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SERVICE MANUAL Level 1&2 NOKIA

RX-34

NOKIA

Transceiver characteristics:

Band:
Camera: VGA camera
Display: 10.49cm (4.13inch) Touch screen with 65.536 colors,
High resolution 800x480 pixel
WLAN: IEEE802.11 g/b
Bluetooth
FM Radio
Connector: Mini USB Connector
Memory Card Type: SD/MMC



Transceiver withBP-5L Li-Ion battery pack

Talk time	Standby	Note
	up to 10days	Depends on network parameters

Environmental characteristics:

Lead-free soldered



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CHANGE HISTORY

Status	Version No.	Date	Comments
Draft	0.1	08.Dec.2006	Initial draft
Approved	1.0	09.Jan.2007	Approval
Approved	2.0	14.Mrz.2007	Exploded view / Spare Parts overview update; Battery Test / GONOGO Test removed



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1. INTRODUCTION

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

While every endeavor has been made to ensure the accuracy of this document, some errors may exist. If you find any errors or if you have further suggestions, please notify NOKIA using the address below: mailto:cc-ts-rc.documentation@nokia.com

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

Warnings and Cautions

Please refer to the phone's user guide for instructions relating to operation, care and maintenance including important safety information. Note also the following:

Warnings:

- 1. CARE MUST BE TAKEN ON INSTALLATION IN VEHICLES FITTED WITH ELECTRONIC ENGINE MANAGEMENT SYSTEMS AND ANTI-SKID BRAKING SYSTEMS. UNDER CERTAIN FAULT CONDITIONS, EMITTED RF ENERGY CAN AFFECT THEIR OPERATION. IF NECESSARY, CONSULT THE VEHICLE DEALER/MANUFACTURER TO DETERMINE THE IMMUNITY OF VEHI-CLE 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 MANUFACTUR-ER OF THE MEDICAL DEVICE IF YOU HAVE ANY QUESTIONS. OTHER ELECTRONIC EQUIPMENT MAY ALSO BE SUBJECT TO INTERFERENCE.

Cautions:

- 1. Servicing and alignment must be undertaken by qualified personnel only.
- 2. Ensure all work is carried out at an anti-static workstation and that an anti-static wrist strap is worn.
- 3. Use only approved components as specified in the parts list.
- 4. Ensure all components, modules screws and insulators are correctly re-fitted after servicing and alignment.
- 5. Ensure all cables and wires are repositioned correctly.



Electrostatic discharge can easily damage the sensitive components of electronic products. Therefore every Service Supplier has to take care of all precautions, which are mentioned in the service level related "Service Partner Requirements", available on NOKIA Online. Also see ESD Protection Requirements in this Service Manual.

2. GENERAL REPAIR INFORMATION

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

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

Downloads > Support Library >

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

Use General SB-217 as a reference or overview.

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



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3. PATHFINDER FOR WORKSHOP STAFF

This is the NOL page (NOKIA Online) which is currently available in Europa, Middle East and Africa only!

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

It is mandatory to watch for newest technical and organizational information on a daily basis to be updated as required (see **"Latest files in Support Library"**). Every new information has to be processed and implemented as soon as possible.

When logged into NOL you can also find needed information in different folder like:

Support Library



Service Manuals Service Bulletins Software Repair Information

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

Former NOKIA CarePoint content, such as	Product	Troubleshootir t information – Disassembly,		can be found on NOKIA Online
Nokia 1100 Technical Training - Microsoft Inter Nokia 1100 Technical Nokia 1100 Technical Nokia 1100 Technical Nokia 1100 Technical	Training	? Help	Bite map Glossary Close	NOKIA Online
	Nokia 1100 Techni This training offers a qu how to repair and use t	uick overview of the Nokia 11	00 phone and support for	Care Services
NDIKLA	Overview & Guides	Disassembly & Assembly	Troubleshooting	Training
0 1 00 200 00 3 4 00 3 00 100 0 3 00 3 00 100 0 3 00 100 0 0 0 0 0	Get a quick overview of the phone and how to use it.	Learn how to remove and reassemble the mechanical parts of the phone.	Fixes for most common problems with the Nokia phone.	Phone Models
	Copyright ও Nokia 2004. • Legal r	notice		

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

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

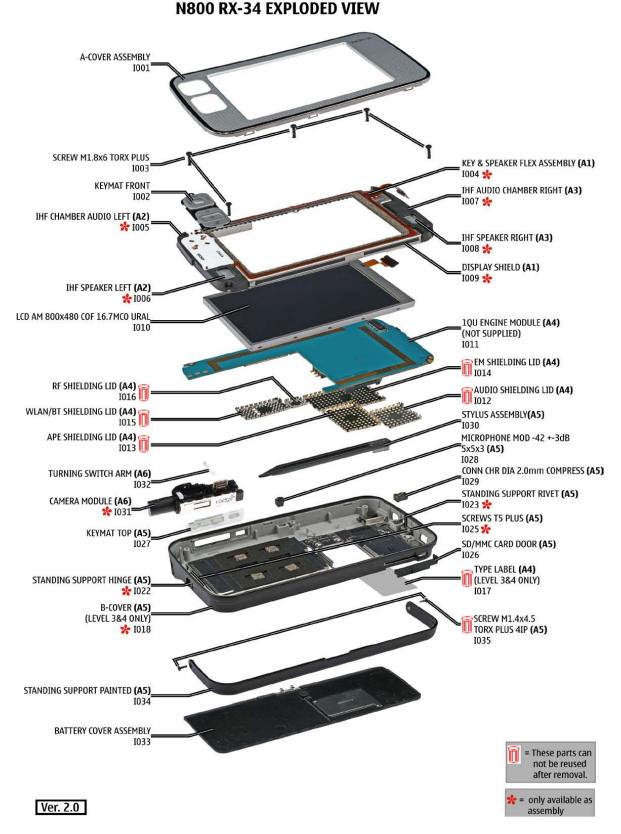
To reduce the server traffic it is recommended to download newest version of huge files like videos, Phoenix packages or Service Manuals only once and distribute it internally for further use.

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4. EXPLODED VIEW

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

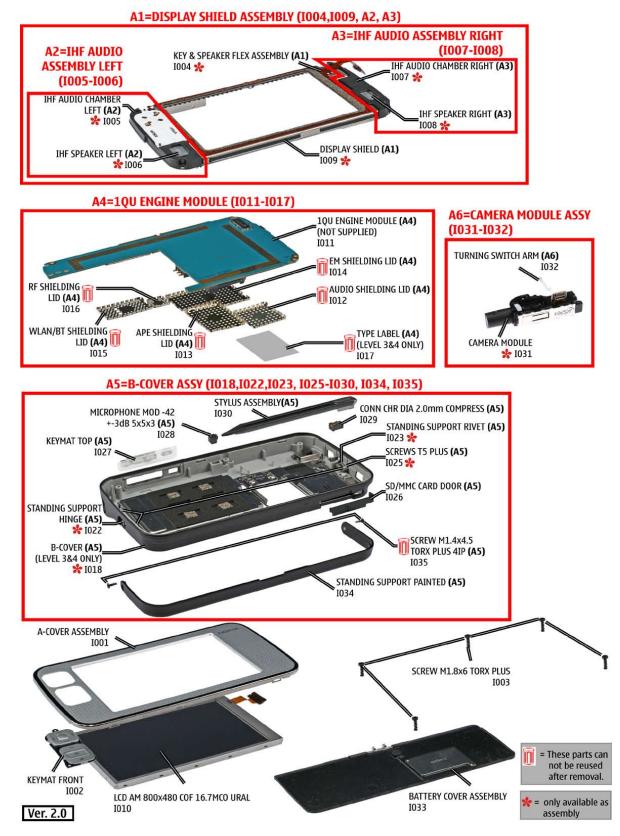


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5. SPARE PARTS OVERVIEW

N800 RX-34 SPARE PARTS OVERVIEW



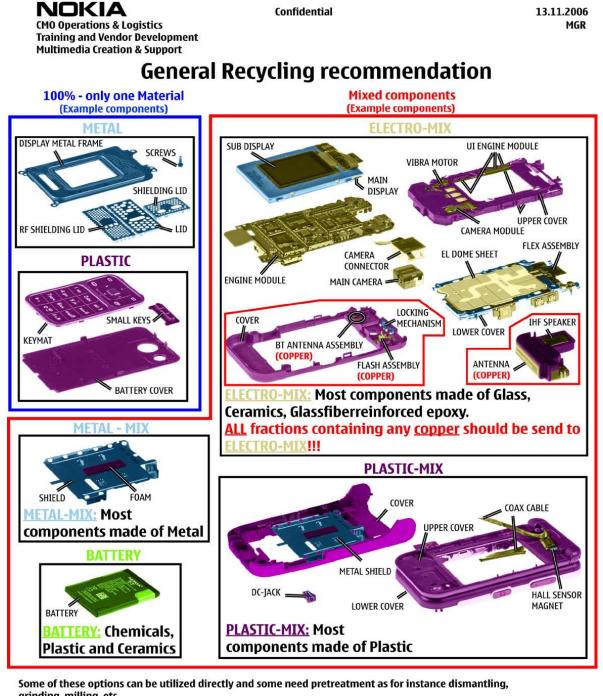
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6. GENERAL RECYCLING RECOMMENDATION



grinding, milling, etc. For sorting the waste into fractions for recycling, your recycler will offer you more specific information, but

a <u>GENERAL RULE</u> is: Elecronic Equipment: There are recyclers that can process this "multimaterial" for high recycling yields. Metals: Fractions containing metals must always be collected and sent for (metal) material recycling. Plastics: Pure plastics fractions (i.e. covers) can be sent for (plastics) materials recycling. Mixed Plastic/Metals: A metal fraction contaminated with plastics does not represent a problem for metal recycling/recovery whereas recycling/recovery of plastics is generally sensitive for contamination by other materials. ELECTRO METAL PLASTIC BATTERY

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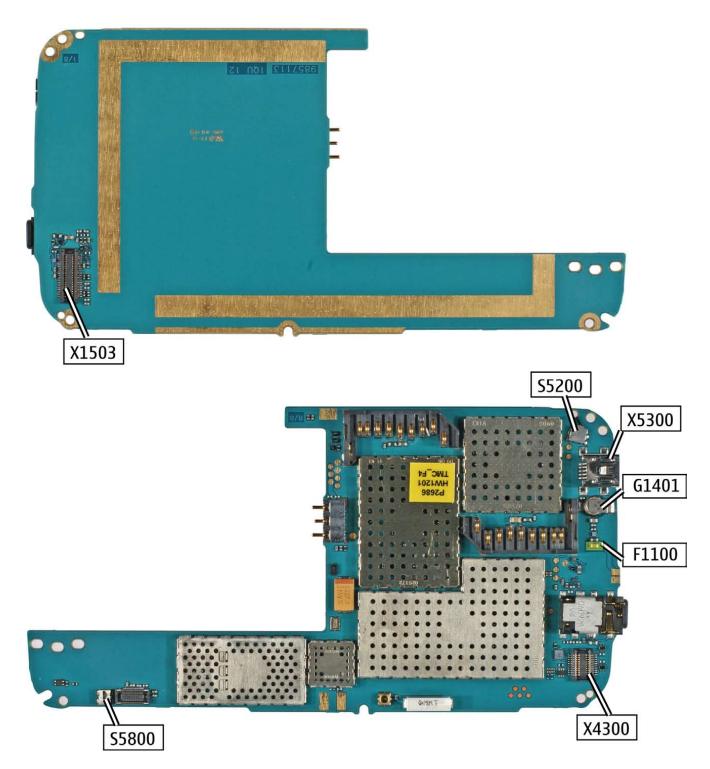
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7. LEVEL 2 SOLDER COMPONENTS

N800 RM-34 Level 2 Solder components

Solder components only for LEVEL 2



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8. NOKIA ONLINE (NOL)

NOL is the database where you can find the latest corresponding Service Bulletins (spare parts, SWAP units and service tools).

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

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

			Home User Sitemap Log Out
CONNECTING PEOPLE	Nokia Online		Search 60
Care Services			
Support Library Warranty	Info Service Points Trainin	g	
	Support Library		
	Browse file	s	
Latest files	Select category:	Phones	•
» Browse files	Select subcategory:	XXXX XXXX (XXXX)	•
	Select subcategory	Service Bulletins	
	Date range fro	m Month / Day / Year	
	un	iil: Month / Day / Year	
	Search		SEARCH
	Files for Service le	vel 2	Date:03.02.2005
	 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXX	
	<u>.</u>		
	Files for Service le	vel 1	Date:16.02.2005
	@ Nokia 2005 <u>legal not</u>	ice and site usage terms privacy policy.	



9. SERVICE TOOLS

Liser Guide	FLS-4s incl. ACF-8, Driver and User Guide Dongle and flash device incorporated into one package, devel- oped 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 BP-5L Inserted under the back cover, this Li-Ion battery provides power in a lightweight package.
	DKE-2 Service Cable to connect the PC with the Mini USB connector.
RJ-120	RJ-120 Soldering Jig

NOKIA Care CMO Operations & Logistics Training and Vendor Development Multimedia Creation & Support	Page 12 (32) CONFIDENTIAL	Approved 2.0 MGR 14.Mrz.2007
Control Contro	Lead-free Solder Wire Mandatory for lead-free products (Level 2 only).	
<section-header><section-header><text></text></section-header></section-header>	0772040 NMP Standard Toolkit (V2) For more informations refer to the Service Bulleti NOKIA Online. Supplier or manufacturer contacts for tool re-ord found in " Recommended service equipment " NOKIA Online.	er can be



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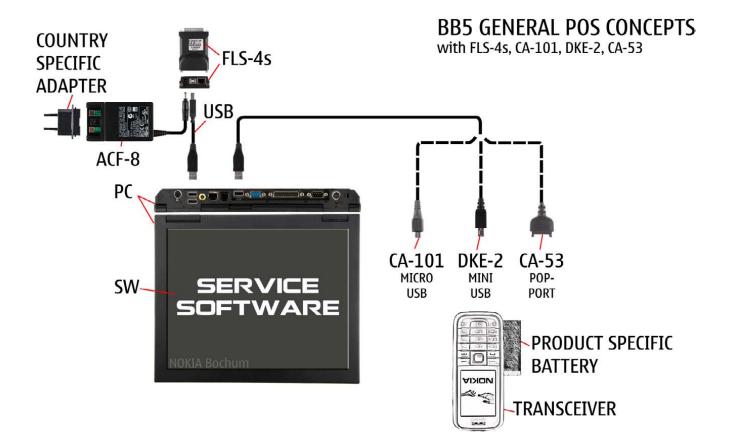
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10.SW-UPDATE

Flash Concept – (Point of Sales)

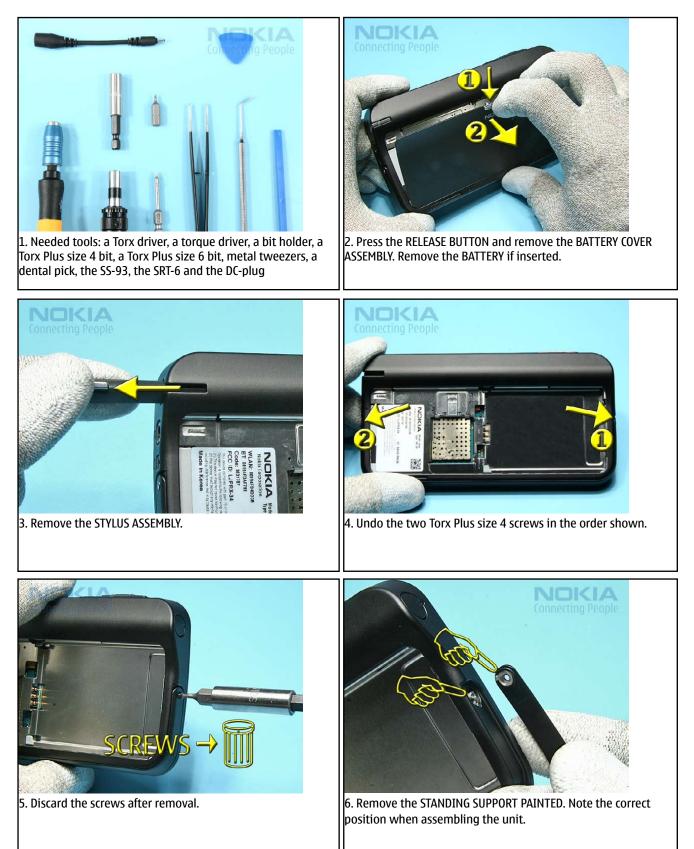
To use FLS-4s Flash Dongle you have to follow the user guide inside the sales package. Please check always for the latest version of flash software, which is available on <u>NOKIA Online</u>.





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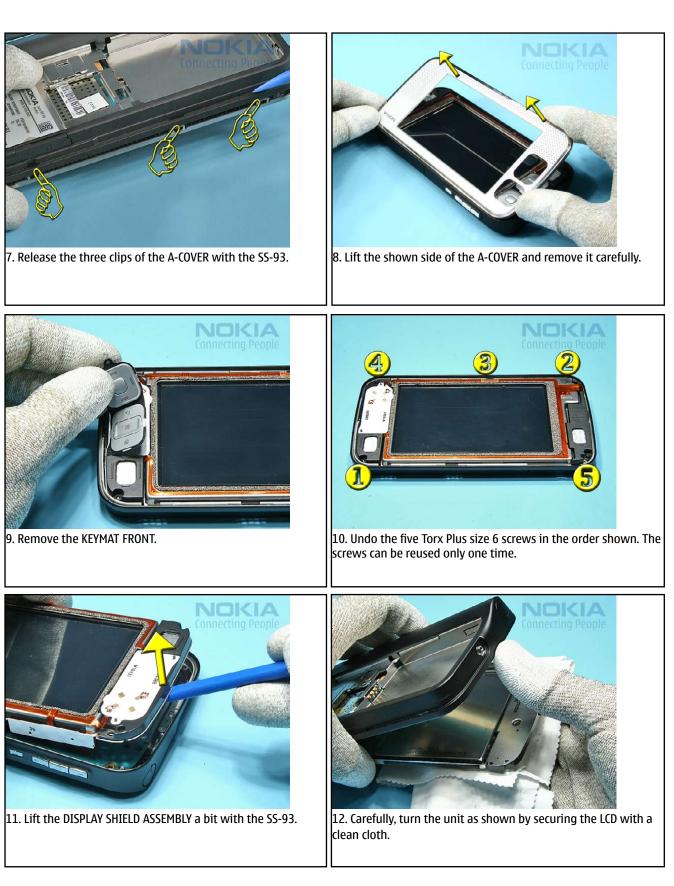
11.DISASSEMBLY INSTRUCTION





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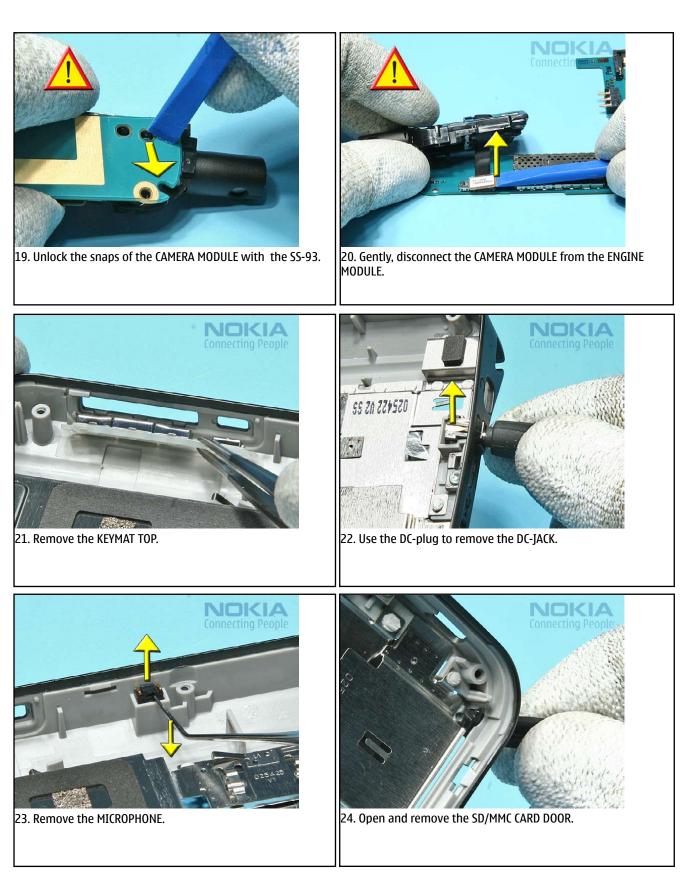
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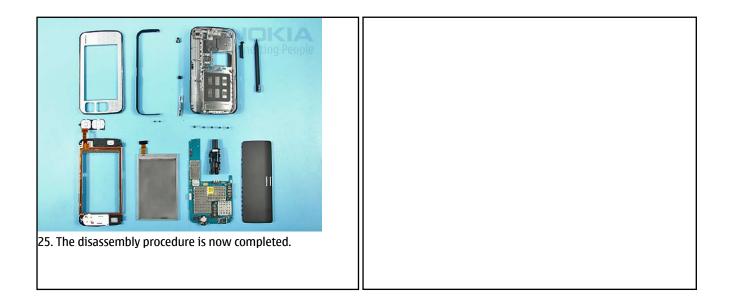














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12.ASSEMBLY HINTS



1. Take special care to the KEYMAT TOP during assembly of the B-COVER, it must not shift from its place. First align the connectors with the corresponding openings in the B-COVER, then push in the CAMERA MODULE and assemble the parts carefully.



2. Set the torque driver to the torque of 27 Ncm and tighten the Torx Plus size 6 screws in the order shown.



3. Gently, align the A-COVER with the B-COVER avoiding bending the hooks.



4. Move the shown side of the A-COVER downwards...



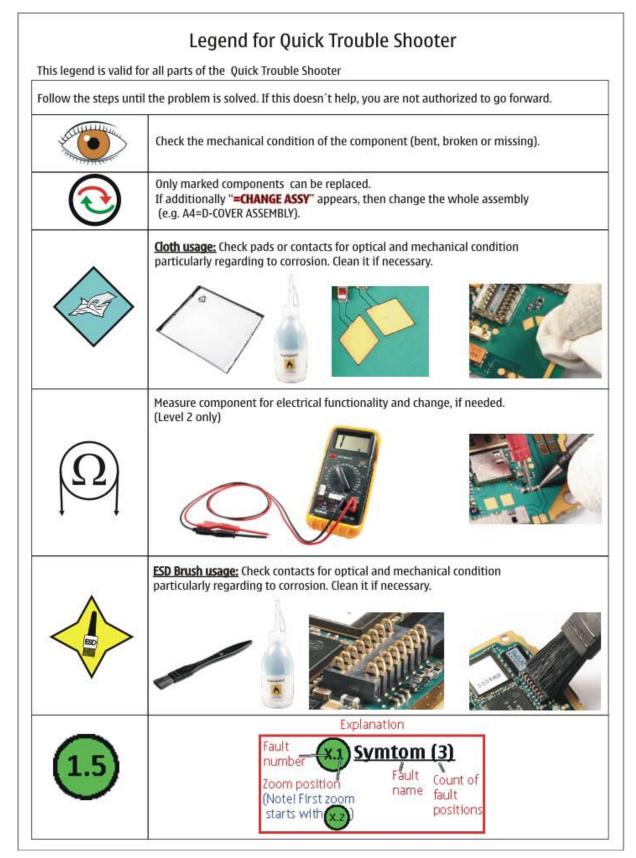
5. and carefully press it in to place.



6. Always use new screws when assembling STANDING SUPPORT PAINTED. Set the torque driver to the torque of 12 Ncm and tighten the Torx Plus size 4 screws in the order shown.

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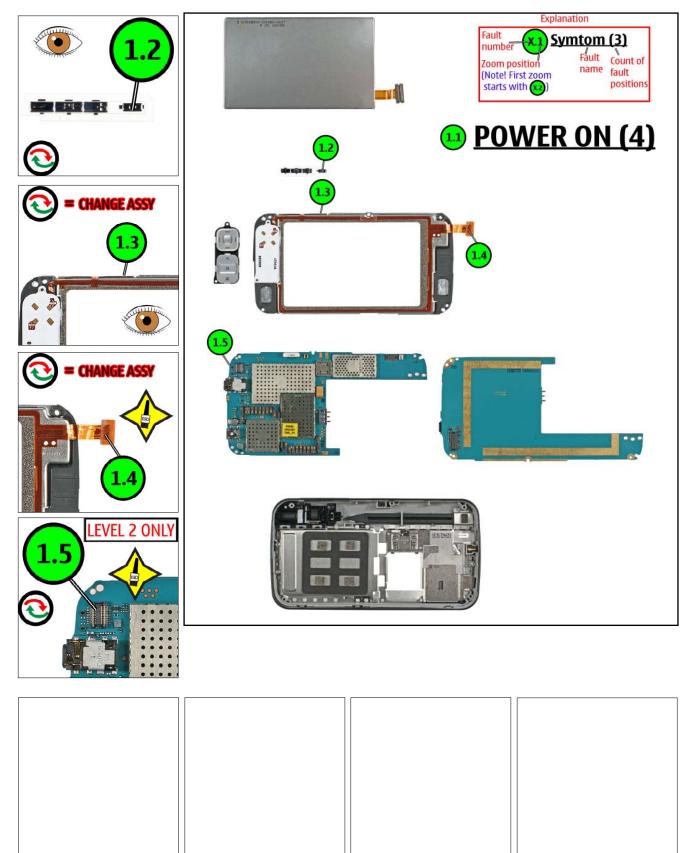
13.LEGEND FOR QUICK TROUBLE SHOOTER



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14.QUICK TROUBLE SHOOTER - POWER ON



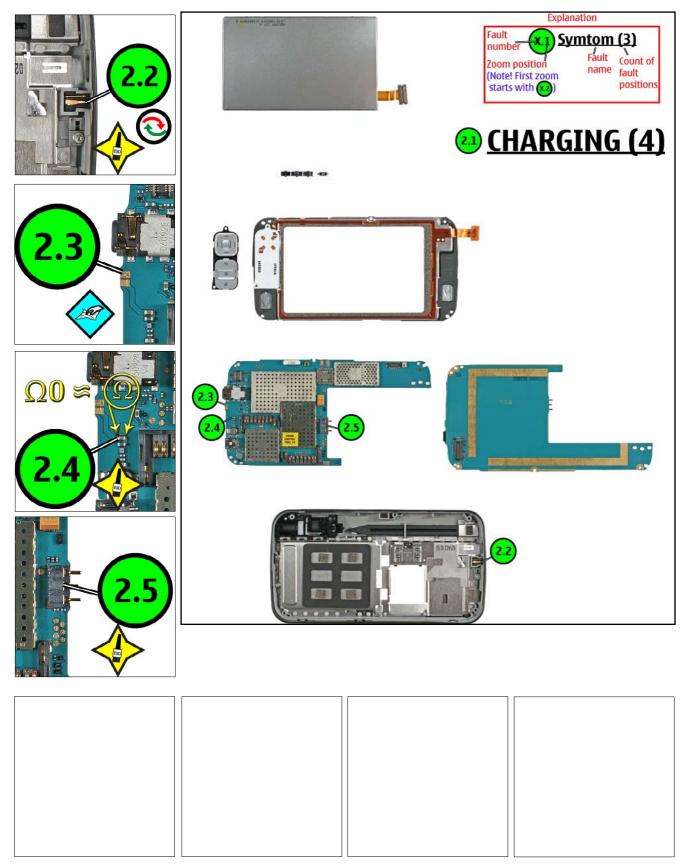


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15.QUICK TROUBLE SHOOTER - CHARGING

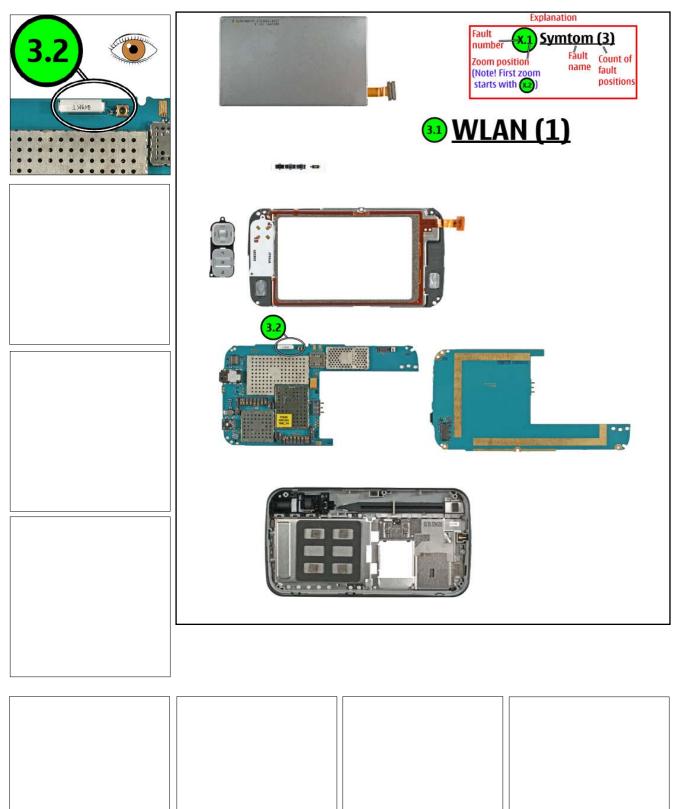


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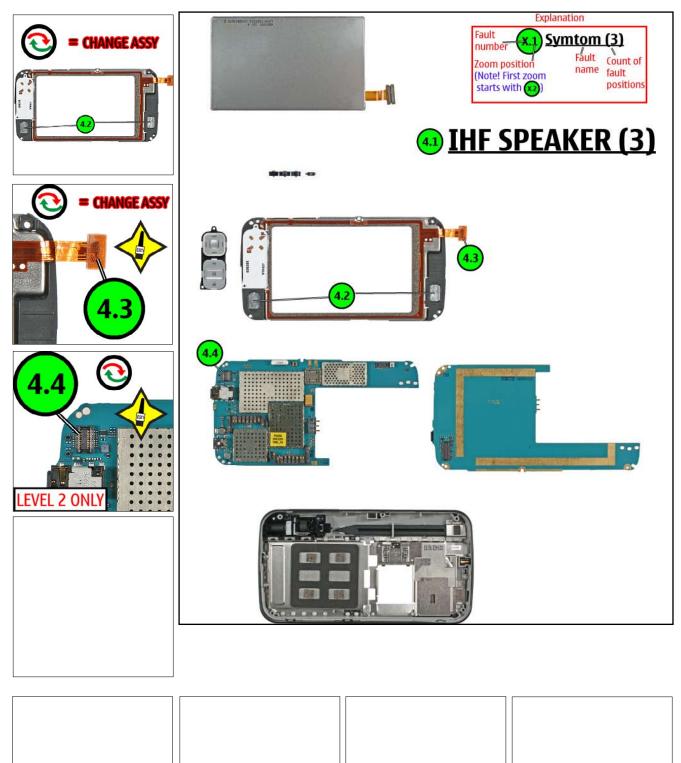
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16.QUICK TROUBLE SHOOTER - WLAN



17.QUICK TROUBLE SHOOTER - IHF SPEAKER



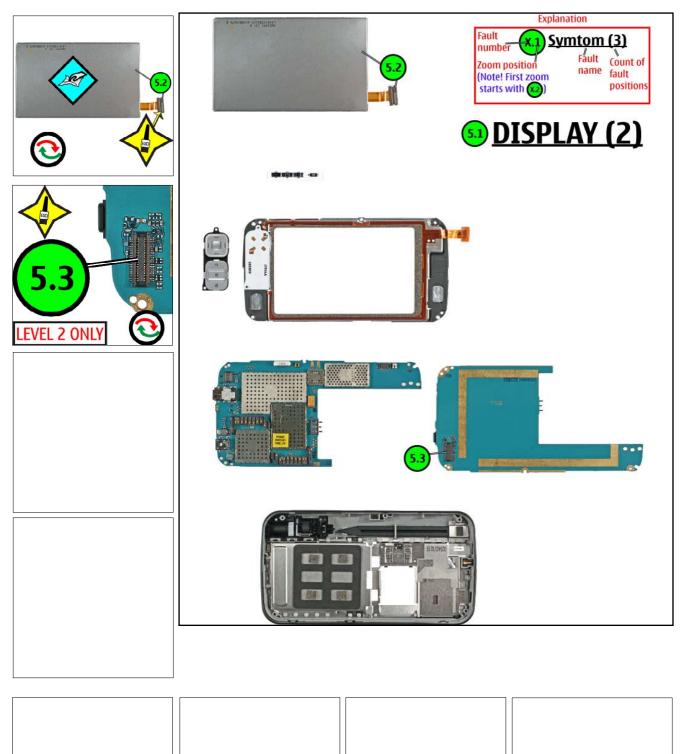


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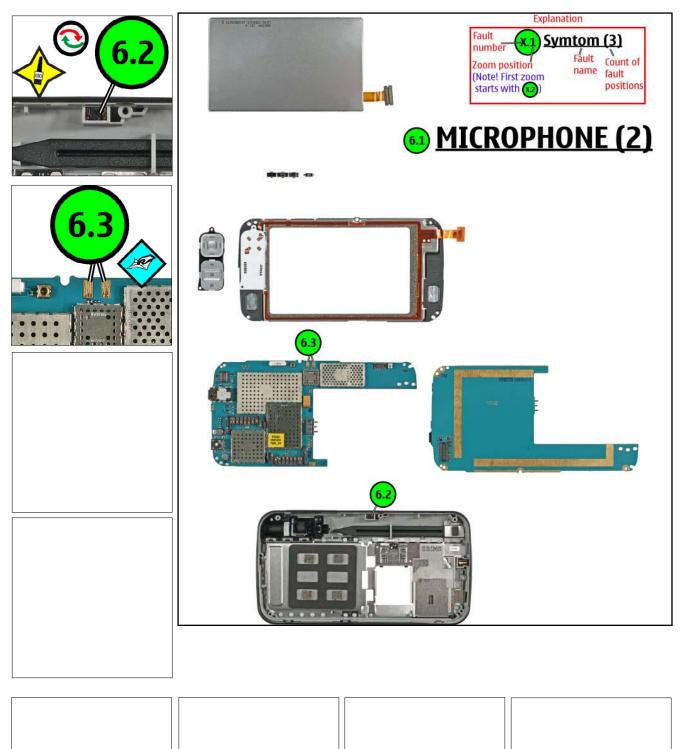
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18.QUICK TROUBLE SHOOTER - DISPLAY



19.QUICK TROUBLE SHOOTER - MICROPHONE

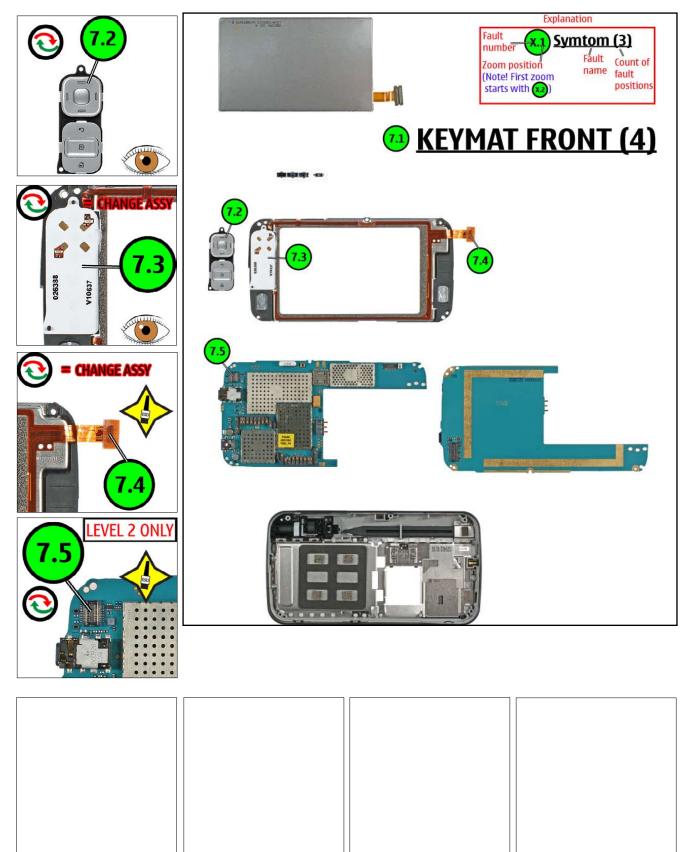




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20.QUICK TROUBLE SHOOTER - KEYMAT FRONT

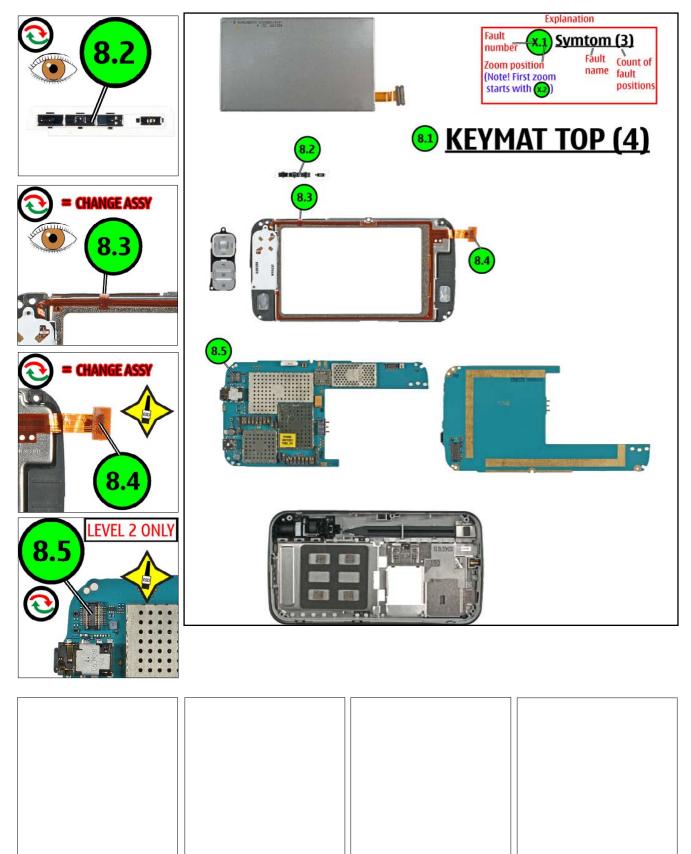




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21.QUICK TROUBLE SHOOTER - KEYMAT TOP

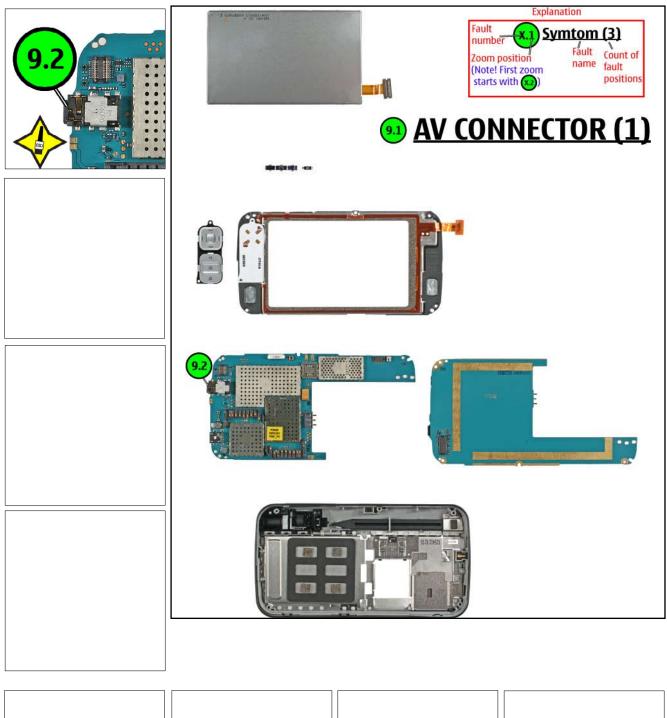




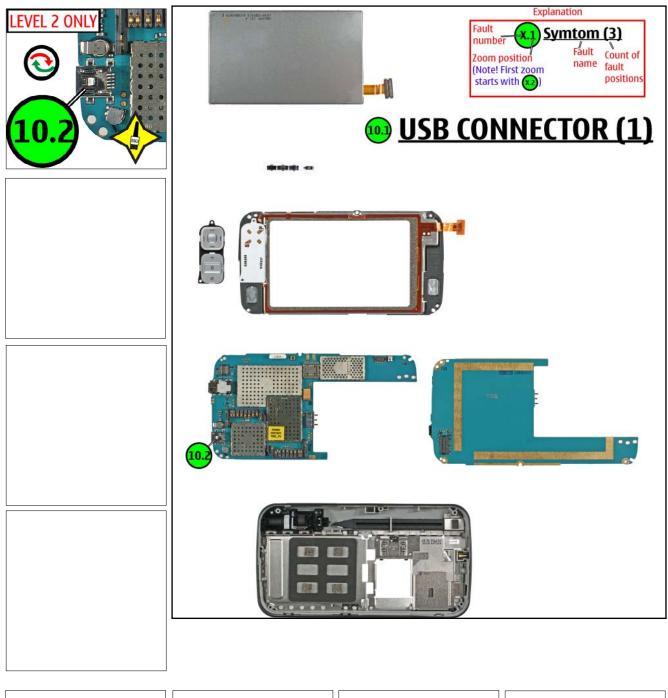
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22.QUICK TROUBLE SHOOTER - AV CONNECTOR

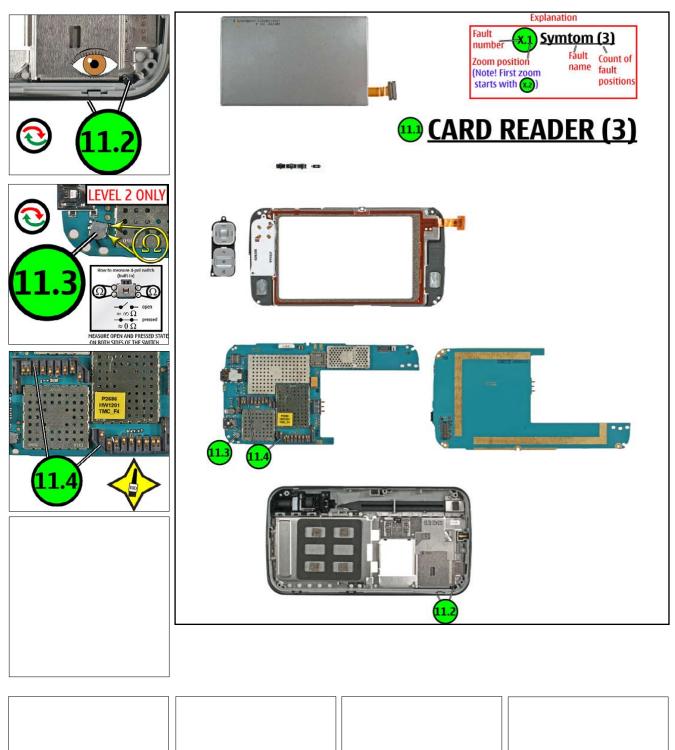


23.QUICK TROUBLE SHOOTER - USB CONNECTOR



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	11	11
	11	11

24.QUICK TROUBLE SHOOTER - CARD READER





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25.QUICK TROUBLE SHOOTER - CAMERA

