



Troubleshooting Guide

- mechanical -



ST18i, ST18a, SO-03C,
Xperia™ Ray



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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 and the Keyboard illuminates after the Key On/Off is depressed.

Action:

If activation of the Vibrator is detected, refer to section 1.4 'Display'.



Check:

Inspect the contact pads on the Battery.

Action:

1. If dirty or oxidized – clean the pads.
2. If damaged – replace the Battery.



Check:

Inspect the battery contact pins.

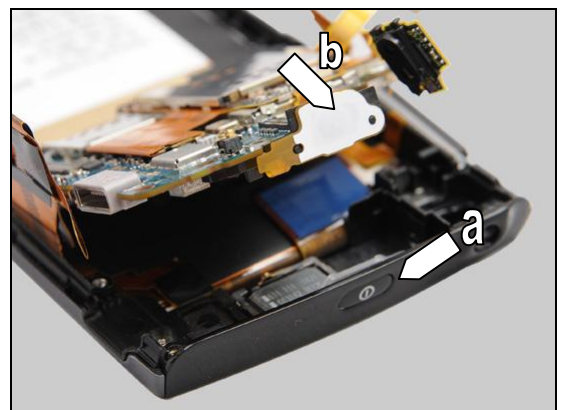
Action:

1. If dirty or oxidized – clean the contact pins.
2. If adhesive is detected on the contact pins, use an eraser to gently rub off the adhesive.



Check:

Inspect the Key On/Off, refer to section 1.2.4 'On/Off key'.





Problem Areas

1.2 Keys

1.2.1 Home Key

Check:

Inspect the Key Home on the Cover Front Assy.

Action:

1. If the Key Home is clogged – clean it.

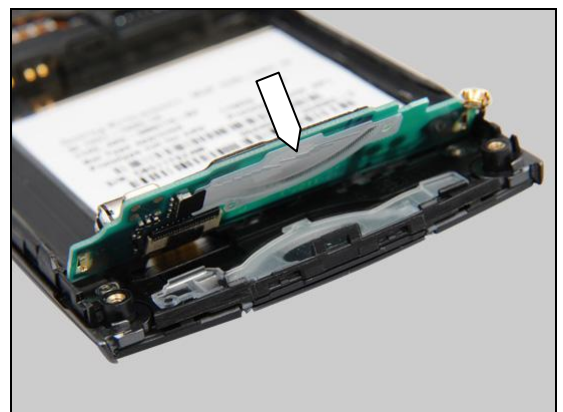


2. If the Key Home is damaged – replace it.



Check:

Inspect the Sub PBA Dome Switch on the Sub PBA.



Action:

If the Sub PBA Dome Switch is damaged – replace it.





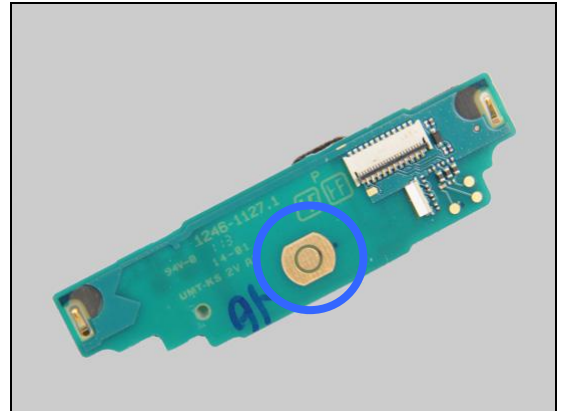
Problem Areas: Keys

Check:

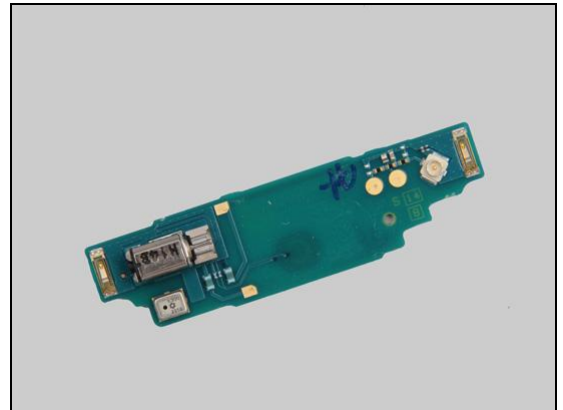
Inspect the key switch on Sub PBA.

Action:

1. If dirty or oxidized – clean them.



2. If the key switch is damaged – replace the Sub PBA.



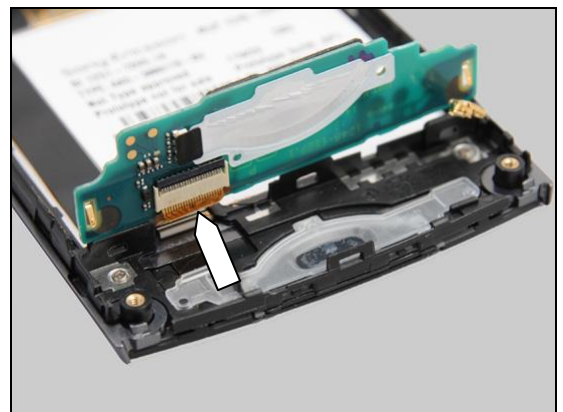
Check:

Inspect the ZIF connector of the Sub PBA to the Relay FPC.

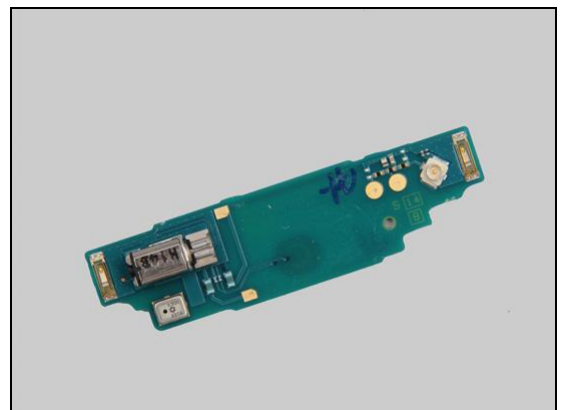
Action:

1. If not properly connected – disconnect and reconnect

2. If dirty or oxidized – clean both sides of the ZIF connector.



3. If the connector is damaged – replace the Sub PBA.



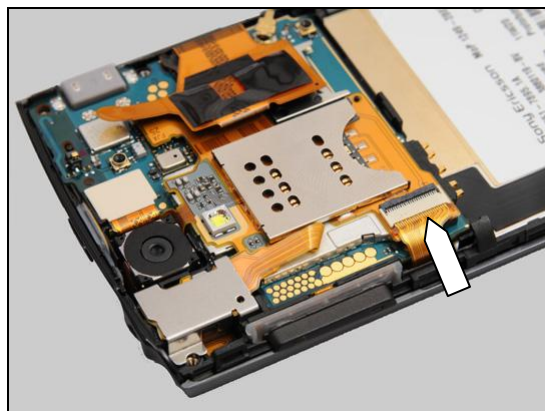
Problem Areas: Keys

Check:

Check the ZIF connector of the Relay FPC to the SIM FPC Module.

Action:

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

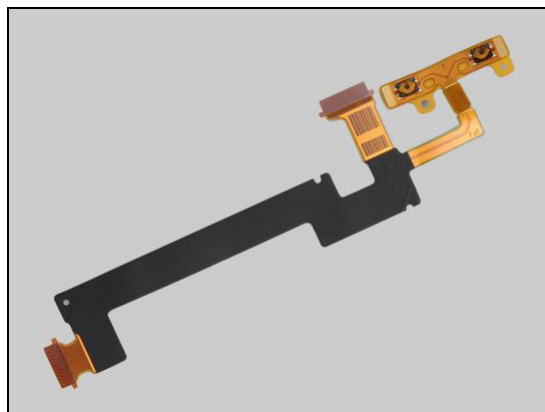


Check:

Inspect the Relay FPC.

Action:

If the Relay FPC or its ZIF connector is damaged – replace the Relay FPC.

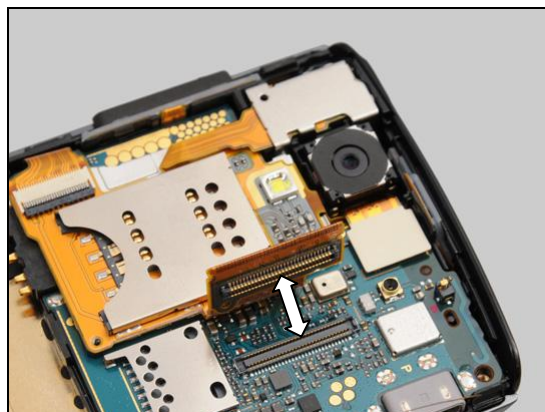


Check:

Check the BtB connector of the SIM FPC Module to the Main PBA.

Action:

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

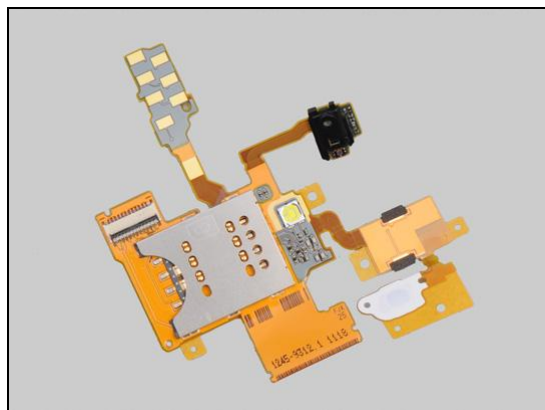


Check:

Inspect the SIM FPC Module.

Action:

1. If the SIM FPC Module or its ZIF connector is damaged – replace the SIM FPC Module.
2. Send to higher level of repair.



Problem Areas: Keys

1.2.2 Menu and Back Keys

Check:

Inspect the touch area of the menu and back keys on the Cover Front Assy.

Action:

If the touch area is dirty – clean it.

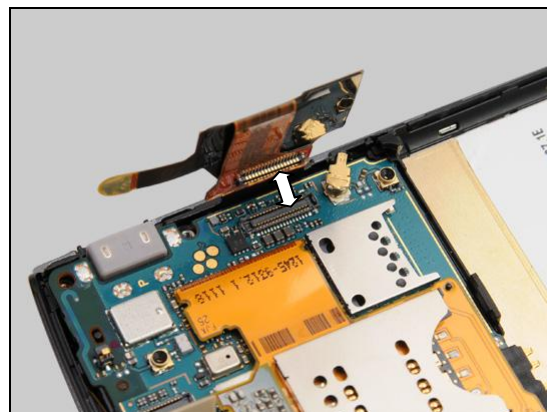


Check:

Inspect the BtB connector of the FPC to the Main PBA.

Action:

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



3. If the Cover Front Assy or its connector is damaged – replace the Cover Front Assy.

4. Send to higher level of repair.



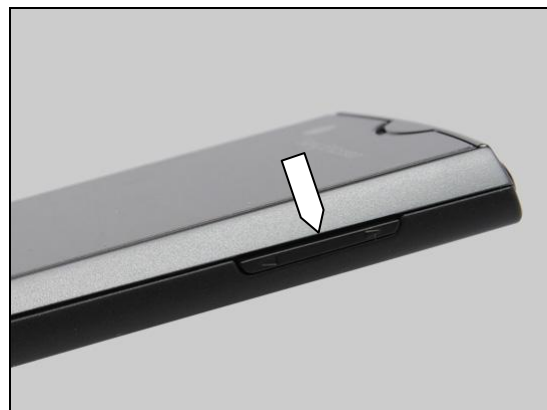
1.2.3 Volume Key

Check:

Inspect the Key Volume on Cover Front Assy.

Action:

1. If dirty or clogged – clean it.





Problem Areas: Keys

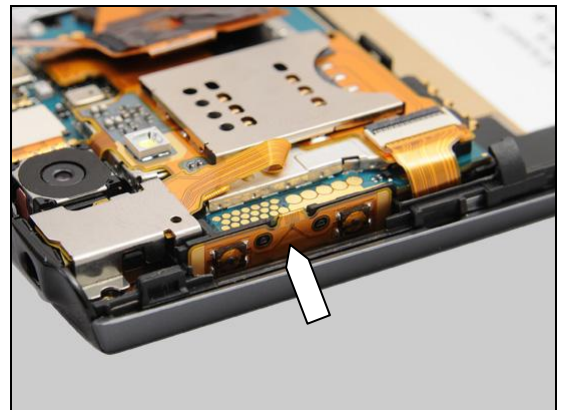
2. If the Key Volume is damaged – replace it.

Check:

Inspect the volume key push switch on the Relay FPC.

Action:

If dirty or clogged – clean it.

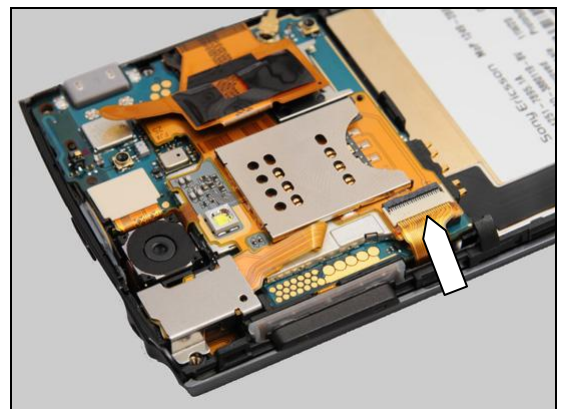


Check:

Check the ZIF connector of the Relay FPC to the SIM FPC Module.

Action:

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

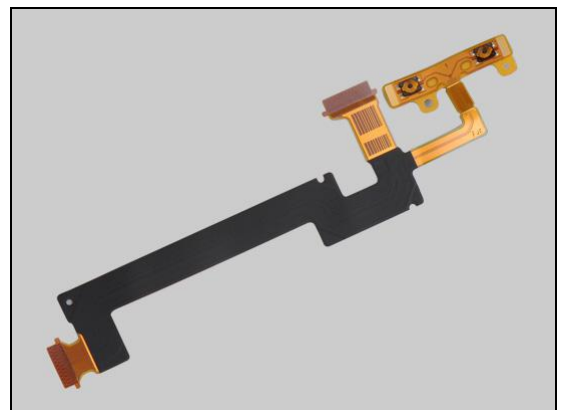


Check:

Inspect the Relay FPC.

Action:

1. If the Relay FPC or its ZIF connector is damaged – replace the Relay FPC.



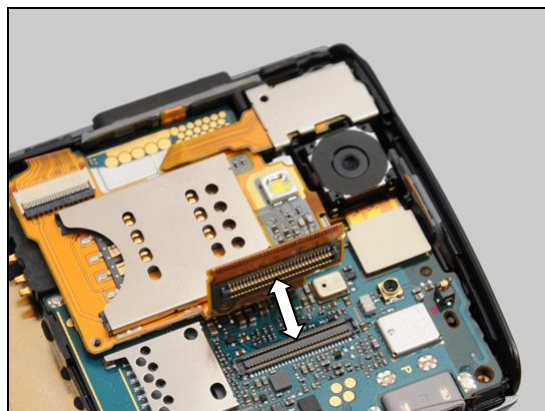
Problem Areas: Keys

Check:

Check the BtB connector of the SIM FPC Module to the Main PBA.

Action:

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

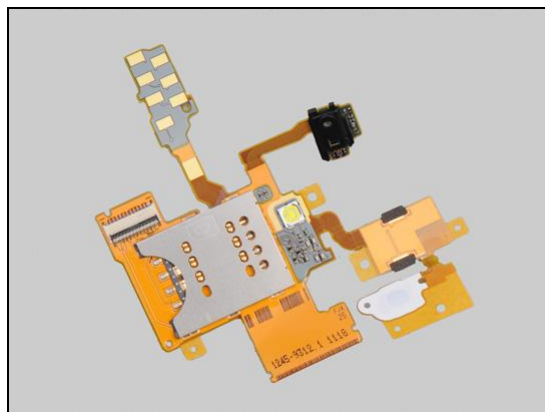


Check:

Inspect the SIM FPC Module.

Action:

1. If the SIM FPC Module or its BtB connector is damaged – replace the SIM FPC Module.
2. Send to higher level of repair.



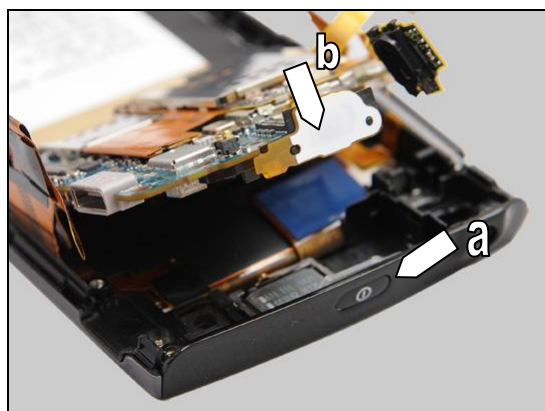
1.2.4 On/Off key

Check:

Inspect the Key On/Off (a) on the Cover Front Assy and the input switch (b).

Action:

1. If (a) or (b) is dirty or clogged – clean them.



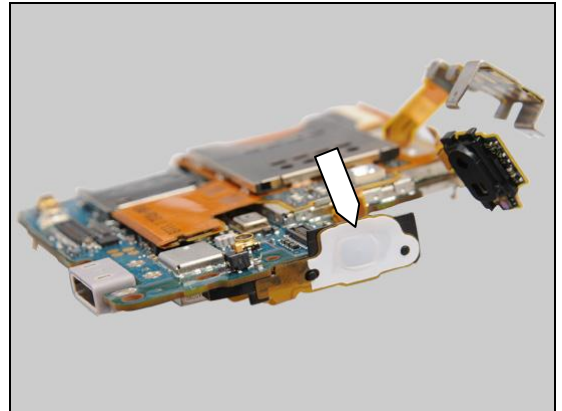
2. If (a) is damaged – replace the Key On/Off.



Problem Areas: Keys

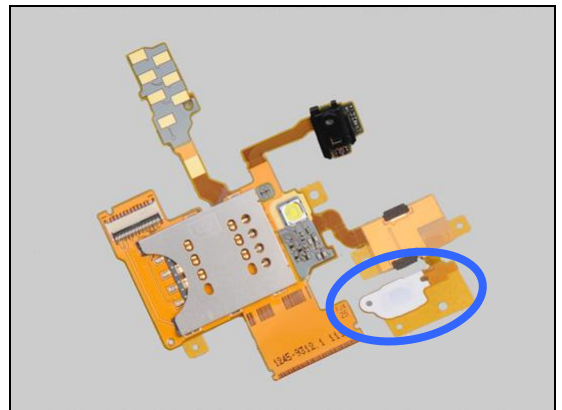
Check:

Inspect the key switch on the SIM FPC Module.



Action:

If the key switch is damaged – replace the SIM FPC Module.

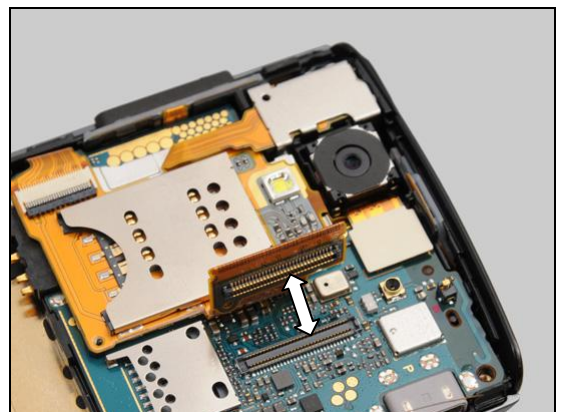


Check:

Check the BtB connector of the SIM FPC Module to the Main PBA.

Action:

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

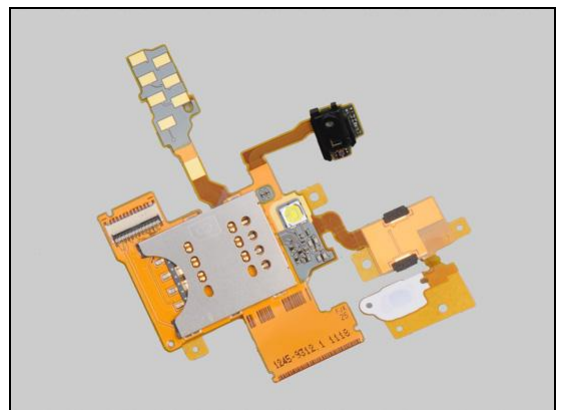


Check:

Inspect the SIM FPC Module.

Action:

1. If the SIM FPC Module or its BtB connector is damaged – replace the SIM FPC Module.
2. Send to higher level of repair.





Problem Areas

1.3 Touch Screen

1.3.1 Touch Screen malfunction

Check:

Inspect the touch screen of the Cover Front Assy.

Action:

If dirty – clean it.

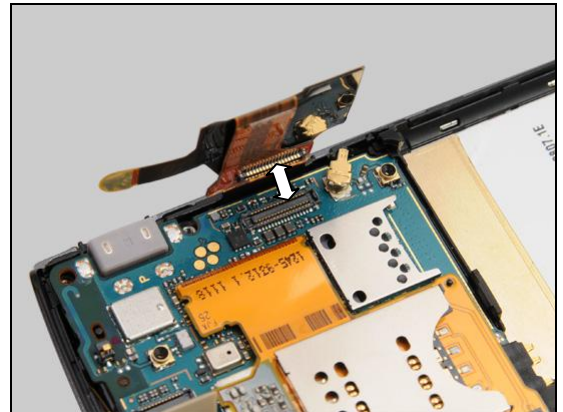


Check:

Inspect the BtB connector of the FPC to the Main PBA.

Action:

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



3. If the Cover Front Assy or its connector is damaged – replace the Cover Front Assy.
4. Send to higher level of repair.



Problem Areas

1.4 Display

1.4.1 Graphics & Illumination

Check:

Check whether the phone vibrates after the Key On/Off key has been pressed.

Action:

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

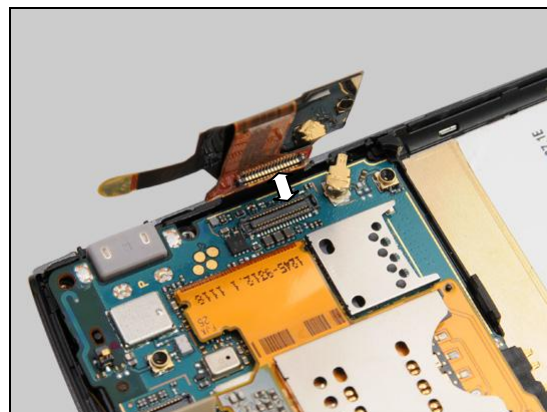


Check:

Inspect the BtB connector of the FPC to the Main PBA.

Action:

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



3. If the Cover Front Assy or its connector is damaged – replace the Cover Front Assy.

4. If tearing in camera view finder after reassembly, please perform Main Display V-Sync Calibration; 1269-2060 Trouble Shooting Application-mechanical.

5. Send to higher level of repair.





Problem Areas

1.5 LED/Illumination

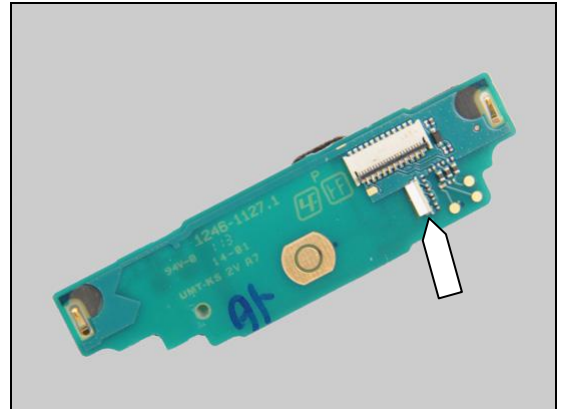
1.5.1 LED/Illumination

Check:

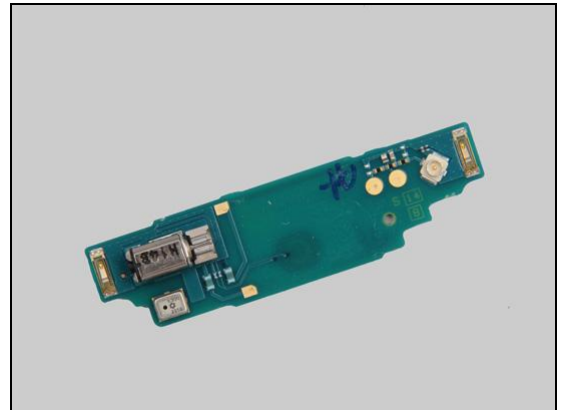
Inspect the Illumination LED on Sub PBA.

Action:

1. If dirty – clean it.



2. If the LED is damaged – replace the Sub PBA.



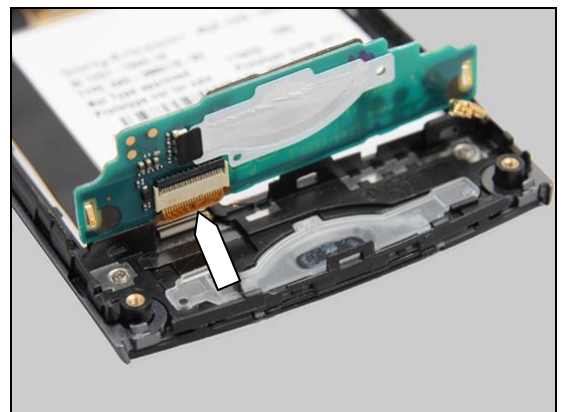
Check:

Inspect the ZIF connector of the Sub PBA to the Relay FPC.

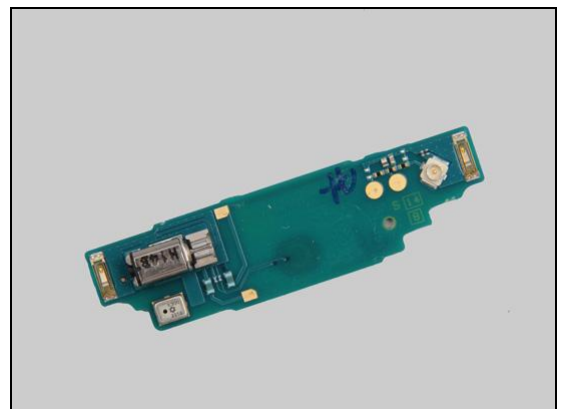
Action:

1. If not properly connected – disconnect and reconnect

2. If dirty or oxidized – clean both sides of the ZIF connector.



3. If the connector is damaged – replace the Sub PBA.





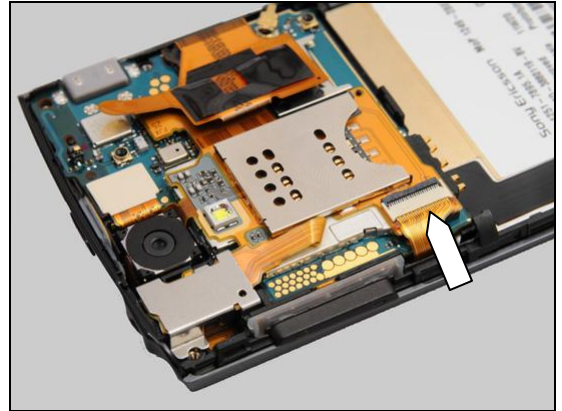
Problem Areas: Illumination

Check:

Check the ZIF connector of the Relay FPC to the SIM FPC Module.

Action:

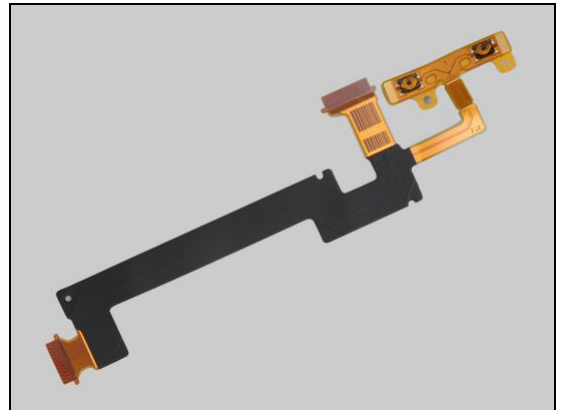
1. If not properly connected – disconnect and reconnect
2. If dirty or oxidized – clean both sides of the ZIF connector.

**Check:**

Inspect the Relay FPC.

Action:

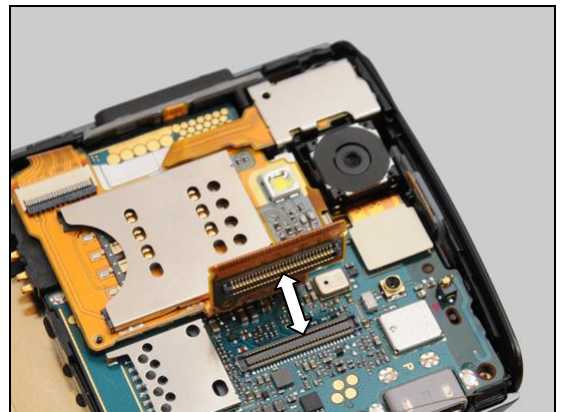
If the Relay FPC or its ZIF connector is damaged – replace the Relay FPC.

**Check:**

Check the BtB connector of the SIM FPC Module to the Main PBA.

Action:

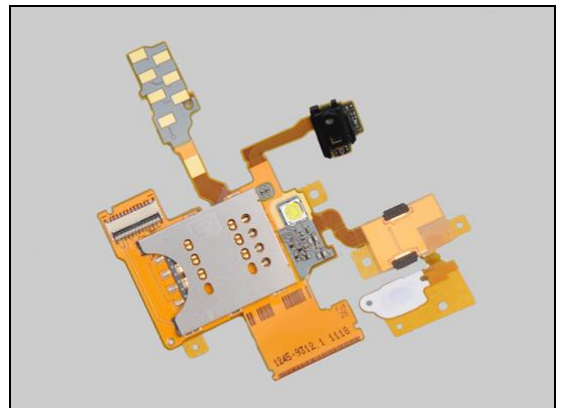
1. If not properly connected – disconnect and reconnect
2. If dirty or oxidized – clean both sides of the BtB connector.

**Check:**

Inspect the SIM FPC Module.

Action:

If the SIM FPC Module or its BtB connector is damaged – replace the SIM FPC Module.





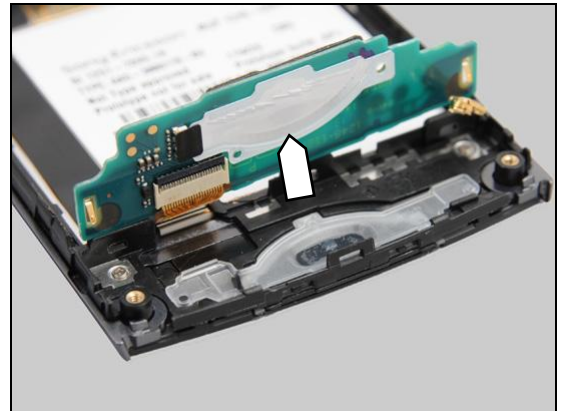
Problem Areas: Illumination

Check:

Inspect the Illumination window on Sub PBA Dome Switch.

Action:

1. If dirty – clean it.



2. If damaged – replace the Sub PBA Dome Switch.

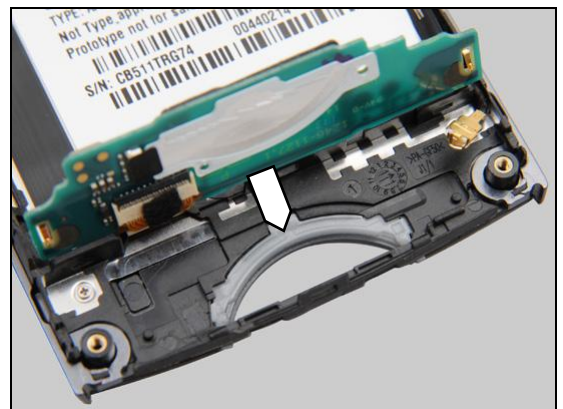


Check:

Inspect the window of LED red/green/blue on the Cover Front Assy.

Action:

1. If dirty – clean them.



2. If the window is damaged – replace the Cover Front Assy.
3. Send to higher level of repair.





Problem Areas

1.6 Speaker

1.6.1 Loudspeaker

Check:

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

Action:

If clogged – clean the speaker port or replace the Cover Battery.



Check:

Inspect the Loudspeaker's mesh on the Main Antenna Assy.

Action:

1. If clogged – clean the speaker mesh.



2. If the mesh is damaged – replace the Main Antenna Assy.

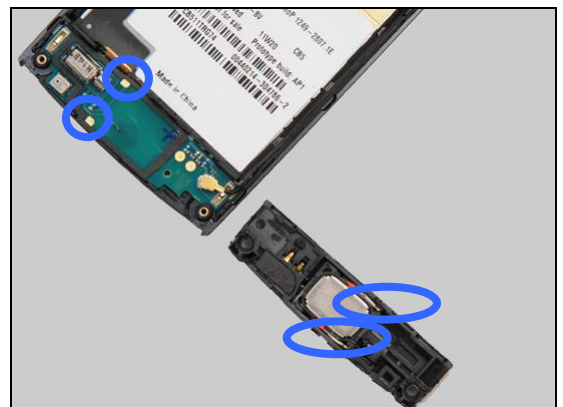


Check:

Inspect the Loudspeaker's pins on the Main Antenna Assy and the pads on the Sub PBA.

Action:

1. If dirty – clean them.



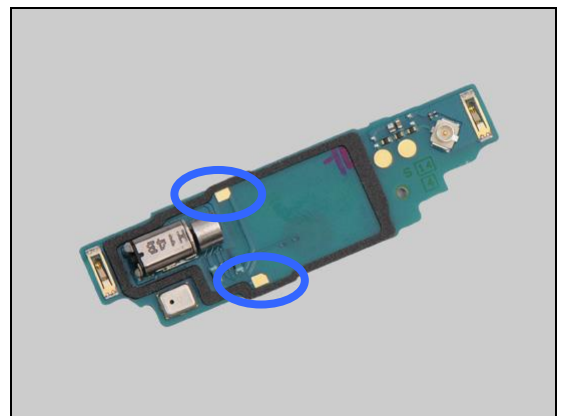


Problem Areas: Speaker

2. If the pins on the Loudspeaker are damaged – replace the Main Antenna Assy.



3. If the pads on the Sub PBA are damaged – replace the Sub PBA.

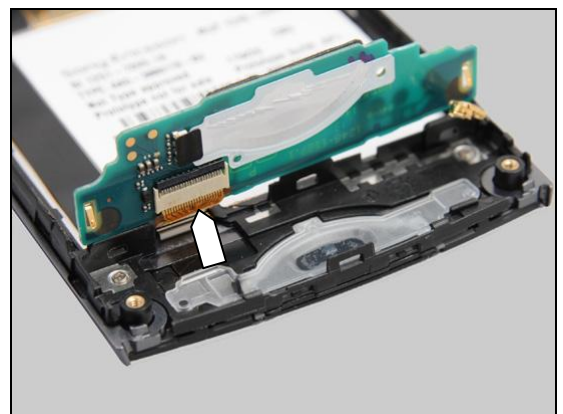


Check:

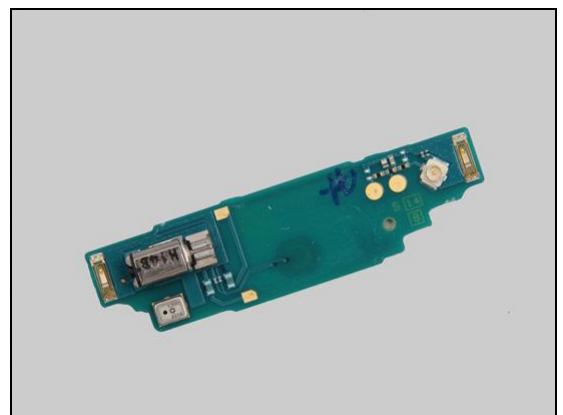
Inspect the ZIF connector of the Sub PBA to the Relay FPC.

Action:

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



3. If the connector is damaged – replace the Sub PBA.



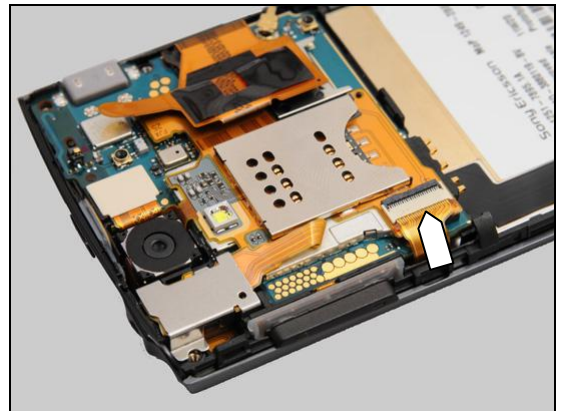
Problem Areas: Speaker

Check:

Check the ZIF connector of the Relay FPC to the SIM FPC Module.

Action:

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

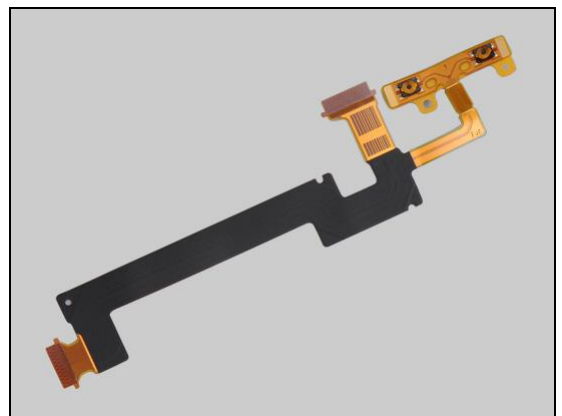


Check:

Inspect the Relay FPC.

Action:

If the Relay FPC or its ZIF connector is damaged – replace the Relay FPC.

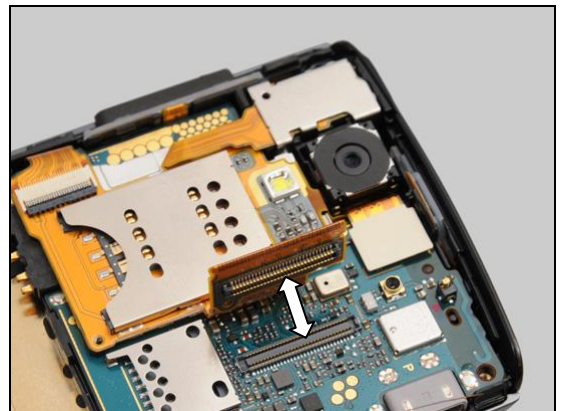


Check:

Check the BtB connector of the SIM FPC Module to the Main PBA.

Action:

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

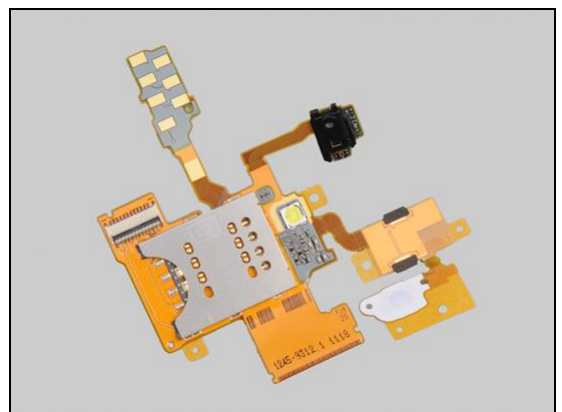


Check:

Inspect the SIM FPC Module.

Action:

1. If the SIM FPC Module or its BtB connector is damaged – replace the SIM FPC Module.
2. Send to higher level of repair.





Problem Areas

1.7 Earphone

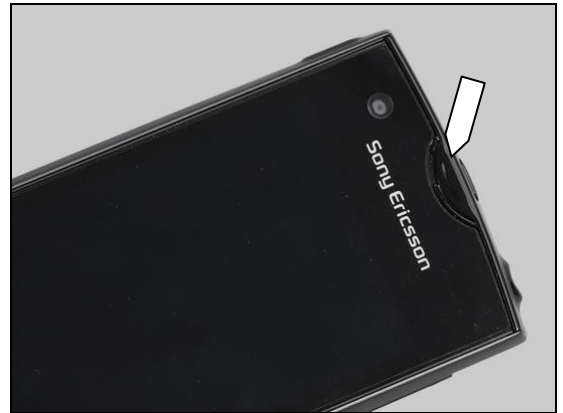
1.7.1 Earphone

Check:

Inspect the Ear Speaker's external port.

Action:

1. If clogged – clean it.



2. If the net receiver is damaged – replace the Cover Front Assy.

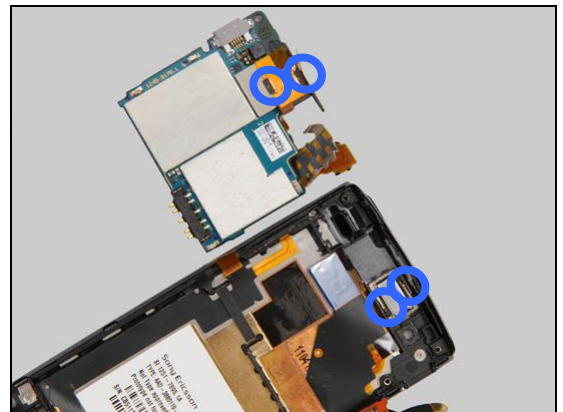


Check:

Inspect the Ear Speaker pins and the pads on the SIM FPC Module.

Action:

If dirty – clean them.



Check:

Inspect the Ear Speaker.

Action:

If the Ear Speaker is damaged – replace the Ear Speaker.





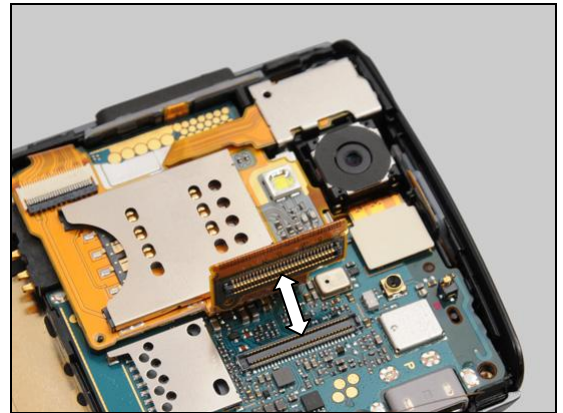
Problem Areas: Earphone

Check:

Check the BtB connector of the SIM FPC Module to the Main PBA.

Action:

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

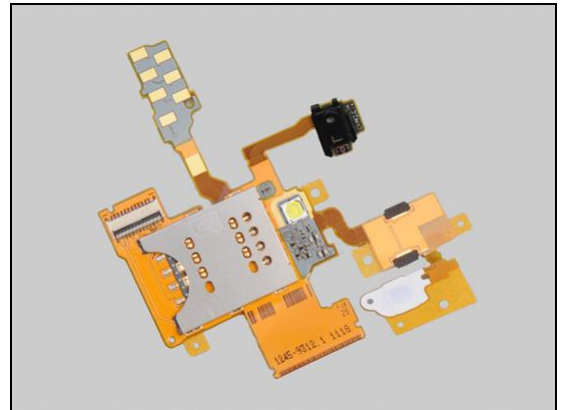


Check:

Inspect the SIM FPC Module.

Action:

1. If the SIM FPC Module or its BtB connector is damaged – replace the SIM FPC Module.
2. Send to higher level of repair.





Problem Areas

1.8 Microphone

1.8.1 Microphone

Check:

Inspect the Microphone's external port on the Cover Panel Bottom.

Action:

1. If clogged – clean the port.



2. If Cover Panel Bottom is damaged – replace it.



Check:

Inspect the Microphone's mesh on the Main Antenna Assy.

Action:

1. If clogged – clean the speaker mesh.



2. If the mesh is damaged – replace the Main Antenna Assy.





Problem Areas: Microphone

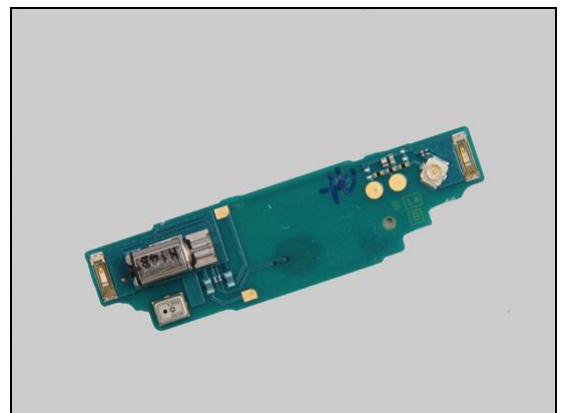
Check:

Inspect the Mic on the Sub PBA.



Action:

If the Mic is damaged – replace the Sub PBA.

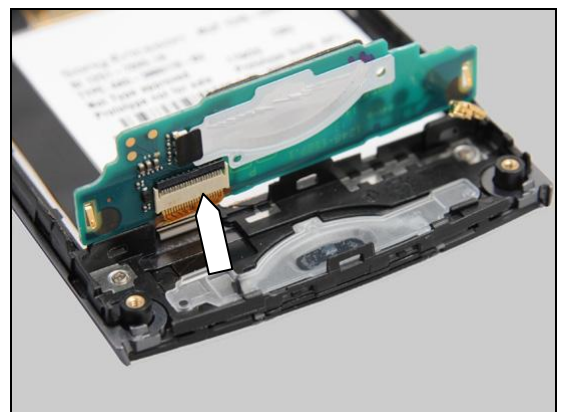


Check:

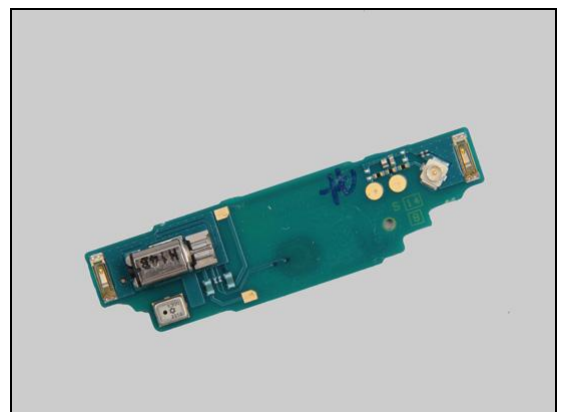
Inspect the ZIF connector of the Sub PBA to the Relay FPC.

Action:

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



3. If the connector is damaged – replace the Sub PBA.





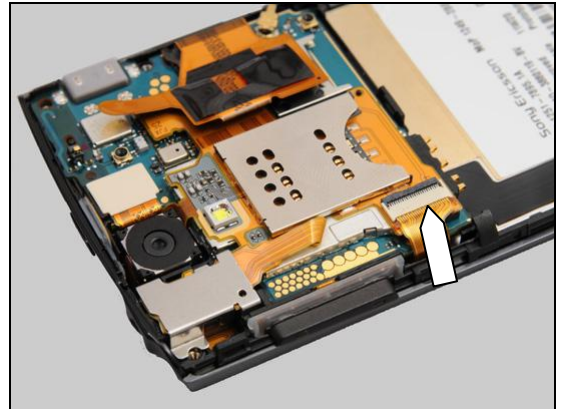
Problem Areas: Microphone

Check:

Check the ZIF connector of the Relay FPC to the SIM FPC Module.

Action:

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

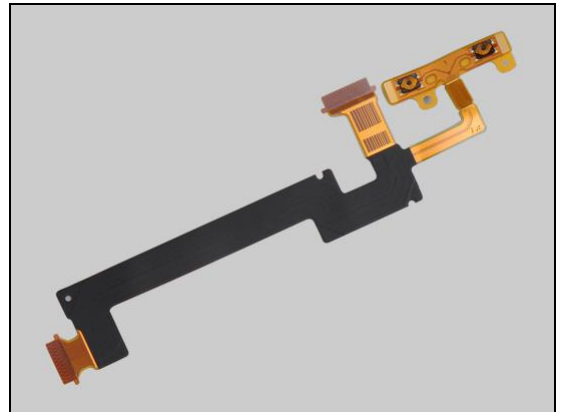


Check:

Inspect the Relay FPC.

Action:

If the Relay FPC or its ZIF connector is damaged – replace the Relay FPC.

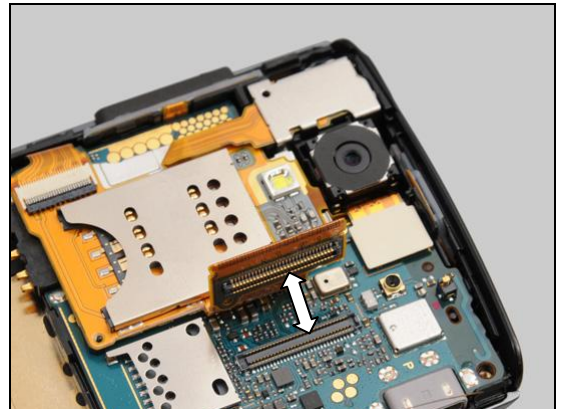


Check:

Check the BtB connector of the SIM FPC Module to the Main PBA.

Action:

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

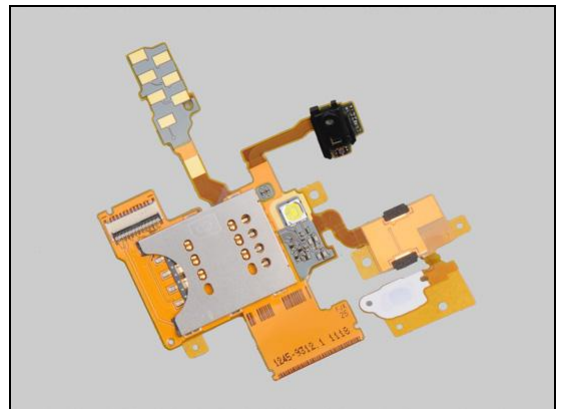


Check:

Inspect the SIM FPC Module.

Action:

1. If the SIM FPC Module or its BtB connector is damaged – replace the SIM FPC Module.
2. Send to higher level of repair.





Problem Areas: Microphone

1.8.2 Secondary Microphone

Check:

Inspect the Microphone's external port on the Cover Battery.

Action:

1. If clogged – clean the port.



2. If Cover Battery is damaged – replace Cover Battery.



Check:

Inspect the Microphone's mesh port on the Cover Rear Assembly.

Action:

1. If clogged – clean the port.



2. If the Cover Rear Assembly is damaged – replace the Cover Rear Assembly.
3. Send to higher level of repair.





Problem Areas

1.9 Vibrator

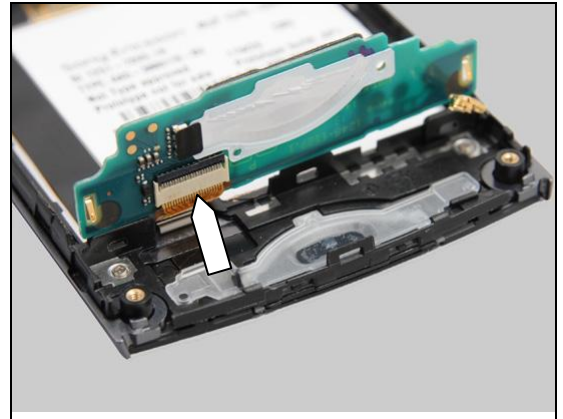
1.9.1 Vibrator not generating alerts

Check:

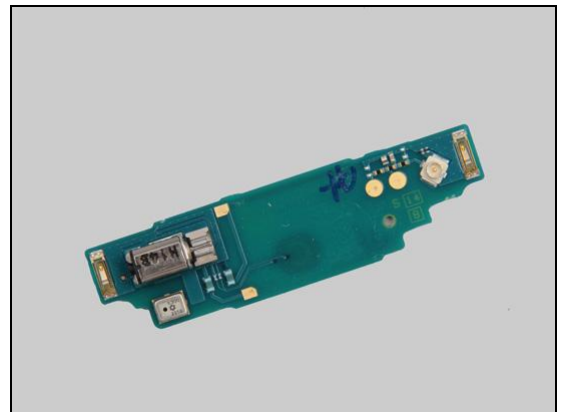
Inspect the ZIF connector of the Sub PBA to the Relay FPC.

Action:

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



3. If the connector is damaged – replace the Sub PBA.

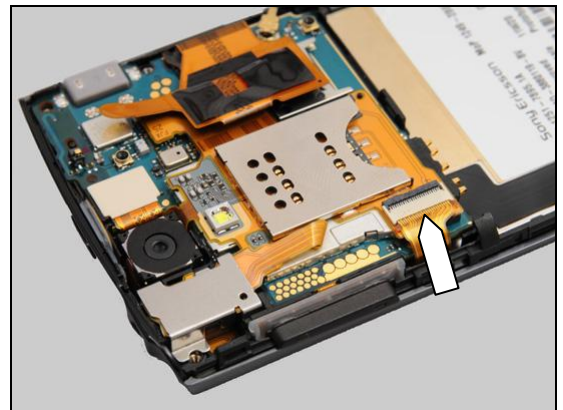


Check:

Check the ZIF connector of the Relay FPC to the SIM FPC Module.

Action:

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

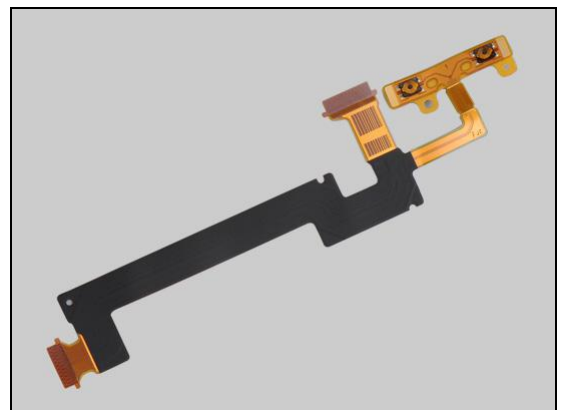


Check:

Inspect the Relay FPC.

Action:

If the Relay FPC or its ZIF connector is damaged – replace the Relay FPC.





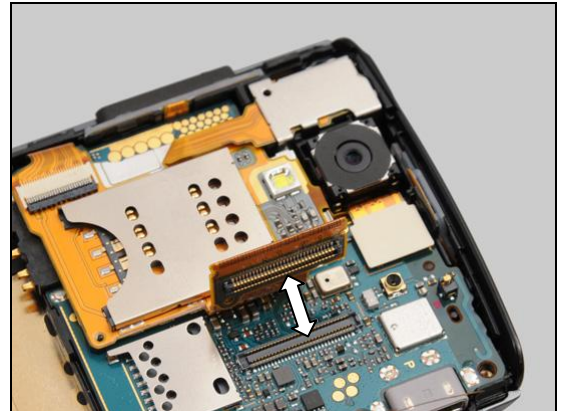
Problem Areas: Vibrator

Check:

Check the BtB connector of the SIM FPC Module to the Main PBA.

Action:

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

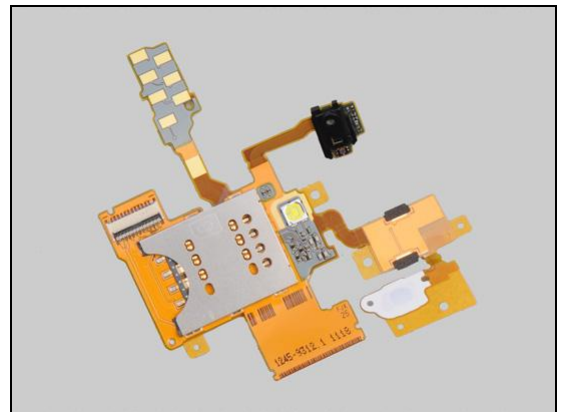


Check:

Inspect the SIM FPC Module.

Action:

1. If the SIM FPC Module or its BtB connector is damaged – replace the SIM FPC Module.
2. Send to higher level of repair.



Problem Areas

1.10 Camera

1.10.1 Camera defects

Check:

Inspect the Camera Window on the Cover Rear Assembly.

Action:

1. If dirty – clean the window.

2. If scratched or damaged – replace the Cover Rear Assembly.

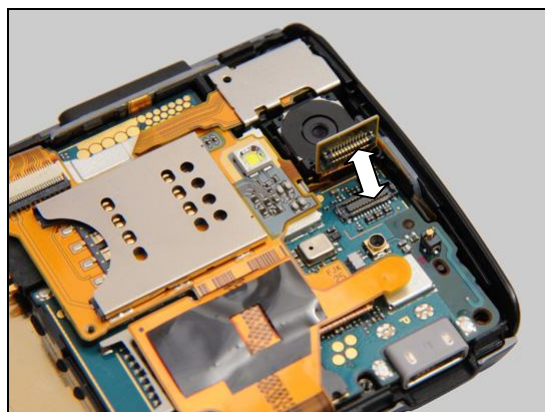


Check:

Inspect the BtB connector of the Main Camera to the Main PBA.

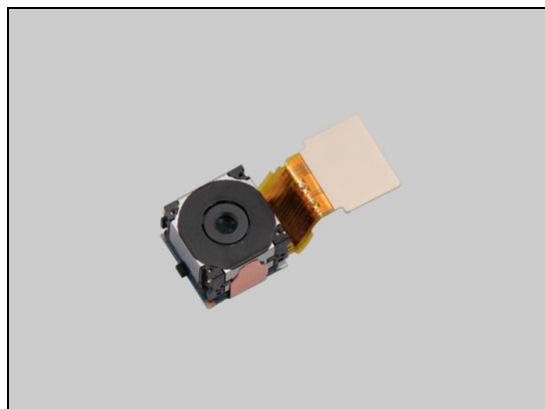
Action:

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



Action:

1. If damaged – replace the Main Camera.
2. Send to higher level of repair.



Problem Areas

1.10.2 Secondary Camera defects

Check:

Inspect the Secondary Camera Window on the Cover Front Assembly.

Action:

1. If dirty – clean the window.
2. If scratched or damaged – replace the Cover Front Assembly.
3. Send to higher level of repair.



Problem Areas

1.11 Flash LED

1.11.1 Flash LED not flashing

Check:

Inspect Flash Lens Window on Cover Rear Assembly.



Action:

If scratched or damaged – replace the Cover Rear Assembly.

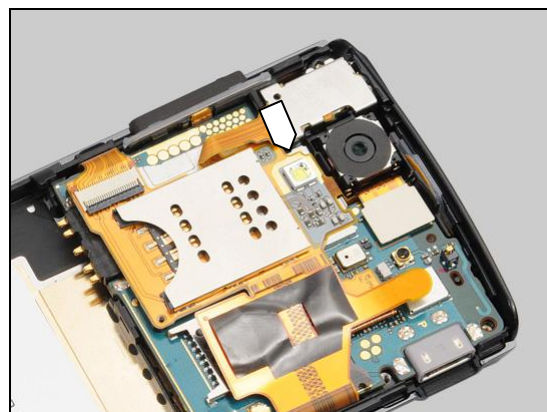


Check:

Inspect the Flash LED on the SIM FPC Module.

Action:

If dirty or clogged – clean the Flash LED

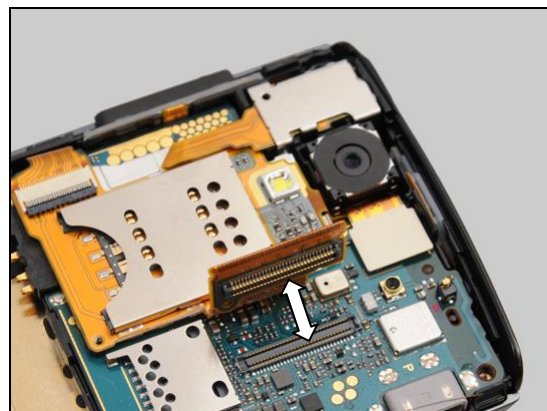


Check:

Check the BtB connector of the SIM FPC Module to the Main PBA.

Action:

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



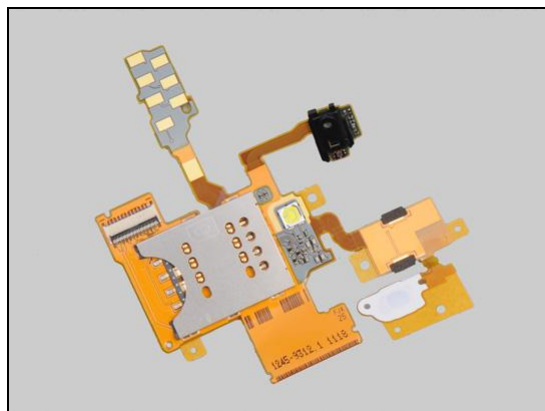
Problem Areas: Flash LED

Check:

Inspect the SIM FPC Module.

Action:

1. If the SIM FPC Module or its BtB connector is damaged – replace the SIM FPC Module.
2. Send to higher level of repair.





Problem Areas

1.12 Bluetooth and WLAN

1.12.1 Bluetooth or WLAN connection failure

Check:

Inspect the GPS Non-Cellular Antenna on the Cover Rear Assembly.

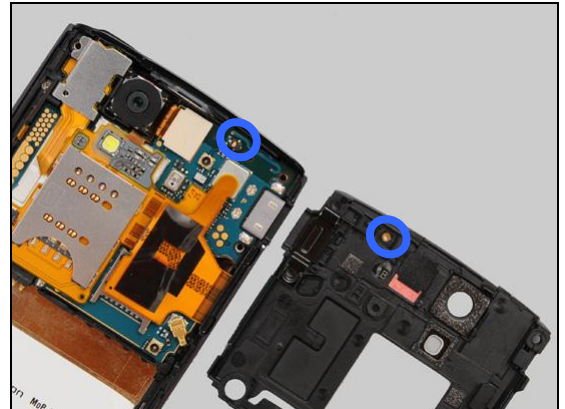


Check:

Inspect the contact pads on the GPS Non-Cellular Antenna and the contact pins on the Main PBA.

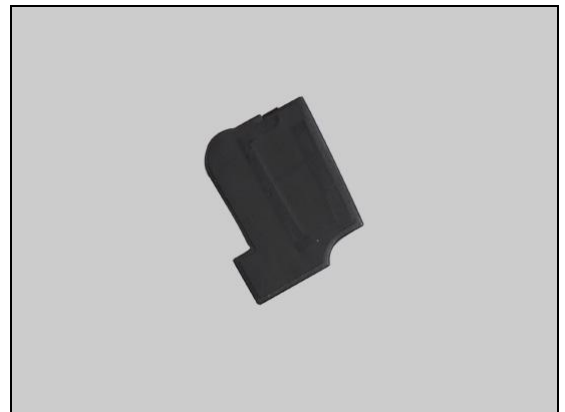
Action:

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



2. If the pads are damaged – replace the GPS Non-Cellular Antenna.

3. Send to higher level of repair.



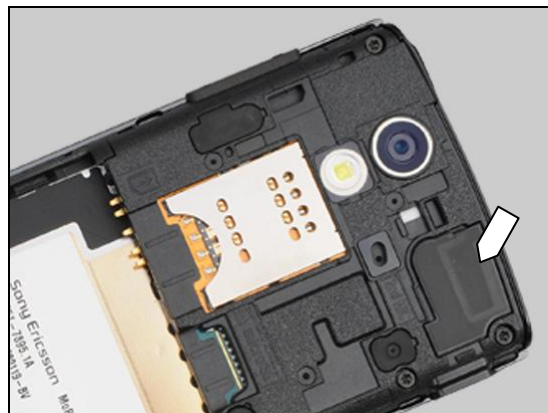
Problem Areas

1.13 GPS

1.13.1 GPS malfunctions

Check:

Inspect the GPS Non-Cellular Antenna on the Cover Rear Assembly.

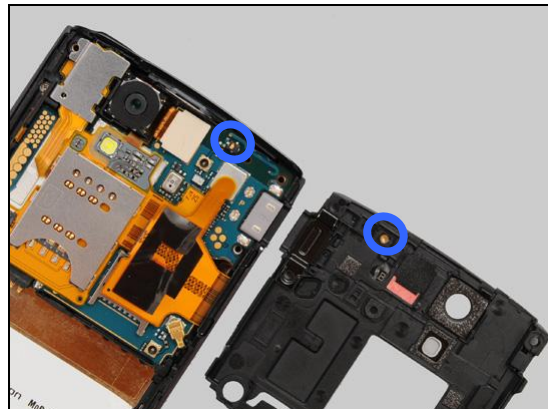


Check:

Inspect the contact pads on GPS Non-Cellular Antenna and the contact pins on the Main PBA.

Action:

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



2. If the pads are damaged – replace the GPS Non-Cellular Antenna.

3. Send to higher level of repair.





Problem Areas

1.14 Compass

1.14.1 Compass fails

Action:

Send to higher level of repair.



Problem Areas

1.15 Accelerometer

1.15.1 Accelerometer test fails

Action:

Send to higher level of repair.

Problem Areas

1.16 Ambient Light Sensor

1.16.1 Light Sensor malfunctions

Check:

Inspect the Light Sensor window on the Cover Front Assy.

Action:

1. If clogged – clean it.



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

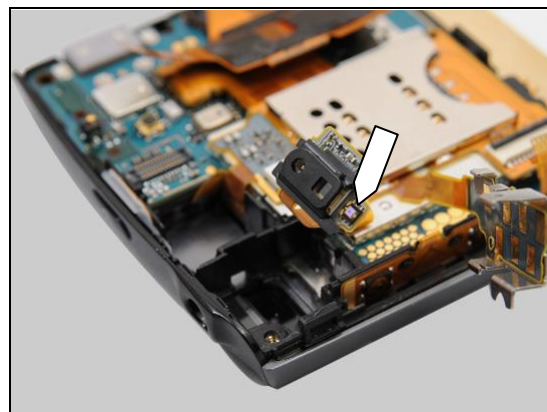


Check:

Inspect the Light Sensor on the SIM FPC Module.

Action:

If dirty or clogged – clean it.



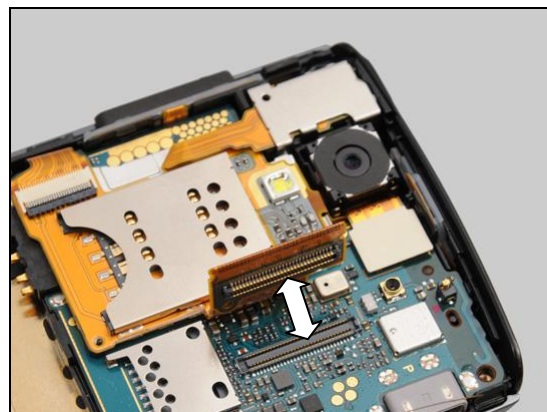
Check:

Inspect the BtB connector of the SIM FPC Module to the Main PBA.

Action:

1. If not properly connected – disconnect and reconnect.

2. If dirty or oxidized – clean both side of the BtB connector.



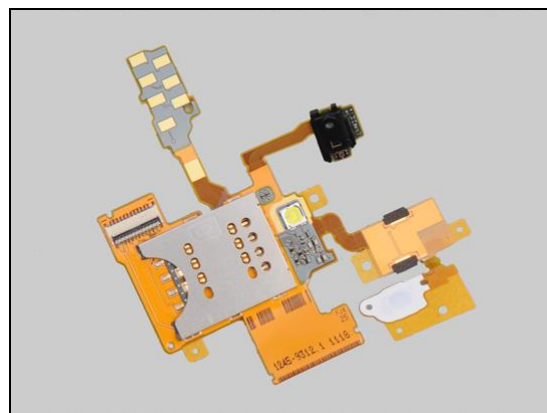
Problem Areas: Ambient Light Sensor

Check:

Inspect the SIM FPC Module.

Action:

1. If the SIM FPC Module or its BtB connector is damaged – replace the SIM FPC Module.
2. Send to higher level of repair.



Problem Areas

1.17 Proximity switch

1.17.1 Proximity switch malfunctions

Check:

Inspect the Proximity switch window on the Cover Front Assy.

Action:

1. If clogged – clean it.



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

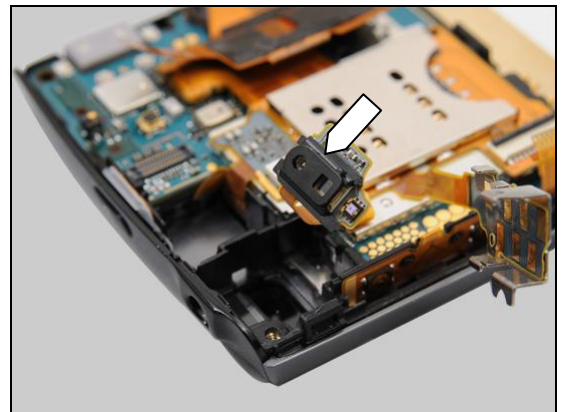


Check:

Inspect the Proximity switch on the SIM FPC Module.

Action:

If dirty or clogged – clean it.

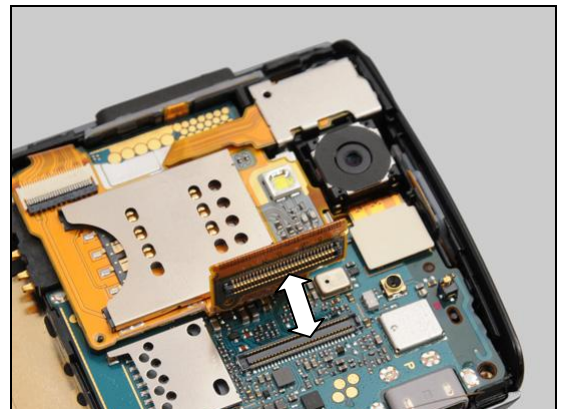


Check:

Inspect the BtB connector of the SIM FPC Module to the Main PBA.

Action:

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



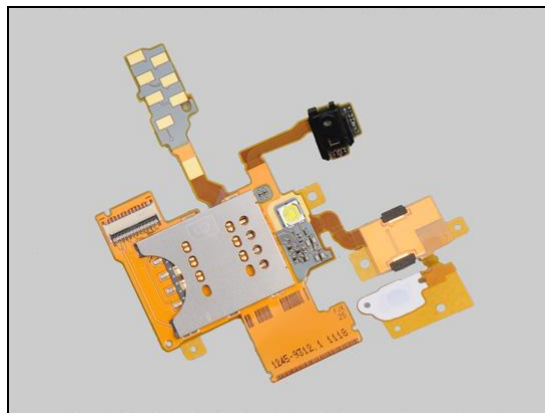
Problem Areas: Proximity switch

Check:

Inspect the SIM FPC Module.

Action:

1. If the SIM FPC Module or its BtB connector is damaged – replace the SIM FPC Module.
2. Send to higher level of repair.





Problem Areas

1.18 Pressure Sensor

1.18.1 Pressure Sensor test fails

Action:

N/A. No Pressure Sensor in the phone.

Problem Areas

1.19 Real Time Clock

1.19.1 Real Time Clock test fails

Action:

Send to higher level of repair.

Problem Areas

1.20 Total call time

1.20.1 Total call time fails

Action:

Send to higher level of repair.

Problem Areas

1.21 External Memory Card

1.21.1 Memory Card not detected

Check:

Inspect the memory card holder on the Cover Rear Assembly.

Action:

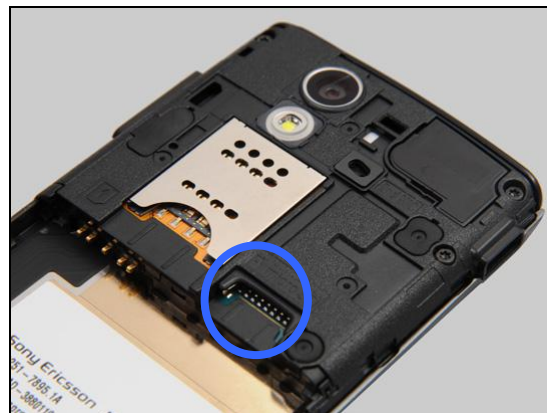
If damaged – replace the Cover Rear Assembly.

Check:

Inspect the Memory Card holder.

Action:

1. If dirty or oxidized – clean the holder.
2. Send to higher level of repair.



Problem Areas

1.22 Security

1.22.1 Security fails

Action:

Send to higher level of repair.



Problem Areas

1.23 FM Radio

1.23.1 No/Poor FM Radio reception

Check:

Inspect the Audio Jack.

Action:

1. If dirty or oxidized – clean the connector.



2. If the Audio Jack has any damage – replace the Audio Jack.

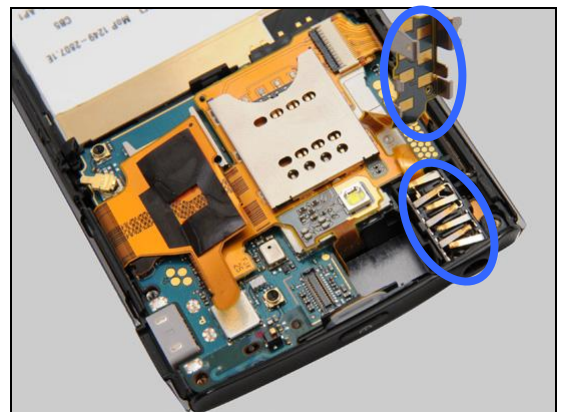


Check:

Inspect the contact pins on the Audio Jack and the contact pads on the SIM FPC Module.

Action:

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



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



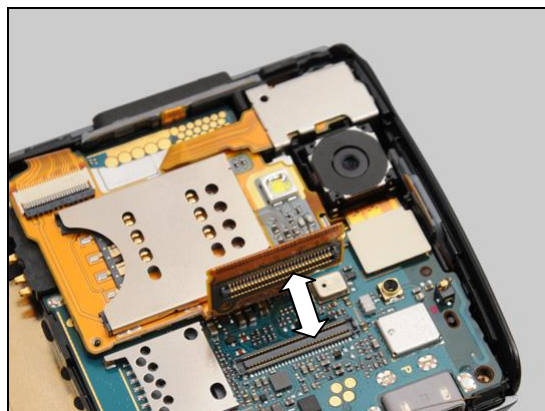
Problem Areas: FM Radio

Check:

Inspect the BtB connector of the SIM FPC Module to the Main PBA.

Action:

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

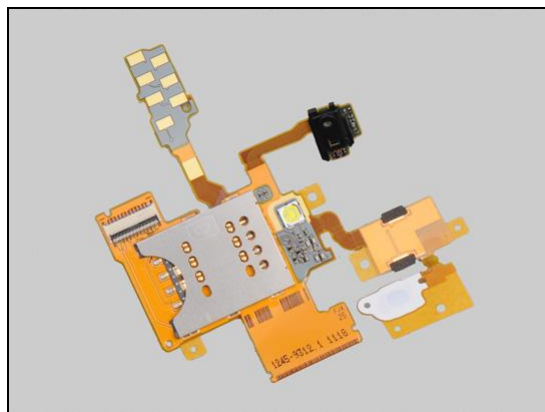


Check:

Inspect the SIM FPC Module.

Action:

1. If the SIM FPC Module or its BtB connector is damaged – replace the SIM FPC Module.
2. Send to higher level of repair.



Problem Areas

1.24 Battery test

1.24.1 Battery test fails

Action:

Send to higher level of repair.



Problem Areas

1.25 Flip slider counter

1.25.1 Flip slider counter test fails

Action:

N/A. No slider phone.



Problem Areas

1.26 Verify Certificates

1.26.1 Verify certificates fails

Action:

Send to higher level of repair.



Problem Areas

1.27 IrDA Test

1.27.1 IrDA Test fails

Action:

N/A. No IrDA in the phone.

Problem Areas

1.28 HDMI Test

1.28.1 HDMI test fails

N/A. No HDMI function in this product.

Problem Areas

1.29 Connector Ground Test

1.29.1 Connector Ground test fails

Send to higher level of repair.



Problem Areas

1.30 Network & Signal

1.30.1 No/Poor signal

Check:

Inspect the Main Antenna Assy.

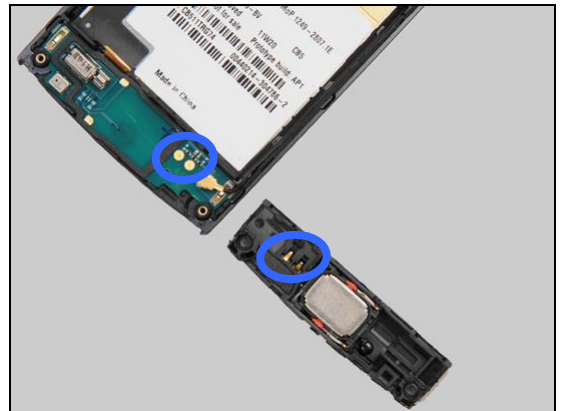


Check:

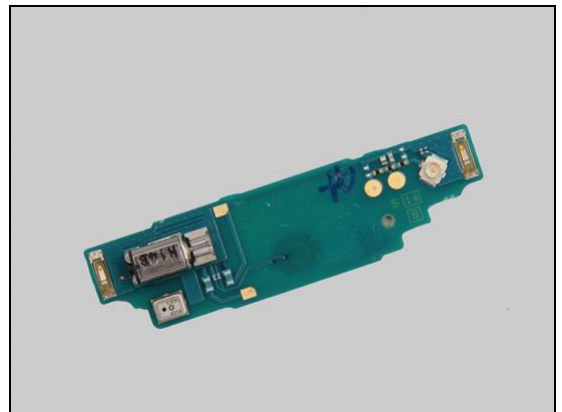
Inspect the contact pins on the Main Antenna Assy and contact pads on the Sub PBA.

Action:

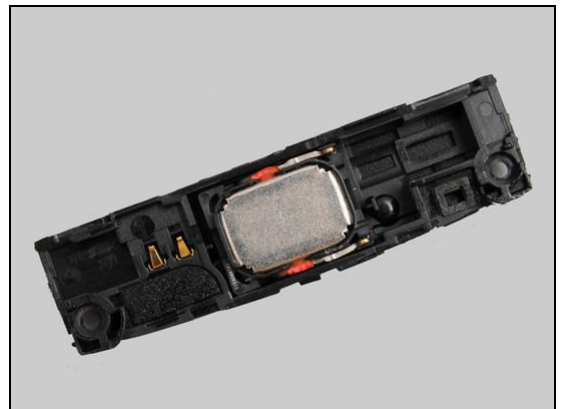
1. If dirty or oxidized – clean the pads and pins.



2. If the pads on the Sub PBA are damaged – replace the Sub PBA.



3. If the pins are damaged – replace Main Antenna Assy.





Problem Areas: Network & Signal

Check:

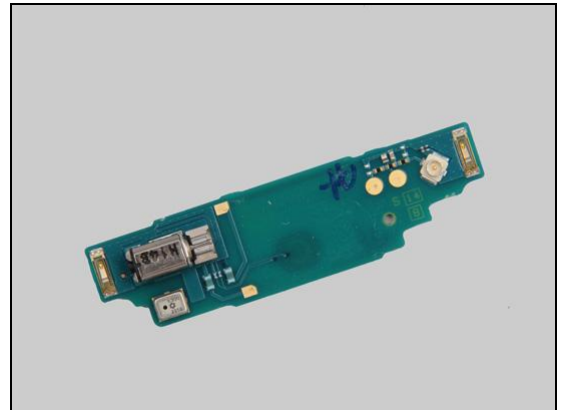
Inspect the connector on Sub PBA to RF Cable.

Action:

1. If not properly connected to the Antenna – disconnect and reconnect it.



2. If damaged – replace the Sub PBA.

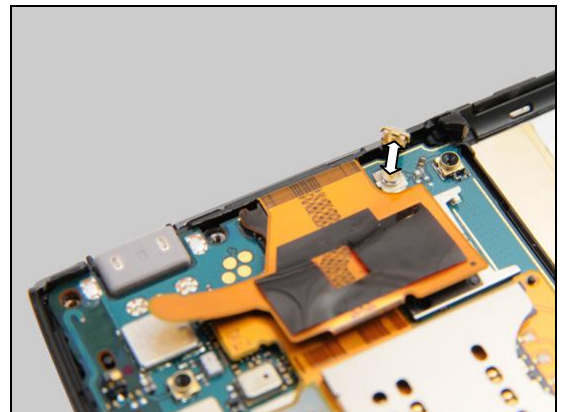


Check:

Inspect the connector RF Cable to the Main PBA.

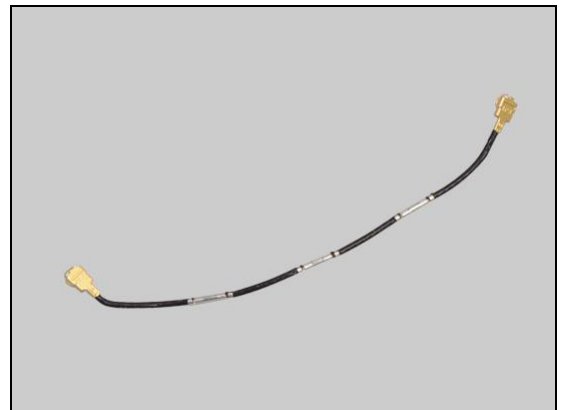
Action:

1. If not properly connected to the Main PBA – disconnect and reconnect it.



2. If damaged – replace the RF Cable.

3. Send to higher level of repair.



Problem Areas

1.30.2 Overheating & Thermal Issues

Check:

Inspect the RF Radiator Sheet.

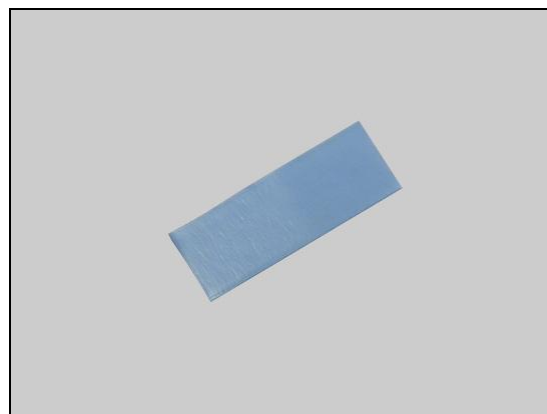


Check:

If the RF Radiator Sheet is damaged!

Action:

1. Replace RF Radiator Sheet.
2. Send to higher level of repair.



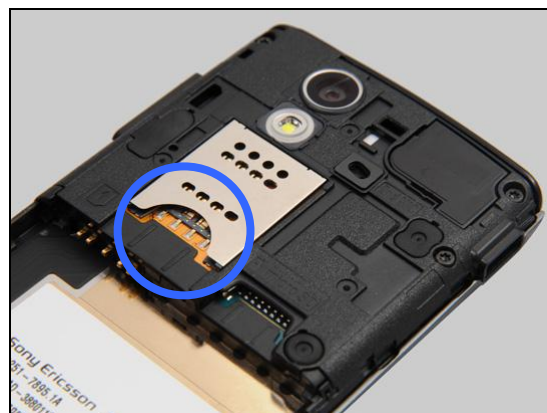
Problem Areas

1.31 SIM

1.31.1 SIM not detected

Check:

Inspect the SIM card holder on the Cover Rear Assembly.



Action:

If damaged – replace the Cover Rear Assembly.



Check:

Inspect the SIM holder.

Action:

1. If dirty or oxidized – clean the holder.

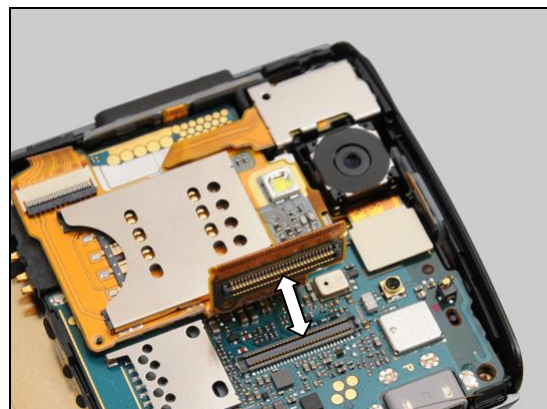


Check:

Check the BtB connector of the SIM FPC Module to the Main PBA.

Action:

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





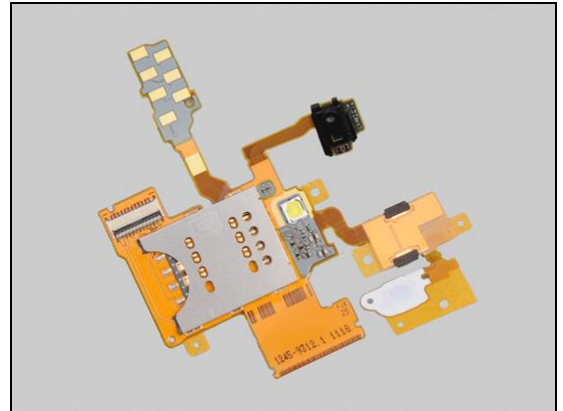
Problem Areas: SIM

Check:

Inspect the SIM FPC Module.

Action:

1. If the SIM FPC Module or its BtB connector is damaged – replace the SIM FPC Module.
2. Send to higher level of repair.



1.31.2 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. Send to higher level of repair.



Problem Areas

1.32 Charging

1.32.1 Battery will not charge

Check:

Inspect the contact pads of the Battery.

Action:

1. If dirty or oxidized – clean the pads.
2. If damaged – replace the Battery.



Check:

Inspect the Battery Contact pins.

Action:

1. If dirty or oxidized – clean the contact pins.
2. If adhesive is detected on the contact pins – use an eraser to gently rub off the adhesive.



Check:

Inspect the USB connector.

Action:

1. If dirty or oxidized – clean the connector.
2. Send to higher level of repair.





Problem Areas

1.33 HandsFree by Wire

1.33.1 Connection to Portable HandsFree fails

Check:

Inspect the Audio Jack.

Action:

1. If dirty or oxidized – clean the connector.



2. If the Audio Jack has any damage – replace the Audio Jack.

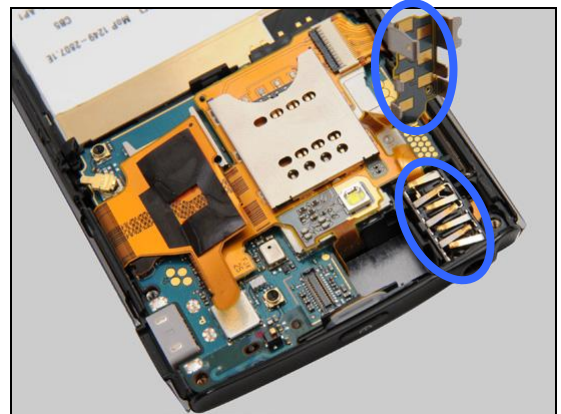


Check:

Inspect the contact pins on the Audio Jack and the contact pads on the SIM FPC Module.

Action:

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



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





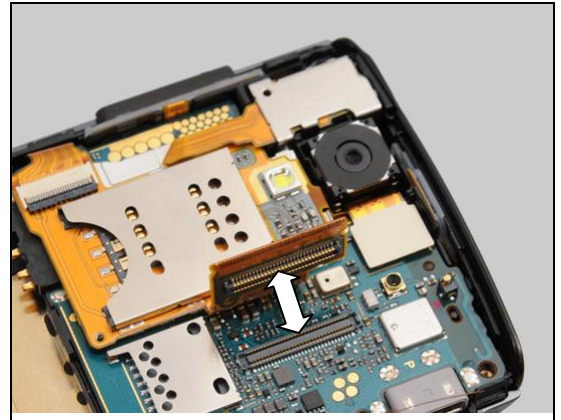
Problem Areas: HandsFree By Wire

Check:

Inspect the BtB connector of the SIM FPC Module to the Main PBA.

Action:

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

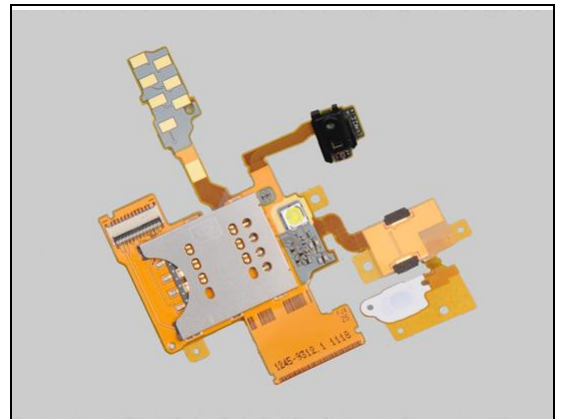


Check:

Inspect the SIM FPC Module.

Action:

1. If the SIM FPC Module or its ZIF connector is damaged – replace the RCV Flex PBA.
2. Send to higher level of repair.



Problem Areas

1.34 Data Communication

1.34.1 Data transfer via System Connector fails

Check:

Inspect the USB connector.

Action:

1. If dirty or oxidized – clean the connector.
2. Send to higher level of repair.





2 Revision History

Rev.	Date	Changes / Comments
1	2011-Aug-11	Released
2	2011-Sep-06	Overheating & Thermal issues added.
3	2011-Sep-16	Chapter 1.10.2 updated
4	2011-Oct-18	Chapter Text updated (1.8.2 / 1.10.1 / 1.11.1 / 1.13.1)
5	2012-Oct-05	Main display V-sync calibration added to 1.4