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GE Energy

Functional Testing Specification*Parts & Repair Services
Louisville, KY***LOU-GED-DS200PTBAG1A****Test Procedure for a DS200PTBAG1A card****DOCUMENT REVISION STATUS:** Determined by the last entry in the "REV" and "DATE" column

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	Jill Hardin	08/18/2010
B	Corrected steps and amended table for easier use	S. Pharris	11/30/2010
C	Added step 6.1.2, on burn-in requirements, none needed.	C. Wade	12/17/2013
D	In section 6.1.1 added comments (Red) to four steps	S. Cash	8/26/2014

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DATE 8/18/2010	DATE 11/30/2010	DATE 8/26/2014	DATE 8/18/2010

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1. SCOPE

1.1 This is a functional testing procedure for a terminal board.

2. STANDARDS OF QUALITY

2.1 Refer to the current revision of the IPC-A-610 standard for workmanship standards.

3. APPLICABLE DOCUMENTS

3.1 The following document(s) shall form part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue shall apply.

3.1.1 Check board's electronic folder for more information

4. ENGINEERING REQUIREMENTS

4.1 Equipment Cleaning

4.1.1 Equipment should be clean and free of debris prior to applying power unless performing an initial check. Refer to site specific SRA's for cleaning guidelines.

4.2 Equipment Inspection

4.2.1 Equipment should be visually inspected for any defects prior to applying power. This inspection should include the following as a minimum:

4.2.1.1 Wires - broken, cracked, or loosely connected

4.2.1.2 Terminal strips / connectors - broken or cracked

4.2.1.3 Components - visually damaged

4.2.1.4 Capacitors - bloated or leaking

4.2.1.5 Solder joints - damaged or cold

4.2.1.6 Circuit board - burned or de-laminated

4.2.1.7 Printed wire runs / Traces - burned or damaged

5. EQUIPMENT REQUIRED

5.1 The following equipment is required to perform the process requirements. Equipment may be substituted provided that all accuracy's and test ratios are equivalent or better.

Qty	Reference #	Description
1		Fluke 87 DMM (or Equivalent)

6. TESTING PROCESS

6.1 Testing Procedure

6.1.1 Please check the following points. For those reading at “0” ohm, tolerance will be +- 1 ohm. All other readings will be +- 5%.

FROM	TO	Reading in Ohms	Notes
TB-1	JU-1	0	
TB-1	JJR-1	0	
TB-1	JJS-1	0	
TB-1	JJT-1	0	
TB-2	JJR-2	0	
TB-2	JJS-2	0	
TB-2	JJT-2	0	
TB-2	JU-2	0	
TB-3	JU-3	0	
TB-3	JJR-3	0	
TB-3	JJS-3	0	
TB-3	JJT-3	0	
TB-4	JJR-4	0	
TB-4	JJS-4	0	
TB-4	JJT-4	0	
TB-4	JU-4	0	
TB-5	JU-5	0	
TB-5	JJR-5	0	
TB-5	JJS-5	0	
TB-5	JJT-5	0	
TB-6	JJR-6	0	
TB-6	JJS-6	0	
TB-6	JJT-6	0	
TB-6	JU-6	0	
TB-7	JU-7	0	
TB-7	JJR-7	0	
TB-7	JJS-7	0	
TB-7	JJT-7	0	
TB-8	JJR-8	0	
TB-8	JJS-8	0	
TB-8	JJT-8	0	
TB-8	JU-8	0	

FROM	TO	Reading in Ohms	Notes
TB-9	JU-9	0	
TB-10	JU-10	0	
TB-9	TB-10	0	Is an open will only be different if MOV's shorted
TB-11	JU-11	0	
TB-12	JU-12	0	
TB-11	TB-12	0	Is an open will only be different if MOV's shorted
TB-13	JVA-1	2.7K	
TB-14	JU-19	3.3K	
TB-15	JVA-2	2.7K	
TB-16	JU-20	3.3K	
TB-17	JVA-3	2.7K	
TB-18	JU-21	3.3K	
JU-13	JU-19	1.5K	
JU-13	JU-20	1.5K	
JU-13	JU-21	1.5K	
TB-19	JVA-4	2.7K	
TB-20	JU-22	3.3K	
TB-21	JVA-5	2.7K	
TB-22	JU-23	3.3K	
TB-23	JVA-6	2.7K	
TB-24	JU-24	3.3K	
JU-13	JU-22	1.5K	
JU-13	JU-23	1.5K	
JU-13	JU-24	1.5K	
JU-13	JU-25	1.5K	
JU-13	JU-26	1.5K	
TB-25	JVA-7	2.7K	
TB-26	JU-25	3.3K	
TB-27	JVA-8	2.7K	
TB-28	JU-26	3.3K	
TB-29	JV-1	155 ohms	
TB-30	JV-2	155 ohms	
TB-31	JV-3	155 ohms	
TB-32	JV-4	155 ohms	
TB-33	JV-5	155 ohms	
TB-34	JV-6	155 ohms	
TB-35	JN-4	0	

From	TO	Reading in Ohms	Notes
TB-36	JN-5	0	
TB-37	JM-6	0	
TB-38	JM-3	0	
TB-38	TB-39	0	Remove is an external jumper on schematic-open
TB-39	TB-40	0	
TB-41	JN-6	Diode Drop	Negative lead on TB-41
TB-38	TB-41	Diode Drop	Positive lead on TB-41
TB-42	JM-11	0	
TB-43	JN-1	0	
TB-44	TB-45	0	
TB-46	TB-47	0	
TB-48	JN-2	0	
TB-49	JN-2	0	
TB-48	TB-49	0	
TB-50	TB-51	0	
TB-52	TB-53	0	
TB-54	TB-55	0	
TB-56	JN-3	0	
JU-15	JN-7	0	
JU-16	JN-8	0	
JU-14	JN-9	0	
TB-57	JM-1	0	
TB-58	TB-59	0	
TB-58	JM-4	0	
TB-59	JM-4	0	
TB-60	JM-5	0	
TB-61	TB-70	0	
TB-61	JM-2	0	
TB-62	TB-63	0	
TB-62	TB-71	0	
TB-63	TB-71	0	
TB-62	JM-7	0	
TB-63	JM-7	0	
TB-64	JM-8	0	
TB-65	JM-9	0	
TB-66	JM-10	0	
TB-67	TB-62	0	
TB-67	TB-63	0	
TB-67	TB-69	0	

FROM	TO	Reading in Ohms	Notes
TB-68	JM-12	0	
TB-70	JM-2	0	
TB-61	TB-70	0	
TB-72	JN-10	0	
TB-73	TB-74	1.45M	
TB-73	JV-7	0	
TB-74	JV-8	0	
TB-75	TB-76	1.45M	
TB-75	JV-9	0	
TB-76	JV-10	0	
TB-77	TB-78	1.45M	
TB-77	JV-11	0	
TB-78	JV-12	0	
JU-18	JN-12	0	
JU-17	JN-11	0	

6.1.2 For all normal repairs; card does not have any active components so unit does not require any burn-in.

6.1.3 *****TEST COMPLETE*****

7. NOTES

7.1 None at this time.

8. ATTACHMENTS

8.1 None at this time.