



GE Energy

## Functional Testing Specification

*Parts & Repair Services  
Louisville, KY*

**LOU-GED-3S7930NA158G6**

### Test Procedure for a diode card.

**DOCUMENT REVISION STATUS:** Determined by the last entry in the "REV" and "DATE" column

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	G. Chandler	2/18/2014
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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)

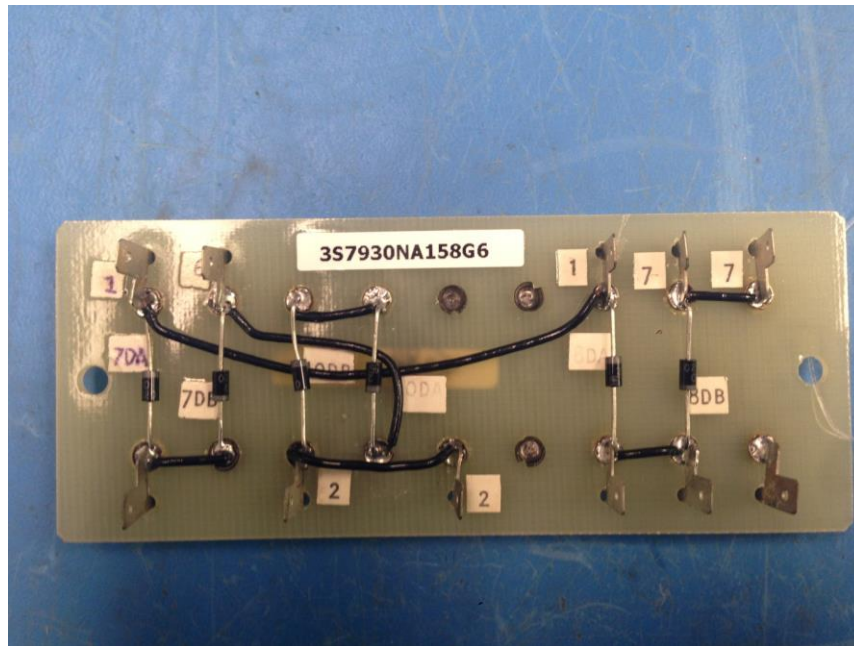
## 6. Testing Process

### 6.1 Setup

- 6.1.1 This card consists of 3 sets of connectors with 2 diodes in series between each.
- 6.1.2 Using a multimeter set on diode check verify a 2 diodes in series voltage drop of 1.0 to 1.2VDC between the following points.

POS +	NEG -
Tab 6	Tab 1
Tab 7	Tab 1
Tab 2	Tab 6

- 6.1.3 Reverse the polarity of the meter and verify open circuit between tabs.
- 6.1.4 Use the photo to verify all jumper wires are installed properly.



- 6.1.5 End of test.

### 6.2 \*\*\*TEST COMPLETE\*\*\*

## 7. Notes

- 7.1 None at this time.

## 8. Attachments

- 8.1 None at this time.