



GE Energy

## Functional Testing Specification

*Parts & Repair Operations  
Louisville, KY*

**LOU-GEF-IC600ARTH  
Series Six I/O Control Card**

### Test Procedure for a Series Six Arithmetic Control card.

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## 1. SCOPE

- 1.1 This is a functional testing procedure for the IC600CB502, 512 and 524 Series Six Arithmetic Control cards.

## 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 None at this time

## 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, 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		Series Six CPU-3 <u>MAIN</u> rack
1		Series Six CPU-3 <u>LOCAL</u> rack

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## 6. Testing

### 6.1 Setup

- 6.1.1 Turn of the power to the rack.
- 6.1.2 Remove the shop card from slot 9.
- 6.1.3 Insert customers card into slot 9.

### 6.2 Test Process

- 6.2.1 Connect the data cable from the Logic Control card (slot 10) to the customer's card.
- 6.2.2 Turn on the power to the rack.
- 6.2.3 Press the master reset button "I-201", which is located at the top left corner of the Series Six master panel.
- 6.2.4 Ensure that the I/O cards in the CPU-2 LOCAL rack, light in a scrolling fashion.
- 6.2.5 Allow the card to burn in for at least 15 minutes.
- 6.2.6 Turn off the power to the rack.
- 6.2.7 Remove the customer's card from slot 9.
- 6.2.8 Insert shop card into slot 9.
- 6.2.9 Turn on the power to the rack.

### 6.3 \*\*\*TEST COMPLETE\*\*\*

## 7. NOTES

- 7.1 None at this time

## 8. ATTACHMENTS

- 8.1 None at this time