g GE Industrial Systems	**Functional Testing Specification**
Renewal Services ***Louisville,KY***	**LOU–GED-193X218xx**

Test Procedure for a 193X218ACG01 Pulse Transformer Card

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A	Initial release	Dan Laemmle	10/10/2002
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PREPARED BY	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL
Dan Laemmle			Robert Durell
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10/10/2002			11/04/02

Functional test procedure for 193X218ACG01

1. SCOPE

1.1 This is a functional testing procedure for a 193X218ACG01 Pulse Transformer 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.
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		Oscilloscope Tektronix 2215 (or equiv)
1		Firing Box

6. TESTING PROCESS

6.1 Setup

6.1.1

6.2 Testing Procedure

6.2.1 Connect +20 volts to terminal A, Com to terminal B. Connect Scope probe to terminal AG, com to AC. Connect positive non-isolated boost pulses to terminal DA, com to terminal HA. With equipment on, see pulse train. Increase scope time base to see an individual pulse as in Fig. 1.

6.2.2 Move scope probe to terminal BG, com to BC. Move firing pulses to terminal DB, com to terminal HB. See pulses as in step 6.2.1 above.

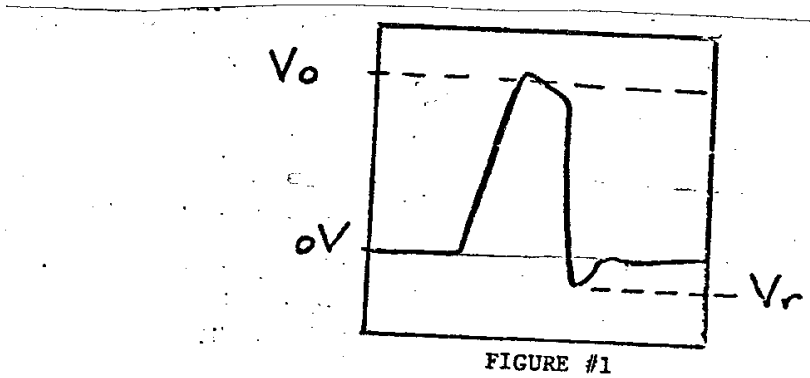

FIGURE #1
PULSE OUTPUT

*4.2.1 Vo should be greater than 3.5 VDC.
*4.2.2 Vr should be less than -1.4 VDC.

6.3 ***TEST COMPLETE ***

7. NOTES

An operational test can be performed on this unit using Test Fixture H033531 for the 193X255AAG01 Card.