Parts & Repair Services *Louisville, KY*	**Functional Testing Specification** **LOU-GED-DS3800HLNC-B**

Test Procedure for a

DOCUMENT REVISION STATUS: Determined by the last entry in the "REV" and "DATE" column

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Transferred from paper to electronic format	J. Wychulis	7/15/2011
B	Added photos, burn in steps, corrected errors	J Morgan	6/30/2023
C			

PREPARED BY	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL
J MORGAN			
DATE 6/30/2023	**DATE**	**DATE**	**DATE**

1. SCOPE

1.1 This is a functional testing procedure for a DS3800HLNC Card.
1.2 This is a re-write of the original factory test with pictures and clarity.

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		Fluke 87 DMM (or Equivalent)
1	H033689	FVE

6. Modifications/Upgrades

6.1 Fill out if applicable.

7. Testing Process

7.1 Setup

7.1.1 The test rack needs to be populated with the following cards, and jumper settings:

7.1.1.1 HMPG + DMPG (daughter card) in slot 2B

7.1.1.1.1 Test Rom “SD_88_Monitor_Ram_TE see attach 01

7.1.1.2 HLND in slot 2C

7.1.1.2.1 PROM “PSP3815PLNC01AB IN u27 AND *2AB IN u28 see attach 02

7.1.1.2.2 Jumper 1 set to “T”

7.1.1.2.3 Jumper 2-8 set to “F”

7.1.1.2.4 Jumper 9 set to “IN”

7.1.1.3 HLNC in slot 2D

7.1.1.3.1 Jumper 1-3, 5-9 set to “F”

7.1.1.3.2 Jumper 4 set to “T”

7.1.1.3.3 Jumper 10-13 set to “A”

7.1.1.4 Second HLND in slot 2E

7.1.1.4.1 Same Jumper settings and test eprom as above

7.1.1.5 Second HLND in slot 2F

7.1.1.5.1 Same Jumper settings and test eprom as above

7.1.1.6 Jumper settings for both HMAC on side of fixture:

7.1.1.6.1 JA1-3 set to “T”

7.1.1.6.2 JB1-3 set to “T”

7.1.1.7 Connect com 2 cable to HMPG in slot 2B

7.1.1.8 20 pin ribbon HLND#1 to HMAC#1

7.1.1.9 20 pin ribbon HLND#2 to HMAC#2

7.1.1.10 50 pin ribbon HLND (2C to HLNC 2D)

7.1.1.11 50 pin ribbon HLND (2E to HLNC 2F)

7.2 Testing Procedure

7.2.1 On the pc, open vaxdmc (located on desktop) then press [F1] for vax communication.

7.2.2 Turn on the Main power for the rack

7.2.3 Wait for CR2 on the HMPG to light and the computer terminal to display “Ç”

7.2.4 Type [BB] on the computer. The “IMOK” led on the HMPG will illuminate and the prompt on the computer will change to HMPG see attach 03

7.2.5 Type [SW4000,] (don't forget the comma at the end) and press [enter]. The prompt will extend to add "A55A-" on the end. See attach 04

7.2.6 Type [7FF7] then press [enter] and watch for the following to occur.

7.2.6.1 On the HLNC in slot 2D "IMOK" led will illuminate after approx. 5-10 seconds

7.2.6.2 "DIAG" led will turn on for about 5 seconds and then turn off.

7.2.6.3 After the "DIAG" led turns off, the "CONFIG" led will come on and blink.

7.2.6.4 "IMOK" should remain on.

7.2.6.5 Allow the card to burn in at this step for 15 minutes

7.2.7 Type [SWC000,] and press [enter] see attach 05

7.2.8 Type [7FF7] then press [enter] and verify that after approx. 5 seconds the "IMOK" led's on both HLNC's are now on and all other HLNC led's are off.

7.2.9 Allow the card to burn in at this step for an additional 15 minutes.

7.2.10 Remove power

7.3 ***TEST COMPLETE ***

8. Notes

8.1 None at this time?

9. Attachments

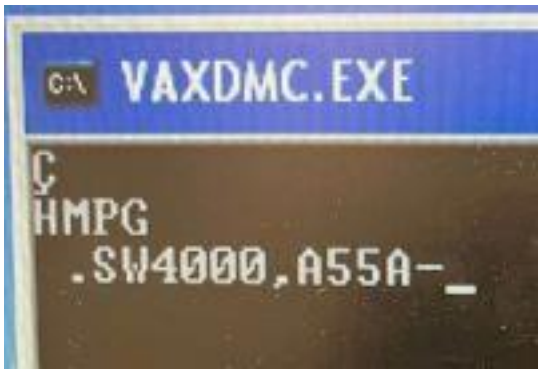
- Test fixture used for this test

01

02

03

04



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