

g <i>GE Industrial Systems</i>	Test and Operating Procedure	
QUALITY REP:	DATE: 03/24/00	PAGE 1 OF 4
TITLE: Test Instructions for DS200CDBAG		PROCEDURE: LOU – GED-DS200CDBA-E

1. INTRODUCTORY DESCRIPTION

- A. This procedure establishes the methods for testing a DS200CDBAGxx solenoid driver card.
- B. Environmental ranges: 70 +/- 10 Deg. F. with 20-75% R.H.
- C. Unit warm-up/stabilization period requirement: None
- 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 GE T&IC 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 or otherwise inadequate.
 - 7. Circuit board discolored or burned.
 - 8. Printed wire runs burned or damaged.

g <i>GE Industrial Systems</i>	Test and Operating Procedure	
	DATE: 03/24/00	PAGE 2 OF 4
QUALITY REP: <i>Robert Duall</i>		
TITLE: Test Instructions for DS200CDBAG		PROCEDURE: LOU – GED-DS200CDBA-E

5. REVISION HISTORY

Revision	Date	Initials	Reason for Revision
A	3-24-00	LFG	Initial Procedure – After Verification
B	06/14/02	RKD	Added Initial column to section 5.
C	11/14/06	KPG	Added switch between MPL11 & MPL12, section 9.
D	5/12/07	GC	Added change to page 4 Group B board
E	1/14/09	CW	Added new reading due to change in coil.
F			
G			
H			
I			
J			
K			

6. REFERENCE DOCUMENTATION

- Reference: GEI-100182B

7. THEORY OF OPERATION

- Reference: GEI- 100182B
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8. TEST EQUIPMENT TO BE USED

- Use asset number H188719 – Test: Load (36 Volt Coil)
- +24V DC Power Supply
- Multimeter (Fluke 85 or equiv.)
- 115VAC power cord

g <i>GE Industrial Systems</i>	Test and Operating Procedure	
	DATE: 03/24/00	PAGE 3 OF 4
QUALITY REP: <i>Robert D. Dull</i>		
TITLE: Test Instructions for DS200CDBAG		PROCEDURE: LOU – GED-DS200CDBA-E

9. FINAL TEST AND OPERATION PROCESS

- Connect load coil to **MPL** and connect **MACPL, JP2**, 1-2.
- Connect a current meter in series with the load.
- Turn Pot RV1 full counter clockwise.
- Apply 115 VAC to **ITB11 & ITB12**.
- There should be no leakage voltage at the coil and no current across amp-meter. If voltage is present correct before moving on.
- Apply +24VDC to **ITB1 (+) & ITB2 (-)**.
- Measure between **ACOMA & P15A** for +15 VDC (+20%) supply.
- Check for approx. 14VDC across load coil (**MPL1 –MPL3**)
- Current meter should read approx. .57 amps.
- Turn Pot RV1 full clockwise
- Check for approx. 58VDC across load coil (**MPL1 –MPL3**)
- Current meter should read approx. 2.3 amps.
- Turn Pot RV1 full counter clockwise
- Turn switch connected between MPL 11-12 to **ON**
- Check for approx. 97VDC across load coil (**MPL1 –MPL3**)
- Turn switch connected between MPL 11-12 to **OFF**

 **Note – these steps are only for Group B boards (ex: DS200 CDBAGXBBB).*

- Apply an additional 24VDC, (+) through a 330 ohm 5 watt resistor ITB9 and (-) to ITB10.
- Connect **JP2**, 2-3. Voltage across coil should be approx 14V. Remove +24 VDC from **ITB1 & ITB2**. (LED1 should illuminate) and voltage across coil should now go to (0Volts)
- END OF TESTING

g <i>GE Industrial Systems</i>	Test and Operating Procedure			
QUALITY REP:	DATE: 03/24/00	PAGE 4 OF 4		
<table border="0" style="width: 100%;"> <tr> <td style="width: 60%; vertical-align: top;"> TITLE: Test Instructions for DS200CDBAG </td> <td style="width: 40%; vertical-align: top;"> PROCEDURE: LOU – GED-DS200CDBA-E </td> </tr> </table>			TITLE: Test Instructions for DS200CDBAG	PROCEDURE: LOU – GED-DS200CDBA-E
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10. SPECIAL INFORMATION

TEST WRITTEN BY:	Lloyd Groves	DATE:	03/24/2000
TEST REWRITTEN BY:	David Smith	DATE:	11/14/2006
TEST REVERIFIED BY:	Kenny Greenwell	DATE:	11/14/2006