



GE Energy

Functional Testing Specification

Parts & Repair Services
Louisville, KY

LOU-GED-531X307LTBAHG1

Test Procedure for a 531X307LTBA_G1 (H or earlier)

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DATE 08/26/2011	DATE	DATE	DATE 8/26/2011

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1. SCOPE

1.1 This is a functional testing procedure for a 531X Terminal Board.

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 Check board's electronic folder for more information

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 site specific SRA's 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	H033760	DC2000 Drive

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This test is for boards that are revision 'H' or earlier only!

6. Modifications/Upgrades

6.1 Check Orange Book for any modifications or upgrades.

7. Testing Process

7.1 Setup

7.1.1 Remove 531X307LTBA shop board from drive. Install board to be tested. Make all necessary connections.



Note: Change optocouplers (U1-U8) and capacitors (C1-C8).

7.2 Testing Procedure

7.2.1 Check power supply jacks for no shorts.

7.2.2 Apply power (P11B09).

7.2.3 Check test panel for drive to see that all amber lights and 1FAPL are lite.

7.2.4 Press IN1-8 button, lights should switch from amber to red.

7.2.5 Press CI1-8 button, lights should switch from amber to red.

7.2.6 Check voltages to make sure nothing is being loaded on the board.

7.3 *TEST COMPLETE *****

8. Notes and attachments

8.1 None at this time.