



GE Energy

Functional Testing Specification

Parts & Repair Services
Louisville, KY

LOU-GED-IC3600KRSR1

Test Procedure for a Reed Relay 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	6/7/2010
B	Added lines about relay contact readings	G. Chandler	7/3/2013
C			

© COPYRIGHT GENERAL ELECTRIC COMPANY

Hard copies are uncontrolled and are for reference only.

PROPRIETARY INFORMATION – THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF GENERAL ELECTRIC COMPANY AND MAY NOT BE USED OR DISCLOSED TO OTHERS, EXCEPT WITH THE WRITTEN PERMISSION OF GENERAL ELECTRIC COMPANY.

PREPARED BY G. Chandler	REVIEWED BY G. Chandler	REVIEWED BY	QUALITY APPROVAL <i>Charlie Wade</i>
DATE 6/7/2010	DATE 7/3/2013	DATE	DATE 7/3/2013

LOU-GED-IC3600KRSR1 REV. A	g GE Energy <i>Parts & Repair Services</i> <i>Louisville, KY</i>	Page 2 of 3
-------------------------------	---	-------------

1. SCOPE

1.1 This is a functional testing procedure for a Reed Relay 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)
1		20VDC Power Supply

6. TESTING PROCESS

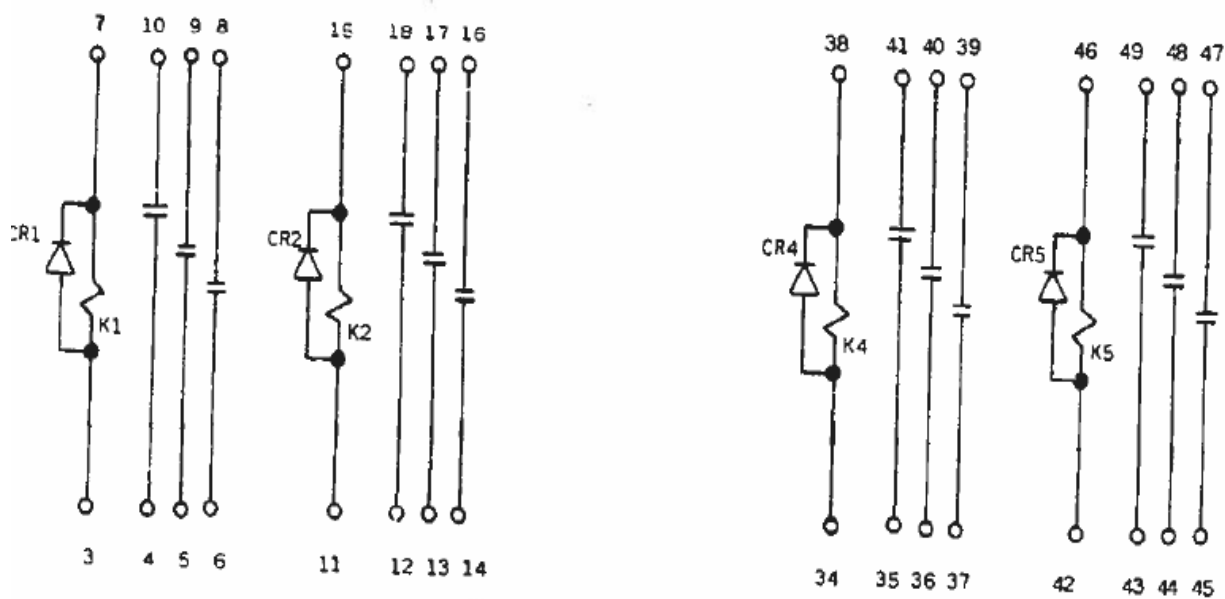
6.1 Testing Procedure

- 6.1.1 Apply +16VDC to pins 7, 15, 38, and 46.
- 6.1.2 Common to pins 3, 11, 34, and 42.
- 6.1.3 Verify that all contact are < 1 ohm; 4 to 10, 5 to 9, 6 to 8, 12 to 18, etc.. See picture of circuit for clarity.
- 6.1.4 Adjust the +16VDC to 1.8VDC, all relays must release and contacts are > then 1M ohms, 4 to 10, 5 to 9, 6 to 8, 12 to 18, etc.. See picture of circuit for clarity.

6.2 ***TEST COMPLETE***

7. NOTES

- 7.1 Description of circuit.



8. ATTACHMENTS

- 8.1 None at this time.