DataGeneral

TECHNICAL STATEMENT

TEXT LISTING

068-000033-02

PROGRAM

MULTIPROCESSOR COMMUNICATIONS
ADAPTER 4038 DIAG.

TEXT TAPE

097-000033-02

ABSTRACT

THIS IS A MAINTENANCE PROGRAM TO TEST AND AID IN DIAGNOSING A 4038 MCA. IT RUNS WITHOUT THE MCA BUS CONNECTED.

```
 0001 .MAIN    MACRO REV 06.30          11:46:41 02/15/79
01
02
03
04
05
06
07              ;*****************************************************************
08              ;
09              ; NAME: MCA4038D.TX                        PART NUMBER: 097-000033
10              ;
11              ;
12              ; DESCRIPTION: MULTIPROCESSOR COMMUNICATIONS ADAPTER 4038 DIAGNOSTIC
13              ;
14              ;
15              ; REVISION HISTORY:
16              ;
17              ;       REV.            DATE
18              ;
19              ;       00              09/10/71
20              ;       01              03/09/72
21              ;       02              07/23/76
22              ;
23              ;
24              ; COPYRIGHT (C) DATA GENERAL CORPORATION, 1971, 1972, 1976
25              ; ALL RIGHTS RESERVED.
26              ;*****************************************************************
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!0002 .MAIN
01              ;MULTIPROCESSOR COMMUNICATIONS ADAPTER 4038
02              ;DIAGNOSTIC PROGRAM
03              ;V1,L12
04
05              ;1. ABSTRACT
06              ;       THIS IS A MAINTENANCE PROGRAM TO TEST AND
07              ;       AID IN DIAGNOSING A 4038 MCA.
08              ;       RUNS WITHOUT THE MCA BUS CONNECTED.
09
10              ;2. MACHINE REQUIREMENTS
11              ;2.1    ONE NOVA-FAMILY PROCESSOR
12              ;2.2    ONE TELETYPE
13              ;       (EXCEPT MICRO)
14              ;2.3    ONE 4K READ/WRITE MEMORY
15              ;2.4    ONE 4038 MCA BOARD
16
17              ;3. SWITCH SETTINGS
18              ;       STARTING ADDRESS        =200
19              ;       SWITCH 1 (1)    =PROCEED FROM ERROR
20              ;       SWITCH 2 (1)    =INHIBIT TTY OUTPUT
21              ;       SWITCH 3 (1)    =PRINT FAILURE RATE
22              ;       SWITCH 5(1)     =OUTPUT TO LPT
23              ;       SWITCH 7 (1)    =HALT,ALLOW ENTRY OF NEW DEVICE CODE
24              ;                       VIA SWITCH REGISTER AS FOLLOWS:
25              ;                       AC0=OLD XMITTER CODE
26              ;                       AC1=NEW XMITTER CODE
27              ;
28
29              ;4. OPERATING PROCEEDURE
30              ;4.1    TURN OFF POWER ON ALL EQUIPMENT
31              ;4.2    PLUG IN MCA 4038 BOARDS
32              ;4.3    DISCONNECT MCA BUS EXTERNAL CABLES.
33              ;       ATTACH TERMINATOR TO EXTERNAL CABLE CONNECTOR.
34              ;4.4    TURN ON POWER
35              ;4.5    LOAD THIS PROGRAM VIA BINARY LOADER
36              ;       OR DIAGNOSTIC OPERATING SYSTEM.
37              ;4.6    AFTER DEPOSITING A NON-ZERO NUMBER IN LOCATION JMPR5
38              ;               IF JUMPER W5 IS ON THE MCA BOARD.
39              ;4.7    SET SWITCHES AT 200,
40              ;       IF LOADED BY BINARY LOADER
41              ;       PRESS RESET,
42              ;       PRESS START.
43              ;4.10   ALLOW PROGRAM TO RUN UNTIL "PASS" HAS
44              ;       BEEN TYPED TWICE OR MORE.
```

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!0003 .MAIN
01
02              ;5. PROGRAM OUTPUT AND ERROR DESCRIPTION
03              ;5.1    IF A MALFUNCTION IS DETECTED THE PROGRAM
04              ;       WILL HALT AT LOCATION ERR1+1.  AC3 WILL
05              ;       CONTAIN THE LOCATION OF THE ERROR, +1.
06              ;       EXAMINE THE LISTING TO DETERMINE IF OTHER
07              ;       AC CONTENTS ARE IMPORTANT.  THE OPERATIOR
08              ;       MAY CHANGE SWITCH SETTINGS AT THIS TIME
09              ;       IF DESIRED.  IF SWITCHES 1 AND 2 ARE ZERO
10              ;       (OFF) PRESSING CONTINUE WILL CAUSE A TTY PRINT-OUT
11              ;       OF THE ERROR LOCATION(SW5 ALLOWS LPT OUTPUT).
12              ;       THE ROUTINE WILL ENTER A LOOP SUITABLE FOR SCOPING.
13              ;       WHEN THE PROGRAM IS IN A SCOPE LOOP, SETTING
14              ;       SWITCH 3(1) WILL CAUSE THE FAILURE RATE TO BE
15              ;       PRINTED.  SETTING SWITCH 1(1) WILL CAUSE THE
16              ;       PROGRAM TO PROCEED TO THE NEXT TEST.
17              ;
18              ;
19              ;6.0    CHANGING DEVICE CODES
20              ;
21              ;       THE DEVICE CODES FOR THE XMITTER/RECEIVER MAY
22              ;       BE AUTOMATICALLY CHANGED TO THE ALTERNATE
23              ;       VALUES AS FOLLOWS:
24              ;
25              ;       1.START PROGRAM AT LOC 200
26              ;       2.PROGRAM WILL HALT AND ASK YOU TO SET SWITCHES.
27              ;               IF DEVICE CODES ARE TO BE CHANGED DO THE
28              ;               FOLLOWING.
29              ;       3.ENTER INTO AC0 THE OLD XMITTER CODE
30              ;       4.ENTER INTO AC1  THE NEW XMITTER CODE
31              ;       5.PUT SWITCH 7 TO A ONE(1)
32              ;       6.PRESS CONTINUE
33              ;
34              ;       THE PROGRAM WILL CHANGE ALL THE PERTINENT
35              ;       DEVICE CODES AND START EXECUTING THE DIAGNOSTIC.
36              ;
37              ;       PLEASE NOTE THAT UPON LOADING THE XMITTER HAS
38              ;       A CODE OF 6 AND THE RECEIVER A CODE OF 7.THE
39              ;       DEVICE CODE ROUTINE WILL CHANGE ALL THE XMIT
40              ;       I-O INSTRUCTIONS TO THE NEW XMIT CODE
41              ;       AND ALL THE  RECEIVE I-O INSTRUCTIONS TO
42              ;       THE XMIT CODE+1.
43              ;
44
45                      .EOT
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 0004 .MAIN

**00000 TOTAL ERRORS, 00000 PASS 1 ERRORS
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