g GE Industrial Systems	**Functional Testing Specification**
Renewal Services ***Louisville,KY***	**LOU–GED-193X709xx**

Test Procedure for a 193X709AAG01

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	Steve Pharris	8/8/02
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PREPARED BY	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL
Steve Pharris			Robert Dunell
DATE	**DATE**	**DATE**	**DATE**
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Functional test procedure for 193X709AAG01

1. SCOPE

1.1 This is a functional testing procedure for a. 193X709AAG01

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

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 the local documented procedures 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 or cracked
  - **4.2.1.2** Terminal strips / connectors broken or cracked
  - **4.2.1.3** Loose wires
  - **4.2.1.4** Components visually damaged
  - **4.2.1.5** Capacitors leaking
  - **4.2.1.6** Solder joints damaged or cold
  - **4.2.1.7** Circuit board burned or de-laminated
  - **4.2.1.8** Printed wire runs 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 85 DMM (or Equivalent)
1		Rainbow Box
2		10K Ohm Resistors
1		193X Connector Box
2		Power Supplies

6. TESTING PROCESS

6.1 Setup

6.1.1 Place Resistors in connectors on top of rainbow box.

6.1.2 Set power supply 1 for 20VDC.

6.1.3 Set power supply 2 for 10VDC.

6.1.4 Make all connections as per wiring diagram.

6.2 Testing Procedure

6.2.1 Place all switches left.

6.2.2 Insert card and energize both power supplies.

6.2.3 Move switch 1 to the right. DVM should read less than 50mVDC.

6.2.4 Move switch 1 to the left and switch 2 to the right and reverse the leads on power supply 2 so that a negative voltage is produced. DVM should read –10VDC.

6.2.5 Move switch 2 to the left. DVM should read +10VDC.

6.2.6 Move switch 2 to the right and reverse the leads to power supply 2 so that a positive voltage is produced. DVM should read +10VDC.

6.2.7 Move switch 2 to the left. DVM should read –10VDC.

6.2.8 Turn off power supplies.

6.3 ***TEST COMPLETE ***

7. NOTES