



RM-586



Transceiver characteristics

Band:

GSM 850/900/1800/1900 + EDGE

Display:

QVGA (240*320 pixels) 2.2" screen up to 262k colors

Camera:

2 Mpix camera with zoom up to 4 x (digital)

Operating System:

Symbian OS ver. 9.1 Series40 6th Edition

Connections:

Bluetooth 2.1 + EDR High Speed Micro USB Interface to PC 3.5mm AV connector 2.0mm DC charger plug

Transceiver with BL-5C battery pack

Talk time	Standby
GSM:	GSM:
Up to 12.5 hours	Up to 490 hours

Note:

Talk times are dependant on network parameters and phone settings



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Change history

Status	Version No.	Date	Comments
Approved	1.0	08.03.2010	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.



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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.



2. 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:

2.1 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.

2.2 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



3. 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.





4. CARE AND MAINTENANCE

Academy

NOKIA Care

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.



5. 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).

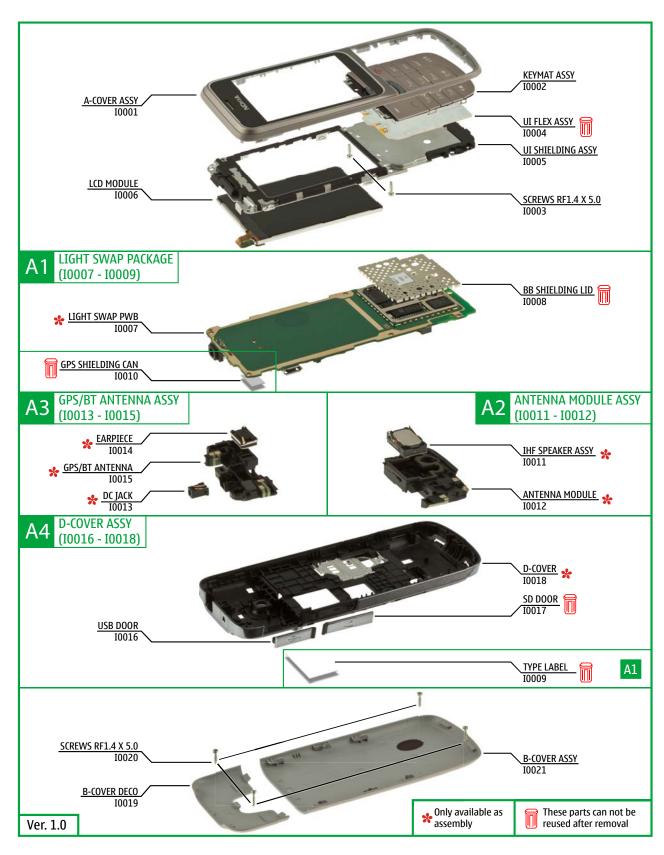
A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Batteries' performance is particularly limited in temperatures well below freezing.

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

Do not dispose as household waste.



6. EXPLODED VIEW





7. SERVICE DEVICES



FLS-5 Flash Device



CA-101 Service Cable



AC-3 Travel Charger



BL-5C Battery



SS-34 Connector Removal tool

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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.





8. SW-UPDATE

Flash concept (Point of Sales)

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, wich is available on Nokia Online.



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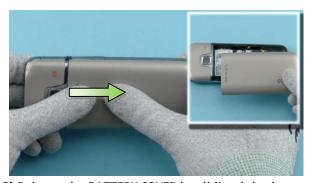
9. DISASSEMBLY INSTRUCTIONS



1) Nokia 2710 Navigation Edition disassembly.



2) You must use the Nokia Standard Toolkit version 2. You will also need the SS-34 connector removal tool.



3) Release the BATTERY COVER by sliding it in the direction shown. Remove the BATTERY COVER. If there is a battery inserted, remove it also.



4) Unscrew the two TORX+ size 4 screws in the order shown.



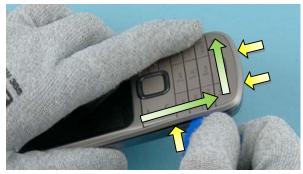
5) Start detaching the A-COVER by inserting the SRT-6 between the A-COVER and D-COVER. Slide the SRT-6 to shown direction and release the first two clips.



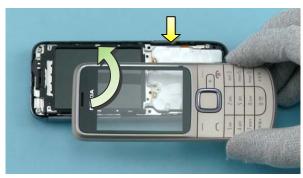
6) Release the two clips on the other side of the phone by sliding the SRT-6 to direction shown. Continue to the top side of the phone and release the shown clip.

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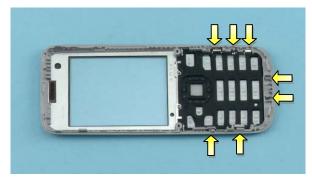
7) Slide the SRT-6 towards the bottom end to release the clip on the side of the phone. Then release the two shown clips on the bottom end by sliding the SRT-6 to the direction shown.



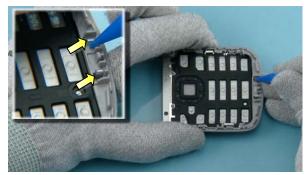
8) Carefully lift up the A-COVER from the left side to release the shown clip. Remove the A-COVER ASSY and check that the clips remained unharmed.



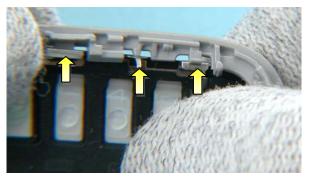
9) Protect the LCD with a protective film.



10) To remove the KEYMAT ASSY, release all seven clips shown.

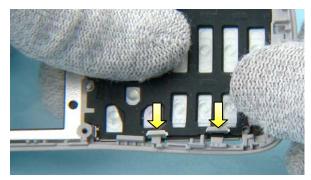


11) First release the clips at the bottom end with the sharp end of the SS-93.

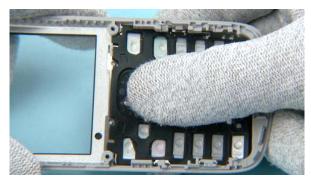


12) Then release the three clips on the side.





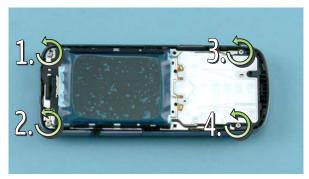
13) Release the two clips on the other side.



14) Press out the KEYMAT ASSY from the A-COVER ASSY.



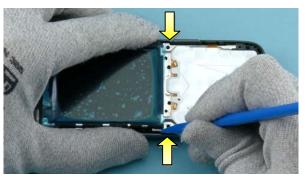
15) Remove the KEYMAT ASSY.



16) Unscrew the four TORX+ size 4 screws in the order shown.



DOOR.

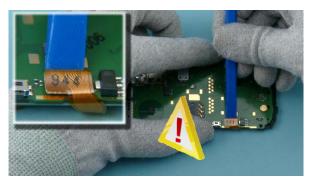


17) To separate the engine board, first open the USB 18) Release the two clips holding the D-COVER ASSY with the SS-93 as shown.





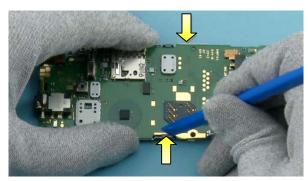
19) Remove the D-COVER ASSY.



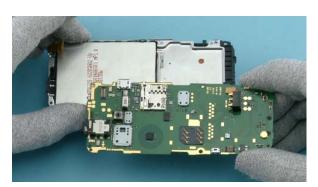
20) Use the SS-93 to carefully open the UI SHIELDING ASSY CONNECTOR. Be careful not to damage the connector or the components nearby!



21) Use the SS-34 to carefully open the LCD CONNECTOR. Be careful not to damage the connector or the components nearby!



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

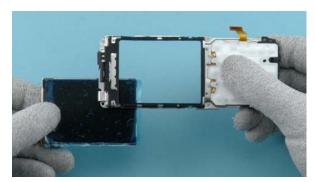


23) Remove the engine board.



24) Press out the LCD from the UI SHIELDING ASSY. Be careful not to damage the LCD!





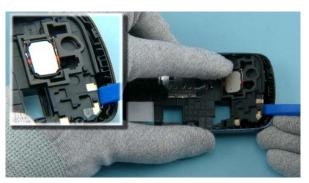
25) Remove the LCD.



26) Lift up the UI FLEX ASSY from the UI SHIELDING ASSY with the SS-93.



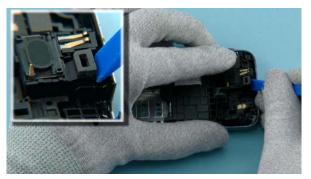
27) Remove the UI FLEX assy. The UI flex cannot be used again. Discard it.



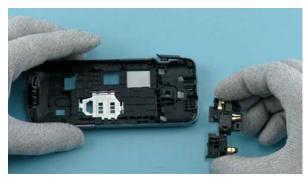
28) Use the SS-93 to release the ANTENNA MODULE ASSY.



29) Remove the ANTENNA MODULE ASSY.



30) Use the SS-93 to detach the GPS/BT ANTENNA ASSY.



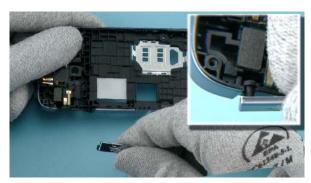
31) Remove the GPS/BT ANTENNA ASSY.



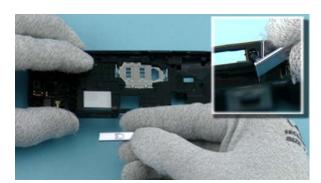
32) Slide the SRT-6 to detach the two clips of the B-COVER DECO as shown.



33) Remove the B-COVER DECO.



34) Remove the USB DOOR.



35) Remove the SD DOOR.

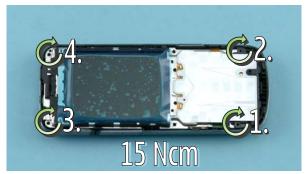


36) Nokia 2710 Navigation Edition disassembly is now complete.

-END OF DISASSEMBLY-



10. ASSEMBLY HINTS



1) Tighten the four TORX + size 4 screws to the torque of 15 Ncm in the order shown.



2) Tighten the two TORX + size 4 screws to the torque of 15 Ncm in the order shown.

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11. SOLDER COMPONENTS

