



GE Energy

## Functional Testing Specification

Parts & Repair Services  
Louisville, KY

LOU-GED-6VHHP10A1

### Test Procedure for a DC300 Hand Held Programmer

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## 1. SCOPE

1.1 This is a functional testing procedure for a DC300 Hand Held Programmer

## 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 Check board's 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 site specific SRA's 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	H033766	DC-300 Drive

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## 6. TESTING PROCESS

### 6.1 Testing Procedure

- 6.1.1 Plug 18PL cable into 18PL connector on the DC300's control (531X300CCH) card.
- 6.1.2 Apply power to DC-300 test drive by pulling E-Stop out.
- 6.1.3 The 531X300CCH card's LEDs should scroll from right to left continuously.
- 6.1.4 If no faults occur, run a SCR Test.
- 6.1.5 On keypad of unit under test (UUT), push "SET, DRV, 77, Enter/reset". Diagnostics will be displayed on the hand held programmer.
- 6.1.6 Push "Test " and test will be displayed.
- 6.1.7 Push "12" and enter, contactor will pull in and out.
- 6.1.8 Display will read "FL96 PASS".
- 6.1.9 Push "RESET" on UUT and display will read "OPERATE". After 10 seconds display will read "M 00% 00%".
- 6.1.10 Push "RUN" and motor will run.
- 6.1.11 Push "INC" and Ref# will go up. Push "DEC" and Ref# will go down.
- 6.1.12 Push "STOP" and motor will stop.
- 6.1.13 Push "RESET" and RESET will be displayed.
- 6.1.14 To test keypad numbers push "SET,DRIVE 11, 22, 33, 44, 55, 66, 77, 88, 99, 00.

### 6.2 \*\*\*TEST COMPLETE \*\*\*

## 7. NOTES

- 7.1 None at this time.

## 8. ATTACHMENTS

- 8.1 None at this time.