g GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-356X777XAG01**

Test Procedure for 356X777XAG01

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	James Archibald	05/07/2012
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PREPARED BY	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL
James Archibald			Charlie Wade
DATE	**DATE**	**DATE**	**DATE**
05/07/2012			5/7/2012

1. SCOPE

1.1 This is a functional testing procedure for a option card.

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 See 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 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		DVM
1		Rainbow box
1		Adapter H033895

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6. TESTING PROCESS

6.1 Set DVM to resistance.

6.1.1 Measure between pins 40 and 42, should read 10k +/- 1%

6.1.2 Measure between pins 12 and 44, should read 47k +/- 1%

6.1.3 Measure between pins 13 and 45, should read 332k +/- 1%.

6.1.4 Measure between pins 15 and 47, should read 475 ohms +/- 1%.

6.1.5 Measure between pins 18 and 50, should read 27k +/- 1%.

6.1.6 Measure between pins 20 and 52, should read 2.2k +/- 1%.

6.1.7 Measure between pins 21 and 53, should read 2.2k +/- 1%.

6.1.8 Measure between pins 23 and 55, should read 57 ohms +/- 1%.

6.1.9 Measure between pins 22 and 25, should read 25K +/- 10%.

6.1.10 Measure between pins 59 and 27, should read 50K +/- 10%.

6.1.11 Measure between pins 64 and 62, should read 50K +/- 10%.

6.1.12 Measure between pins 57 and 22, turn SP3 from fully CW to Fully CCW should read appx 25 k +/- 10%.

6.1.13 Measure between pins 57 and 25, turn SP3 from fully CW to Fully CCW should read appx 25 k +/- 10%.

6.1.14 Measure between pins 30 and 59, turn SP2 from fully CW to Fully CCW should read appx 50 k +/- 10%.

6.1.15 Measure between pins 30 and 27, turn SP2 from fully CW to Fully CCW should read appx 50 k +/- 10%.

6.1.16 Measure between pins 32 and 64, turn SP1 from fully CW to Fully CCW should read appx 50 k +/- 10%.

6.1.17 Measure between pins 32 and 62, turn SP1 from fully CW to Fully CCW should read appx 50 k +/- 10%.

6.2 ***TEST COMPLETE **

7. NOTES

7.1 None at this time.

8. ATTACHMENTS

8.1 None at this time.

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