



Trouble Shooting Guide, Electrical

Applicable for MD300

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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 unit. If the unit continues to fail the same test, then the technician should continue to the second repair action. If the unit continues to fail the same test after all of the repair actions are exhausted, then the unit will be considered not reparable 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 information is provided for some symptoms to enable faster repairs. Purchasing this equipment and performing these measurements is optional but recommended.

Voltage measurements: Using the diode scale, measure DC voltage from the designated pins with black and red leads applied as stated.

For Example: The measurement from Pin 1 with Black lead to Pin 2 with Red lead is designated as follows.

1B-->2R=0.6Vdc

<p>Measure Diode Voltage (VDC →→)</p>  <p>Multimeter</p>	<p>Perform voltage measurements with a multimeter.</p>
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2 Repair Actions for Test Failures

Failure	Failure Symptom	Repair Action
2.1 Identification	Sony Ericsson window does not illuminate and computer does not recognize product	<ul style="list-style-type: none">• Replace X1000 if damaged• Replace X1201 if damaged• N601
	Sony Ericsson window illuminates but computer does not recognize product	<ul style="list-style-type: none">• D1000
	Voltage Measurements	<ul style="list-style-type: none">• V600: 1B-->2R=0.6Vdc• V800: CatB-->AnR=0.16Vdc• V1503: 1B-->2R=0.6Vdc• V1504: 8B-->3R=2.3Vdc
2.2 Navigation		<ul style="list-style-type: none">• Replace X201 if damaged• Inspect Capacitor Bank for burned parts. Replace as necessary. C1900-C1903, C1905-C1908 C1910, C1912-C1916 C1918-C1922, C1924-C1927 C1929• V1500: 1B-->2R=0.4Vdc• N1501
2.3 Illumination	Computer identifies and navigates with product successfully, but Sony Ericsson window does not illuminate when product is plugged in	<ul style="list-style-type: none">• Replace X1201 if damaged• V1200-V1202: 1B-->2R=0.8Vdc
2.4 SIM	Incorrect SIM or Insert SIM error appears	<ul style="list-style-type: none">• Replace X1201 if damaged

3 Revision History

Rev.	Date	Changes / Comments
1	2008-Mar-12	Initial Release