

# SONY

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## Test Instructions

- mechanical -



**Xperia™ Z1**  
**L39t, L39u, C6916**

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

**If there are no special indications of 'L39t/L39u Specific', 'L39u Specific' or 'C6916 Specific', L39t, L39u and C6916 share the same test instruction as common sections, whose pictures are used with L39t. 'L39t/L39u Specific' chapters use L39t pictures.**

## 1 Pre-Test Preparation

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

Follow the process according to the 1269-3536 Water Resistant Test for PC - mechanical in the including document Test Instruction WRT

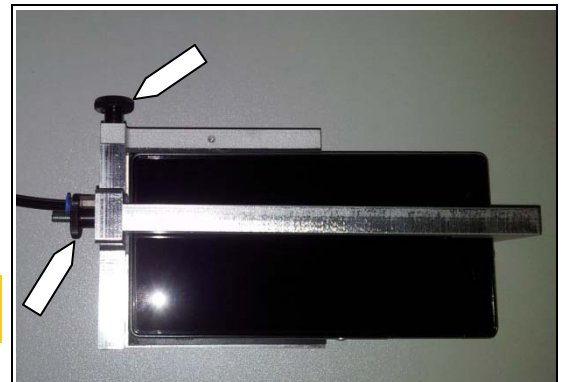
Remove the Speaker Panel following Working Instruction-1278-7506.



Install the "WRT Inlay plate" into the generic "WRT Generic Side Inlay"

Connect it according to 1269-3536 Water Resistant Test for PC - mechanical in the including document Test Instruction WRT.

**Notice! Secondary microphone hole on the back of the phone must be sealed before test.**



Attach Speaker Panel following Working Instruction 1278-7506.



## Pre-Test Preparations

### 1.2 Hardware

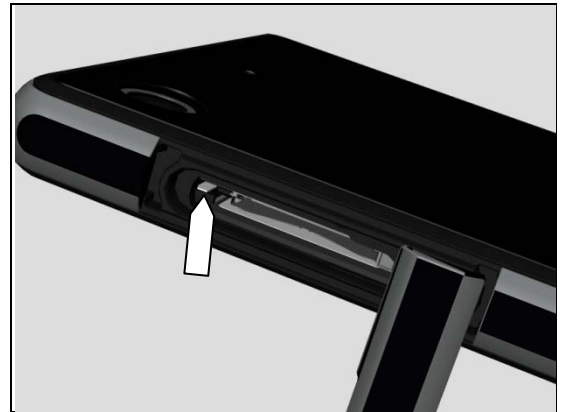
#### 1.2.1 Water indicator inspection- L39t/L39u Specific

Before starting any tests the Liquid Indicator has to be checked.

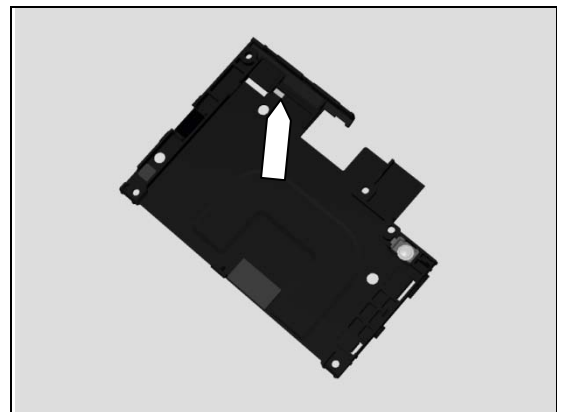
The indicator is located as shown in this picture after the Cap USB is opened.



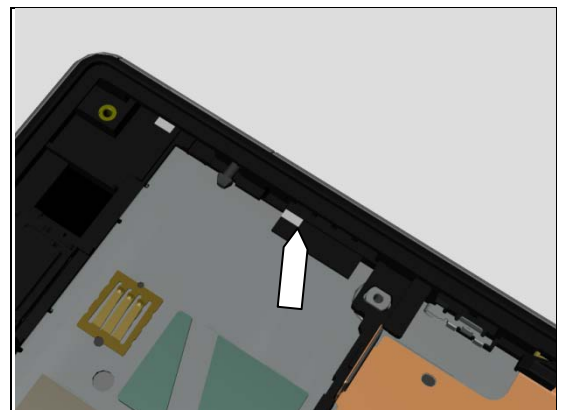
Another indicator is located as shown in this picture after the Cap SIM is opened.



Other indicator is located as shown in this picture after the Sub Antenna Assy is disassembled.



Other indicator is located as shown in this picture after the Main PBA is disassembled.



## Pre-Test Preparations

### 1.2.2 Water indicator inspection- C6916 Specific

Before starting any tests the Liquid Indicator has to be checked.

The indicator is located as shown in this picture after the Cap USB is opened.



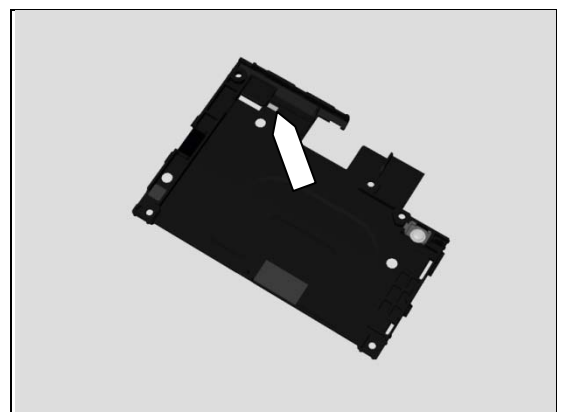
Another indicator is located as shown in this picture after the Cap SIM is opened.



Other indicator is located as shown in this picture after the Cap SD is opened.



Other indicator is located as shown in this picture after the Sub Antenna Assy is disassembled.



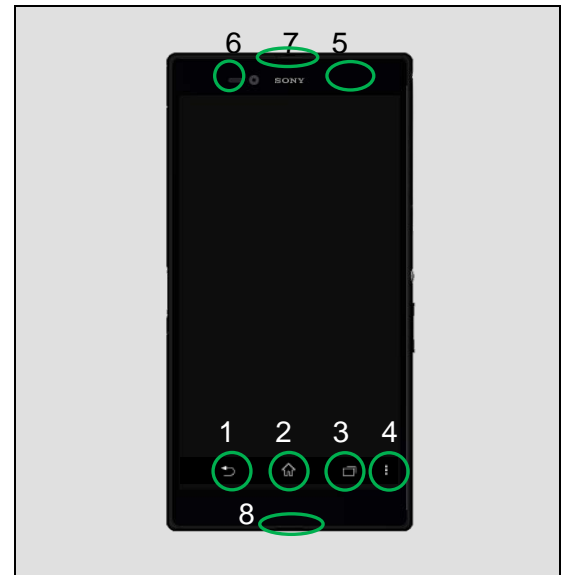
## Pre-Test Preparations

### 1.3 Test Enablers

These are items on the phone that are used during the test of the unit.

#### Front:

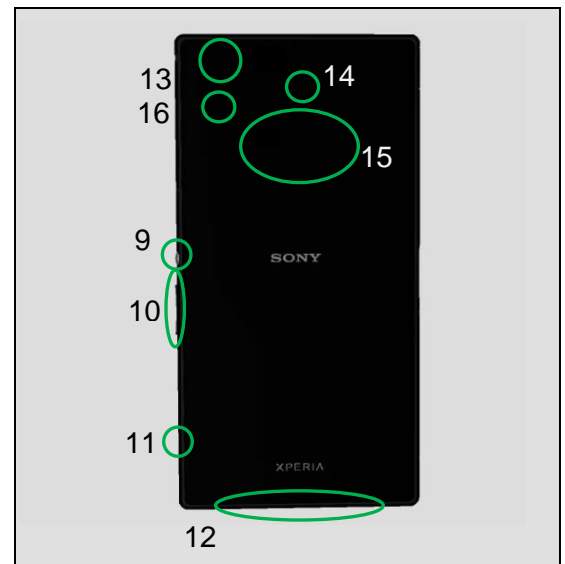
1. Back Key
2. Home Key
3. Multi Key
4. Menu key
5. Ambient Sensor, Proximity Switch and Notification LED
6. Secondary Camera
7. Earphone
8. Microphone



#### Back:

9. On/Off Key
10. Volume up/down Key
11. Camera key
12. Speaker
13. Camera
14. Secondary Microphone
15. NFC
16. LED Flash

6



## Pre-Test Preparations

### 1.4 Software

#### 1.4.1 Software update

##### 1.4.1.1 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**

##### 1.4.1.2 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](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!**

**Stamina mode needs to be turned off before entering Service Test Mode**

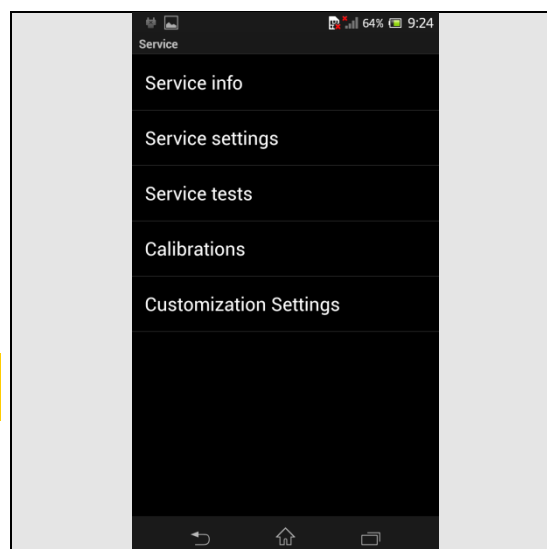
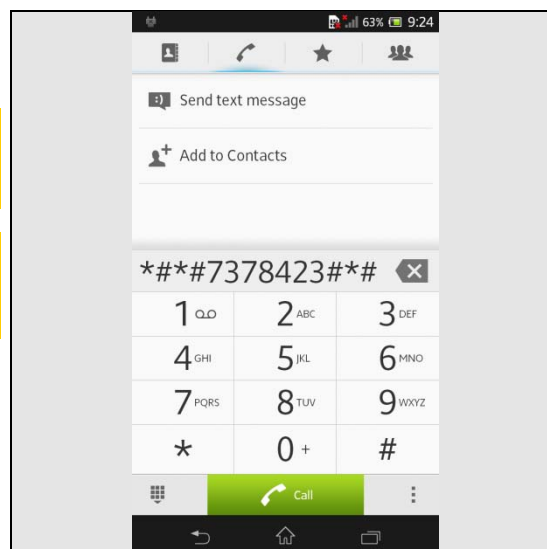
**Settings -> Power management -> STAMINA**

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

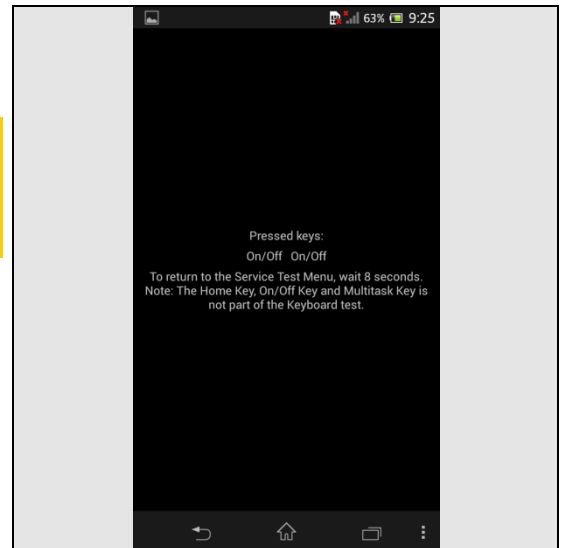
#### 2.2.1 Keyboard & Switch

**Text Note: The Home Key, On/Off key and Multitask 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
- Volume up key
- Volume down key
- Auto Focus/Camera key

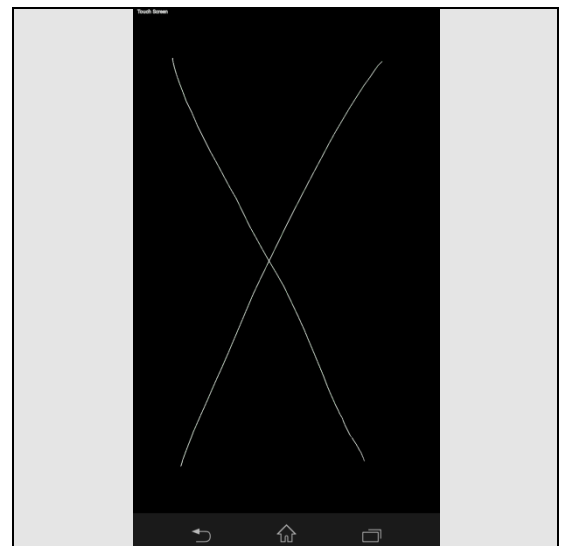


#### 2.2.1 Touch Screen

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

Check all area of the touch screen as indicated by the two lines.

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



#### 2.2.2 Display

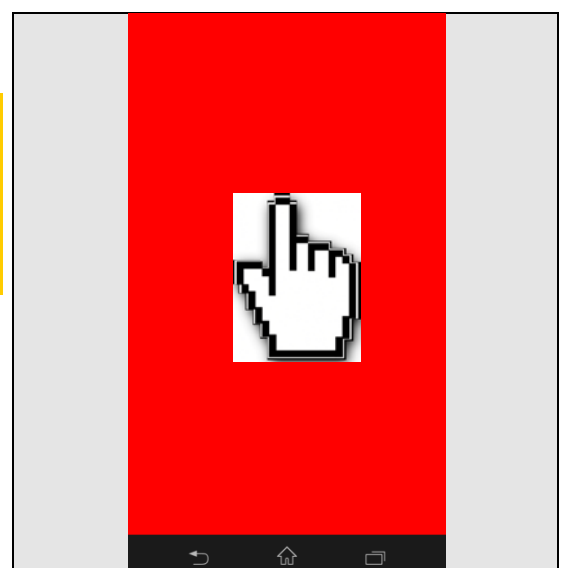
**Minor variations in the display's brightness and color may occur between phones.**

**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 Nine test patterns of White, Gray, Black, Red, Green, Blue, Rainbow Colors, Cross-Line, TV Pattern 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.



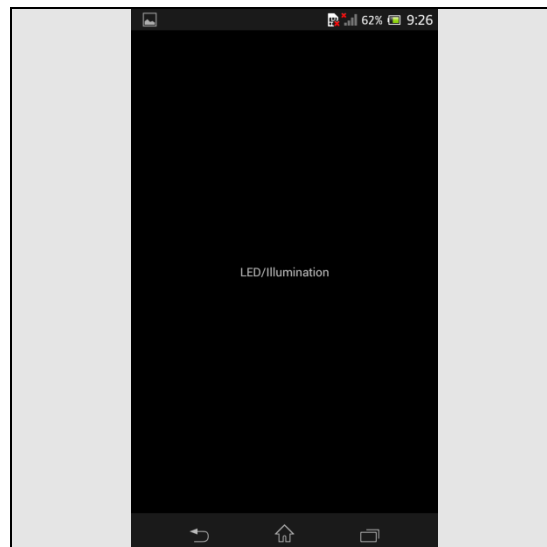
## Tests: Service Tests

### 2.2.3 LED/Illumination

Check that the:

- Display Backlight illumination goes from low to high strength back to low again.
- Notification LED changes, showing four colors in the following sequence: red, red, green, green, blue, blue and off.

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



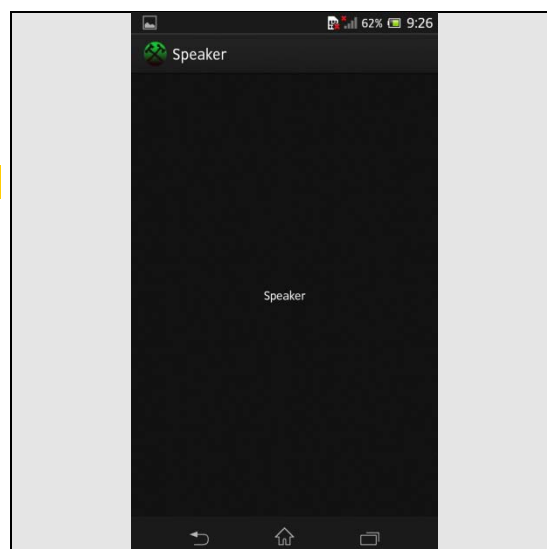
### 2.2.4 Speaker

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

Make sure that the sound from the speaker port is emitted loud and clear and that the test includes maximum volume.

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

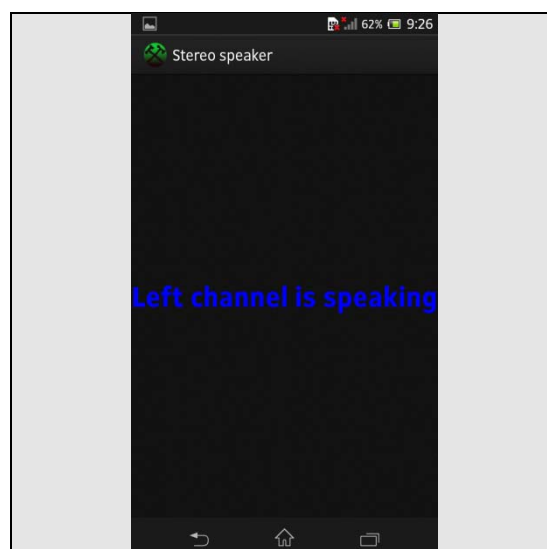
Press the Back key to return to the Service Test Menu.



### 2.2.5 Stereo speaker

N/A.

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



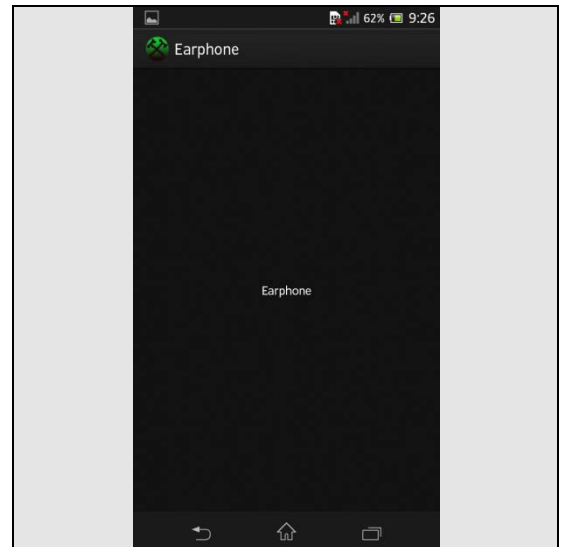
## Tests: Service Tests

### 2.2.6 Earphone

Make sure that the sound from the earphone port is emitted loud and clear and the test includes 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.

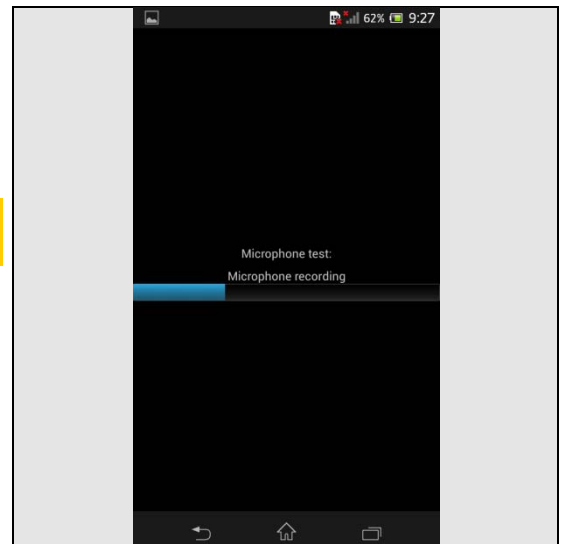


### 2.2.7 Microphone

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

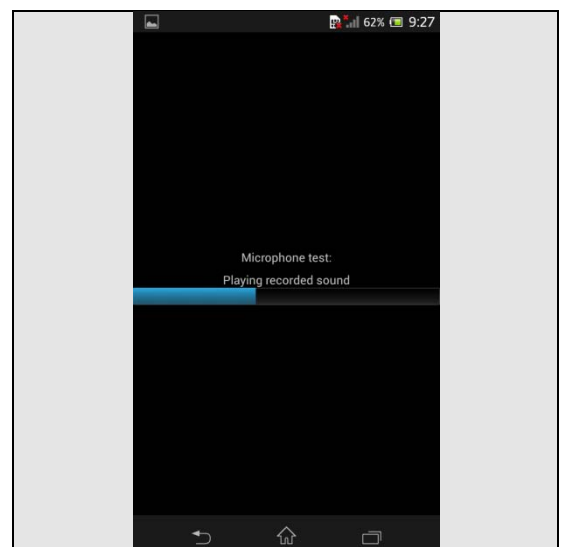
The phone will start to record and after approximately ten seconds the sound is played back through the speaker.

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.



## Tests: Service Tests

### 2.2.8 Secondary Microphone

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

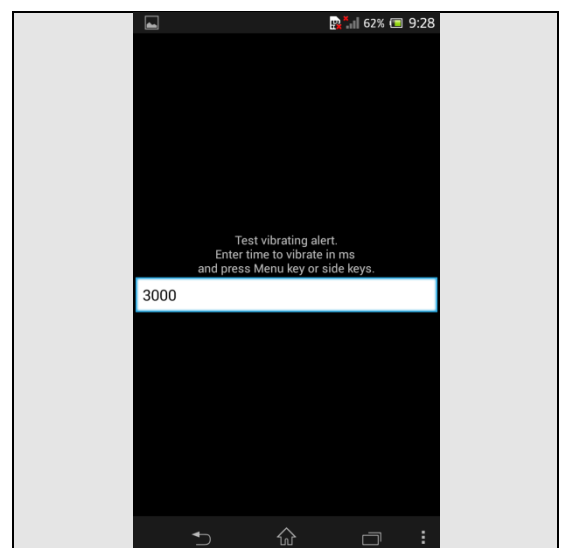
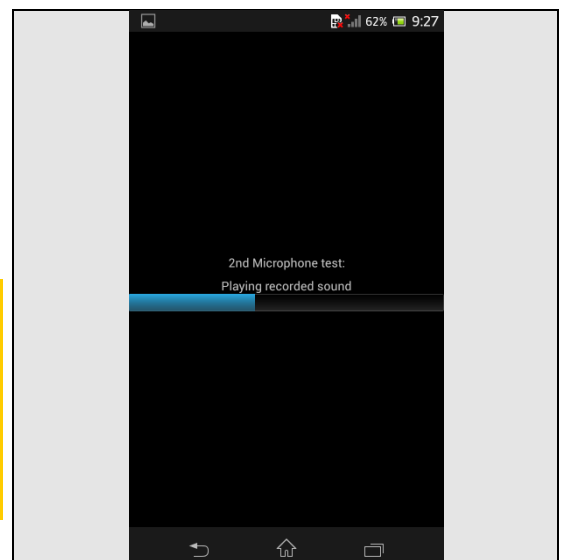
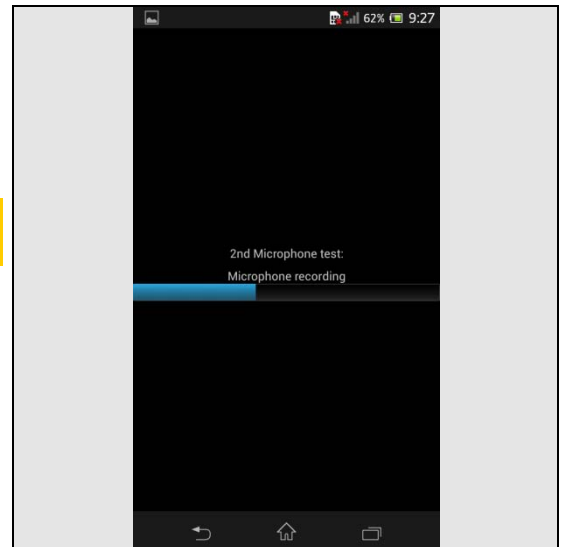
The phone will start to record and after approximately ten seconds the sound is played back through the speaker.

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.

**Notice! Covering the secondary microphone hole accidentally will greatly affect voice quality when making a call by using hands free function, because in this case the first microphone does not function and only the secondary microphone works. Refer to Test Enablers for the secondary microphone location.**



### 2.2.9 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.

## Tests: Service Tests

### 2.2.10 Camera

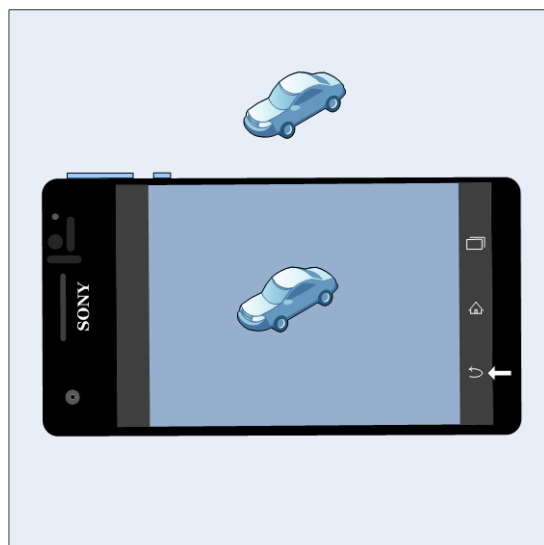
**Minor variations in image appearance may occur between phones, but is not uncommon and should not be regarded as an indication of a defective camera module!**

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

Touch the screen to take picture and 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.



Only symbolic view

### 2.2.11 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.

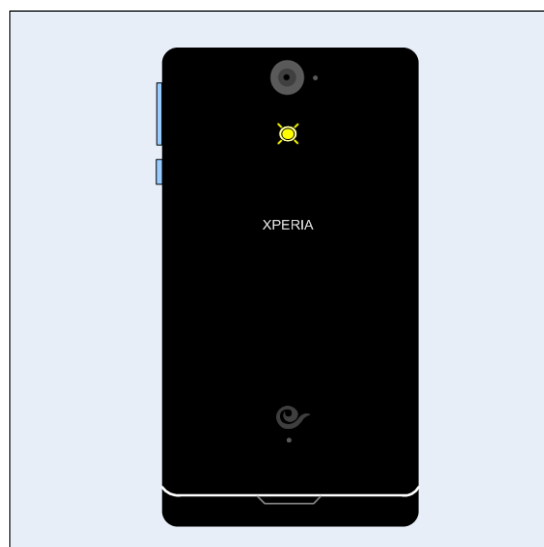


Only symbolic view

### 2.2.12 Flash LED

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

Press Back key to return to Service Test Menu.



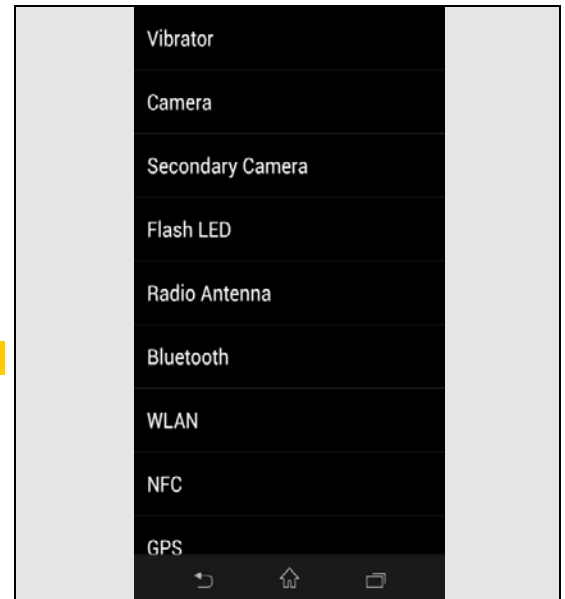
Only symbolic view

## Tests: Service Tests

### 2.2.13 Radio Antenna

N/A.

**Do not use this test!**



### 2.2.14 Bluetooth

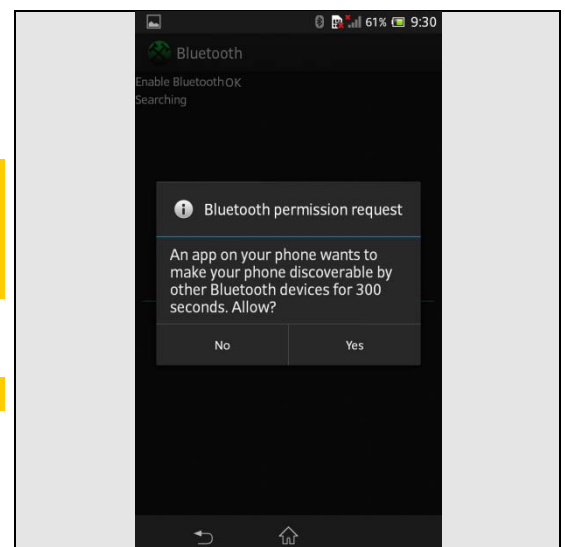
**During this test, the distance between the phone and the target Bluetooth device must be 1.5 to 5 meters! Make sure the target Bluetooth device is enabled and visible always!**

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;

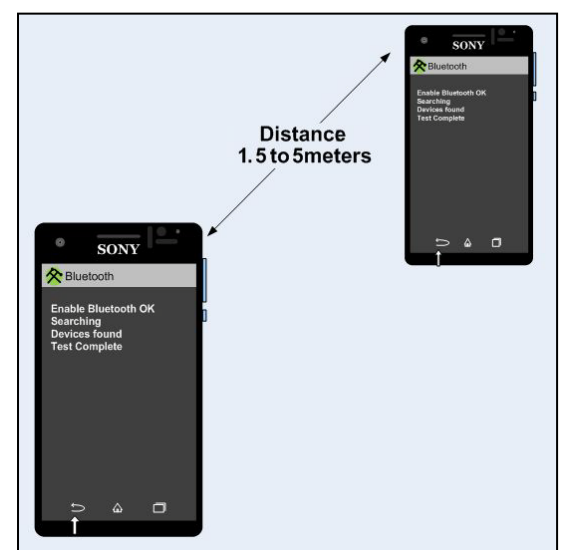
Step 3: Show the Device Found list;



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.



Only symbolic view

## Tests: Service Tests

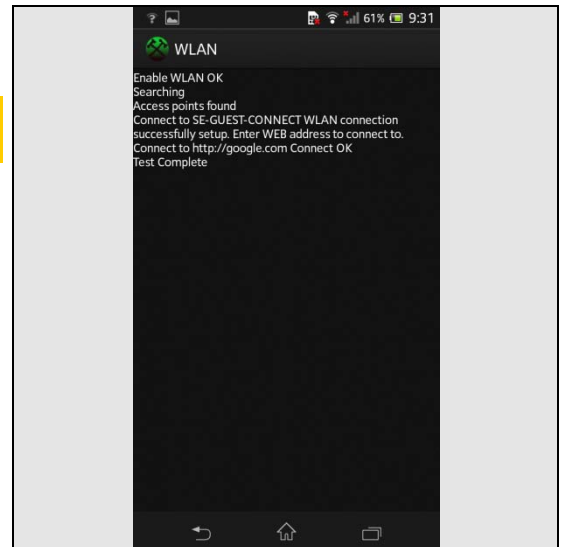
### 2.2.15 WLAN

**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.



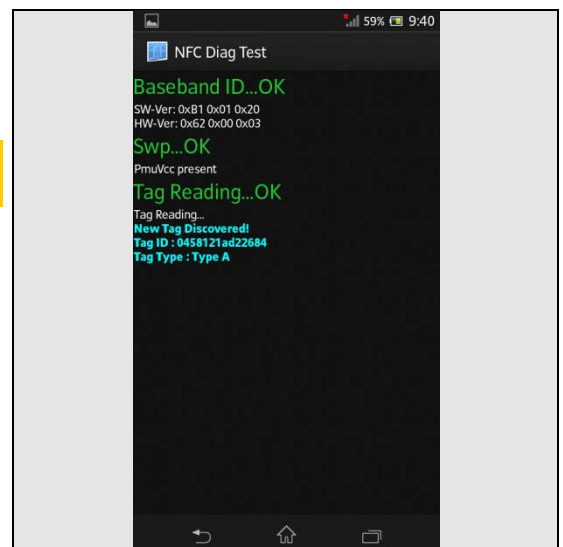
### 2.2.16 NFC

**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: Select '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 Assy.

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

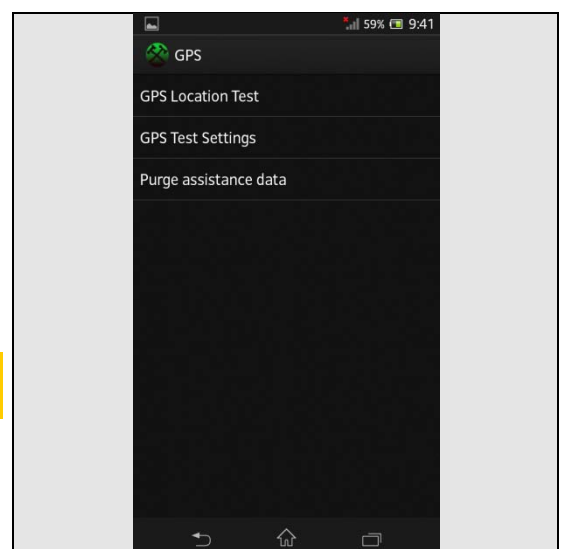


### 2.2.17 GPS

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**



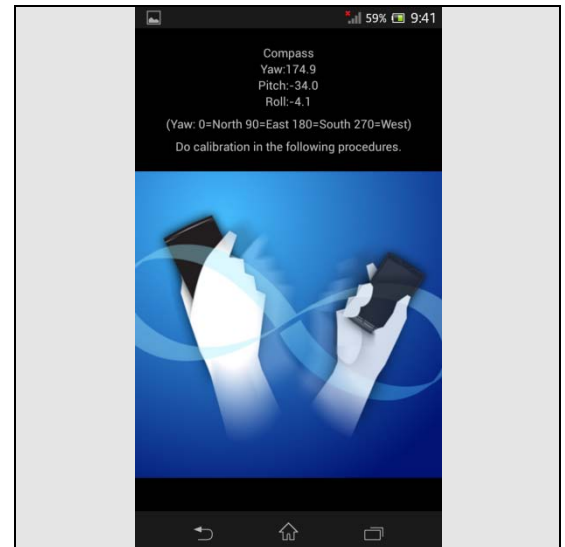


## Tests: Service Tests

### 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)

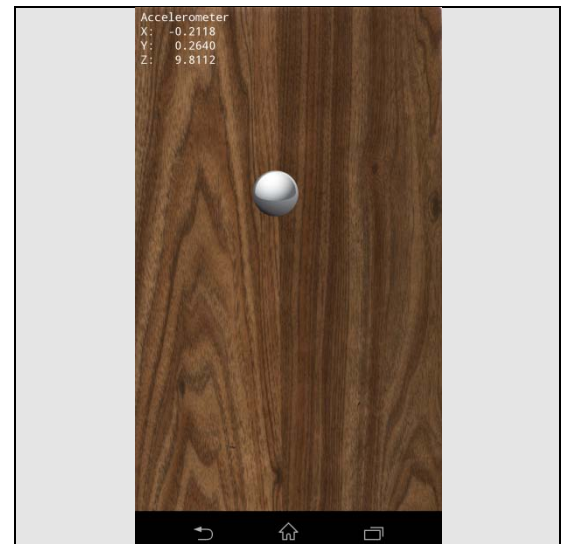
Press the Back key to return to the Service Test Menu.



### 2.2.19 Accelerometer

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

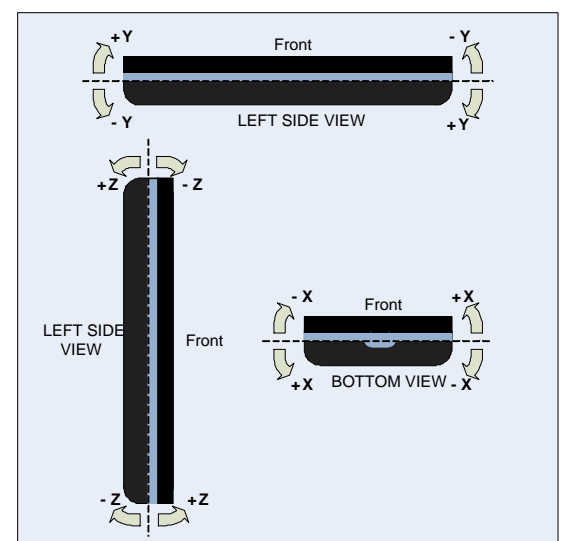
Press the Back key to return to the Service Test Menu.



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.



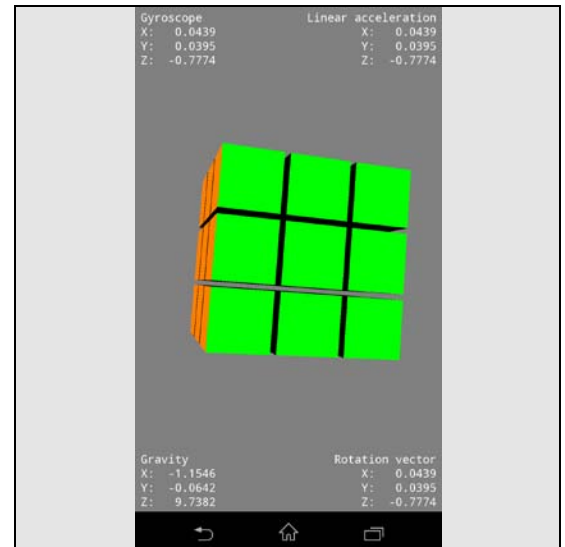
## Tests: Service Tests

### 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.

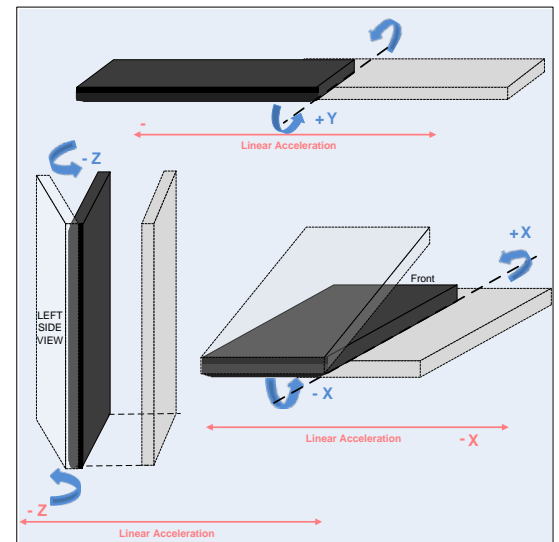
Press the Back key to return to the Service Test Menu.



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.

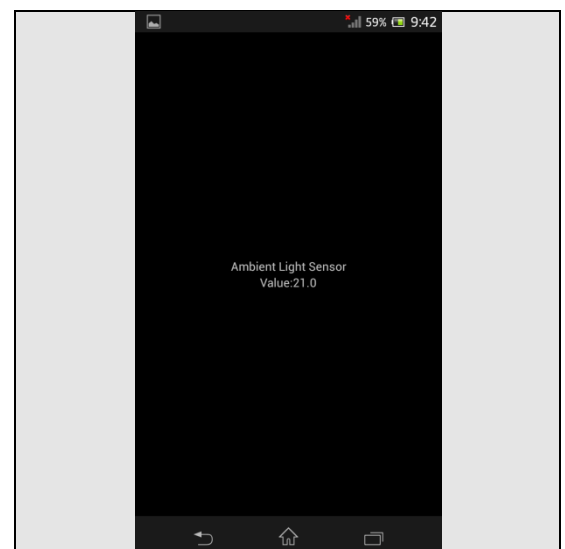
Press the Back key to return to the Service Test Menu.



### 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

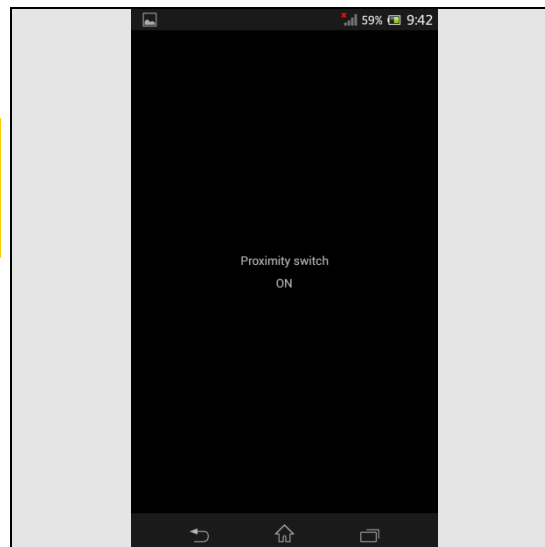
### 2.2.22 Proximity switch

**The previous Chapter 2.2.4 '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, the screen will show 'Proximity switch ON' with a different type of tone.

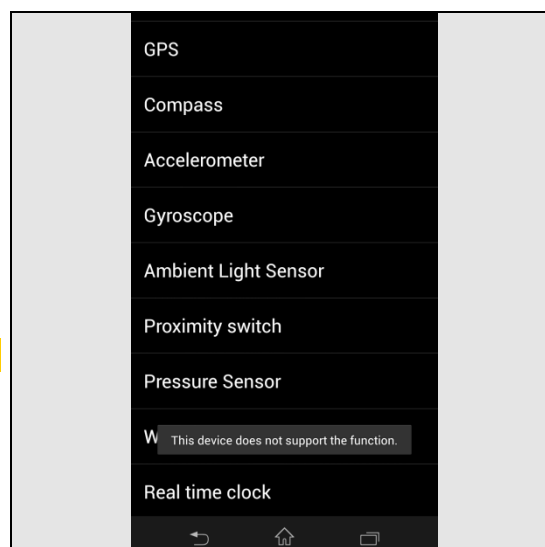
Press the Back key to return to the Service Test Menu.



### 2.2.23 Pressure Sensor

N/A.

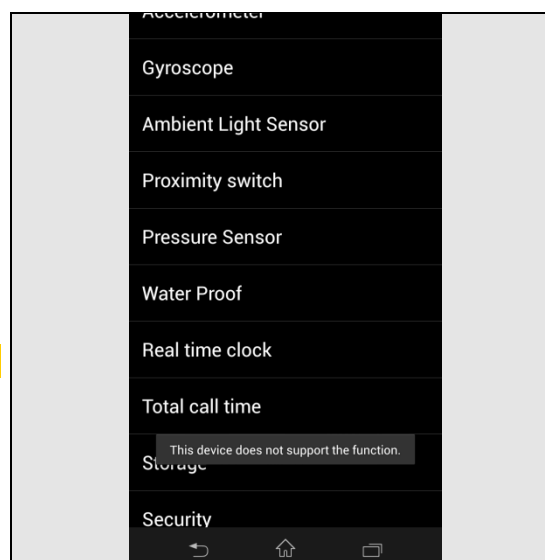
**This test is not available for this product!**



### 2.2.24 Water Proof

N/A.

**This test is not available for this product!**

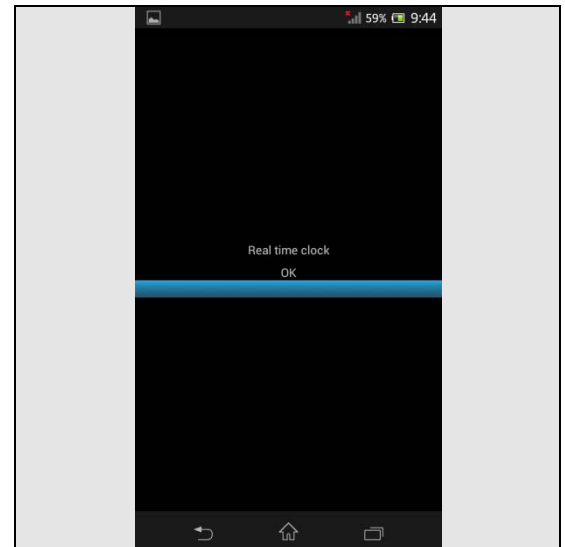


## Tests: Service Tests

### 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.

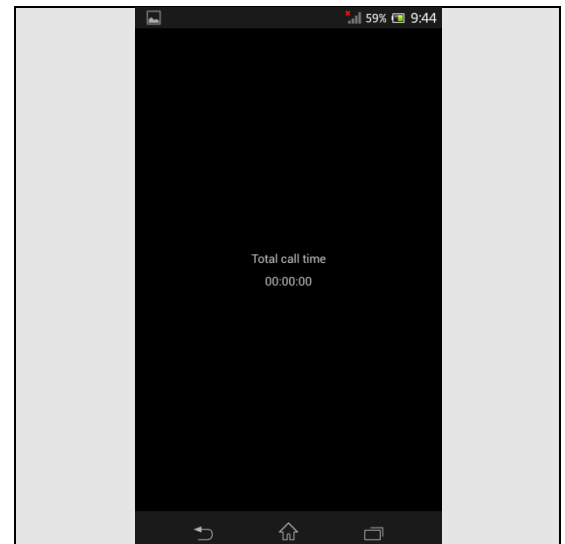
Press the Back key to return to the Service Test Menu.



### 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-L39t/L39u Specific

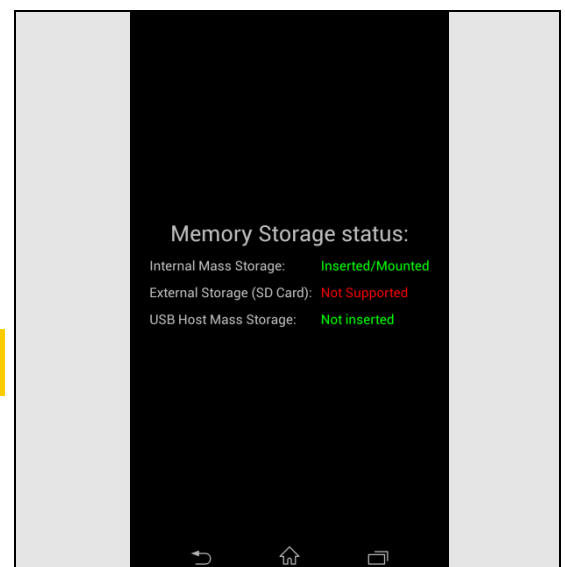
Memory Storage status:

- Internal Mass Storage is 'Inserted/Mounted' as shown on the screen.
- The External Storage (SD Card) is not supported for L39t/L39u.

**Attach USB Adaptor between phone and an USB disk before starting this test!**

- 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 Storage-C6916 Specific

Memory Storage status:

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

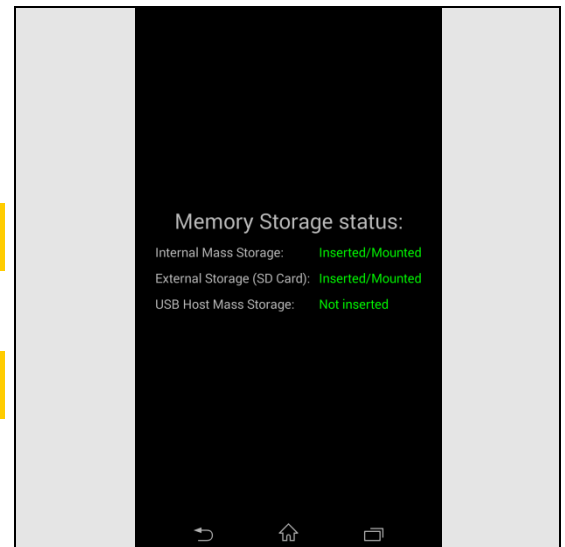
**A memory card should be inserted in the phone before starting this test!**

- The External Storage (SD Card) status is shown on the screen.

**Attach USB Adaptor between phone and an USB disk before starting this test!**

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

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

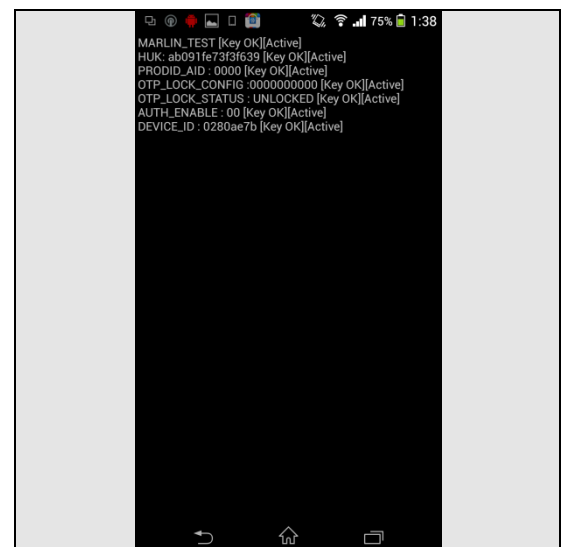


### 2.2.29 Security

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.



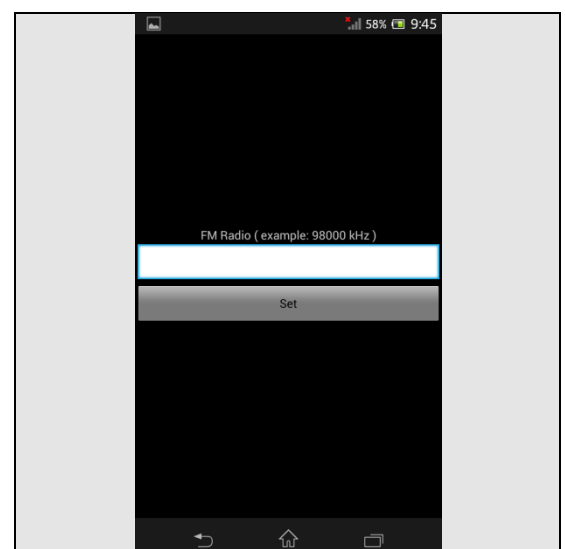
### 2.2.30 FM Radio

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.

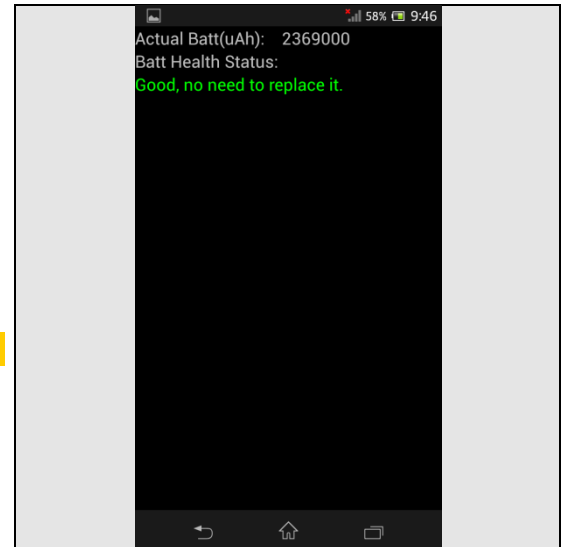


## Tests: Service Tests

### 2.2.31 Battery Health test

N/A.

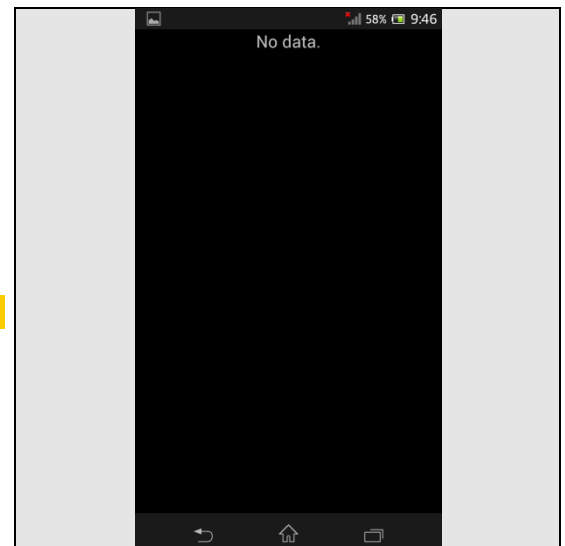
***This test is not available for this product!***



### 2.2.32 Flip slider counter

N/A.

***This test is not available for this product!***

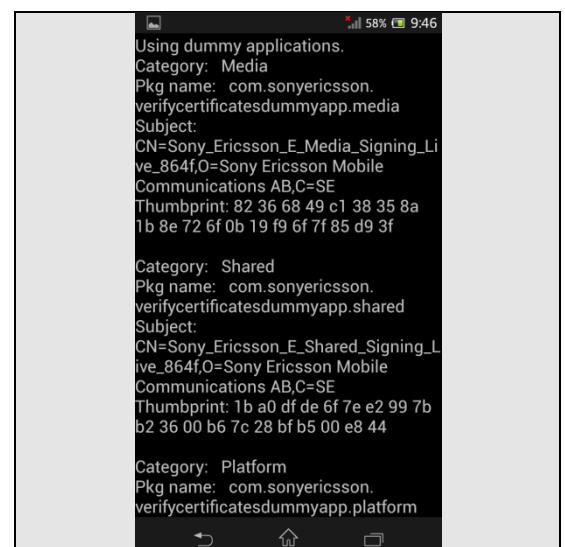


Press the Back key to return to the Service Test Menu..

### 2.2.33 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.

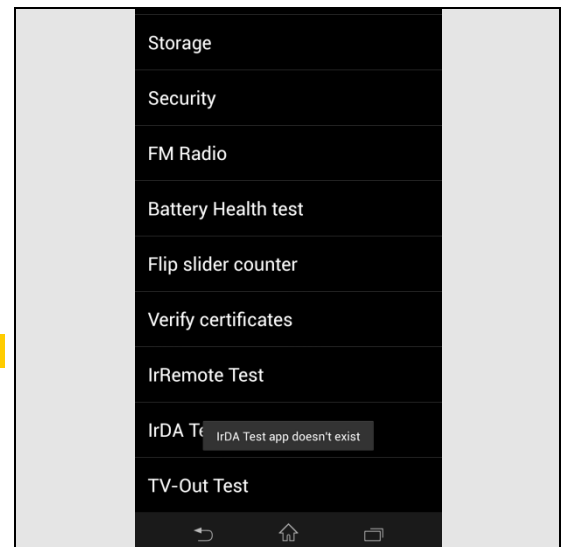


## Tests: Service Tests

### 2.2.34 IrRemote Test

N/A.

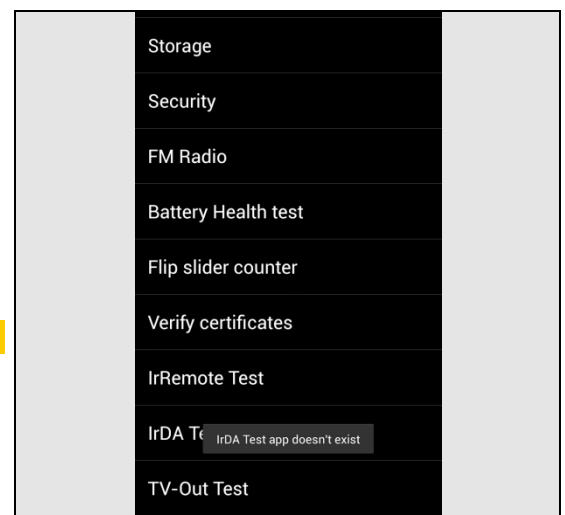
***This test is not available for this product!***



### 2.2.35 IrDA Test

N/A.

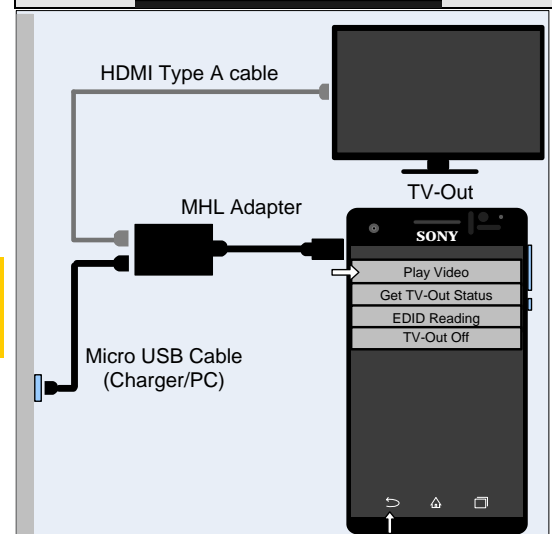
***This test is not available for this product!***



### 2.2.36 TV-Out Test

***MHL adapter, HDMI Type A Cable, charger and TV should be connected with the phone before the start of this test!***

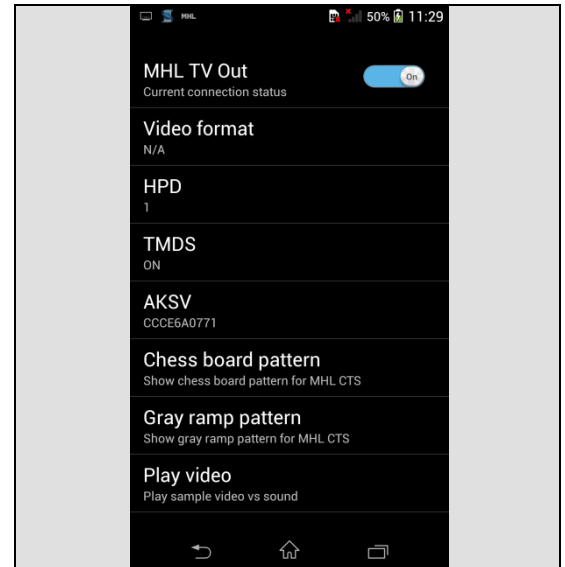
Step 1: Attach cable between phone and TV-Out as shown in picture;



Only symbolic view

## Tests: Service Tests

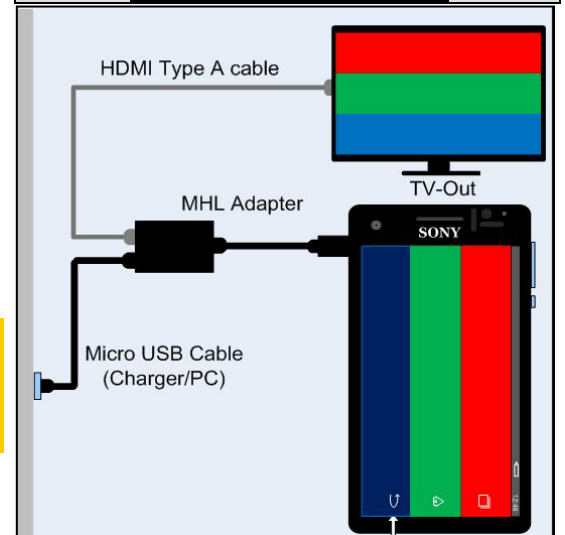
MHL TV Out is turned on after connection.



Step 2: Press 'Play Video'.

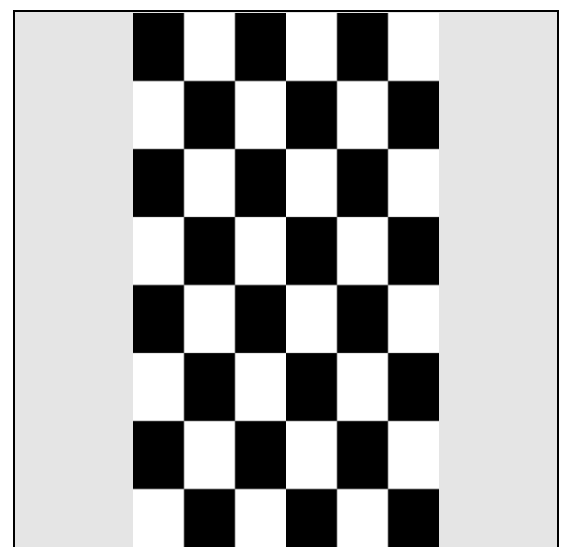
Receive a test tone and a red-green-blue test picture in the TV-Out Monitor and phone.

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



Only symbolic view

Step3: Press 'Chess board pattern' to do the same test as the 'Play video'.

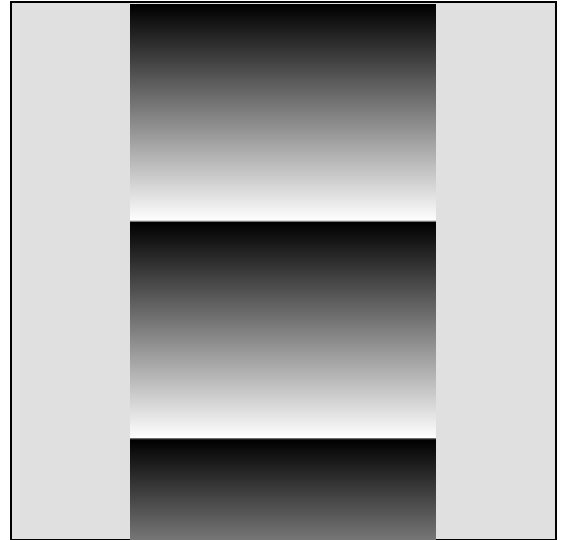




## Tests: Service Tests

Step4: Press 'Gray ramp pattern' to do the same test as the 'Play video'.

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



## Tests: Manual Tests

### 2.3 Manual Tests

#### 2.3.1 SIM test

Verify that the phone can detect a SIM card:

Step 1: Insert a SIM card, and start the phone;

If the SIM card is detected by the phone, the start-up procedure will continue.

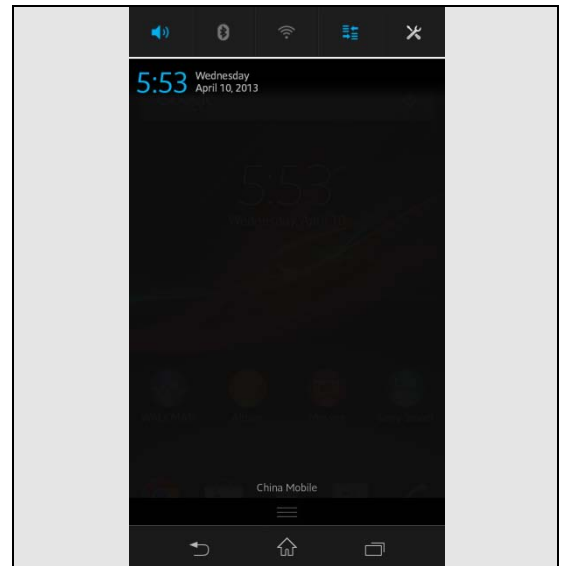
Step 2: Pull down the Status Bar (put finger next to the receiver and drag the menu down from the Status Bar);

Step 3: See SIM card operator name.

The SIM card operator name will be displayed above the Time Clock when phone is in Lock status.

If not detected, the message 'Emergency call only' will be displayed instead in the pull down Status Bar.

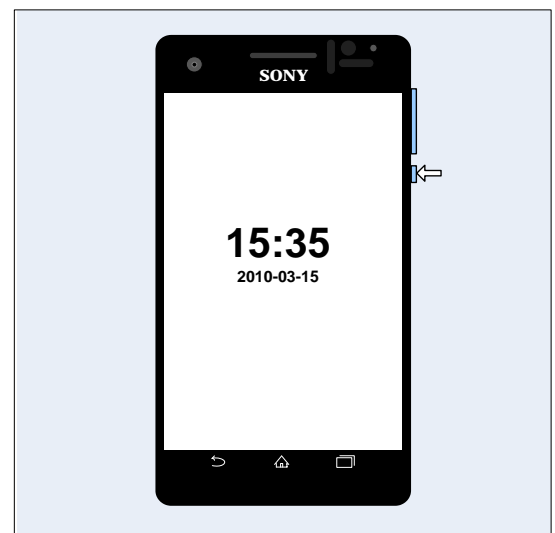
Press Back key to return to Standby Menu.



#### 2.3.2 On/Off key test

Press the on/off key for a long time to turn the phone on or off.

Press the on/off key for a short time to enter Sleep mode or to wake it up from Sleep mode.



Only symbolic view

#### 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 Standby screen.



Only symbolic view

## Tests: Manual Tests

### 2.3.4 Multitask key test

Whatever the phone shows now during operation, press the Multitask key to show the programs used recently.

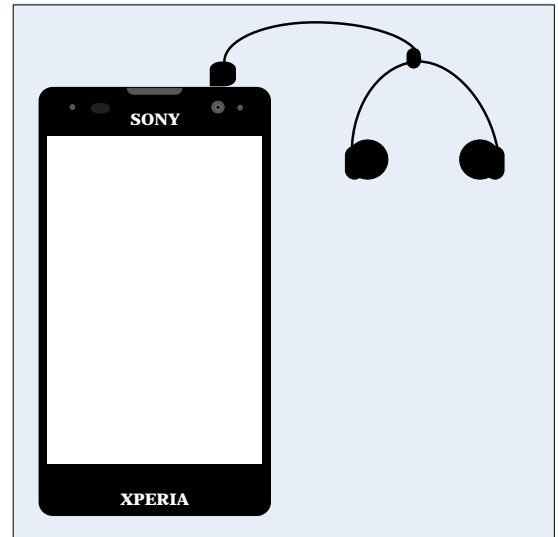


Only symbolic view

### 2.3.5 Audio Jack test

Connect a Sony CTIA headset.  
Repeat the test of “2.2.4 Speaker”, “2.2.6 Earphone” and “2.2.7 Microphone”.

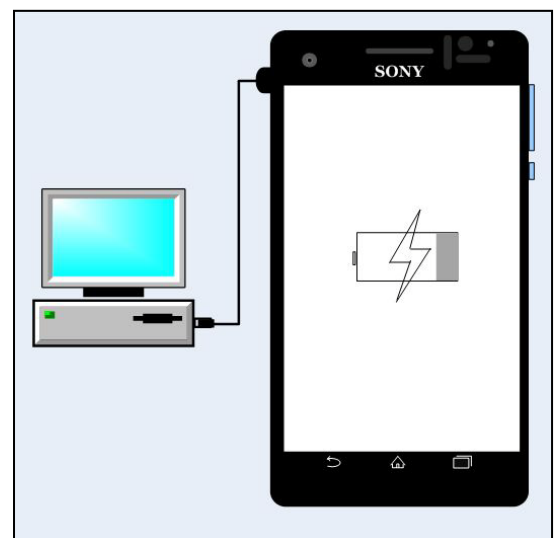
Make sure that the sound from Headset earphone ports are emitted loud and clear.



Only symbolic view

### 2.3.6 Data Communication test

- Connect a USB cable from a computer to the started phone.
- Verify that Data Communication works by transferring a file from Computer to phone
- Erase the file



Only symbolic view

## Tests: Manual Tests

### 2.3.7 Charging (Charger or Computer)

#### 2.3.7.1 Charging via Magnetic connector (Charger or Computer)

Verify that the phone can charge the battery by using a Magnetic connector:

Connect a DK31 Magnetic Charging Dock 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 DK31 Magnetic Charging Dock from the connector and verify that the notification LED and Battery icon no longer indicates charging.



#### 2.3.7.2 Charging via USB (Charger or Computer)

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

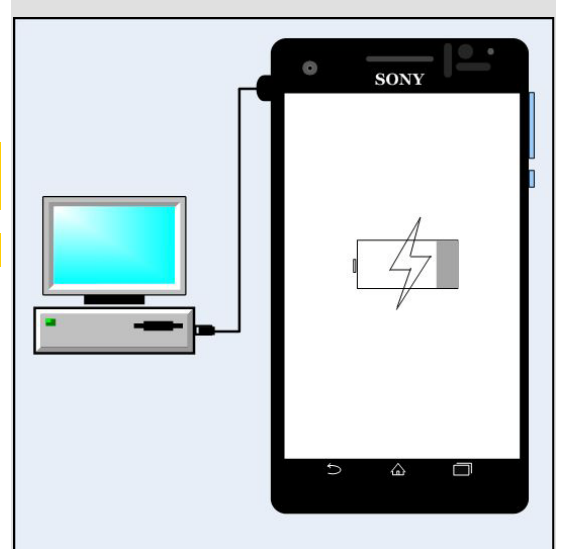
**Ensure that no computer application, such as PC Suite or Emma, is active!**

**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.

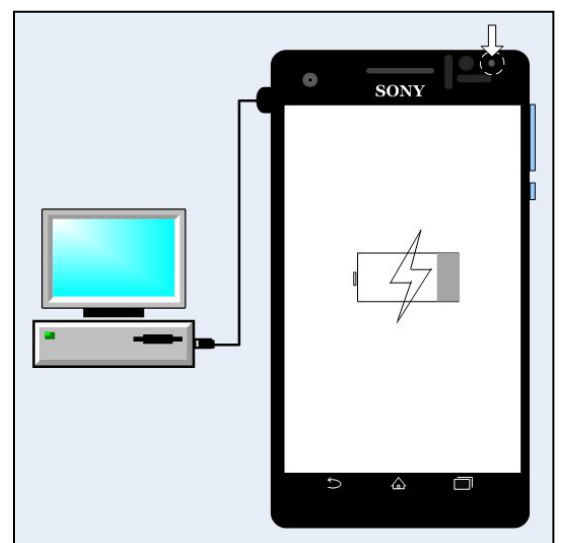
Remove the USB cable from the connector and verify that the notification LED and Battery icon no longer indicates charging.



Only symbolic view

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%;



Only symbolic view

## Tests: Manual Tests

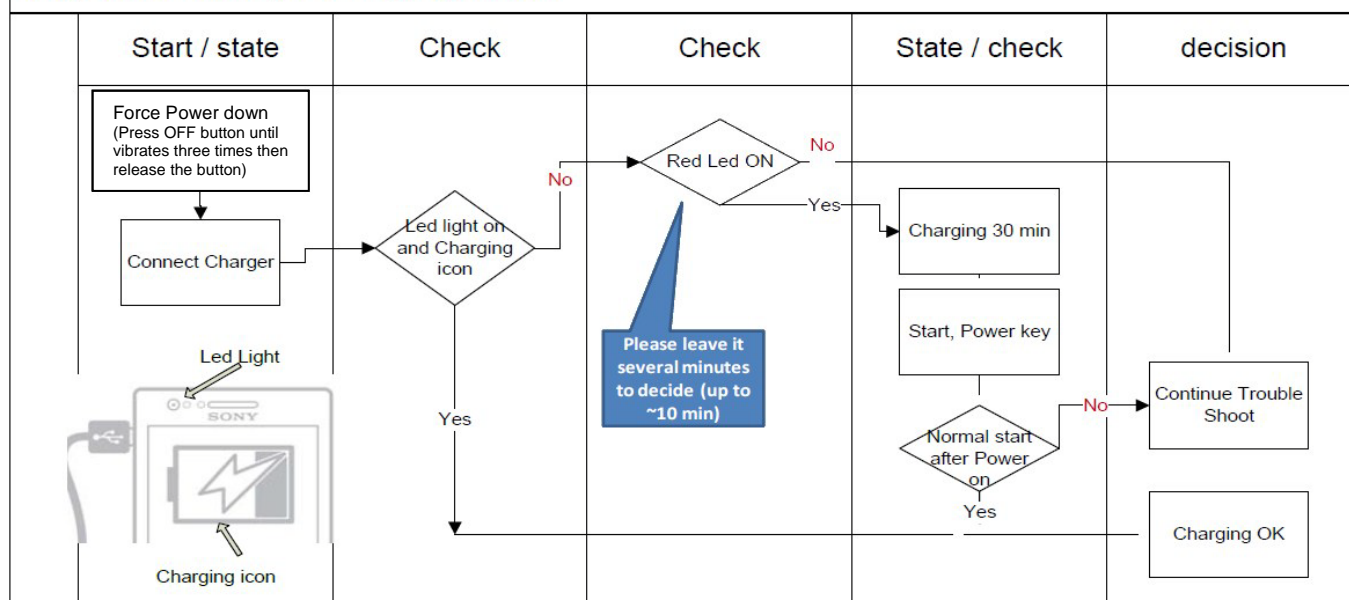
If above fails, perform below Diagnostic battery / Charging Status check.

Perform a force shut down by pressing the OFF button as shown in picture, until the unit vibrates three times then release the button. Then the phone will shut down.

If no vibration is detected, the battery might be discharged.



### Diagnostic Battery / Charging Status



The picture in above flow chart is only symbolic view.

## Tests

### 2.4 Battery Test

If bad battery performance or capacity problem is claimed, the battery and charging function can be tested by using an application designed for this purpose.

By using this application the battery is tested in a fast and controlled environment.

This is especially convenient when phones with embedded batteries should be checked, to avoid unnecessary work to disassembly the phone to access the battery.

This test is designed to identify a faulty battery or a hardware issue in the phone or with the charger. The guide will describe different procedures depending on the battery level when the battery test is initiated.

The test is downloaded to the phone, using cable or Bluetooth, and executed.

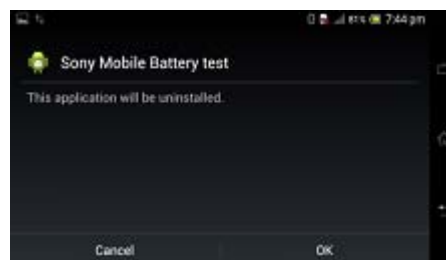
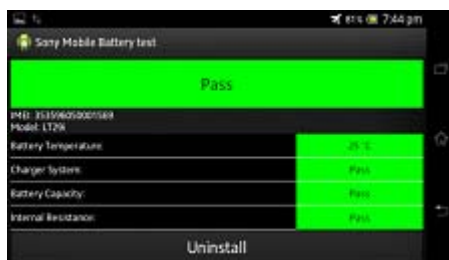
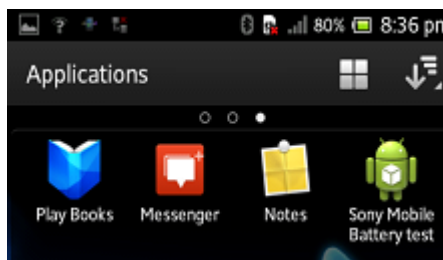
The test is available in CSPN at Level: Mechanical,

Title: **Sony Mobile Battery test Application 1266-2711.**

Unzip this file, where you find the application, installation and user guide content.

After the test the Sony Mobile Battery test.apk shall be removed by tap “Uninstall” “OK” in the application.

Error messages are described in the user guide for the Sony Mobile Battery test.



## Tests

### 2.5 Network Test

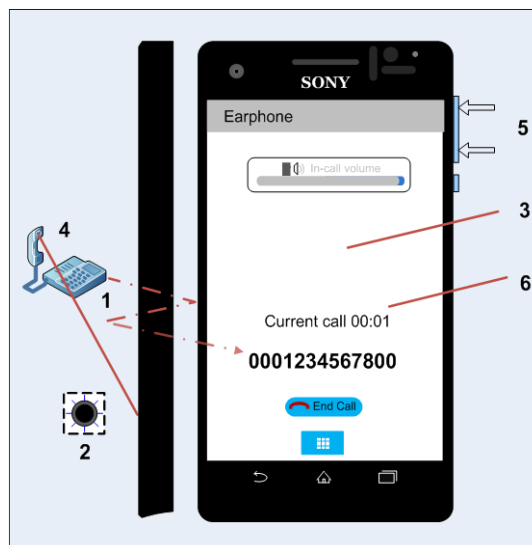
***This test can only be performed if the phone has an activated SIM/USIM/UIM card (no Test SIM/USIM/UIM) and an available network signal!***

***There are different versions of the test depending on whether a LTE, UMTS or TDSCDMA network is available or not!***

***If a LTE, UMTS or TDSCDMA network is available, the network test has to be done separately for GSM, UMTS, TDSCDMA or LTE!***

#### 2.5.1 Procedure (GSM & UMTS & TDSCDMA)

- 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.



Only symbolic view

## Tests: Network Test

### 2.5.2 On-the-air call to mobile-L39t Specific

#### GSM

Go to the Setting app:

Settings ⇒ *More* ⇒ *Mobile Networks* ⇒ Network mode ⇒ 3G (*preferred*)/ 2G

Ensure that the Network Status icon show signal strength and show no symbol or E at the top of the display.

To verify the radio functions (GSM) of the phone, follow the '2.5.1 Procedure (GSM & UMTS & TDSCDMA)' above.

#### TDSCDMA

Go to the Setting app:

Settings ⇒ *More* ⇒ *Mobile Networks* ⇒ Network mode ⇒ 3G (*preferred*)/ 2G

Ensure that the Network Status icon show signal strength and show 3G at the top of the display.

To verify the radio functions (TDSCDMA) of the phone, follow the '2.5.1 Procedure (GSM & UMTS & TDSCDMA)' above.

#### TD LTE (if available)

Go to the Setting app:

Settings ⇒ *More* ⇒ *Mobile Networks* ⇒ Network mode ⇒ 4G (*preferred*)/ 3G/ 2G

Ensure that the Network Status icon show signal strength and show LTE at the top of the display.

To verify the radio functions (LTE) of the phone, download data package by for ex. accessing the web.

Network Type can be checked in ⇒ *settings* ⇒ *about phone* ⇒ *status* ⇒ *Mobile Network Type*



## Tests: Network Test

### 2.5.3 On-the-air call to mobile-L39u Specific

#### GSM

Go to the Setting app:

Settings ⇒ More ⇒ Mobile Networks ⇒ Network mode ⇒ GSM only

Ensure that the Network Status icon show signal strength and show no symbol or E at the top of the display.

To verify the radio functions (GSM) of the phone, follow the '2.5.1 Procedure (GSM & UMTS & TDSCDMA)' above.

#### UMTS

Go to the Setting app:

Settings ⇒ More ⇒ Mobile Networks ⇒ Network mode ⇒ WCDMA only

Ensure that the Network Status icon show signal strength and show 3G or H+ (HSPA) at the top of the display.

To verify the radio functions (UMTS) of the phone, follow the '2.5.1 Procedure (GSM & UMTS & TDSCDMA)' above.

#### TD LTE (if available)

Go to the Setting app:

Settings ⇒ More ⇒ Mobile Networks ⇒ Network mode ⇒ LTE (preferred)/WCDMA/GSM

Ensure that the Network Status icon show signal strength and show LTE at the top of the display.

To verify the radio functions (LTE) of the phone, download data package by for ex. accessing the web.

Network Type can be checked in ⇒ settings ⇒ about phone ⇒ status ⇒ Mobile Network Type

## Tests: Network Test

### 2.5.4 On-the-air call to mobile-C6916 Specific

#### GSM

Go to the Setting app:

Settings ⇒ More ⇒ Mobile Networks ⇒ Network mode ⇒ GSM only

Ensure that the Network Status icon show signal strength and show no symbol or E at the top of the display.

To verify the radio functions (GSM) of the phone, follow the '2.5.1 Procedure (GSM & UMTS & TDSCDMA)' above.

#### UMTS

Go to the Setting app:

Settings ⇒ More ⇒ Mobile Networks ⇒ Network mode ⇒ WCDMA only

Ensure that the Network Status icon show signal strength and show 3G or H+ (HSPA) at the top of the display.

To verify the radio functions (UMTS) of the phone, follow the '2.5.1 Procedure (GSM & UMTS & TDSCDMA)' above.

#### FDD LTE (if available)

Go to the Setting app:

Settings ⇒ More ⇒ Mobile Networks ⇒ Network mode ⇒ LTE (preferred)/WCDMA/GSM

Ensure that the Network Status icon show signal strength and show LTE at the top of the display.

To verify the radio functions (LTE) of the phone, download data package by for ex. accessing the web.

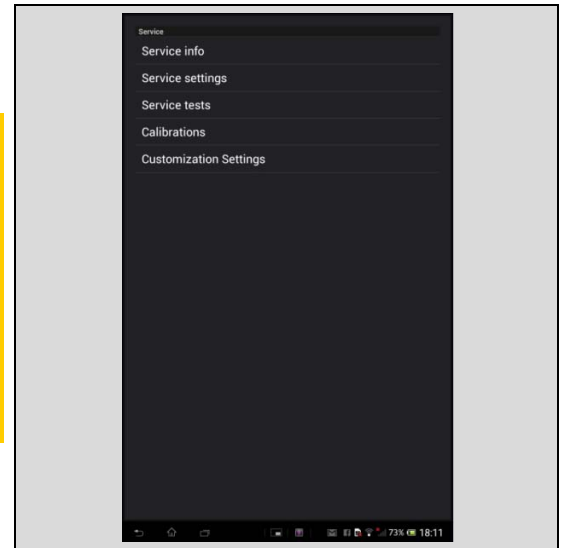
Network Type can be checked in ⇒ settings ⇒ about phone ⇒ status ⇒ Mobile Network Type

## 3 Calibrations

**Calibrations have to be done if Exchange Board or PBA complete (with Accelerometer and Gyroscope components) is replaced.**

**Service Menu, Calibrations, do not use!**

**See the products Working Instruction for Calibration instruction.**



## 4 Revision History

Rev.	Date	Changes / Comments
1	2013-Dec-06	Initial release
2	2014-Jan-15	Added L39u and C6916
3	2014-Feb-05	Chapter 2.2.16 update
4	2014-May-07	Important! Calibration updated to support all software versions.