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Training and Vendor Development
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27.Apr.2006

SERVICE MANUAL
Level 1&2

NOKIA N91

RM-43 /RM-158

Transceiver characteristics:

Band:

- RM-43: GSM/GPRS/EDGE 900/1800/1900MHz +2100 WCDMA

- RM-158: GSM/GPRS/EDGE 900/1800/1900MHz

Camera: 2 Megapixel, 20x stepless digital zoom

Display: Active matrix color display with 262.144 colors,

resolution 176 x 208 pixel

Bluetooth

WLAN (only RM-43)

USB

Visual Radio + Media Player

Memory Capacity: about 16 MB internal memory + 4 GB Hard Drive

Enhanced music features: 8-band Equalizer, Stereo Widening
Loudness, Balance

Transceiver with BL-5C 970 mAh Li-Ion battery pack

Talk time	Standby	Note
up to 4h (GSM)	up to 190h (GSM)	Depends on network parameters

Environmental characteristics:

• Lead-free soldered

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CHANGE HISTORY

Status	Version No.	Date	Comments
Draft	0.1	03.Mrz.2006	Initial draft
Approved	1.0	28.Mrz.2006	Approval
Approved	2.0	24.Apr.2006	RM-158 added
Approved	3.0	27.Apr.2006	Operating Band corrected and Battery capacity in the Tools chapter changed

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1. INTRODUCTION

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

While every effort 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 always watch out for the newest version.

Warnings and Cautions

Please refer to the phone's user's guide for instructions relating to operation, care, and maintenance, which include 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 CELLULAR 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 must observe the precautions, mentioned in the appropriate "Service Partner Requirements", available on NOKIA Online. Also see ESD Protection Requirements in this Service Manual.

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2. GENERAL REPAIR INFORMATION

This section provides useful repair information how to carry out repairs:

- Make sure your testing equipment is functioning properly before beginning repair work.
- To familiarize yourself with the NOKIA product read the tutorials or user's guide on **www.nokia.com** -->Support--> Phones, by selecting the Phone Model.
- Before starting repairs you must observe ESD precautions such as being in your ESD Protected Area and connecting your wristband.
- Use gloves to avoid corrosion and fingerprints.
- Cover windows and displays with a protective film to avoid dust and scratches.
- Use a lint-free cloth (e.g. Micro-Fibre cloth) to clean the LCD.
- When cleaning the pads use a soft cloth/ESD brush and Isopropanol. Do not use a glass fiber pencil: this scratches the surface and will corrosion.
- Non-faulty mechanical parts (except shielding lids and bent parts or soldered components), may 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 affect the device.
- Always use original NOKIA spare parts.
- Check the soldering joints of the parts concerned with regard to the fault symptom (e.g. soldered connectors or switches) and resolder them if necessary (Level 2 only).
- Remove excess soldering flux after repair.
- Observe the torque requirements when assembling the unit.
- Preferably use your own equipment for testing. E.g. if the customer complains about charger function, please test the phone with your own charger to determine if the malfunction is being caused by 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 of the part that caused the malfunction. Also, fill in the appropriate part code from the assembly if needed.
- Please be aware that some malfunctions may be software related and solved by an update.

- There are several documents available on NOL which must be followed:
-
- First, pay attention to the latest content pages of Service Bulletins, which are always available for each folder on NOKIA Online. Make sure your documentation is up to date.
-
- The service level indicator at the bottom of each document displays the appropriate target group.

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.

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3. PATHFINDER FOR WORKSHOP STAFF

In addition to the information in this Service Manual, there are other instructions and data, which must 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"**). New information must be processed and implemented as soon as possible. When logged into NOL you can also find needed information in different folders like:

Support Library

Phones
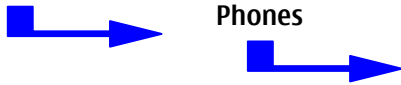
Service Manuals
Service Bulletins
Software
Repair Information

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 on repair and testing.

Overview & Guides	Disassembly & Assembly	Troubleshooting
Basic information about the phone, features, and technologies	Instructions on disassembling and assembling the phone	Step-by-step instructions on locating and repairing the most common problems with the phone

To reduce the server traffic we recommend downloading the newest version of large files like videos, Phoenix packages, or Service Manuals only once to distribute it internally for further use.

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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.

N91 RM-43 Exploded view

SLIDE ADHESIVE TAPE (A2) I008

SLIDE BEZEL I007

PWB FLEX (A2) I010

MICROPHONE (A2) I012

MAGNET (A2) I013

SLIDE COVER (A2) I011

MENU KEY HARDTOP (A1) I002

KEYMAT MEDIA HARDTOP (A2) I009

A-COVER (A1) I001

SLIDE CONNECTOR - POGO (A1) I004

RAIL SPRING L (A1) I005

BEZEL COVER I006

VOLUME KEY HARDTOP (A1) I003

BUTTON JOYSTICK I014

LCD AM 176x208 I017

KEYMAT (A3) I015

LIGHTGUIDE (A3) I016

DISPLAY FRAME (A4) I018

EARPIECE (A4) I019

WLAN BT SHIELD CAN I020

WCDMA PA CAN I021

DOMESHEET I023

ENGINE MODULE (NOT SUPPLIED) I024

CAMERA MODULE I025

GSM PA CAN I022

CONDUCTIVE GASKET (A5) I027

FLEX-FOIL (A5) I029

HDD (A5) I028

BB UNISHIELD (LEVEL 3&4 ONLY) I026

HDD PORON GASKET (A5) I030

TYPE LABEL (LEVEL 3&4 ONLY) I046

SPACER FOR DC JACK (A6) I034

3.5 AUDIO JACK (A6) I041

DC JACK (A6) I035

RELEASE BUTTON (A6) I032

VIBRA ASSY (A6) I036

D-COVER (A6) I031

ANTENNA (A6) I033

HOLD SWITCH HANDLE (A6) I040

VIBRA SHIELD (A6) I037

IHF SPEAKER (A6) I039

SPEAKER GASKET (A6) I038

SCREW 1.8x7.0 FE T6+ I042

MAGNET (A8) I048

ANTENNA COVER (A7) I044

POWER KEY (A7) I043

CAMERA WINDOW (A7) I045

B-COVER (A8) I047

A1= A-COVER ASSEMBLY
A2= SLIDE ASSEMBLY
A3= T9 KEYMAT ASSEMBLY
A4= DISPLAY FRAME ASSEMBLY
A5= HDD ASSEMBLY
A6= D-COVER ASSEMBLY
A7= ANTENNA COVER ASSEMBLY
A8= B-COVER ASSY

✳ = only available as assembly

Ver. 1.0   ● ELECTRO   ● SILICON   ● METAL   ● PLASTIC   ● PWB   ● COVER

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5. SPARE PARTS OVERVIEW

Spare Parts overview N91 RM-43

A1 = A-COVER ASSEMBLY

A-COVER **(A1)**
I001 ✻

MENU KEY
HARDTOP **(A1)**
I002

VOLUME KEY
HARDTOP **(A1)**
I003

RAIL
SPRING L **(A1)**
I005

SLIDE CONNECTOR - POGO **(A1)**
I004

A2 = SLIDE ASSEMBLY

KEYMAT MEDIA
HARDTOP **(A2)**
I009 ✻

PWB
FLEX **(A2)**
I010 ✻

SLIDE
COVER **(A2)**
I011 ✻

MAGNET **(A2)**
I013 ✻

MICROPHONE **(A2)**
I012 ✻

SLIDE
ADHESIVE
TAPE **(A2)**
I008

A3 = T9 KEYMAT ASSEMBLY

KEYMAT **(A3)**
I015 ✻

LIGHTGUIDE **(A3)**
I016 ✻

A4 = DISPLAY FRAME ASSY

EARPIECE **(A4)**
I019

DISPLAY FRAME **(A4)**
I018 ✻

A5 = HDD ASSEMBLY

CONDUCTIVE
GASKET **(A5)**
I027 ✻

HDD **(A5)**
I028 ✻

FLEX-FOIL **(A5)**
I029 ✻

HDD PORON
GASKET **(A5)**
I030

A6 = D-COVER   ASSEMBLY

HOLD SWITCH
HANDLE **(A6)**
I040

3.5 AUDIO
JACK **(A6)**
I041

IHF
SPEAKER **(A6)**
I039

SPEAKER
GASKET **(A6)**
I038

ANTENNA **(A6)**
I033 ✻

VIBRA
ASSY **(A6)**
I036

RELEASE
BUTTON **(A6)**
I032 ✻

VIBRA
SHIELD **(A6)**
I037

D-COVER **(A6)**
I031 ✻

DC JACK **(A6)**
I035

SPACER FOR
DC JACK **(A6)**
I034

A7 = ANTENNA COVER ASSEMBLY

ANTENNA COVER **(A7)**
I044 ✻

POWER KEY **(A7)**
I043 ✻

CAMERA WINDOW **(A7)**
I045 ✻

A8 = B-COVER ASSY

B-COVER **(A8)**
I047 ✻

MAGNET **(A8)**
I048 ✻

SLIDE BEZEL
I007

BEZEL COVER
I006

CAMERA MODULE
I025

SCREW 1.8x7.0
FE T6+
I042

BUTTON JOYSTICK
I014

TYPE LABEL
(LEVEL 3&4 ONLY)
I046

GSM PA CAN
I022

BB UNISHIELD
(LEVEL 3&4 ONLY)
I026

WCDMA PA CAN
I021

WLAN BT
SHIELD CAN
I020

DOMESHEET
I023

ENGINE MODULE
(NOT SUPPLIED)
I024

LCD AM 176x208
I017

A1= A-COVER ASSEMBLY
A2= SLIDE ASSEMBLY
A3= T9 KEYMAT ASSEMBLY
A4= DISPLAY FRAME
    ASSEMBLY
A5= HDD ASSEMBLY
A6= D-COVER ASSEMBLY
A7= ANTENNA COVER
    ASSEMBLY
A8= B-COVER ASSY

✻ = only available as
    assembly

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6. SPARE PARTS LIST

Please replace this page (placeholder) with the 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 on NOL have to be checked on daily basis.

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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 AC-4 Small and lightweight charger for fast charging of your phone battery.
	Internal Battery BL-5c Inserted under the back cover, this Li-Ion 970 mAh battery provides power in a lightweight package.
	Headset HS-28 Comfortable earphones combined with excellent audio quality provide a pleasurable listening experience. Control your music and calls remotely, and use it together with compatible headphones of your own choice. Available in Nokia N91 sales package.
	SS-15X Camera removal tool. One side is for disassembly, the other side for assembly.
	DKE-2 USB Cable

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	SS-93 Opening Tool
	RJ-85 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

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8. SW-UPDATE

Flash Concept – (Point of Sales)

To use the FLS-4S Flash Dongle you should follow the user's guide inside the sales package. Always check for the latest version of flash software, which is available on <u>NOKIA Online</u>.

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9. DISASSEMBLY INSTRUCTION

1. You need the tools shown.

2. Protect the window with a plastic film.

3. Also protect the CAMERA WINDOW with a plastic film.

4. Unlock and remove the B-COVER ASSY.

5. Slightly release the clips of the ANTENNA COVER ASSEMBLY on both sides.

6. Now lift off the ANTENNA COVER ASSEMBLY.

7. Remove the screws in the order shown.

8. Carefully unlock the clips on both sides of the assembly.
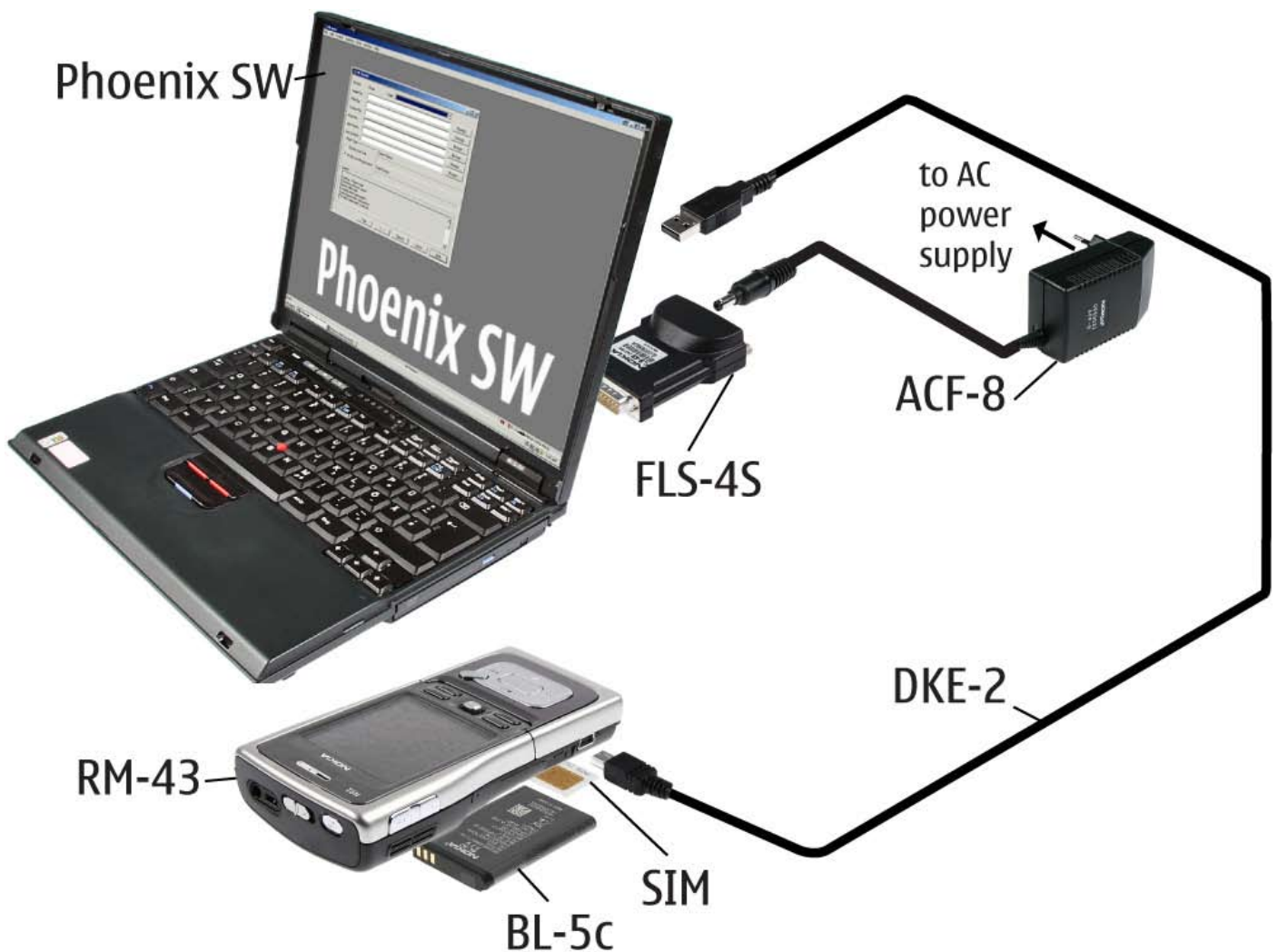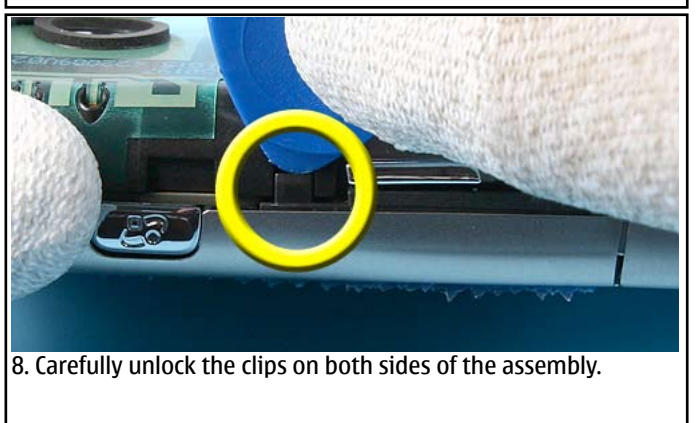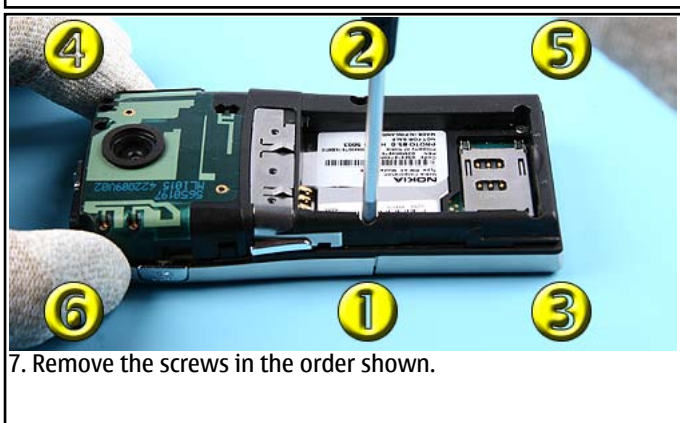
9. Open the assembly before continuing.

10. Push down the KEYMAT while lifting of the SLIDE ASSEMBLY.

11. Protect the inner side window with a plastic film.

12. Protect the LCD with a plastic film, too.

13. Pull out the VOLUME KEY HARDTOP...

14. ...and the MENU KEY HARDTOP.
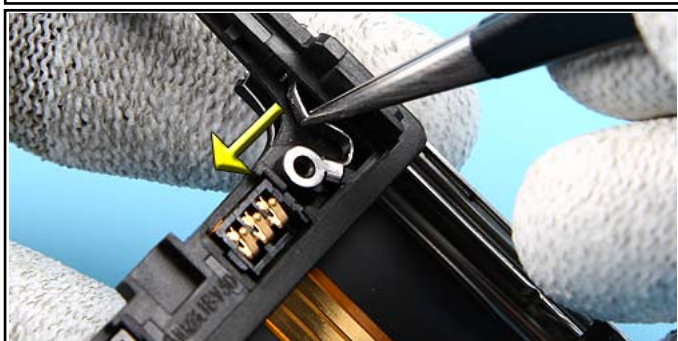
15. Unlock the RAIL SPRING L.

16. Pull it out carefully with tweezers.

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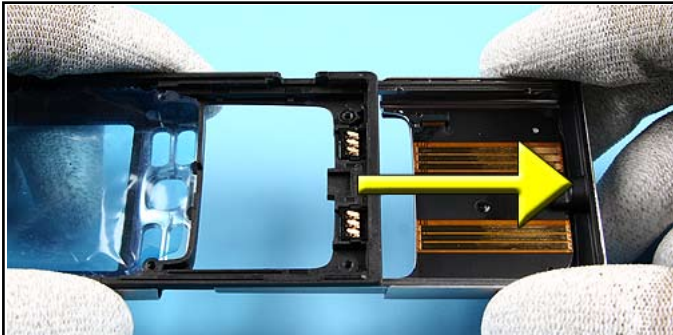
17. Now, the SLIDE ASSEMBLY isn't fixed anymore and can be removed easily.

18. Push out both SLIDE CONNECTOR POGOs .

19. Carefully release the adhered SLIDE BEZEL as shown.

20. Remove the SLIDE BEZEL carefully.

21. Remove the adhesive residue.
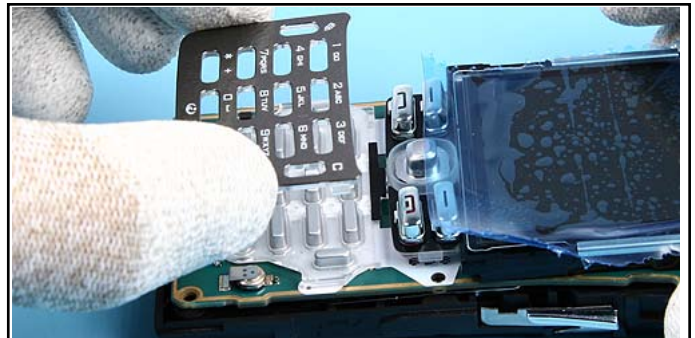
22. Remove the BEZEL COVER.

23. Open the LCD flex connector.

24. Lift up the LCD.

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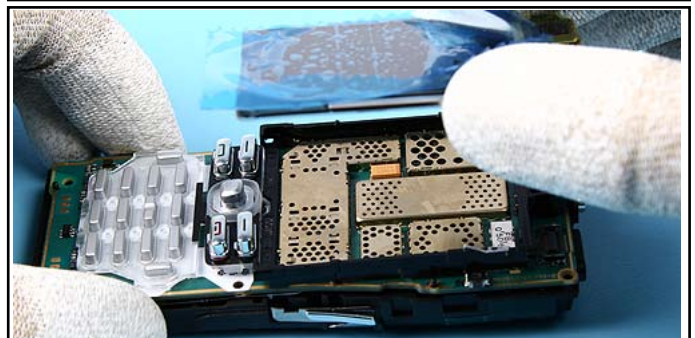
25. Remove the DISPLAY FRAME ASSEMBLY.

26. Note the grounding clips of the DISPLAY FRAME ASSEMBLY when removing the EARPIECE.

27. Lift up and remove the EARPIECE with tweezers carefully.
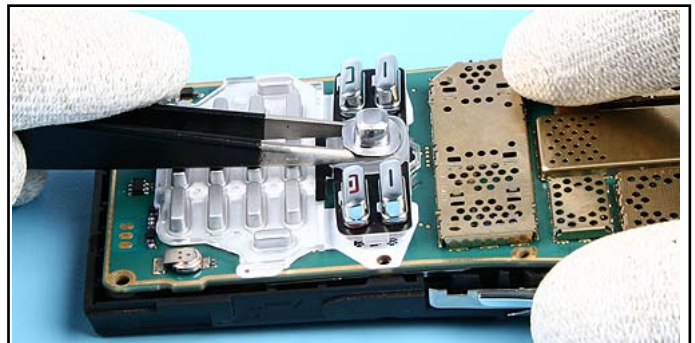
28. Use the tweezers when lifting off the BUTTON JOYSTICK.
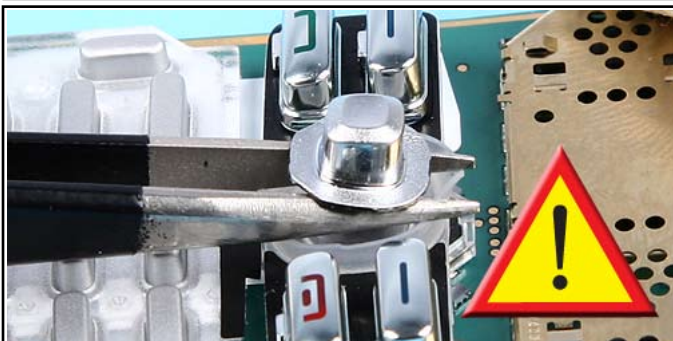
29. Take care of the T9 KEYMAT ASSEMBLY.
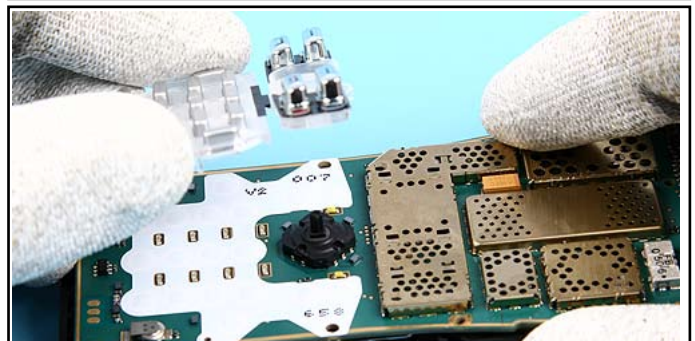
30. Lift up the T9 KEYMAT ASSEMBLY.
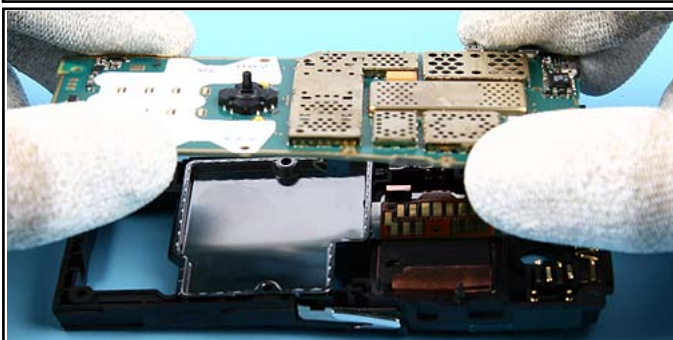
31. Remove the ENGINE MODULE.

32. Use an A-COVER as support when removing the CAMERA MODULE.

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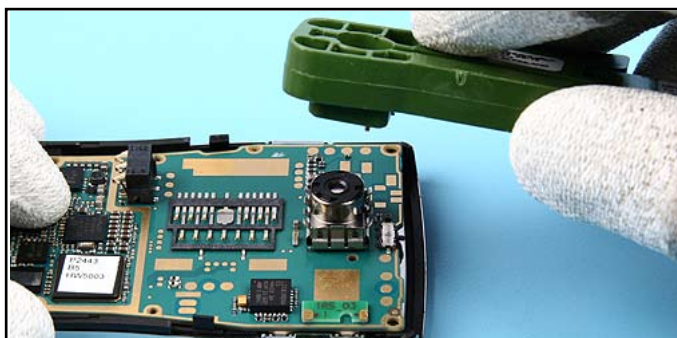
33. Position the SS-15 Camera removal tool and grip it.
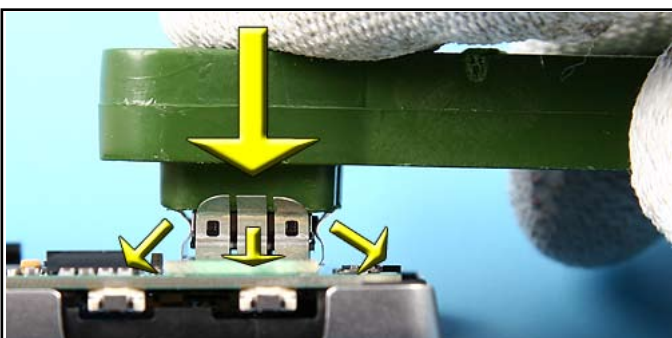
34. Pull out the CAMERA MODULE after the clips are released.

35. Remove the VIBRA ASSY.
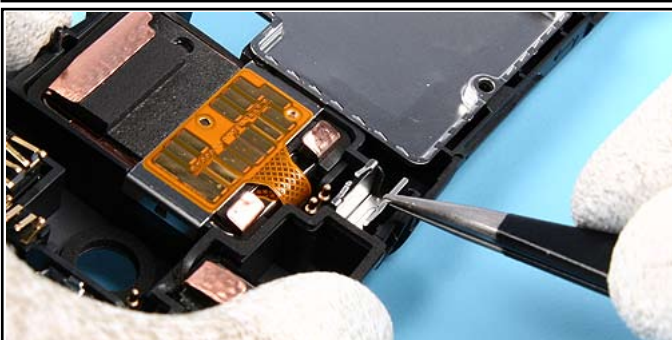
36. Pull out the VIBRA SHIELD. Mind the grounding clips.
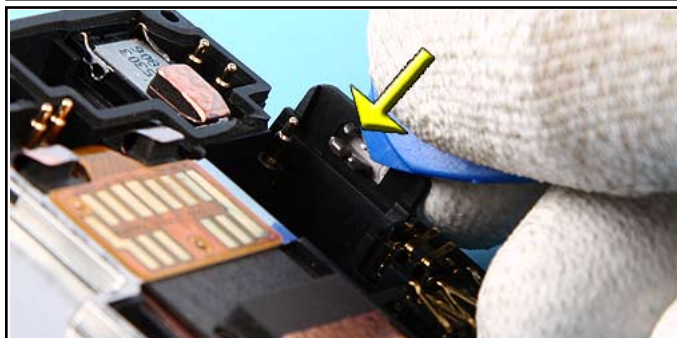
37. Unlock and remove the HOLD SWITCH HANDLE with the SRT-6.

38. Lift the 3,5 AUDIO JACK and remove it.
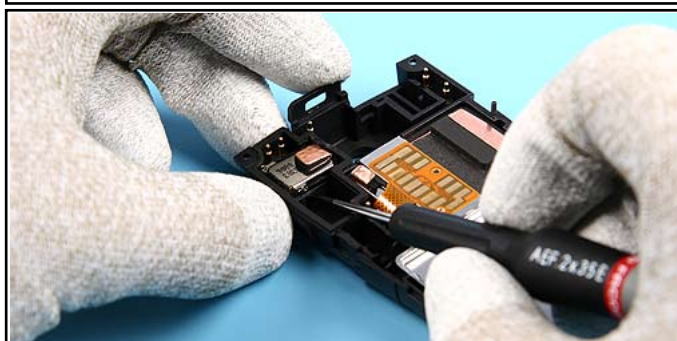
39. Use the slotted screwdriver to release the IHF SPEAKER.
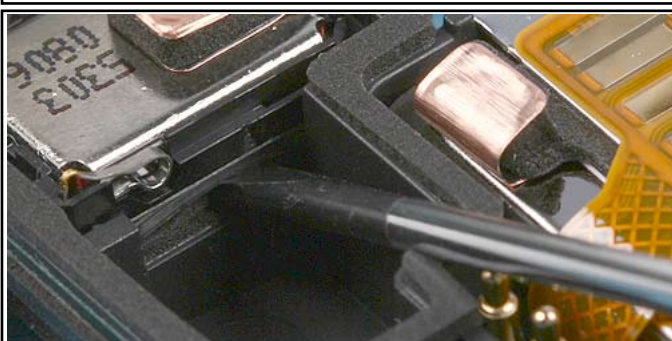
40. Note not to damage the speaker adhesive.

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41. Carefully remove the IHF SPEAKER. Do not touch the menbrane.
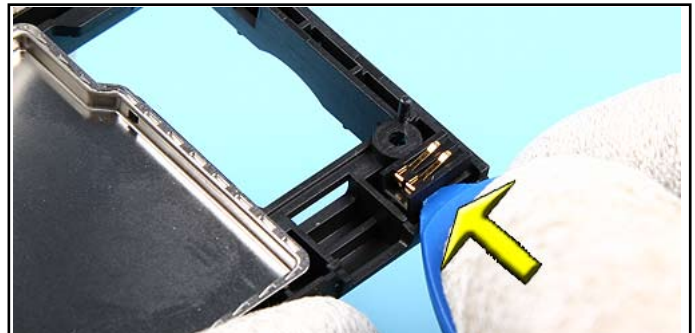
42. Unlock the SPACER FOR DC JACK carefully, prevent bending the spring contacts.
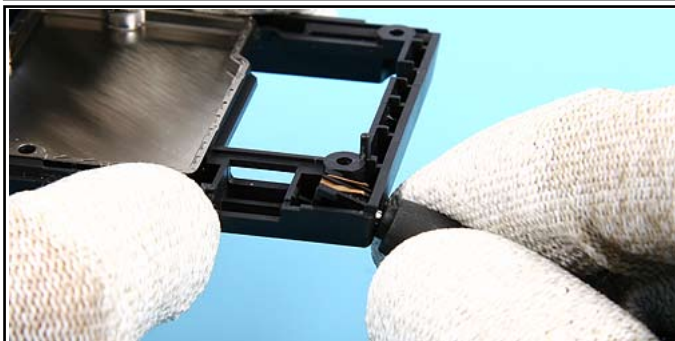
43. Use the DC Plug to lever out the DC JACK first.
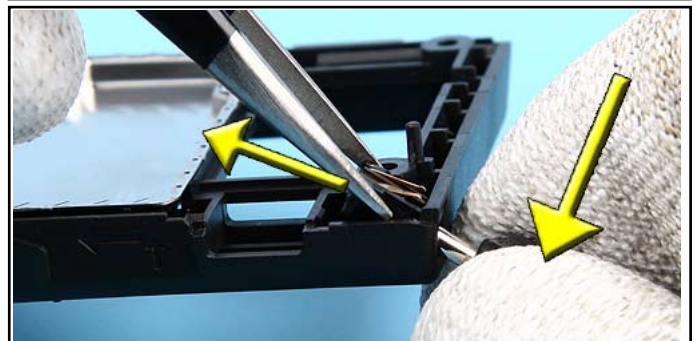
44. Then pull it out with the tweezers.

45. Unlock the BB UNISHIELD.
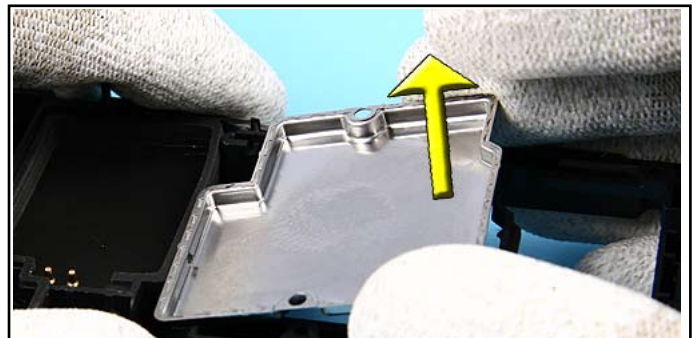
46. Turn the assembly and lift up the shield.
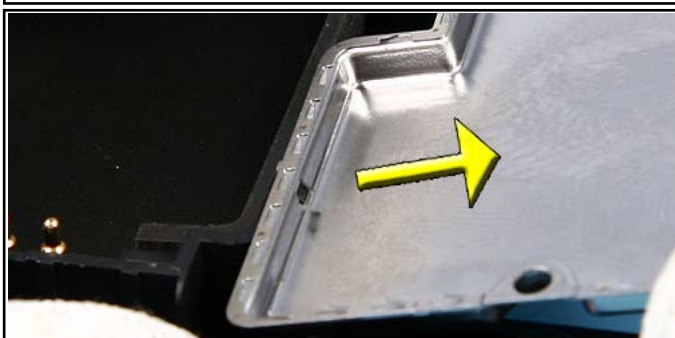
47. Now, move the shield in direction shown.
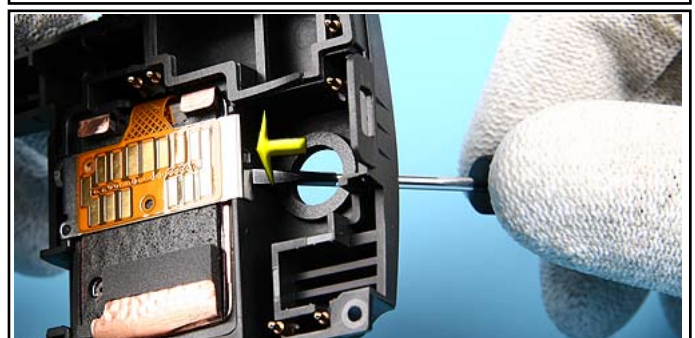
48. Unlock the HDD ASSEMBLY by using a slotted screwdriver.

49. Note not to destroy the fixing joint.
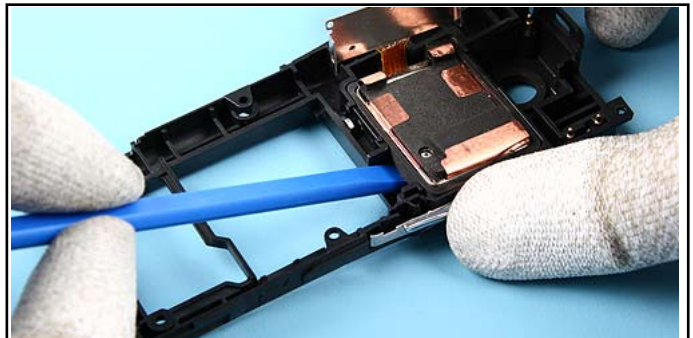
50. Lever out the HDD ASSEMBLY.

51. Lift out the HDD ASSEMBLY. Never remove it by pulling at the flex foil.

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10. ASSEMBLY INSTRUCTION
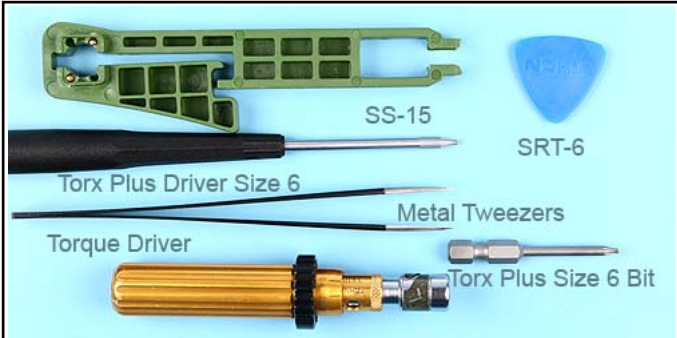
1. You need the tools shown.
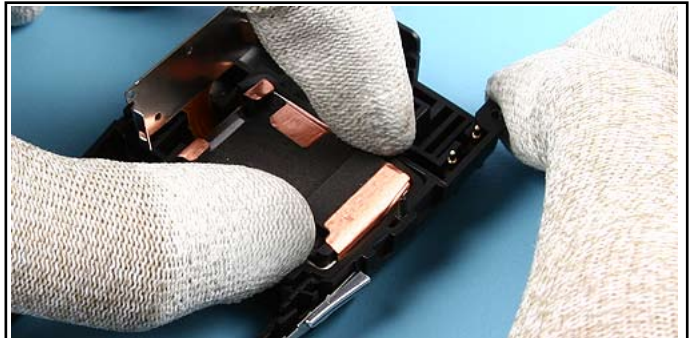
2. Remove the protection tape from the adhesive. Insert the HDD ASSEMBLY and fix it. Do not push down the conductive tape .
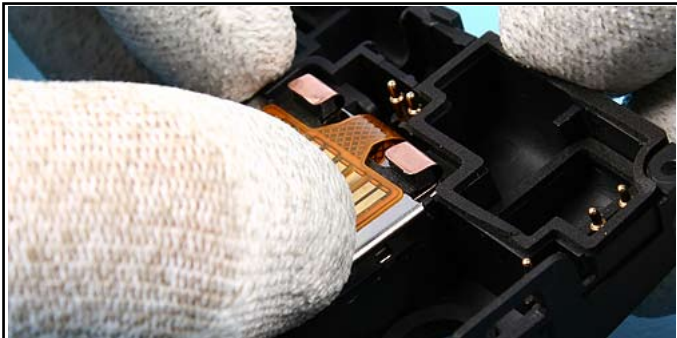
3. Flip the connector plate of the HDD ASSEMBLY. Do not touch the pads. Fix the connector plate.
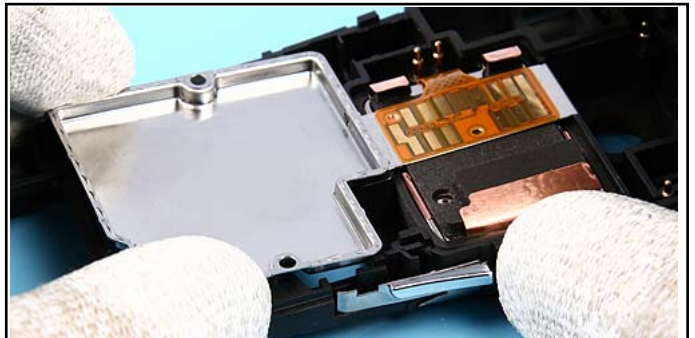
4. Position the BB UNISHIELD.
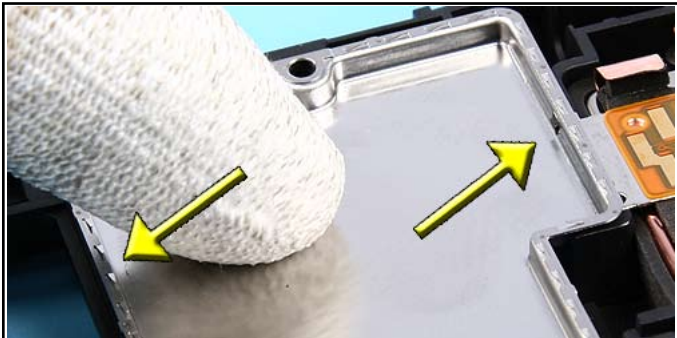
5. Note that both snaps are fixed properly.

6. Place the DC JACK.
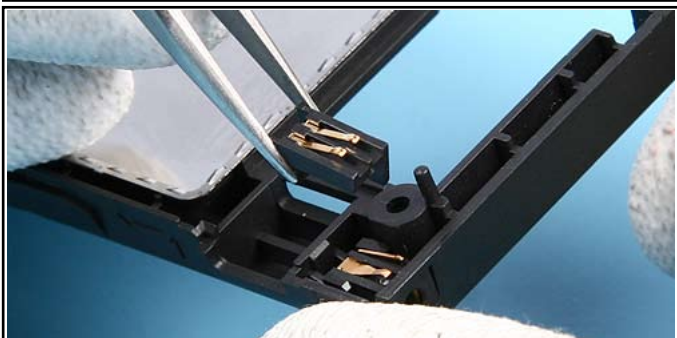
7. Complete the DC Jack with the SPACER FOR DC JACK.

8. Push it into its place slightly.

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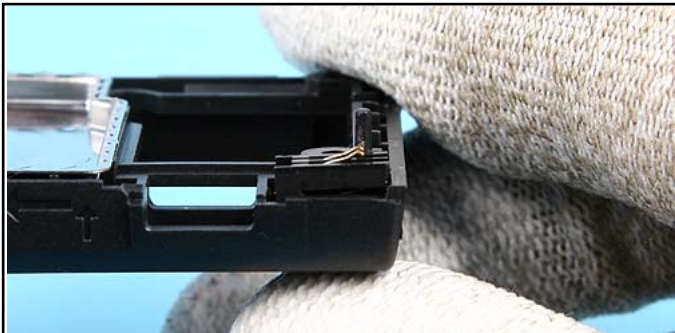
9. Check the SPACER FOR DC JACK for correct positioning as shown.
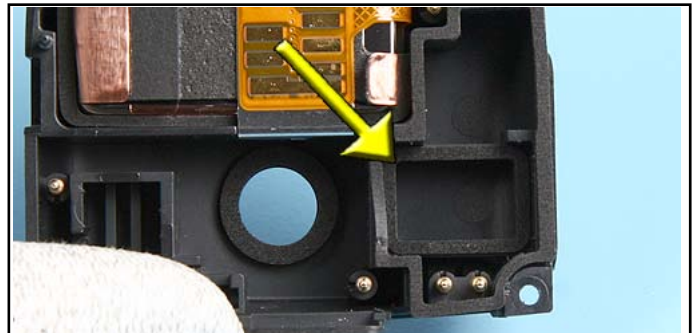
10. Check the IHF ADHESIVE. Replace it if destroyed or missing.

11. Place the IHF SPEAKER. Always use a new IHF SPEAKER GASKET when replacing the speaker.
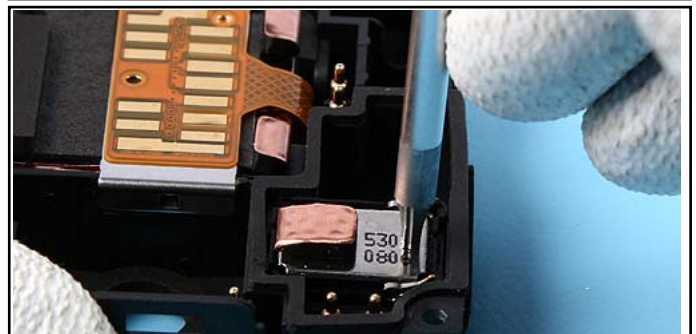
12. Push the IHF SPEAKER slightly into its place. Note the spring contacts.
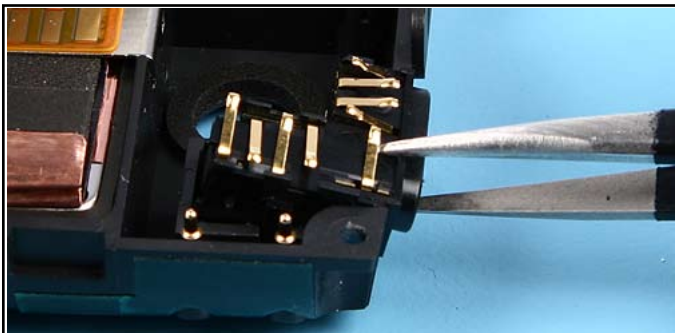
13. Insert the 3,5 AUDIO JACK into its compartment.
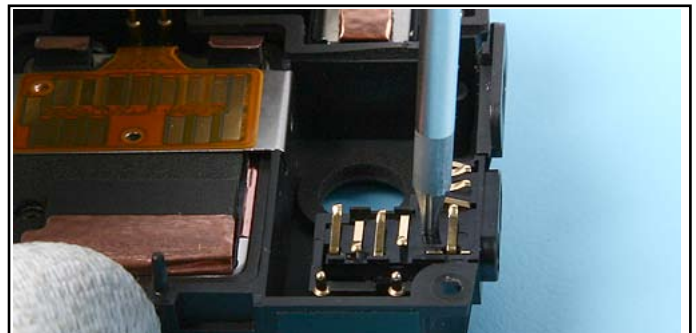
14. Note not to damage the spring contacts when pushing it into its place.

15. Mind the correct position when placing the HOLD SWITCH HANDLE.
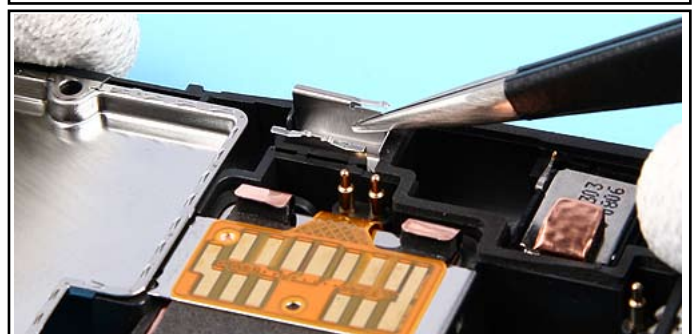
16. Insert the VIBRA SHIELD.

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17. Push it into its place.

18. Place the VIBRA ASSY.
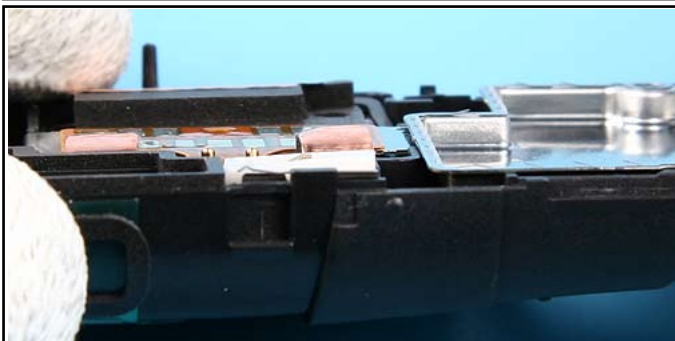
19. Always check the correct position as shown here before continuing.

20. Use the A-COVER as support when replacing the CAMERA MODULE.
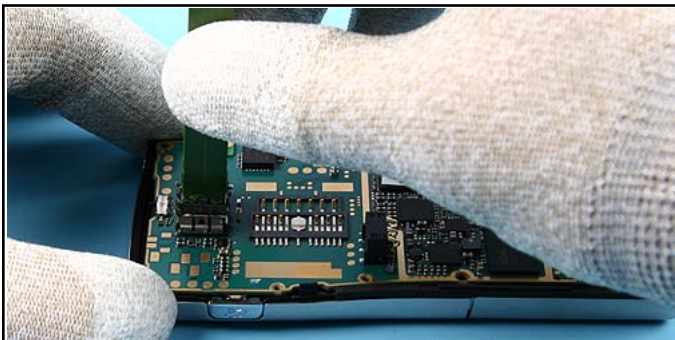
21. Use the SS-15 to replacing the CAMERA MODULE.
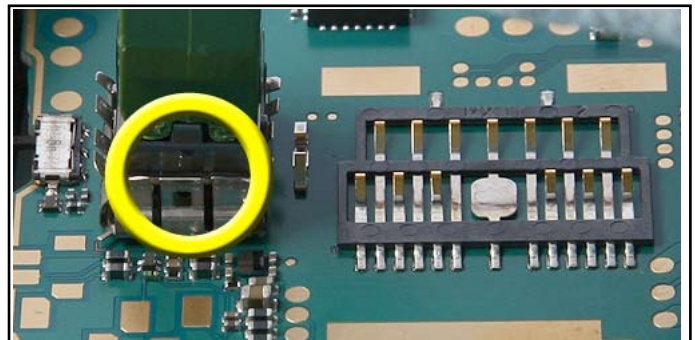
22. Mind the guiding of the camera socket.
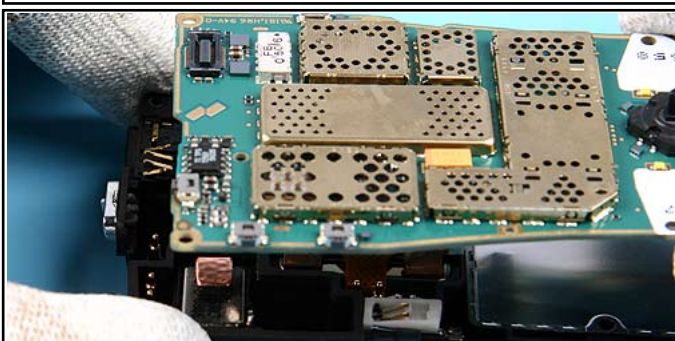
23. Place the ENGINE MODULE into the D-COVER ASSEMBLY .
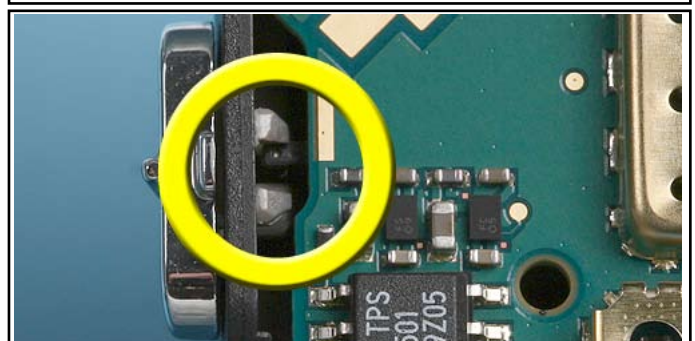
24. Note the correct positioning of the HOLD SWITCH HANDLE.
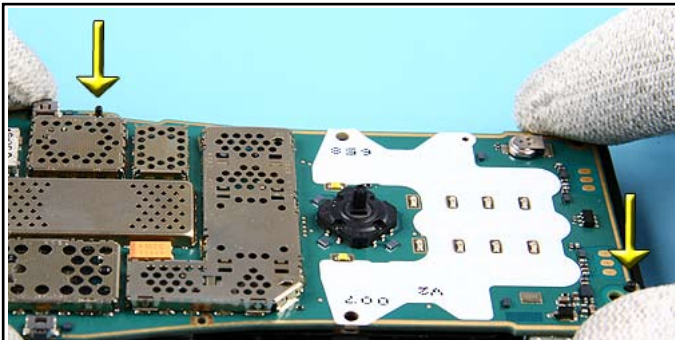
25. Note the guiding pins for correct placement of the ENGINE MODULE.
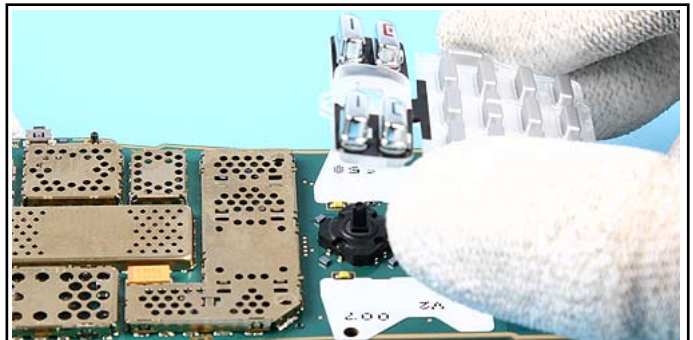
26. Replace the T9 KEYMAT ASSEMBLY.
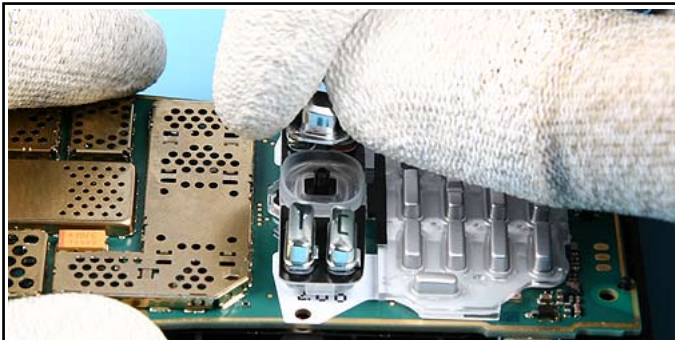
27. Fix the BUTTOM JOYSTICK.
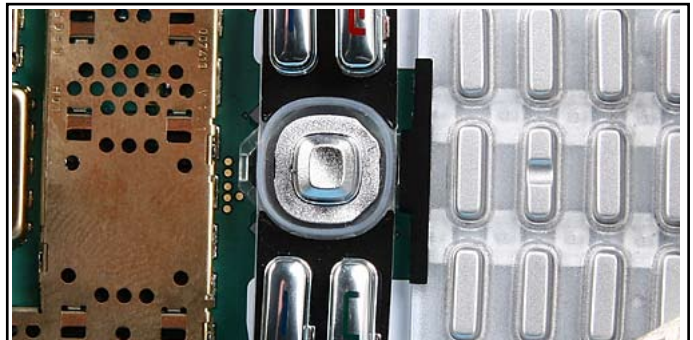
28. Mind the correct placement as shown.

29. Place the Earpiece into the Display Frame Assy. Do not bend the grounding clips. Mind the guiding pin of the EARPIECE.
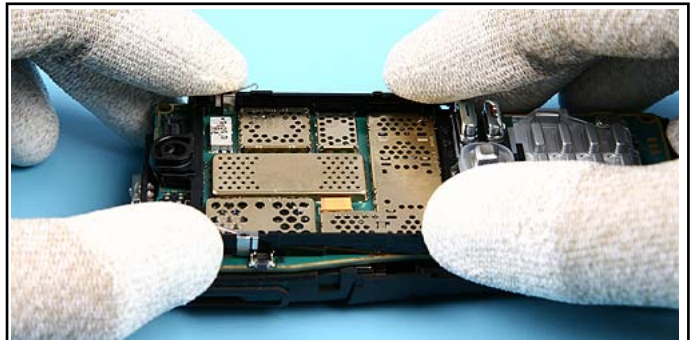
30. Now fit the DISPLAY FRAME ASSEMBLY over the ENGINE MODULE.
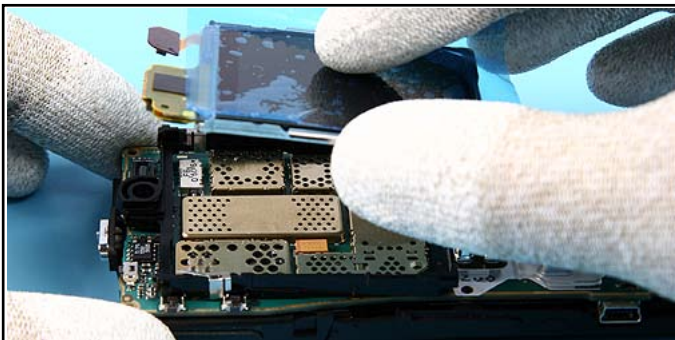
31. Position the LCD and fix it.
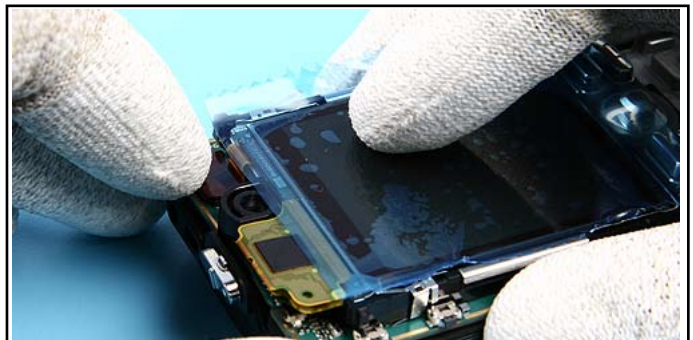
32. Close the display flex connector.

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33. Note the correct position of the flex connector before continuing.

34. Always use a new adhesive when fitting the SLIDE BEZEL.

35. Align and fix it.

36. Insert the two SLIDE CONNECTOR POGOs.
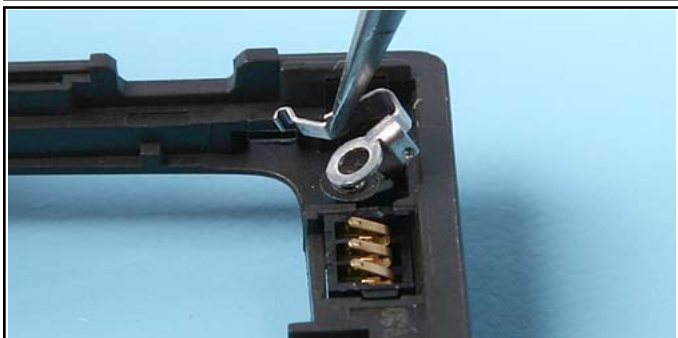
37. Insert the new RAIL SPRING L.
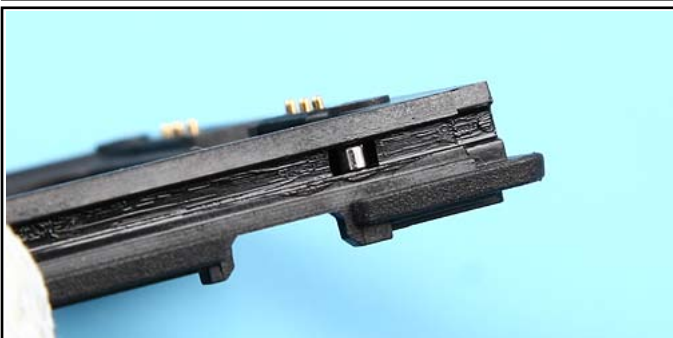
38. Note the correct position before continuing.

39. Place the VOLUME KEY HARDTOP.
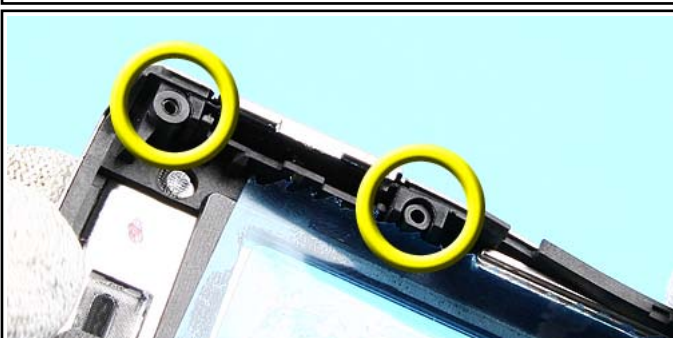
40. The correct positioning is shown here.

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41. Place the MENU KEY HARDTOP.
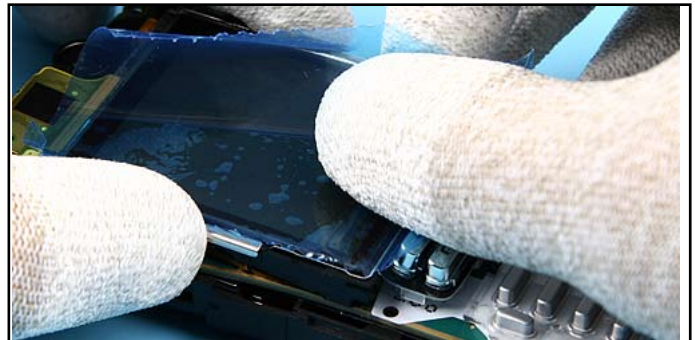
42. Remove the plastic film from the LCD.
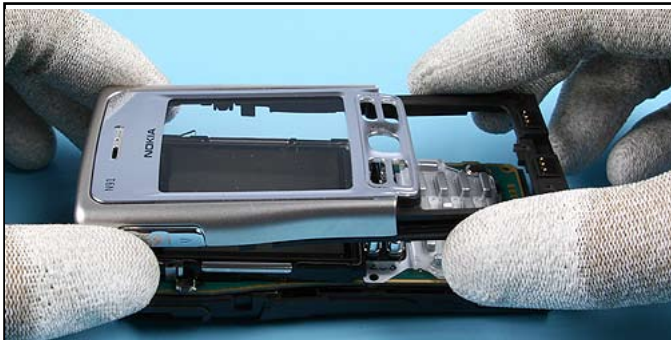
43. Now place the SLIDE ASSEMBLY.

44. Lock the clips.

45. Note that both clips are locked properly.
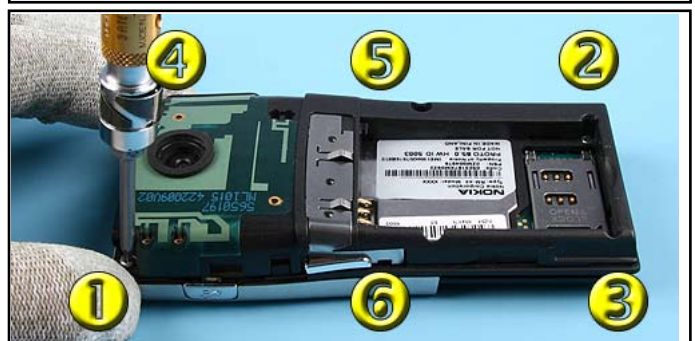
46. Insert the screws. To prevent damaging the plastic threads, turn the screws slightly left first. Then tighten them in the shown order with a torque of 30 Ncm.

47. Place the BEZEL COVER at the shown side first.

48. Now push down the other side slightly.

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49. Check that the MENU KEY HARDTOP....

50. ...and the VOLUME KEY HARDTOP operates.

51. Place a piece of plastic film while assembling the SLIDE AS-SEMBLY. Remove the plastic film carefully while shifting the parts together .

52. Check the functionality of the RAIL SPRING. The SLIDE ASSEM-BLY must be stop safely at the end position.

53. Place the ANTENNA COVER ASSEMBLY beginning from the top.

54. Note the correct positioning of the ANTENNA COVER ASSEMBLY.
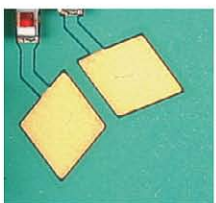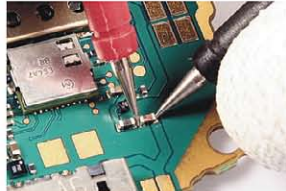
55. Assemble the B-COVER ASSEMBLY.

56. Check the windows for cleanness.

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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.

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12. QUICK TROUBLE SHOOTER PART 1

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13. QUICK TROUBLE SHOOTER PART 2

CHARGING

FUSE F2000

LEVEL 2 ONLY
$\Omega \approx 0\Omega$

ENGINE MODULE I024

DC JACK (A6) I035

SPACER FOR DC JACK (A6) I034

LEVEL 2 ONLY
X2070

ENGINE MODULE I024

Service Level 3/4

EARPIECE

EARPIECE (A4) I019

ENGINE MODULE I024

Service Level 3/4

DISPLAY

X4401

ENGINE MODULE I024

LCD AM 176X208 I017

Service Level 3/4

SIM

ENGINE MODULE I024

X2700

Service Level 3/4

14. QUICK TROUBLE SHOOTER PART 3

MICROPHONE

SLIDE CONNECTOR POGO (A1)
I004

SLIDE ASSEMBLY
(A2)

ENGINE MODULE
I024

MICROPHONE
I012

PWB FLEX (A2)
I010

180°

Service Level 3/4

MEDIA KEYMAT

SLIDE CONNECTOR POGO
I004

SLIDE ASSEMBLY
(A2)

ENGINE MODULE
I024

KEYMAT MEDIA
I009

PWB FLEX (A2)
I010

180°

Service Level 3/4

ITU KEYMAT

KEYMAT (A3)
I015

T9 KEYMAT ASSEMBLY
(A3)

DOMESHEET
I023

ENGINE MODULE
I024

Service Level 3/4

CAMERA

180°

CAMERA MODULE
I025

X1470

ENGINE MODULE
I024

Service Level 3/4

15. QUICK TROUBLE SHOOTER PART 4

MENU KEY

MENU KEY HARDTOP (A1)
I002

S4403 — LEVEL 2 ONLY
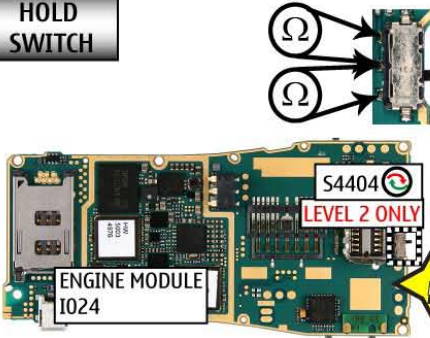
ENGINE MODULE
I024

open / ≈ ∞ Ω / pressed / ≈ 0 Ω

Service Level 3/4

HOLD SWITCH

S4404 — LEVEL 2 ONLY

HOLD SWITCH HANDLE (A6)
I040

ENGINE MODULE
I024

≈ ∞ Ω / ≈ 0 Ω

Service Level 3/4

JOYSTICK

BUTTON JOYSTICK
I014
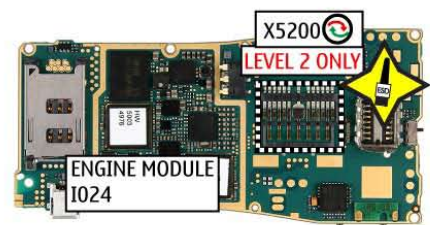
S4417 — LEVEL 2 ONLY

ENGINE MODULE
I024
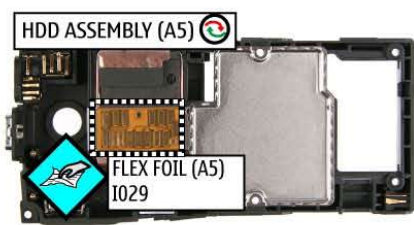
Service Level 3/4

HDD

X5200 — LEVEL 2 ONLY

HDD ASSEMBLY (A5)

ENGINE MODULE
I024

FLEX FOIL (A5)
I029

Service Level 3/4

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16. QUICK TROUBLE SHOOTER PART 5

VIBRA

VIBRA ASSY (A6)
I036

ENGINE MODULE
I024

Service Level 3/4

USB

ENGINE MODULE
I024

X2001
LEVEL 2 ONLY

Service Level 3/4

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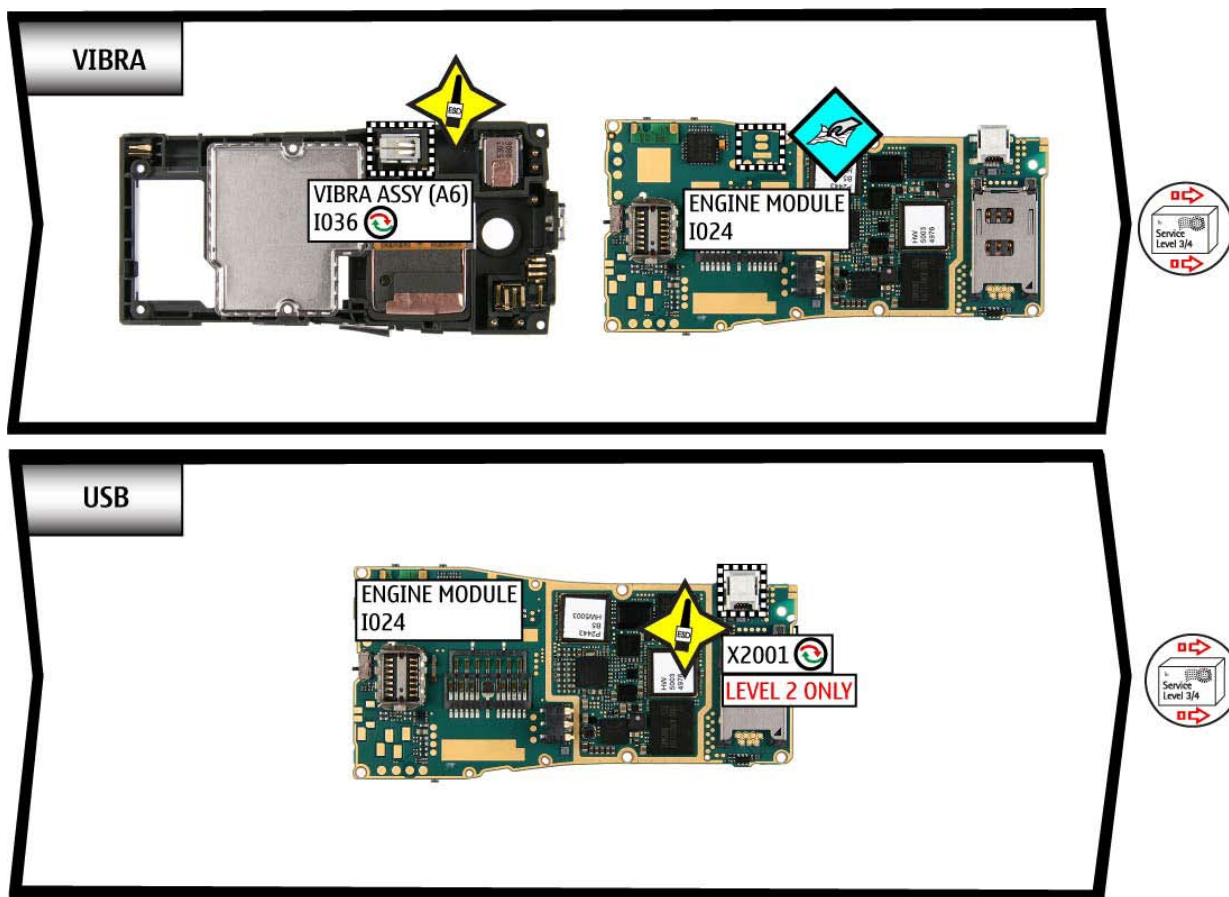
17.CAMERA GONOGO TEST

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

- Unlock the Keypad
- Press the red receiver button to reach the Home Menu
- Press the Menu Key   and select **Cameras**
- Press down the Joystick 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 **Options**
- Select **Go to Media gallery**
- Select the picture you want to delete

  Select **Options**

  Select **Delete**

  Select **Yes**

If the test is failed see Quick Trouble Shooter.

18. BLUETOOTH GONOGO 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.

Reference unit; Bluetooth activated
Test unit

Settings on the test unit:

- Unlock the Keypad
- Press the red End key to reach the Home Menu
- Press the Menu Key   and select **Phonebook**

  If phone and SIM memory is empty, create one new entry.
- **Select** an entry
- Select **Options**
- Select **Send**
- Select **Bluetooth**

  Search window appears and shows all Bluetooth units in range.

  Choose one unit and press **Select**

  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!

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19. 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.
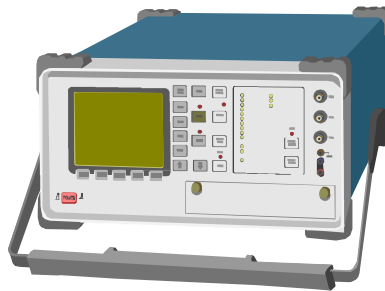
Mobile Phone Tester

20. 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/