

# SERVICE MANUAL

## Level 1&2

# NOKIA 6131 NFC

RM-216

**Transceiver characteristics:****Band:** Quad band phone for GSM/EDGE 850/900/1800/1900MHz**Camera:** 1.3-megapixel camera with 8x digital zoom  
(1280 x 960 pixel resolution)**Display:****-Main:** Active TFT QVGA display supports up to 16,777,216 colors  
(320 x 240 pixels, 5,588cm (2.2 inches))**-Outer Display:** Active TFT display supports up to 262,144 colors  
(128 x 160 pixels, 3,4544cm (inches 1.36))**NFC:** Near Field Communication**Bluetooth****IrDa****FM Radio****Connector:** Pop-Port™ connector**Memory Card:** microSD

Transceiver with BL-4c Li-Ion battery pack

Talk time	Standby	Note	Charging
up to 3.4h	up to 10days	Depends on network parameters	Up to 2 hours 10 minutes

**Environmental characteristics:**

- Lead-free soldered

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**CHANGE HISTORY**

Status	Version No.	Date	Comments
Draft	0.1	5.Dec.2006	Initial draft
Approved	1.0	10.Jan.2007	Approval
Approved	2.0	11.Jan.2007	SS-121 added to tools chapter
Approved	3.0	29.Jan.2007	Text under pic 12 on page 22 modified
Approved	4.0	12.Sept.2007	Exploded view & Spare Parts overview updated

## 1. INTRODUCTION

The purpose of this document is to help NOKIA service levels 1 and 2 workshop technicians to carry out service to NOKIA products. This Service Manual is to be used only by authorized NOKIA service suppliers, and the content of it is confidential. Please note that NOKIA provides also other guidance documents (e.g. Service Bulletins) for service suppliers, follow these regularly and comply with the given instructions.

While every endeavor has been made to ensure the accuracy of this document, some errors may exist. If you find any errors or if you have further suggestions, please notify NOKIA using the address below:

<mailto:cc-ts-rc.documentation@nokia.com>

Please keep in mind also that this documentation is continuously being updated and modified, so watch always out for the newest version.

### Warnings and Cautions

Please refer to the phone's user guide for instructions relating to operation, care and maintenance including important safety information. Note also the following:

#### Warnings:

1. CARE MUST BE TAKEN ON INSTALLATION IN VEHICLES FITTED WITH ELECTRONIC ENGINE MANAGEMENT SYSTEMS AND ANTI-SKID BRAKING SYSTEMS. UNDER CERTAIN FAULT CONDITIONS, EMITTED RF ENERGY CAN AFFECT THEIR OPERATION. IF NECESSARY, CONSULT THE VEHICLE DEALER/MANUFACTURER TO DETERMINE THE IMMUNITY OF VEHICLE ELECTRONIC SYSTEMS TO RF ENERGY.
2. THE HANDPORTABLE TELEPHONE MUST NOT BE OPERATED IN AREAS LIKELY TO CONTAIN POTENTIALLY EXPLOSIVE ATMOSPHERES, EG PETROL STATIONS (SERVICE STATIONS), BLASTING AREAS ETC.
3. OPERATION OF ANY RADIO TRANSMITTING EQUIPMENT, INCLUDING CELLULAR TELEPHONES, MAY INTERFERE WITH THE FUNCTIONALITY OF INADEQUATELY PROTECTED MEDICAL DEVICES. CONSULT A PHYSICIAN OR THE MANUFACTURER OF THE MEDICAL DEVICE IF YOU HAVE ANY QUESTIONS. OTHER ELECTRONIC EQUIPMENT MAY ALSO BE SUBJECT TO INTERFERENCE.

#### Cautions:

1. Servicing and alignment must be undertaken by qualified personnel only.
2. Ensure all work is carried out at an anti-static workstation and that an anti-static wrist strap is worn.
3. Use only approved components as specified in the parts list.
4. Ensure all components, modules screws and insulators are correctly re-fitted after servicing and alignment.
5. Ensure all cables and wires are repositioned correctly.

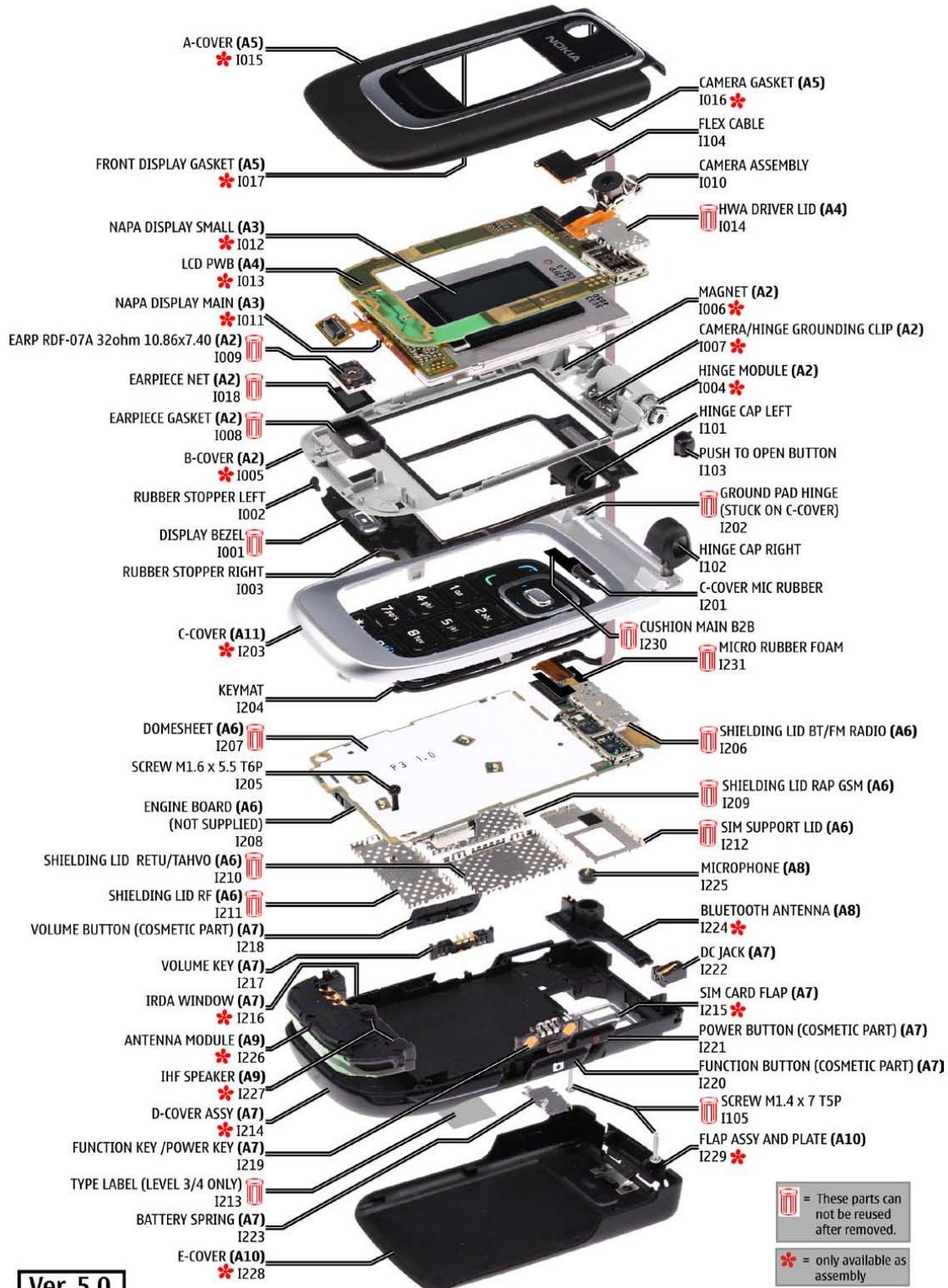


Electrostatic discharge can easily damage the sensitive components of electronic products. Therefore every Service Supplier has to take care of all precautions, which are mentioned in the service level related "Service Partner Requirements", available on NOKIA Online. Also see ESD Protection Requirements in this Service Manual.

## 2. EXPLODED VIEW

See corresponding ITEM/CIRCUIT REF in the Spare Parts Service Bulletins on NOL.

### 6131NFC RM-216 Exploded view



 = These parts can not be reused after removed.


 = only available as assembly

Ver. 5.0

### 3. SPARE PARTS OVERVIEW

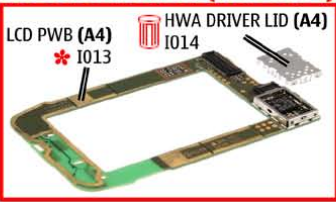
#### 6131NFC RM-216 Spare Parts overview

**A11=C-COVER SERVICE ASSY (I203)**



C-COVER (A11)  
I203 \*


**A4=LCD PWB ASSY (I013-I014)**



LCD PWB (A4)  
I013 \*

HWA DRIVER LID (A4)  
I014

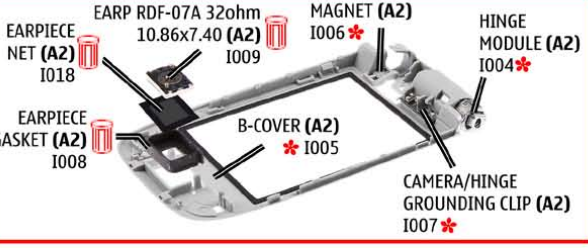
**A8=BLUETOOTH ANTENNA ASSEMBLY (I224-I225)**



MICROPHONE (A8)  
I225

BLUETOOTH ANTENNA (A8)  
I224 \*

**A2=B-COVER ASSY (I004-I009, I018)**



EARPIECE NET (A2)  
I018

EARPIECE GASKET (A2)  
I008

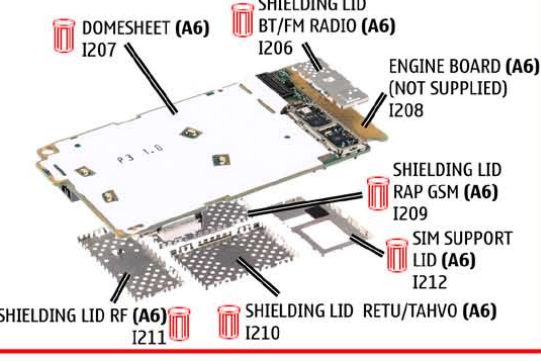
B-COVER (A2)  
I005 \*

MAGNET (A2)  
I006 \*

HINGE MODULE (A2)  
I004 \*

CAMERA/HINGE GROUNDING CLIP (A2)  
I007 \*

**A6=10A ENGINE MODULE ASSY (I206-I212)**



ENGINE BOARD (A6)  
(NOT SUPPLIED)  
I208

SHIELDING LID BT/FM RADIO (A6)  
I206

SHIELDING LID RF (A6)  
I211

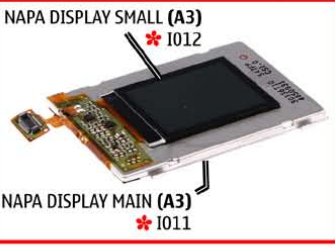
SHIELDING LID RETU/TAHV0 (A6)  
I210

SHIELDING LID RAP GSM (A6)  
I209

SIM SUPPORT LID (A6)  
I212

DOMESHEET (A6)  
I207

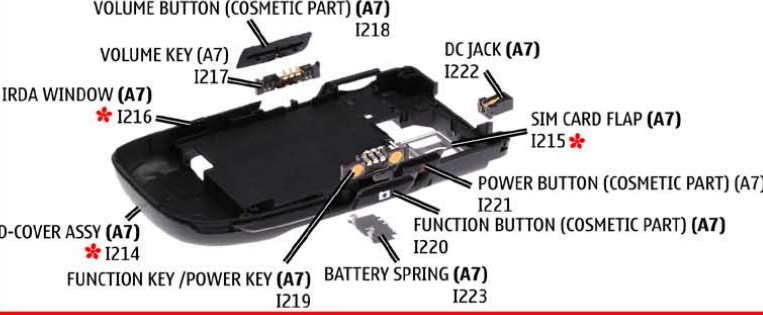
**A3=NAPA DISPLAY ASSY (I011-I012)**



NAPA DISPLAY SMALL (A3)  
I012 \*

NAPA DISPLAY MAIN (A3)  
I011 \*

**A7=D-COVER ASSY (I214-I223)**



D-COVER ASSY (A7)  
I214 \*

VOLUME BUTTON (COSMETIC PART) (A7)  
I218

VOLUME KEY (A7)  
I217

IRDA WINDOW (A7)  
I216 \*

DC JACK (A7)  
I222

SIM CARD FLAP (A7)  
I215 \*


POWER BUTTON (COSMETIC PART) (A7)  
I221

FUNCTION BUTTON (COSMETIC PART) (A7)  
I220

FUNCTION KEY /POWER KEY (A7)  
I219

BATTERY SPRING (A7)  
I223

**A5=A-COVER ASSY (I015-I017)**




A-COVER (A5)  
I015 \*

FRONT DISPLAY GASKET (A5)  
I017 \*

CAMERA GASKET (A5)  
I016 \*


**A9=ANTENNA MODULE ASSY (I226-I227)**



ANTENNA MODULE (A9)  
I226 \*


IHF SPEAKER (A9)  
I227 \*

**A10=E-COVER ASSY (I228-I229)**



E-COVER (A10)  
I228 \*

FLAP ASSY AND PLATE (A10)  
I229 \*



MICRO RUBBER FOAM  
I231

HINGE CAP RIGHT  
I102

C-COVER MIC RUBBER  
I201

RUBBER STOPPER LEFT  
I002

HINGE CAP LEFT  
I101

CUSHION MAIN B2B  
I230

GROUND PAD HINGE  
(stuck on C-COVER)  
I202

PUSH TO OPEN BUTTON  
I103

TYPE LABEL  
(LEVEL 3/4 ONLY)  
I213

RUBBER STOPPER RIGHT  
I003

SCREW M1.6 x 5.5 T6P  
I205


DISPLAY BEZEL  
I001


CAMERA ASSEMBLY  
I010

FLEX CABLE  
I104

SCREW M1.4 x 7 T5P  
I105

KEYMAT  
I204

 = These parts can not be reused after removed.

 = only available as assembly

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Service Manual 6131NFC RM-216

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## 4. GENERAL RECYCLING RECOMMENDATION

**NOKIA**

CMO Operations & Logistics  
Training and Vendor Development  
Multimedia Creation & Support

Confidential

13.11.2006

MGR

### General Recycling recommendation

**100% - only one Material**  
(Example components)

**METAL**

**PLASTIC**

**Mixed components**  
(Example components)

**ELECTRO-MIX**

**ELECTRO-MIX: Most components made of Glass, Ceramics, Glassfiberreinforced epoxy.**  
**ALL fractions containing any copper should be send to ELECTRO-MIX!!!**

**METAL - MIX**

**METAL-MIX: Most components made of Metal**

**BATTERY**

**BATTERY: Chemicals, Plastic and Ceramics**

**PLASTIC-MIX**

**PLASTIC-MIX: Most components made of Plastic**

Some of these options can be utilized directly and some need pretreatment as for instance dismantling, grinding, milling, etc.  
For sorting the waste into fractions for recycling, your recycler will offer you more specific information, but a **GENERAL RULE** is:  
**Electronic Equipment:** There are recyclers that can process this "multimaterial" for high recycling yields.  
**Metals:** Fractions containing metals must always be collected and sent for (metal) material recycling.  
**Plastics:** Pure plastics fractions (i.e. covers) can be sent for (plastics) materials recycling.  
**Mixed Plastic/Metals:** A metal fraction contaminated with plastics does not represent a problem for metal recycling/recovery whereas recycling/recovery of plastics is generally sensitive for contamination by other materials.

● ELECTRO ● METAL ● PLASTIC ● BATTERY

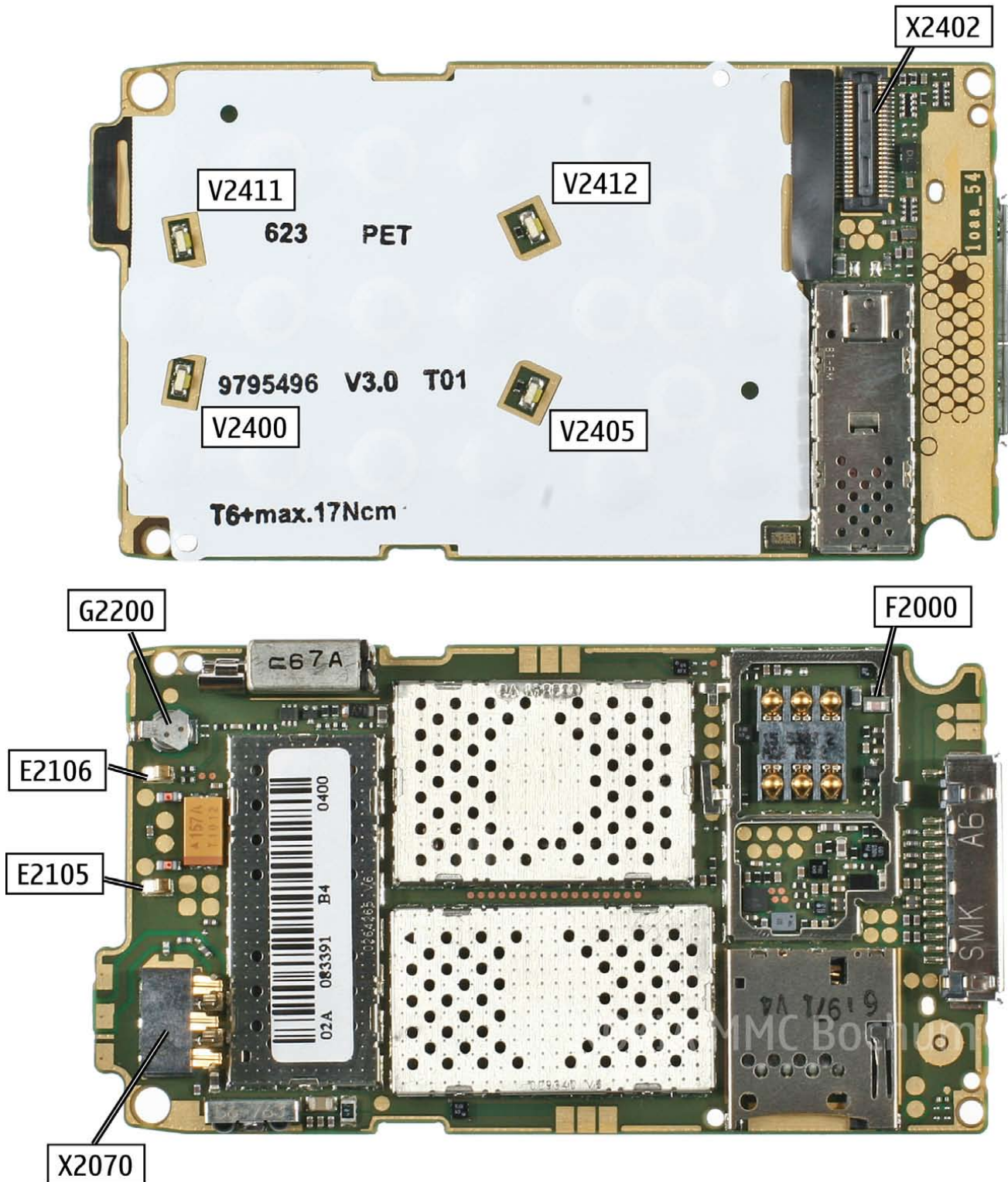
Ver. 3.0

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## 5. LEVEL 2 SOLDER COMPONENTS

### 6131NFC RM-216 Level 2 solder components




**Solder components only for LEVEL 2**



**6. SERVICE DEVICES**

	<p><b>FLS-4S incl. ACF-8, Driver and User Guide</b>                  Dongle and flash device incorporated into one package, developed specifically for POS use.</p>
	<p><b>ACF-8</b>                  Universal Power Supply is used to power FLS-4S.</p>
	<p><b>Travel Charger AC-4</b>                  Small and lightweight charger for fast charging of your phone battery.</p>
<p>BL-4C</p> 	<p><b>Internal Battery BL-4c</b>                  Inserted under the back cover, this Li-Ion battery provides power in a lightweight package.</p>
	<p><b>Headset HS-23</b>                  Small and lightweight stereo headset with handsfree call handling, volume control, push to talk support, and comfortable earpieces for listening to the FM radio or music player.</p>
<p>RJ-92</p> 	<p><b>RJ-92</b>                  Soldering Jig</p>
	<p><b>CA-53</b>                  Service Cable to connect the PC with the Pop-Port™ connector.</p>

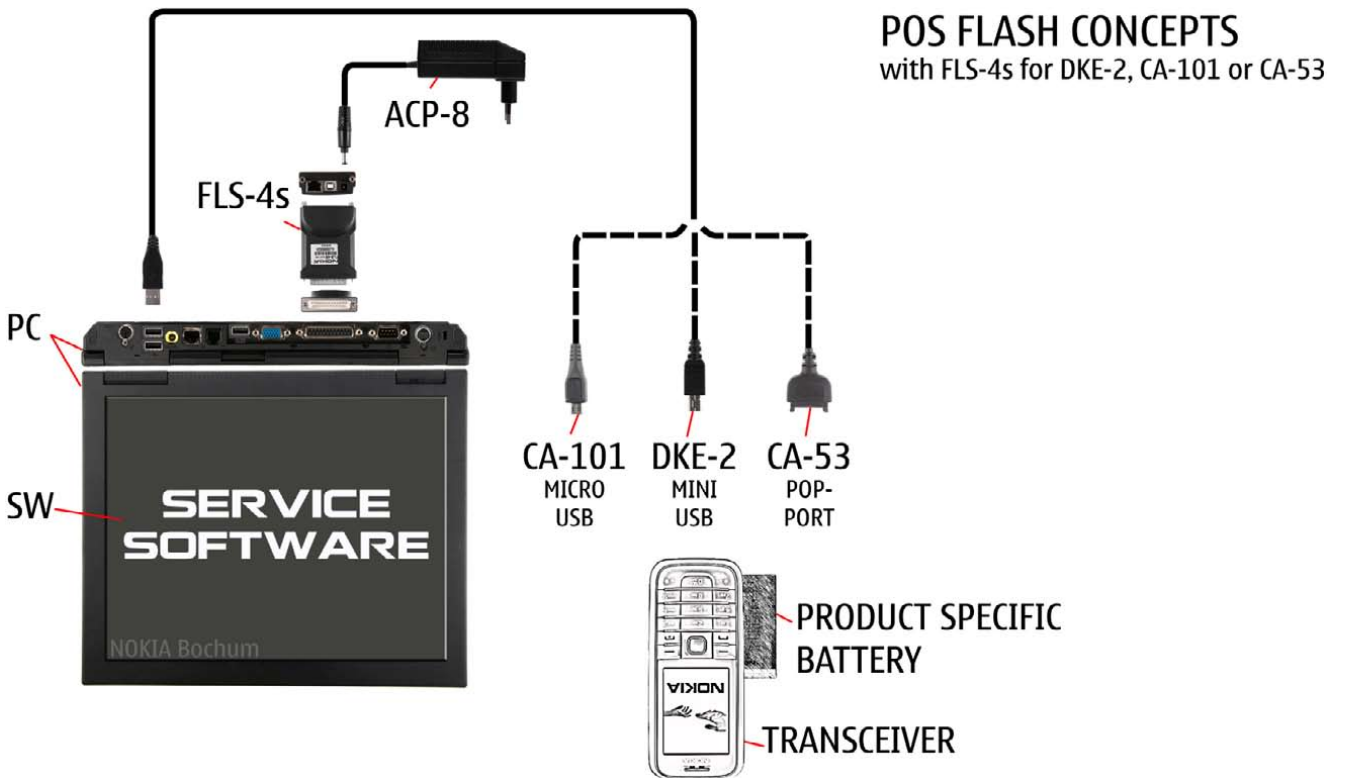


<p>SS-121</p> 	<p><b>SS-121</b>                  RFID Tag is used to test the Near Field Communication (NFC)</p>
	<p><b>Lead-free Solder Wire</b>                  Mandatory for lead-free products (Level 2 only).</p>
	<p><b>0772040 NMP Standard Toolkit</b></p> <ul style="list-style-type: none"> <li>• NOKIA opening tool SRT-6 NOKIA No. 0770431</li> <li>• Tonichi torque driver NOKIA No. 6901525</li> <li>• <a href="#">Hoya</a> micro Fibre cloth MX304</li> <li>• <a href="#">Dastex</a> gloves S, M, XL</li> <li>• <a href="#">Artilux</a> goggles AH166</li> <li>• <a href="#">Wera</a> bit T5 867/4TX 5x50</li> <li>• Wera 867/4 6IP; 50mm (Torx 6 PLUS®)</li> <li>• Wera bit T6 867/4TX 6x50</li> <li>• Wera 867/1 5IP; 25mm (Torx 5 PLUS®)</li> <li>• Wera bit T6 PLUS® 867/4TX 6IP</li> <li>• <a href="#">Facom</a> side cutter 416E</li> <li>• Facom T5 driver SP.14032</li> <li>• Facom T6 driver SP.14033</li> <li>• Facom slot screwdriver AEF. 2x35.E</li> <li>• <a href="#">Wetec</a> tweezers 7abb SA-ESD</li> <li>• Wetec tweezers 22 SA-ESD</li> <li>• Wetec tweezers 13 SA-SMD ESD</li> <li>• Wetec tweezers PSF SA-ESD</li> <li>• Wetec ESD brush E1211</li> <li>• <a href="#">Kaiser</a> Fototechnik airbrush 6315</li> <li>• Wetec dental tool DEM83266/0</li> <li>• <a href="#">RS</a> Components Scissors 323-5732</li> </ul>

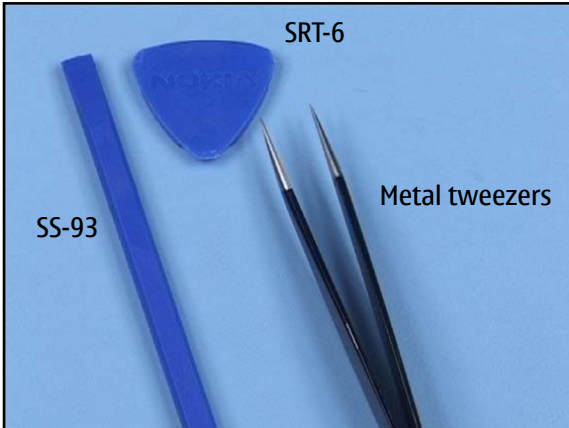
## 7. SW-UPDATE

### Flash Concept – (Point of Sales)

To use FLS-4S Flash Dongle you have to follow the user guide inside the sales package. Please check always for the latest version of flash software, which is available on [NOKIA Online](#). Use the CA-53 cable.



## 8. UPPER BLOCK DISASSEMBLY



1. Needed tools.



2. Always protect all windows with protective film against dust and scratches.



3. Remove the battery, if it is still inside.



4. Open the phone and stand it edgewise on the workbench.



5. Carefully lift up the lower side of the DISPLAY BEZEL with the dental pick...



6. ... and then run the SRT-6 along it to release it.



7. Remove both RUBBER STOPPERS with tweezers.



8. Protect the inner side of the lower block with film.



9. Gently unlock the A-COVER at the back.



10. Now, run the SRT-6 along the joint as shown to release the concealed snaps.



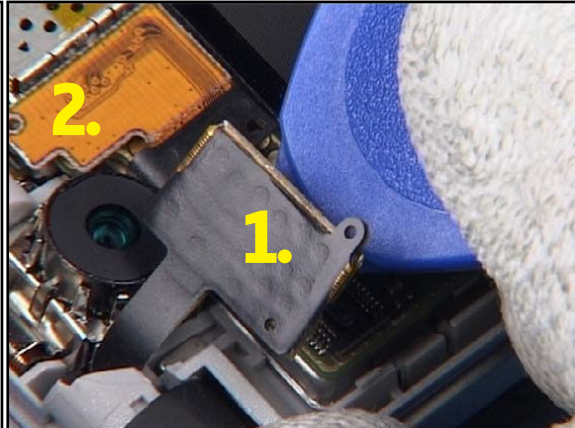
11. Continue this procedure down the sides of the A-Cover.



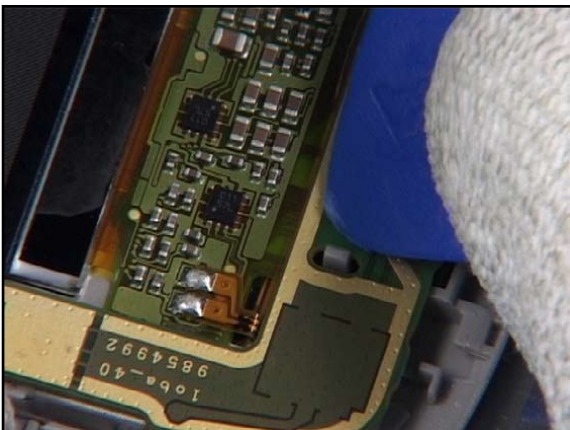
12. You can now remove the A-Cover by sliding it and lifting it off as shown.



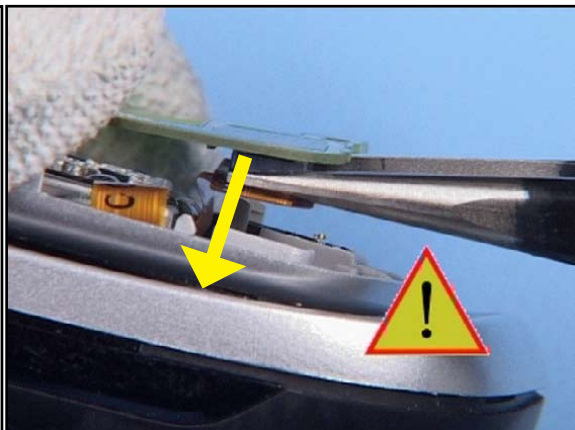
13. Take out the FRONT DISPLAY GASKET.



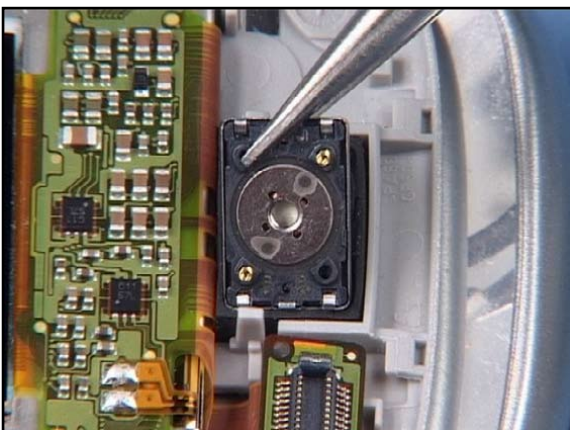
14. Carefully open the two flex connectors with the SRT-6.



15. Release the two catches holding the LCD PWB in place.



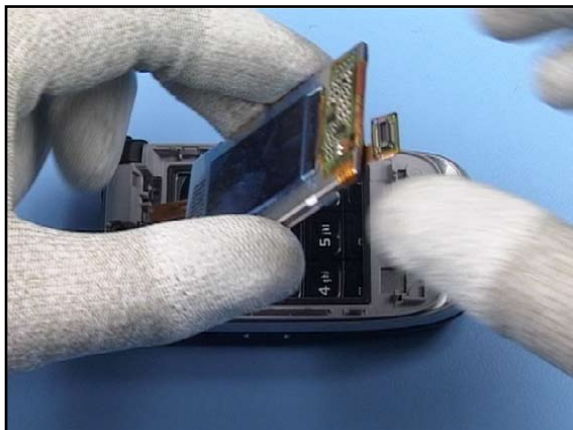
16. Raise the board a little and carefully open the flex connector.



17. Ease out the Earpiece and remove it.



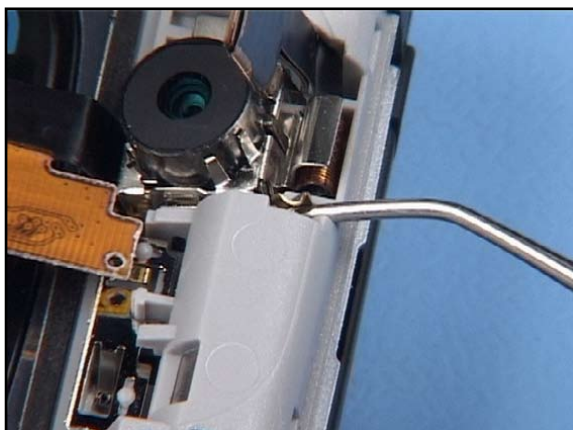
18. Unlock the four clips with holding the NAPA DISPLAY MAIN.



19. Now, remove the NAPA DISPLAY MAIN and protect it with film.



20. Remove the EARPIECE GASKET with tweezers.

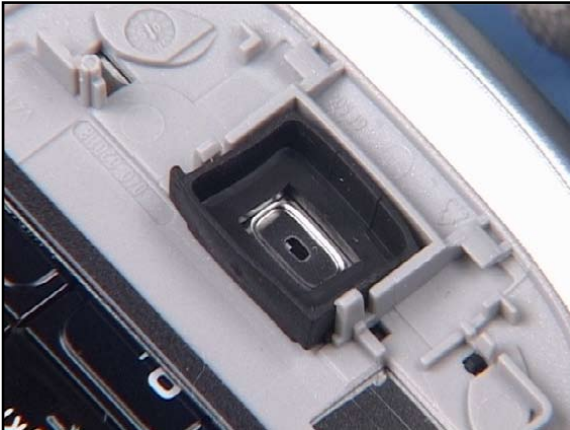


21. Slip the dental tool between the Camera and the B-COVER to unlock the CAMERA ASSEMBLY.

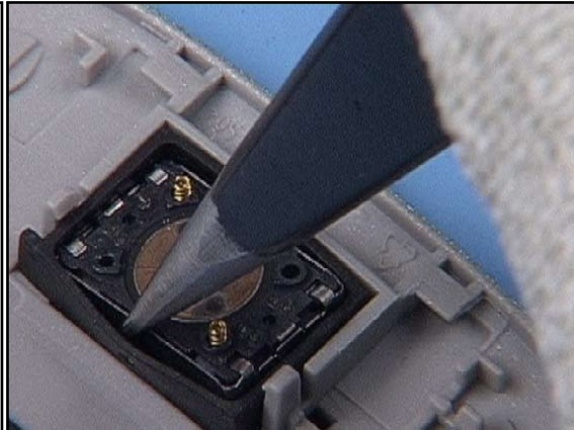


22. The disassembly procedure is now complete.

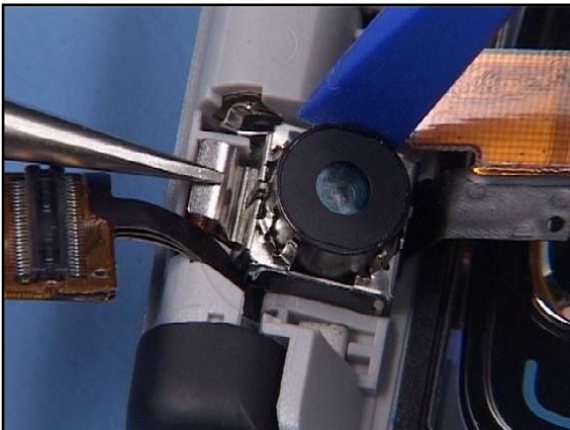
## 9. UPPER BLOCK ASSEMBLY



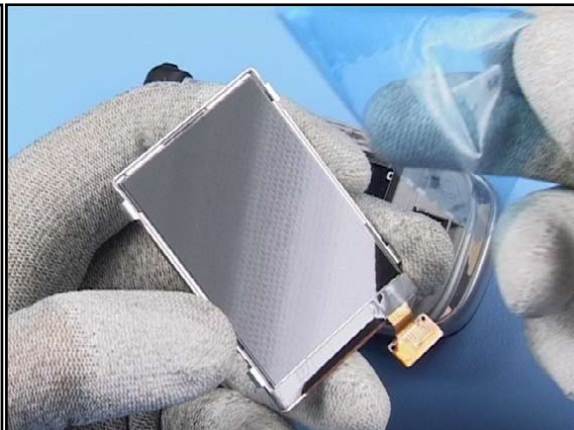
1. Insert the EARPIECE GASKET, noting that there is only one correct position.



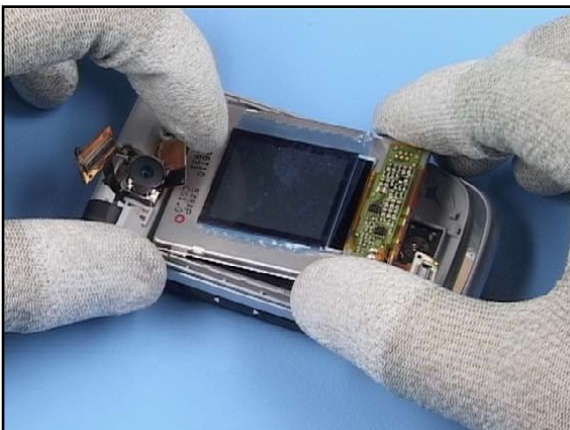
2. Fit the EARPIECE evenly into the Gasket.



3. Place the CAMERA ASSEMBLY in its guides in the B-COVER, taking care not to damage the adjacent flex connector.



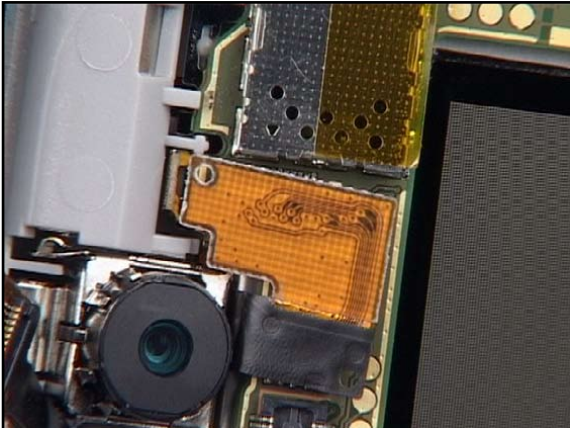
4. Remove the protective film.



5. Place the NAPA DISPLAY MAIN in the B-Cover guides.



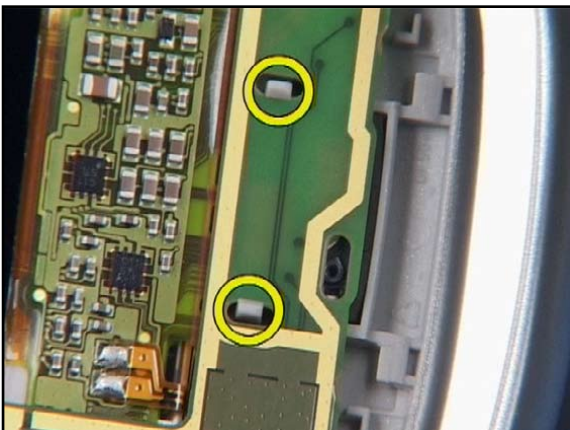
6. Be sure to lock all four clips of the display.



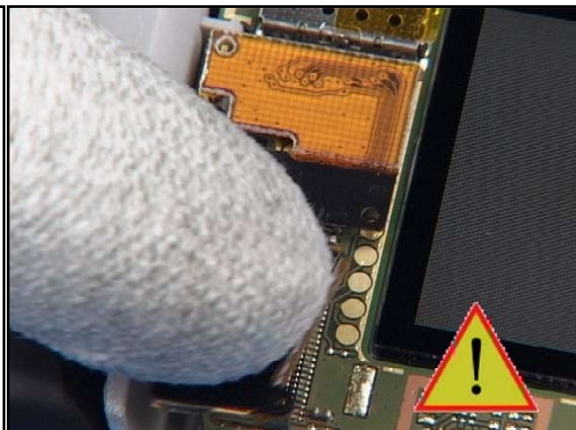
7. Locate the PCD PWB over the Napa display, avoiding damage to the flex connectors.



8. Ensure that the LCD connector is properly locked.



9. Check that the snaps are closed.



10. Carefully close the two flex connectors, avoiding contact with the Camera.



11. Put the FRONT DISPLAY GASKET to the A-COVER.



12. Slide the A-Cover on to its lower guides.





13. Then press down on it evenly to lock the snaps underneath.



14. Check that no gaps remain.



15. Insert the two RUBBER STOPPERS.

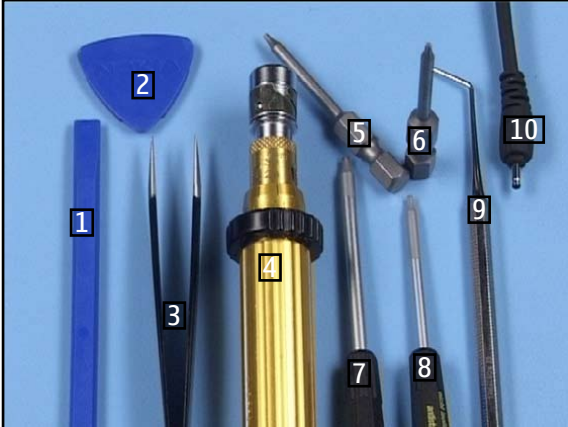


16. Smooth a new DISPLAY BEZEL into place, as shown.



17. The assembly procedure is now complete.

## 10.LOWER BLOCK DISASSEMBLY



1. Needed tools: 1. SS-93, 2. SRT-6, Metal tweezers, 4. Torque driver, 5. Torx plus size 5 bit, 6. Torx plus size 6 bit, 7. Torx plus driver size 6, 8. Torx plus driver size 5, 9. Dental pick and 10. DC-Plug.



2. Note that all windows are covered with protection film.



3. Unlock and remove the E-COVER.



4. Check that there is no SIM or SD card still inserted before continuing.



5. Carefully pry open the KEYMAT with SRT-6 at key 3.



6. Undo both screws in the order shown and discard them.



7. These screws are coated with locking compound and cannot be reused.



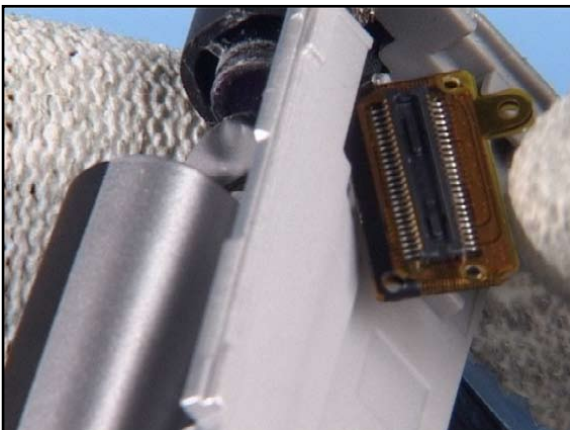
8. Hold the assembly as shown and locate the 2 holes in the D-COVER.



9. Use the dental pick to unlock the clips at both sides.



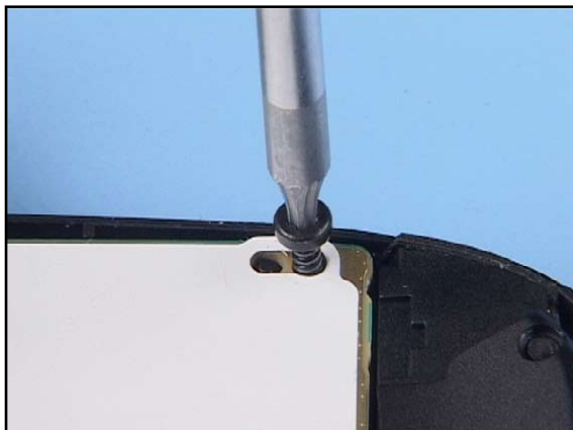
10. Use the SS-93 to release the C-COVER from the Hinge.



11. Carefully separate the C-COVER from the Upper Block and slot the flex connector through the C-COVER.



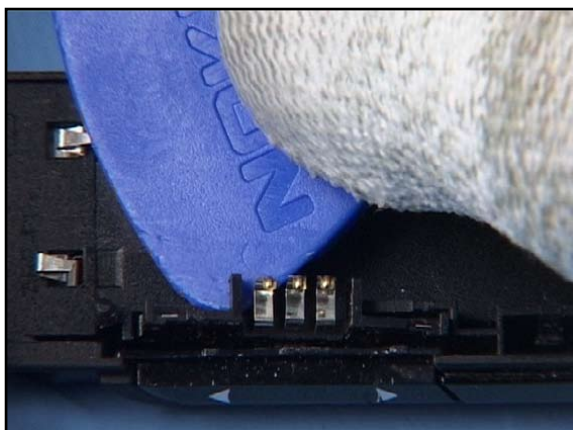
12. Remove the HINGE CAP RIGHT and then the Push to Open Button.



13. Undo the Torx Plus size 6 screw shown.



14. Lift out the PWB.



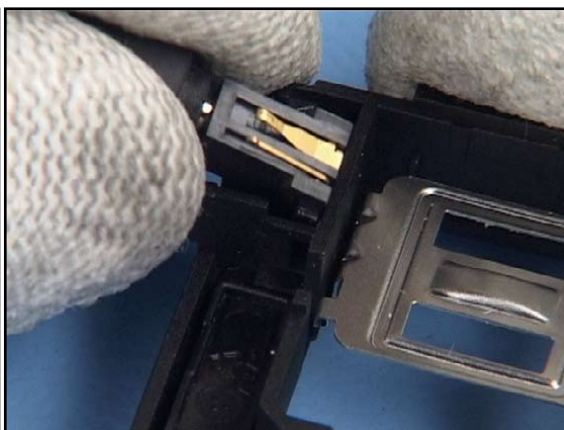
15. Loosen the Keydomes on both sides with the SRT-6...



16. ... and remove them with tweezers.



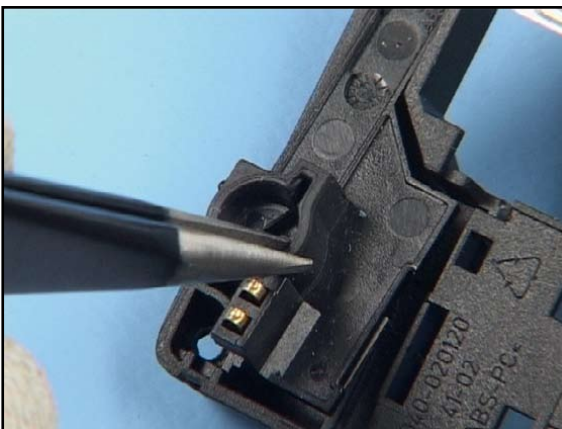
17. Release all buttons with the SRT-6 as shown.



18. Remove the DC JACK with the DC Plug.



19. Ease out the Microphone with the dental pick.



20. Remove the BLUETOOTH ANTENNA with tweezers.



21. The Antenna Assembly can be released easily with the SRT-6.

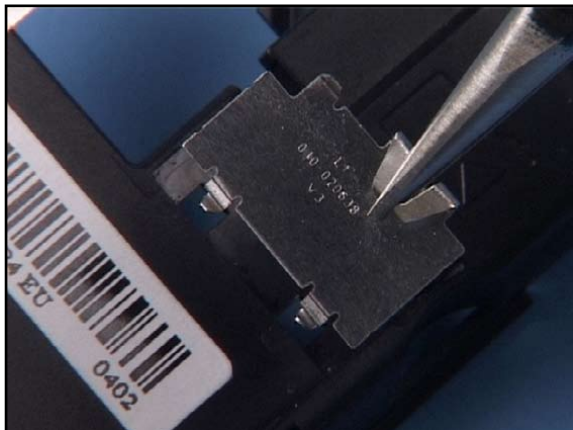


22. Use the tweezers to unlock the BATTERY SPRING.



23. The disassembly procedure is now complete.

## 11.LOWER BLOCK ASSEMBLY



1. Insert the BATTERY SPRING and click it into its place.



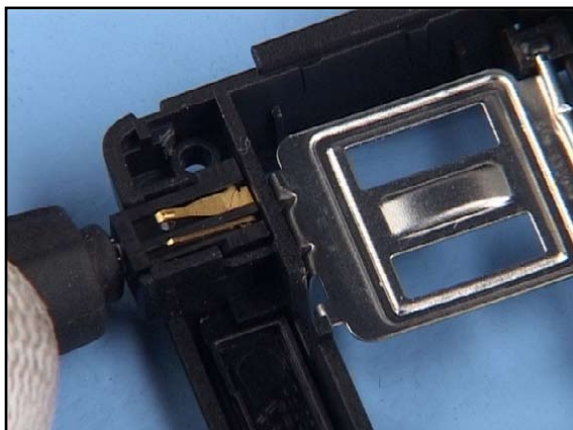
2. Insert the ANTENNA MODULE into its compartment.



3. Place the BLUETOOTH ANTENNA.



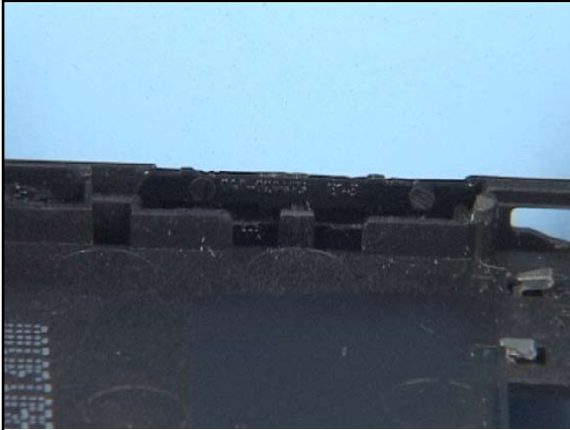
4. Carefully insert the MICROPHONE into its compartment.



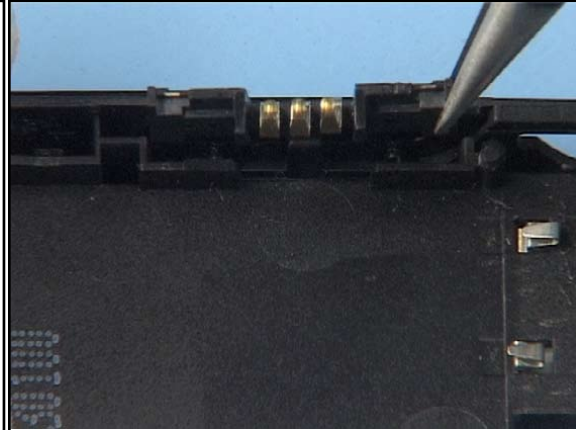
5. Use the DC Plug to reassemble the DC JACK.



6. Insert the Buttons and lock them with your fingers.



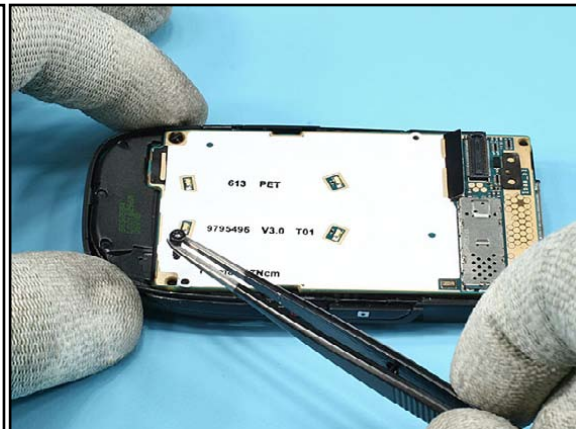
7. Check the correct positioning of the keys before continuing.



8. Now insert the VOLUME KEY and on the opposite side the FUNCTION/POWER KEY. Take special care not to bend the spring contacts.



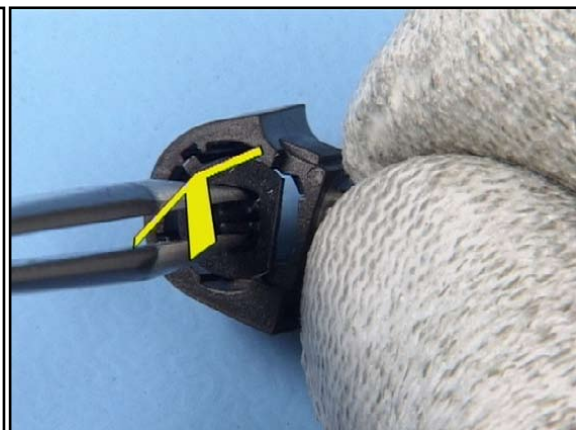
9. Place the ENGINE BOARD into the D-COVER.



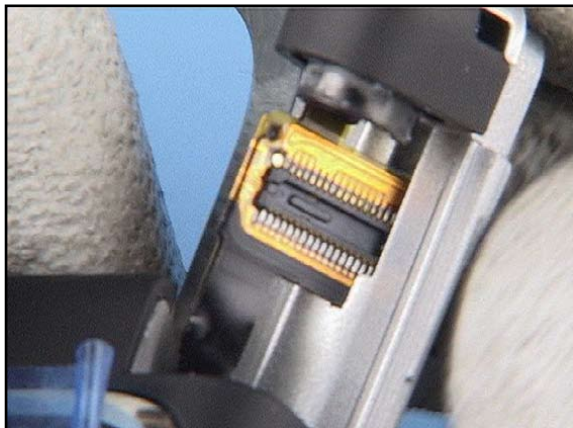
10. Insert the board screw with tweezers.



11. Set the correct torque and tighten in.



12. Place the Push to Open Button into the HINGE CAP RIGHT.



13. Slot the flex connector through the D-COVER with caution.



14. Be sure not to squash the FLEX FOIL when assembling the HINGE.



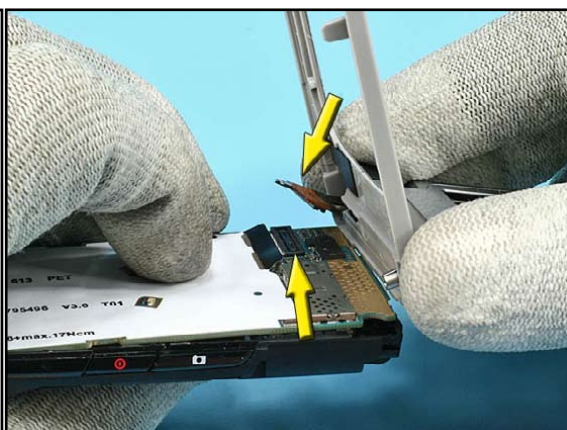
15. Only one position is possible for the HINGE CAP RIGHT assembly.



16. Squeeze together the HINGE CAP RIGHT and the new C-COVER. Ensure both hinges are pressed into C-COVER correctly.



17. Position the C-COVER SERVICE ASSY in 90 degrees angle to the Upper BLOCK.

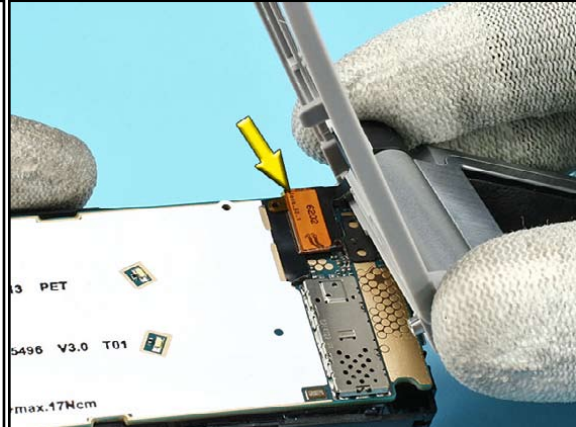


18. Move the flex connector over the connector on the ENGINE MODULE.

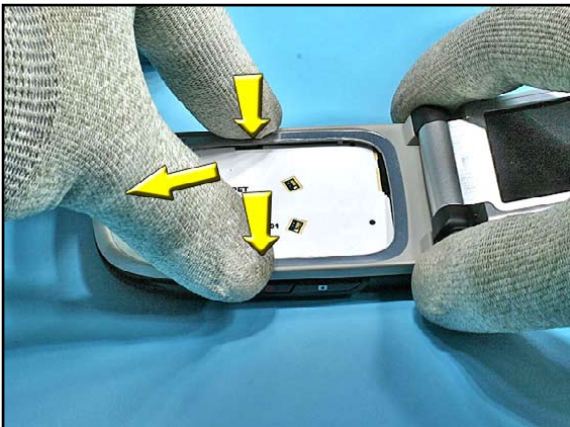




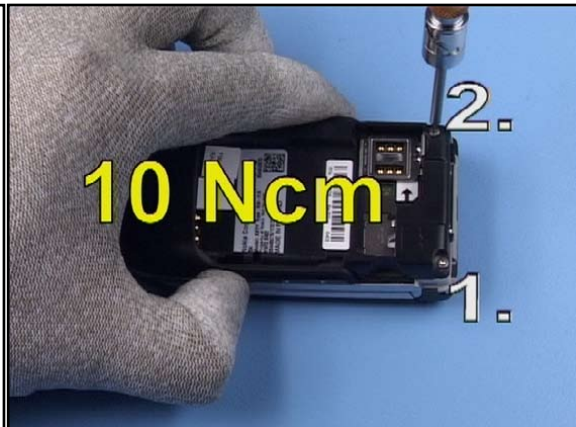
19. Press onto the flex connector. A “click” noise can be heard when the connector lock properly.



20. Check the flex connector if it is locked correctly.



21. Snap in the C-COVER SERVICE ASSY into the D-COVER ASSY at the shown position. First move it down-left, to lock the top hooks and then lock the middle hooks.



22. Close the unit, turn it upside-down and fasten the two screws in the order shown. Check C-D cover for gaps (especially in the antenna area), to ensure that it is properly closed.



23. Mount the E-COVER and close the Flap.



24. Finally, assemble the KEYMAT, starting from the lower side.






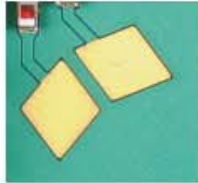












25. Make sure that it fits correctly.

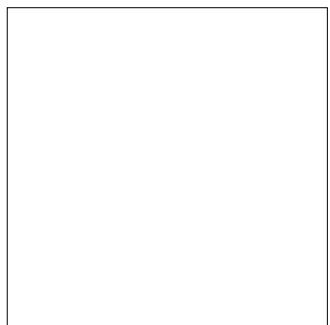
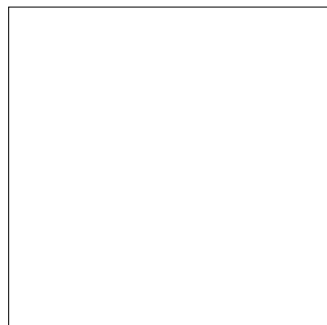
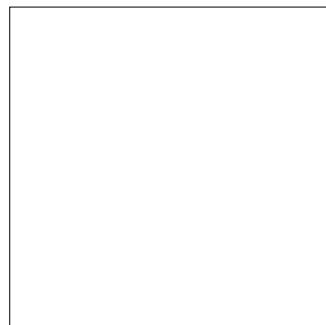
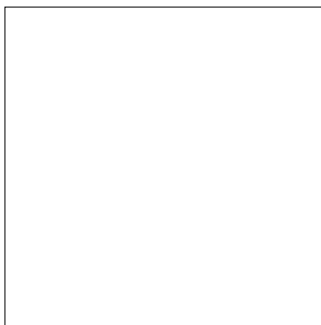
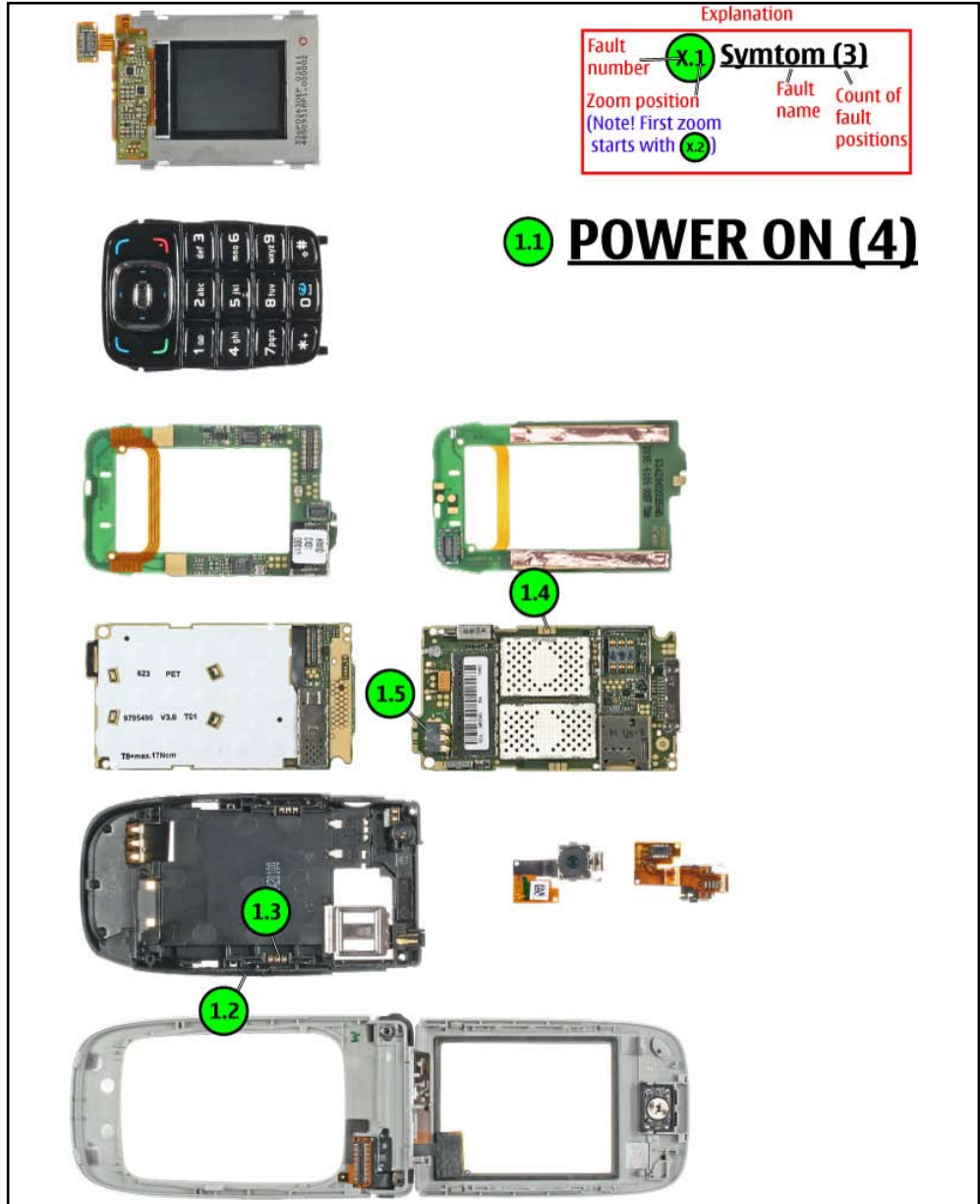
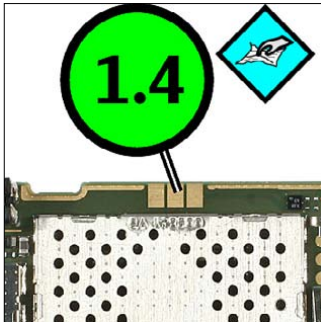
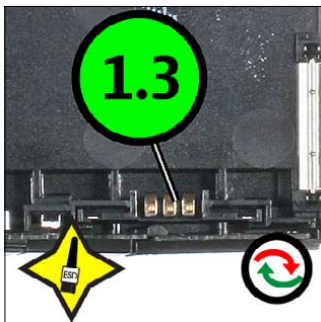
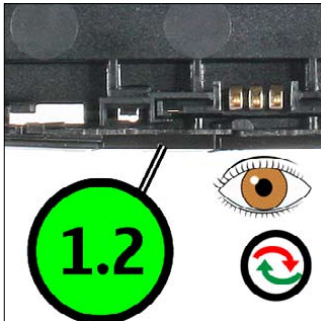


26. Check all windows for cleanliness.

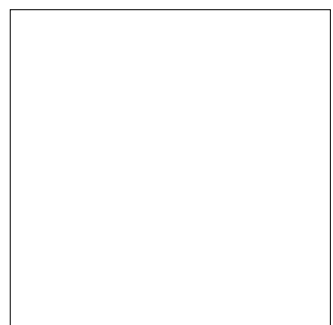
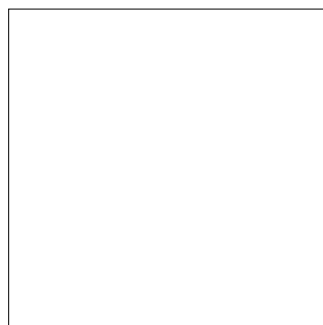
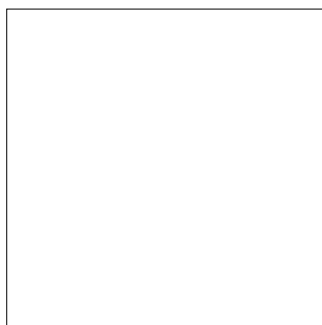
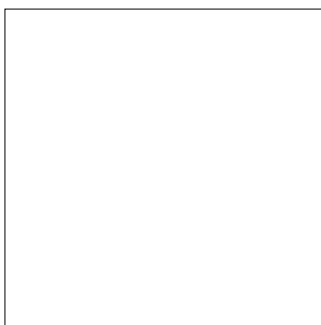
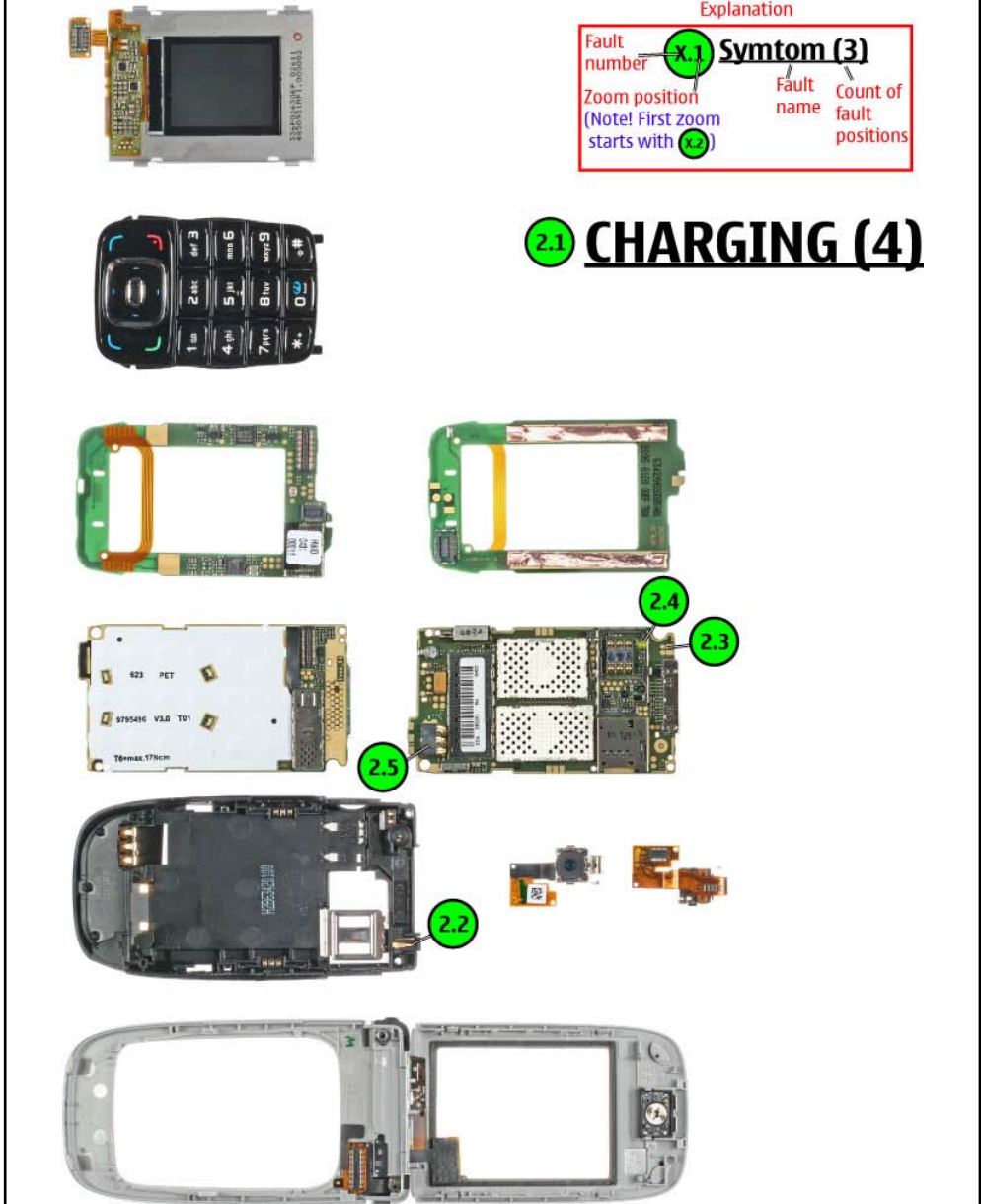
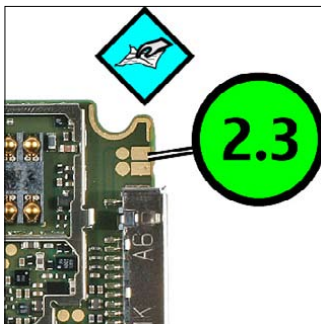
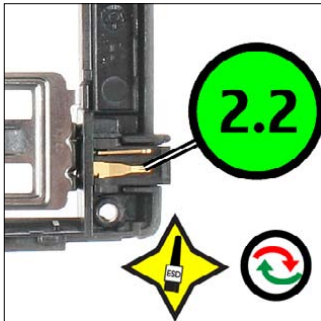
**12.LEGEND FOR QUICK TROUBLESHOOTER**

Legend for Quick Trouble Shooter	
This legend is valid for all parts of the Quick Trouble Shooter	
Follow the steps until the problem is solved. If this doesn't help, you are not authorized to go forward.	
	Check the mechanical condition of the component (bent, broken or missing).
	Only marked components can be replaced. If additionally " <b>=CHANGE ASSY</b> " appears, then change the whole assembly (e.g. A4=D-COVER ASSEMBLY).
	<b>Cloth usage:</b> Check pads or contacts for optical and mechanical condition particularly regarding to corrosion. Clean it if necessary.    
	Measure component for electrical functionality and change, if needed. (Level 2 only)  
	<b>ESD Brush usage:</b> Check contacts for optical and mechanical condition particularly regarding to corrosion. Clean it if necessary.    
	<p>Explanation</p> <div style="border: 1px solid red; padding: 5px; display: inline-block;"> <p>Fault number <b>X.1</b> <b>Symtom (3)</b></p> <p>Zoom position (Note! First zoom starts with <b>X.2</b>)</p> <p>Fault name</p> <p>Count of fault positions</p> </div>

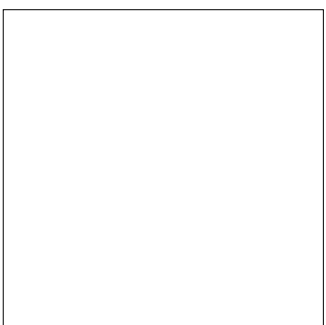
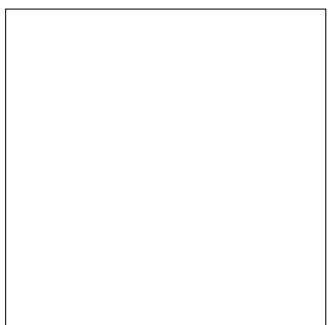
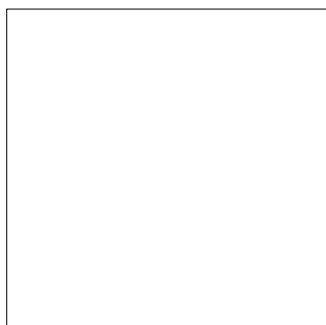
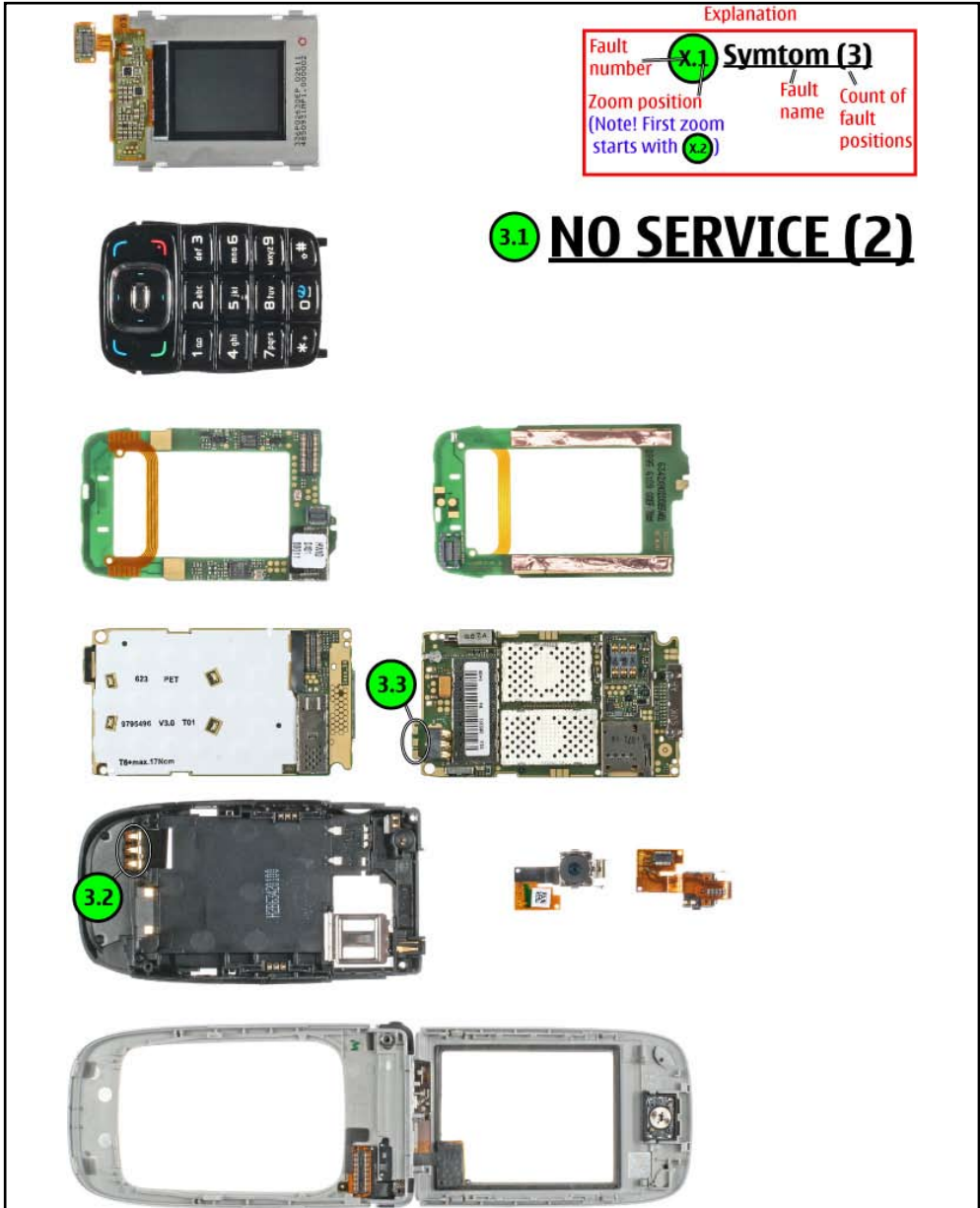
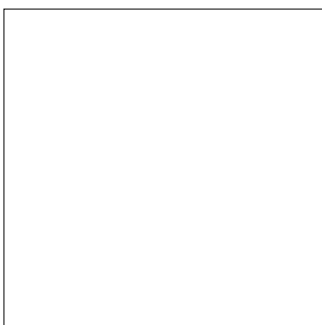
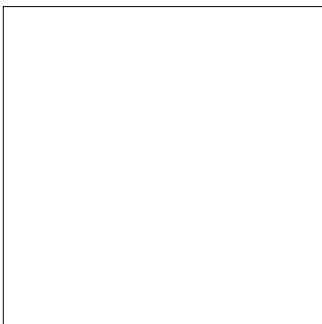
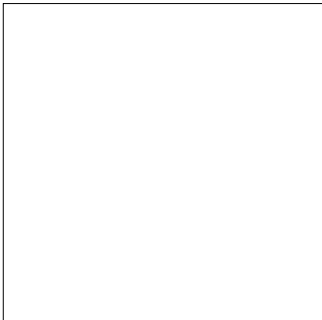
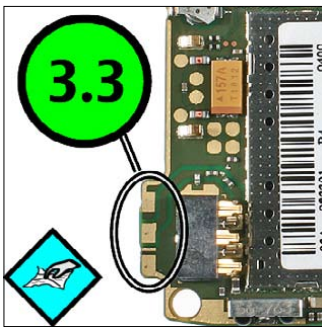
**13. QUICK TROUBLESHOOTER - POWER ON**



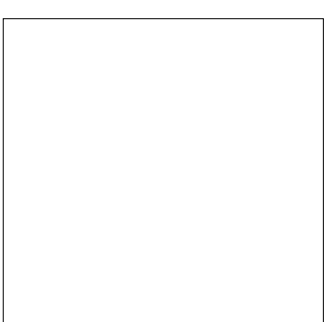
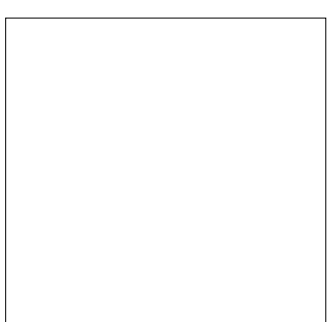
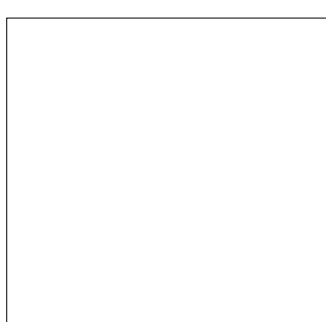
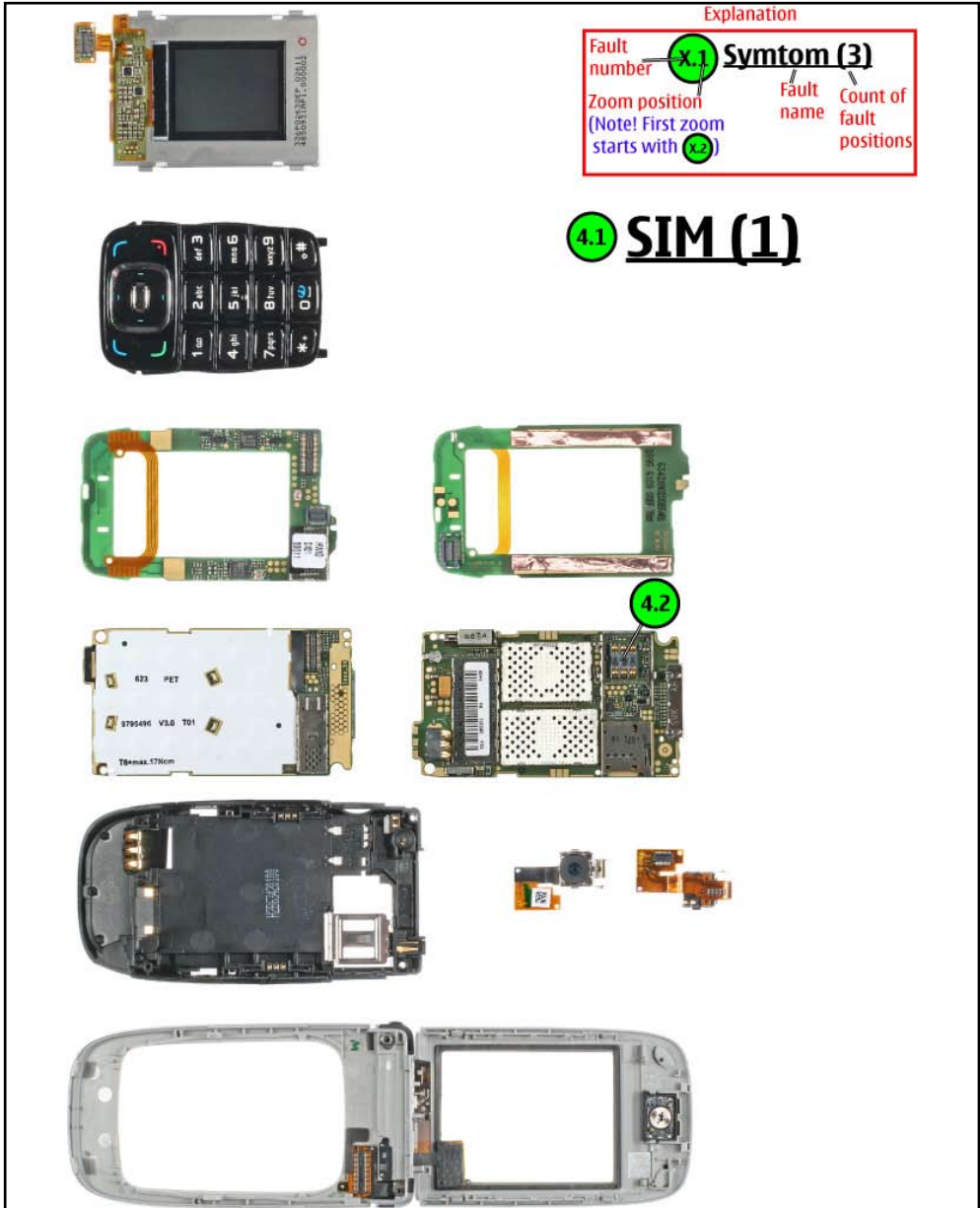
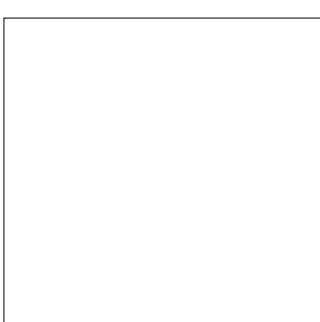
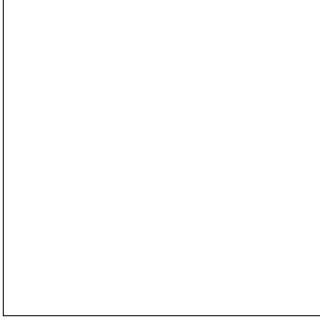
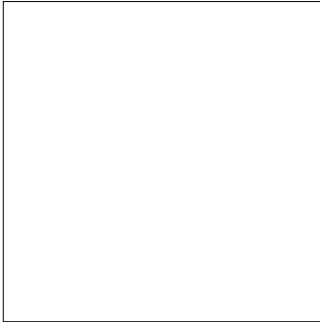
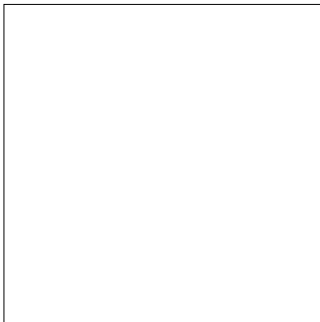
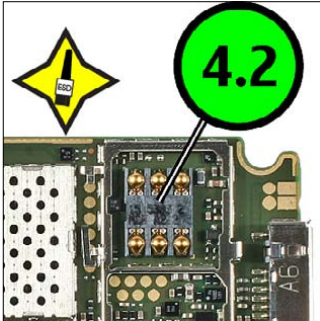
## 14. QUICK TROUBLESHOOTER - CHARGING



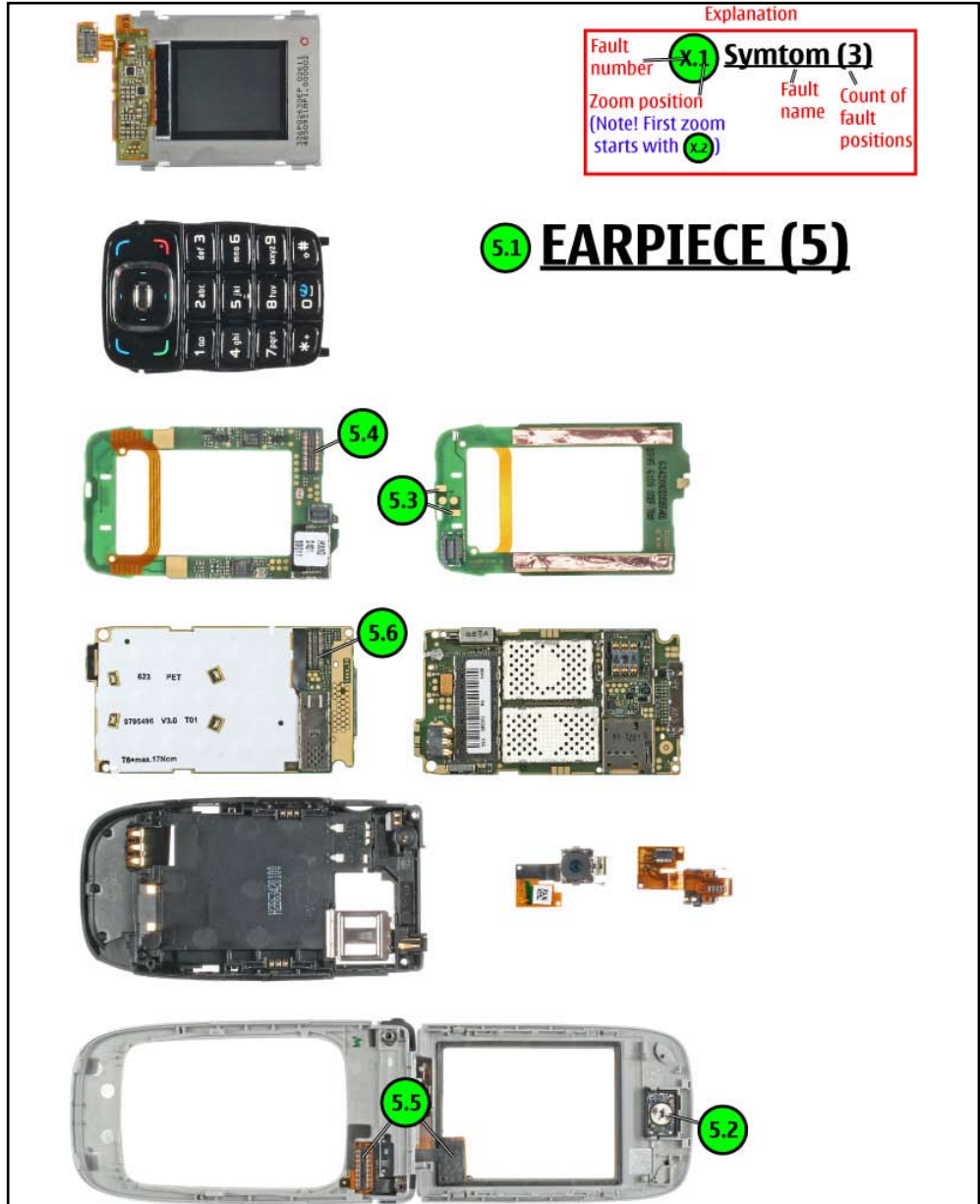
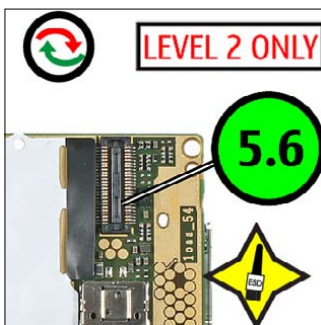
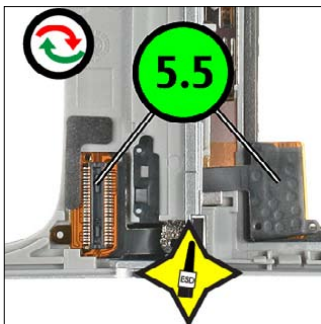
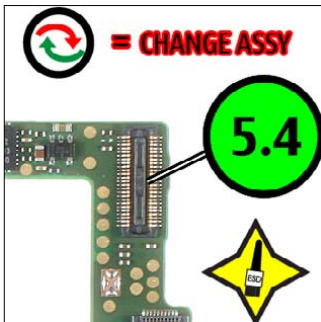
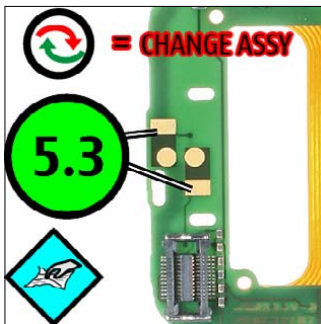
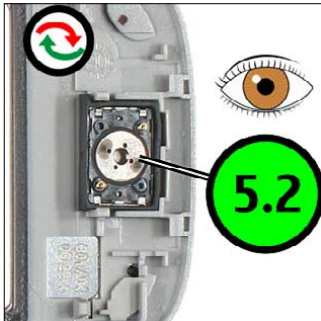
**15. QUICK TROUBLESHOOTER - NO SERVICE**



**16. QUICK TROUBLESHOOTER - SIM**

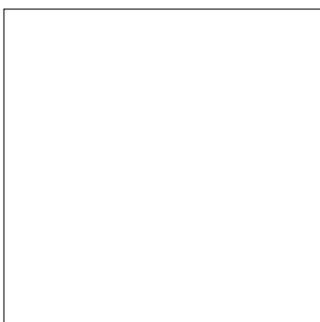
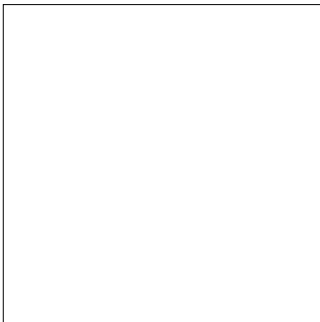
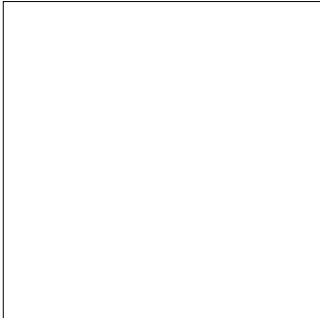
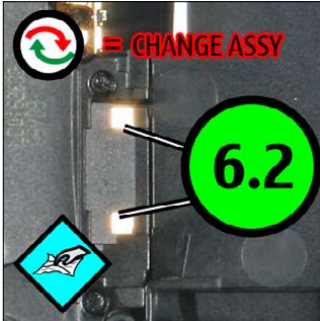


**17. QUICK TROUBLESHOOTER - EARPIECE**





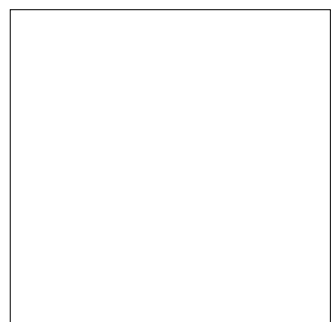
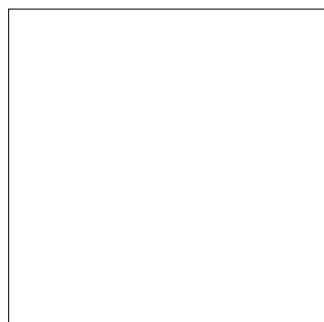
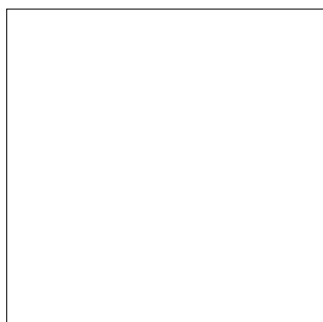
**18. QUICK TROUBLESHOOTER - IHF SPEAKER**



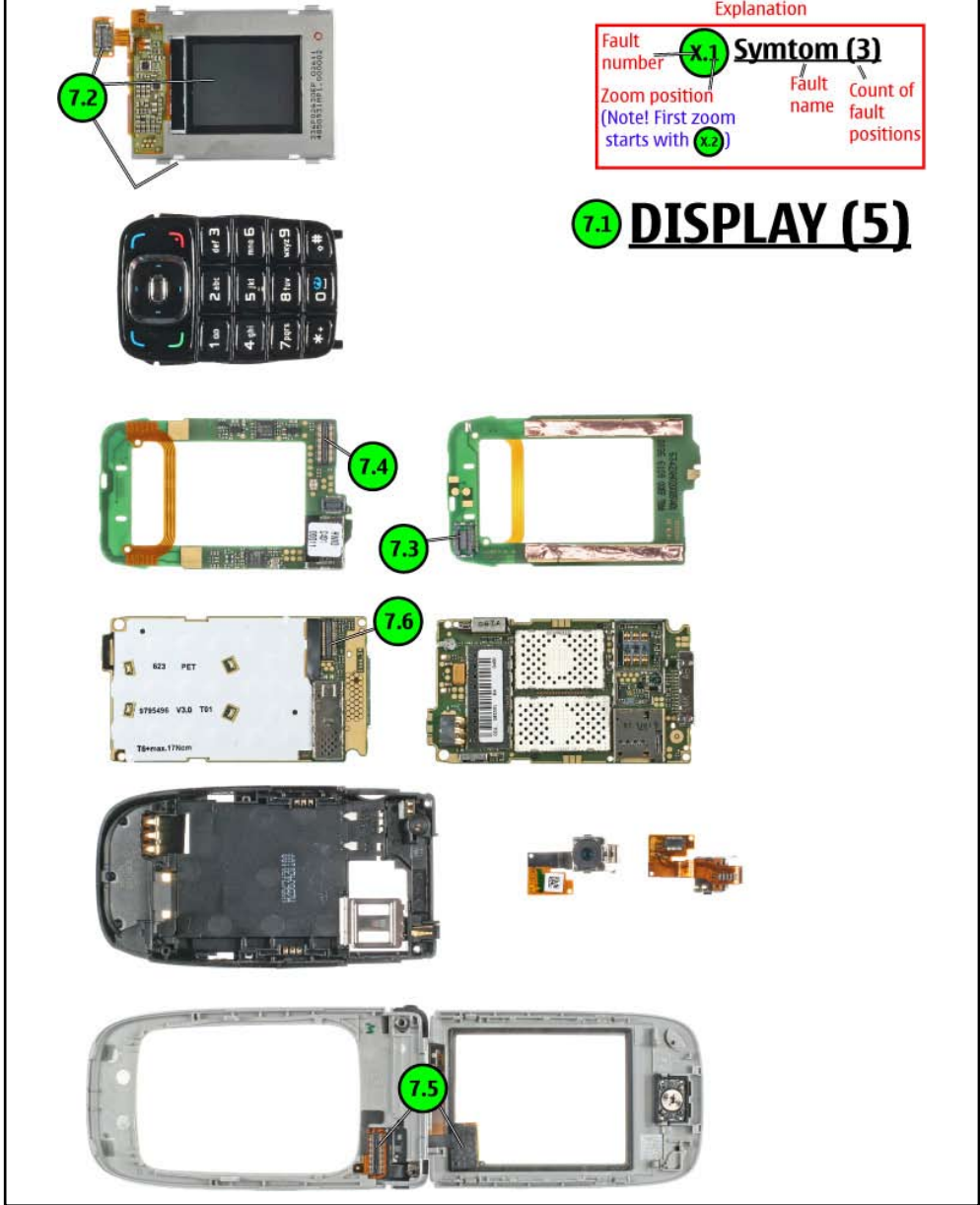
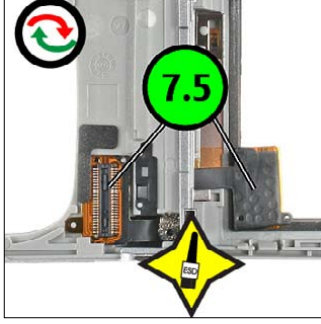
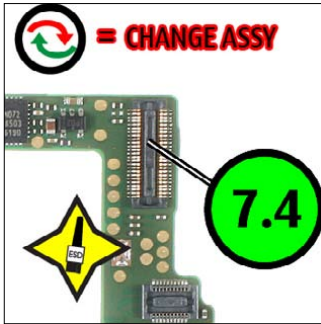
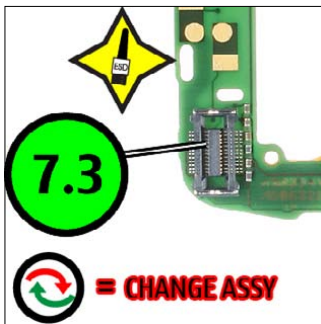
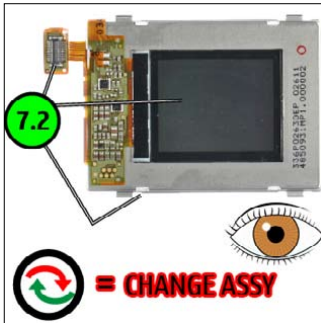
Explanation

Fault number	X.1	<b>Symtom (3)</b>	Fault name	Count of fault positions
Zoom position (Note! First zoom starts with X2)	X2			

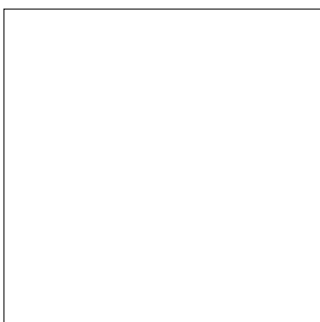
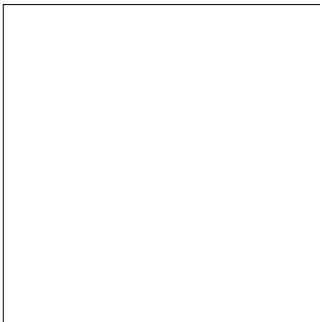
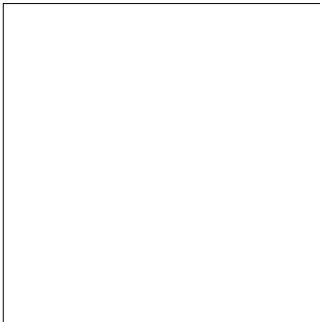
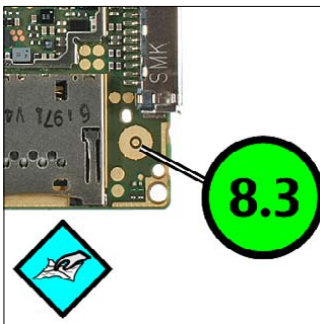
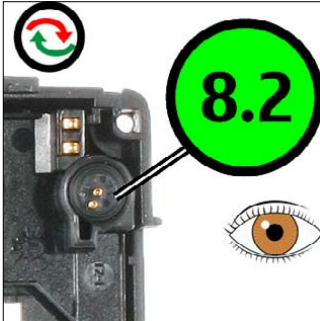
**6.1 IHF SPEAKER (2)**



**19. QUICK TROUBLESHOOTER - DISPLAY**



**20.QUICK TROUBLESHOOTER - MICROPHONE**



Explanation

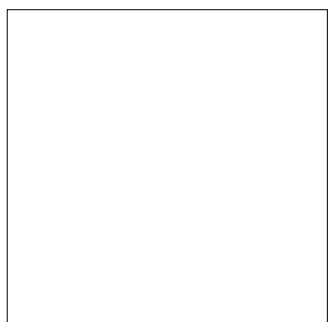
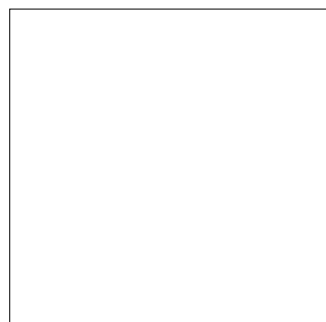
Fault number **X.1** **Symtom (3)**

Zoom position (Note! First zoom starts with **X.2**)

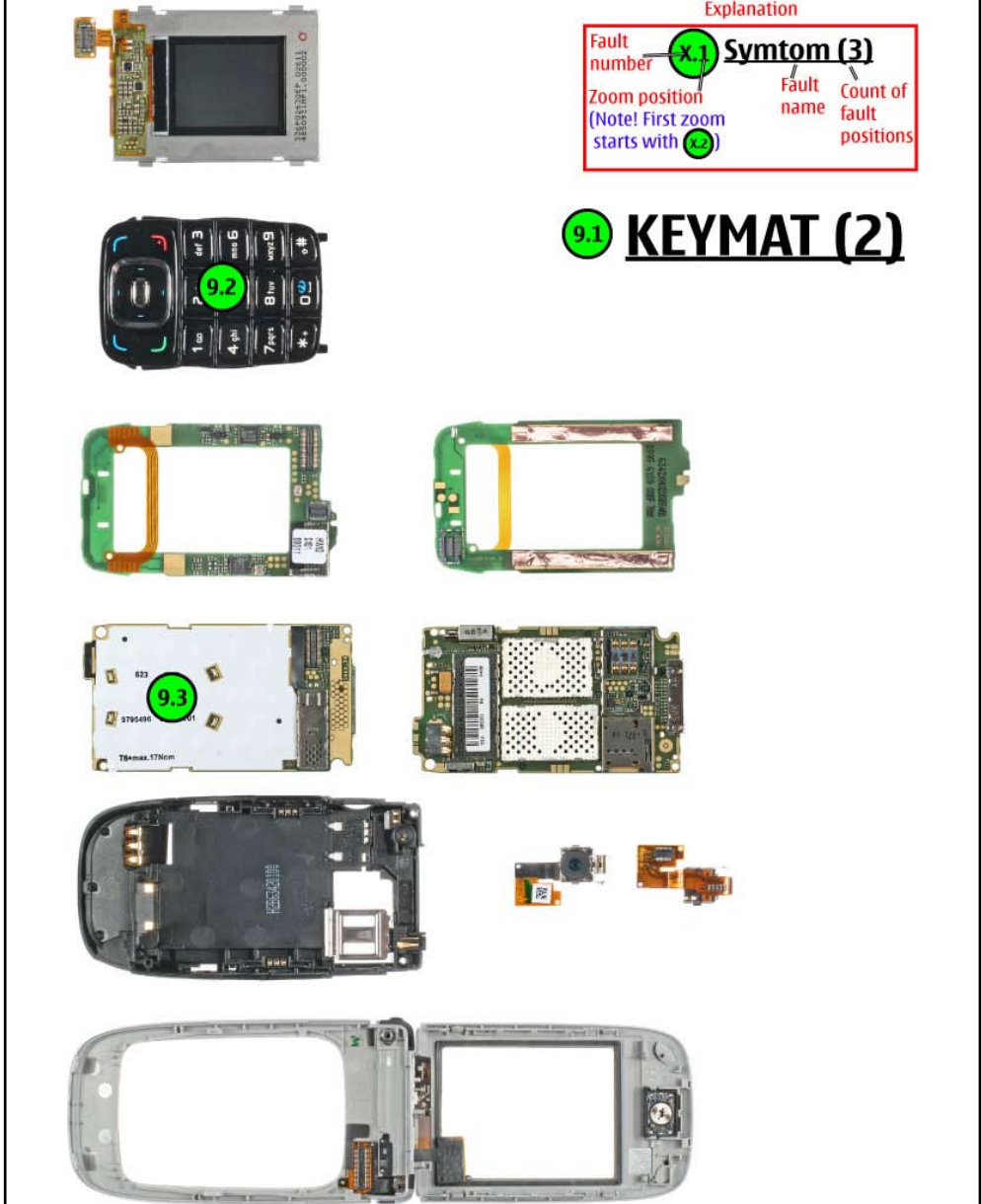
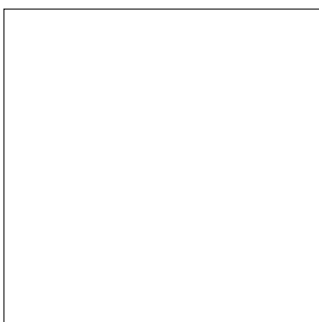
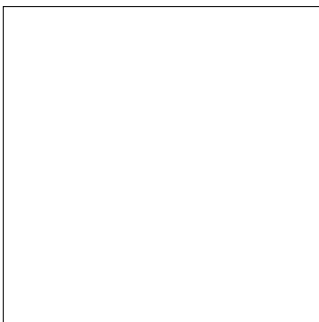
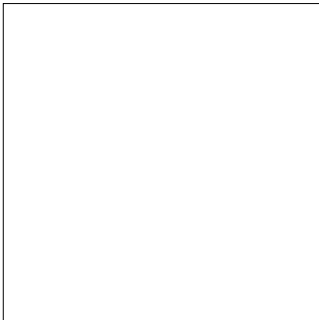
Fault name

Count of fault positions

**8.1** **MICROPHONE (2)**

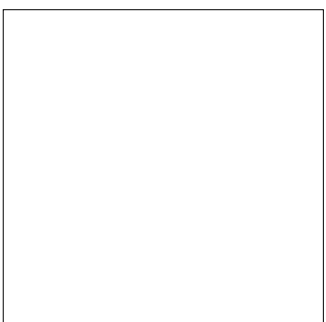
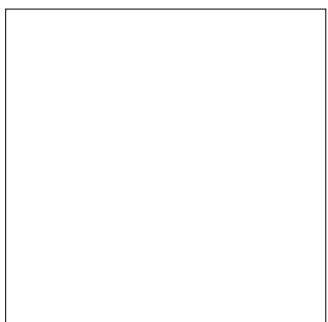
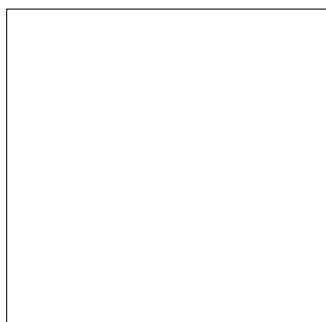


## 21. QUICK TROUBLESHOOTER - KEYMAT

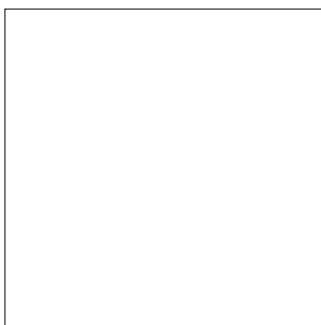
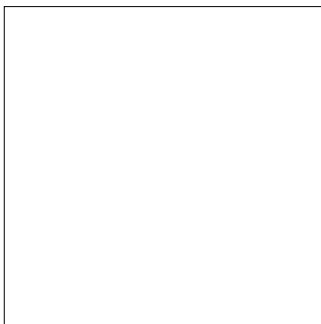
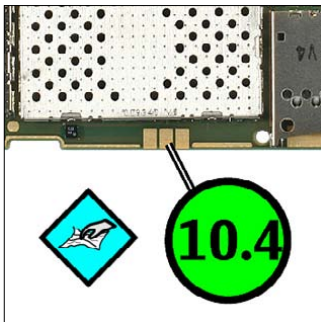
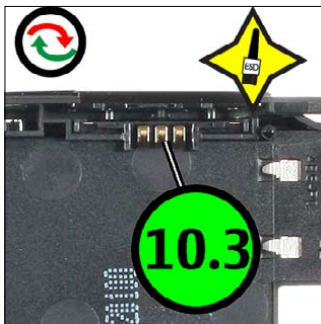
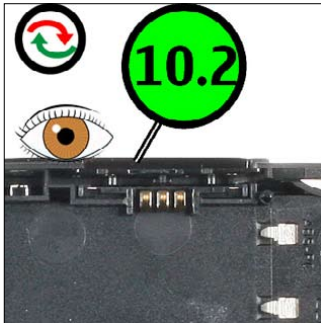


Explanation  
Fault number **X.1** **Symtom (3)**  
Zoom position (Note! First zoom starts with **X.2**)  
Fault name  
Count of fault positions

**9.1** **KEYMAT (2)**



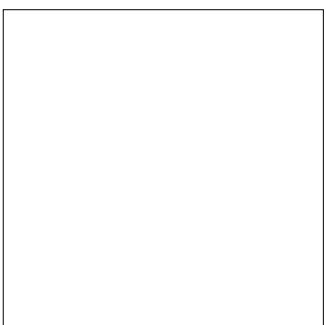
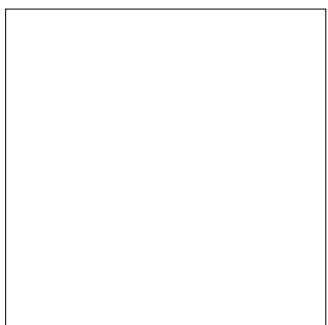
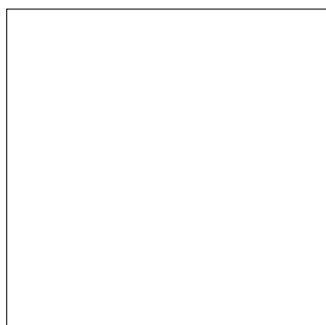
## 22. QUICK TROUBLESHOOTER - VOLUME KEY



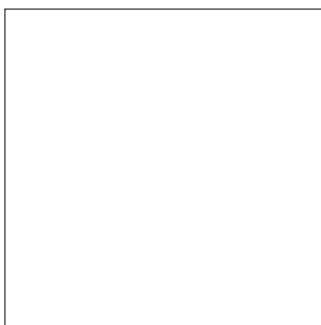
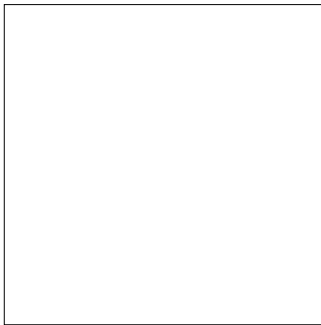
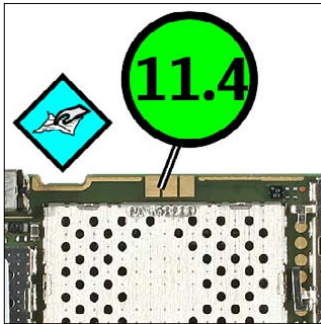
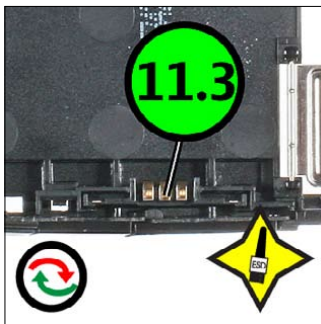
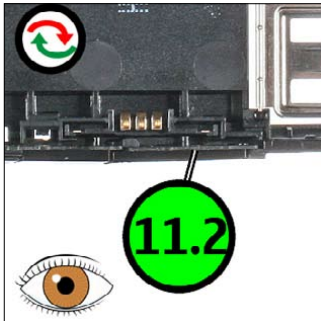
Explanation

Fault number	X.1	<b>Symtom (3)</b>	Fault name	Count of fault positions
Zoom position (Note! First zoom starts with X.2)	X.2			

**10.1** **VOLUME KEYS (3)**



**23. QUICK TROUBLESHOOTER - CAMERA KEY**



Explanation

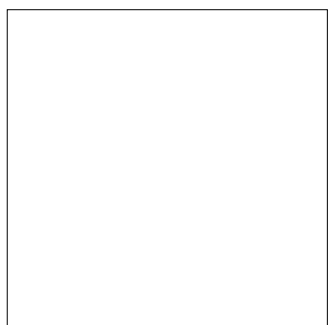
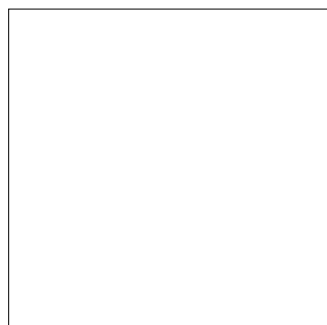
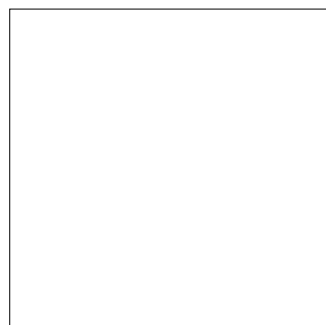
Fault number **X.1** **Symtom (3)**

Zoom position (Note! First zoom starts with **X.2**)

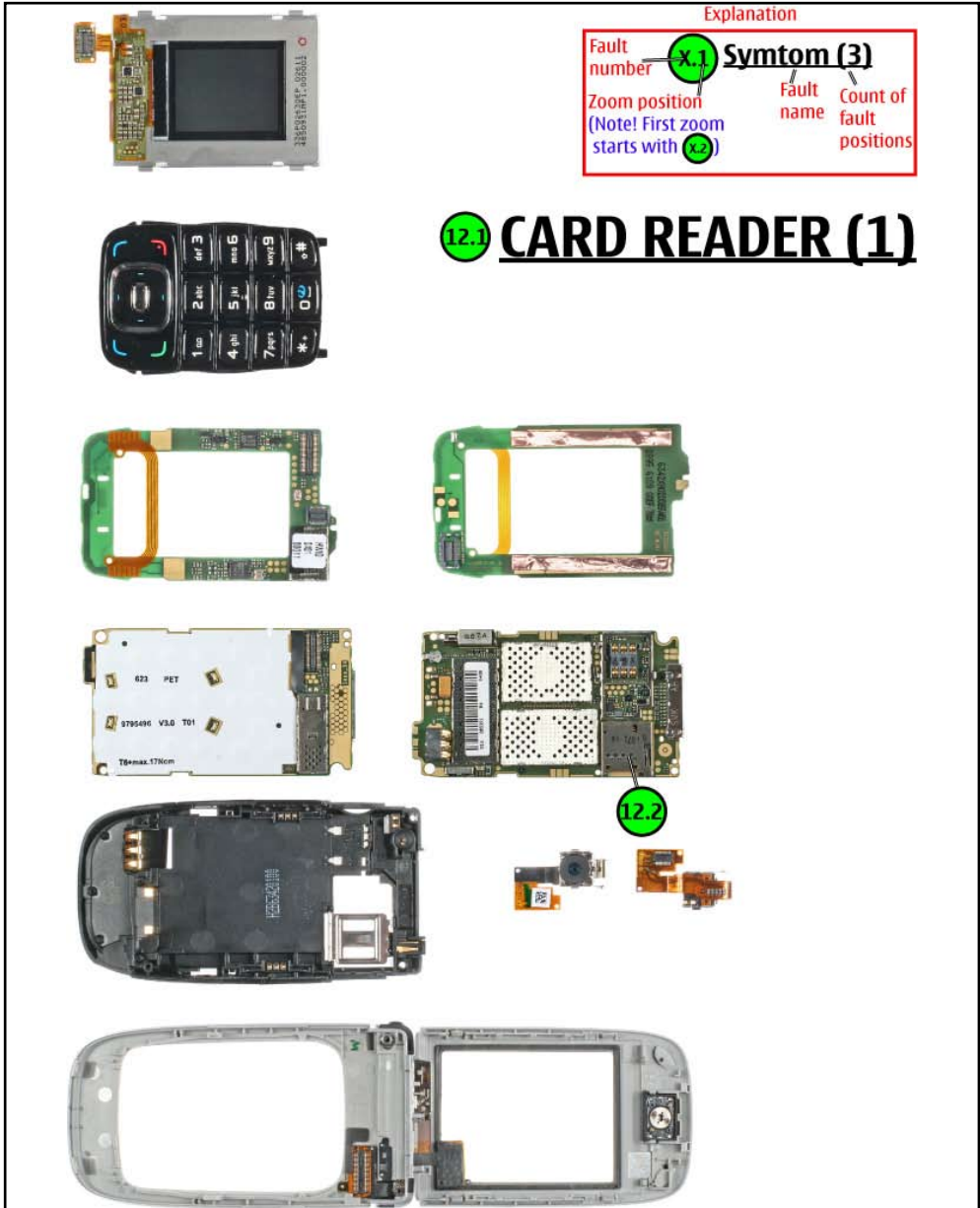
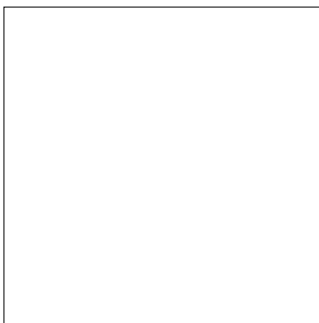
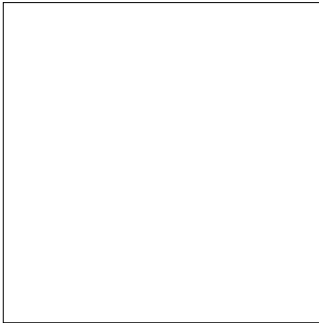
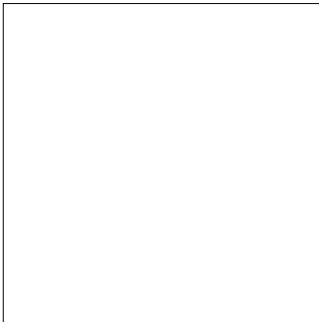
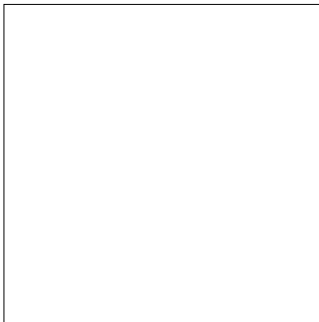
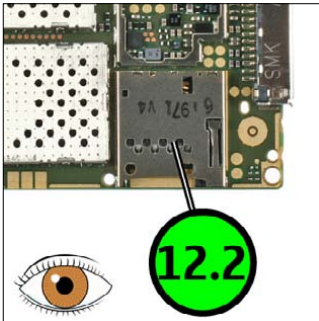
Fault name

Count of fault positions

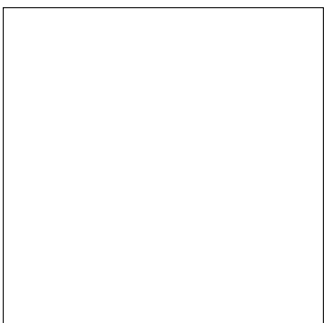
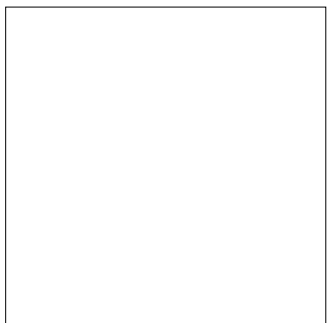
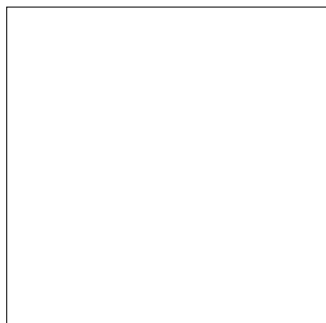
**11.1** **CAMERA KEY (3)**



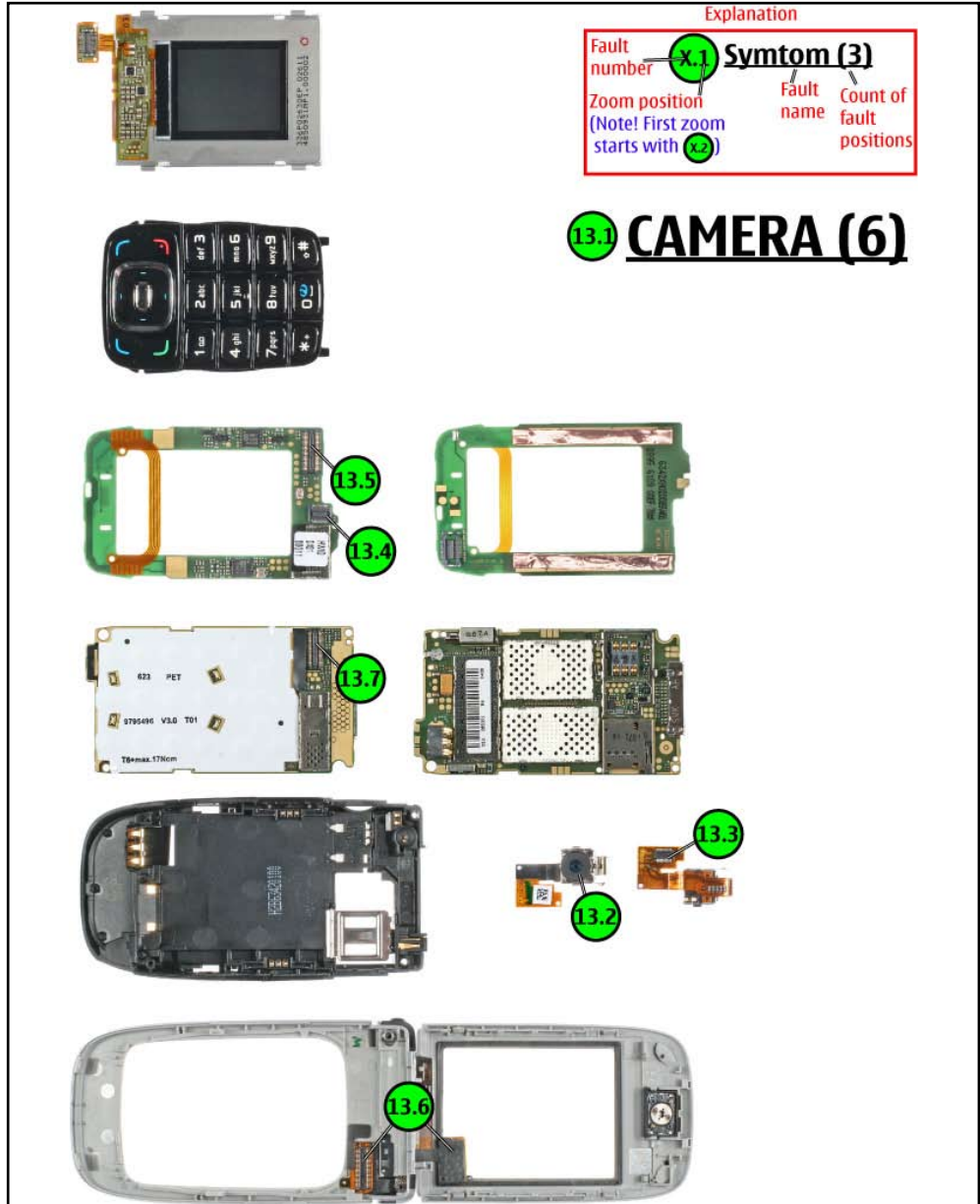
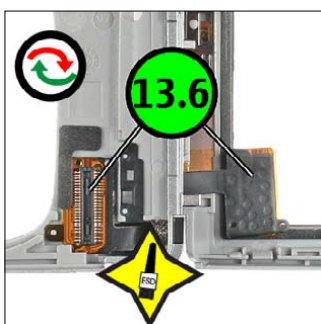
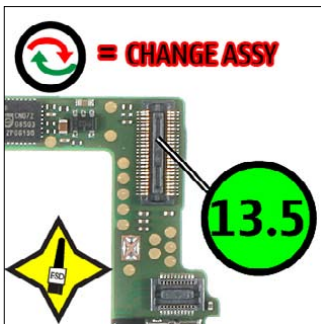
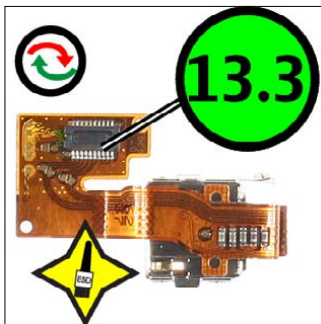
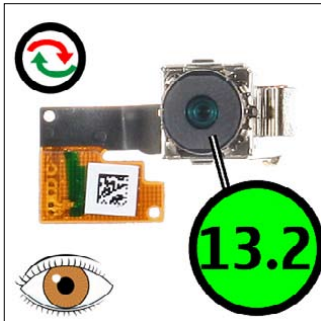
**24. QUICK TROUBLESHOOTER - CARD READER**



**12.1 CARD READER (1)**



**25.QUICK TROUBLESHOOTER - CAMERA**



Explanation	
Fault number	X.1
Zoom position (Note! First zoom starts with X.2)	
Fault name	Symtom (3)
Count of fault positions	

**13.1 CAMERA (6)**

