



GE Energy

Functional Testing Specification

Parts & Repair Services
Louisville, KY

LOU-GED-DS200SSBAG1

Test Procedure for a DS200SSBAG1A or G1B


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REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	Steve Pharris	1/25/2012
B	Added steps 6.1.18 thru 6.1.23 to instruction for the DS200SSBAG1B card	G. Chandler	1/16/2013
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PREPARED BY Steve Pharris	REVIEWED BY G. Chandler	REVIEWED BY	QUALITY APPROVAL 
DATE 1/25/2012	DATE 1/16/2013	DATE	DATE 1/25/2012

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1. SCOPE

1.1 This is a functional testing procedure for a DS200SSBAG1A or G1B

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)

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6. Testing Process

6.1 Testing Procedure

- 6.1.1 Verify continuity from eyelet 1 to one side of MOV1 (side not closest to R37)
- 6.1.2 Verify eyelet 1 to eyelet A = 112K ohms
- 6.1.3 Verify open from eyelet A to eyelet B (checks for shorted MOV3)
- 6.1.4 Verify eyelet 2 to eyelet A = 112K ohms
- 6.1.5 Verify continuity from eyelet 2 to one side of MOV2 (side closest to eyelet 3)
- 6.1.6 Verify K3A to K3 = less than 1 ohm
- 6.1.7 Verify continuity from K3A to other side of MOV's 1 and 2 (MOV1 side closest to R37, MOV2 side closest to K3)
- 6.1.8 Verify open from eyelet 1 to K3 (checks for shorted MOV1)
- 6.1.9 Verify open from eyelet 2 to K3 (checks for shorted MOV2)
- 6.1.10 Verify continuity from KF to eyelet C
- 6.1.11 Verify continuity from FCPL1 to T1-1
- 6.1.12 Verify continuity from FCPL2 to T1-2
- 6.1.13 Verify eyelet 3 to eyelet A charges (checks C7)
- 6.1.14 Verify eyelet C to eyelet B charges (checks C6)
- 6.1.15 Verify R37 = 82 Ohms
- 6.1.16 Verify R38 = 82 Ohms.
- 6.1.17 End of test for G1A versions
- 6.1.18 For G1B versions only
- 6.1.19 Using an ohmmeter verify that D1 and D2 test good, forward and reverse bias, and are mounted in the correct polarity.
- 6.1.20 Verify with an ohmmeter that R39 measures between 3.99 and 5.41 ohms.
- 6.1.21 Verify continuity between eyelet C and the cathode side of D2.
- 6.1.22 Verify continuity between the anode of D1 and R39.
- 6.1.23 Verify continuity between R39 and A3 faston.

6.2 *****TEST COMPLETE *****

7. Notes

- 7.1 None at this time.

8. Attachments

- 8.1 None at this time.