



GE Energy Services

## Functional Testing Specification

*Inspection & Repair Services  
Louisville, KY*

**LOU-GEF-RSD3**

### Test Procedure for RSD3 & RSD3A Printed Circuit Boards.

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	Rick Diercks	12/08/2008
B			
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.

<b>PREPARED BY</b> Rick Diercks	<b>REVIEWED BY</b>	<b>REVIEWED BY</b>	<b>QUALITY APPROVAL</b> <i>Charlie Wade</i>
<b>DATE</b> 12/08/2008	<b>DATE</b>	<b>DATE</b>	<b>DATE</b> 12/8/2008

Functional test procedure for RSD3 Tape Reader board

**1. SCOPE**

- 1.1 This specification provides the Engineering Requirements for testing the 44A398793-G01.

**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 | <b>GEK-36093</b> | Diagnostic Software for 1050T Controls        |
| 3.1.2 | <b>GEK-45668</b> | Computer Access Panel                         |
| 3.1.3 | <b>GEK-45650</b> | Instructions for 150-CPS Taper Reader/ Reeler |

**4. ENGINEERING REQUIREMENTS**

4.1 Description

- 4.1.1 RSD3- Reader Spooler Drive Amplifier Board for the 150-CPS Taper Reader/Reeler 3N3200TR103A1 and 3N3200TR103B1.

4.2 Equipment Cleaning

- 4.2.1 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.

4.3 Equipment Inspection

- 4.3.1 Equipment should be visually inspected for any defects prior to applying power. This inspection should include the following as a minimum:

- |         |  |
|---------|--|
| 4.3.1.1 | Wires broken or cracked                        |
| 4.3.1.2 | Terminal strips / connectors broken or cracked |
| 4.3.1.3 | Loose wires                                    |
| 4.3.1.4 | Components visually damaged                    |
| 4.3.1.5 | Capacitors leaking                             |
| 4.3.1.6 | Solder joints damaged or cold                  |
| 4.3.1.7 | Circuit board burned or de-laminated           |
| 4.3.1.8 | 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	GE 1050T	CPU3 Model
1	GE Computer Access Panel	External Interface
1	Diagnostic Tape Specific to Control	Diagnostic Tape
1	Executive Tape Specific to Control	Executive Tape

<p><b>LOU-GEF-RSD3 REV. A</b></p>	<p><b>g</b></p> <p><b>GE Energy Services</b> <i>Inspection &amp; Repair Services</i> <i>Louisville, KY</i></p>	<p><b>Page 3 of 3</b></p>
---------------------------------------	--	---------------------------

## 6. TESTING PROCESS

### 6.1 Functional Testing

- 6.1.1 Loading Tape Test (Diagnostic and Exec Tapers).
- 6.1.2 Remove existing board from 1050T Test Control' Tape Reader/Reeler and insert BUT (Board Under Test).
- 6.1.3 Install Diagnostic Tape on to Taper Reader/ Reeler.
- 6.1.4 Turn control ON Check and check CAP Panel, if FFFE does not register on panel with the Display Selector Switch in the "Prog Cntr" position, do not go any further, troubleshoot Control.
- 6.1.5 Load Diagnostic tape by depressing "Load Tape" Switch on Cap Panel, Tape should run and Reeler should pick up tape.
- 6.1.6 When the first portion of the tape has finished loading the display should read **"CPU TEST COMPLETE"**.
- 6.1.7 Then depress "Load Tape" to start loading second portion of tape.
- 6.1.8 Load third portion of the diagnostic tape, by toggling "Load Tape" switch. When tape finishes loading, it should rewind back to the beginning of tape. When displays reads **"TURN CONTROL OFF, THEN CONTROL ON"**. Turn off Control.
- 6.1.9 Remove Diagnostic Tape and install Exec Tape.
- 6.1.10 Turn the 1050T Control on.
- 6.1.11 Load Exec Tape by depressing "Load Tape" Switch Tape should run and Taper Reeler should pick up tape. The whole tape should run through and rewind.

### 6.2 TEST COMPLETE

## 7. NOTES

- 7.1 None at this time

## 8. REFERENCES

- 8.1 None at this time