SERVICE MANUAL
Level 1&2

NOKIA 6700 SLIDE

RM-576 / RM-577

Transceiver characteristics

Band:
RM-576:
- WCDMA 900/1900/2100 (VIII, II, I)
- GSM 850/900/1800/1900

RM-577:
- WCDMA 850/1900/2100 (V, II, I)
- GSM 850/900/1800/1900

Display:
320 x 240 QVGA 2.2" 16M colors TFT

Camera:
Main camera: 5 megapixels (2592 x 1944) 3x digital zoom
Secondary camera: 320 x 240

Operating System:
S60 3rd Edition Feature Pack 2 (S60 3.2.3) Symbian OS 9.3

Connections:
- Bluetooth 2.0 EDR, A2DP
- 2.5 mm AV connector
- High-Speed 2.0 Micro-USB connector
- Micro SD card (2 GB in sales package)
- WLAN is not supported

Transceiver with BL-4C battery pack

Talk time	Standby
GSM: Up to 4 hours **WCDMA:** Up to 3 hours	**GSM:** Up to 300 hours **WCDMA:** Up to 250 hours

Note:
Talk times are dependant on network parameters and phone settings

Table of contents

1. CHANGE HISTORY

Status	Version No.	Date	Comments
Approved	1.0	12.1.2010	First approved version

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:

Nokia Care Academy
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.

2. COPYRIGHT

IMPORTANT

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

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

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.

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.

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. Shortcircuiting the terminals may damage the battery or the connecting object.

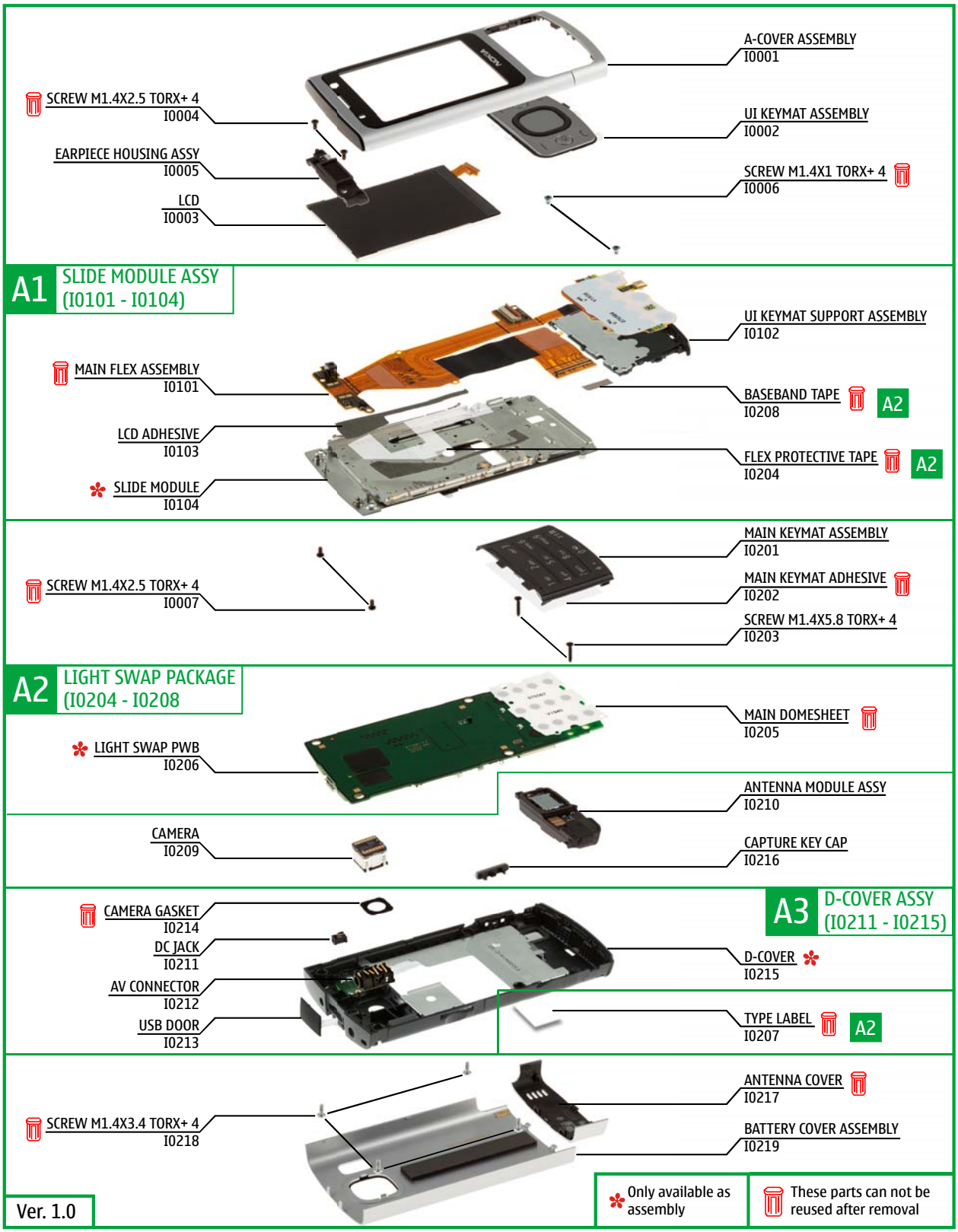
Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 15°C and 25°C (59°F and 77°F).

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.

7. EXPLODED VIEW



8. SERVICE DEVICES

FLS-5 Flash Device

CA-101 Service Cable

BL-4C Battery

AC-8 Travel Charger

SS-210 version 2
Camera removal tool

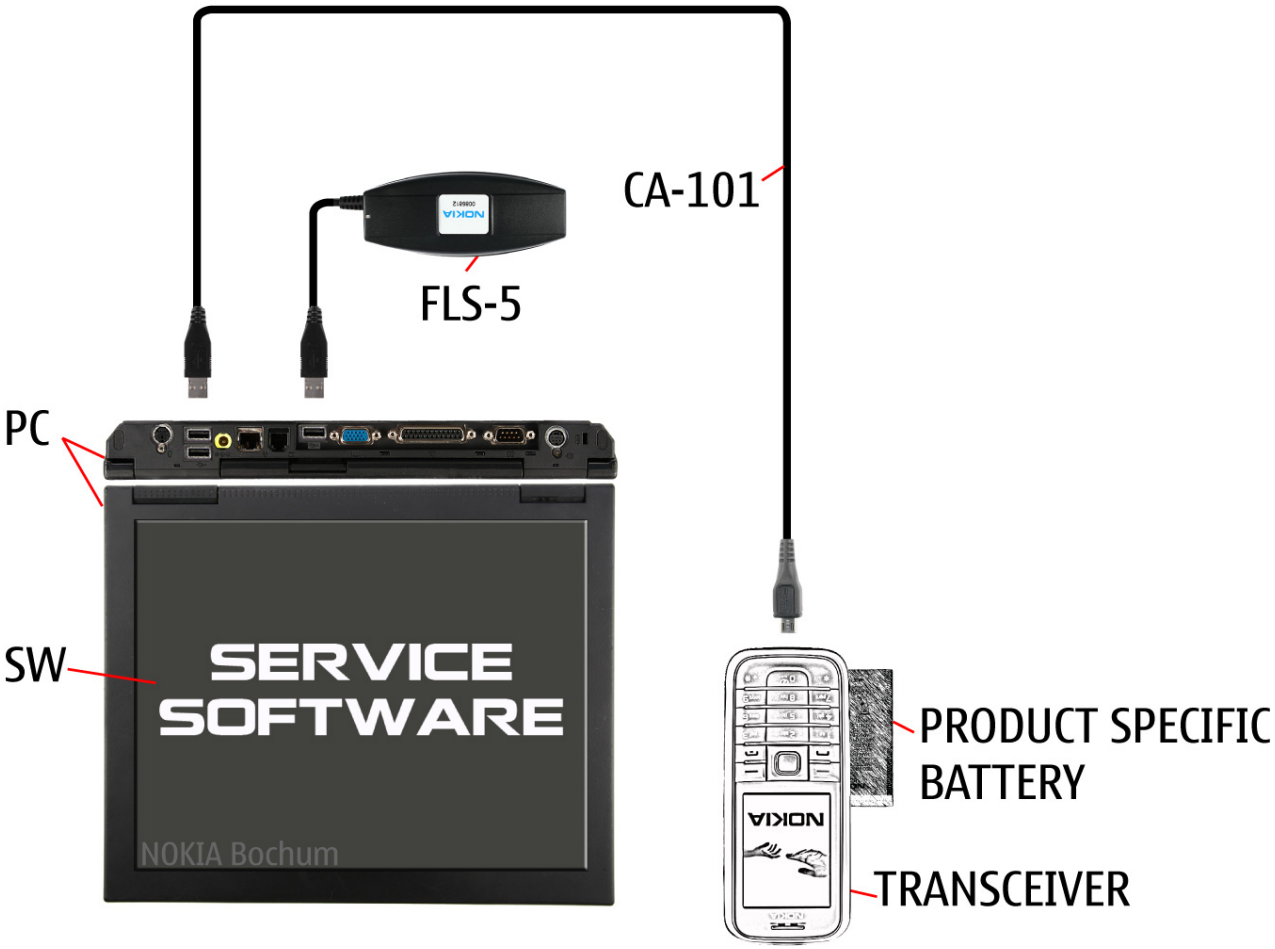
NMP standard toolkit (v2)
For more information, refer to the Service Bulletin (SB-011) on Nokia Online. Supplier or manufacturer contacts for tool re-order can be found in "Recommended service equipment" document on Nokia Online.

SS-217
Jig alignment tool

9. SOFTWARE UPDATE

Flash concept – Point of Sale (POS)

To use the FLS-5 Flash Dongle, follow the user guide inside the sales package.
Please check always for the latest version of flash software available on Nokia Online (NOL).



10. DISASSEMBLY INSTRUCTIONS

1) Nokia 6700 slide disassembly.

2) For disassembling, you will need the Nokia Standard Tool kit version 2. You will also need an AV plug, a DC plug and a camera removal tool SS-210 version 2.

3) To release the BATTERY COVER, open the USB DOOR.

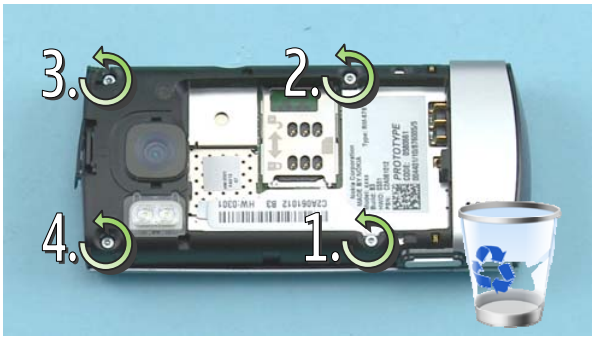
4) Then press the release button shown.

5) Remove the BATTERY COVER. If there is a BATTERY inserted, remove it also.

6) Slide the phone open. Detach the three shown clips holding the MAIN KEYMAT ASSEMBLY by sliding the SRT-6 in the direction shown.

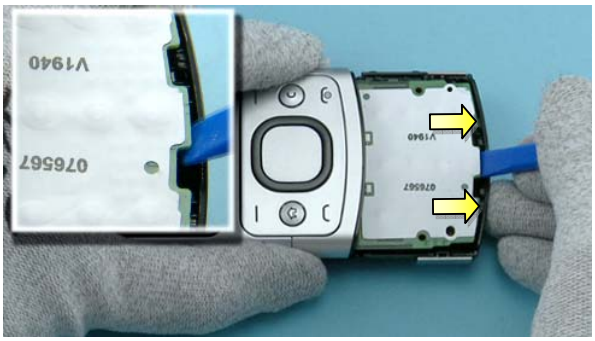
7) Remove the MAIN KEYMAT ASSEMBLY.

8) Use the tweezers to remove the MAIN KEYMAT ADHESIVE. Do not use it again. Discard it.



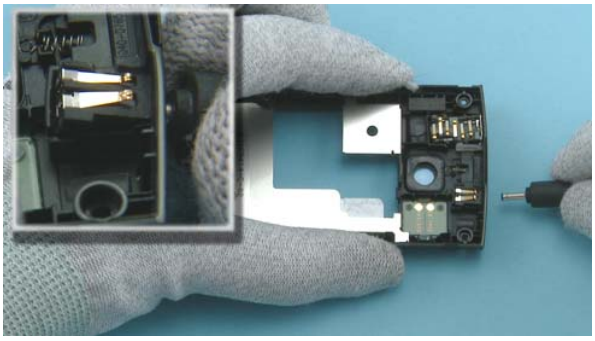
9) Unscrew the four TORX+ size 4 screws in the order shown. Do not use them again. Discard them.

10) Slide the phone open. Unscrew the two TORX+ size 4 screws in the order shown.

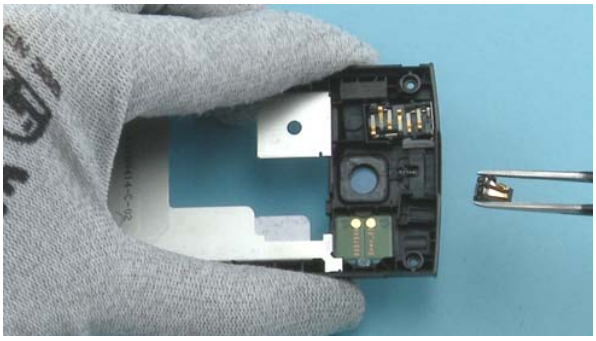


11) Detach the two clips holding the engine board with the SS-93.

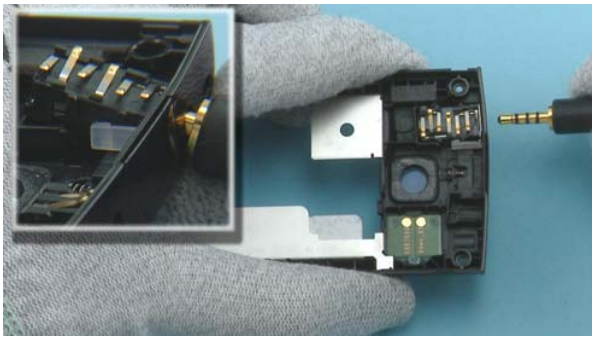
12) Close the slide. Lift up and separate the D-COVER ASSY.



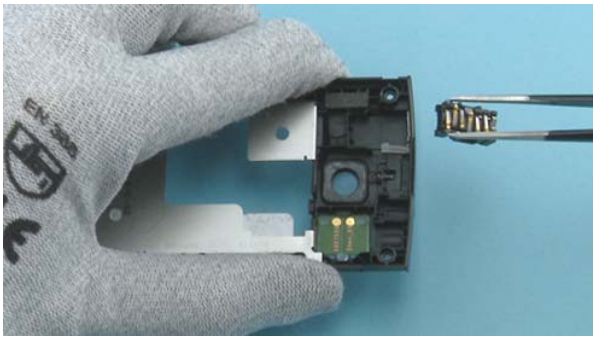
13) Release the DC JACK with the DC plug.



14) Remove the DC JACK with the tweezers.

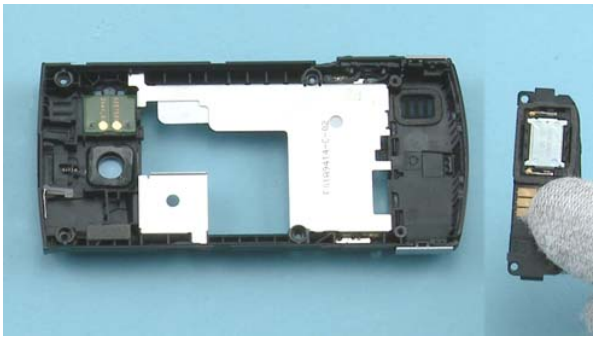


15) Use the AV plug to lift up the AV CONNECTOR.



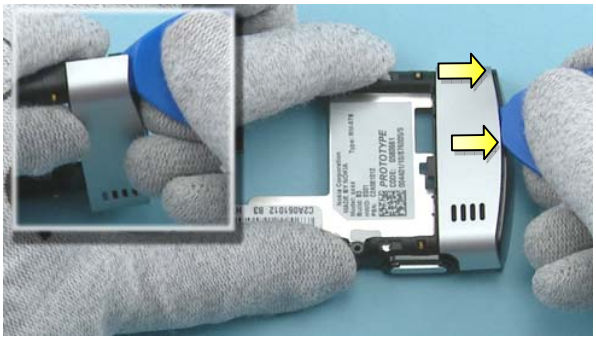
16) Remove the AV CONNECTOR with the tweezers.

17) Use the SS-93 to release the ANTENNA MODULE ASSY.



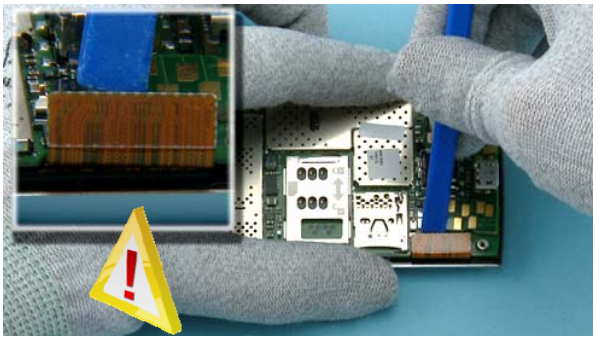
18) Remove the ANTENNA MODULE ASSY.

19) Release the first clip of the ANTENNA COVER with the SRT-6 as shown.

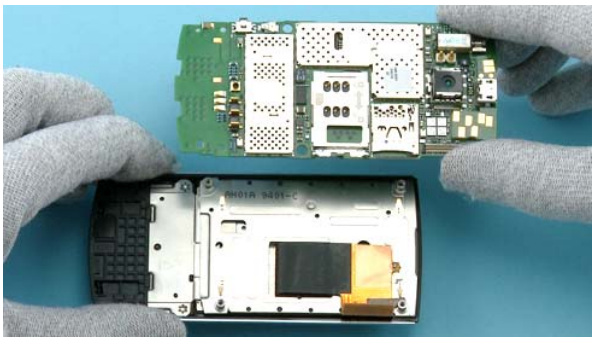


20) Slide the SRT-6 to detach the two remaining clips.

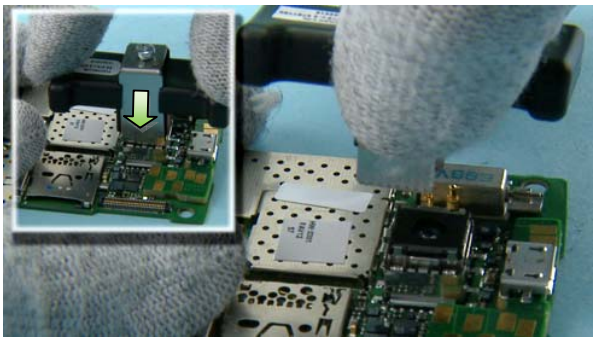
21) Remove the ANTENNA COVER. Do not use it again. Discard it.



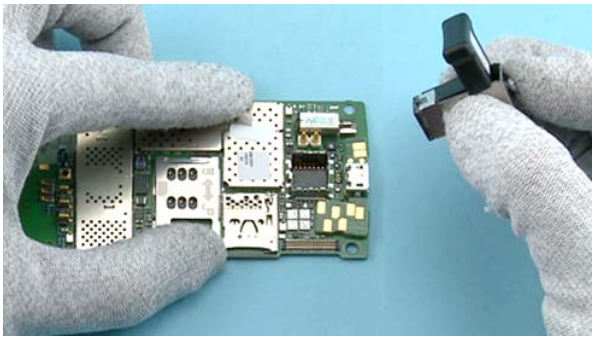
22) Use the SS-93 to carefully open the MAIN FLEX CONNECTOR. Be careful not to damage any nearby components.



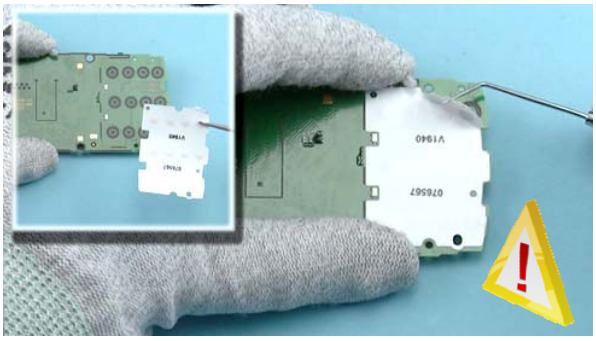
23) Lift up the engine board and remove the SLIDE MODULE ASSY.



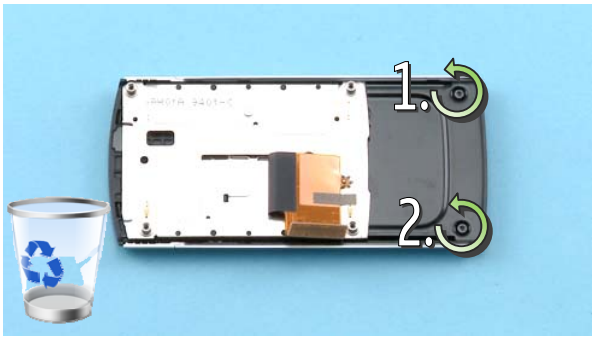
24) Use the camera removal tool SS-210 version 2 to remove the camera. Press down the SS-210 until the camera retaining clips are released.



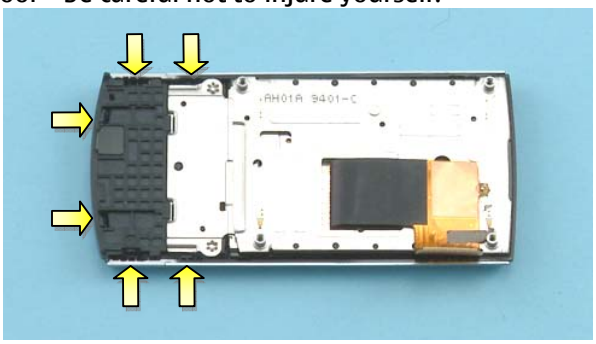
25) Lift up and remove the camera.



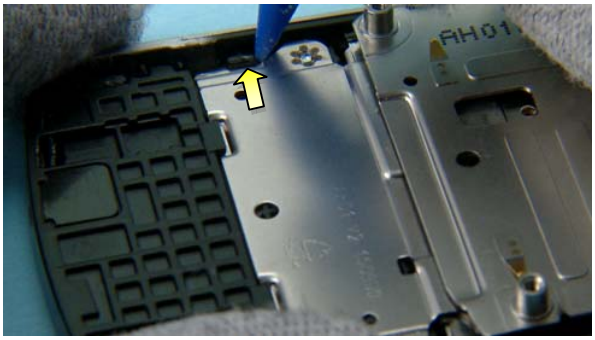
26) Use the dental tool to lift up one corner of the DOMESHEET. Peel off and remove the DOMESHEET ASSY with fingers. Do not use it again. Discard it. Be aware of the sharp point of the dental tool – be careful not to injure yourself!



27) Unscrew the two TORX+ size 4 screws in the order shown. Do not use them again. Discard them.



28) To release the SLIDE MODULE ASSY, move the slide and detach the six clips shown.

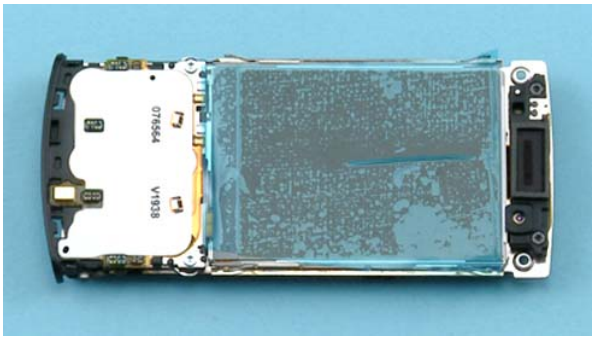


29) First release the clips on both sides with the sharp end of the SS-93.

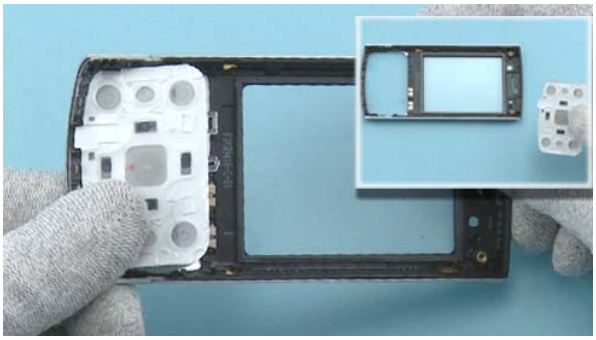
30) Then release the clips at the bottom end.

31) Move the slide, and lever out the SLIDE MODULE ASSY from the shown places.

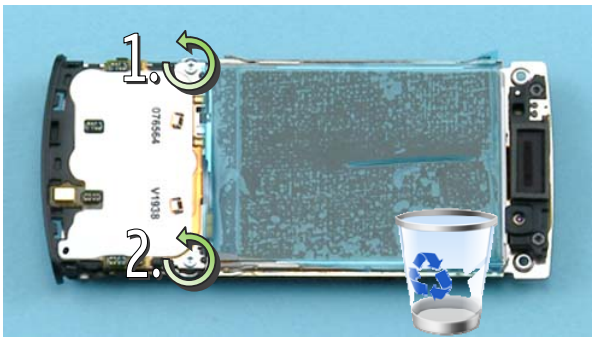
32) Lift up the SLIDE MODULE ASSY, and remove the A-COVER.



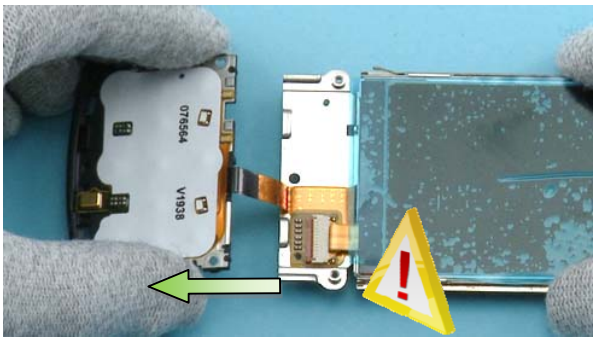
33) Protect the LCD with a protective film.



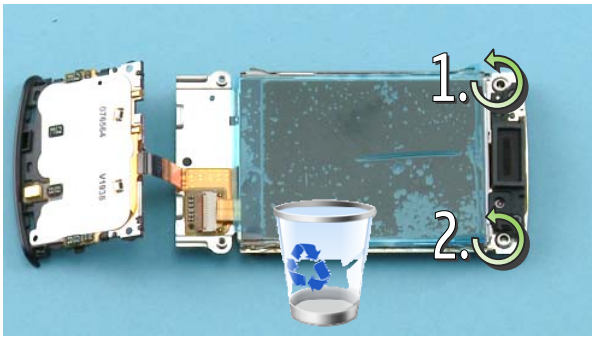
34) Press out and remove the UI KEYMAT ASSEMBLY.



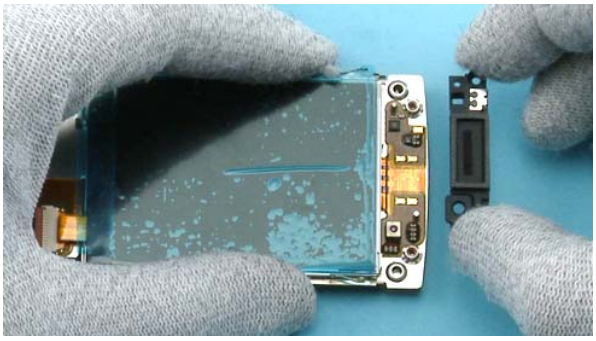
35) Unscrew the two TORX+ size 4 screws in the order shown. Do not use them again. Discard them.



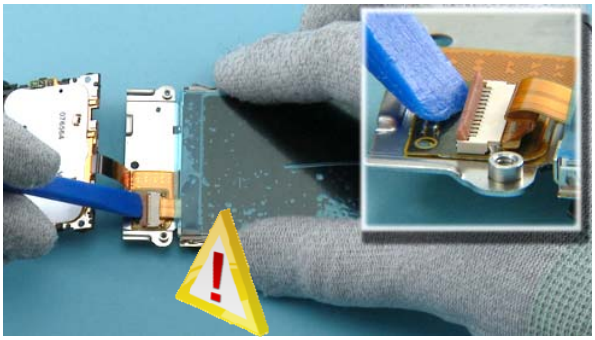
36) Carefully move the UI KEYMAT SUPPORT ASSEMBLY to the direction shown.



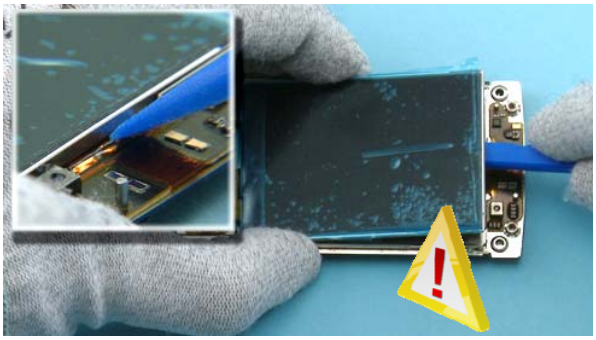
37) Unscrew the two TORX+ size 4 screws in the order shown. Do not use them again. Discard them.



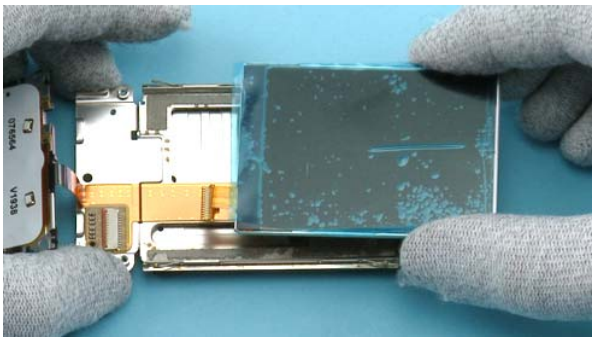
38) Remove the EARPIECE HOUSING ASSY.



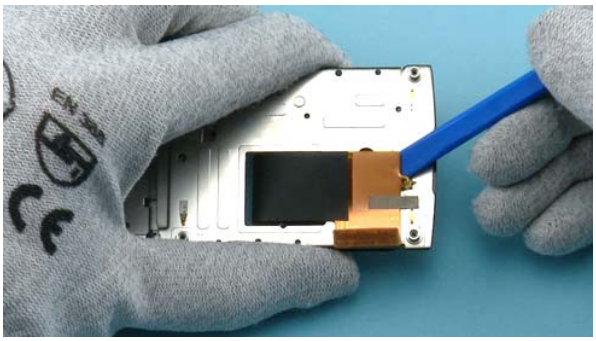
39) Use the SS-93 to unlock the locking mechanism of the LCD connector. While opening the connector, be careful not to damage the connector.



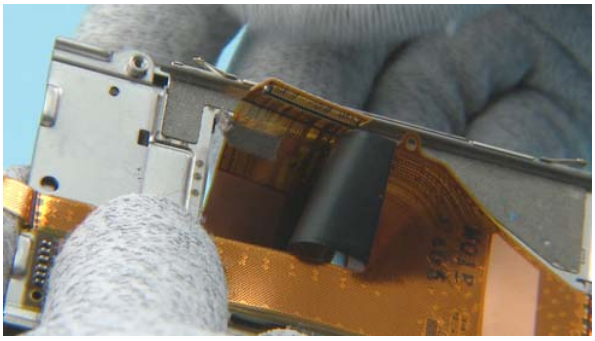
40) Use the SS-93 to slowly lift up the LCD. Be careful not to damage the LCD.



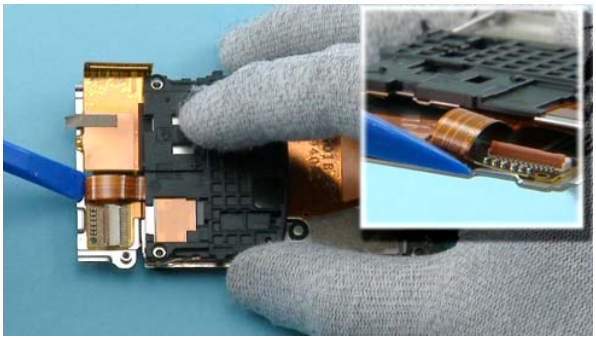
41) Then carefully remove the LCD.



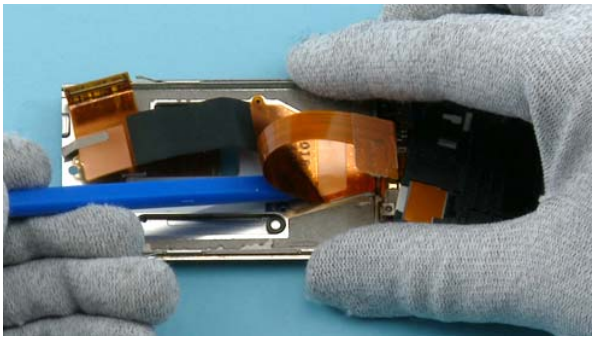
42) Turn over the device and release the MAIN FLEX ASSEMBLY.



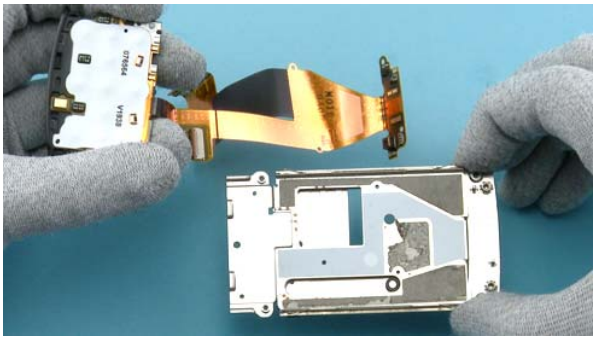
43) Move the slide and push the MAIN FLEX ASSEMBLY through the gap of the SLIDER MODULE.



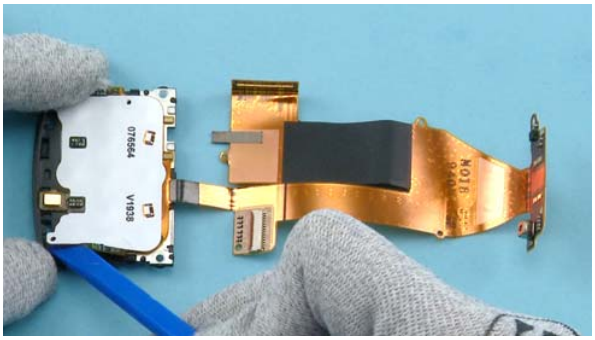
44) Release the top side of the MAIN FLEX ASSEMBLY from the SLIDER MODULE with the SS-93.



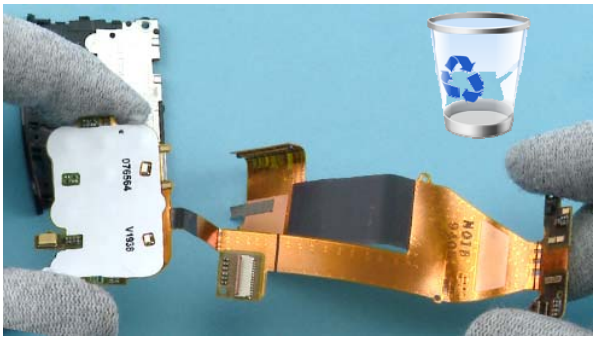
45) Continue to release the remaining part of the MAIN FLEX ASSEMBLY on the top side.



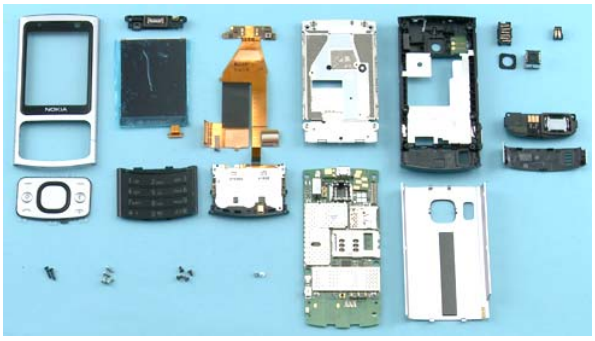
46) Remove the SLIDE MODULE.



47) Remove the main flex from the UI KEYMAT SUPPORT ASSEMBLY with the SS-93.



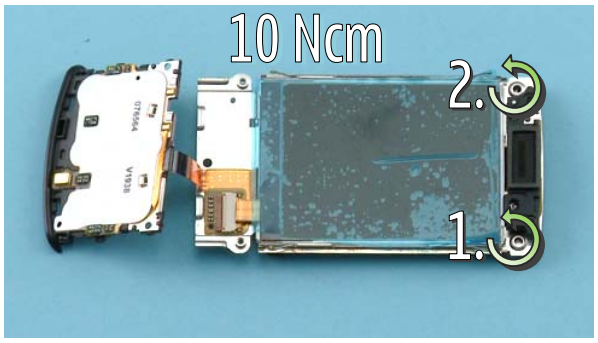
48) The UI flex cannot be used again. Discard it.



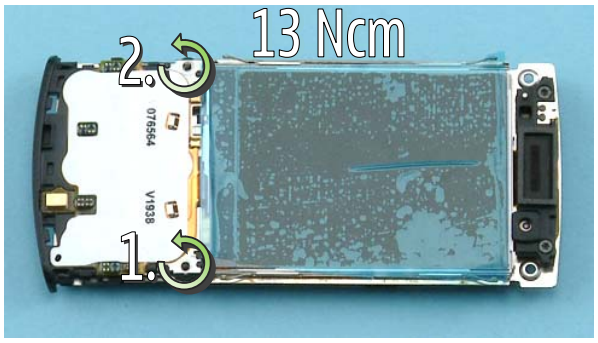
49) Nokia 6700 slide disassembly procedure is now complete.

- End of disassembly -

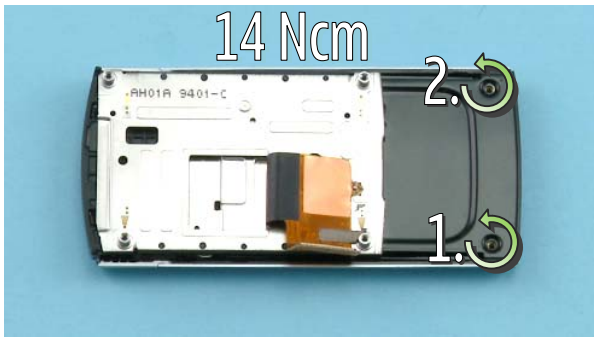
11. ASSEMBLY HINTS



1) Tighten the two TORX+ size 4 screws to the torque of 10 Ncm in the order shown.

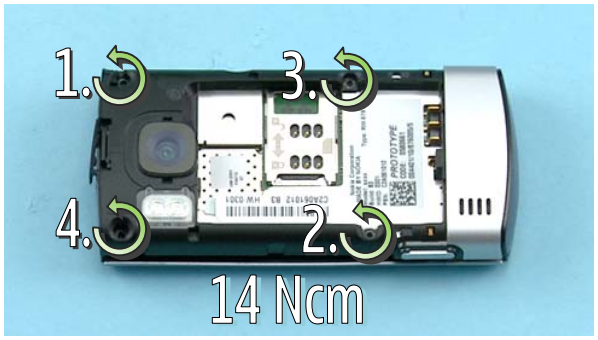


2) Tighten the two TORX+ size 4 screws to the torque of 13 Ncm in the order shown.



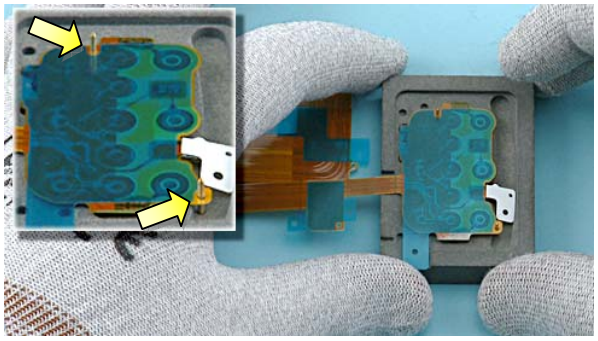
3) Tighten the two TORX+ size 4 screws to the torque of 14 Ncm in the order shown.

4) Tighten the two TORX+ size 4 screws to the torque of 14 Ncm in the order shown.

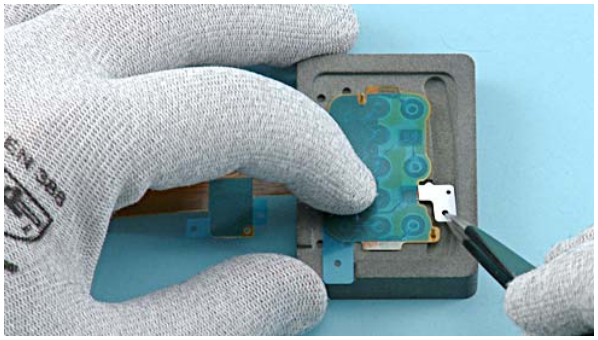


5) Tighten the four TORX+ size 4 screws to the torque of 14 Ncm in the order shown.

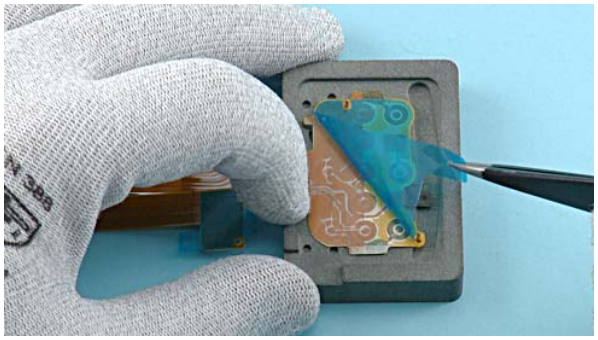
Assembling the UI KEYMAT SUPPORT to the MAIN FLEX ASSEMBLY



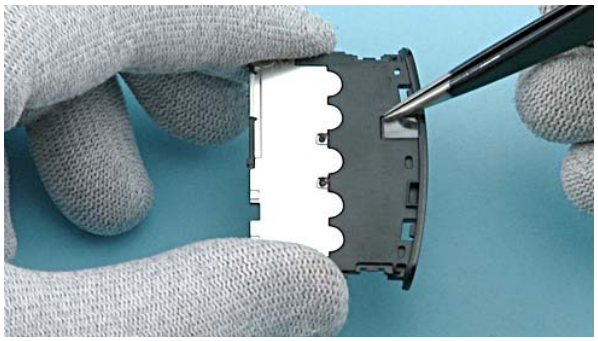
1) Align the MAIN FLEX to the SS-217 by using the guide pins.



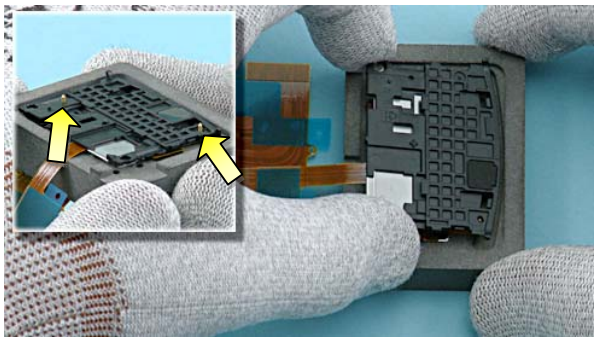
2) Remove the microphone protective tape.



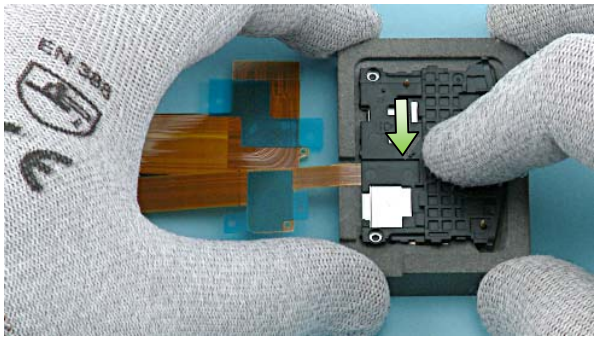
3) Remove the UI KEYMAT protective tape.



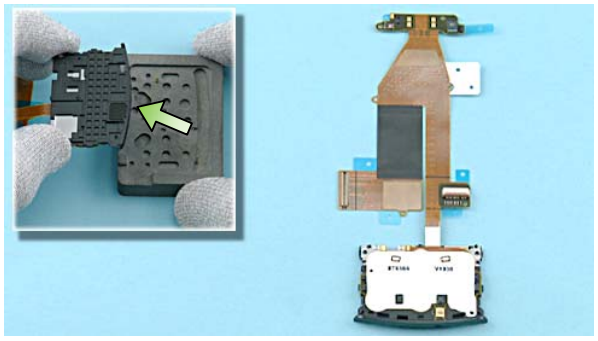
4) Remove the microphone gasket protective tape from the UI KEYMAT SUPPORT.



5) Use the guiding pins of the SS-217 to align the UI KEYMAT SUPPORT correctly.

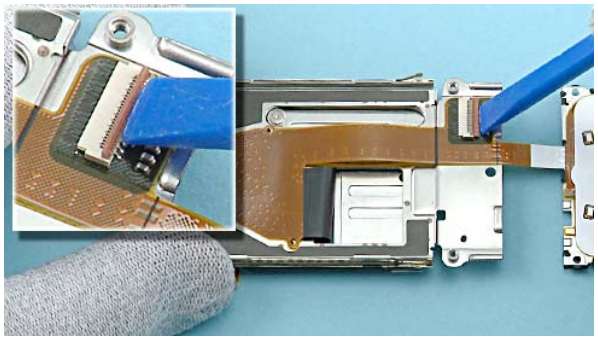


6) Carefully press down the UI KEYMAT SUPPORT so that the adhesive on the MAIN FLEX ASSEMBLY activates.

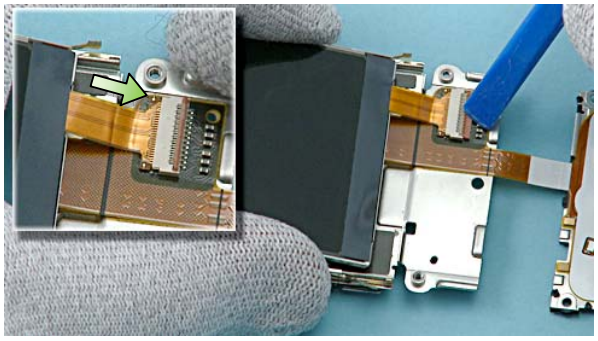


7) Remove the MAINFLEX ASSEMBLY with the UI KEYMAT SUPPORT. Assembling of the UI KEYMAT SUPPORT to the MAIN FLEX ASSEMBLY is now complete.

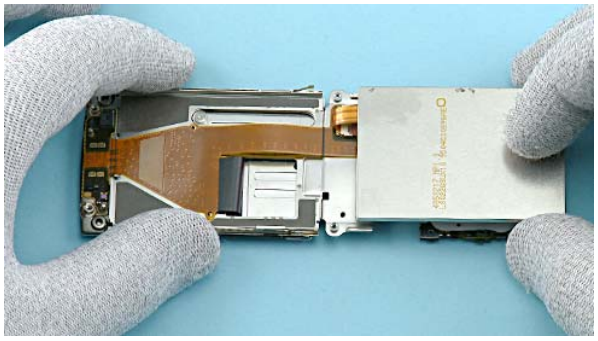
Prebending of the LCD flex



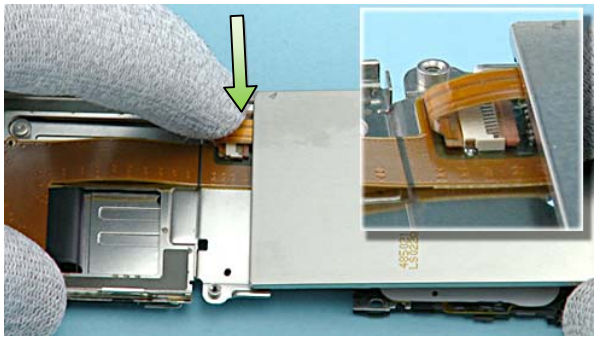
1) Open the locking mechanism of the LCD connector on the MAIN FLEX ASSEMBLY with the SS-93.



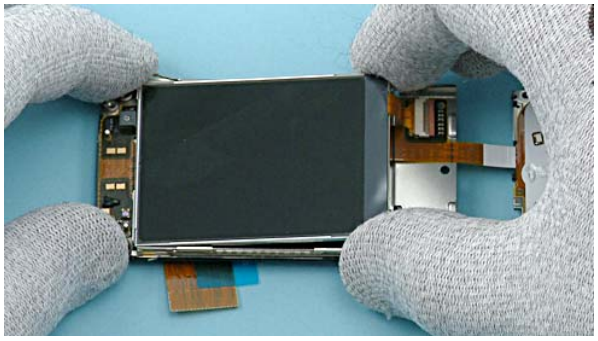
2) Connect the LCD connector to the MAIN FLEX ASSEMBLY. Close the locking mechanism with the SS-93.



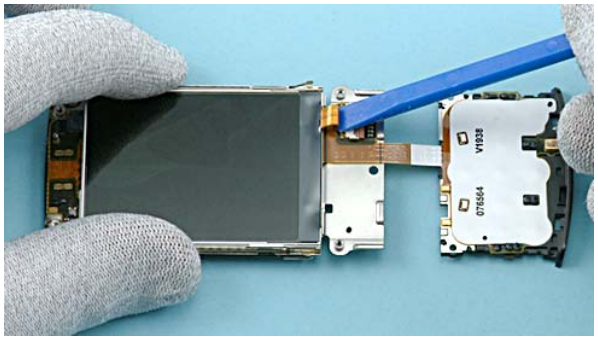
3) Turn over the LCD.



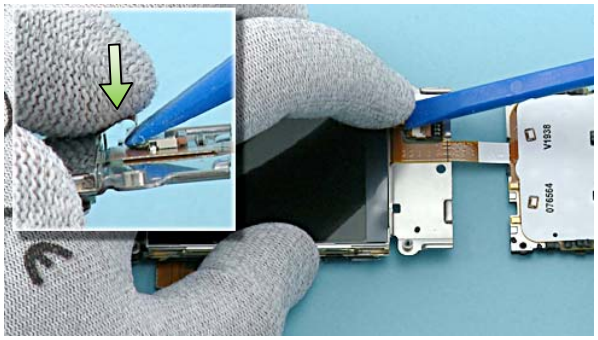
4) Carefully press the LCD flex as shown.



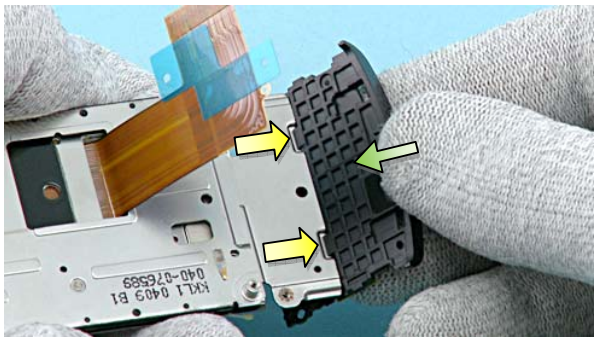
5) Turn back the LCD and place it correctly to the SLIDE MODULE.



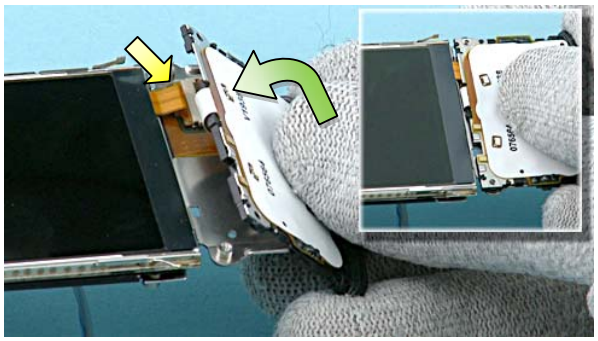
6) Place the SS-93 as shown to use it as a guiding tool for the second bending.



7) Carefully press the LCD flex as shown to bend it correctly. Before assembling the UI KEYMAT SUPPORT, check that the LCD flex is correctly connected to the MAIN FLEX ASSEMBLY.



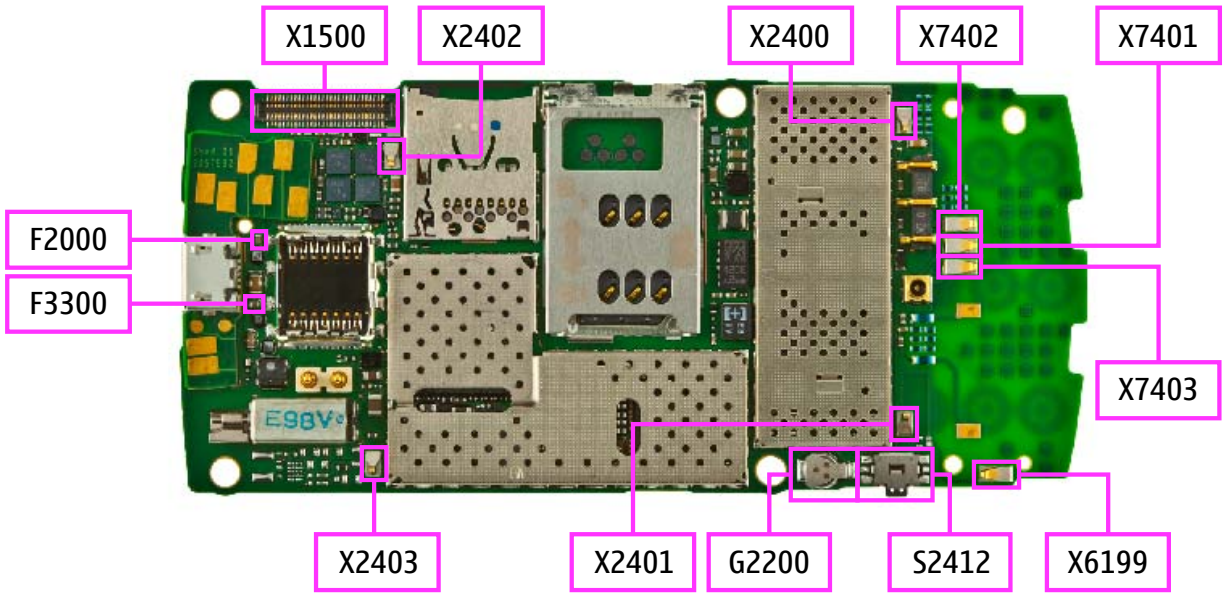
8) Slide the UI KEYMAT SUPPORT to direction shown. Make sure that shown two clips are correctly positioned.



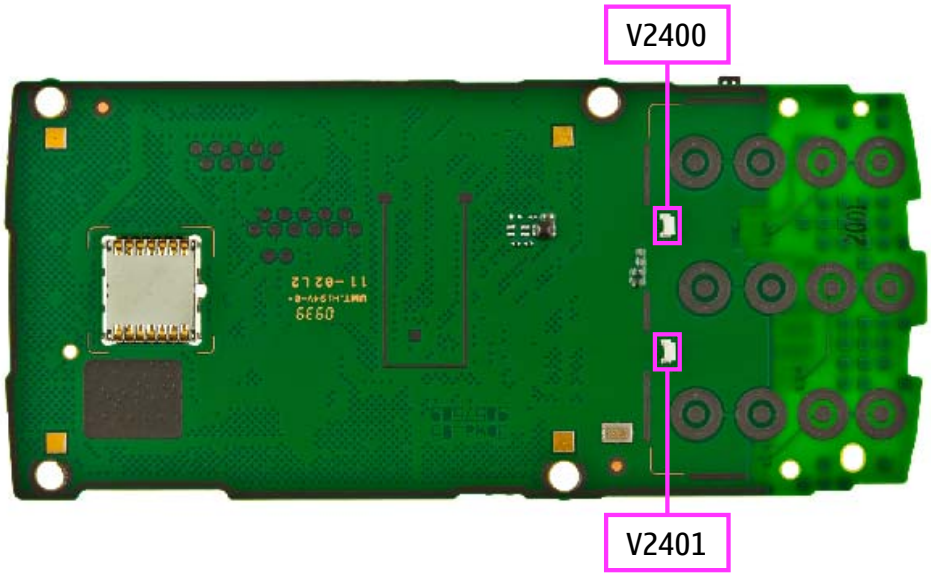
9) Before placing the UI KEYMAT SUPPORT completely, make sure that the LCD flex is correctly bended. Place the UI KEYMAT SUPPORT on it's place so that the LCD flex folds nicely underneath it

12. SOLDER COMPONENTS

TOP



BOTTOM



Ver. 1.0