

TEXT LISTING

068-001057-01

PROGRAM

MICRO-NOVA HIGH SPEED  
DATA CHANNEL DIAGNOSTIC

TEXT TAPE

097-001057-01

ABSTRACT

MNHSC IS A MICRO-NOVA DIAGNOSTIC PROGRAM. IT IS USED TO VERIFY THE HIGH SPEED DATA CHANNEL AND HIGH SPEED DATA CHANNEL TESTER.

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0001 .MAIN
01 AUS ASSEMBLER REV 02.05 08:54:46 09/18/79
02 *****
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04 *****
05 NAME: MNHSC.TX PART NUMBER: 097-001057
06 *****
07 DESCRIPTION: MICRO-NOVA HIGH SPEED DATA CHANNEL DIAGNOSTIC
08 *****
09 REVISION HISTORY:
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11 REV. DATE
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13 00 03/17/78
14 01 09/17/79 UPDATE DIRT BLOCK
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18 DATA GENERAL CORPORATION, 1978, 1979
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20 FOR MAINTENANCE PURPOSES ONLY
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23 DIAGNOSTIC MATERIAL IS NOT INTENDED BY ITSELF
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30 THIS DIAGNOSTIC MATERIAL FOR USE BY DGC PER-
31 SONNEL AND CUSTOMERS AS A GUIDE TO THE PROPER
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36 PRIOR WRITTEN APPROVAL NOR BE IMPLIED TO GRANT
37 ANY LICENSE TO MAKE, USE, OR SELL EQUIPMENT OR
38 SOFTWARE MANUFACTURED IN ACCORDANCE HERewith.
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10002 .MAIN
01 .TITL MNHSC
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03 PROGRAM NAME
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05 MNHSC.SR
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07 REVISION HISTORY
08 00 03/17/78
09 01 09/17/79 UPDATE DIRT BLOCK
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11 MACHINE REQUIREMENTS
12 MICRO-NOVA PROCESSOR
13 4K MEMORY
14 HIGH SPEED DATA CHANNEL TESTER
15
16 SUMMARY
17 MNHSC IS A MICRO-NOVA DIAGNOSTIC PROGRAM.
18 IT IS USED TO VERIFY THE HIGH SPEED DATA
19 CHANNEL AND HIGH SPEED DATA CHANNEL TESTER.
20
21 RESTRICTIONS
22 NONE
23
24 PROGRAM DESCRIPTION/THEORY OF OPERATION
25 TEST 1 - VERIFIES THE FIFO IN THE HIGH SPEED
26 DATA CHANNEL TESTER.
27
28 TEST 2 - CHECK THE ADDRESS REGISTER OF THE
29 TESTER.
30
31 TEST 3 - CHECKS THE DUNE FLAG OF THE TESTER
32
33 TEST 4 - CHECKS INTERRUPT
34
35 TEST 5 - CHECKS HIGH SPEED DATA CHANNEL
36 READING AND WRITING WITH
37 0'S, 1'S AND ALTERNATING WORDS OF
38 ZERO'S AND ONES.
39
40 TEST 6 - CHECKS THE HIGH SPEED DATA CHANNEL
41 WITH ALTERNATING WORDS OF ZERO'S
42 AND ONES.
43
44 TEST 7 - VERIFIES THE REFRESH CYCLE WILL
45 OCCUR WHEN IT IS SUPPOSE TO.
46 THIS TEST IS ONLY RUN DURING
47 PASS 1 OF THE DIAGNOSTIC.
48
49 OPERATING MODES/SWITCH SETTINGS
50
51
52 SWITCH SETTINGS
53
54 LOCATION "SWREG" IS USED TO SELECT THE PROGRAM OPTIONS
55 (NOT SYSTEM CONFIGURATION). WHILE RUNNING UNDER DTOS,
56 THIS LOCATION WILL BE LOADED BY THE MONITOR.
57 UNDER STAND ALONE AND PROGRAM LOAD MODES THIS
58 LOCATION WILL BE SET ACCORDING TO THE ANSWERS SUPPLIED
59 BY THE OPERATOR. IN ANY CASE, THE OPTIONS CAN BE CHANGED
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ERROR NUMBER 12 DONE SET BUT CHARACTER RECEIVED FROM THE DATA CHANNEL IS INCORRECT FOR DEVICE CODE 2.

ERROR NUMBER 13 DONE DID NOT SET FOR DEVICE CODE 3'S TESTER.

ERROR NUMBER 14 THE CHARACTER RECEIVED FROM DEVICE CODE 3'S TESTER IS INCORRECT.

ERROR NUMBER 15 DEVICE CODE 2'S TESTER DID NOT INTERRUPT.

ERROR NUMBER 16 DEVICE CODE 2'S TESTER DID TRANSFER THE CHARACTER CORRECTLY.

ERROR NUMBER 17 DEVICE CODE 3'S TESTER DID NOT INTERRUPT.

ERROR NUMBER 20 DEVICE CODE 3'S TESTER DID NOT TRANSFER THE CHARACTER CORRECTLY.

ERROR NUMBER 21 ADCZL DID NOT WORK CORRECTLY CARRY DID NOT GO TO A 1

ERROR NUMBER 22 MULTIPLY INSTRUCTION DID NOT COME UP WITH THE CORRECT OVERFLOW.

ERROR NUMBER 23 RESULT OF MULTIPLICATION INSTRUCTION IS INCORRECT.

ERROR NUMBER 24 CARRY WAS CHANGED DOING A MOV INSTRUCTION.

ERROR NUMBER 25 MULTIPLIER IN AC1 WAS DESTROYED.

ERROR NUMBER 26 INDIRECT ACCESS THROUGH AUTO INCREMENT LOCATIONS DID NOT WORK (LOADING @ LOCATION 20 AND STORING @ LOCATION 37) LOAD CHAIN FAILED.

ERROR NUMBER 27 INDIRECT ACCESS THROUGH INCREMENT LOCATIONS DID NOT WORK. STORE CHAIN FAILED.

ERROR NUMBER 30 AUTO INCREMENT LOCATIONS HAVE THE WRONG VALUE.

ERROR NUMBER 31 AUTO DECREMENT LOCATIONS HAVE A WRONG VALUE.

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ERROR NUMBER 32 VALUE EXPECTED IS AUTO INCREMENT AUTO DECREMENT INDIRECT LOAD STORE.

ERROR NUMBER 33 STACK PUSH, POP OPERATION DID NOT WORK.

ERROR NUMBER 34 TESTER DATA WAS NOT WRITTEN CORRECTLY FROM WRITE BUFFER FOR DEVICE CODE 2.

ERROR NUMBER 35 BUFFER ADDRESS DID NOT INCREMENT PROPERLY (DEVICE CODE 2).

ERROR NUMBER 36 TESTER DATA WAS NOT WRITTEN CORRECTLY FROM WRITE BUFFER FOR DEVICE CODE 3.

ERROR NUMBER 37 BUFFER ADDRESS DID NOT INCREMENT PROPERLY (DEVICE CODE 3).

ERROR NUMBER 40 TESTER DATA WAS NOT READ PROPERLY FROM TESTER DEVICE CODE 2.

ERROR NUMBER 41 BUFFER ADDRESS DID NOT INCREMENT PROPERLY FOR A READ FROM DEVICE CODE 2.

ERROR NUMBER 42 DATA WAS NOT READ CORRECTLY FROM TESTER DEVICE CODE 3.

ERROR NUMBER 43 BUFFER ADDRESS DID NOT INCREMENT PROPERLY FOR A READ FROM DEVICE CODE 3.

ERROR NUMBER 44 ILLEGAL INTERRUPT

ERROR NUMBER 45 DEVICE CODE 2 INTERRUPTED BUT ITS DONE FLAG IS NOT SET.

ERROR NUMBER 46 DEVICE CODE 3 INTERRUPTED BUT ITS DONE FLAG IS NOT SET.

**000000 TOTAL ERRORS, 00000 FIRST PASS ERRORS

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0007 .MAIN

S3WPD 006770 MC 2/51