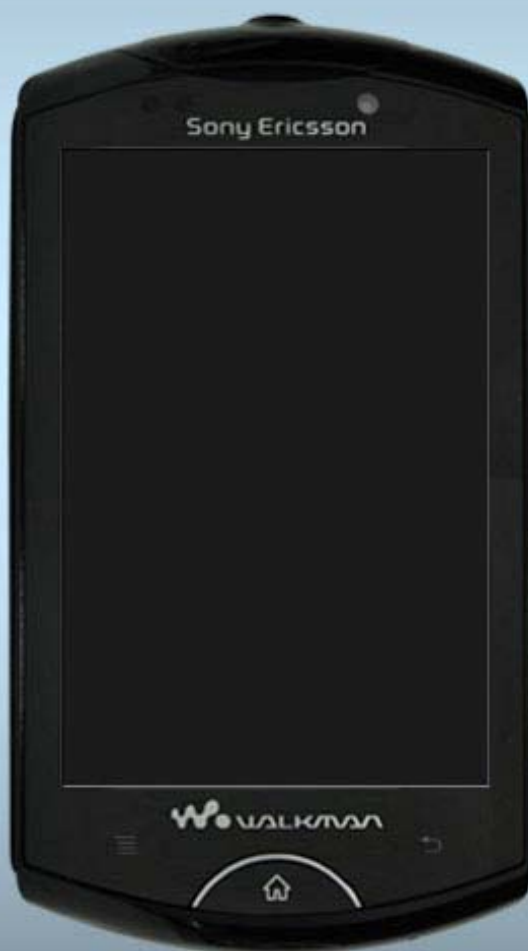




Sony Ericsson

Troubleshooting Guide

- mechanical -



WT18i

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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 power key is depressed.

Action:

If activation of the Vibrator and Keyboard illumination is detected, refer to section 1.3 '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 Connector Battery 5p.

Action:

1. If dirty or oxidized – clean it.
2. If adhesive is detected on the contact pins, use an eraser to gently rub off the adhesive.
3. If damaged – send to higher level of repair.



Problem Areas

1.2 Keys

1.2.1 Key Home

Check:

Inspect the Key Home.

Action:

1. If clogged – clean it.

2. If damaged – replace it.



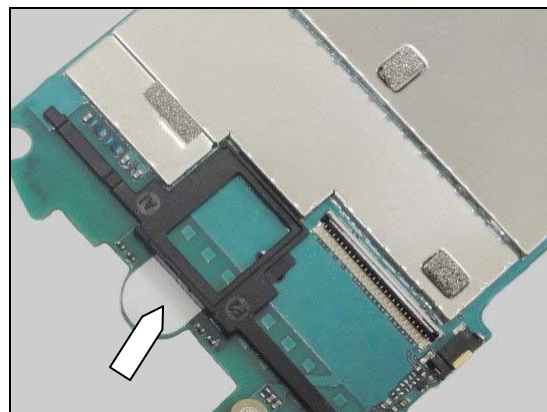
Check:

Inspect the Dome Sheet Home Key.

Action:

1. If clogged – clean it.

2. If damaged – replace it.



1.2.2 On/Off/Lock Key & Walkman Key

Check:

Inspect the Power Key.

Action:

1. If dirty – clean it.



Problem Areas

2. If damaged – replace the Front Cover+TP+LCM Sponge assy.
3. Send to the higher level of repair.



Check:

The connection between Front Cover+TP+LCM Sponge assy and PCBA.

Action:

1. If not properly connected – Disconnect and reconnect.
2. If dirty or oxidized – Clean the FPC pads.



3. If the FPC ASSY VOLUME KEY damaged – Replace it.
4. Send to higher level of repair.



1.2.3 Volume Key & Camera Key

Check:

Inspect the Volume Key & Camera Key.

Action:

1. If dirty– clean it.



2. If damaged – replace the Volume Key & Camera Key.

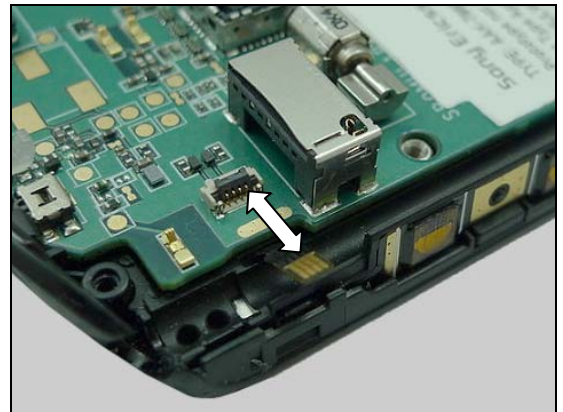


Check:

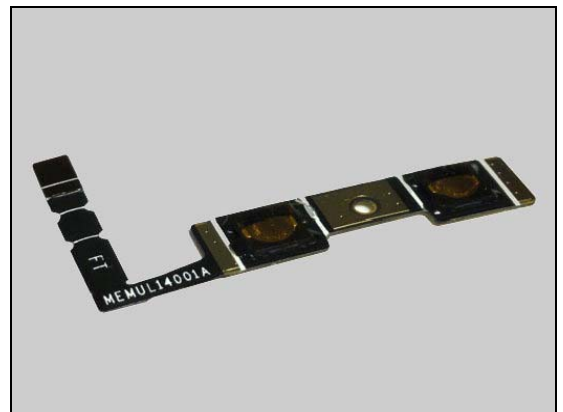
The connection between FPC ASSY VOLUME KEY and PCBA.

Action:

1. If not properly connected – Disconnect and reconnect.
2. If dirty or oxidized – Clean the FPC pads.



3. If the FPC ASSY VOLUME KEY damaged – Replace it.
4. Send to higher level of repair.



Problem Areas

1.3 Display

1.3.1 Graphics & Illumination

Check:

Check whether the phone vibrates and the Keyboard illuminates after the power key has been pressed.

Action:

If activation of the Vibrator and the Keyboard illumination is not detected, refer to section 1.1 'Power'.

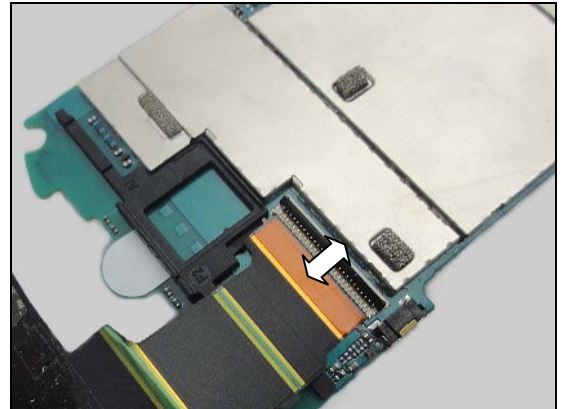


Check:

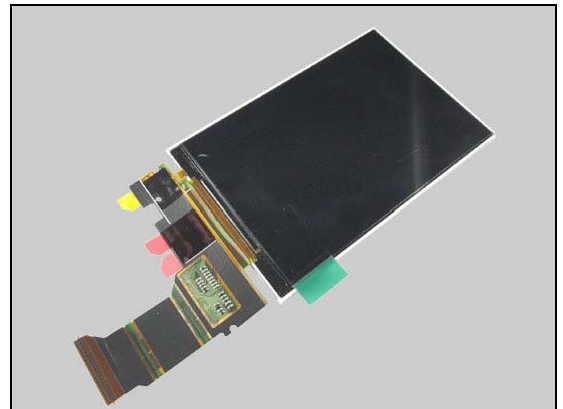
The connection between Display and PCBA.

Action:

1. If not properly connected – Disconnect and reconnect.
2. If dirty or oxidized – Clean the FPC pads.



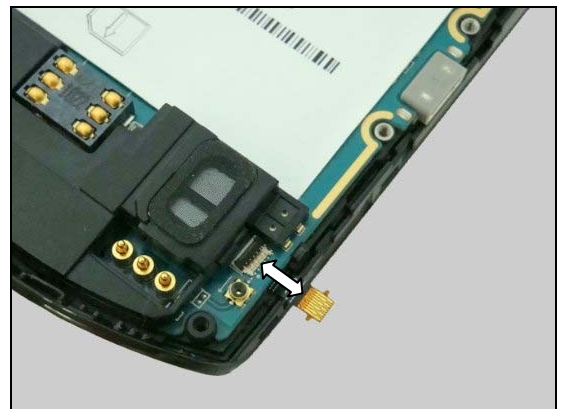
3. If the FPC damaged – Replace the LCM TFT 3.2" HVGA.
4. Send to higher level of repair.



1.3.2 Touch Screen malfunction

Check:

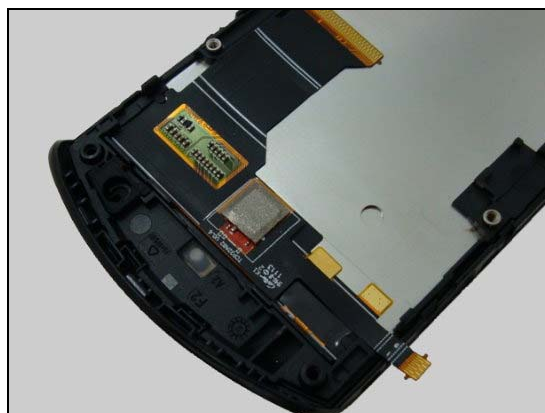
Check the connection between Display and Main PCBA.



Problem Areas

Action:

1. If not properly connected – Disconnect and reconnect.
2. If dirty or oxidized – Clean the FPC pads.



Check:

Inspect the Front Cover+TP+LCM Sponge assy.

Action:

1. If damaged – Replace it.
2. Send to higher level of repair.



1.3.3 Soft Key illumination

Check:

Check the connection between Display and Main PCBA.

Action:

1. If not properly connected – Disconnect and reconnect.
2. If dirty or oxidized – Clean the FPC pads.



Check:

Inspect the Front Cover+TP+LCM Sponge assy.

Action:

1. If damaged – Replace it.
2. Send to higher level of repair.



Problem Areas

1.4 Audio

1.4.1 Microphone

Check:

Inspect the Microphone's external from outside.

Action:

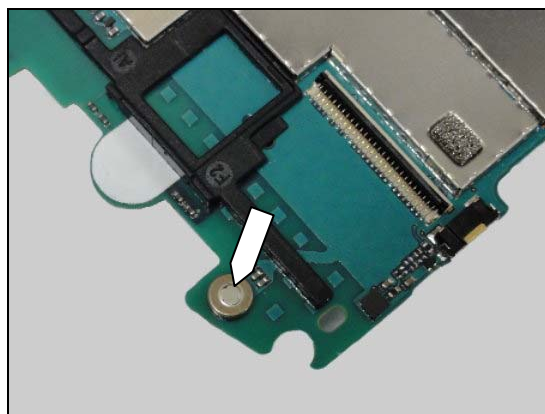
If clogged – clean the port

**Check:**

Inspect the Microphone on the PCBA.

Action:

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



Problem Areas

1.4.2 Receiver

Check:

Inspect the Receiver's external port.

Action:

1. If clogged – clean it or replace the Front Cover+TP+LCM
Sponge assy.

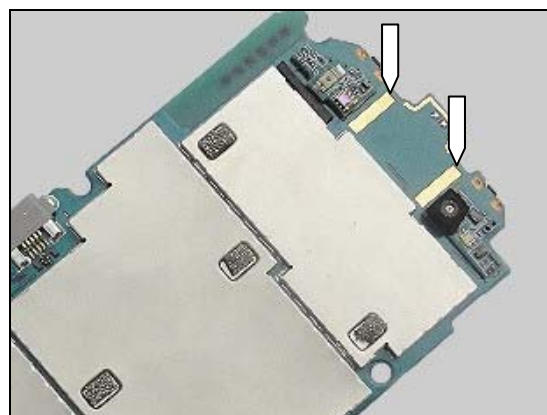


Check:

Inspect the PCB pads.

Action:

1. If dirty or oxidized – Clean the pads on PCBA.

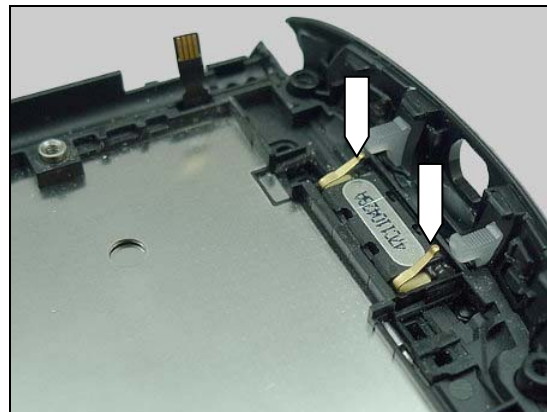


Check:

Inspect the Pins of Receiver.

Action:

1. If dirty or oxidized – Clean the pins of Receiver.
2. If damaged – replace it.
3. Send to higher level of repair.



Problem Areas

1.4.3 Loudspeaker

Check:

Inspect the Loudspeaker's external port.

Action:

1. If clogged – clean the speaker port.



2. Replace the Mesh Speaker Battery Cover.



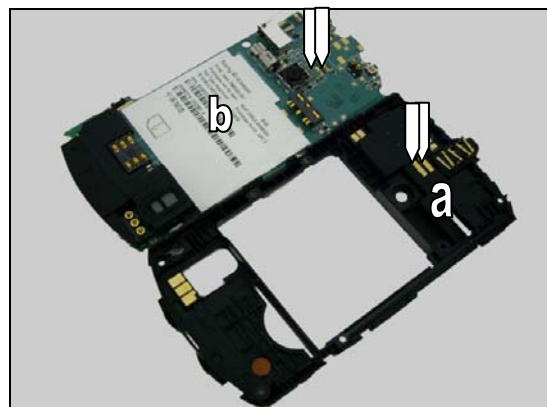
3. Speaker Box Top:

Check:

Inspect the pads of PCBA (b) and the pins on Speaker Box Top (a).

Action:

1. If dirty or oxidized – Clean the pads on PCBA (b) and pins on Speaker Box Top (a).



2. If Speaker Box Top damaged –Replace the Speaker Box Top.



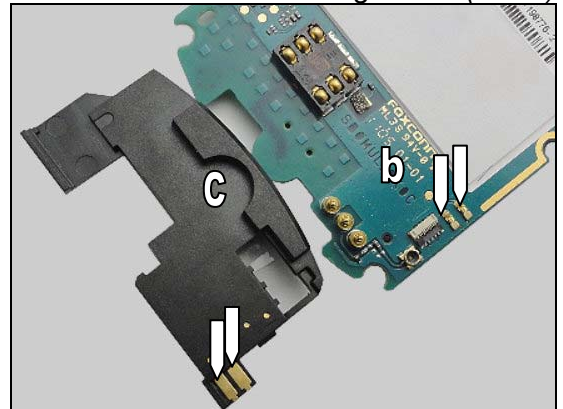
4. Speaker Box Bottom:

Check:

Inspect the pads of PCBA (b) and the pins on Speaker Box Bottom (c).

Action:

1. If dirty or oxidized – Clean the pads on PCBA (b) and pins on Speaker Box Bottom (c).
2. If Speaker Box Bottom damaged –Replace the Speaker Box Bottom (c).



Problem Areas

1.5 Camera

1.5.1 Camera defects

Check:

Inspect the camera window.

Action:

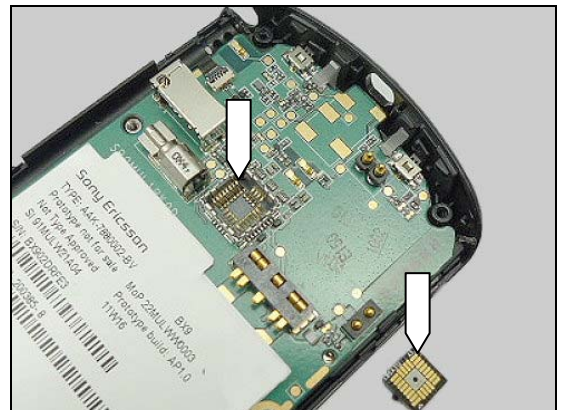
1. If dirty – clean the window.

2. If scratched or damaged – replace the Assy Housing Rear.

3. If Camera socket or CAM 3M FF QXGA dirty– clean it.

4. If CAM 3M FF QXGA damaged – Replace it.

5. Send to higher level of repair.



Problem Areas

1.6 SIM

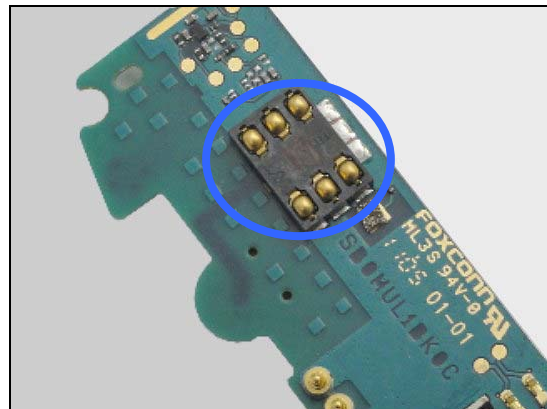
1.6.1 SIM not detected

Check:

Inspect the Card Conn SIM.

Action:

1. If dirty or oxidized – clean it.
2. If adhesive is detected – use an eraser to gently rub off the adhesive.
3. Send to higher level of repair.



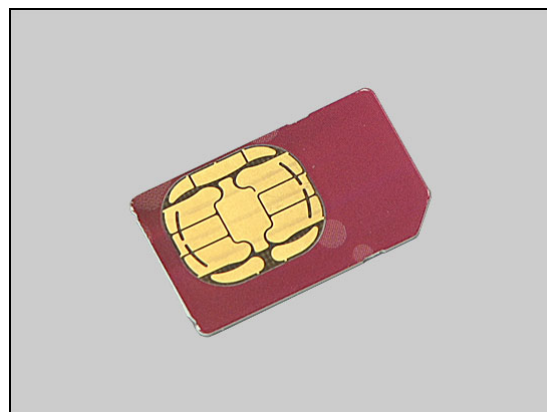
1.6.2 Incorrect SIM indicated

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

1.7 Memory Card

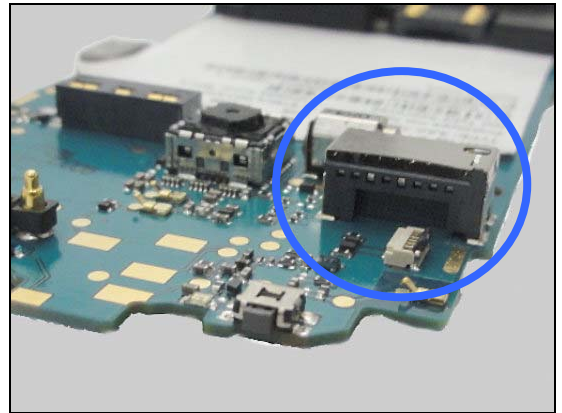
1.7.1 Memory Card not detected

Check:

Inspect the Card Conn Micro SD MicroSD reader, 5.25mm high.

Action:

1. If dirty or oxidized – clean it.
2. If adhesive is detected – use an eraser to gently rub off the adhesive.
3. Send to higher level of repair.



Problem Areas

1.8 Real Time Clock

1.8.1 Real Time Clock test fails

Action:

Send to higher level of repair.

Problem Areas

1.9 Charging

1.9.1 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 Connector Micro USB.

Action:

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



Check:

Inspect the Connector Battery 5p.

Action:

1. If dirty or oxidized – clean it.
2. If adhesive is detected on the contact pins, use an eraser to gently rub off the adhesive.
3. If damaged – send to higher level of repair.



Problem Areas

1.10 Data Communication

1.10.1 Data transfer via Connector Micro USB fails

Make sure the settings parameter is correct firstly!

Check:

Inspect the Connector Micro USB.

Action:

1. If dirty or oxidized – clean it.
2. If damaged – Send to higher level of repair.



Problem Areas

1.11 HandsFree by Wire

1.11.1 Connection to Portable HandsFree fails

Check:

Inspect the Audio Jack.

Action:

1. If dirty or oxidized – clean it.

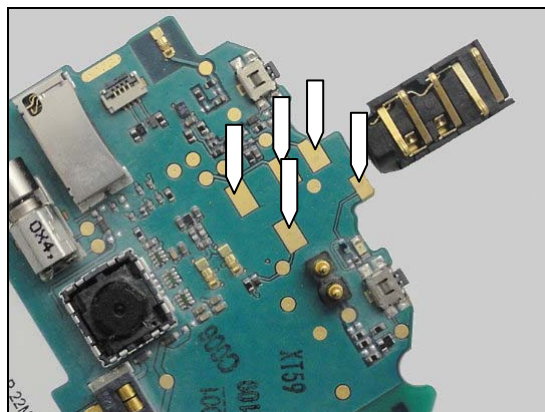


Check:

Inspect the PCB pads.

Action:

1. If dirty or oxidized – Clean the pads on PCBA.

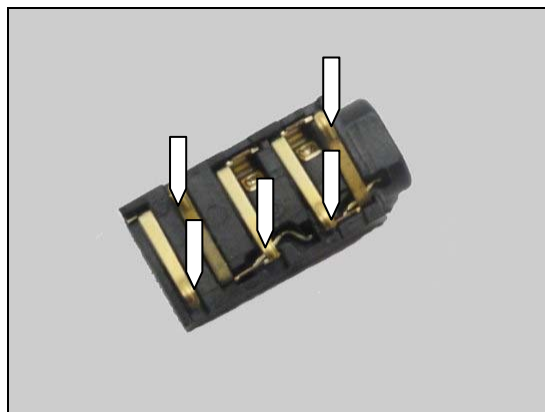


Check:

Inspect the Pins of Audio Jack.

Action:

1. If dirty or oxidized – Clean the pins of the Audio Jack.
2. If damaged – replace it.
3. Send to higher level of repairing.



Problem Areas

1.12 Bluetooth, GPS, Wi-Fi

1.12.1 Bluetooth, Wi-Fi malfunctions

Check:

Inspect the antenna contact pad/pin (refer to the arrow of the right-hand side picture) on the Main PCBA and the Assy Housing Rear.

Action:

1. If dirty or oxidized – clean the pads on PCBA and pins of Assy Housing Rear.



2. If damaged – Replace the Assy Housing Rear.
3. Send to higher level of repair.



1.12.2 GPS malfunctions

Check:

Inspect the antenna contact pad/pin (refer to the arrow of the right-hand side picture) on the Main PCBA and the Assy Housing Rear.

Action:

1. If dirty or oxidized – clean the pads on PCBA and pins of Assy Housing Rear.



2. If damaged – Replace the Assy Housing Rear. the Assy Housing Rear.
3. Send to higher level of repair.



Problem Areas

1.13 Mobile TV

1.13.1 Mobile TV malfunctions

Check:

Inspect the antenna contact pad/pin on the Main PCBA and the CMMB Antenna.

Action:

1. If dirty or oxidized – clean the pads on PCBA and pins of Assy Housing Rear.



2. If damaged – Replace the CMMB Antenna.
3. Send to higher level of repair.

Problem Areas

1.14 FM Radio

1.14.1 No/Poor FM Radio reception

Check:

Inspect the Audio Jack.

Action:

1. If dirty or oxidized – clean it.

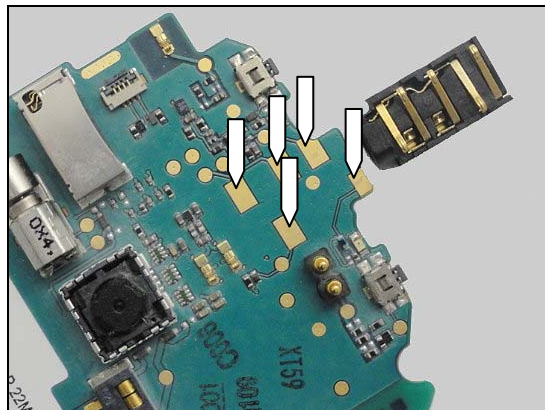


Check:

Inspect the PCB pads.

Action:

1. If dirty or oxidized – Clean the pads on PCBA.

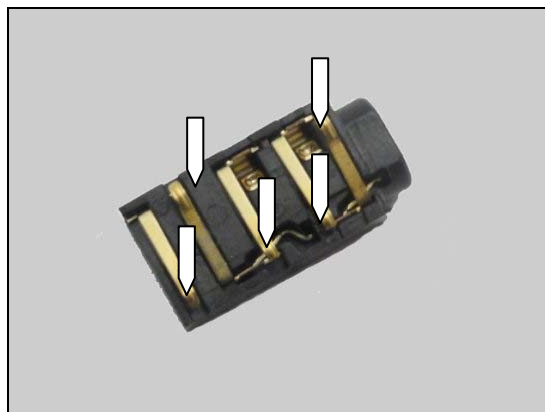


Check:

Inspect the Pins of Audio Jack.

Action:

1. If dirty or oxidized – Clean the pins of the Audio Jack.
2. If damaged – replace it.
3. Send to higher level of repair.



Problem Areas

1.15 Network & Signal

1.15.1 No/Poor signal

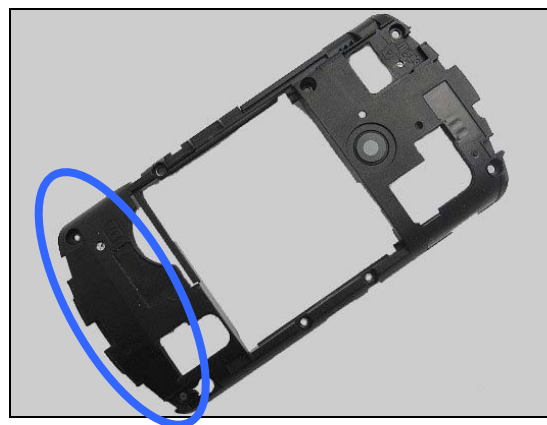
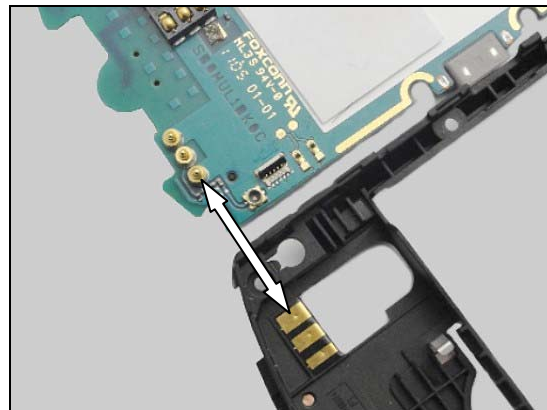
Check:

Ensure that a correct SIM is installed.

Inspect the contact pads on the PCBA /pins on the Assy Housing Rear.

Action:

1. If dirty or oxidized – clean the contact pads on the PCBA/pins on the Assy Housing Rear.
2. If damaged – Replace the Assy Housing Rear.remove top box
3. Send to higher level of repair.





2 Revision History

Rev.	Date	Changes / Comments
1	2011-07-11	Initial release