

DataGeneral

**TECHNICAL
STATEMENT**

TEXT LISTING

068-000169-13

PROGRAM

MOVING HEAD DISK CONTROL
DIAGNOSTIC

TEXT TAPE

097-000169-13

ABSTRACT

THIS PROGRAM IS A HARDWARE DIAGNOSTIC FOR THE 4046 MOVING HEAD DISK CONTROLLER AND ADAPTER LOGIC. IT IS ASSUMED THAT THE DISK TERMINAL IS FUNCTIONING PROPERLY.

0001 MHDD. MACRO REV 04.00

09:43:04 06/30/77

10002 MHDD.

```

01 .TITLE MHDD.TX
02 ;MOVING HEAD DISK CONTROL DIAGNOSTIC
03
04
05
06
07 ***** AUTO-RUN AUTO LOAD MODIFIED 3/7/72
08 ;END OF CYLINDER TEST INCLUDED 06/28/73
09 ;100 MS TIMES FOR LOOPS 08/07/73
10
11 ; 1. ABSTRACT
12 ; THIS PROGRAM IS A HARDWARE DIAGNOSTIC FOR THE
13 ; 4046 MOVING HEAD DISK CONTROLLER AND ADAPTER
14 ; LOGIC. IT IS ASSUMED THAT THE DISK TERMINAL
15 ; IS FUNCTIONING PROPERLY.
16
17 ; 2. REQUIREMENTS
18 ; 1. NDVA (EXCEPT MICRO) OR ECLIPSE FAMILY CENTRAL PROCESSOR
19 ; 2. MINIMUM OF 4K READ/WRITE MEMORY
20 ; 3. 4046 MOVING HEAD DISK CONTROL
21 ; 4. 4047,4048,4049 OR 4057
22 ; 5. 1 TO 4 DISK TERMINALS
23 ; 6. TELETYPE AND CONTROL
24
25 ; 3. OPERATING PROCEDURE
26 ; 1. LOAD USING THE BINARY LOADER OR DIAGNOSTIC
27 ; OPERATING SYSTEM.
28 ; 2. STARTING ADDRESSES:
29 ; 6- RANDOM SEEK EXERCISER
30 ; 200- START DIAGNOSTIC
31 ; 3. THE PROGRAM PRINTS "PASS" FOLLOWING EACH
32 ; COMPLETE PASS THROUGH THE TESTS. RANDOM
33 ; SEEK EXERCISER PERFORMS 5000 SEEKS
34 ; PER "PASS" MESSAGE.
35 ; 4. SWITCH SETTINGS
36 ; SW1= FROM ERROR, GO TO NEXT TEST.
37 ; SW2= INHIBIT TTY OUTPUT.
38 ; SW3= PRINT FAILURE RATE.
39 ; SW4= OUTPUT TO LPT
40 ; SW6-7= UNIT # FOR RECAL DURING SCOPE LOOP
41 ; SW8= RECALIBRATE DURING SCOPE LOOP
42 ; SW9= 1 SEC DELAY IN SCOPE LOOP
43
44 ; 4. ERRORS
45 ; WHEN AN ERROR IS DETECTED THE PROGRAM HALTS.
46 ; (AC3) POINTS TO THE LOCATION FOLLOWING THE
47 ; ERROR HALT CALL "EHALT". CONSULT THE COMMENTS
48 ; AREA OF THE DIAGNOSTIC PROGRAM LISTING FOR
49 ; CLUES AND POSSIBLE CAUSES OF THE FAILURE.
50 ; PUSHING CONTINUE WILL CAUSE THE PROGRAM TO
51 ; PRINT THE (AC3) AND ENTER A SCOPE LOOP.
52 ; SET SW3 TO CAUSE THE ERROR RATE (0-100%) TO BE
53 ; PRINTED. SET SW1 TO EXIT FROM THE SCOPE LOOP
54 ; AND PROCEED TO THE NEXT TEST.

```

```

01 *****
02 ; NAME: MHDD.TX
03 ; PART NUMBER: 097-000169
04
05 ; DESCRIPTION: MOVING HEAD DISK CONTROL DIAGNOSTIC
06 ; TEXT FILE
07
08 ; REVISION HISTORY:
09
10 ; REV. DATE
11
12 ; 00 10/28/71
13 ; 01 06/13/72
14 ; 02 11/20/72
15 ; 03 07/03/73
16 ; 04 08/24/73
17 ; 05 04/26/74
18 ; 06 XX/XX/XX
19 ; 07 XX/XX/XX
20 ; 08 12/12/75
21 ; 09 04/23/76
22 ; 10 07/16/76
23 ; 11 12/31/76
24 ; 12 04/15/77
25 ; 13 07/08/77

```

```

26 ; COPYRIGHT © DATA GENERAL CORPORATION, 1971, 1972, 1973, 1974
27 ; 1975, 1976, 1977
28 ; ALL RIGHTS RESERVED.
29
30 ; *****

```

