g GE Industrial Systems	Test and Operating Procedure	
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DISTRICT MGR:	QUALITY REP: Robert Dunn	
TITLE: Op-Amp Circuit Card Test Instructions	PROCEDURE: 09J-GE-942D315G0003-B	

1. INTRODUCTORY DESCRIPTION

A. This procedure establishes the methods for testing a 942D315G0003
B. Environmental ranges: 70 +/- 10 Deg. F. with 20-75% R.H.
C. Unit warm-up/stabilization period requirement: 5 Minutes
D. Personnel using this procedure are expected to have a high degree of confidence and expertise in related testing and calibration procedures.
E. Procedures not explained here are considered to be understood as common practice.

2. TEST EQUIPMENT VERIFICATION

A. Verify the accuracy of the standard(s) used in the repair/calibration process by evidence of recent calibration labeling affixed to the test equipment.
B. All measurement standards used in this procedure shall be traceable to the NATIONAL INSTITUTE of STANDARDS and TECHNOLOGY (N.I.S.T.) and shall have the accuracy, stability, range and resolution required for the intended use.
C. Unless otherwise specified, the collective uncertainty of the Measurement Standard(s) shall not exceed twenty five percent of the acceptable tolerance for each characteristic being calibrated.
D. All deviations shall be documented.

3. EQUIPMENT CLEANING

A. All equipment clean will be performed as instructed in the GEES SOP Sec. 14.0

4. EQUIPMENT INSPECTION

A. The following criteria should be used as a guideline or basis for the inspection process of the this unit:
    1. Wires broken or cracked.
    2. Terminal strips / connectors broken or cracked.
    3. Loose wires.
    4. Components visually damaged.
    5. Capacitors leaking.
    6. Solder joint, cold.
    7. Circuit board discolored or burned.
    8. Printed wire runs burned or damaged.

5. REVISION HISTORY

Revision	Date	Initials	Reason for Revision
A	11/30/95	PDK	Initial Procedure – After Verification
B	06/07/02	RKD	Added section 5 & 6, Changed procedure number
C			
D			
E			
F			
G			
H			
I			
J			
K			

6. REFERENCE DOCUMENTATION

- Reference: GEK
- Factory Procedure #

7. THEORY OF OPERATION

Unit is a DC Op-Amp card.

8. TEST EQUIPMENT TO BE USED

942D315G0003 Test cable

+30 VDC Power Supply

-22 VDC Power Supply

0-1 VDC Power Supply

12 V p-p Square Wave Generator

2 Digital MultiMeters

9. FINAL TEST AND OPERATION PROCESS

- Plug test cable onto unit.
- Apply Supplies as follows

+30 V	Pin 17	Red Wire	
-22 V	Pin 21	Black Wire	
Variable	Pin ___	Brown Wire	
Commons	Pins 19 & 29	Green Wire	

- Connect Meter 1 to Variable Supply Output.
- Connect Meter 2 to Output of UUT (Blue Wire) Pin ___
- Short Output of variable supply.
- Apply power to UUT
- Verify card output is 0V. (R5 adjusts)
- Remove short from variable supply and apply .8V
- Verify that card has a gain of 10 on the output.
- Reverse Polarity on Variable supply.
- Verify that card has a gain of 10 on the output.
- **** END OF TEST ****

10. SPECIAL INFORMATION

TEST WRITTEN BY: **Paul Kelley** **DATE:** 11/30/95

TEST VERIFIED BY: _____ **DATE:** _____