



GE Energy

Functional Testing Specification

*Parts & Repair Services
Louisville, KY*

LOU-GED-3S7930NA158G5

Test Procedure for a diode card.

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1. SCOPE

1.1 This is a functional testing procedure for a Card.

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 Setup

6.1.1 This card consists of 3 sets of connectors with 1 single diode between them and 3 sets of connectors with 2 diodes in series between them.

6.1.2 Using a multimeter set on diode check verify a single diode drop of 0.5 to 0.6VDC between the following points.

POS +	NEG -
Tab 5	Tab 11
Tab 4	Tab 10
Tab 3	Tab 9

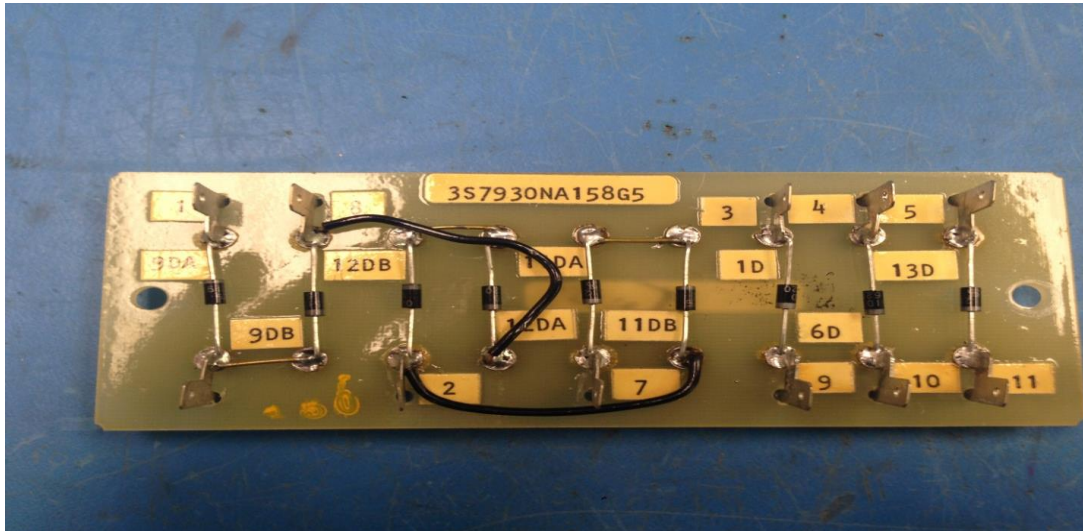
6.1.3 Reverse the polarity of the meter and verify open circuit between tabs.

6.1.4 Verify a 2 diodes in series voltage drop of 1.0 to 1.2VDC between the following points.

POS +	NEG -
Tab 8	Tab 1
Tab 2	Tab 8
Tab 2	Tab 7

6.1.5 Reverse the polarity of the meter and verify open circuit between tabs.

6.1.6 Use the photo to verify all jumper wires are installed properly.



6.2 *TEST COMPLETE *****

7. Notes

7.1 None at this time.