SERVICE MANUAL
Level 1&2

NOKIA 6600i SLIDE

RM-570

Transceiver characteristics

Band:
GSM quadband 850/900/1800/1900 MHz
WCDMA 850/2100 MHz

Display:
2.2" TFT QVGA, 320 x 240 pixels, 16.7 million colours

Camera:
5.0 Mpix with flash

Operating System:
Series 40 SPR7.2

Connections:
Bluetooth 2.0 + EDR with stereo audio, microUSB

Transceiver with BL-4U battery pack

Talk time	Standby	Note
Up to 4h (GSM) Up to 3 h (WCDMA)	Up to 350 h (GSM) Up to 300 h (WCDMA)	Depends on network parameters and phone settings

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1. CHANGE HISTORY

Status	Version No.	Date	Comments
Draft	0.1	26.2.2009	First draft
Approved	1.0	14.5.2009	First approved version Changes compared to 6600 slide: - Exploded view updated - camera removal tool SS-209 is used in camera disassembly - SS-93 tool is used in display disassembly - new instructions for antenna disassembly - 5 MP camera module

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:

CMO Operation & Logistics
Training and Vendor Development
Multimedia Creation & Support
mailto:Service.Manuals@nokia.com

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

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The availability of particular products may vary by region.

IMPORTANT

This document is intended for use by qualified service personnel only.

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3. 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:

3.1 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.

3.2 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.

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4. ESD PROTECTION

Nokia requires that service points have sufficient ESD protection (against static electricity) when servicing the phone.
Any product of which the covers are removed must be handled with ESD protection. The SIM card can be replaced without ESD protection if the product is otherwise ready for use.
To replace the covers ESD protection must be applied.
All electronic parts of the product are susceptible to ESD. Resistors, too, can be damaged by static electricity discharge.
All ESD sensitive parts must be packed in metallized protective bags during shipping and handling outside any ESD Protected Area (EPA).
Every repair action involving opening the product or handling the product components must be done under ESD protection.
ESD protected spare part packages MUST NOT be opened/closed out of an ESD Protected Area.
For more information and local requirements about ESD protection and ESD Protected Area, contact your local Nokia After Market Services representative.

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5. CARE AND MAINTENANCE

This product is of superior design and craftsmanship and should be treated with care. The suggestions below will help you to fulfil any warranty obligations and to enjoy this product for many years.

- Keep the phone and all its parts and accessories out of the reach of small children.
- Keep the phone dry. Precipitation, humidity and all types of liquids or moisture can contain minerals that will corrode electronic circuits.
- Do not use or store the phone in dusty, dirty areas. Its moving parts can be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When it warms up (to its normal temperature), moisture can form inside, which may damage electronic circuit boards.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the phone.
- Do not paint the phone. Paint can clog the moving parts and prevent proper operation.
- Use only the supplied or an approved replacement antenna. Unauthorised antennas, modifications or attachments could damage the phone and may violate regulations governing radio devices.

All of the above suggestions apply equally to the product, battery, charger or any accessory.

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6. BATTERY INFORMATION

Note: A new battery's full performance is achieved only after two or three complete charge and discharge cycles! The battery can be charged and discharged hundreds of times but it will eventually wear out.

When the operating time (talk-time and standby time) is noticeably shorter than normal, it is time to buy a new battery. Use only batteries approved by the phone manufacturer and recharge the battery only with the chargers approved by the manufacturer.

Unplug the charger when not in use. Do not leave the battery connected to a charger for longer than a week, since overcharging may shorten its lifetime.

If left unused a fully charged battery will discharge itself over time Temperature extremes can affect the ability of your battery to charge.

For good operation times with Ni-Cd/NiMh batteries, discharge the battery from time to time by leaving the product switched on until it turns itself off (or by using the battery discharge facility of any approved accessory available for the product).

Do not attempt to discharge the battery by any other means Use the battery only for its intended purpose.

Never use any charger or battery which is damaged.

Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes direct connection of the + and - terminals of the battery (metal strips on the battery) for example when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.

Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 15°C and 25°C (59°F and 77°F).

A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Batteries' performance is particularly limited in temperatures well below freezing.

Do not dispose batteries in a fire! Dispose of batteries according to local regulations (e.g. recycling).

Do not dispose as household waste.

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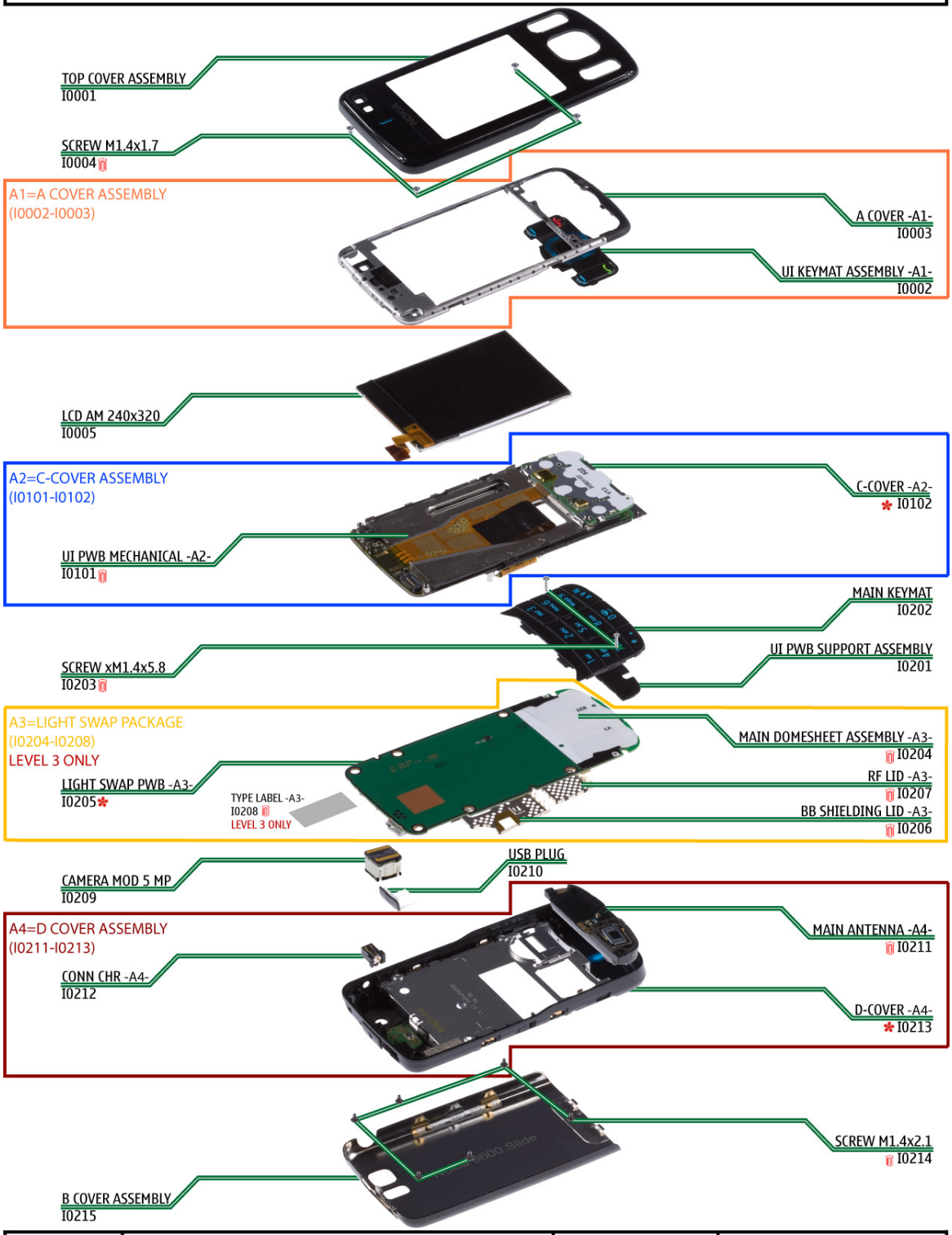
7. EXPLODED VIEW

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

6600i SLIDE RM-570 EXPLODED VIEW



Ver. 1.0		Only available as assembly	These parts can not be reused after removal

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8. SERVICE DEVICES

FLS-5 Flash device	**AC-8 Universal power supply**	**AC-4 Travel Charger**
BL-4U Internal battery	**SS-209 Camera removal tool**	**RJ-230 Soldering Jig**
CA-101 Service cable	**NMP Standard toolkit (v2)** For more information, refer to the Service Bulletin (SB-011) on NOKIA Online. Supplier or manufacturer contacts for tool re-order can be found in “Recommended service equipment” document on NOKIA Online.	

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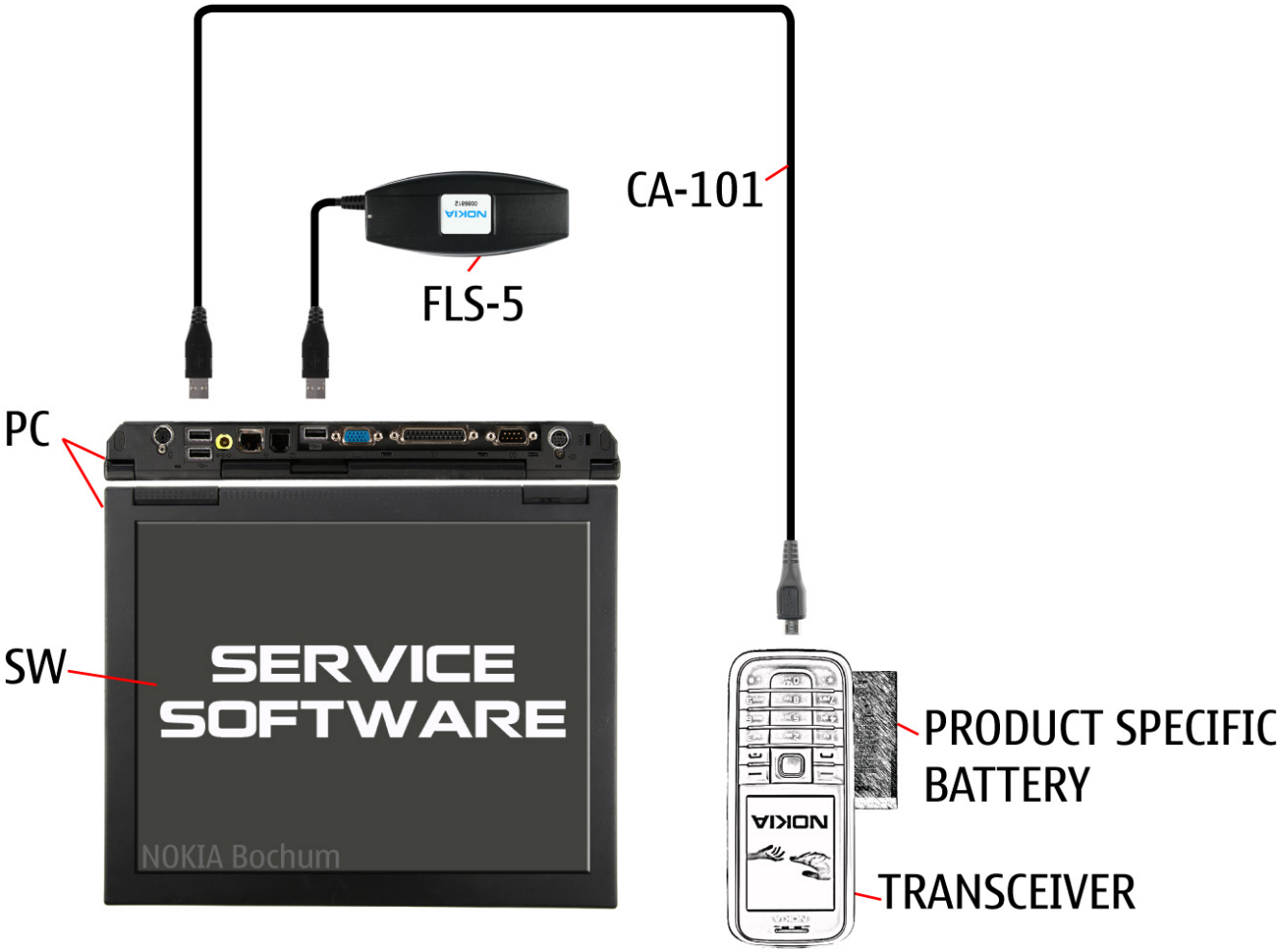
9. SW-UPDATE

Flash concept – (Point of Sales)

To use the FLS-5 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.



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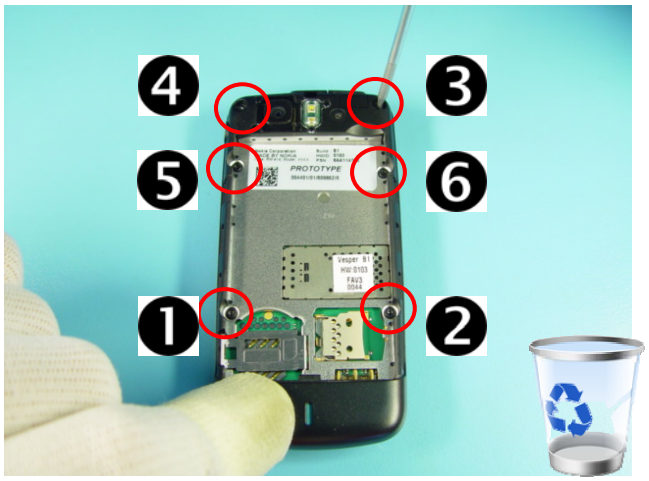
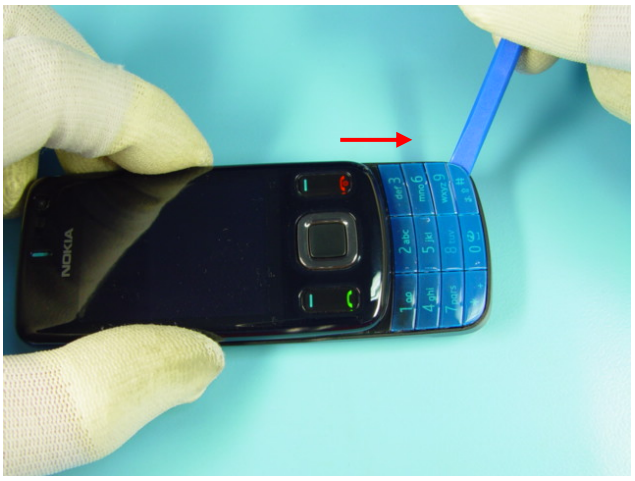
10. DISASSEMBLY INSTRUCTIONS

1) Release the BATTERY COVER.

2) Remove the BATTERY COVER.



3) Unscrew the six T4+ screws.



4) Start to release the MAIN KEYMAT with the SS-93.

5) Release the MAIN KEYMAT.

6) Release the MAIN KEYMAT from the other side as well.

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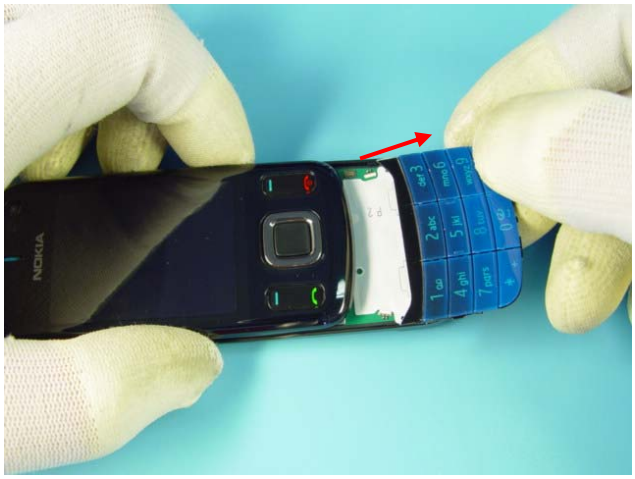
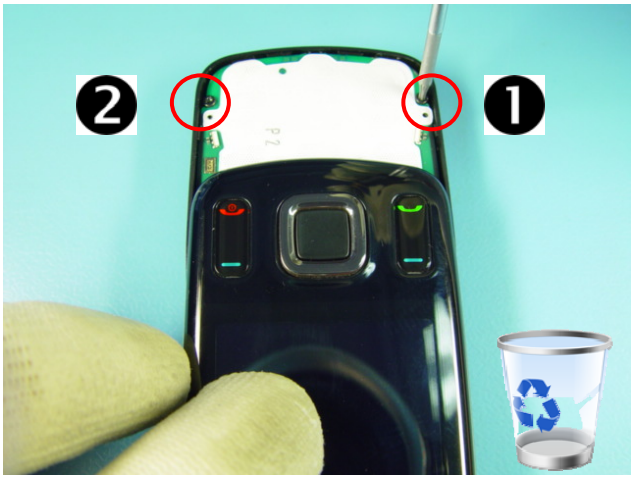
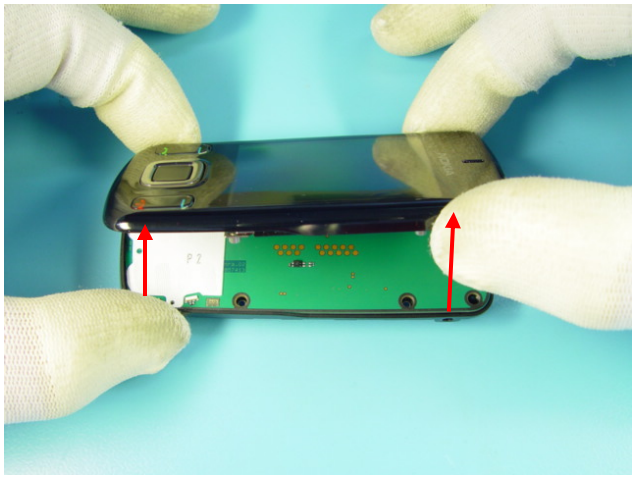


7) Remove the MAIN KEYMAT.

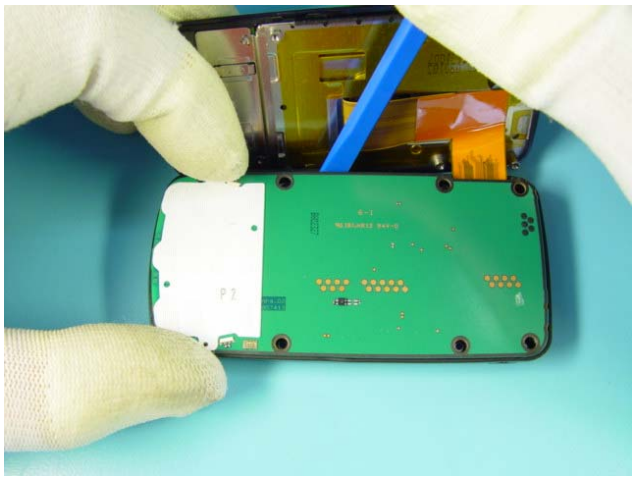


8) In the order shown, unscrew the two T4+ screws.

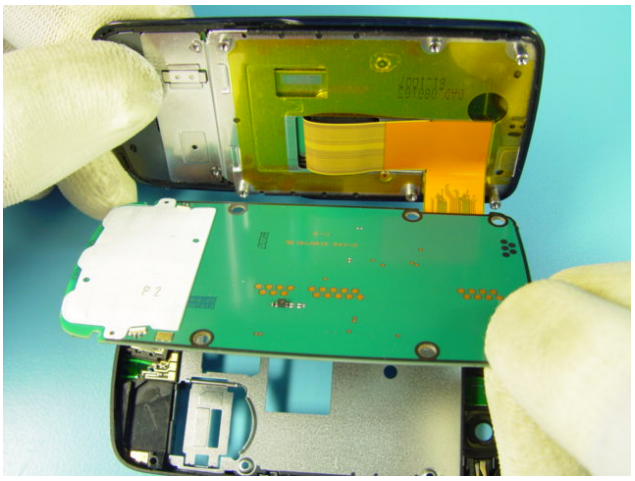


9) Lift up the C-COVER ASSY on one side.

10) Use the SS-93 and start releasing the PWB.



11) Release the PWB.



12) Remove the PWB together with the C-COVER ASSY.

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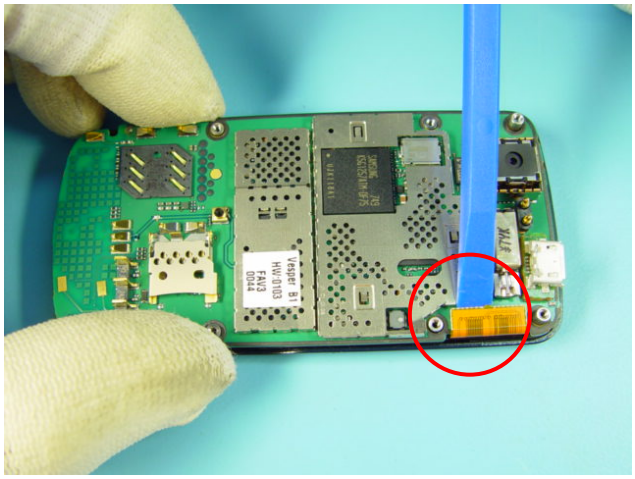
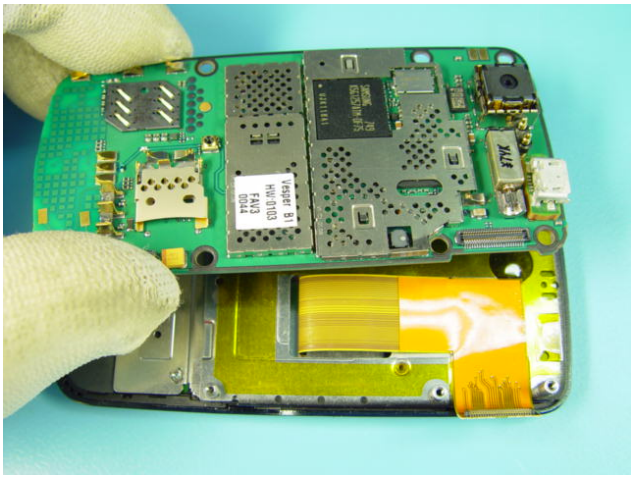
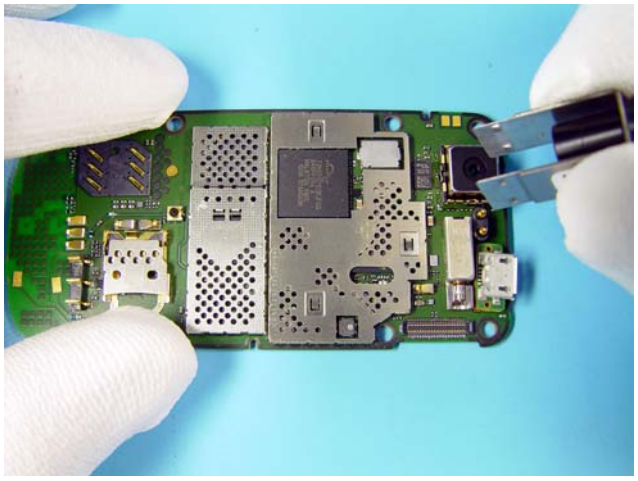


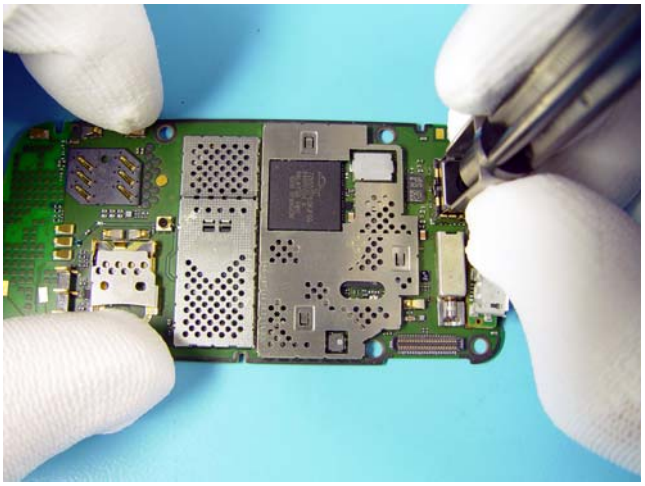
13) Open the MAIN FLEX ASSY connector.



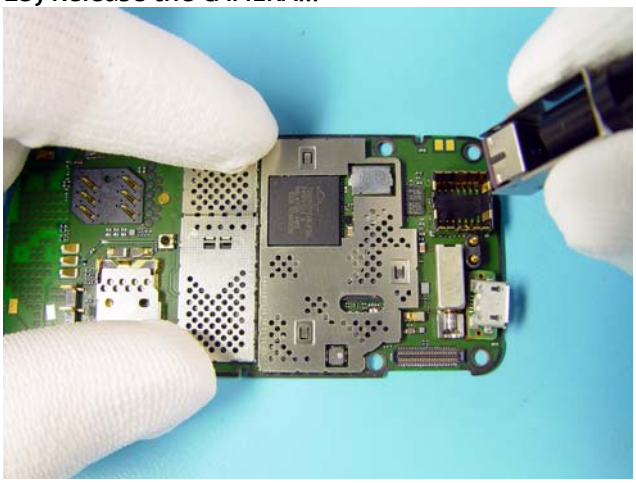
14) Remove the PWB.



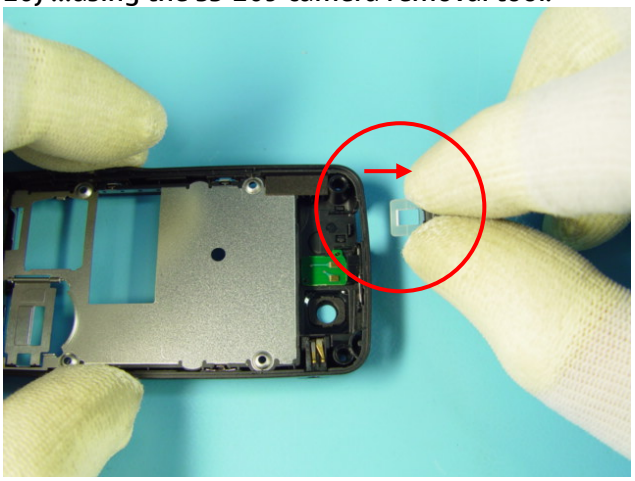
15) Release the CAMERA...



16) ...using the SS-209 camera removal tool.



17) Remove the CAMERA.



18) Remove the USB DOOR.

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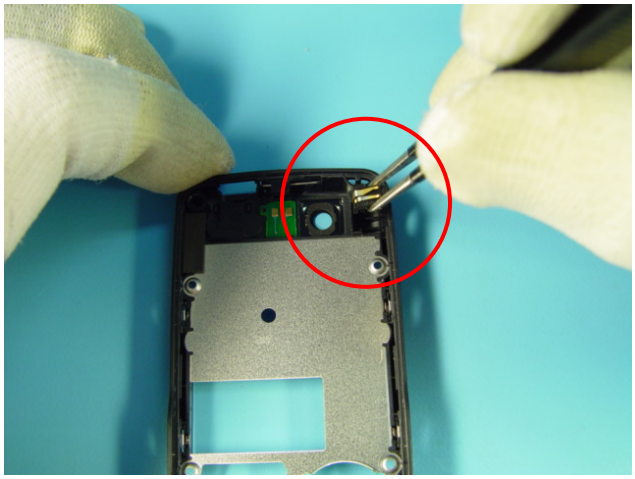
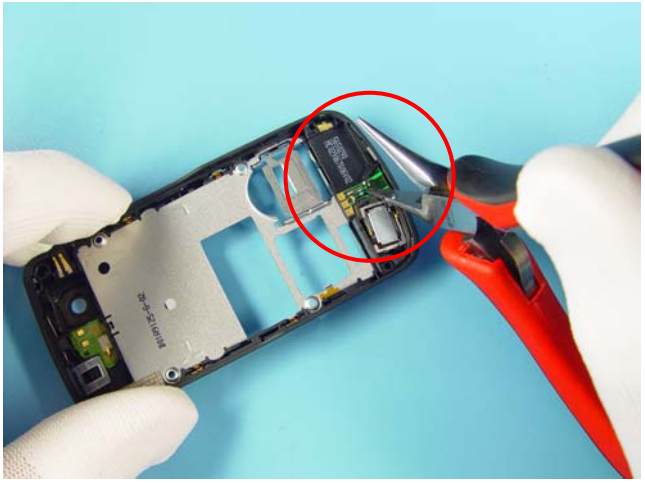
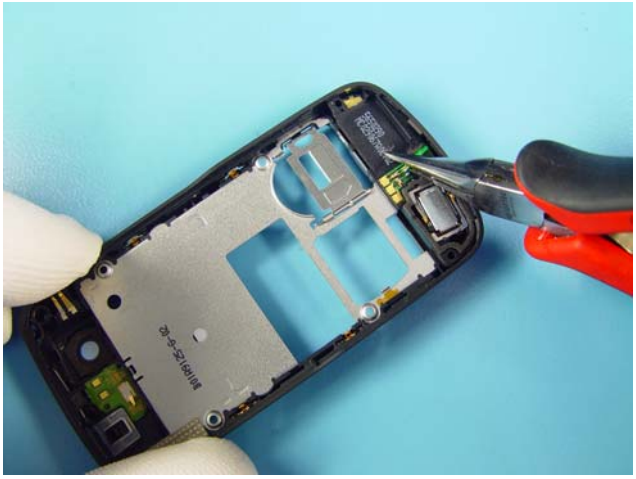


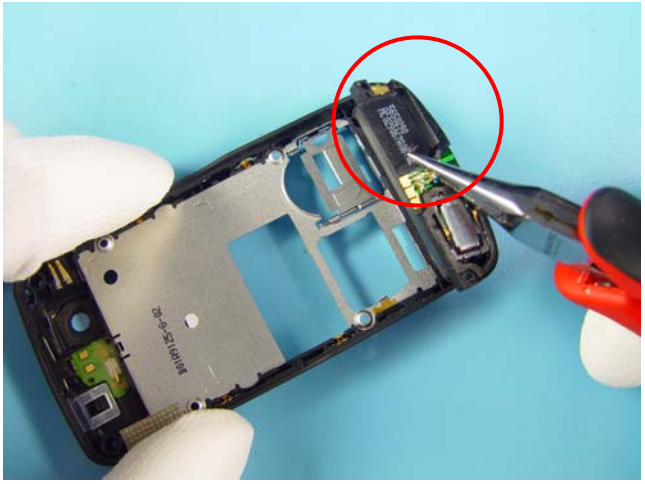
19) Remove the DC-JACK using tweezers.



20) Use flat-nose pliers and press the pliers into the middle of the MAIN ANTENNA module.

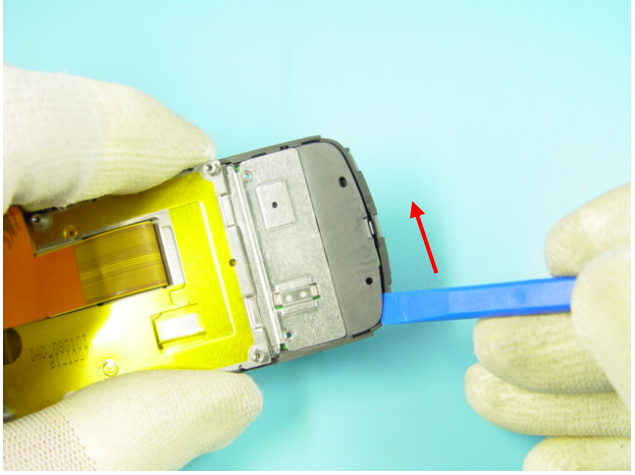


21) Change the angle of the flat nose pliers and press it further into the MAIN ANTENNA.



22) Twist and pull the MAIN ANTENNA module out of the D-COVER. You might need to use a little force.

23) Remove the MAIN ANTENNA module.



24) Release the UI PWB COVER with SS-93.

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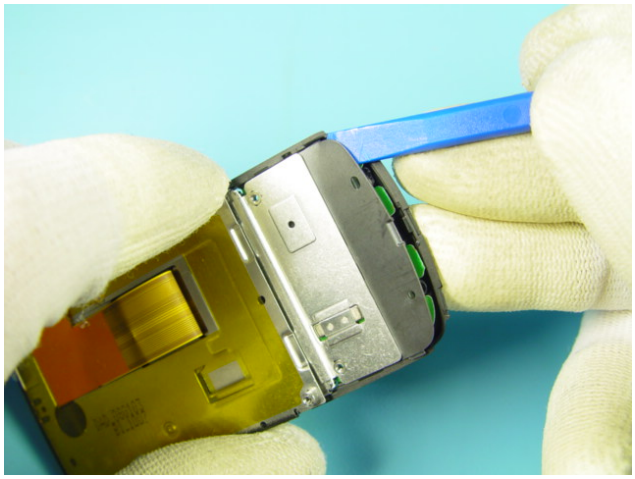
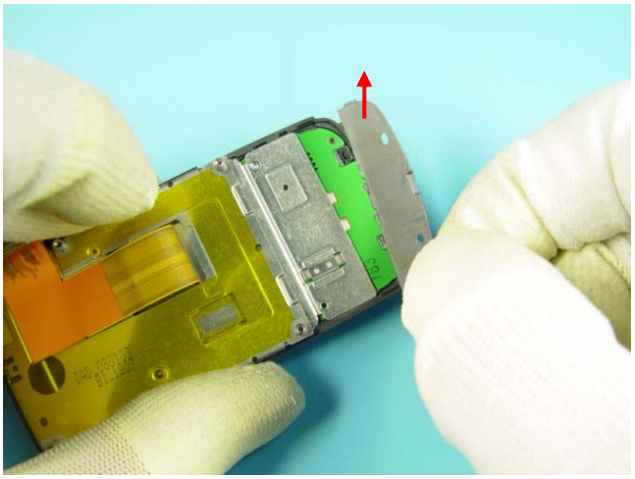
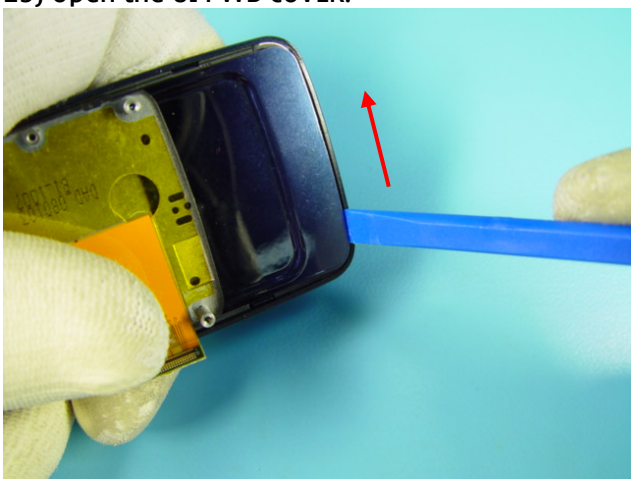


25) Open the UI PWB COVER.

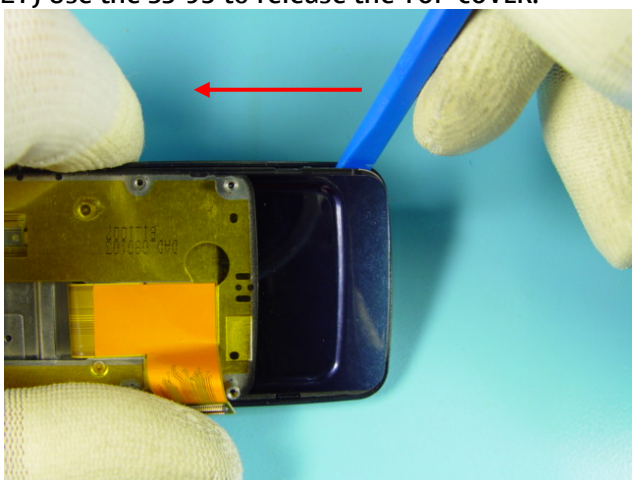


26) Remove the UI PWB COVER.

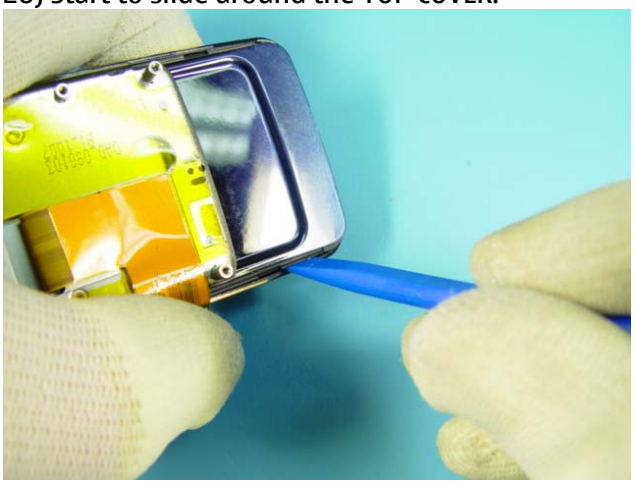


27) Use the SS-93 to release the TOP COVER.

28) Start to slide around the TOP COVER.



29) Slide around the TOP COVER.



30) Slide around the TOP COVER.

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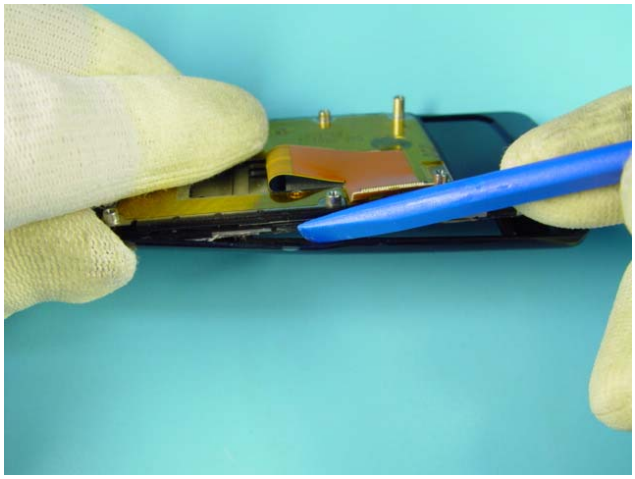
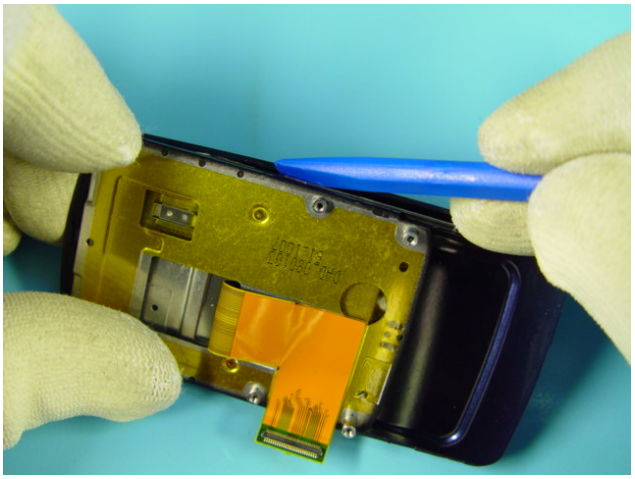
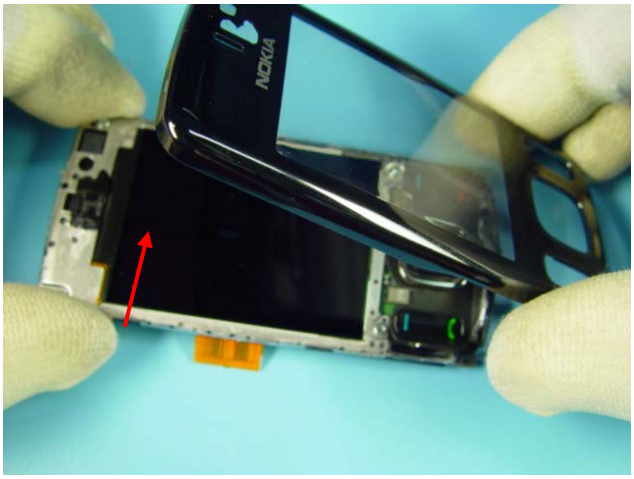


31) Release the glued TOP COVER.

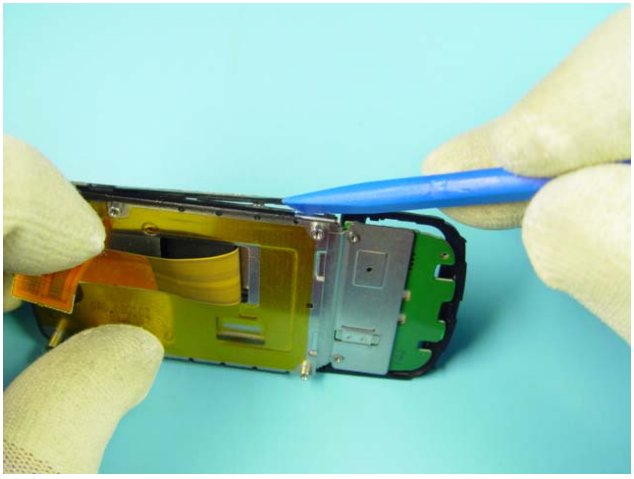


32) Release the glued TOP COVER so that it can be removed.

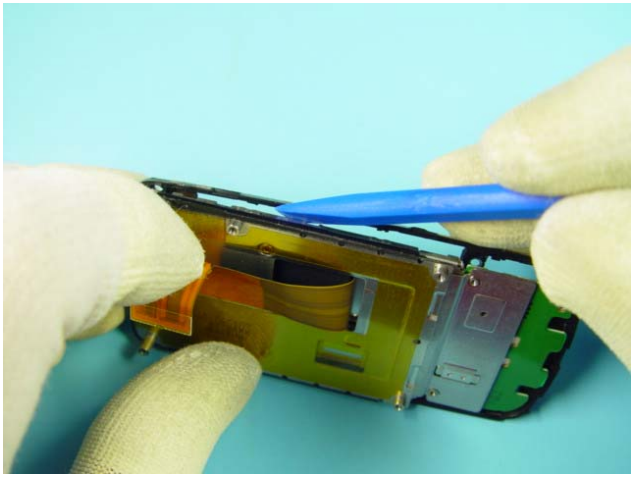


33) Remove the TOP COVER.

34) Unscrew the four T4+ screws.



35) Start to release the A COVER ASSEMBLY with SS-93.



36) Release the A COVER ASSEMBLY on both sides.

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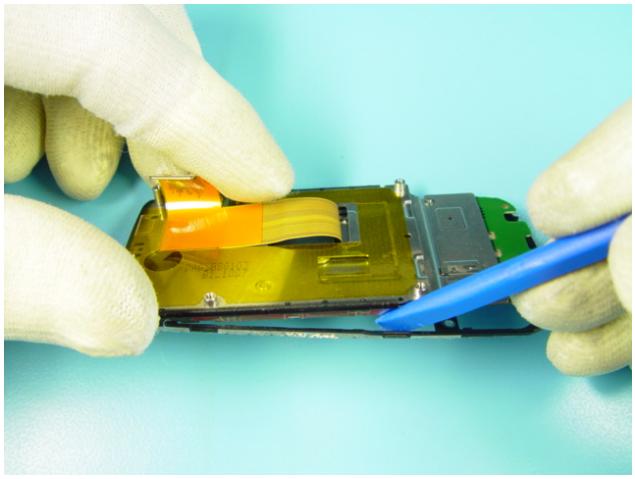
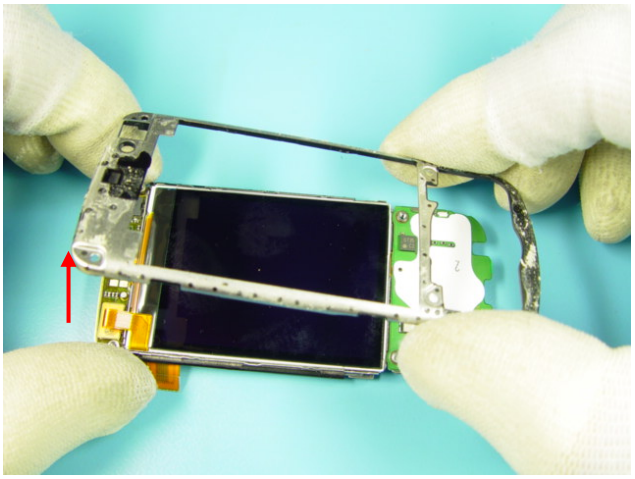
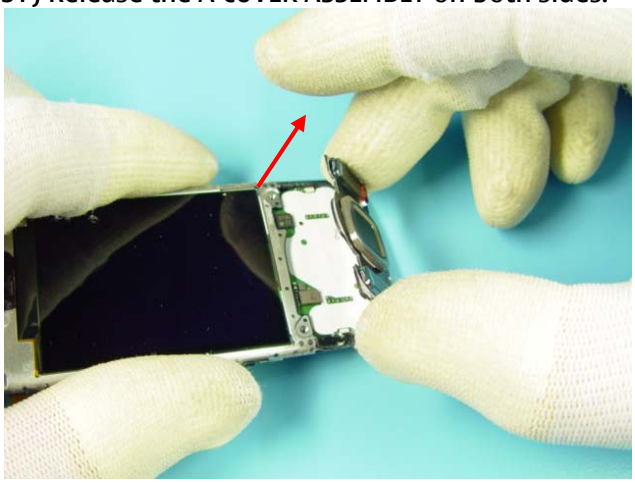


37) Release the A COVER ASSEMBLY on both sides.

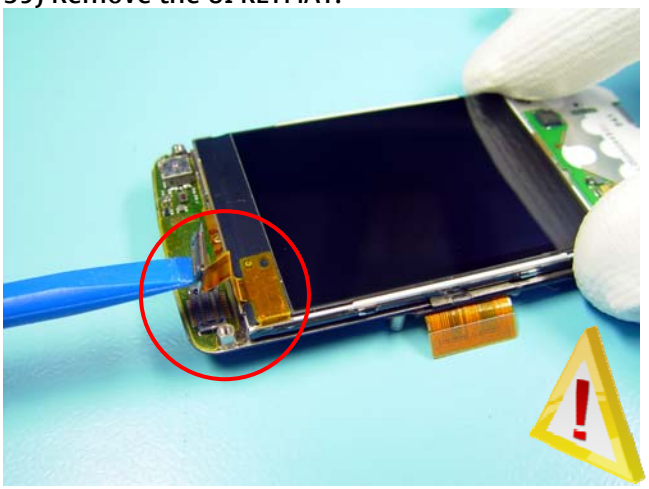


38) Remove the A COVER ASSEMBLY.



39) Remove the UI KEYMAT.

40) Open carefully the connector of the DISPLAY...



41) ...with SS-93.

42) Use SS-93 to carefully release the DISPLAY.

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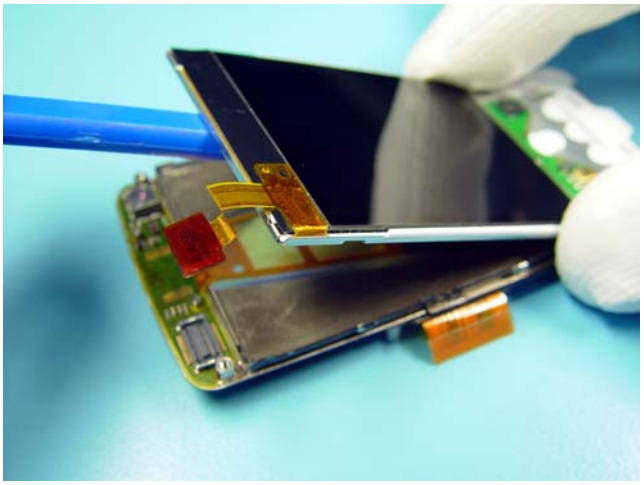
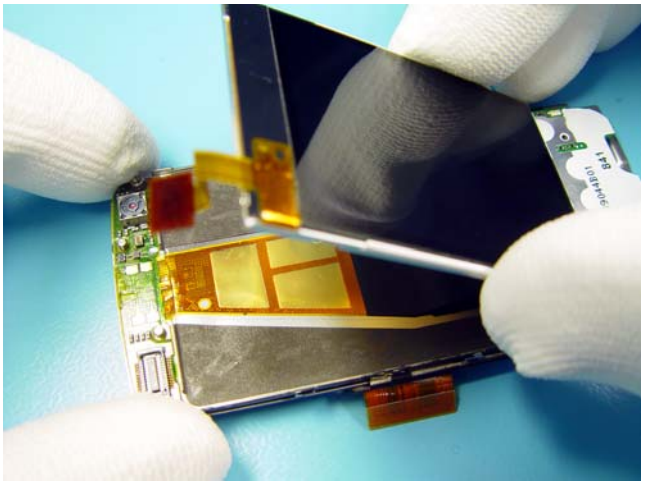
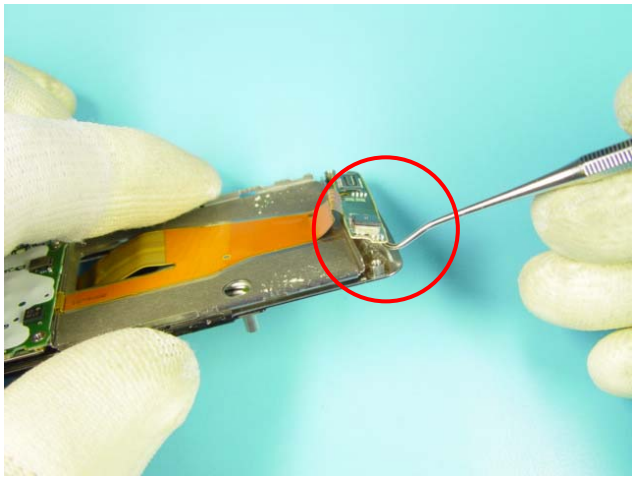


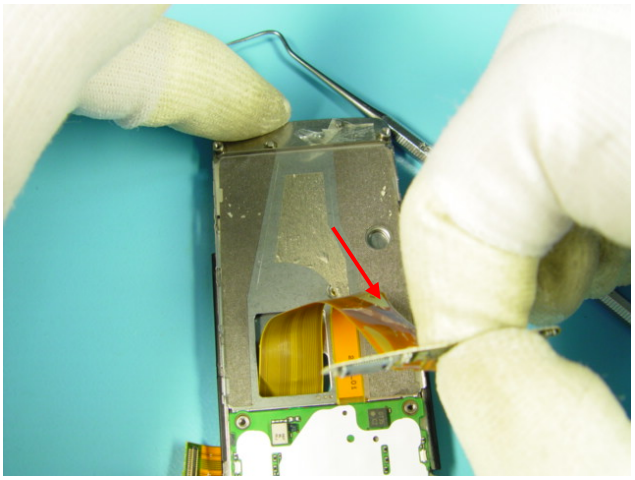
43) Release the DISPLAY.



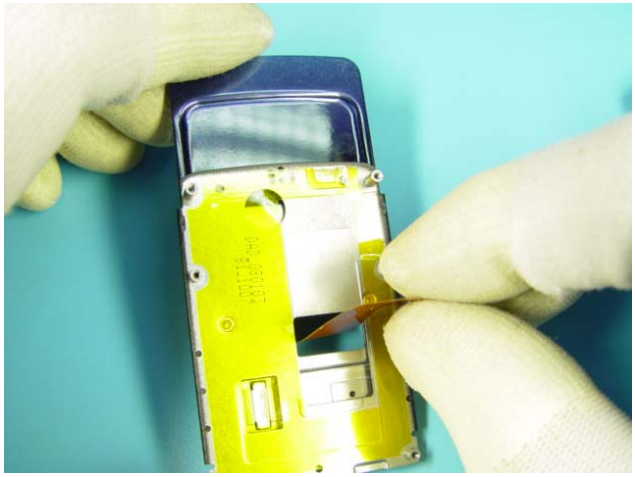
44) Remove the DISPLAY.



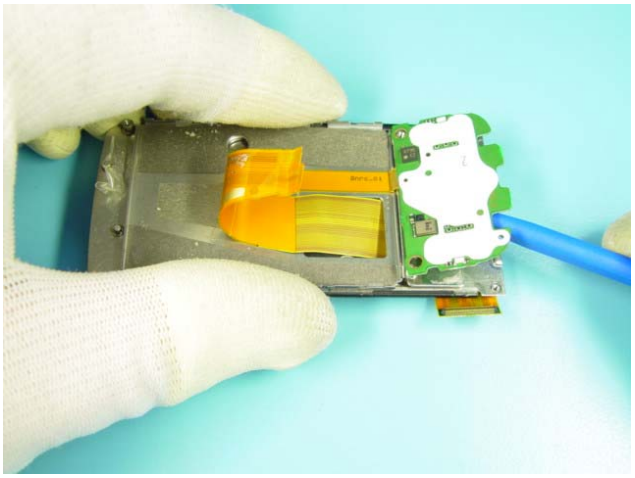
45) Lift up the MAIN FLEX ASSY on the top side with dental tool.



46) Remove the first part of the FLEX.



47) Remove the second part of the FLEX.



48) Lift up the lower side of the MAIN FLEX ASSY.

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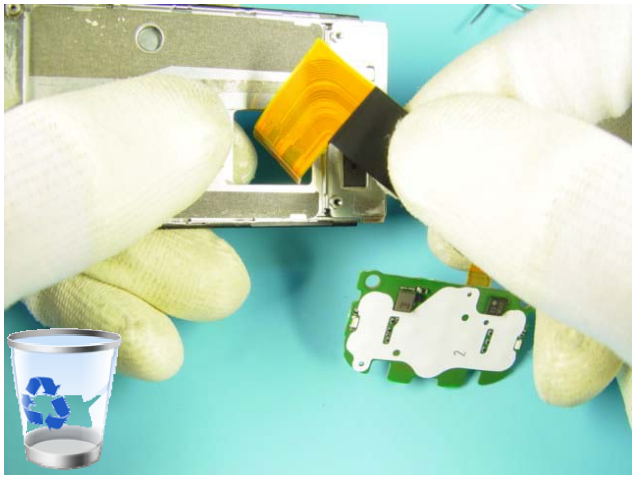

49) Remove the MAIN FLEX ASSY.

End of disassembly

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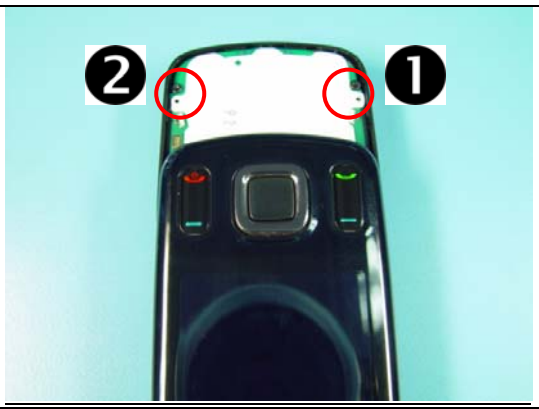
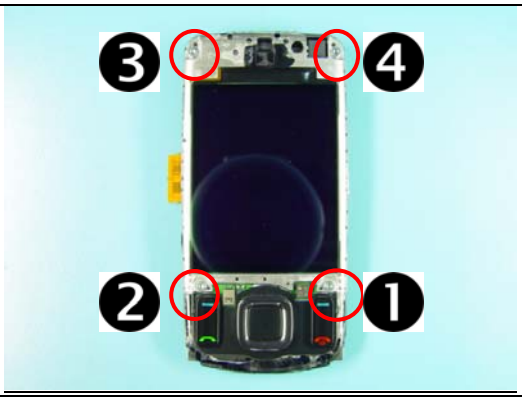
11. ASSEMBLY HINTS

	
For assembly: Apply the torque of 12 Ncm to the screws in the order shown.	**For assembly:** Apply the torque of 15 Ncm to the screws in the order shown.
	
For assembly: Apply the torque of 15 Ncm to the screws in the order shown.	

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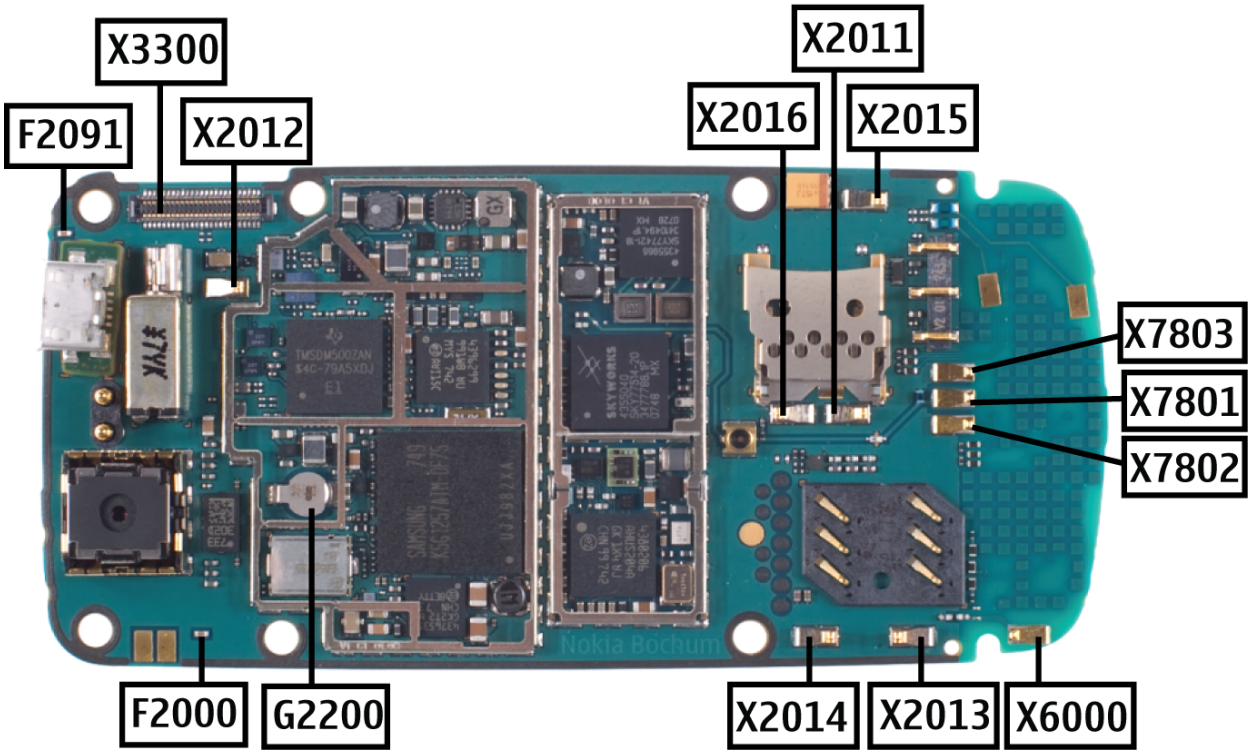
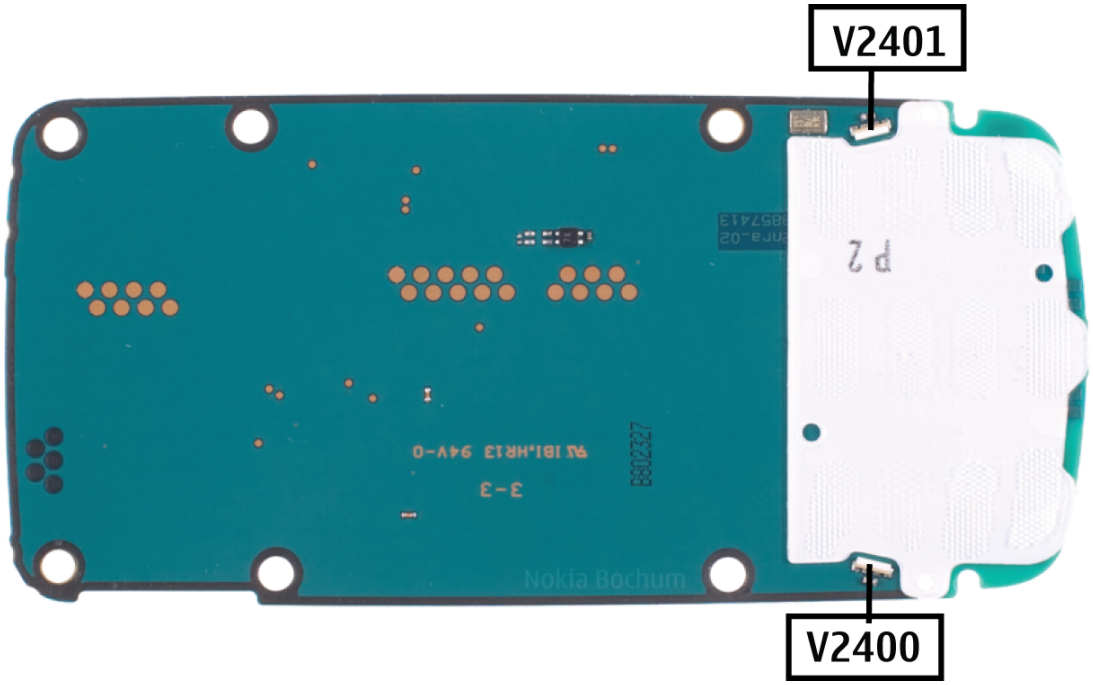
12. SOLDER COMPONENTS

Solder components only for Level 2





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