| g GE Industrial Systems | **Functional Testing Specification** |
|---|---|
| ***Renewal Services***<br>***Louisville, KY.*** | **LOU-GEF-WMII-** |

**Test Procedure for: Work Master II w/ Series 6 Interface**

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

| REV. | DESCRIPTION | SIGNATURE | REV. DATE |
|---|---|---|---|
| A | Initial release | *Jeffrey D. Barton* | *10/23/2002* |
| B | | | |
| C | | | |

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| **Jeffrey D. Barton** | | | Robert Duvall |
| **DATE**<br>**3/17/202123/2002** | **DATE** | **DATE** | **DATE**<br>10/24/2002 |

**Functional test procedure for: Test Procedure.doc**

## 1. SCOPE

**1.1** This is a functional testing procedure for a: Test Procedure.doc

## 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.
**2.1.1**

## 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 | | P70 Configuration Software |
| 1 | | "The Troubleshooter" Diag. Software |
| 1 | | Series 6 Software and Cable |
| 1 | | Series 6 CPU w/ I/O |
| 1 | | DVM |

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## 6. TESTING PROCESS

### 6.1 Setup

**6.1.1** Install power cable to UUT.

**6.1.2** Connect Series 6 Cable to UUT Series 6 Interface Card and Series 6 CPU.

### 6.2 Testing Procedure

**6.2.1** Power up UUT.

**6.2.2** Verify UUT boots to Hard Drive; DOS prompt. If UUT fails to boot to H/D, run P70 Configuration S/W and follow directions prompted on display.

**6.2.3** Verify UUT reads Floppy disks.

**6.2.4** Reboot UUT with “The Troubleshooter” diag. software. Verify all peripherals pass that are needed for the operation of UUT. (i.e. keyboard, processor, hard drive and controller, motherboard, display.)

**6.2.5** Reboot UUT.

**6.2.6** Using Series 6 software, (accessed by either hard drive or floppy drive), Verify communication with Series 6 CPU and displaying program from Series 6 CPU.

**6.2.7** Power off UUT.

**6.2.8** Remove main rear cover.

**6.2.9** Remove Series 6 Interface card.

**6.2.10** Verify CMOS Battery’s voltage above +5.7Vdc. (If not It must be replaced.)

**6.2.11** Install Series 6 Card back into UUT.

**6.2.12** Power up UUT and verify boot to hard drive; DOS prompt.

**6.2.13** Reassemble UUT rear cover.

***6.3 ***TEST COMPLETE ******

## 7. NOTES:

## 8. Oscilloscope Verification Examples:

**Fig. 1**

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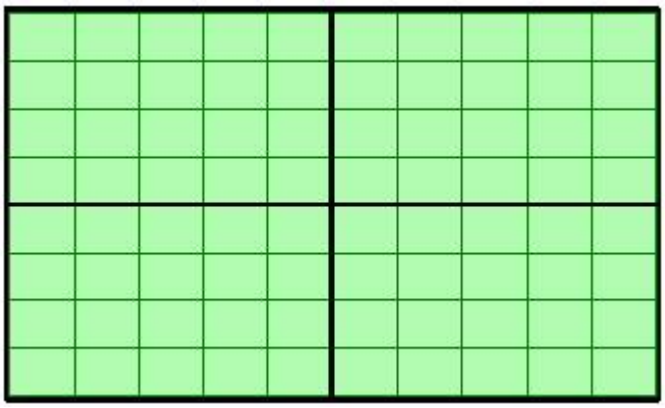
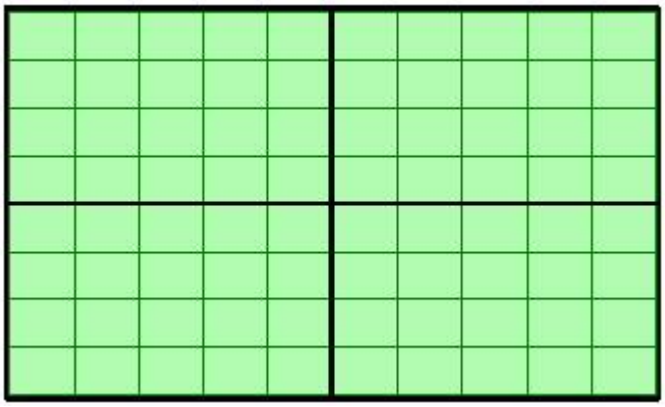


**Fig. 2**



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