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GE Industrial Systems

Functional Testing Specification

*Renewal Services
Louisville, KY*

LOU-GED-531X133PRU

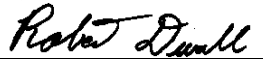
Test Procedure for a Card

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PREPARED BY J. Archibald	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL 
DATE 06/21/02	DATE	DATE	DATE 06/21/02

Functional test procedure for a DC-300 Option card.

1. SCOPE

1.1 This is a functional testing procedure for a DC-300 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.

2.1.1 **531X133PRU Documentation**

2.1.2 **531X134EPR Documentation**

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	H033766	DC-300 Test Drive

6. TESTING PROCESS

6.1 Setup

6.1.1 Set Jumper settings per Table 1.

531X133PRUA		531X134EPRB	
Jumper	Position	Jumper	Position
JP8	2-3	JP15	1-2
JP7	1-2	JP16	1-2
JP4	1-2	JP7	2-3
JP2	1-2	JP18	1-2
JP3	1-2	JP17	1-2
JP17	1-2	JP4	1-2
JP5	1-2	JP14b	2-3
JP6	1-2	JP14a	1-2
JP16	1-2	JP8	2-3
JP1	2-3	JP2	1-2
JP14	1-2	JP22	1-2
JP15	1-2	JP3	1-2
		JP11	2-3
		JP12	2-3
		JP13	1-2
		JP20	1-4
		JP19	1-4
		JP21	1-4
		JP1	2-3

Table 1

6.2 Testing Procedure

6.2.1 Install card in Fixture with power off.

6.2.2 Apply power by pulling E-Stop out.

6.2.3 Verify that the LEDs on the main control card start scrolling Right to Left.

6.2.4 Push START on the control panel.

6.2.5 Turn MSR to its mid point and verify that the motor starts to ramp up.

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6.2.6 Disconnect one side of the TACH input and verify that the drive faults.

6.2.7 Re-connect TACH wire.

6.2.8 Push STOP RESET on control panel.

6.2.9 PC Operations

6.2.9.1 Press [F8]

6.2.9.2 Press [F1]

6.2.9.3 Press [Enter]

6.2.9.4 Press [Y]

6.2.9.5 Press [A]

6.2.9.6 Verify that the upload has the same Educate and Block checksum.

6.3 *TEST COMPLETE *****

7. NOTES