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GE Industrial Systems

## Functional Testing Specification

*Renewal Services  
Louisville, KY*

**LOU-GED-193X709xx**

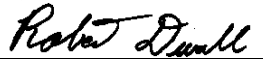
### Test Procedure for a 193X709AAG01

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REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	Steve Pharris	8/8/02
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<b>DATE</b> 8/8/02	<b>DATE</b>	<b>DATE</b>	<b>DATE</b> 08/09/02

## 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

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## 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

