



GE Energy

Functional Testing Specification

Parts & Repair Services
Louisville, KY

LOU-GEF-BKPN7

Test Procedure for BKPN7 Backplane Board

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DATE 12/29/2011	DATE	DATE	DATE 12/29/2011

<p>LOU-GEF-BKPN7 REV. A</p>	<p>g</p> <p>GE Energy Parts & Repair Services Louisville, KY</p>	<p>Page 2 of 3</p>
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Functional test procedure for 1050 Backplane

1. SCOPE

- 1.1 This specification provides the Engineering Requirements for testing the BKPN7 Backplane board. The process applies only to BKPN7 boards model number 44A398710-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 **GEK-36093** Diagnostic Software for 1050T Controls
 - 3.1.2 **GEK-71632** Diagnostic Software for 1050MC Controls
 - 3.1.3 **GEK-45668** Computer Access Panel

4. ENGINEERING REQUIREMENTS

- 4.1 Description: BLPN7 is the Backplane Board for 1050T/MC Controls.
- 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 site specific SRA's 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 Bent or missing Pins.
 - 4.3.1.4 Components visually damaged
 - 4.3.1.5 Solder joints damaged or cold
 - 4.3.1.6 Circuit board burned or de-laminated
 - 4.3.1.7 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

<p>LOU-GEF-BKPN7 REV. A</p>	<p>g</p> <p>GE Energy Parts & Repair Services Louisville, KY</p>	<p>Page 3 of 3</p>
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6. TESTING PROCESS

6.1 Diagnostic Test

6.2 Remove Control's BKPN7 and install the BKPN7 to be tested.

6.2.1 Load the Diagnostic Tape.

6.2.1.1 Once the tape is fully loaded it will rewind back to the beginning (Before Test No. 1). The Display should show: Push Control OFF, then ON, follow this instruction at this time. If the Cap Panel is hooked up you will also have to hit the RUN switch to start the control's program

6.2.2 Setup the control for testing.

6.2.2.1 Press NEXT, then 2, then Cycle Start. Alphanumeric characters should scroll on the display and the Option STOP lamp should flash. Run this test for @ 1 hour.

6.2.2.2 Press Cycle Start button until display stops scrolling. Press Cycle Start button again until the Option Stop push button quits flashing. Keep depressing Option Stop until all tests are complete.

6.3 ***TEST COMPLETE***

7. REFERENCES

7.1 None at this time.

8. Attachments

8.1 None at this time.