

Applicable for J100a, J100c and J100i

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1 General

This document outlines the mechanical repairs that should be made in an attempt to fix the common failures that are seen in the field. To gain a complete understanding of how to test and repair a specific failure, this document should be used in conjunction with the Test Instructions, Mechanical and the Working Instructions, Mechanical.

1.1 Service functions in the software

There are two different service menus.

#82#; Here you will find information about software and hardware versions.

#890#; Here you will find the test menu.

The test menu will looks like this:

Keypad

Vibrator

- LCM ; Display test
- Buzzer ; Ring signal test
- Voice loop back ; Microphone and speaker test

NOTE: Different names may occur depending on language setting and customization.



1.2 Misuse and other no warranty issues

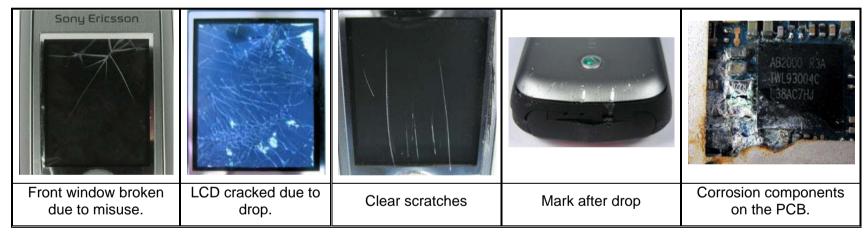
Misuse is not covered by warranty. This chapter will explain what's <u>not</u> covered by warranty. Phones that have been exposed to misuse will not be covered by warranty.

This means: if it is possible to repair the phone, the customer will have to pay for the repair. SEMC will not allow any of these phones to be claimed into WCMS. Some local perspectives may interfere with this. Please reference to local directives.

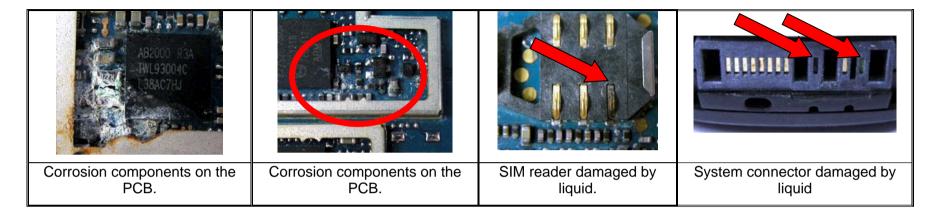
1.2.1 Action

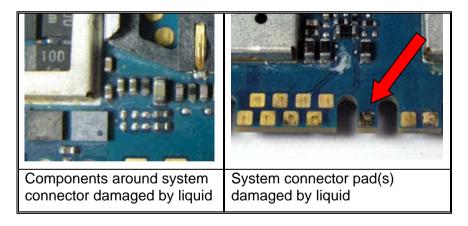
Make a general visual inspection for misuse.

Below are some **examples** of what is not covered by warranty.





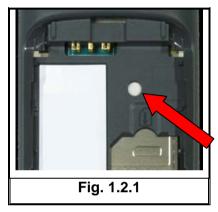






1.2.2 Liquid damage sticker

In the phone there is placed a sticker that can give you a hint to see if the phone is damage by liquid or not. This sticker is located near the SIM reader (Fig. 1.2.1) and it is possible to see it without disassemble the phone.



On the pictures below you will see the different between a sticker that has been in contact with liquid (Fig. 1.2.3) and with one that hasn't (Fig. 1.2.2).

This sticker is ok	This sticker <u>is not</u> ok	
		The white sticker that has been in contact with liquid turns into a red or pink sticker. In this case you should check the phone for liquid damage (See point 1.1.1).
		Note: There must be clear marks after liquid on the PCB before rejecting the phone for repair.
Fig. 1.2.2	Fig. 1.2.3	



1.2.3 Action

Make a general visual inspection for misuse, corrosion or oxidation from liquid damage. No further action should be taken for a liquid damaged phone. Handle the unit according to local directives.



2 Appearance Problems

Problem Area	Items to Check	Repair Action	Reference Image
Appearance	Visually inspect the cosmetic quality of all user viewable surfaces	 If dirty – Clean parts as necessary. If unacceptably scratched or damaged – Replace damage parts as necessary. 	Sony Ericason
		NOTE: Misuse is not covered by warranty. Refer to <u>chapter 1.2</u>	
	Visually inspect keypad	If dirty – Clean keypad.	
		 If unacceptably scratched or damaged – Replace keypad. 	1 100 2 00 300 1 1 400 5 30 600 1 1 7000 1 800 9 000 1 1 7000 1 800 9 000 1
		NOTE: Misuse is not covered by warranty. Refer to <u>chapter 1.2</u>	
	Visually inspect for improper gap between seams	Reassemble or replace damaged parts as necessary.	



3 Network/Signal Problems

Problem Area	Items to Check	Repair Action	Reference Image
No Signal or Poor signal.	Visually inspect antenna contact pads	If dirty or oxidized – Clean the pads and replace the antenna assembly.	
	Visually inspect antenna	 If dirty or oxidized – Replace it. If damaged – Replace it. 	
	If the issue has not been resolved \rightarrow	Handle the unit according to local directives.	



4 On/Off Problems

Problem Area	Items to Check	Repair Action	Reference Image
Power On problems	Check whether the phone vibrates 10 to 15 seconds after pressing the power key and whether the keypad illuminates	 If activation of the vibrator or keypad are detected, refer to the "Display Problems" <u>chapter 7</u> 	
	Visually inspect contact pads on battery	If dirty or oxidized – Clean pads.	
		 If damaged – Replace the battery. 	
	Visually inspect the power key	 If damaged – Replace the Dome Foil. 	
	If the issue has not been resolved \rightarrow	Handle the unit according to local directives.	



5 Audio Problems

Problem Area	Items to Check	Repair Action	Reference Image
Microphone:	Visually inspect the microphone's external port	If clogged - Clean or replace Rear cover.	
	If the issue has not been resolved →	Replace microphone	
	If the issue has not been resolved \rightarrow	Handle the unit according to local directives.	



Trouble Shooting Guide, Mechanical

Problem Area	Items to Check	Repair Action	Reference Image
Earphone: No sound or poor	Visually inspect earphone's external port	 If clogged – Clean or replace front cover. 	Sung Elesautr
quality sound	Visually inspect speaker's dust cloth	 If dirty or damaged – Replace front cover. 	
	If the issue has not been resolved →	Replace earphone.	
	If the issue has not been resolved \rightarrow	Handle the unit according to local directives.	



Problem Area	Items to Check	Repair Action	Reference Image
Loudspeaker:	Visually inspect the loudspeaker's dust	If dirty or damaged – replace Rear	
No sound or poor quality sound	cloth	cover	
	If the issue has not been resolved →	Replace loudspeaker.	
	If the issue has not been resolved \rightarrow	Handle the unit according to local directives.	



6 Key Problems

Problem Area	Items to Check	Repair Action	Reference Image
Keypad: A key on the keypad is not functioning or it is intermittent	Visually inspect for dirt between keypad and dome foil, and for damage to the keypad or the dome foil.	 If dirty – Clean both parts. If damaged - Replace keypad and/or dome foil if necessary. 	
	If the issue has not been resolved →	 Replace the dome foil, if it has not already been replaced. 	
	If the issue has not been resolved \rightarrow	Handle the unit according to local directives.	



7 Alert Problems

Problem Area	Items to Check	Repair Action	Reference Image
Vibrator:	Before proceeding →	Perform a flash upgrade and a setting reset.	
	Visually inspect the vibrator pads on the PCB	If dirty or oxidized – Clean them.	
	Visually inspect the vibrator	If dirty or oxidized – Replace it.	
		If damaged – Replace it.	



8 SIM Problems

Problem Area	Items to Check	Repair Action	Reference Image
SIM undetected (Insert SIM)	Inspect SIM holder	 If dirty or oxidized – Clean. If damaged – Send to an electrical repair location. 	
Unit indicates that an incorrect SIM is inserted (Insert correct SIM)	Check if the phone is locked to a particular carrier and whether the correct carrier's SIM is being used	Use Correct Carrier SIM or test SIM.	
	If the issue has not been resolved \rightarrow	Handle the unit according to local directives.	



9 Charging/Capacity Problems

Problem Area	Items to Check	Repair Action	Reference Image
Battery will not charge	Visually inspect the contact pads of the battery	 If dirty or oxidized – Clean. If damaged – Replace battery. 	
	Visually inspect the system connector If the issue has not been resolved →	 If dirty, oxidized or damaged – Replace. Handle the unit according to local 	
		directives.	



10 Revision History

Rev.	Date	Changes / Comments
A	2006-04-10	First release