

# Trouble Shooting Guide, Electrical

Applicable for J100a, J100c and J100i

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# 1 General

The purpose of this document is to indicate the electrical level repair actions associated with the different failure symptoms.

For symptoms that have multiple repair actions, the repair actions are listed in order of their probability of creating a successful repair. The first action has the highest probability, and subsequent actions have lower probabilities. The intention is for the repair technician to implement the first repair action and then retest the phone. If the phone continues to fail the same test, then the technician should continue to the second repair action. If the phone continues to fail the same test after all of the repair actions are exhausted, then the phone will be considered not repairable at this level.

This document should be used only after the actions from the Mechanical Trouble Shooting Guide have been exhausted for the specific symptom.

Voltage, current, and resistance information is provided for some symptoms to enable faster repairs. Perform current measurements using a dummy battery and power supply with digital current display. The phone should be fully assembled. Perform voltage and resistance measurements with a multimeter. Purchasing this equipment and performing these measurements is optional but recommended.



## 2 Repair Actions for Manual Test Failures

Failure	Failure Symptom	Repair Action
<b>2.1 Power on/off</b>	Can't power on	• Replace U19 (Battery connector)
	Current draw when powered off	• Replace C105
<b>2.2 Audio</b>	Earphone problem	• Replace BL1
	Loudspeaker problem	• Replace J6 (Speaker connector)
	Microphone problem	• VR25
<b>2.3 SIM</b>		• Replace CON1 (SIM reader)
<b>2.4 Display</b>		• Replace U21 (Display)
<b>2.5 Illumination</b>	Display Illumination	• Replace U21 (Display)
	Keyboard Illumination	• Replace D4-D9
<b>2.6 Alert</b>	Vibrator problems	• Replace F1
<b>2.7 Network</b>		• Replace C105

### 3 Revision History

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