NOKIA
Connecting People
CMO Operations & Logistics
WW Competence Transfer
Multimedia Creation & Support

SERVICE MANUAL
Level 1&2

NOKIA 6270

RM-56

Transceiver characteristics:

BAND: Quad-band phone for GSM 850/900/1800/1900MHz

CAMERA: 2 Mega pixel camera with landscape camera mode and Flashlight

DISPLAY: Active matrix color display with 262.144 colors, resolution 320 x 240 pixel

BLUETOOTH

IRDA

FM RADIO

CARD TYPE: miniSD™

CONNECTOR: Pop Port connector

AUDIO: 2 IHF speaker for 3D-stereo sound effects

Transceiver with BL-5c 900mAh Li-Ion battery pack

Talk time	Standby	Note
up to 3-5h	up to 8days	Depends on network parameters

Environmental characteristics:

• Lead-free soldered

CMO Operations & Logistics
WW Competence Transfer
Multimedia Creation & Support

TABLE OF CONTENTS

CHANGE HISTORY

Status	Version No.	Date	Comments
Draft	0.1	09.11.2005	Initial draft
Approved	1.0	17.11.2005	Approval
Approved	2.0	25.11.2005	Quick Trouble Shooter added
Approved	3.0	8.2.2006	CA-53 Service Cable added to the Tools chapter

NOKIA
Connecting People
CMO Operations & Logistics
WW Competence Transfer
Multimedia Creation & Support

Page   3   (29)

CONFIDENTIAL

Approved 3.0

MGR

8.2.2006

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
2. THE IMMUNITY OF VEHICLE ELECTRONIC SYSTEMS TO RF ENERGY.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.

NOKIA
Connecting People
CMO Operations & Logistics
WW Competence Transfer
Multimedia Creation & Support

Page   4   (29)

CONFIDENTIAL

Approved 3.0

MGR

8.2.2006

2. GENERAL REPAIR INFORMATION

In this section the technician will get some general hints how to carry out repairs:

- To familiarize oneself with NOKIA product read the tutorials or user guide on **www.nokia.com** -->Support--> Phones, by selecting the Phone Model.
- Before starting the repair you must take care of ESD precautions like being in your ESD Protected Area and connecting your wristband.
- Use gloves to avoid corrosion and fingerprints.
- Protect windows and displays with a film to avoid dust and scratches.
- When cleaning the LCD Module any lint-free cloth can be used (e.g. Micro-Fibre cloth).
- When cleaning the pads you have to use a soft cloth/ESD brush and Isopropanol. It is not allowed to use a glass fiber pencil because it scratches the surface and will lead later on to corrosion.
- Mechanical parts (except shielding lids and bent parts), which didn't repair the failure, can be reused, if they are not soldered.
- When removing the shielding lids make sure to replace them with new ones, otherwise the high-frequency leakage can have an influence on the device.
- Always use original NOKIA spare parts.
- Check the soldering joints of the parts, which are concerned regarding the indicated error (e.g. soldered connectors or switches) and resolder them if necessary (Level 2 only).
- Remove redundant soldering flux after repair.
- Meet the torque requirements when assembling the unit (see also the document "torques for transceiver assembly" on NOKIA Partner Web Site/NOKIA Online).
- Always use your own equipment for testing where you are sure that it works. E.g. if the customer complains about charger function, please test the phone with your own charger to be sure if phone or charger causes the malfunction.
- A SIM card is needed for all GoNoGo tests.
- When doing the fault log entries, always note the Item code, which caused the malfunction. Also, fill in the appropriate part code from the assembly, if needed.
- Please be aware that some malfunctions could be software related and solved by an update.

- There are several documents available on NOL, which have to be followed:
-
- First, take care for the latest content pages of Service Bulletins, which are always available for each folder on NOKIA Online. This is also important to recognize, if existing documents have become invalid.
-
- The service level indicator at the bottom of each document tells the appropriate destination.

Downloads > Support Library >

    1.   Instructions
    2.   General Service Bulletins
    3.   Product related documents
    4.   Spare Part Service Bulletins
    5.   Service Tools Service Bulletins
    6.   Common Software Service Bulletins
   etc,...

Use General SB-217 as a reference or overview.

Please also check NOKIA Online (NOL) for latest news and files on a regular basis.

NOKIA
Connecting People
Page   5   (29)   Approved 3.0
CMO Operations & Logistics   MGR
WW Competence Transfer
Multimedia Creation & Support   CONFIDENTIAL   8.2.2006

3. PATHFINDER FOR WORKSHOP STAFF

In addition to the information in this Service Manual, there are several instructions and information, which have to be followed. Main documentation database is **NOKIA Online** with the purpose of serving different multimedia content, like video clips or interactive tutorials.

It is mandatory to watch for newest technical and organizational information on a daily basis to be updated as required (see "**Latest files in Support Library**"). Every new information has to be processed and implemented as soon as possible. When logged into NOL you can also find needed information in different folder like:

Support Library

Phones
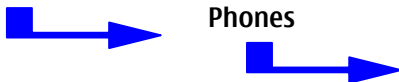
Service Manuals
Service Bulletins
Software
Repair Information

Level 1&2 e-learning (former NOKIA CarePoint) on NOKIA Online

Former NOKIA CarePoint content, such as	• Online Troubleshooting • Product information • Videos – Disassembly/Assembly	can be found on **NOKIA Online**

NOKIA Online

Care Services

Training

Phone Models

Level 1&2 e-learning courses offer a quick overview of the NOKIA phone and support for how to repair and use the phone:

Overview & Guides Basic information about the phone, features and technologies	Disassembly & Assembly Instructions how to disassemble and assemble the phone	Troubleshooting Step-by-step instructions on how to locate and repair the most common problems with the phone

To reduce the server traffic it is recommended to download newest version of huge files like videos, Phoenix packages or Service Manuals only once and distribute it internally for further use.
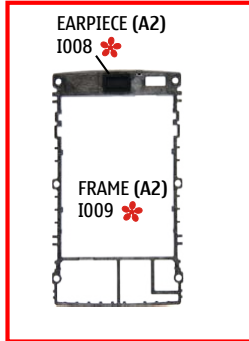
NOKIA
Connecting People

CMO Operations & Logistics
WW Competence Transfer
Multimedia Creation & Support

Page   6   (29)

CONFIDENTIAL

Approved 3.0

MGR

8.2.2006

4. EXPLODED VIEW AND COMPONENT DISPOSAL

Recommendation for the ecologically friendly disposal of components. Colorized components show the different categories. See corresponding ITEM/CIRCUIT REF in the Spare Parts Service Bulletins on NOL.
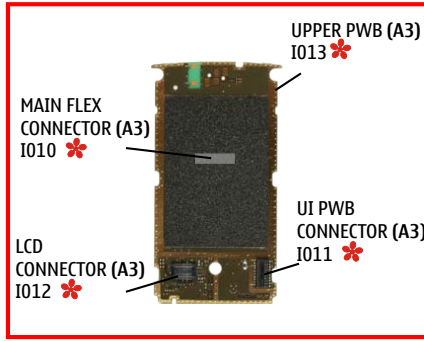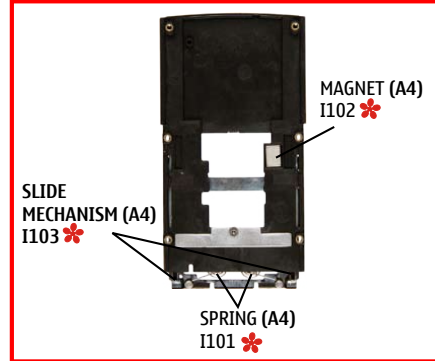

A-COVER I001

6XSCREWS M1.6X4.0 T6+ I003

LCD I007

EARPIECE (A2) ❋ I008

UPPER PWB (A3) ❋ I013

MAIN FLEX CONNECTOR (A3) ❋ I010

MAGNET (A4) ❋ I102

SLIDE MECHANISM (A4) I103 ❋

MAIN FLEX I104

FLASH SHIELDING LID I206

RF SHIELDING LID I204

ENGINE MODULE (NOT SUPPLIED) I207

CAMERA I210

IHF SPEAKER RIGHT (A6) I214

IHF SPEAKER ADHESIVE (A6) I215

IHF SPEAKER LEFT (A6) I213

POWER BUTTON DOME (A6) ❋ I223

C-COVER (A6) ❋ I220

ANTENNA FLEX FOIL (A6) ❋ I224

LED FLASH LIGHT (A6) I225

TOP COVER (A5) ❋ I211

POWER BUTTON (A5) ❋ I212

FLASH LENS (A7) I230 ❋

CAMERA LENS (A7) I229 ❋

POC KEY (PUSH TO TALK OVER CELLULAR (A7) I233

BATTERY COVER I236

IR LENS (A7) I234 ❋

SD DOOR (A7) I235

FUNCTION KEYMAT I002

UI PWB (A1) I005 ❋

LED (A1) I006 ❋

DOMESHEET (A1) I004 ❋

FRAME (A2) I009 ❋

UI PWB CONNECTOR (A3) I011 ❋

LCD CONNECTOR (A3) I012 ❋

SPRING (A4) I101 ❋

KEYMAT COVER ASSY I201

KEYMAT I202

DOMESHEET I203

RETU-TAHVO SHIELDING LID I209

BT SHIELDING LID I205

BB SHIELDING LID I208

SIDE KEY FLEX ASSY (A6) I219

MICROPHONE (A6) I218

DC-JACK (A6) I217

SIM DOOR (A6) I222 ❋

METAL DECK (A6) I221 ❋

VIBRA (A6) I216

TYPE LABEL (LEVEL 3/4 only) I226

6XSCREWS M1.6X4.0 T6+ I227

CAMERA KEY (A7) I232

VOLUME KEY (A7) I231

BACK COVER (A7) I228 ❋

A1= UI PWB ASSY
A2= LCD FRAME ASSY
A3= UPPER PWB ASSY
A4= SLIDE MODULE ASSY
A5= TOP COVER ASSY
A6= C-COVER ASSY
A7= BACK COVER ASSY

❋ = only available as assembly

Ver. 2.0 ● ELECTRO ● SILICON ● METAL ● PLASTIC ● PWB ● COVER

NOKIA
Connecting People

CMO Operations & Logistics
WW Competence Transfer
Multimedia Creation & Support

Page   7   (29)

CONFIDENTIAL

Approved 3.0

MGR

8.2.2006

5. SPARE PARTS OVERVIEW

A2 = LCD FRAME ASSY

EARPIECE (A2) I008
FRAME (A2) I009

A3 = UPPER PWB ASSY

UPPER PWB (A3) I013
MAIN FLEX CONNECTOR (A3) I010
LCD CONNECTOR (A3) I012
UI PWB CONNECTOR (A3) I011

A4 = SLIDE MODULE ASSY

MAGNET (A4) I102
SLIDE MECHANISM (A4) I103
SPRING (A4) I101

A1 = UI PWB ASSY

LED (A1) I006
UI PWB (A1) I005
DOMESHEET (A1) I004

A5 = TOP COVER ASSY

POWER BUTTON (A5) I212
TOP COVER (A5) I211

A7 = BACK COVER ASSY

BACK COVER (A7) I228
CAMERA LENS (A7) I229
FLASH LENS (A7) I230
POC KEY (PUSH TO TALK OVER CELLULAR (A7) I233
VOLUME KEY (A7) I231
IR LENS (A7) I234
CAMERA KEY (A7) I232
SD DOOR (A7) I235

A6 = C-COVER ASSY

IHF SPEAKER LEFT (A6) I213
IHF SPEAKER RIGHT (A6) I214
IHF SPEAKER ADHESIVE (A6) I215
POWER BUTTON DOME (A6) I223
ANTENNA FLEX FOIL (A6) I224
LED FLASH LIGHT (A6) I225
VIBRA (A6) I216
SIM DOOR (A6) I222
C-COVER (A6) I220
METAL DECK (A6) I221
DC-JACK (A6) I217
MICROPHONE (A6) I218
SIDE KEY FLEX ASSY (A6) I219

RF SHIELDING LID I204
FLASH SHIELDING LID I206
BT SHIELDING LID I205
BB SHIELDING LID I208
RETU-TAHVO SHIELDING LID I209
DOMESHEET I203
ENGINE MODULE (NOT SUPPLIED) I207
TYPE LABEL (LEVEL 3/4 only) I226
CAMERA I210

A-COVER I001
KEYMAT I202
FUNCTION KEYMAT I002
KEYMAT COVER ASSY I201
LCD I007
MAIN FLEX I104
6XSCREWS M1.6X4.0 T6+ I003
6XSCREWS M1.6X4.0 T6+ I227
BATTERY COVER I236

A1= UI PWB ASSY
A2= LCD FRAME ASSY
A3= UPPER PWB ASSY
A4= SLIDE MODULE ASSY
A5= TOP COVER ASSY
A6= C-COVER ASSY
A7= BACK COVER ASSY

❋ = only available as assembly

Ver. 2.0

NOKIA
Connecting People

Page   8   (29)

Approved 3.0

MGR

CONFIDENTIAL

8.2.2006

CMO Operations & Logistics
WW Competence Transfer
Multimedia Creation & Support

6. SPARE PARTS LIST

Please exchange this page (placeholder) with latest corresponding Service Bulletins (spare parts, SWAP units and service tools) from NOL!

This will ensure, that you are using up-to-date order codes only.

Therefore Service Bulletins have to be checked from NOL on daily basis.
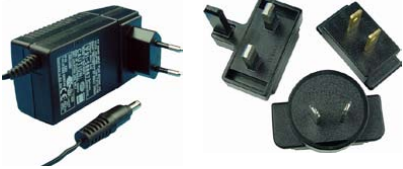
7. SERVICE TOOLS

	FLS-4S incl. ACF-8, Driver and User Guide Dongle and flash device incorporated into one package, developed specifically for POS use.
	ACF-8 Universal Power Supply is used to power FLS-4S.
	Travel Charger ACP-12 Small and lightweight charger for fast charging of your phone battery.
	Internal Battery BL-5C Inserted under the back cover, this Li-Ion 900 mAh battery provides power in a lightweight package.
	Headset HS-23 Small and lightweight stereo headset with handsfree functionality, volume control, Push to talk support, and comfortable earpieces for listening to the FM radio or MP3 player in compatible phones.
	SS-15 Camera removal tool. One side is for disassembly, the other side for assembly.
	CA- 53 Service Cable to connect the PC with the Pop-Port™ connector.

CONFIDENTIAL

	RJ-76 Soldering Jig
	Lead-free Solder Wire Mandatory for lead-free products (Level 2 only).
	0772040 NMP Standard Toolkit • NOKIA opening tool SRT-6 NOKIA No. 0770431 • Tonichi torque driver NOKIA No. 6901525 • Hoya micro Fibre cloth MX304 • Dastex gloves S, M, XL • Artilux goggles AH166 • Wera bit T5 867/4TX 5x50 • Wera 867/4 6IP; 50mm (Torx 6 PLUS®) • Wera bit T6 867/4TX 6x50 • Wera 867/1 5IP; 25mm (Torx 5 PLUS®) • Wera bit T6 PLUS® 867/4TX 6IP • Facom side cutter 416E • Facom T5 driver SP.14032 • Facom T6 driver SP.14033 • Facom slot screwdriver AEF. 2x35.E • Wetec tweezers 7abb SA-ESD • Wetec tweezers 22 SA-ESD • Wetec tweezers 13 SA-SMD ESD • Wetec tweezers PSF SA-ESD • Wetec ESD brush E1211 • Kaiser Fototechnik airbrush 6315 • Wetec dental tool DEM83266/0 • RS Components Scissors 323-5732

8. 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](#).

CONFIDENTIAL
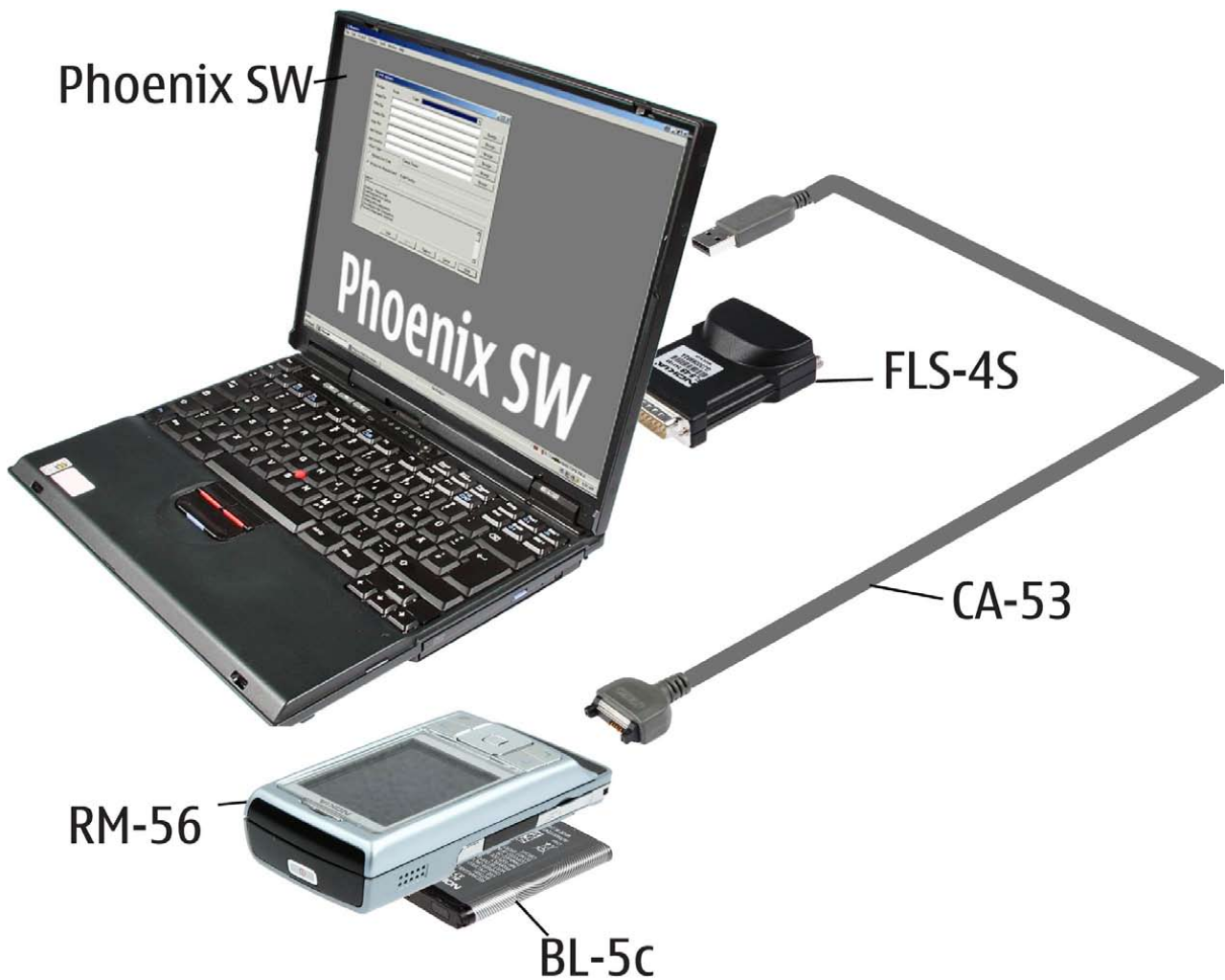
9. DISASSEMBLY INSTRUCTION (UPPER PART)

1. Needed tools for disassembly and assembly.

2. Protect the window with a plastic film.

3. Protect the camera window with a plastic film.

4. Remove the **Battery Cover.** Ensure that no battery is still inserted.

5. Carefully release the shown plastic clips from the bottom side.

6. Prevent scratching the surfaces. Do not shift the SRT-6 along the sides.

7. Continue on the opposite side.

8. After releasing both clips shift out the unit.

NOKIA
Connecting People
CMO Operations & Logistics
WW Competence Transfer
Multimedia Creation & Support

Approved 3.0
MGR
8.2.2006

CONFIDENTIAL

9. Now lift the lower side and hold it in this position.

10. Carefully release the upper clips of the **A-Cover** with a slotted screwdriver.

11. Release the clips on the opposite side, too.
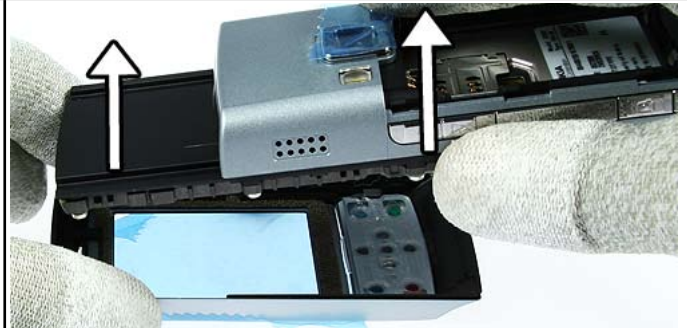
12. The separation of the parts becomes easy if all clips are released correctly.

13. Protect the inner side of the window with a plastic film and separate the **Function Keymat.**

14. Protect the **LCD** with a plastic film, too.

15. Remove 2 Torx Plus® size 6 screws in the order shown.
For assembly, use the reverse order and a torque of 14 Ncm.

16. All screws in this phone must be renewed after removal.

NOKIA
Connecting People
CMO Operations & Logistics
WW Competence Transfer
Multimedia Creation & Support

Page   14 (29)

CONFIDENTIAL

Approved 3.0

MGR

8.2.2006

17. Remove the **UI PWB.**
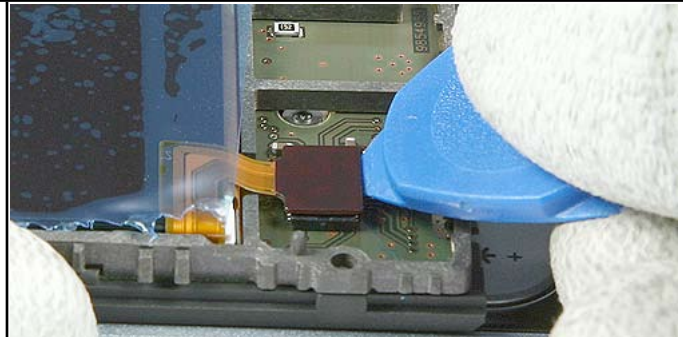
18. Open the flex connector.
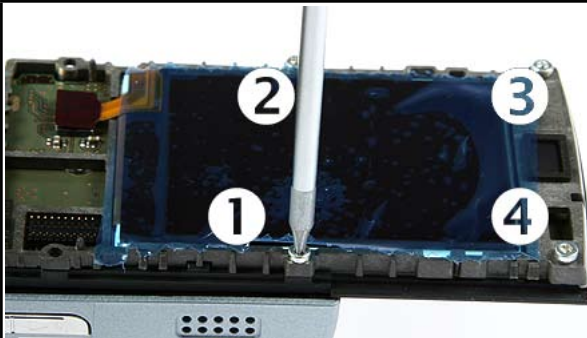
19. Remove 4 Torx Plus® size 6 screws in the shown order. **For assembly use the reverse order and the torque of 14 Ncm.**

20. Remove the **LCD Frame Assy.**
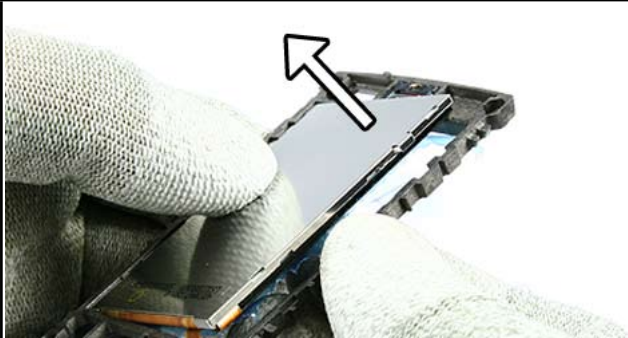
21. Separate the **LCD** from the **Frame**.
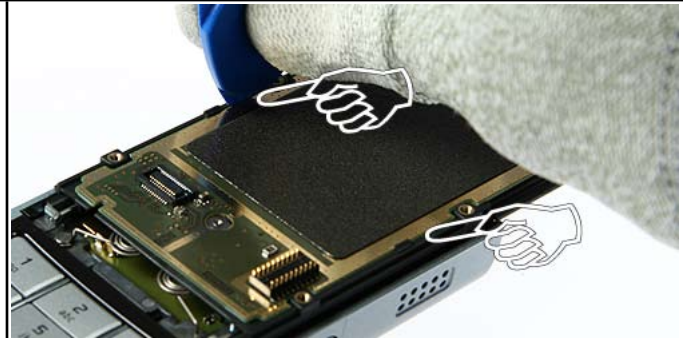
22. Release the clips and lift out the **Upper PWB Assy.** Bear in mind that the PWB is still connected with a flex foil.
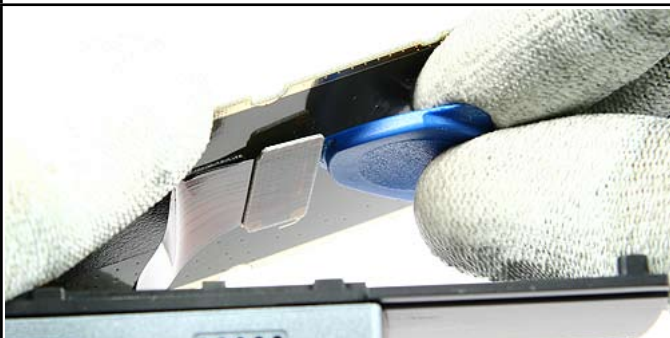
23. Carefully open the **Main Flex Connector.**

24. Remove the **Upper PWB.**

Service Manual 6270 RM-56

10. DISASSEMBLY INSTRUCTION (LOWER PART)

 1. Needed tools for disassembly and assembly.	 2. Protect the window with a plastic film.
 3. Protect the camera window, too.	 4. Remove the **Battery Cover.** Ensure that no battery is inserted.
 5. Release the clips of the **Keymat** with the SRT-6 as shown.	 6. Ensure that all clips are released.
 7. Separate the **Keypad.**	 8. Remove the 2 Torx Plus® size 6 screws in the order shown. **For assembly use the reverse order and a torque of 14 Ncm.**

Approved 3.0

MGR

8.2.2006

CONFIDENTIAL
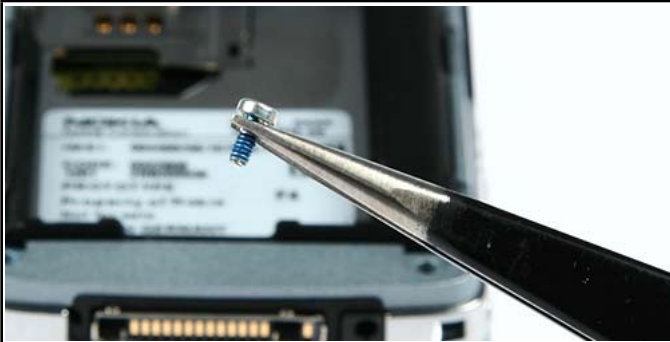
9. Note that all screws used in this phone must be renewed after removal.

10. Release the plastic clips of the **Keymat Cover Assy.**

11. After releasing the clips, **the Keymat Cover Assy** can be removed easily.

12. Remove the screw. **For assembly use a torque of 14 Ncm.**

13. Release the clips of the **Back Cover Assy** on both sides as shown.
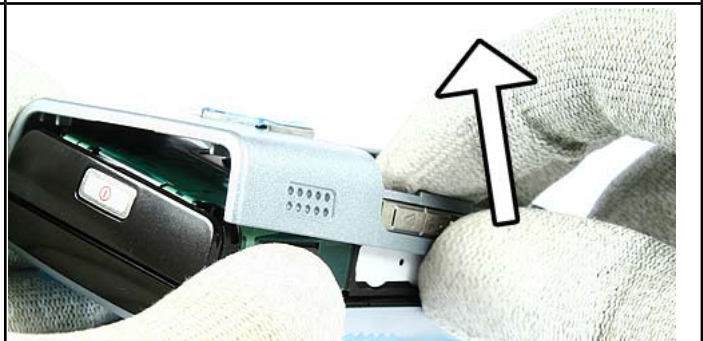
14. Carefully lift the **Back Cover Assy** from one side first. Place the connector side first when reassemble.

15. The keys are not fixed any more. Do not loose them.

16. Carefully push out the hinge from the **SD Door** at the shown side first.

![NOKIA Connecting People]

CONFIDENTIAL

17. Now pull out the other side.

18. Release the **Flash Light** with the SRT-6.
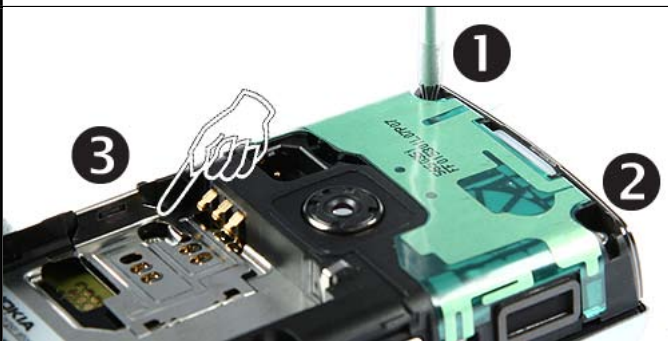
19. Remove the 3 screws in the order shown. **For assembly use the reverse order and a torque of 14 Ncm.**
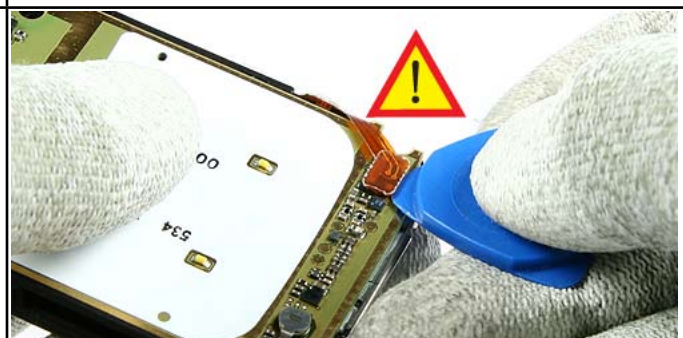

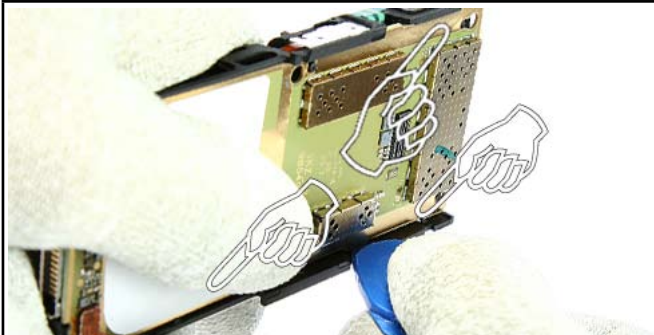20. Remove the **Top Cover Assy.**

21. Push out the **Power Button.**
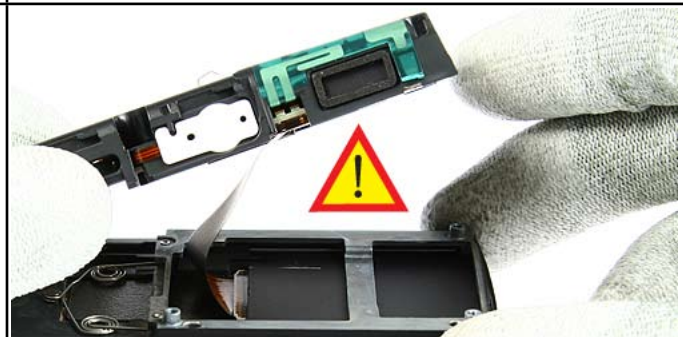
22. Lift out the Engine Module. Bear in mind that the **Main Flex** is still connected.
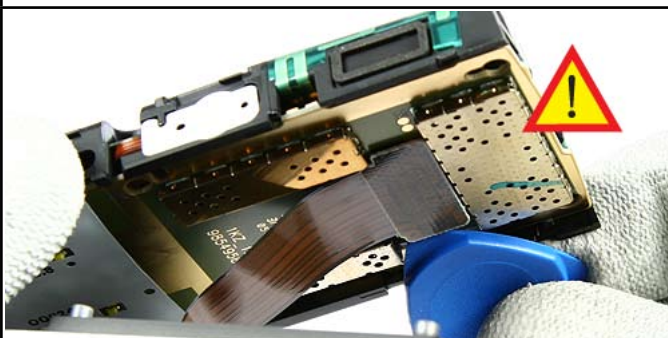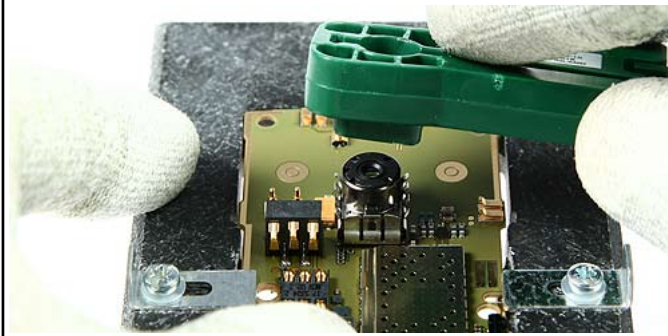

23. Open the connector of the **Main Flex.**

24. Open the connector of the **Side Key Flex Assy.**

Service Manual 6270 RM-56

CONFIDENTIAL

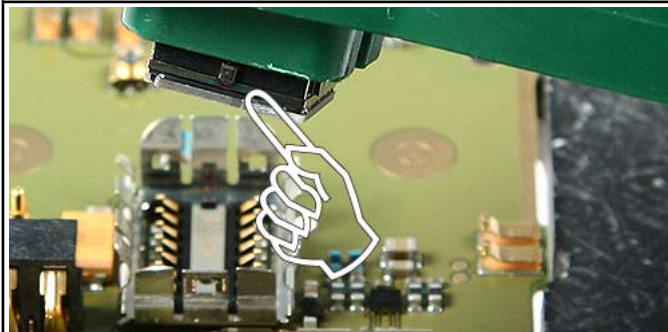25. Release the plastic clips as shown.

26. Lift out the **Engine Module** and place it into the rework jig.

27. Use the SS-15 camera removal tool to remove the **Camera.**

28. Place the tool and push it down carefully. Fix the **Camera.**

29. Now pull the **Camera** upwards. For assembly mind the correct position and use the assembly side of the SS-15.

30. Lever out the **Vibra.**

31. Remove the **DC-Jack** with the DC plug.

32. Remove the **Microphone** with the dental tool.

NOKIA
Connecting People

CMO Operations & Logistics
WW Competence Transfer
Multimedia Creation & Support

MGR

CONFIDENTIAL

8.2.2006

33. Lever out both **IHF Speakers.**

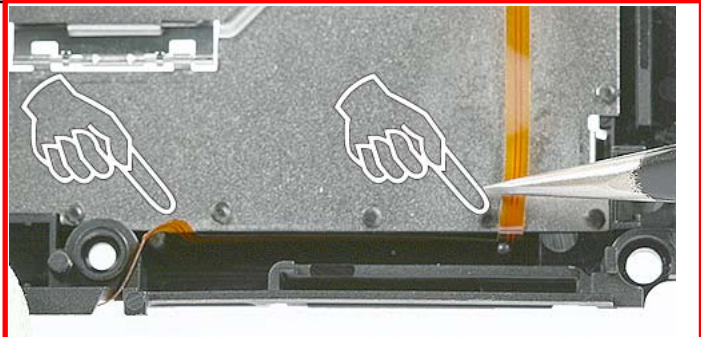34. The **IHF Speaker Adhesives** will be destroyed.

35. Peel up the Adhesive residues with tweezers. **Always use new ones when reassemble.**
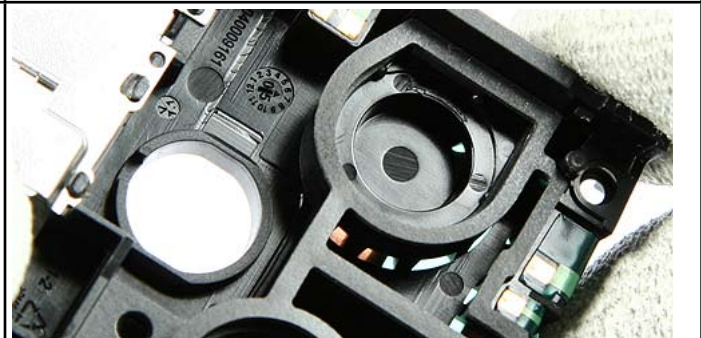
36. Ensure that no residues remain when replacing the IHF Speakers.

37. Peel up the **Side Key Flex Assy** with angled tweezers at the shown side first.

38. For Assembly note the 2 guide pins while placing a new Side Key Flex Assy.
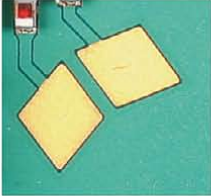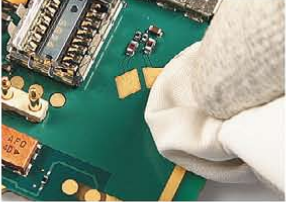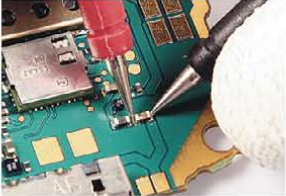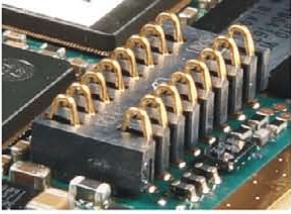
39. Continue with the larger part. Peel it up slowly to prevent adhesive residues.

40. For Assembly mind the correct positioning of the Side Key Flex Assy.

NOKIA
Connecting People

CMO Operations & Logistics
WW Competence Transfer
Multimedia Creation & Support

Page   20   (29)

CONFIDENTIAL

Approved 3.0

MGR

8.2.2006

11. LEGEND FOR QUICK TROUBLE SHOOTER

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.

Fault symptom — The start point of repair activities regarding the appeared fault symptoms.

Only marked components (e.g. I002) can be replaced.

Cloth usage: 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)

ESD Brush usage: Check pads or contacts for optical and mechanical condition particularly regarding to corrosion. Clean it if necessary.

No more action possible - send product to the appropriate service supplier with higher service level.

12. QUICK TROUBLE SHOOTER PART 1

CHARGING

LEVEL 2 ONLY

FUSE
F2000

$\Omega \approx 0 \ \Omega$

ENGINE MODULE
(NOT SUPPLIED)
I207

DC-JACK
I217

BATTERY CONNECTOR
X2070   LEVEL 2 ONLY

Service Level 3/4

EARPIECE

ENGINE MODULE
(NOT SUPPLIED)
I207

MAIN FLEX
I104

A3=UPPER PWB
ASSY

Board to Board
CONNECTOR
X2400

LEVEL 2 ONLY

A2=LCD FRAME
ASSY

EARPIECE
I008

180°

Service Level 3/4

KEYMAT

ENGINE MODULE
(NOT SUPPLIED)
I207

DOMESHEET
I203

KEYMAT
I202

Service Level 3/4

FUNCTION KEYMAT

ENGINE MODULE
(NOT SUPPLIED)
I207

MAIN FLEX
I104

180°

A3=UPPER PWB
ASSY

Board to Board
CONNECTOR
X2400

LEVEL 2 ONLY

DOMESHEET
I004

180°

FUNCTION
KEYMAT
I002

A1=UI PWB
ASSY

Service Level 3/4

13. QUICK TROUBLE SHOOTER PART 2

IHF SPEAKER

ENGINE MODULE (NOT SUPPLIED) I207

IHF SPEAKER LEFT I213

A6=C-COVER ASSY

IHF SPEAKER RIGHT I214

To Service Level 3/4

SERVICE GSM

ENGINE MODULE (NOT SUPPLIED) I207

SPRING CONTACTS **LEVEL 2 ONLY**
X7550
X7551
X7555

A6=C-COVER ASSY

ANTENNA FLEX FOIL I224

To Service Level 3/4

DISPLAY

Board to Board CONNECTOR X2400

ENGINE MODULE (NOT SUPPLIED) I207

MAIN FLEX I104

LCD I007

A3=UPPER PWB ASSY

180°

To Service Level 3/4

BLUETOOTH

ENGINE MODULE (NOT SUPPLIED) I207

X6002 X6001

SPRING CONTACTS **LEVEL 2 ONLY**

BT ANTENNA CONTACTS

A6=C-COVER ASSY

To Service Level 3/4

14. QUICK TROUBLE SHOOTER PART 3

VIBRA

ENGINE MODULE (NOT SUPPLIED) I207

VIBRA I216

A6=C-COVER ASSY

POWER

LEVEL 2 ONLY

SPRING CONTACTS LEVEL 2 ONLY

BATTERY CONNECTOR X2070

X7553

ENGINE MODULE (NOT SUPPLIED) I207

X7554

POWER BUTTON DOME I223

A5=TOP COVER ASSY

A6=C-COVER ASSY

POWER BUTTON I212

VOLUME, POC

X2402

POC KEY (PUSH TO TALK OVER CELLULAR) I233

ENGINE MODULE (NOT SUPPLIED) I207

SIDE KEY FLEX ASSY I219

VOLUME KEY I231

CAMERA

X2402

ENGINE MODULE (NOT SUPPLIED) I207

SIDE KEY FLEX ASSY I219

ENGINE MODULE (NOT SUPPLIED) I207

180°

CAMERA KEY I232

CAMERA CONNECTOR X3300

CAMERA I210

Service Level 3/4

15. QUICK TROUBLE SHOOTER PART 4

CMO Operations & Logistics
WW Competence Transfer
Multimedia Creation & Support

Page   25   (29)

CONFIDENTIAL

Approved 3.0

MGR

8.2.2006

16. CAMERA GONOGO TEST

Before starting the GoNoGo test, check that camera window is clean. If not, clean the window with cloth.

- Press the red End button ![End button] to reach the Home Menu

- Select Menu ![Menu button]
- Select **Media**
- Select **Camera**

- Press **Capture** ![Capture button] or use the **Camera Key** ![Camera key] to take a photo

  This Image will be saved to Gallery into the Photos folder automatically.

  Test was successful, if the Image appears on your Display. The camera is ok.
- Select **Delete**
- Select **Yes**
- Press the red End button to reach the Home Menu

If the test is failed see Quick Trouble Shooter.

CMO Operations & Logistics
WW Competence Transfer
Multimedia Creation & Support

Page   26 (29)

CONFIDENTIAL

Approved 3.0

MGR

8.2.2006

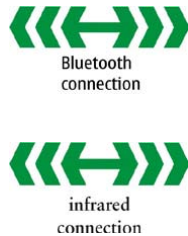# 17. BLUETOOTH & INFRARED TEST

Bluetooth test
You need another Bluetooth device (e.g. 6230) to do a GoNoGo test.
Make sure that Bluetooth is activated in the reference unit. The distance of the devices should be not more than 5m from each other.

Infrared test
You need another infrared device (e.g. 6230) to do a GoNoGo test. The infrared windows of the devices must be directed to each other and should have a distance of approximate 15 cm. Make sure that infrared is activated in receiver device.

Warning: Do not point the IR (infrared) beam at anyone's eye or allow it to interfere with other IR devices. This device is a Class 1 Laser product.

Reference unit, Bluetooth /infrared activated   Test unit

Settings on the test unit:

- Press the red **End** key to reach the Home Menu
- Select Names

    If phone and SIM memory is empty, create one new entry.
- **Select** an entry and select Details
- Select Options
- Select **Send business card**

    A) - for infrared test: Select **Via infrared**

        If sending of business card fails, make sure again that infrared windows are directed to each other and infrared is activated in reference unit. Then try again sending.

        Test was successful, if you get the message **"Business card received"** on the Reference unit.

        You will <u>not</u> get a confirmation on sender device.

    B) - for Bluetooth test: Select **Via Bluetooth**

        Search window appears and shows all Bluetooth units in range.

        Choose one unit and press **Select**

        Press **Accept** on the Reference unit.

        Test was successful, if you get the message **"Business card received"** on the Reference unit.
- Press red **End** key of the Test unit to reach the Home Menu

Note: If the Bluetooth is activated, switch it off!

NOKIA
Connecting People

Page   27 (29)

Approved 3.0

MGR

8.2.2006

CMO Operations & Logistics
WW Competence Transfer
Multimedia Creation & Support

CONFIDENTIAL

18. GONOGO TEST

After the optical check, a GoNoGo test has to be carried out if the unit has been unscrewed to guarantee the functionality of the phone.

Please refer to the actual information on NOKIA Online. When using delivered tester support files, take care of the right setup according to the tester type and product type.
Please refer to "Recommended Service Equipment" on NOKIA Online.
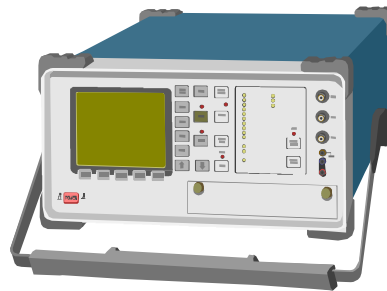
Mobile Phone Tester

19. BATTERY TEST

A battery tester lets you test the capacity of NOKIA batteries.

Please refer to the actual information on NOKIA Online.

http://www.astratec.co.uk/

http://www.cadex.com/

Service Manual 6270 RM-56

NOKIA
Connecting People

Page   28   (29)

Approved 3.0

MGR

CMO Operations & Logistics
WW Competence Transfer
Multimedia Creation & Support

CONFIDENTIAL

8.2.2006

20. FORWARDING OF REPAIRS

When it is necessary to forward of repairs to appropriate service supplier with higher service level we recommend using the offered swap phone cartons as described in Spare Parts SB-004.
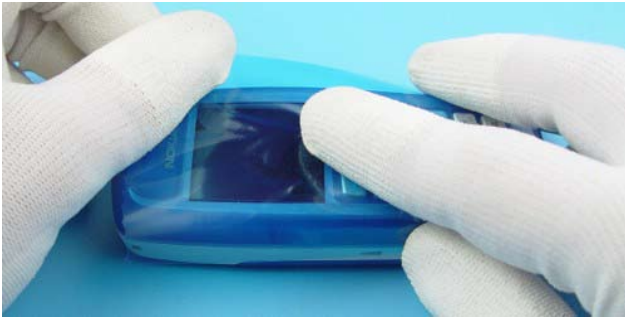
Always Protect the window with a protection film.

Put the unit under the stretch film.

Add repair documentation e.g. filled-in service note into the swap carton.
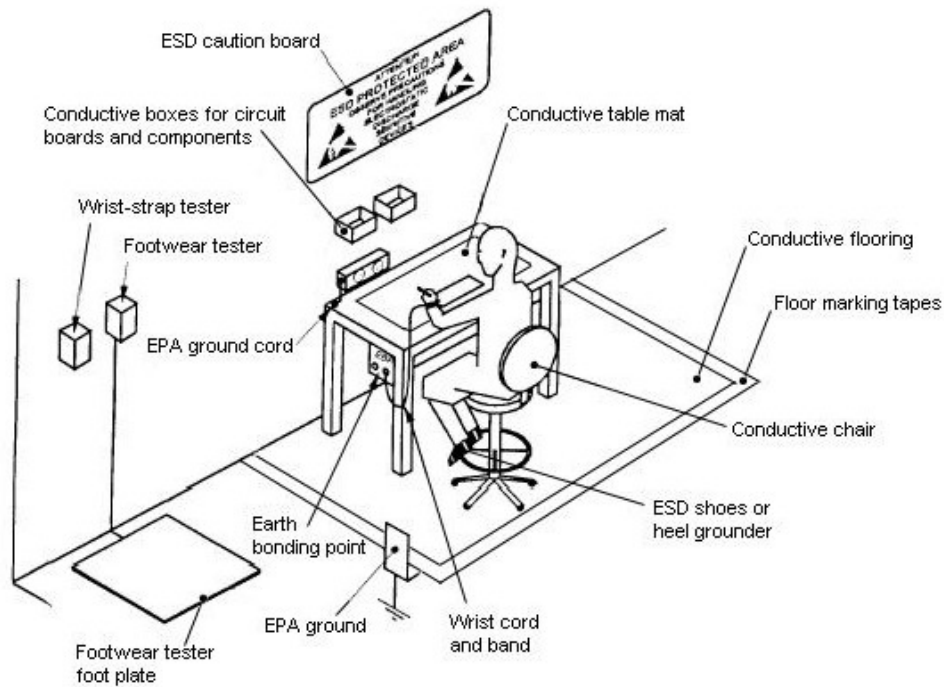

Fold the swap carton as shown in Spare Parts SB-004.

There are two different sizes of swap cartons for common mobile phones.

NOKIA
Connecting People

Approved 3.0

MGR

CONFIDENTIAL

8.2.2006

21. ESD PROTECTION REQUIREMENTS

Please refer to the NOKIA Online document **Service Supplier Requirements** in folder General instructions.

USE Conductive bags and boxes
USE ESD compatible service tools
USE Conductive wastebaskets
USE ESD gloves when handling PWBs/PCBs
USE Cleaning material without changing el. Characteristics
USE Grounded service equipment, i.e. soldering station
USE ESD clothes such as coat or frock

NO Smoking
NO Drinking
NO Eating
NO Dust
NO Useless Items
NO Normal pressured air for cleaning modules/ displays
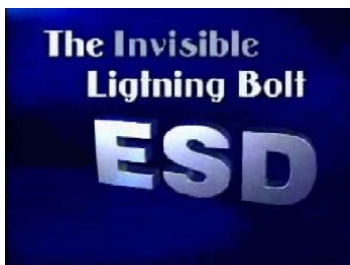
The video covers general issues concerning Electro-Static Discharge (ESD)