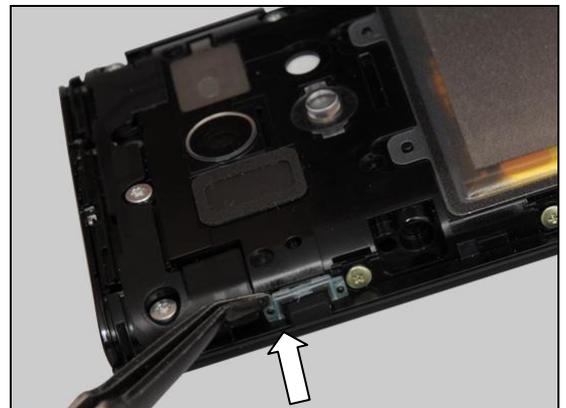
Note the orientation of the Key Power to be installed!



Press this side to position the Key Power by using pin and hole.



Do the same on this side as shown in picture.



5.7 Cover Back

Securely place the Cover Back on its proper position as shown.

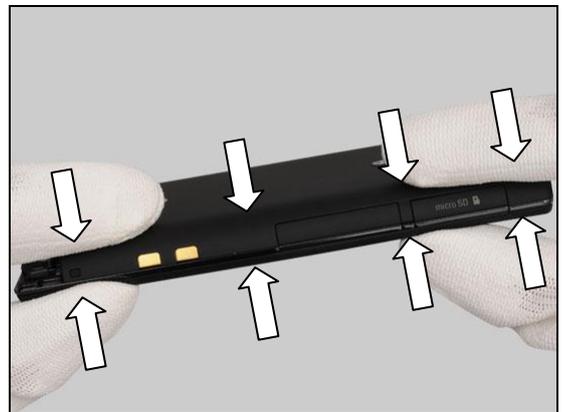


Reassembly

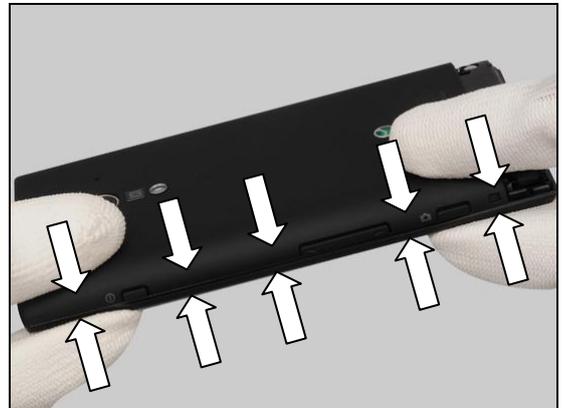
Press to snap the hooks of the Cover Back.



Press this side to snap the hooks.



Do the same on the opposite side.



Do the same on this side.



Reassembly

Do the same on the opposite side.

5.8 Core Unit Label

Check that the proper label format is loaded in the Zebra printer and write a new Label by using the 'LabelMake' software.

Securely place the Core Unit Label on its correct position as indicated by the screw hole and the blue lines.

One label only is allowed!



Press along the surface to make the label securely attached.



Press this side to make it securely attached.



Reassembly

5.9 Cover Bottom

Securely place the Cover Bottom on its correct position as shown.



Press to snap the hooks of Cover Back.



5.10 SIM Connector

Do not touch the sealing rubber of the Cap SIM!
Make sure that the Cap SIM is clean, no dirt, particles and fiber attached on it!

Pull upwards to release the Cap SIM with fingers.



Insert the SIM Connector into the slot.

Make sure the correct direction of the SIM Connector!



Reassembly

Push the SIM Connector into the bottom.



**Use an air gun to clean the Cap SIM and its hole!
Do not touch the sealing rubber of the Cap SIM!
Make sure that the Cap SIM is clean and no dirt,
particles and fiber attached on it! Otherwise replace a
new one.**

Press to snap the Cap SIM.



6 Revision History

Rev.	Date	Changes / Comments
1	2012-Jul-27	Initial release
2	2012-Sep-14	Update chapter 4.22 and 4.29, add chapter 4.39

SONY

make.believe

Test Instructions

- mechanical -



Xperia™ acro S

LT26w

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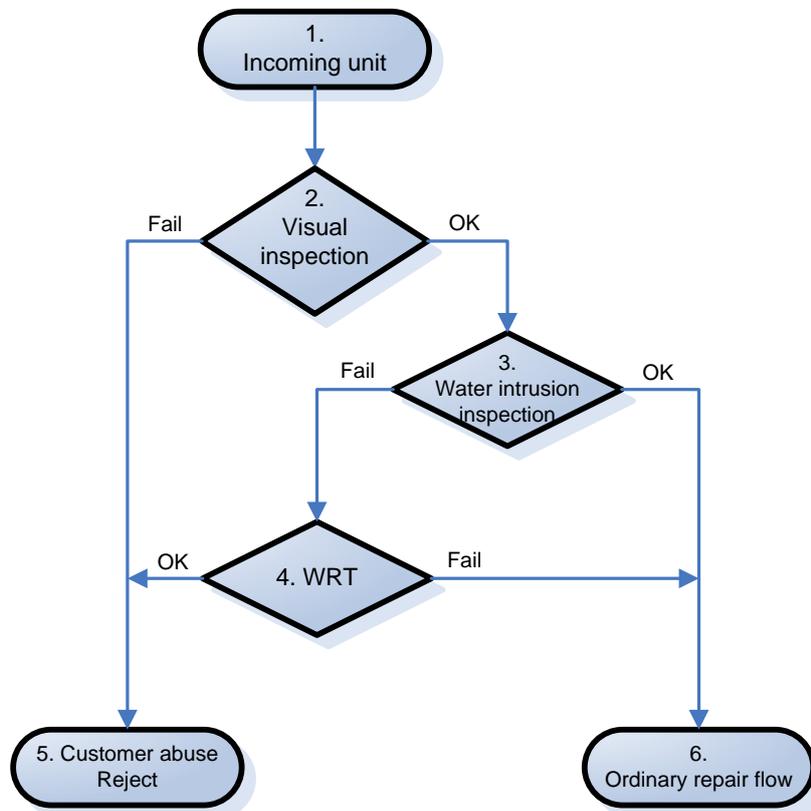
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***For general information about test procedures, refer to
1220-1333: Generic Repair Manual - mechanical***

1 Pre-Test Preparations

1.1 Process flow – Water Resistance Test (WRT) for incoming units



This process flow is a complement to the process flow in the *1220-1333 Generic Repair Manual*.

1. Unpack and handle the unit according to your local instruction and check of warranty.
2. Try to determine whether the unit has been exposed to abuse by doing a close general visual inspection, according to chapter 4 *1220-1333 Generic Repair Manual*.
3. General condition inspection of the sealings at the Cap Audio Jack, Cap Micro SD, Cap SIM, Cap HDMI and Cap Micro USB. Check the Liquid Indicator. This check up will give you an indication whether the unit has been in contact with liquid.
4. Perform a Water Resistance Test to verify if the unit is water resistance or not.
5. The unit must be rejected if the visual inspection or the Water Resistance Test shows any kind of abuse of the unit.
6. Otherwise shall the unit be handled in the ordinary repair flow.

Pre-Test Preparations

1.2 Hardware

1.2.1 Water indicator inspection

Before starting any tests, make a general inspection of the unit. If the Liquid Indicator has been affected or the unit indicates any kind of water damaged, perform the WRT test to confirm if the unit still is water resistance, see chapter 1.1

The indicators are located as shown in these pictures after the Cap Micro SD is opened.



The indicators are located as shown in these pictures after the Cap Audio Jack is opened.

If Liquid Indicator are affected (red color) **and** the WRT test proves that the unit is water resistance then handle the phone according to your local directives.

If the Liquid Indicator isn't affected or the WRT test prove that the unit **isn't** water resistance, proceed to the 'Pre-Test Preparation' below.

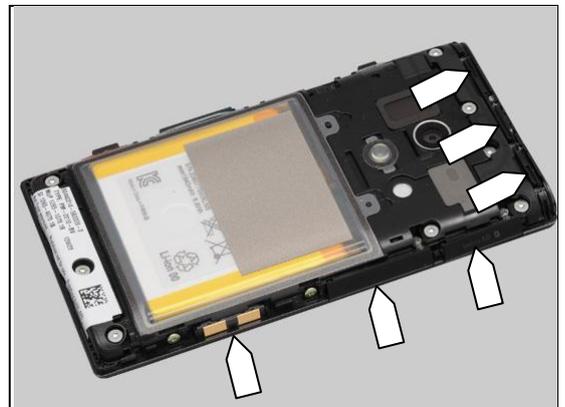


1.2.2 Water Resistance

It is mandatory to verify that the unit is water resistance if you disassemble the unit or suspect abuse, (i.e. not for No Trouble found or Software problems).

The test is done without Cover Bottom and Cover Back assembled.

This test is done with air, therefore you have to seal the two microphones, and make sure that Cap Audio Jack, Cap Micro SD, Cap SIM, Cap HDMI, Cap Micro USB and Charger PAD connector are assembled well.

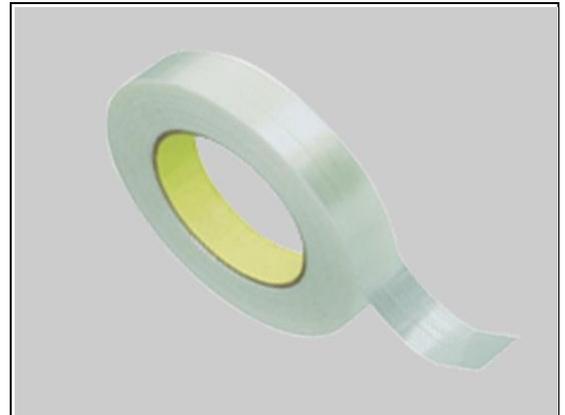


Seal the primary microphone hole with tape.



Pre-Test Preparations

Sealing adhesive is used to seal the secondary microphone hole, part number is 1267-9004.

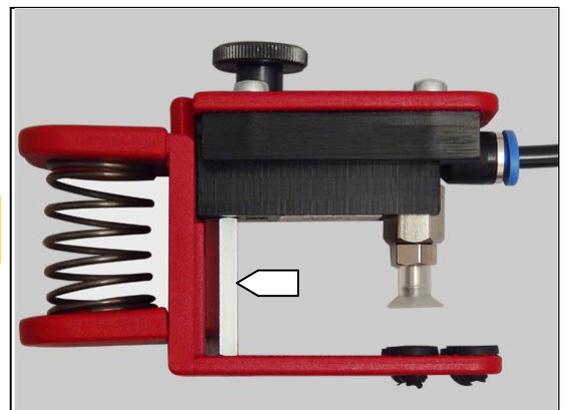


Seal the secondary microphone hole with sealing adhesive.



Pillar for WRT 23mm, part number is 1264-8565.

Use the 23mm Pillar (1264-8565: Pillar for WRT 23mm) for LT26w instead of the original 25mm Pillar.



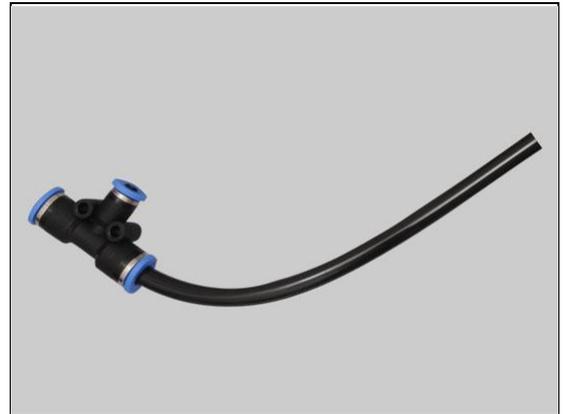
Vacuum Cup 7mm Silicone, part number is 1266-4397.

Use the Vacuum Cup 7mm Silicone (1266-4397: Vacuum Cup 7mm Silicone) for LT26w instead of the original Vacuum Cup 9mm Silicone.

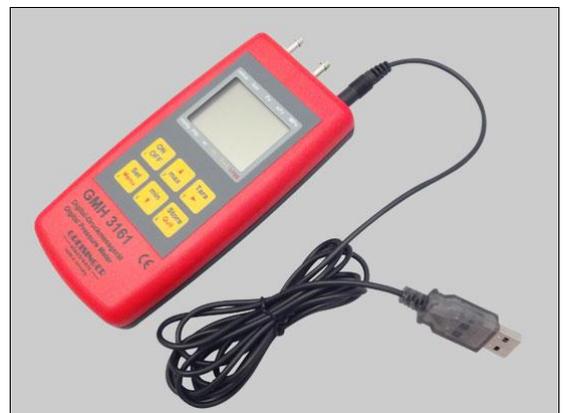


Pre-Test Preparations

External pressure sensor tubing upgrade kit, part number is 1265-7242.

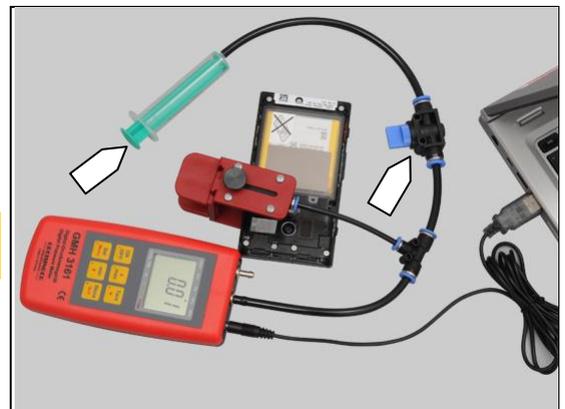


External pressure sensor (Greisinger GMH 3161-07) and USB Interface Cable Greisinger USB3100N.



Water Resistance Test (WRT) tool with external pressure sensor is connected to PC.

Make sure the valve is open and the syringe is pushed to the bottom before test!



How to assemble the Water Resistance Test (WRT) tool with external sensor.

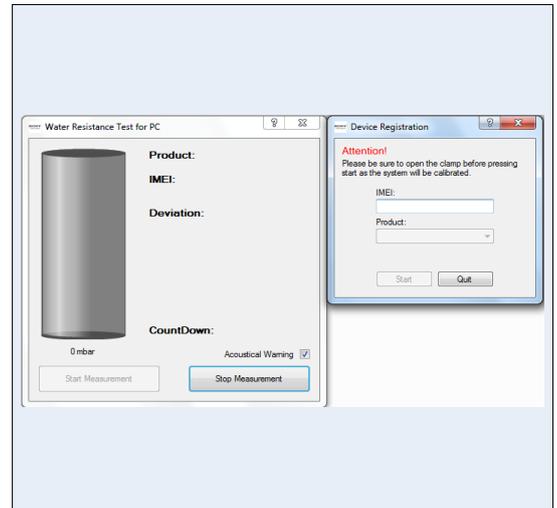
How to run the Water Resistance Test (WRT).

Sample phone is used in Movie, WRT method is the same.



Pre-Test Preparations

Start the Water Resistance Test application on your PC and power on the external pressure sensor.

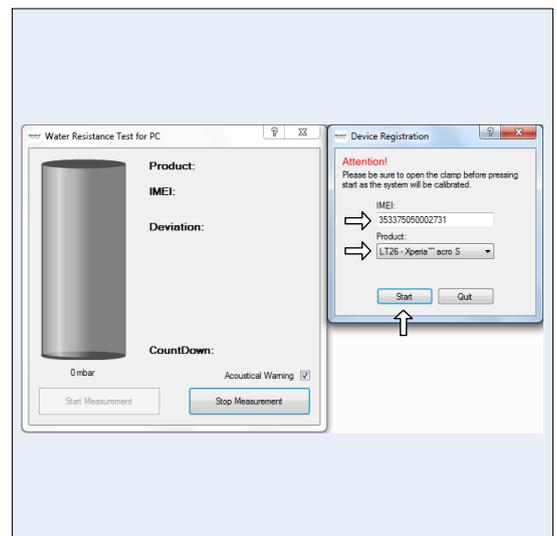


Enter IMEI number, select product and press 'start'.

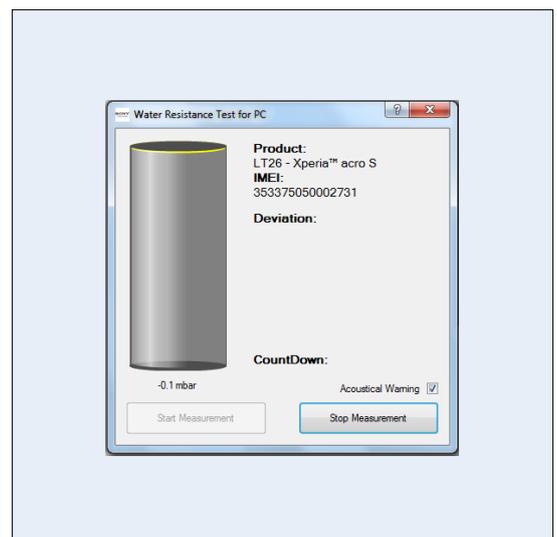
The 'Start' button is valid only when IMEI has been entered.

Make sure to select correct product as measurement evaluation is product specific.

Make sure to open the clamp before pressing "start" as the system will be calibrated.



The Water Resistance Test application is ready for test.



Pre-Test Preparations

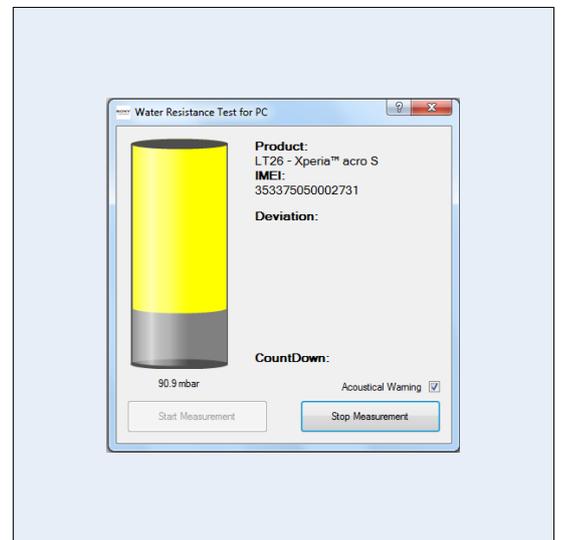
LT26w Ventilation hole.



Position the clamp to make sure the ventilation hole is fully sealed by vacuum cup.



Pull the Syringe SLOWLY to produce under pressure, meanwhile the bar becomes yellow color.



Pre-Test Preparations

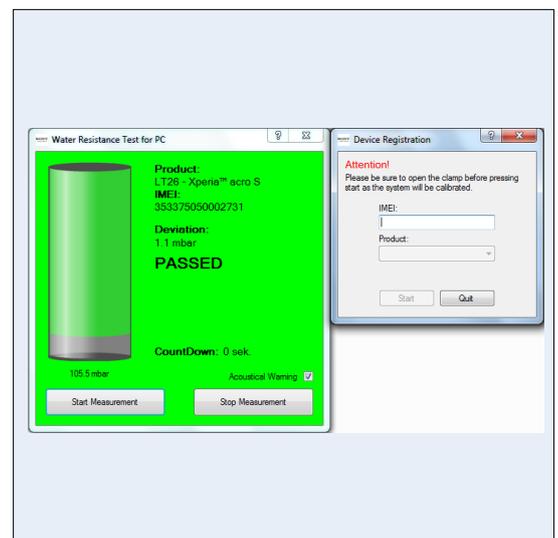
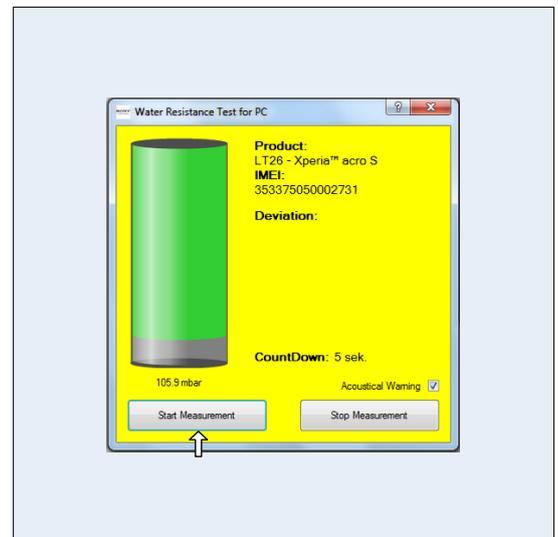
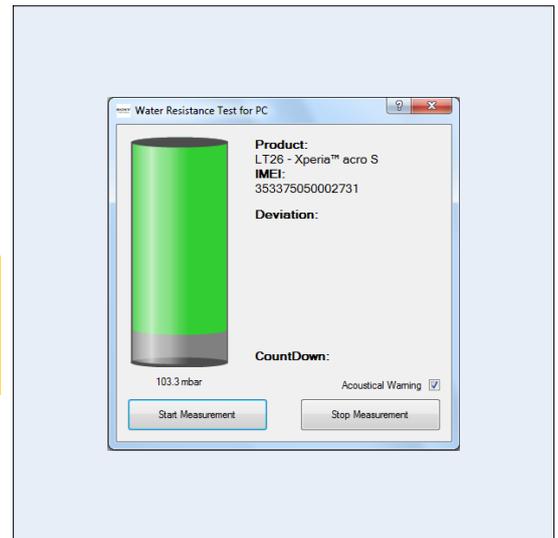
When the bar color changes to green, stop pulling syringe and close the valve to minimize influence of tubes and syringe.

The 'Start Measurement' button is valid only when the bar color is green.

Do not push back syringe if bar color is red! Re-start the test.

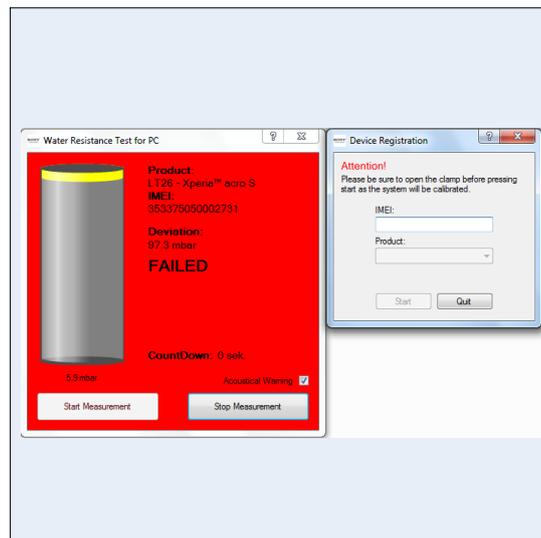
Press 'Start Measurement' button and wait for measurement result.

If the deviation value is less than or equal to test limit the test is 'PASSED'.



Pre-Test Preparations

Otherwise the test is 'FAILED'.
Repair the unit according to the Mechanical Troubleshooting Guide and Working Instructions, then run the test again.



Pre-Test Preparations

1.3 Software

1.3.1 Software update

1.3.1.1 Software version verification

Check the software version of the phone for fault verification. The latest improvements are found on the support pages under the support news

<http://www.sonyericsson.com/cws/marketingurlportal?pageid=key.SupportZone.Overview>

- Start up the phone
 - Note: Make sure the phone is in call setup.
- Press the following keypad combination: ***##7378423##***
- Select 'Service info'
- Select 'Software info'
- Check the software file revisions and, if needed, update as described below:

For more information, refer to 1220-1333: Generic Repair Manual - mechanical

1.3.1.2 Software version update

Mandatory first repair action!

Use the USB cable to connect with the Micro USB connector of the phone for this purpose!

Ensure the phone is powered off and proceed as follows:

- Open the Emma application and log in.
- Press and hold the volume down key on the phone, connect the phone to the USB cable and then release the volume down key.
- Select the appropriate service and follow the on-screen instructions.

Note: For phones with eMMC flash memory (built in "SD card" memory), the only service which erase this eMMC memory is Service's "Refurbish" and "Customize". See also emma User Guide info. http://emma.extranet.sonyericsson.com/documents/emma_user_guide.pdf (see "Service Types" and "Aspects of large files")

In Swap flow, when change a phone from Customer A to Customer B, always use the service Customization script.

2 Tests

2.1 Service Test Mode

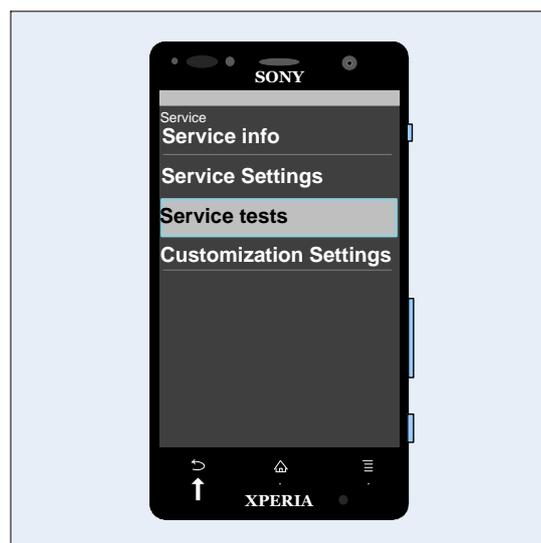
Note: Make sure the phone is in call setup when pressing these touching keypads to get into the Service menu!

Start up the phone and enter the service menus:

- Press the following keypad combination: ***##7378423##**

- Select 'Service tests'
- Select one of the tests and follow the test instructions as described below
- To stop the test and return to the 'Service tests' menu, press the Back key

For more information, refer to 1220-1333: Generic Repair Manual - mechanical



The following pictures will show a simplified basic phone for a general visualization of the service tests!

Tests

2.2 Service Tests

2.2.1 Keyboard & Switch

Text Note: The Home Key and On/Off key are not part of the keyboard test, but are in the Manual tests.

To return to the Service Test Menu, wait for 8 seconds.

Press all keys on the:

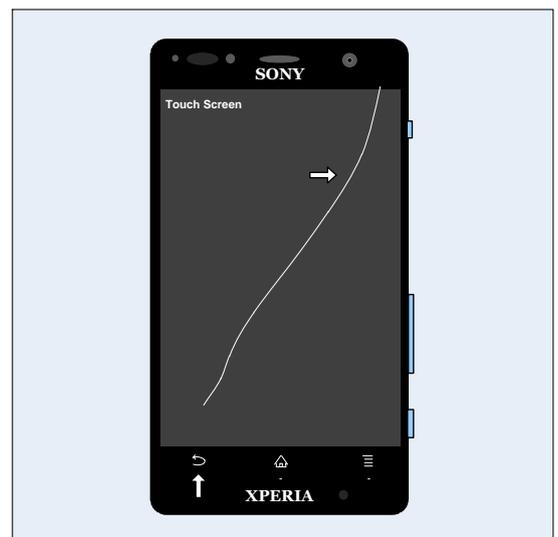
- Back key
- Menu key
- Auto Focus Key(*half pressed*)/Camera Key(*fully pressed*)
- Volume up key
- Volume down key



2.2.2 Touch Screen

Move a finger across the touch screen, a line will be drawn as it touches.

Press the Back key to return to the Service Test Menu.



2.2.3 Display

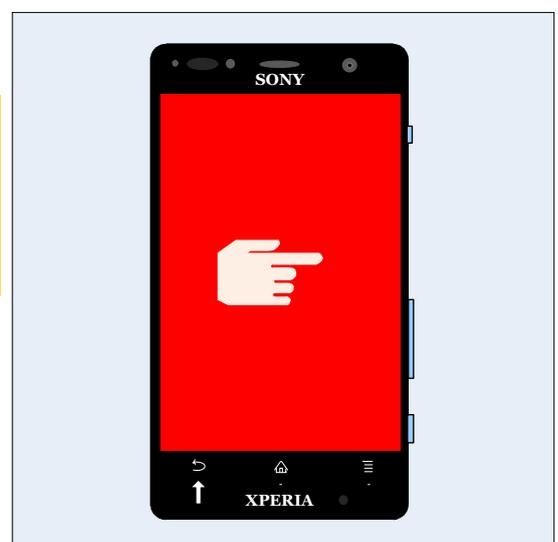
Minor variations in the display's brightness and color may occur between phones.

There may be tiny bright dots on the display, called defective pixels and which occur when individual dots have malfunctioned and cannot be adjusted.

Two defective pixels are considered to be acceptable.

Touch the display using a finger. With every touch, the display will show six test patterns of White, Black, Red, Green, Blue and Rainbow colors on the full screen. Make sure that there are no missing segments and that the colors and contrast are OK.

Press the Back key to return to the Service Test Menu.



Tests: Service Tests

2.2.4 LED/Illumination

Check that the:

- Display Backlight illumination goes from low to high strength back to low again.
- Notification LED on the top left corner changes, showing four colors in the following sequence: green, blue, red and off.
- The underlines backlight illumination of menu, home and back keys goes from low to high strength back to low again.

Press the Back key to return to the Service Test Menu.



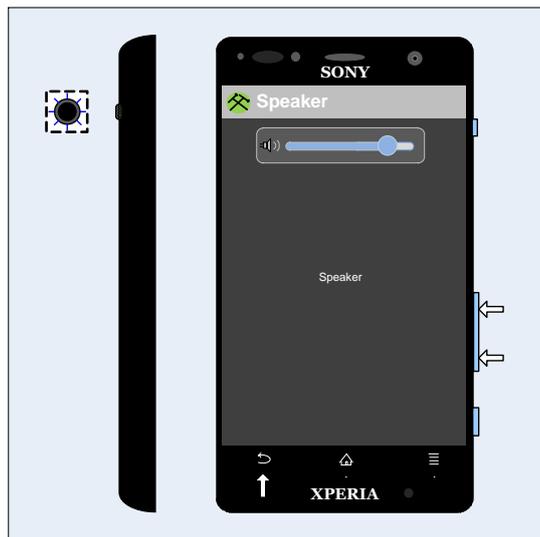
2.2.5 Speaker

Do not hold the phone close to an ear during this test!

Make sure that the sound from the speaker port on the middle top back side of the phone is emitted loud and clear and that the test includes maximum volume.

Press the volume up/volume down key to adjust the speaker volume.

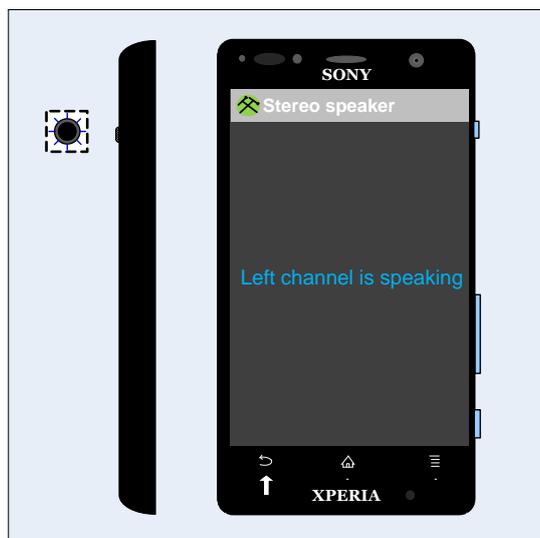
Press the Back key to return to the Service Test Menu.



2.2.6 Stereo speaker

N/A

Press the Back key to return to the Service Test Menu.



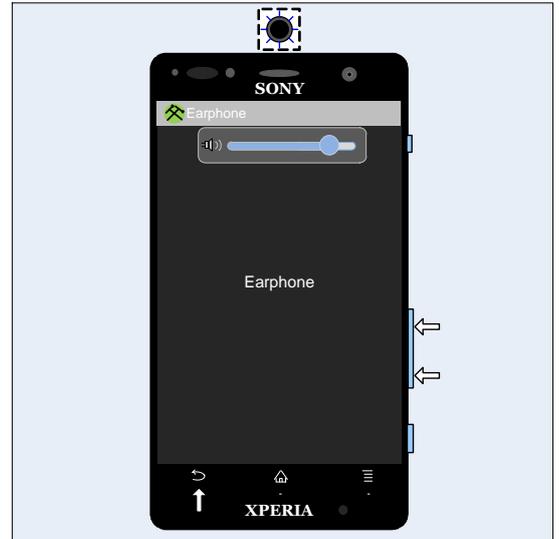
Tests: Service Tests

2.2.7 Earphone

Make sure that the sound from the Earphone port on the top of the phone is emitted loud and clear and that the test include maximum volume.

Press the volume up/volume down key to adjust the earphone volume.

Press the Back key to return to the Service Test Menu.



2.2.8 Microphone

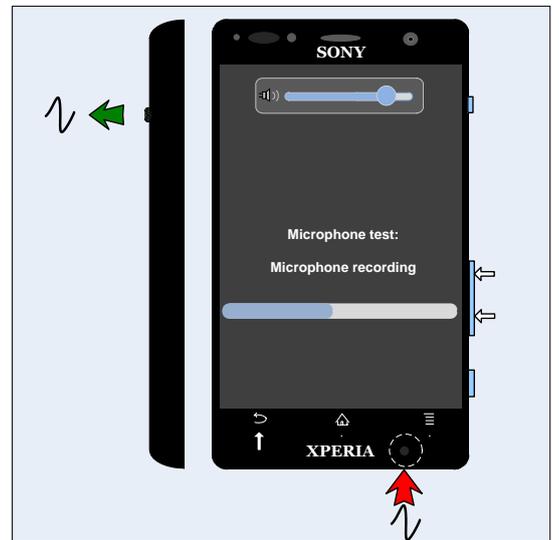
The previous 'Speaker' test must have been successfully carried out before doing this test!

The phone will start to record and after approximately ten seconds the sound is played back through the Speaker.

Step 1: Speak into the microphone during the 'Microphone Recording' phase;

Step 2: Check the quality by listening to the recording from the Speaker during the 'Playing recorded sound' phase at maximum volume.

Press the Back key to return to the Service Test Menu.



2.2.9 Secondary Microphone

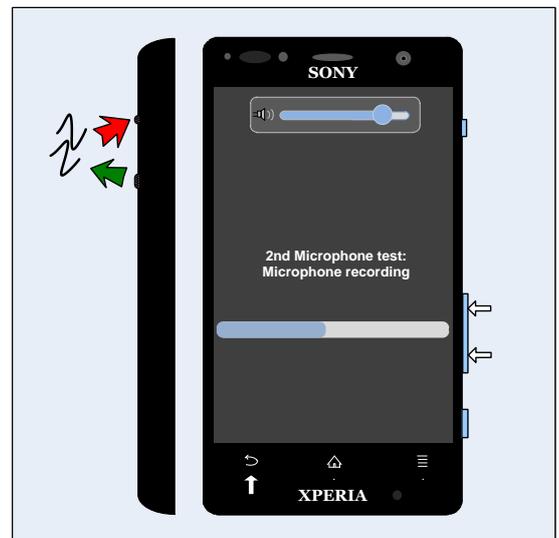
The previous 'Speaker' test must have been successfully carried out before doing this test!

The phone will start to record and after approximately ten seconds the sound is played back through the Speaker.

Step 1: Speak into the secondary microphone during the 'Microphone Recording' phase;

Step 2: Check the quality by listening to the recording from the Speaker during the 'Playing recorded sound' phase at maximum volume.

Press the Back key to return to the Service Test Menu.

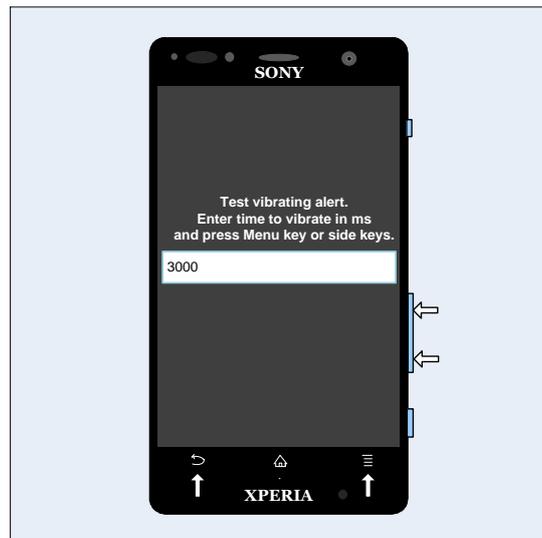


Tests: Service Tests

2.2.10 Vibrator

Press the menu key or side keys to start the vibrator test. It is possible to modify the duration of this test.

Press the Back key to return to the Service Test Menu.



2.2.11 Camera

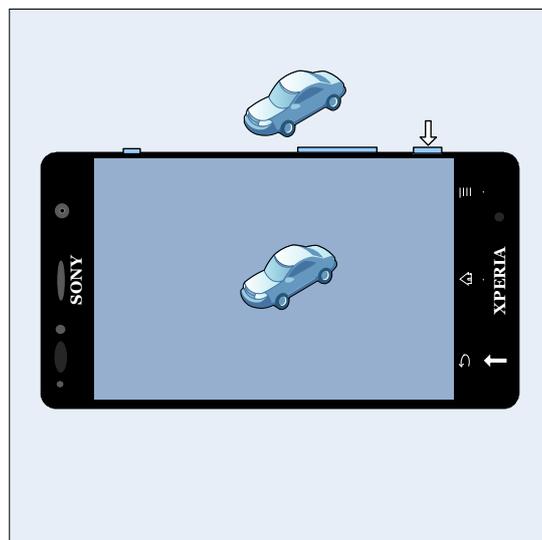
Minor variations in image appearance may occur between phones, but is not uncommon and should not be regarded as an indication of a defective camera module!

Aim the camera (located at the back of the phone) at an object and check the quality of the image shown in the display.

Press the Camera key to preview the photo's auto focus quality.

Photos are taken but not saved during this test!

Press the Back key to return to the Service Test Menu.



2.2.12 Secondary Camera

Minor variations in image appearance may occur between phones, but is not uncommon and should not be regarded as an indication of a defective camera module!

Aim the camera (located in front of the phone) at an object and check the quality of the image shown in the display.

Press the Back key to return to the Service Test Menu.

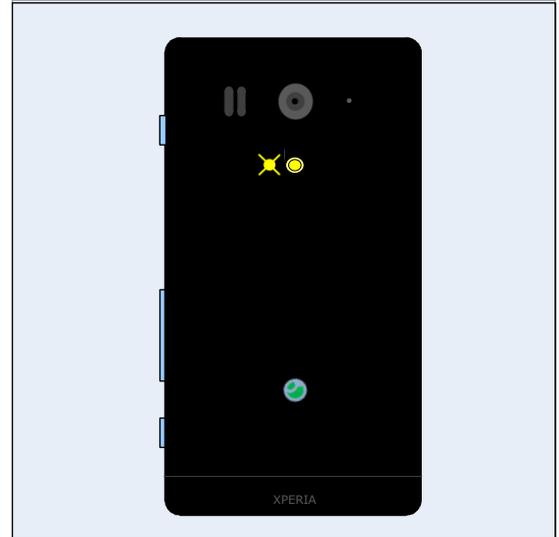


Tests: Service Tests

2.2.13 Flash LED

Check the Flash LED at the back side of phone to see whether it's turned on.

Press the Back key to return to the Service Test Menu.



2.2.14 Bluetooth

**During this test, the distance between the phone and the target Bluetooth device must be 1.5 to 5 meters!
Make sure the target Bluetooth device is enabled and visible always!**

The Bluetooth test will be done in following sequences:
Step 1: Enable Bluetooth; wait 4-5 seconds, shows OK;

There is a permission request, select 'Yes'.

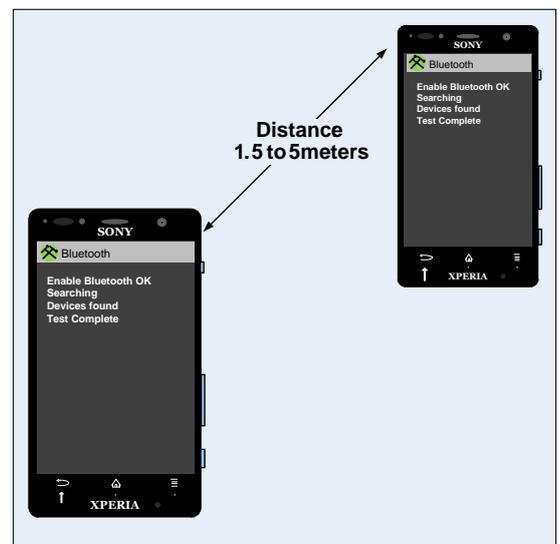
Step 2: Searching;

Step 3: Show the Device Found list;

Step 4: Select the Target Bluetooth Device, and type the PIN code to pair;

Step 5: Type the Pairing PIN code on the Target Bluetooth Device also, when successful, it shows 'Test Complete'.

Press the Back key to return to the Service Test Menu.



Tests: Service Tests

2.2.15 WLAN

Make sure there's a WLAN network before performing this test.

The WLAN test will be done in following sequences:

- Step 1: Enable WLAN; wait 4-5 seconds, shows OK;
- Step 2: Searching;
- Step 3: Access points found list;
- Step 4: Select the Target WLAN network, and type the password to get connected;
- Step 5: Enter a web address (e.g. Google.com);
- Step 6: When connection succeeded, it shows 'Test Complete'.

Press the Back key to return to the Service Test Menu.



2.2.16 NFC

A NFC SIM card 3FF should be inserted in the phone before the start of this test!

The NFC test will be done in following sequences:

- Step 1: Select 'NFC';
- Step 2: NFC Diag Test;
- Step 3: After 'Tag Reading...Enabled' can be seen on the display, bring a NFC Tag close to middle of Rear Cover.

Don't touch each other to avoid Rear Cover scratch.

Press the Back key two times to return to service test menu.



2.2.17 GPS

Enter the GPS Location Test and wait for the GPS location data.

Press the Back key to return to the Service Test Menu.

For GPS testing, refer to 1220-1333: Generic Repair Manual – mechanical



Tests: Service Tests

2.2.18 Compass

Do calibration with hand movements as shown in the phone, and then check the actual direction with measured value.
(Yaw:0=North, 90=East, 180=South, 270=West)

Press the Back key to return to the Service Test Menu.



2.2.19 Accelerometer

The accelerometer test displays the actual position of the phone as a 3D coordinate X: Y: Z.

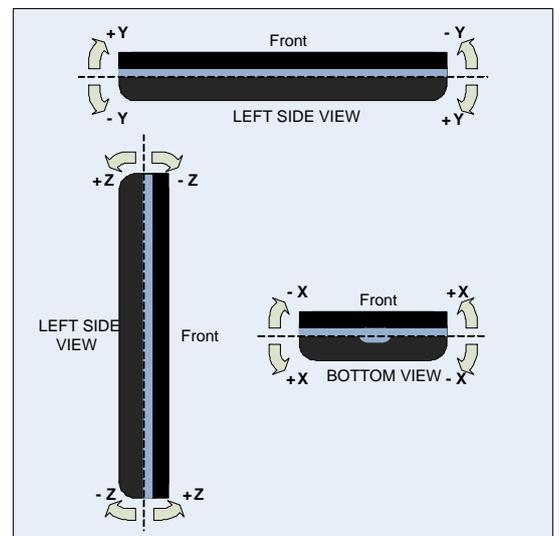
Press the Back key to return to the Service Test Menu.



By tilting the phone in various directions, the X: Y: Z values will change in size and polarity depending on the angle and direction as shown in the adjacent picture.

Check by tilting the phone that the X: Y: Z values shown in the display are in accordance with the tilting shown in the picture.

Press the Back key to return to the Service Test Menu.



Tests: Service Tests

2.2.20 Gyroscope

The gyroscope test displays the actual position of the phone as a 3D coordinate X: Y: Z.

Check by moving the phone that the X: Y: Z values shown in the display are in accordance with the moving.

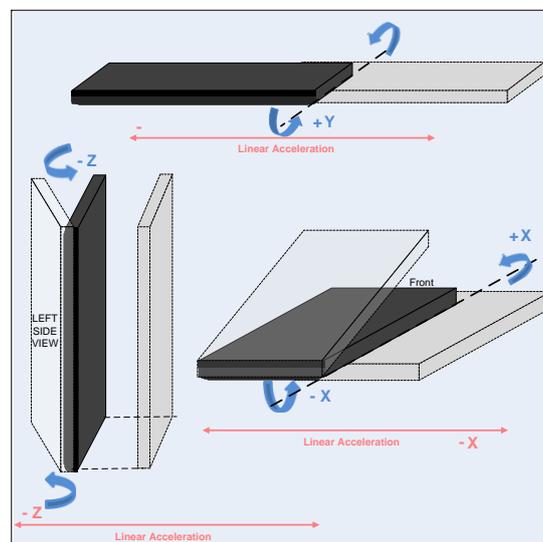
Press the Back key to return to the Service Test Menu.



Check 'Gravity Values' 'Linear Acceleration Values' 'Rotation Vector Values' and 'Gyroscope Values' by moving the phone:

'Gravity Values' can be refer to Accelerometer;
 'Linear Acceleration Values' and 'Rotation Vector Values' are in accordance with the action shown in the picture.
 'Gyroscope Values' are updated while moving the phone.

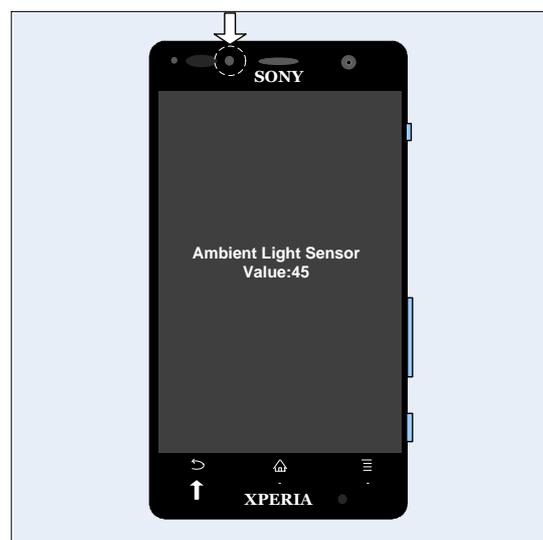
Press the Back key to return to the Service Test Menu.



2.2.21 Ambient Light Sensor

The Ambient light test states a value. The value should increase when the window gets more light and decrease when the window gets less light.

Press the Back key to return to the Service Test Menu.



Tests: Service Tests

2.2.22 Proximity switch

**The previous 'Speaker' test should have been successfully carried out before doing this test!
Make sure the phone is not in 'silent mode' before performing this test.**

When entering into the test, the screen shows 'Proximity switch OFF' and a tone is emitted.

When covering the proximity switch area (on the left side of the Ear Speaker), the screen will show 'Proximity switch ON' with a different type of tone.

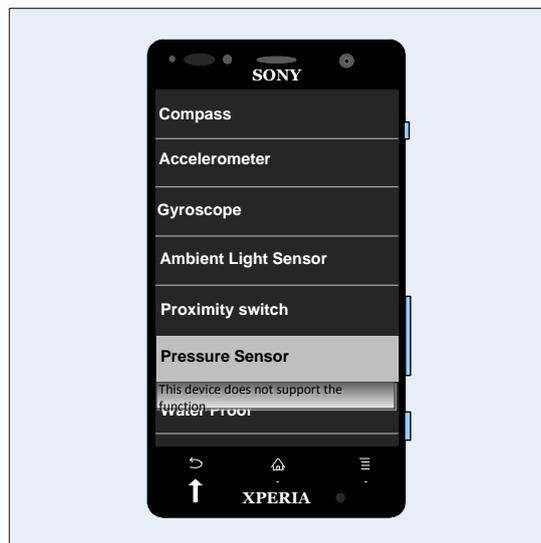
Press the Back key to return to the Service Test Menu.



2.2.23 Pressure Sensor

N/A.

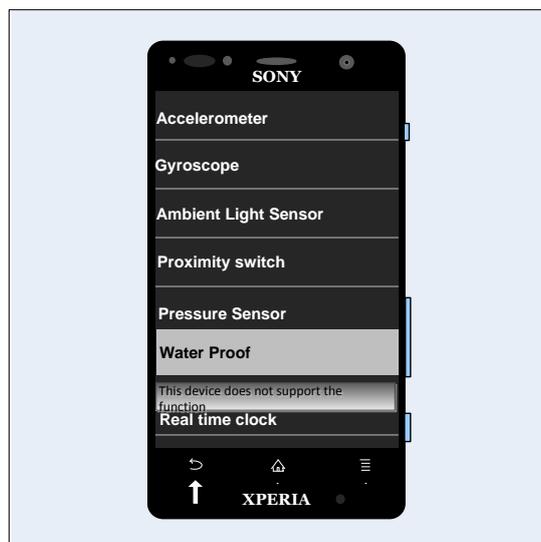
This test is not available for this product!



2.2.24 Water Resistance

N/A. Refer to 1.2.2 Water Resistance

This test is not available for this product!

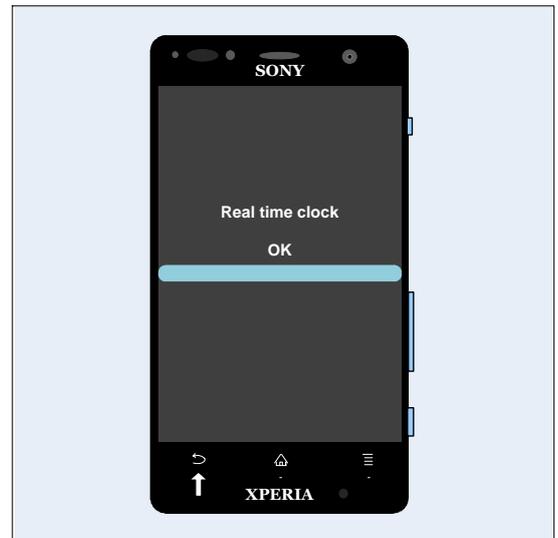


Tests: Service Tests

2.2.25 Real time clock

During the actual test the text 'Real time clock' is displayed, and then followed by a message stating whether the test was OK or not.

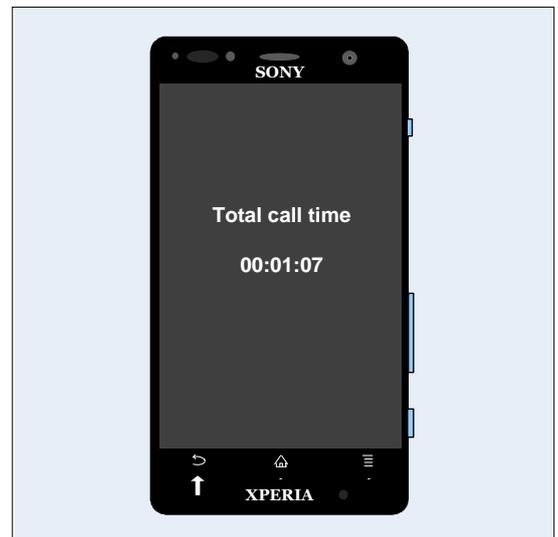
Press the Back key to return to the Service Test Menu.



2.2.26 Total call time

The total call time is displayed in the format HH:MM:SS (hours: minutes: seconds).

Press the Back key to return to the Service Test Menu.



2.2.27 Storage

Memory Storage status:

- Internal Mass Storage is 'Inserted/Mounted' as shown on the screen.

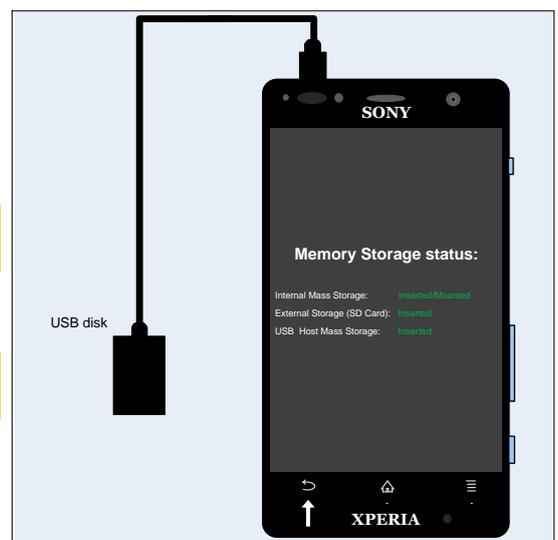
A memory card should be inserted in the phone before starting this test!

- External Storage (SD Card) is 'Inserted' as shown on the screen.

Attach USB Adaptor between phone and an USB disk as shown in picture.

- The USB Host Mass Storage status is shown on the screen.

Press the Back key to return to the Service Test Menu.



Tests: Service Tests

2.2.28 Security

The DRM keys are shown in the display.
There may be different content shown based on different market software versions.

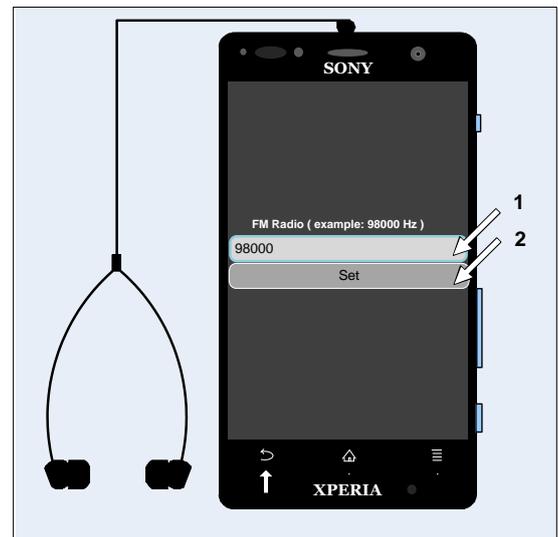
Press the Back key to return to the Service Test Menu.



2.2.29 FM Radio

Verify that the phone can detect a radio station:
Connect a headset and then set your local radio station in Hz.
Verify that the reception and sound quality is normal.

Press the Back key to return to the Service Test Menu.



2.2.30 Battery Health test

This test is intended to verify the battery health status when the consumer has complained about the charging or standby time before trying to replace the battery.
When entering the battery health test menu, the screen will have:

Green writing and say 'Good, no need to replace it' if the battery is OK and red writing and say 'Bad, need to replace it' if the battery is not OK.

Press the Back key to return to the Service Test Menu.



Tests: Service Tests

2.2.31 Flip slider counter

N/A.

This test is not available for this product!

Press the Back key to return to the Service Test Menu.



2.2.32 Verify certificates

When entering the test, four information categories will be shown: Media, Shared, Platform and Application.

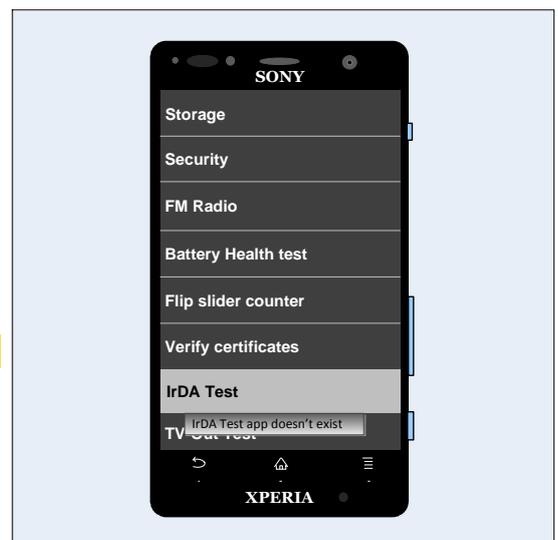
Press the Back key to return to the Service Test Menu.



2.2.33 IrDA Test

N/A.

This test is not available for this product!



Tests: Service Tests

2.2.34 HDMI Test

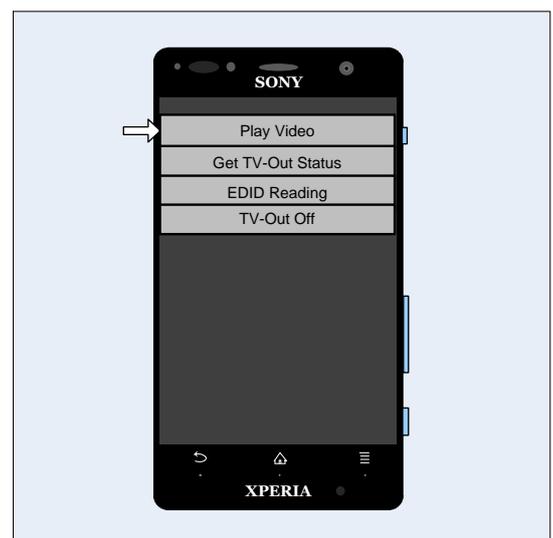
Press 'TV-Out On'.

(TV-Out Settings is usually not needed since the unit should be in automatic resolution and the HDMI monitor should set the resolution automatic. If you get no picture on the HDMI monitor you can try different resolutions under TV-Out Settings)



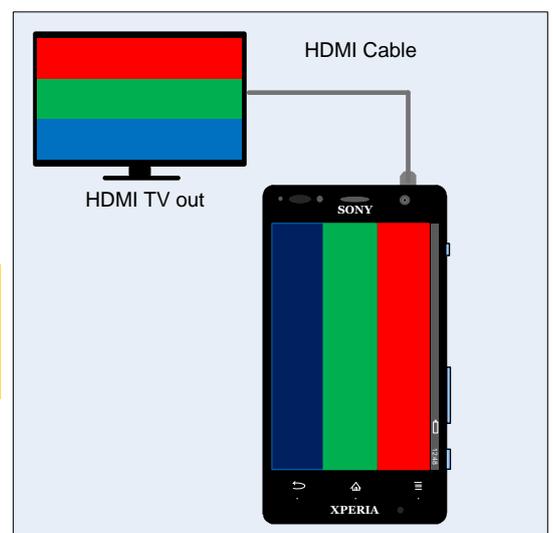
Step 1: Attach cable between phone and HDMI;

Step 2: Press 'Play Video';



Receive a test tone and a red-green-blue test picture in the HDMI Monitor and phone.

Note: If the HDMI Monitor doesn't automatically identify the picture, the Monitor may require to set the HDMI port chosen as source manually in the Monitors menus.



Tests: Service Tests

Press 'Get HDMI Status':

You should now get:

Power Status: Active

HPD Status: H

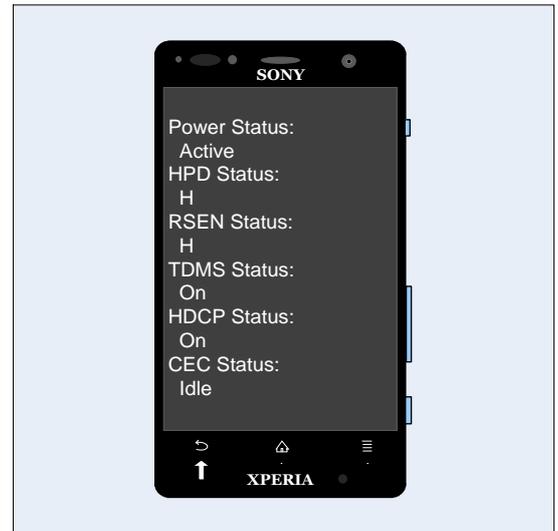
RSEN Status: H

TDMS Status: On

HDCP Status: On

CEC Status: Idle

Press the Back key to return to the Service Test Menu.



Tests

2.3 Manual Tests

2.3.1 SIM

Verify that the phone can detect a SIM card:

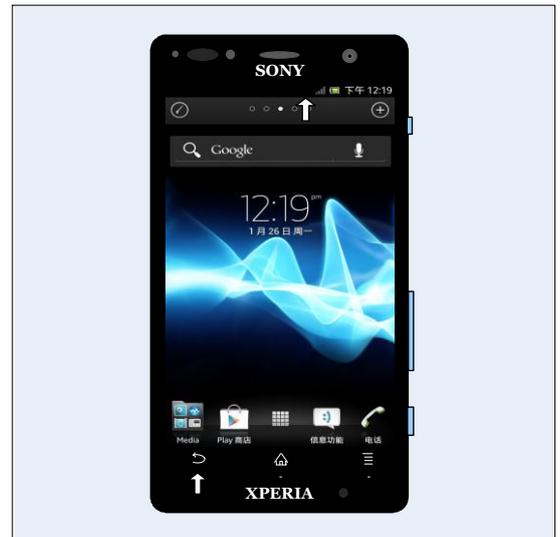
Step1: Prepare SIM card

Step2: Insert SIM card before phone starts up

Step3: Push power key to start up

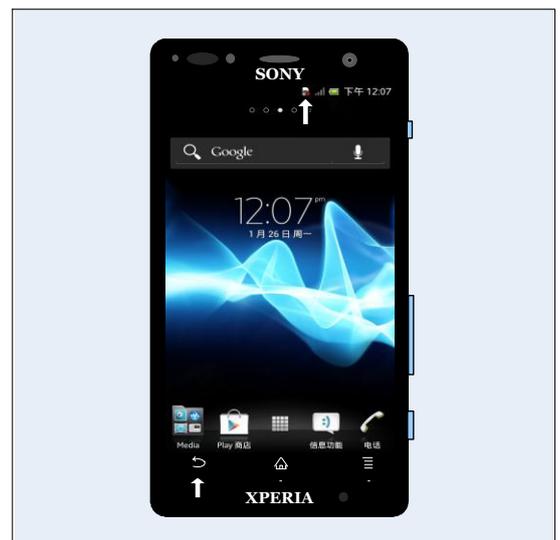
Step4: After start up, check icon which displayed on the upper right of a screen.

It will not show an icon on the top of the display if the phone can recognize the SIM card.



It will show an icon on the top of the display if the phone can't recognize the SIM card.

Press the Back key to return to Standby Menu.



2.3.2 On/Off key test

Press the Key Power for a long time to turn the phone on or off.

Press the Key Power for a short time to enter Sleep mode or to wake it up from Sleep mode.



Tests

2.3.3 Home key test

Whatever the phone shows now during operation, press the Home key for the phone go directly back to the Stand by screen.



2.3.4 Charging via USB (Charger or Computer)

Verify that the phone can charge the battery by a USB port:

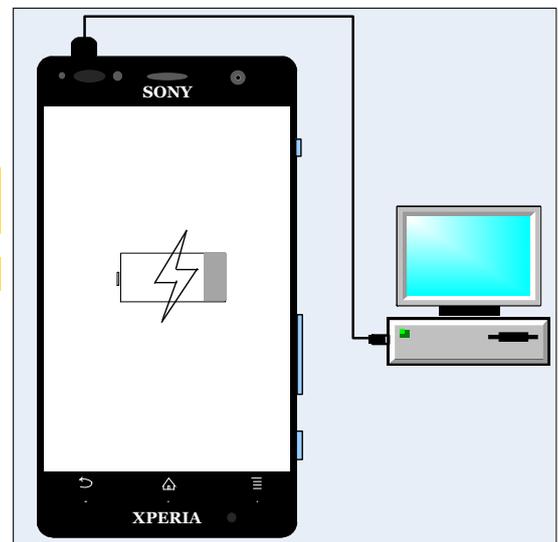
Ensure that no computer application, such as PC Suite or Emma, is active!

Do not start the phone.

Connect a USB cable from a computer or charger to the phone.

Verify that the phone is being charged by the notification LED and Battery icon in the display.

Remove the USB cable from the connector and verify that the notification LED and Battery icon no longer indicates charging.

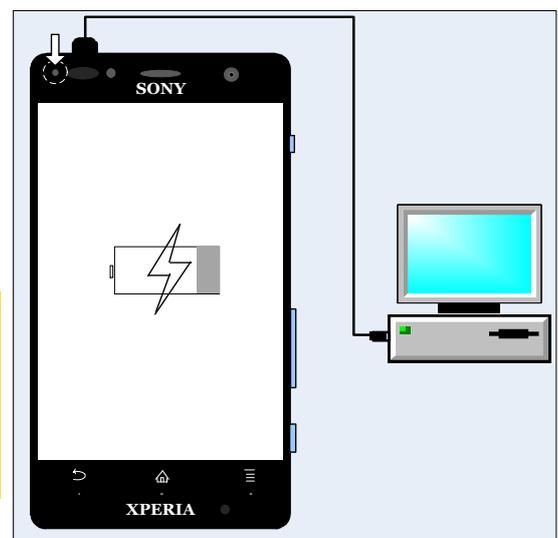


The Notification LED colour status is depended on battery remaining capacity:

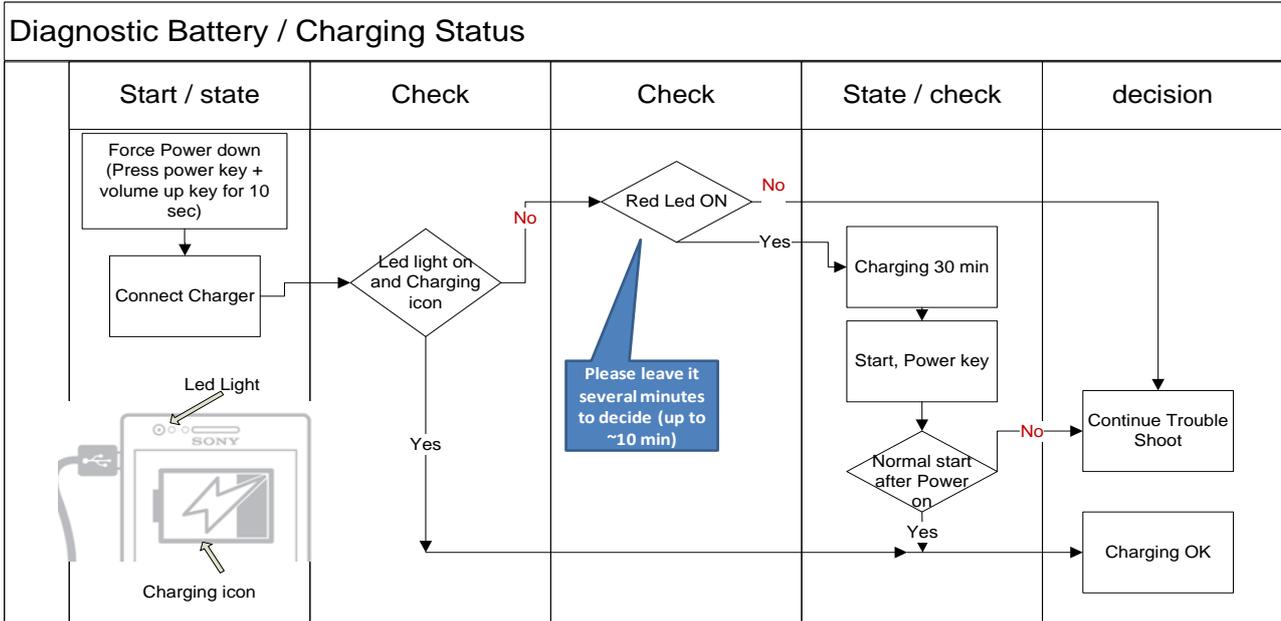
- Red: Battery level is between 1% and 10%;
- Orange: Battery level is between 11% and 89%;
- Green: Battery is between 90% and 100%;

If above fails, perform below Diagnostic battery / Charging Status check.

Perform a force shut down (Press Power key + Volume Up for 10sec). If phones vibrate three times the shutdown is performed. If no vibration is detected, the battery might be discharged.



Tests: Manual Tests



2.3.5 Charging via Charger PAD connector (Charger or Computer)

Verify that the phone can charge the battery by a Charger PAD connector:

Do not start the phone.

Insert the phone into the charging dock as shown.

Verify that the phone is being charged by the notification LED and Battery icon in the display.

Remove the phone from the charging dock and verify that the notification LED and Battery icon no longer indicates charging.

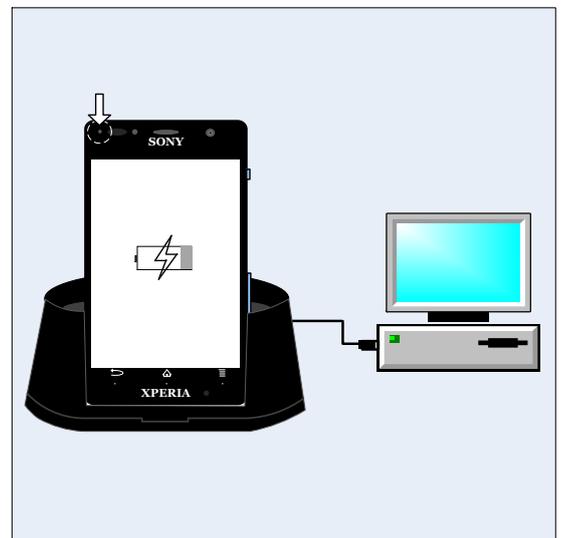


The Notification LED colour status is depended on battery remaining capacity:

- Red: Battery level is between 1% and 10%;
- Orange: Battery level is between 11% and 89%;
- Green: Battery is between 90% and 100%;

If above fails, perform below Diagnostic battery / Charging Status check.

Perform a force shutdown (Press Power key + Volume Up for 10sec). If phones vibrate three times the shutdown is performed. If no vibration is detected, the battery might be discharged.



Tests

2.4 Network Test

This test can only be performed if the phone has an activated SIM/USIM card (no Test SIM/USIM) and an available network signal!

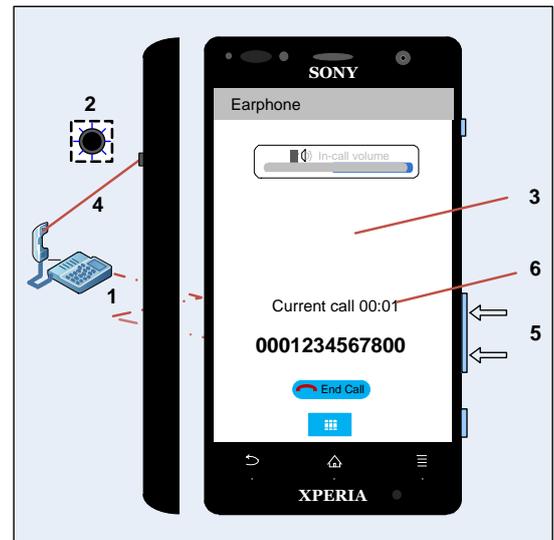
**There are two versions of the test depending on whether a UMTS network is available or not!
If a UMTS network is available, the network test has to be done separately for GSM and UMTS!**

2.4.1 On-the-air call to mobile (no UMTS network available)

To verify the radio functions (GSM) of the phone, follow the '2.4.1.1 Procedure' below:

2.4.1.1 Procedure

- Step 1: Set up a call from a landline phone (PSTN).
- Step 2: Check that there is a ring signal.
- Step 3: Check that the display backlight illuminates.
- Step 4: Answer the call and check the sound quality in both phones.
- Step 5: Adjust the volume up and down with the side keys and verify that the sound level is altered.
- Step 6: End the call and check that the elapsed time is displayed and that the termination is done properly.



2.4.2 On-the-air call to mobile (UMTS network available)

GSM

Go to the phone menu and set:

Press Menu key → *Settings* ⇒ *Wireless controls* ⇒ *Mobile Networks* ⇒ *Network mode* ⇒ *GSM only*

To verify the radio functions (GSM) of the phone, follow the '2.4.1.1 Procedure' above.

UMTS

Go to the phone menu and set:

Press Menu key → *Settings* ⇒ *Wireless controls* ⇒ *Mobile Networks* ⇒ *Network mode* ⇒ *WCDMA only*

Switch off the phone and then start it up again to enable search for an available UMTS signal.

Ensure that the UMTS/3G icon now is visible at the top of the display.

To verify the radio functions (UMTS) of the phone, follow the '2.4.1.1 Procedure' above.

3 Revision History

Rev.	Date	Changes / Comments
1	2012-Jul-27	Initial release
2	2012-Sep-14	Add chapter 1.2.2, chapter 2.3.5 and update chapter 2.2.24

SONY

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Repair Movies - mechanical -



Xperia™ acro S

LT26w

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	1.2 Reassembly	3
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To view the embedded repair movies in this document, Acrobat Reader version 8 (or later) and Flash Player version 8 (or later) must be installed on your computer.

For best picture quality, select “Actual size” or “100%” as zoom level in Acrobat Reader. To magnify while keeping an acceptable picture quality, increase the zoom level to 200%.

If the movies appear to be jerky or blurred when viewing on-line, this is probably caused by the connection speed being too slow.

In that case, right-click with the mouse on the document name and select Save Target As to download the repair movie document for off-line viewing.

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

1 Movies

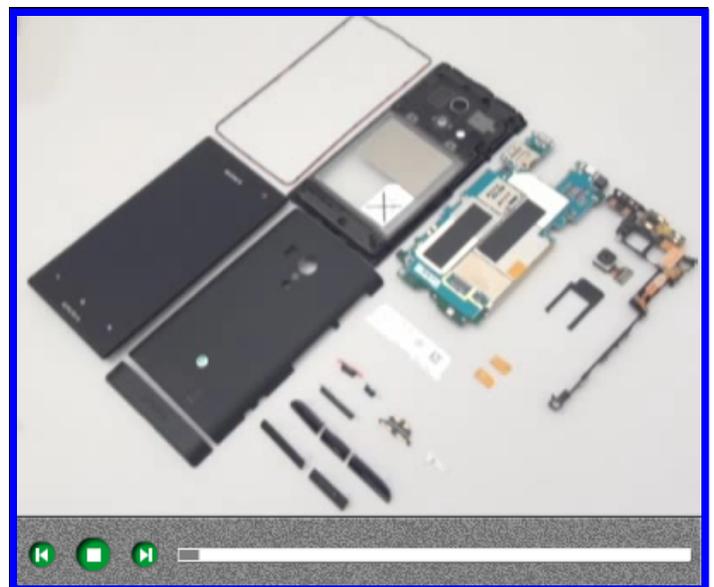
1.1 Disassembly

- SIM Connector
- Cover Bottom
- Core Unit Label
- Cover Back
- Keys (a) & Charger PAD connector (b) & Caps (c)
- Touch/Display Front Cover Assy
- Gasket Main
- Camera with the holder
- Rear Cover Assy
- Spacer Felica (a) & Sheet Key FPC (b) & PBA Flex Module (c) & PBA (d)



1.2 Reassembly

- PBA (a) & PBA Flex Module (b) & Sheet Key FPC (c) & Spacer Felica (d)
- Rear Cover Assy
- Camera with the holder
- Gasket Main
- Touch/Display Front Cover Assy
- Caps (a) & Charger PAD connector (b) & Keys (c)
- Cover Back
- Core Unit Label
- Cover Bottom
- SIM Connector



2 Revision History

Rev.	Date	Changes / Comments
1	2012-Jul-27	Initial release

SONY

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Troubleshooting Guide

- mechanical -



Xperia™ acro S

LT26w

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1 Problem Areas

1.1 Power

1.1.1 Will not power on or will switch off randomly

Check:

Check whether the phone vibrates by pressing the Key Power.

Action:

1. If activation of the Vibrator is detected, refer to section 1.4 'Display'.
2. If NO activation of the Vibrator is detected, check that the battery is charging when connected to a charger. Follow Test Instruction (Charging via USB), Diagnostic Battery / Charging status.

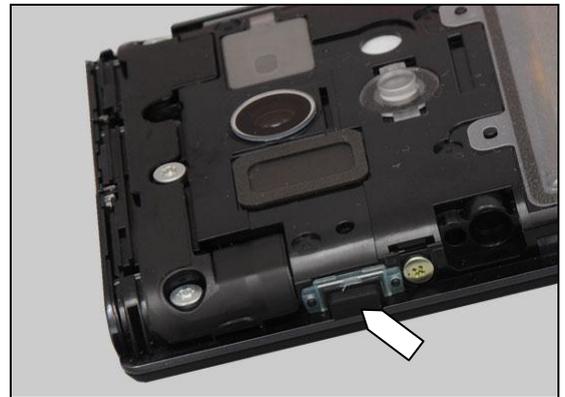


Check:

Inspect the Key Power.

Action:

1. If dirty – clean it.



2. If damaged – replace it.



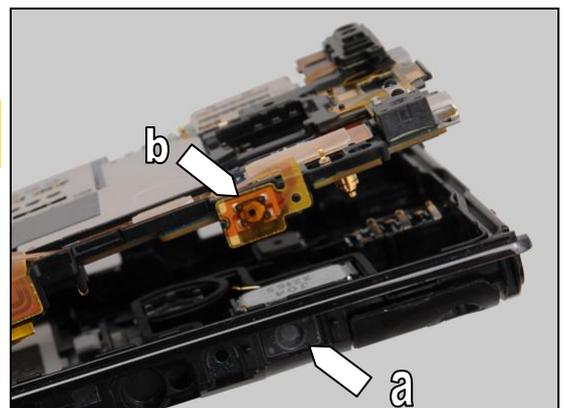
Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

Inspect the Key Gasket (a) and key power switch (b).

Action:

1. If dirty – clean them.



Problem Areas: Power

2. If the Key Gasket is damaged – replace it.



3. If the key power switch is damaged – replace the PBA Flex Module.

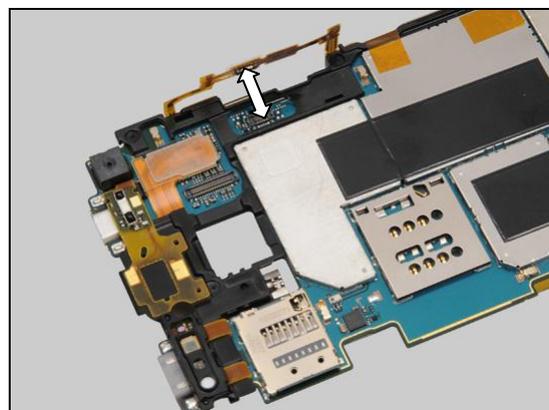


Check:

Inspect the BtB connector of PBA Flex Module to the PBA.

Action:

1. If not properly connected – disconnect and reconnect.
2. If dirty or oxidized – clean the both sides of the BtB connectors.



3. If the FPC or the BtB connector of PBA Flex Module is damaged – replace the PBA Flex Module.

4. If the BtB connector on the PBA is damaged – replace PBA.



Problem Areas: Power

Check:

Inspect the battery and the BtB connector of battery to the PBA.

Action:

1. If not properly connected – disconnect and reconnect.
2. If dirty or oxidized – clean the both sides of the BtB connectors.

3. If the Battery or its BtB connector is damaged – replace the Battery.

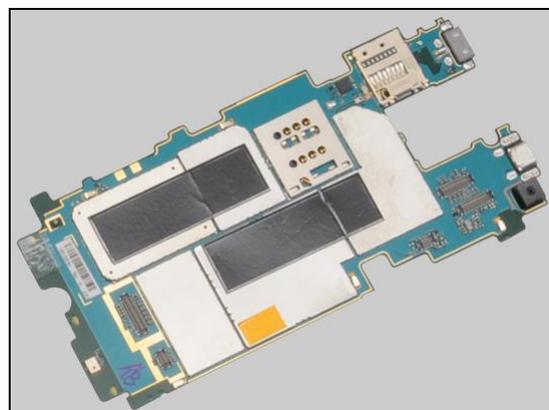
4. If the BtB connector on the PBA is damaged – replace PBA.

Check:

Check current draw in off mode by using “Dummy Battery” (max 1 mA).

Action:

If current draw is abnormal – replace PBA.



Problem Areas

1.2 Keys

1.2.1 Menu, Home and Back Keys

Check:

Inspect the menu, home and back keys on the Touch/Display Front Cover Assy.

Action:

1. Refer to the section 1.3 'Touch Screen'.
2. Replace PBA.



1.2.2 Camera Key

Check:

Inspect the external area of the Key Camera.

Action:

If dirty – clean it.



Check:

Inspect the Key Camera.

Action:

1. If dirty – clean it.



2. If damaged – replace it.



Problem Areas: Keys

Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

Inspect the Key Gasket (a) and the key camera switch (b).

Action:

1. If dirty – clean them.

2. If the Key Gasket is damaged – replace it.

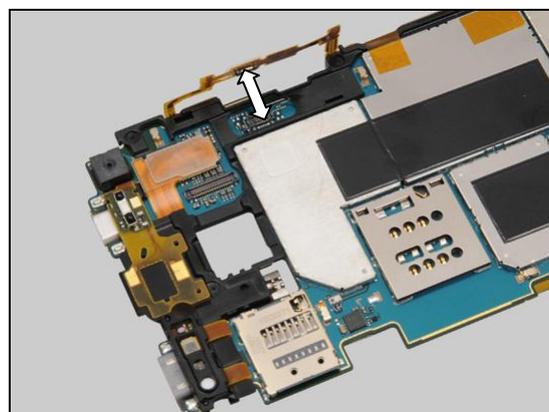
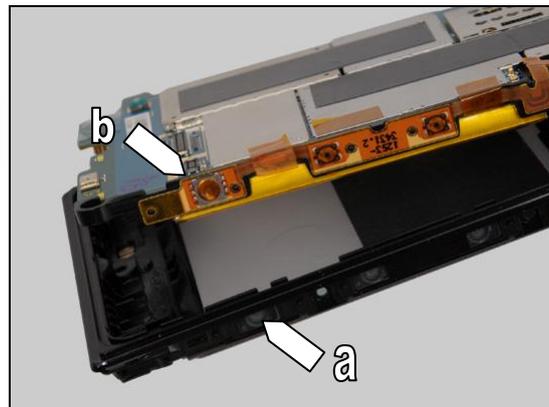
3. If the key power switch is damaged – replace the PBA Flex Module.

Check:

Inspect the BtB connector of PBA Flex Module to the PBA.

Action:

1. If not properly connected – disconnect and reconnect.
2. If dirty or oxidized – clean the both sides of the BtB connectors.



Problem Areas: Keys

3. If the FPC or the BtB connector of PBA Flex Module is damaged – replace the PBA Flex Module.
4. If the BtB connector on the PBA is damaged – replace PBA.

1.2.3 Volume Key

Check:

Inspect the external area of the Key Volume.

Action:

If dirty – clean it.

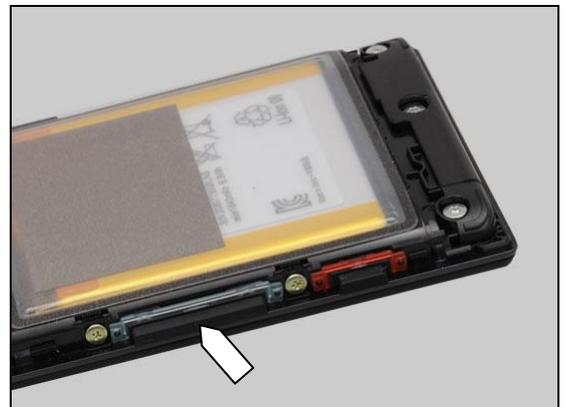
Check:

Inspect the Key Volume.

Action:

1. If dirty – clean it.

2. If damaged – replace it.



Problem Areas: Keys

Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

Inspect the Key Gaskets (a) and the key volume switch (b).

Action:

1. If dirty – clean them.

2. If the Key Gasket is damaged – replace it.

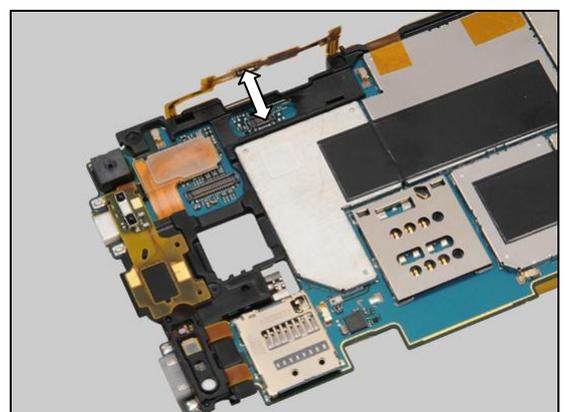
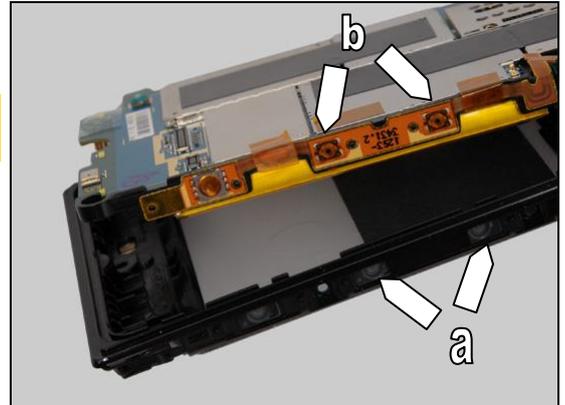
3. If the key power switch is damaged – replace the PBA Flex Module.

Check:

Inspect the BtB connector of PBA Flex Module to the PBA.

Action:

1. If not properly connected – disconnect and reconnect.
2. If dirty or oxidized – clean the both sides of the BtB connectors.



Problem Areas: Keys

3. If the FPC or the BtB connector of PBA Flex Module is damaged – replace the PBA Flex Module.
4. If the BtB connector on the PBA is damaged – replace PBA.

1.2.4 On/Off Key

Check:

Inspect the external area of the Key Power.

Action:

If dirty – clean it.

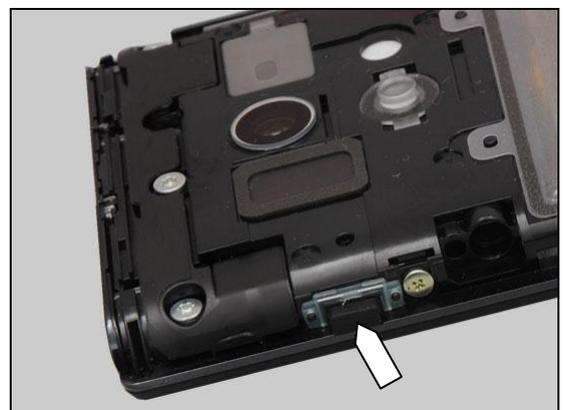
Check:

Inspect the Key Power.

Action:

1. If dirty – clean it.

2. If damaged – replace it.



Problem Areas: Keys

Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

Inspect the Key Gasket (a) and the key power switch (b).

Action:

1. If dirty – clean them.

2. If the Key Gasket is damaged – replace it.

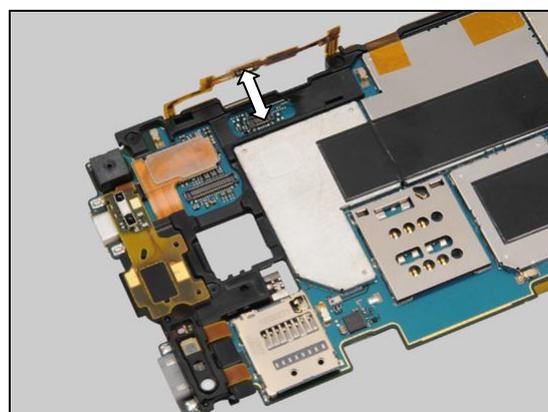
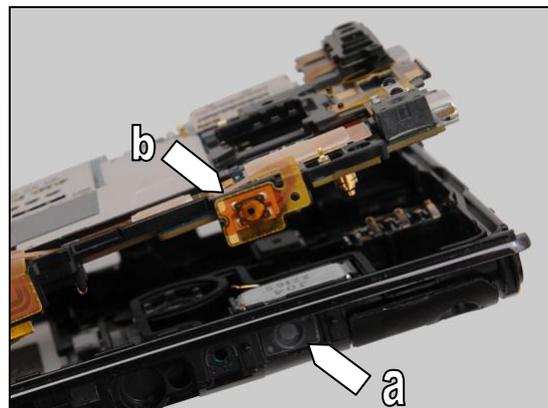
3. If the key power switch is damaged – replace the PBA Flex Module.

Check:

Inspect the BtB connector of PBA Flex Module to the PBA.

Action:

1. If not properly connected – disconnect and reconnect.
2. If dirty or oxidized – clean the both sides of the BtB connectors.



Problem Areas: Keys

3. If the FPC or the BtB connector of PBA Flex Module is damaged – replace the PBA Flex Module.
4. If the BtB connector on the PBA is damaged – replace PBA.



Problem Areas

1.3 Touch Screen

1.3.1 Touch Screen malfunction

Check:

Inspect the touch screen of the Touch/Display Front Cover Assy.

Action:

If dirty – clean it.



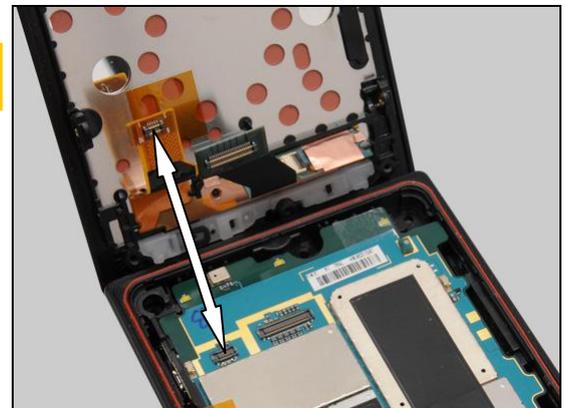
Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

Inspect the FPC and the BtB connector of the Touch/Display Front Cover Assy to the PBA.

Action:

1. If not properly connected – disconnect and reconnect.
2. If dirty or oxidized – clean the both sides of the BtB connectors.



3. If the touch screen, the FPC or the BtB connector of the Touch/Display Front Cover Assy is damaged – replace the Touch/Display Front Cover Assy.

4. Replace PBA.



Problem Areas

1.4 Display

1.4.1 Graphics & Illumination

Check:

Check whether the phone vibrates after the Key Power has been pressed.

Action:

If the activation described above is not detected, refer to section 1.1 'Power'.

Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

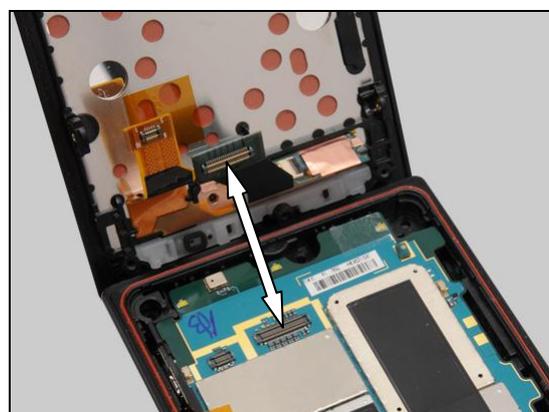
Inspect the FPC and the BtB connector of the Touch/Display Front Cover Assy to the PBA.

Action:

1. If not properly connected – disconnect and reconnect.
2. If dirty or oxidized – clean the both sides of the BtB connectors.

3. If the display, the FPC or the BtB connector of the Touch/Display Front Cover Assy is damaged – replace the Touch/Display Front Cover Assy.

4. Replace PBA.



Problem Areas:

1.5 LED/Illumination

1.5.1 LED/Illumination

Check:

Inspect the external window area of the RGB LED on the Touch/Display Front Cover Assy.

Action:

1. If dirty – clean it.



2. If the external window area is damaged – replace the Touch/Display Front Cover Assy.

Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

Inspect the RGB LED on the PBA Flex Module.

Action:

- If dirty or clogged – clean it.

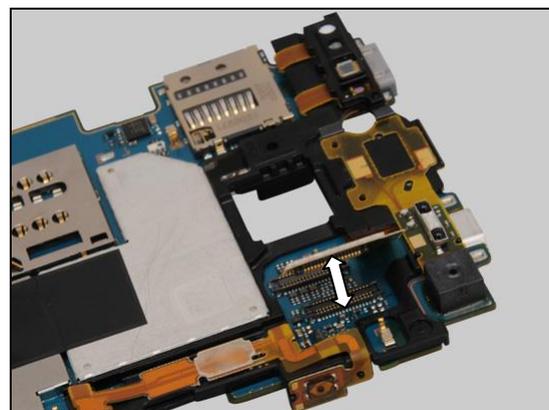


Check:

Inspect the FPC and the BtB connector of PBA Flex Module to the PBA.

Action:

1. If not properly connected – disconnect and reconnect.
2. If dirty or oxidized – clean the both sides of the BtB connectors.



Problem Areas: Illumination

3. If the RGB LED, the FPC or the BtB connector of PBA Flex Module is damaged – replace the PBA Flex Module.
4. Replace PBA.



1.5.2 Menu, Home and Back keys Illumination

Check:

Inspect the illumination window of the Menu, Home and Back keys on the Touch/Display Front Cover Assy.

Action:

If dirty – clean it.



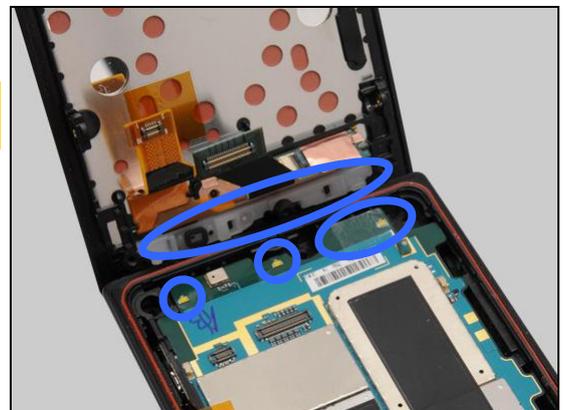
Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

Inspect the LEDs on the PBA, Sheet LED and the Lightguide Key Sub Assy.

Action:

1. If dirty – clean them.



2. If the Lightguide Key Sub Assy is damaged – replace it.



Problem Areas: Illumination

3. If the Sheet LED is damaged – replace it.
4. Replace PBA.



Problem Areas

1.6 Speaker

1.6.1 Loudspeaker

Check:

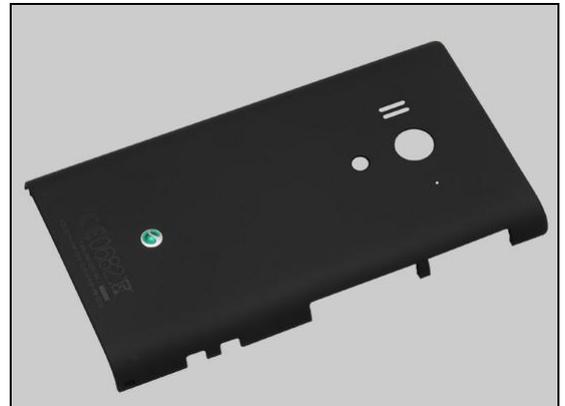
Inspect the Loudspeaker's external port on the Cover Back.

Action:

1. If the Loudspeaker external port is clogged – clean it.



2. If the Loudspeaker external port is damaged – replace the Cover Back.

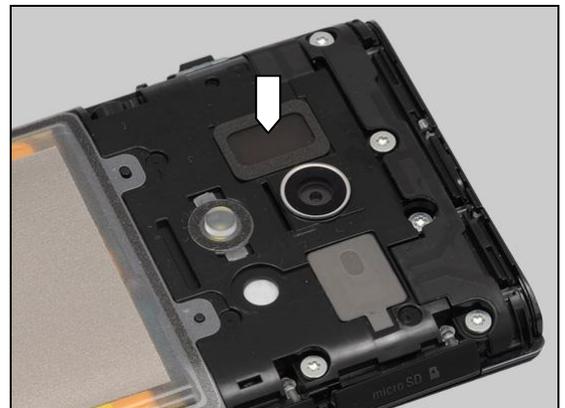


Check:

Inspect the Net Speaker of the Loudspeaker on the Rear Cover Assy.

Action:

1. If dirty – clean it.



2. If the Net Speaker is damaged – replace it.



Problem Areas: Speaker

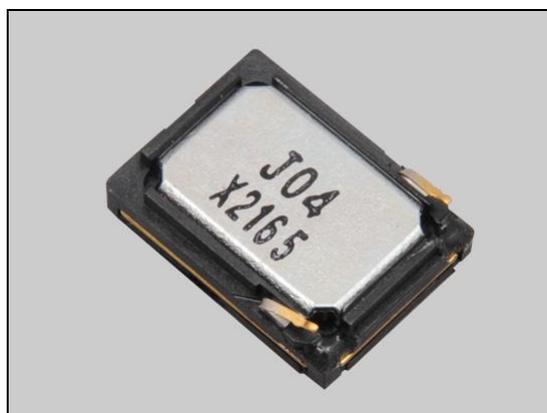
Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

Inspect the Loudspeaker's pins and the pads on the PBA.

Action:

1. If dirty – clean them.
2. If the pins of the Loudspeaker are damaged – replace the Loudspeaker.
3. Replace PBA.



Problem Areas

1.7 Earphone

1.7.1 Earphone

Check:

Inspect the Ear Speaker's external port on the Touch/Display Front Cover Assy.

Action:

1. If clogged – clean it.



2. If the port is damaged – replace the Touch/Display Front Cover Assy.

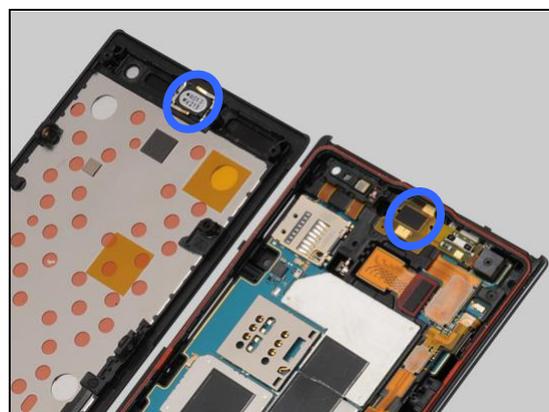
Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

Inspect the Ear Speaker's pins and the pads on the PBA Flex Module.

Action:

1. If dirty – clean them.



2. If the Ear Speaker's pins are damaged – replace the Ear Speaker.



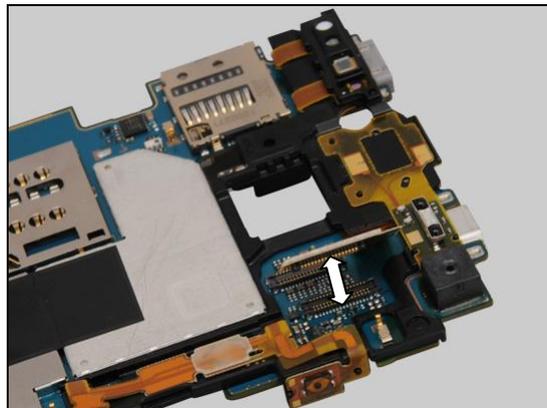
Problem Areas: Earphone

Check:

Inspect the BtB connector of the PBA Flex Module to the PBA.

Action:

1. If not properly connected – disconnect and reconnect.
2. If dirty or oxidized – clean them.



3. If the pads, the BtB connector or the FPC of the PBA Flex Module is damaged – replace the PBA Flex Module.
4. Replace PBA.



Problem Areas

1.8 Microphone

1.8.1 Microphone

Check:

Inspect the Microphone's external port on the Touch/Display Front Cover Assy.

Action:

1. If clogged – clean the port.

2. If the port is damaged – replace the Touch/Display Front Cover Assy.

Note: Ensure the BtB connector of Battery is disconnected in the following steps!

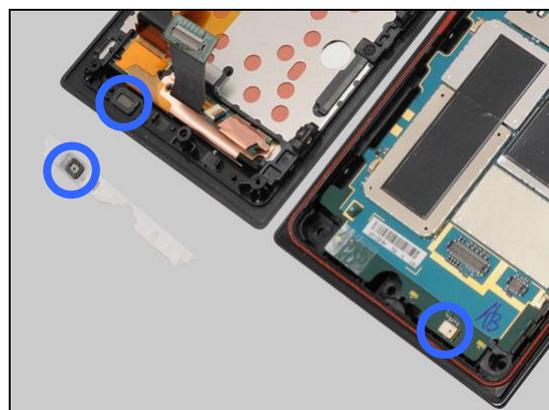
Check:

Inspect microphone mesh on the Touch/Display Front Cover Assy, the hole on the Lightguide Key Sub Assy and the Microphone on the PBA.

Action:

1. If the hole on the Lightguide Key Sub Assy or the Microphone on the PBA is dirty or clogged – clean them.

2. If microphone mesh is dirty or damaged – replace Touch/Display Front Cover Assy.



Problem Areas: Microphone

3. If the Lightguide Key Sub Assy is damaged – replace it.
4. Replace PBA.



1.8.2 Secondary Microphone

Check:

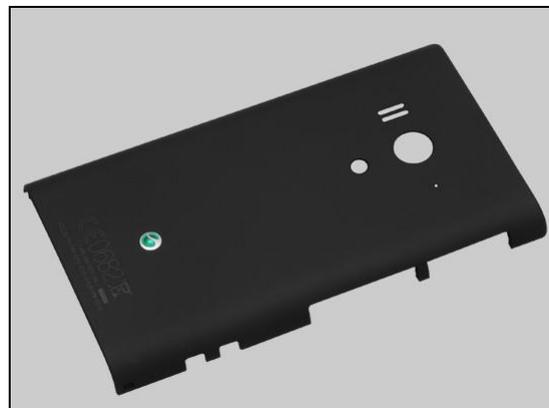
Inspect the secondary microphone's external port on the Cover Back.

Action:

1. If clogged – clean the port.

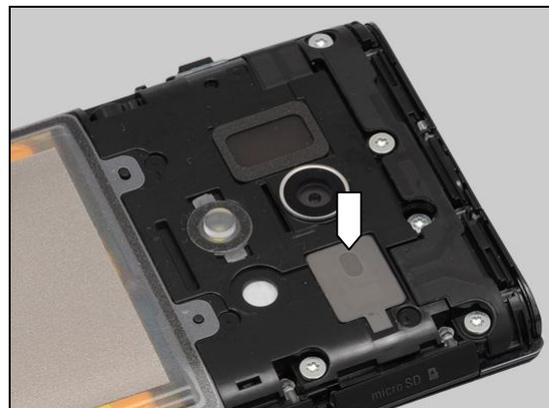


2. If the port is damaged – replace the Cover Back.



Check:

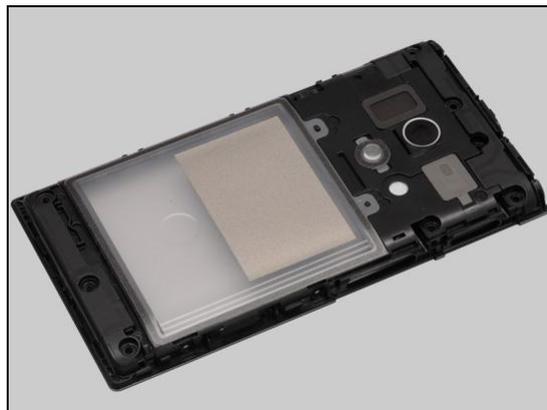
Inspect the port of the secondary microphone mesh on the Rear Cover Assy.



Problem Areas: Microphone

Action:

If the secondary microphone mesh dirty or damaged – replace the Rear Cover Assy.



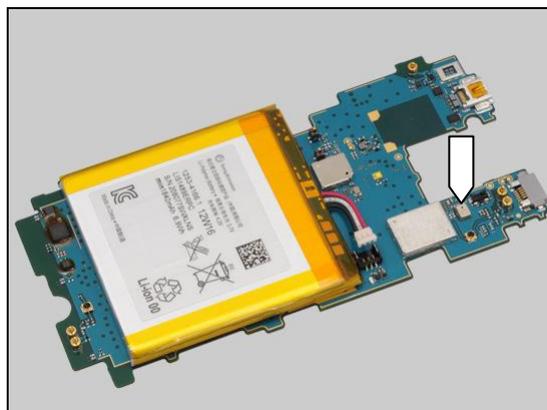
Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

Inspect the secondary microphone on the PBA.

Action:

1. If dirty – clean it.
2. Replace PBA.



Problem Areas

1.9 Vibrator

1.9.1 Vibrator not generating alerts

Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

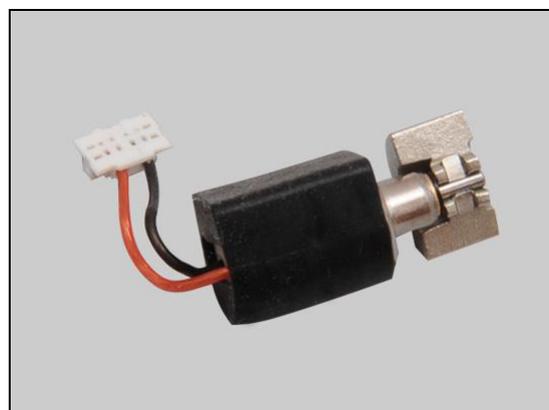
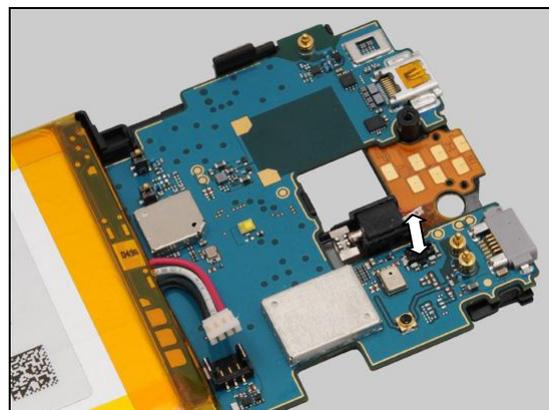
Inspect the BtB connector of the Vibrator to the PBA.

Action:

1. If not properly connected – disconnect and reconnect.
2. If dirty or oxidized – clean them.

3. If the Vibrator or its BtB connector is damaged – replace the Vibrator.

4. Replace PBA.



Problem Areas

1.10 Camera

1.10.1 Camera defects

Check:

Inspect the external area of camera window.

Action:

1. If dirty – clean it.



2. If the camera window scratched or damaged – replace the Rear Cover Assy.



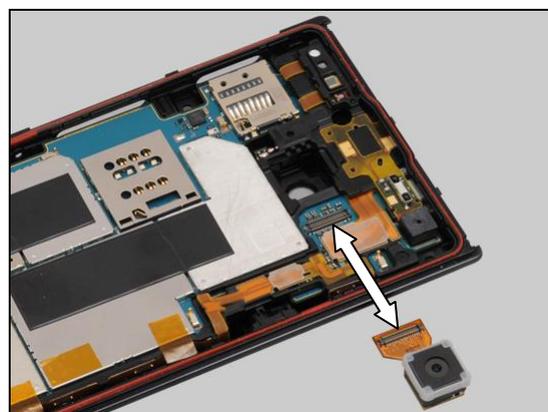
Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

Inspect the BtB connector of the Camera to the PBA.

Action:

1. If not properly connected – disconnect and reconnect.
2. If dirty or oxidized – clean both sides of the BtB connectors.

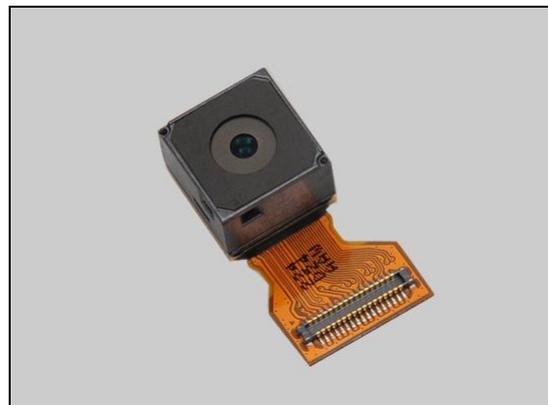


Check:

Inspect the Camera.

Action:

1. If the Camera is damaged – replace it.
2. Replace PBA.



Problem Areas

1.10.2 Video Call Camera defects

Check:

Inspect the external area of the video camera window.

Action:

1. If dirty – clean it.

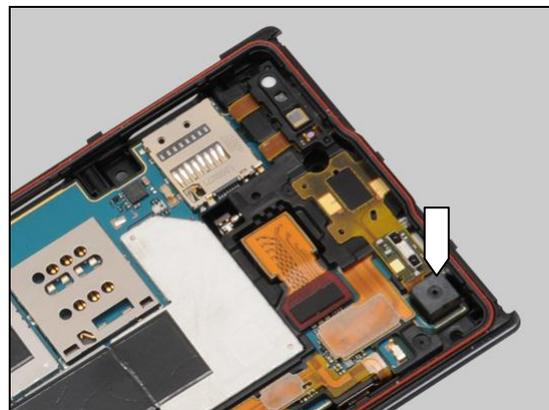
2. If scratched or damaged – replace the Touch/Display Front Cover Assy.

Check:

Inspect the video camera on the PBA.

Action:

1. If dirty or clogged – clean it.
2. Replace PBA.



Problem Areas

1.11 Flash LED

1.11.1 Flash LED not flashing

Check:

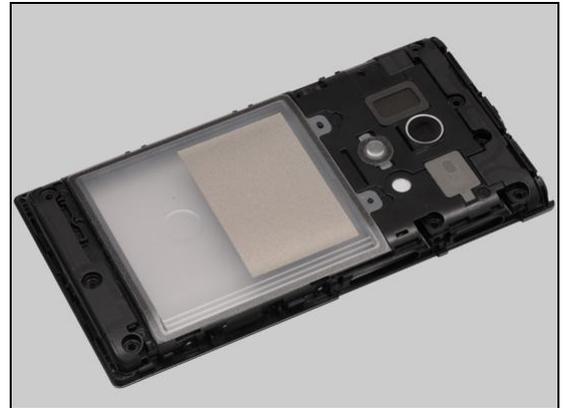
Inspect the external area of the flash LED window.

Action:

1. If the flash LED window is dirty – clean it.



2. If the flash LED window scratched or damaged – replace the Rear Cover Assy.



Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

Inspect the flash LED on the PBA.

Action:

1. If dirty – clean it.

2. Replace PBA.



Problem Areas

1.12 Bluetooth and WLAN

1.12.1 Bluetooth or WLAN connection failure

Check:

Inspect the WLAN and Bluetooth antenna on the Rear Cover Assy.

Action:

If the antenna is damaged – replace the Rear Cover Assy.

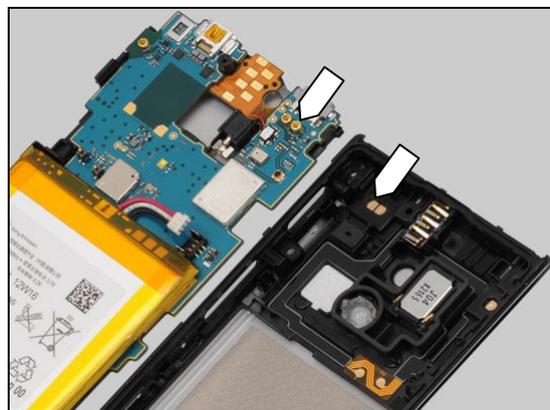
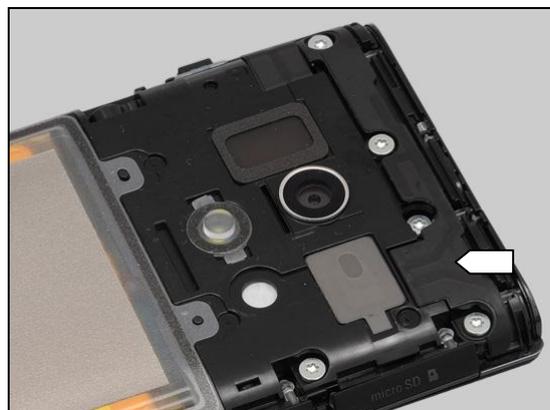
Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

Inspect the WLAN and Bluetooth antenna contact pad on the antenna assy and the contact pin on the PBA.

Action:

1. If dirty or oxidized – clean the pad and pin.
2. If the pad is damaged – replace the Rear Cover Assy.
3. Replace PBA.



Problem Areas

1.13 NFC

1.13.1 NFC malfunctions

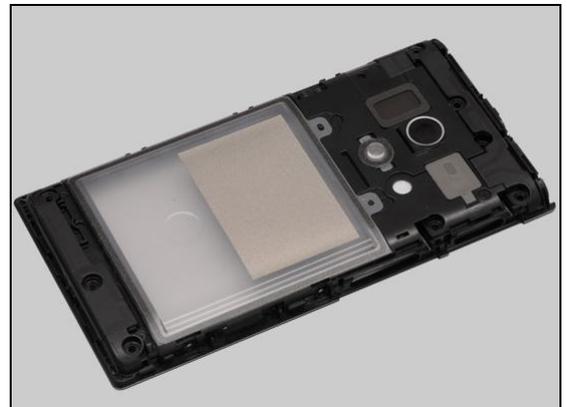
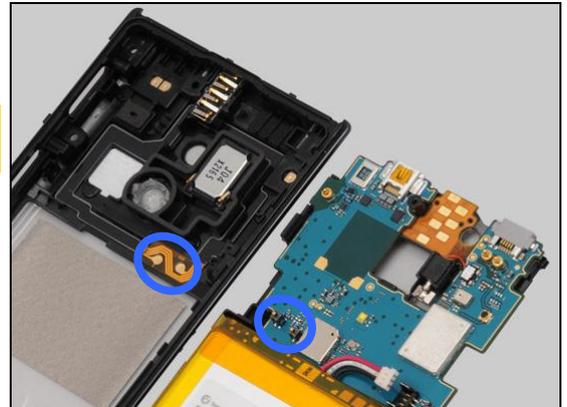
Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

Inspect the NFC antenna contact pads and the contact pins on the PBA.

Action:

1. If dirty or oxidized – clean the pads and pins.
2. If the NFC antenna or its pads is damaged – replace the Rear Cover Assy.
3. Replace PBA.



Problem Areas

1.14 GPS

1.14.1 GPS malfunctions

Check:

Inspect the GPS antenna on the Rear Cover Assy.

Action:

If the antenna is damaged – replace the Rear Cover Assy.

Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

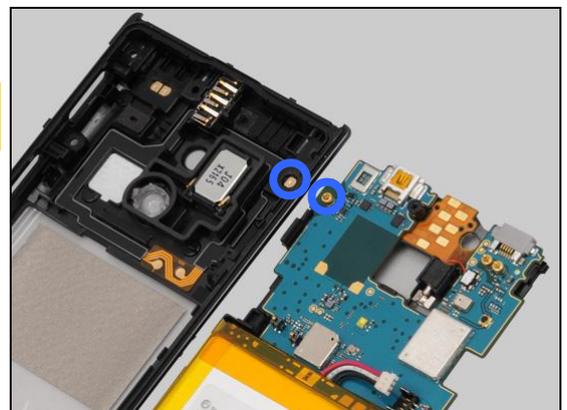
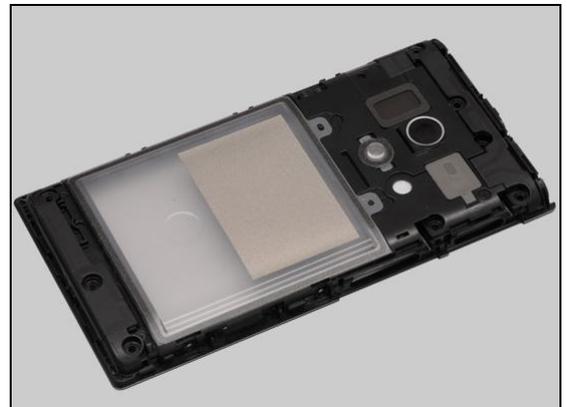
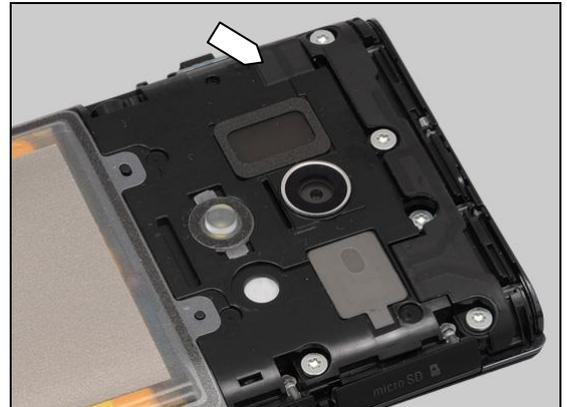
Inspect the GPS antenna contact pad on the antenna assy and the contact pin on the PBA.

Action:

1. If dirty or oxidized – clean the pad and pin.

2. If the pad is damaged – replace the Rear Cover Assy.

3. Replace PBA.



Problem Areas

1.15 Compass

1.15.1 Compass fails

Action:

Replace PBA.

Problem Areas

1.16 Accelerometer

1.16.1 Accelerometer test fails

Action:

Replace PBA.

Problem Areas

1.17 Gyroscope

1.17.1 Gyroscope test fails

Action:

Replace PBA.

Problem Areas

1.18 Ambient Light Sensor

1.18.1 Light Sensor malfunctions

Check:

Inspect the external window area of light sensor on the Touch/Display Front Cover Assy.

Action:

1. If dirty – clean it.

2. If scratched or damaged – replace the Touch/Display Front Cover Assy.

Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

Inspect the light sensor on the PBA Flex Module.

Action:

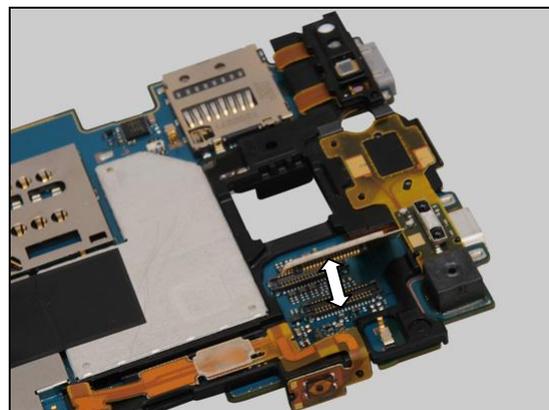
If dirty or clogged – clean it.

Check:

Inspect the BtB connector of the PBA Flex Module to the PBA.

Action:

1. If not properly connected – disconnect and reconnect.
2. If dirty or oxidized – clean them.



Problem Areas: Ambient Light Sensor

3. If the light sensor, the FPC or the BtB connector of the PBA Flex Module is damaged – replace the PBA Flex Module.
4. Replace PBA.



Problem Areas

1.19 Proximity Switch

1.19.1 Proximity switch malfunctions

Check:

Inspect the proximity sensor window area on the Touch/Display Front Cover Assy.

Action:

1. If dirty – clean it.

2. If scratched or damaged – replace the Touch/Display Front Cover Assy.

Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

Inspect the proximity sensor on the PBA Flex Module.

Action:

If dirty or clogged – clean it.

Check:

Inspect the bracket of the proximity sensor.



Problem Areas: Proximity Switch

Action:

If damaged – replace the PBA Flex Module.

Check:

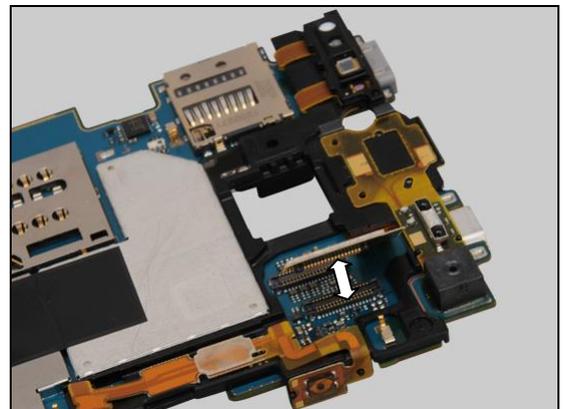
Inspect the BtB connector of the PBA Flex Module to the PBA.

Action:

1. If not properly connected – disconnect and reconnect.
2. If dirty or oxidized – clean them.

3. If the proximity sensor, the FPC or the BtB connector of the PBA Flex Module is damaged – replace the PBA Flex Module.

4. Replace PBA.



Problem Areas

1.20 Pressure Sensor

1.20.1 Pressure Sensor test fails

N/A, no pressure sensor on PBA.

Problem Areas

1.21 Water Resistance

1.21.1 Water Resistance fails

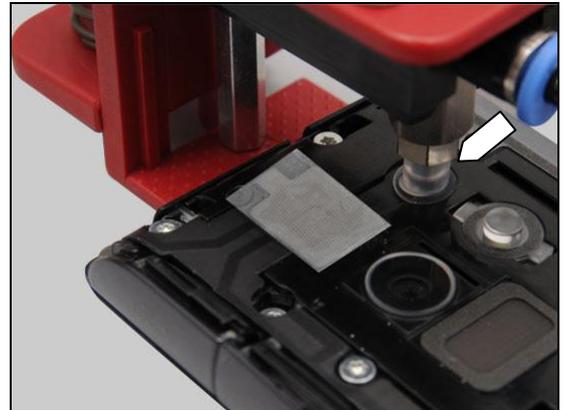
Check:

Inspect that the Vacuum Cup is correctly mounted to ventilation hole. It should be a dark circle if it is correctly placed.

Action:

Reseal ventilation hole with the Vacuum Cup.

Run the Water Resistance Test again!



Check:

Inspect that the primary microphone is properly sealed with tape.



Check:

Inspect that the secondary microphone is properly sealed with sealing adhesive.

Action:

Reseal the primary microphone with tape and the secondary microphone with sealing adhesive.

Run the Water Resistance Test again!



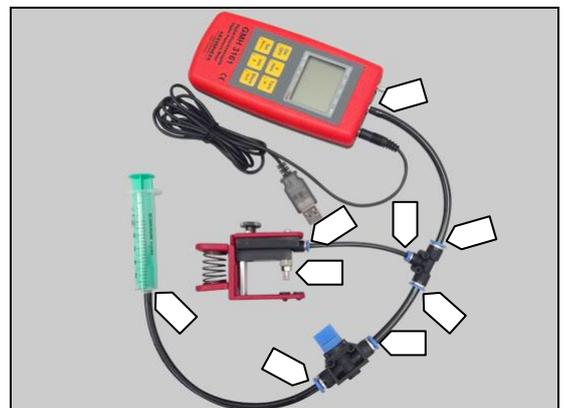
Check:

Inspect the equipment:

- Check all tubing connections as arrows shown.
- Check the Vacuum Cup sealing area and the syringe.
- Check for dirt, cracks, damages.
- Check direction on the valve.

Action:

1. If any bad connection – remount the equipment.
2. If damaged – replace the equipment.



Problem Areas: Water Resistance

3. If the arrow on the valve is not pointing to the tube connected to syringe – reconnect it in the correct direction.



Check:

Inspect the Cap SIM.

Action:

1. If dirty – clean it.
2. If not properly assembled – disassemble and reassemble.



3. If the Cap SIM is damaged – replace it.

Run the Water Resistance Test again!



Check:

Inspect the Cap Micro SD.

Action:

1. If dirty – clean it.
2. If not properly assembled – disassemble and reassemble.



Problem Areas: Water Resistance

3. If the Cap Micro SD is damaged – replace it.

Run the Water Resistance Test again!

Check:

Inspect the Cap Micro USB.

Action:

1. If dirty – clean it.
2. If not properly assembled – disassemble and reassemble.



3. If the Cap Micro USB is damaged – replace it.

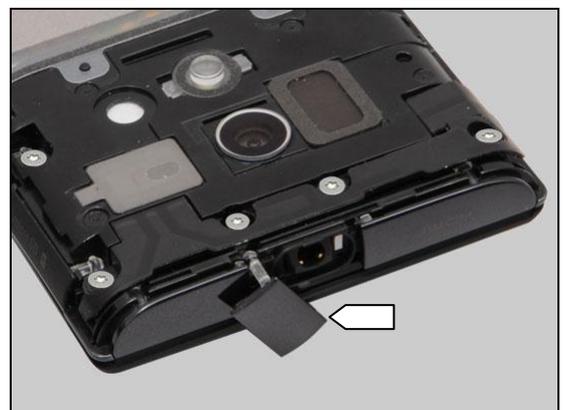
Run the Water Resistance Test again!

Check:

Inspect the Cap Audio Jack.

Action:

1. If dirty – clean it.
2. If not properly assembled – disassemble and reassemble.



Problem Areas: Water Resistance

3. If the Cap Audio Jack is damaged – replace it.

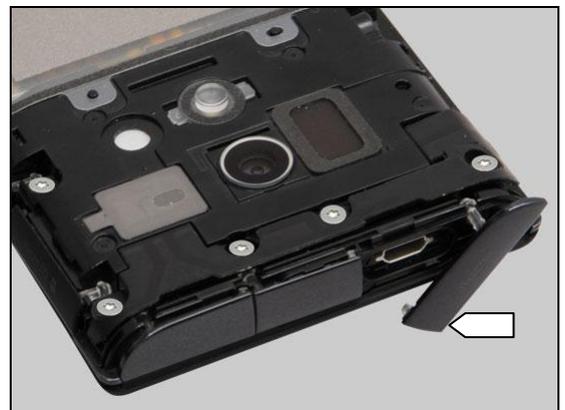
Run the Water Resistance Test again!

Check:

Inspect the Cap HDMI.

Action:

1. If dirty – clean it.
2. If not properly assembled – disassemble and reassemble.



3. If the Cap HDMI is damaged – replace it.

Run the Water Resistance Test again!

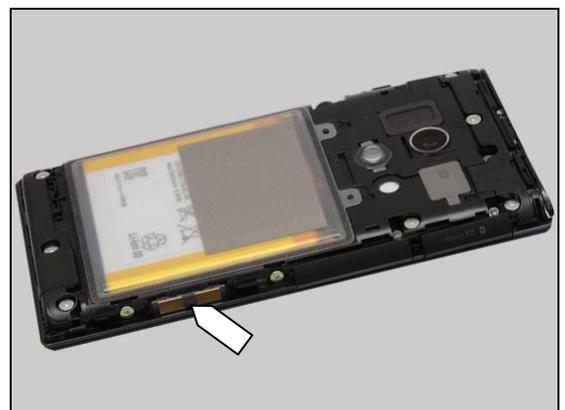


Check:

Inspect the Charger PAD connector.

Action:

1. If dirty – clean it.
2. If not properly assembled – disassemble and reassemble.



Problem Areas: Water Resistance

3. If the Charger PAD connector is damaged – replace it.

Run the Water Resistance Test again!



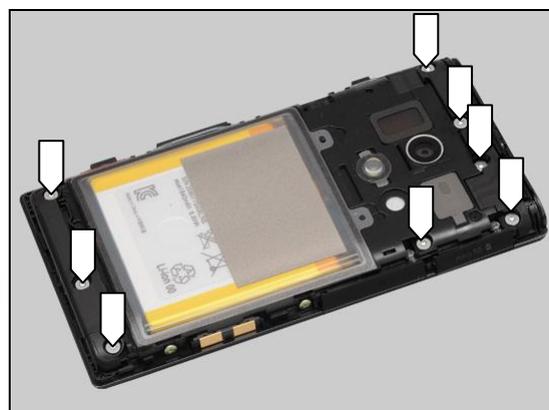
Check:

Inspect the Screw Len:5.0 Diam:1.7 O-Ring.

Action:

1. If not properly assembled – reassemble them.

Do not reuse in case of disassembling!



2. If the Screw Len:5.0 Diam:1.7 O-Ring is damaged or its gasket is damaged or missing – replace it.

Run the Water Resistance Test again!



Check:

Inspect the Screw Len:2.8 Diam:1.4 O-Ring M.

Action:

1. If not properly assembled – reassemble them.

Do not reuse in case of disassembling!



Problem Areas: Water Resistance

2. If the Screw Len:2.8 Diam:1.4 O-Ring M is damaged or its gasket is damaged or missing – replace it.

Run the Water Resistance Test again!



Check:

Inspect the Key Gasket.

Action:

1. If not properly assembled – reassemble them.

Do not reuse in case of disassembling!



2. If the Key Gasket is damaged – replace it.

Run the Water Resistance Test again!

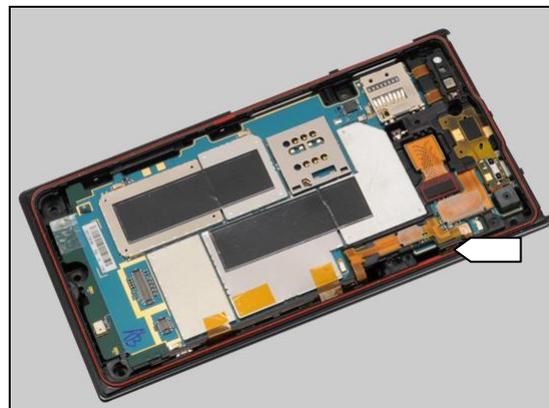


Check:

Inspect the Gasket Main.

Action:

1. If dirty – clean it.
2. If not properly assembled – disassemble and reassemble.



Problem Areas: Water Resistance

3. If the Gasket Main is damaged – replace it.

Run the Water Resistance Test again!

Check:

Inspect the Loudspeaker.

This check is only applicable for newly replaced Loudspeaker and new Rear Cover Assy.

Action:

1. If suspect that the Loudspeaker is not securely attached – press it only one time with the Press Tool Loudspeaker to make sure the Loudspeaker securely attached.

Be careful! In this action, the Loudspeaker can be pressed only once.

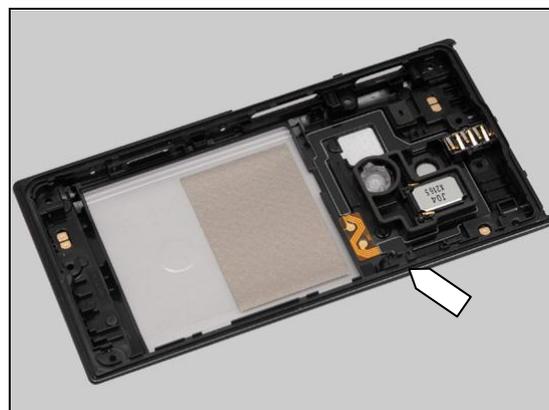
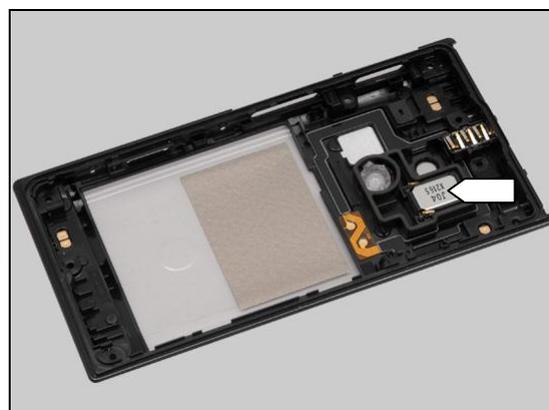
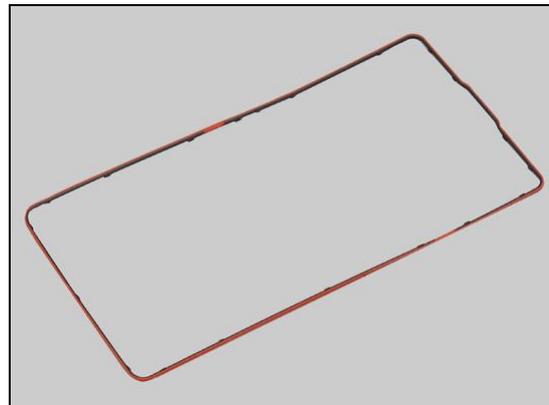
Run the Water Resistance Test again!

Check:

Inspect the cavity of the Rear Cover Assy.

Action:

1. If dirty – clean it.



Problem Areas: Water Resistance

2. If the cavity of the Rear Cover Assy is damaged – replace the Rear Cover Assy.

Run the Water Resistance Test again!



Action:

If above inspections and actions for the Rear Cover Assy are failed – replace the Rear Cover Assy.

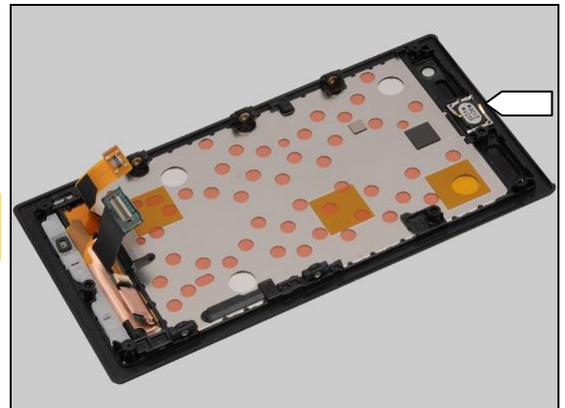
Run the Water Resistance Test again!



Check:

Inspect the Ear Speaker.

This check is only applicable for newly replaced Ear Speaker and new Touch/Display Front Cover Assy.

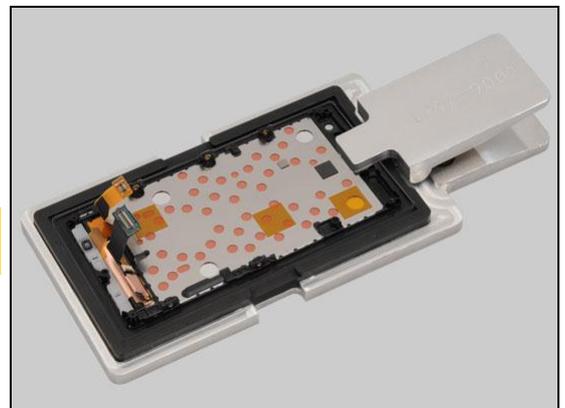


Action:

1. If suspect that the Ear Speaker is not securely attached – press it only one time with the Press Tool Earspeaker to make sure the Ear Speaker securely attached.

Be careful! In this action, the Ear Speaker can be pressed only once.

Run the Water Resistance Test again!



Problem Areas: Water Resistance

Check:

Inspect the cavity of the Touch/Display Front Cover Assy.

Action:

1. If dirty – clean it.

2. If the cavity of the Touch/Display Front Cover Assy is damaged – replace the Touch/Display Front Cover Assy.

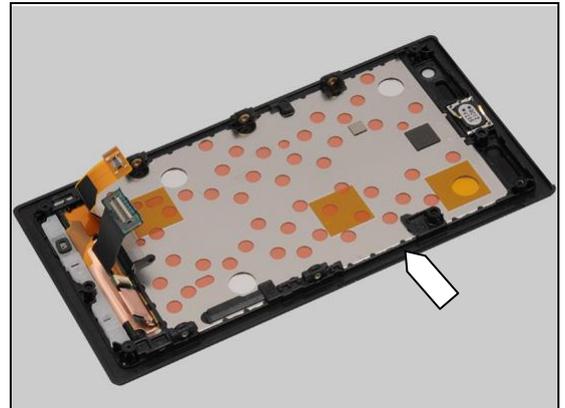
Run the Water Resistance Test again!

Action:

If above inspections and actions for the Touch/Display Front Cover Assy are failed – replace the Touch/Display Front Cover Assy.

Run the Water Resistance Test again!

If the test fails, handle the unit according to your local instruction.



Problem Areas

1.22 Real Time Clock

1.22.1 Real Time Clock test fails

Action:

Replace PBA.

Problem Areas

1.23 Total call time

1.23.1 Total call time fails

Action:

Replace PBA.

Problem Areas

1.24 External Memory

1.24.1 Memory Card not detected

Check:

Inspect the external port of the memory card holder and check if a memory card can be properly inserted.

Action:

If dirty or clogged – clean the external port.



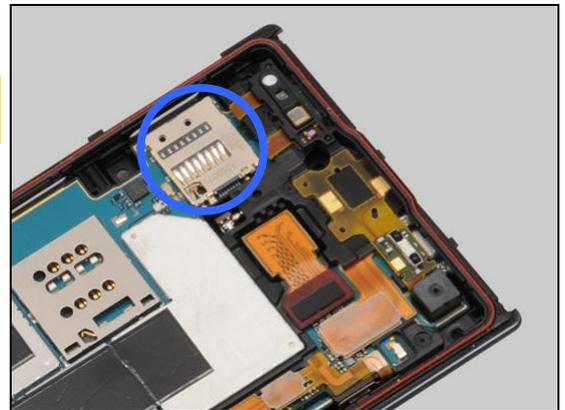
Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

Inspect the memory card holder on the PBA.

Action:

1. If dirty or clogged – clean the holder.
2. Replace PBA.



Problem Areas

1.25 Security

1.25.1 Security fails

Action:

Replace PBA.

Problem Areas

1.26 FM Radio

1.26.1 No/Poor FM Radio reception

Check:

Inspect the Audio Jack.

Action:

If dirty or oxidized – clean it.



Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

Inspect the contact pins on the Audio Jack and the contact pads on the PBA Flex Module.

Action:

1. If dirty or oxidized – clean the pads and pins.



2. If the pins are damaged – replace the Audio Jack.



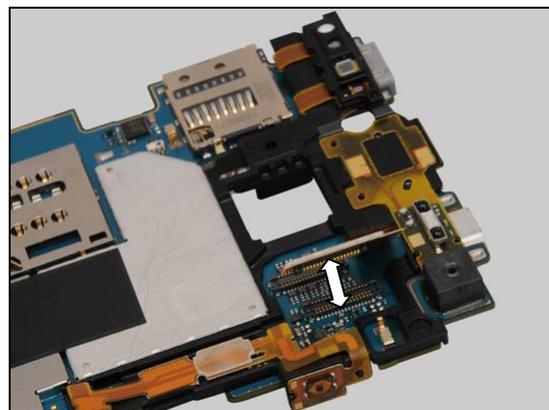
Check:

Inspect the BtB connector of the PBA Flex Module to the PBA.

Action:

1. If not properly connected – disconnect and reconnect.

2. If dirty or oxidized – clean them.



Problem Areas: FM Radio

3. If the contact pads or the BtB connector of the PBA Flex Module is damaged – replace the PBA Flex Module.
4. Replace PBA.



Problem Areas

1.27 Flip slider counter

1.27.1 Flip slider counter fails

Action:

N/A. Not slider phone.

Problem Areas

1.28 Verify Certificates

1.28.1 Verify certificates fails

Action:

Replace PBA.

Problem Areas

1.29 IrDA Test

1.29.1 IrDA test fails

Action:

N/A. No IrDA functionality in the phone.

Problem Areas

1.30 TV-Out Test

1.30.1 TV-Out test fails

Check:

Inspect the HDMI connector.

Action:

1. If dirty or oxidized – clean the connector.
2. Replace PBA.



Problem Areas

1.31 Connector Ground Test

1.31.1 Connector ground test fails

Action:

N/A. This test is not applicable for this product.

Problem Areas

1.32 Network & Signal

1.32.1 No/Poor signal

Check:

Inspect the main antenna on the Rear Cover Assy.

Action:

If the main antenna is damaged – replace the Rear Cover Assy.

Note: Ensure the BtB connector of Battery is disconnected in the following steps!

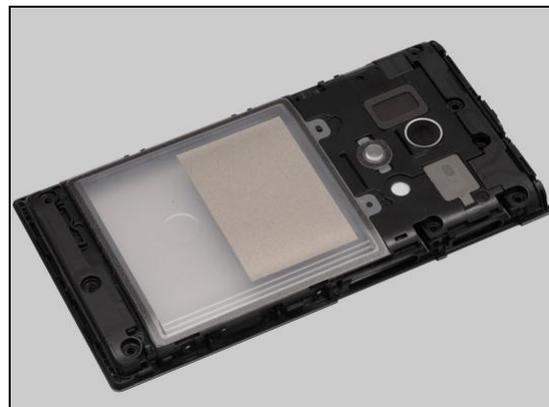
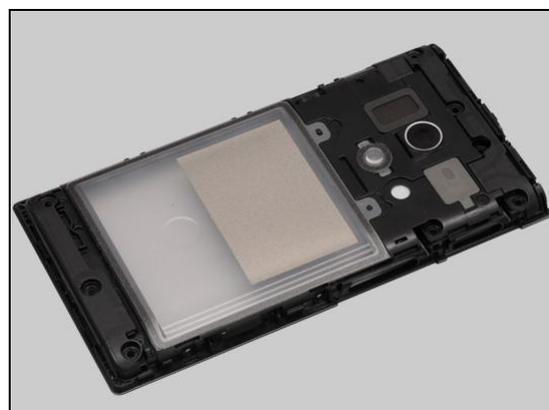
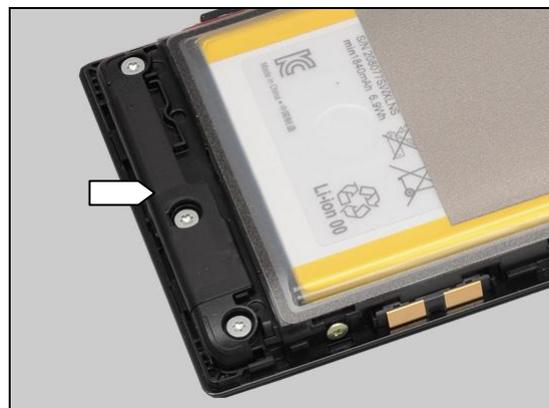
Check:

Inspect contact pads on the main antenna and contact pins on the PBA.

Action:

1. If dirty or oxidized – clean the pads and pins.

2. If the contact pads are damaged – replace Rear Cover Assy.



Problem Areas: Network & Signal

Check:

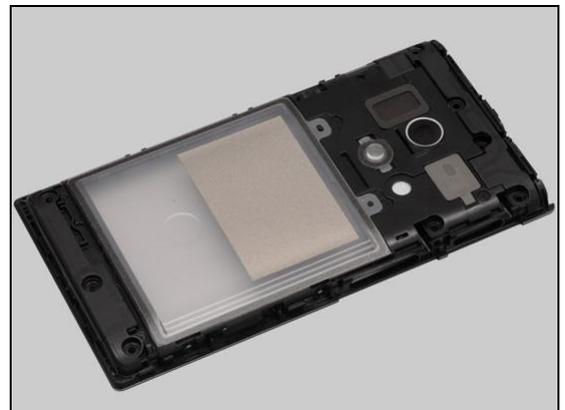
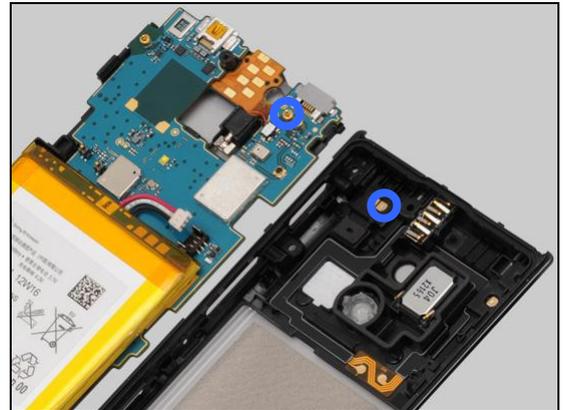
Inspect the contact pad on the antenna assy and the contact pin on the PBA.

Action:

1. If dirty or oxidized – clean the pad and pin.

2. If the pad is damaged – replace Rear Cover Assy.

3. Replace PBA.



Problem Areas

1.33 SIM

1.33.1 SIM not detected

Check:

Inspect the external port of the SIM card holder and check if a SIM card can be properly inserted.

Note the orientation of the SIM connector to be installed!

Action:

If dirty or clogged – clean the external port.



Check:

Inspect the SIM connector.

Action:

1. If dirty – clean it.
2. If damaged – replace it.



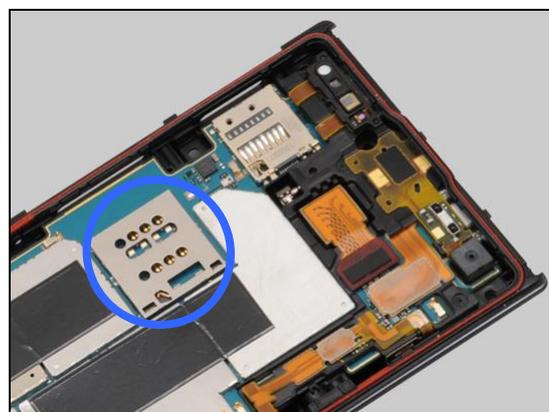
Note: Ensure the BtB connector of Battery is disconnected in the following step!

Check:

Inspect the SIM card holder on the PBA.

Action:

1. If dirty or clogged – clean the holder.
2. Replace PBA.

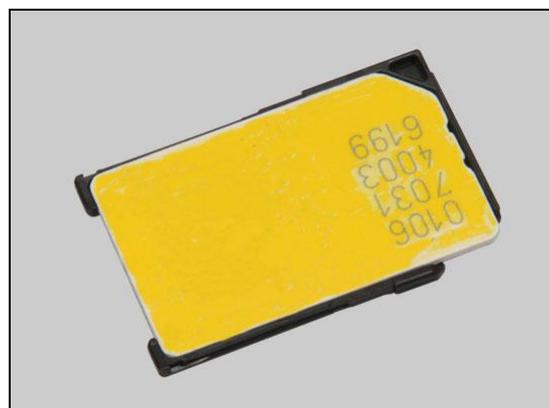


Check:

Check whether the SIM card is assembled onto SIM Connector correctly.

Action:

1. Put SIM card onto SIM Connector.



Problem Areas: SIM

2. Turn over the SIM Connector with SIM card.



3. Insert the SIM Connector with SIM card into its connector.

4. Replace PBA.



1.33.1 Incorrect SIM-Card adapter

Check:

Check the SIM-Card adapter is from LT26w or not if the Micro SIM card is used.

Note: Only LT26w SIM-Card adapter (1257-9796) can be used in LT26w Phone. Other supplier's SIM-Card adapter or incompatible SIM-Card adapter will damage the SIM Card connector!

Action:

1. Use a proper LT26w SIM-Card adapter (1257-9796).
2. If SIM Card connector is damaged, deal with it according to local directive.

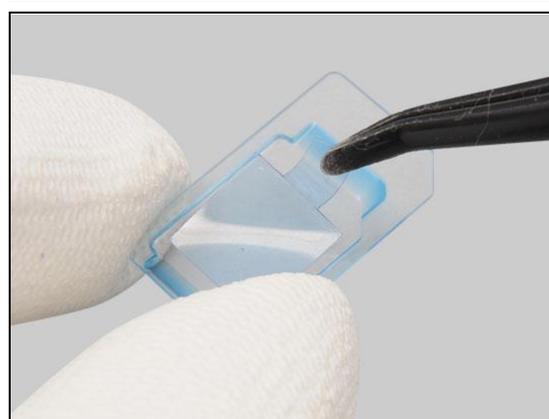


Check:

Check whether the SIM-Card adapter is used correctly.

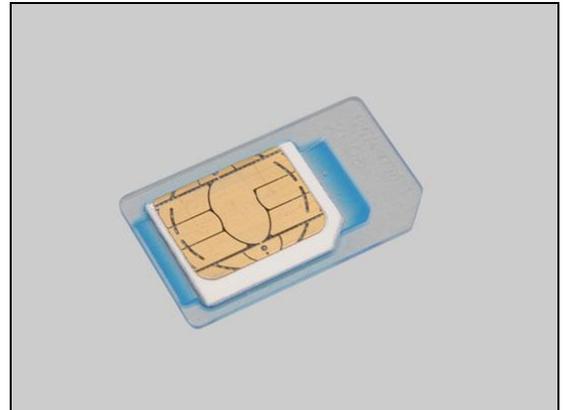
Action:

1. Peel off the protection tape from SIM-Card adapter.



Problem Areas: SIM

2. Assemble the Micro SIM card onto SIM-Card adapter.



3. Assemble this SIM-Card adapter with Micro SIM card onto SIM Connector.



4. Turn over the SIM Connector with Micro SIM card.



5. Insert this SIM Connector assembly into its connector.
6. Replace PBA.



Problem Areas: SIM

1.33.2 Incorrect SIM indicated

Check:

Check whether the phone is locked to a particular operator and whether the correct operator SIM is being used.

Action:

1. Use a proper operator SIM or test SIM.
2. Replace PBA.



Problem Areas

1.34 Charging

1.34.1 Battery will not charge via USB connector

Check:

Inspect the USB connector.

Action:

1. If dirty or oxidized – clean the connector.
2. If damaged – Replace PBA.



Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

Inspect the BtB connector of Battery to the PBA.

Action:

1. If not properly connected – disconnect and reconnect.
2. If dirty or oxidized – clean the both sides of the BtB connectors.



3. If the Battery or its BtB connector is damaged – replace the Battery.
4. Replace PBA.



1.34.2 Battery will not charge via Charger PAD connector

Check:

Inspect the Charger PAD.

Action:

If dirty or oxidized – clean the connector.



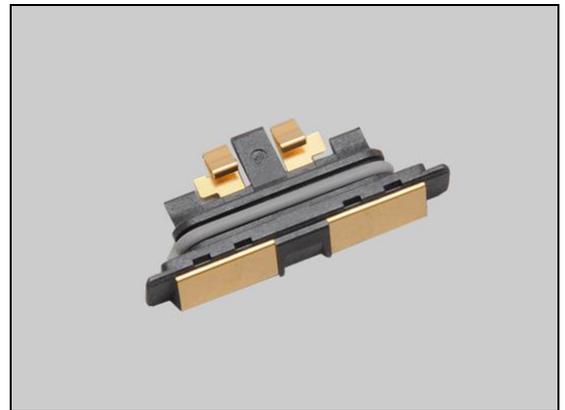
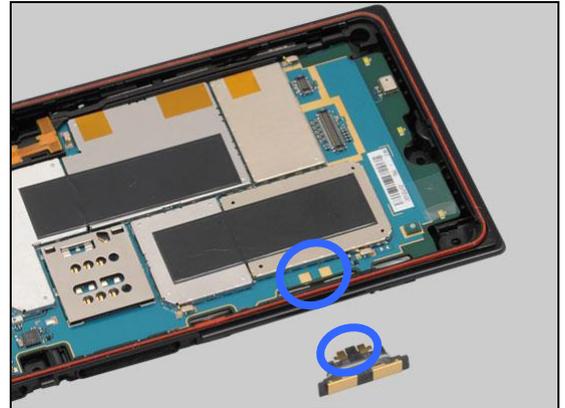
Problem Areas: Charging

Check:

Inspect the contact pins of the Charger PAD connector and the pads on the PBA.

Action:

1. If dirty or oxidized – clean them.
2. If the Charger PAD connector or its contact pins are damaged – replace the Charger PAD connector.
3. If the contact pads are damaged – replace PBA.



Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

Inspect the BtB connector of Battery to the PBA.

Action:

1. If not properly connected – disconnect and reconnect.
2. If dirty or oxidized – clean the both sides of the BtB connectors.
3. If the Battery or its BtB connector is damaged – replace the Battery.
4. Replace PBA.



Problem Areas

1.35 HandsFree by Wire

1.35.1 Connection to Portable HandsFree fails

Check:

Inspect the Audio Jack.

Action:

If dirty or oxidized – clean the connector.



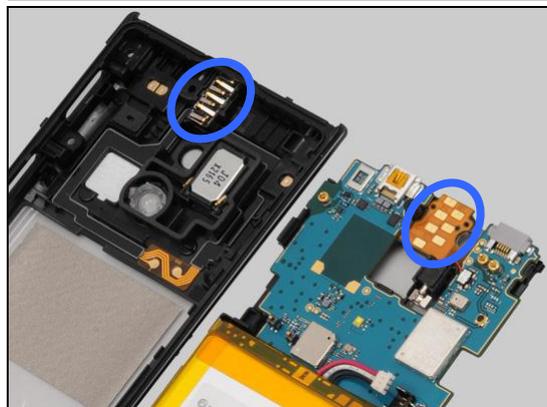
Note: Ensure the BtB connector of Battery is disconnected in the following steps!

Check:

Inspect the contact pins on the Audio Jack and the contact pads on the PBA Flex Module.

Action:

1. If dirty or oxidized – clean the pads and pins.



2. If the contact pins are damaged – replace the Audio Jack.

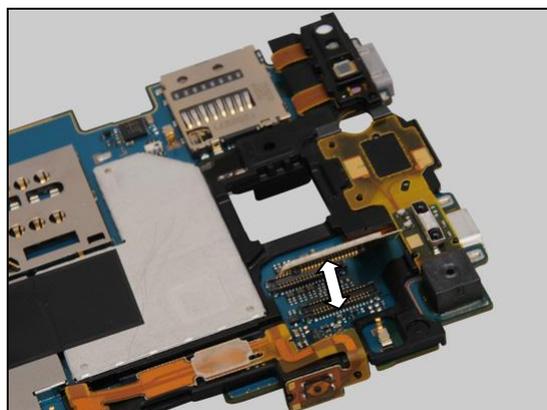


Check:

Inspect the BtB connector of the PBA Flex Module to the PBA.

Action:

1. If not properly connected – disconnect and reconnect.
2. If dirty or oxidized – clean them.



Problem Areas: HandsFree by Wire

3. If the contact pads, the FPC or the BtB connector of the PBA Flex Module is damaged – replace the PBA Flex Module.

4. Replace PBA.



Problem Areas

1.36 Data Communication

1.36.1 Data transfer via System Connector fails

Check:

Inspect the USB connector.

Action:

1. If dirty or oxidized – clean the connector.
2. Replace PBA.



2 Revision History

Rev.	Date	Changes / Comments
1	2012-Jul-27	Initial release
2	2012-Sep-14	Update chapter 1.34

SONY

make.believe

Part List - mechanical -



Xperia™ acro S

LT26w

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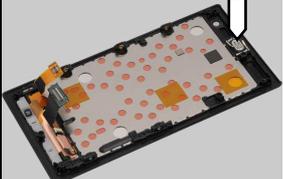
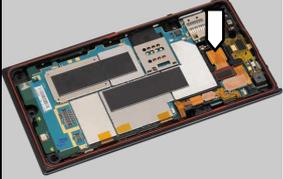
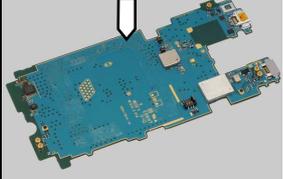
1 Part List

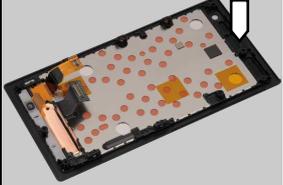
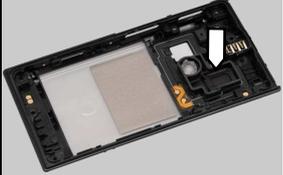
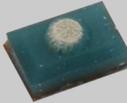
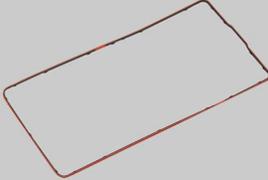
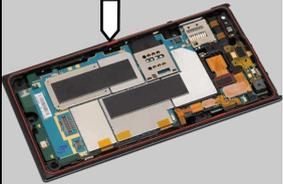
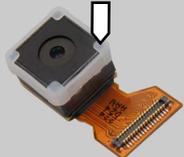
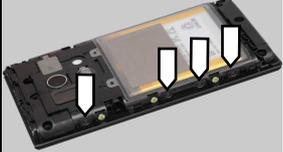
The following parts are available for order in 'E-star'.

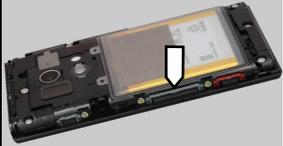
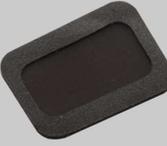
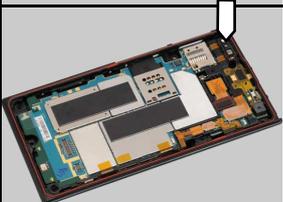
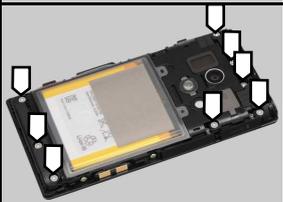
The 'E-star' name of a part may often be complex and even confusing, so the name of certain parts mentioned in the Working Instructions, Repair Movies and Troubleshooting Guide are often referred to by a simple descriptive name for better understanding.

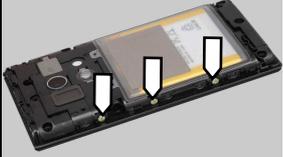
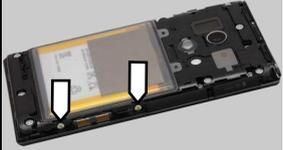
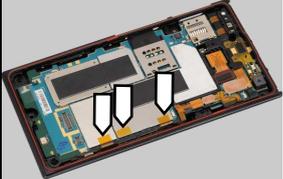
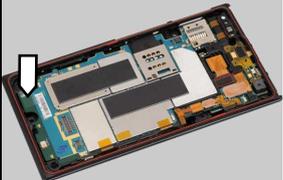
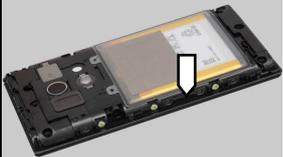
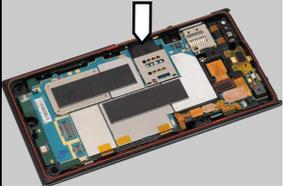
Both names (designations) will in that case be included in this Part List, where the name being used in the documents mentioned above is underlined, e.g. Battery Cover.

Designation	Part No.	Part	Location
Audio Jack	1242-3994		
Battery	1253-4166		
<u>Cap Audio Jack</u> Cap Audio Jack Black Cap Audio Jack White Cap Audio Jack D-Pink	 1253-4738 1257-0181 1257-0184		
<u>Cap HDMI</u> Cap HDMI Black Cap HDMI White Cap HDMI D-Pink	 1253-4712 1257-0170 1257-0173		
<u>Cap Micro SD</u> Cap Micro SD Black Cap Micro SD D-Pink Cap Micro SD D-White	 1253-4800 1257-0229 1261-7616		
<u>Cap Micro USB</u> Cap Micro USB Black Cap Micro USB White Cap Micro USB D-Pink	 1253-4757 1257-0196 1257-0199		
<u>Cap SIM</u> Cap SIM Black Cap SIM D-Pink Cap SIM D-White	 1253-4783 1257-0212 1261-7614		

Designation	Part No.	Part	Location
Charger PAD connector	1255-3812		
Core Unit Label	1253-4855		
<u>Cover Back</u> Cover Back Black Cover Back White Cover Back Pink	1265-0782 1266-5400 1266-5401		
<u>Cover Bottom</u> Cover Bottom Black Cover Bottom White Cover Bottom Pink	1253-4857 1266-5670 1266-5679		
Ear Speaker	1252-7376		
<u>Camera</u> FICTIVE Camera 13.1 M	1252-6695		
Foil Adhesive Audio Jack	1253-4632		
Foil Adhesive Battery	1253-4563		

Designation	Part No.	Part	Location
Foil Adhesive WP Receiver	1253-4093		
Foil Adhesive WP Speaker	1253-4616		
Gasket Dot Connector	1255-5010		
Gasket Main	1253-4692		
Holder Camera	1253-4558		
<u>Key Camera</u> Key Camera Black Key Camera D-Pink Key Camera D-White	1253-4836 1257-0343 1261-7622		
Key Gasket	1253-4704		
<u>Key Power</u> Key Power Black Key Power D-Pink Key Power D-White	1253-4822 1257-0333 1261-7619		

Designation	Part No.	Part	Location
<u>Key Volume</u> Key Volume Black Key Volume D-Pink Key Volume D-White	1253-4828 1257-0339 1261-7620		
<u>Label NFC</u> Label NFC Black Label NFC White	1263-1518 1264-6322		
Lightguide Key Sub Assy	1253-4125		
Loudspeaker	1252-7372		
Net Speaker	1253-4613		
PBA Flex Module	1253-3431		
<u>Rear Cover Assy</u> Rear Cover Assy Black Rear Cover Assy White Rear Cover Assy Pink	1266-6015 1266-9695 1266-9709		
Screw Len:5.0 Diam:1.7 O-Ring	1253-4694		

Designation	Part No.	Part	Location
Screw Len:2.8 Diam:1.4 O-Ring M	1253-4697		
			
Sheet Key FPC	1263-7952		
Sheet LED	1263-7948		
Sheet volume key	1262-5045		
SIM Connector	1255-4576		
Spacer Felica	1255-5491		
Touch/Display Front Cover Assy Touch/Display Front Cover Assy Black Touch/Display Front Cover Assy White Touch/Display Front Cover Assy Pink	1266-0987 1266-9687 1266-9702		

Designation	Part No.	Part	Location
<u>Vibrator</u> Vibr Bar Analog AC S003	1231-8585		
Water Indicator	1255-4136		
			

2 Revision History

Rev.	Date	Changes / Comments
1	2012-Jul-27	Initial release
2	2012-Aug-03	No change

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Go/No Go Test - electrical -



Xperia™ acro S

LT26w

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This product is ONLY implemented in SERP II

1 Go/No Go Testing

This Go/No Go testing has to be carried out in one way, with an:

- Antenna Coupler.

For more information on Antenna Coupler and Cable in shield box testing, refer to 1220-1336: Generic Repair Manual – electrical, section ‘Setup Go/NoGo Test’!

For part no’s on the equipment below, refer to the ‘Tools Catalogue/Matrix’!

1.1 Antenna Coupler

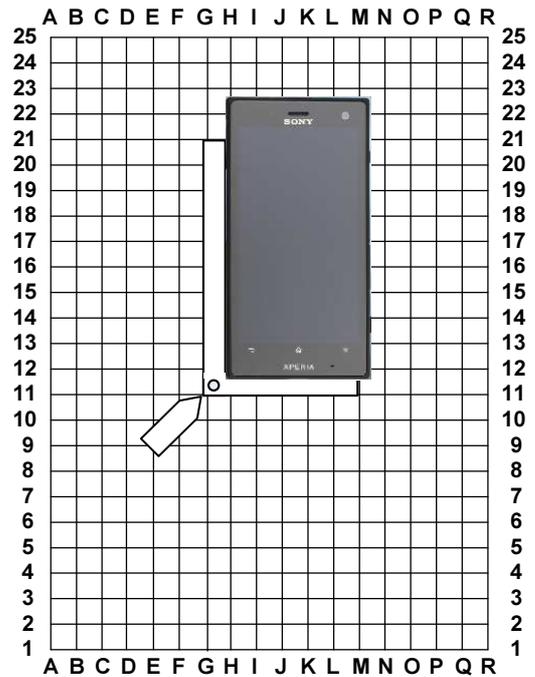
The following equipment has to be used:

- Rohde & Schwartz RF Shield Package
 - Rohde & Schwartz RF Shield Box
 - Rohde & Schwartz RF Coupler
 - Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- USIM Card, instrument specific

GSM-850/900/1800/1900

WCDMA-850/900/1900/2100

Put the grid positioning holder with its reference point in position **G11** and place the phone as shown in the adjacent picture.



Go/NoGo Testing

Follow the directions stated in 'Go/NoGo Test Script Parameters' to be found in 1220-1336: Generic Repair Manual – electrical, together with the 'Attenuation Factors' below!

This phone is available in one version, LT26w, including the following bands:

LT26w:

GSM-850/900/1800/1900

WCDMA-850/900/1900/2100

Go/NoGo Testing

1.2 Attenuation Factors

The attenuation values listed below in 1.2.1 are valid only when the equipment listed on the previous pages is being used!

1.2.1 Loss Values – Antenna Coupler

Band	Channel	Attenuation LT26w	
		Rx	Tx
GSM 850	Low	5.00	10.11
	Mid	5.00	8.87
	High	5.00	7.05
GSM 900	Low	9.50	4.31
	Mid	6.00	3.61
	High	7.00	3.96
GSM 1800	Low	13.00	15.92
	Mid	12.50	14.56
	High	9.00	13.96
GSM 1900	Low	11.50	11.81
	Mid	11.00	9.69
	High	11.00	10.12
WCDMA 850	Low	5.00	8.62
	Mid	5.00	9.69
	High	5.00	6.44
WCDMA 900	Low	6.00	5.62
	Mid	6.00	8.69
	High	6.00	4.44
WCDMA 1900	Low	8.00	15.72
	Mid	11.00	11.02
	High	13.00	11.05
WCDMA 2100	Low	12.00	9.64
	Mid	11.00	11.74
	High	11.00	12.95

2 Revision History

Rev.	Date	Changes / Comments
1	2012-July-30	Initial release
2	2012-Aug-03	No change

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Customization - build swap -



Xperia™ acro S

LT26w

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2.3.1	Customize to Ship	7
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For general information about Customization and Swap, refer to 1221-5655: Generic Repair Manual – build swap

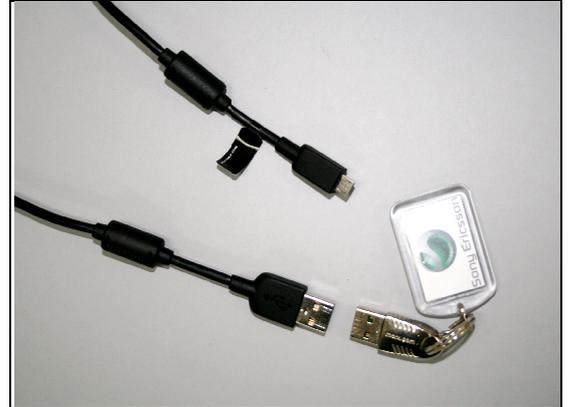
1 Emma Login & Script Execution

In order to change a phone from Customer A to Customer B you must run a 'Customization Script' followed by an 'Activation Script'.

Start by launching the Emma application.

Connect the Micro USB to USB cable to one of the computer's USB ports but do not connect the cable to the phone.

The USB Activation Dongle has to be inserted into one of the computer's USB ports to be able to log in.



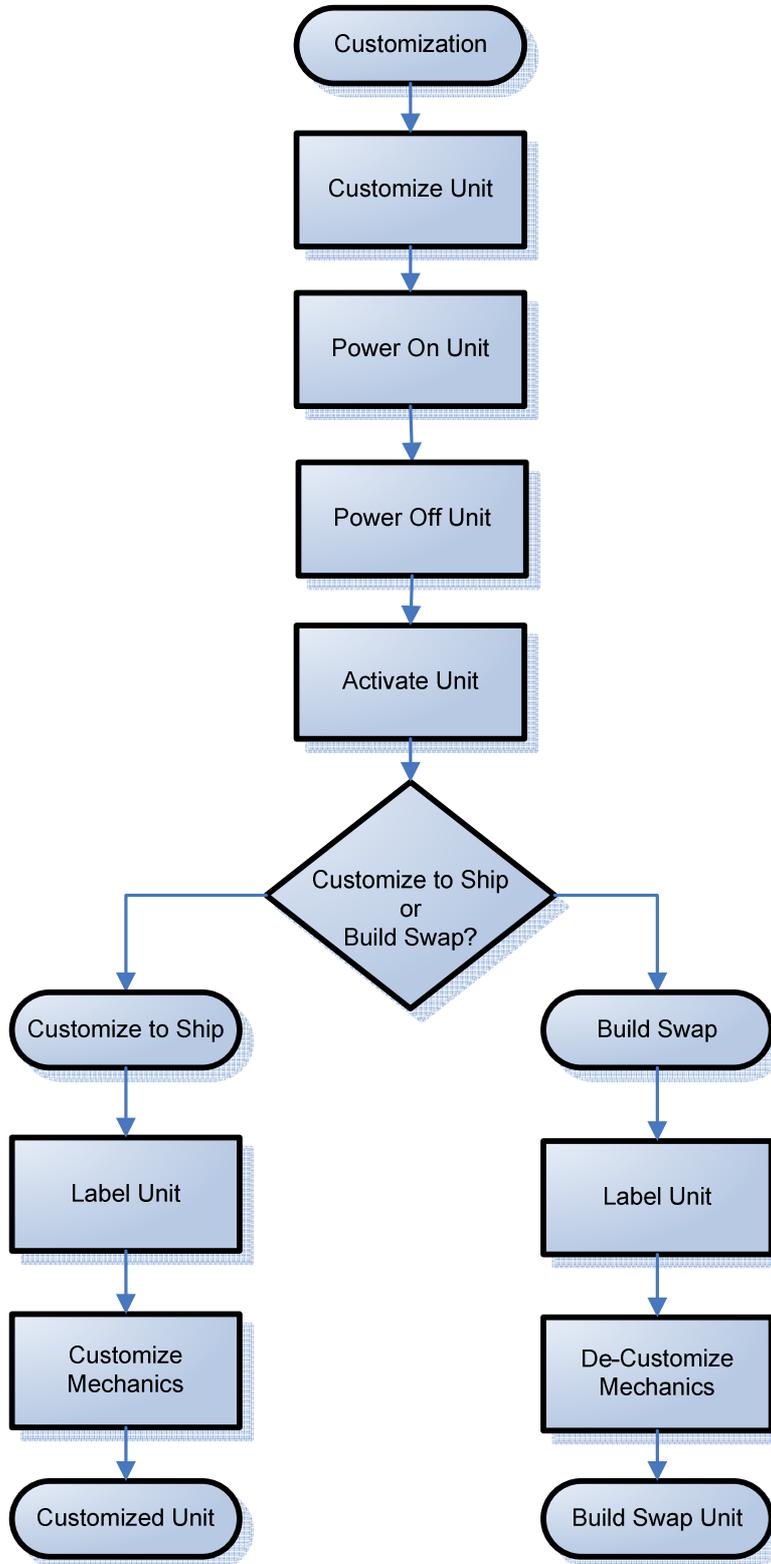
To execute a 'Customization' or 'Activation' you need to be properly logged on to the Emma application by using your User ID and Password.

To execute a 'Customization Script' or 'Activation Script' (or any other function):

- check that the phone is powered off
- press and keep the "Volume Down" key down on the phone
- connect the phone to the USB Cable
- release the "Volume Down" key

When executing an 'Activation Script' you will be prompted for the PIN of your USB Activation Dongle.

2 Customization Workflow



Customization Workflow

The primary reason for the customization process is to create a customized unit.

A customized unit is a unit that is ready to ship as a final swap unit.

The second reason for customization is to create “build swap” units and this can be done by selecting the ‘Service Exchange Unit’ customization script for the particular model.

The instruction steps below refer to the flowchart on previous page.

2.1 Customize Unit

After following the steps in section 1, ‘Emma Login & Script Execution’, you can customize a phone as follows:

- look for the Customize script for the desired Sales Item
- if that script is not available locally, select ‘Server search’ for a complete list of available scripts.

When creating a ‘build swap’ unit, select “LT26w Service Exchange Unit” as the customization scripts!

- choose the desired script
- the application will download all necessary software to run the script and then flash that software to the phone
- after successful update, disconnect the phone from the USB Cable

NOTE: For phones with eMMC flash memory (built in “SD card” memory), the only service which erase this eMMC memory is Service’s “Refurbish” and “Customize”. See also emma User Guide info. http://emma.extranet.sonyericsson.com/documents/emma_user_guide.pdf (see “Service Types” and “Aspects of large files”)

In Swap flow, when change a phone from Customer A to Customer B, always use the service Customization script.

Customization Workflow

2.2 Power on unit

Press the **Key Power** to power on the unit, place unit on the flat desk and wait until system boot up has been completed.

Please DO NOT move the unit during starting up until “Select Language” menu is shown on the display!

Customization Workflow

2.3 Customize to Ship or Build Swap

Is the unit a customized unit to be shipped?

Yes – proceed to 2.2.1 Customize to Ship

No – go to 2.2.2 Build Swap

2.3.1 Customize to Ship

2.3.1.1 Label Unit

Print two Core Unit labels by using 'Labe Print Solution'.

Place one label on the phone as described in *1267-1071: Working Instructions – mechanical*.

Place the second label on the Exchange Unit Box.

2.3.1.2 Customize Mechanics

If necessary, apply the proper custom mechanical parts (co-branding, keyboard, etc.) for the variant being created in accordance with the *Cross Reference List* by following the instructions of *1267-1071: Working Instructions – mechanical*

2.3.2 Build Swap

2.3.2.1 Label Unit

Using a red marker, label the unit with the correct Exchange Unit number.

Refer to the *Cross Reference List* for the appropriate variant, which should be based on the non-customizable mechanics of the unit.

2.3.2.2 De-Customize Unit

Remove any co-branding as described in *1267-1071: Working Instructions – mechanical*

3 Revision History

Rev	Date	Changes / Comments
1	2012-Jul-27	Initial release
2	2012-Aug-03	No change