

For Brochem  
RICHARD WRENN

IDENTIFICATION

PRODUCT CODE:       MAINDEC-Ø8-DIDFC-A-D  
                          REPLACES MAINDEC-Ø8-D5CG  
PRODUCT NAME:       DF32/DF32D DISK DATA MINI DISK,  
                          INTERFACE ADDRESS, DATA TEST  
DATE:                 MARCH 26, 1973  
MAINTAINER:         DIAGNOSTIC GROUP  
AUTHOR:              JOHN HITTELL/BILL LAFLAME/  
                          ED FORTMILLER

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ADDENDUM

1. With an ASR 37 (15 CPS TTY) change following locations

loc 5773 from 7635 to 7553  
loc 3155 from 4611 to 3133  
loc 3156 from 3200 to 4652



(cont)  
the program will print an initial printout of  
"RPM XXXX SYNC TIME = XXXX MICRO SECS", and upon  
completion of a pass, "PCXX", then will loop to  
start of program.

4.3

Program and/or Operation Action

Load Disk Data Test into memory.

Select EMO (All other units to OFF).

Write inhibit switches OFF.

Set the SWITCH REGISTER to 100. (77 for the PDP-8/s)

Load Address.

Set the SWITCH REGISTER to all 0's or 0002 for 50 cycle.

Press START

Program will run and loop upon completion. The only  
printout that should occur are "RPMXXXX SYNC TIME =  
XXXX MICRO SECS" and "PCXX".

REMEMBER  
TO TURN  
THE PICKER  
INTERFACE  
TO MANUAL

or  
turn power  
'off' to  
interface

5.

OPERATING PROCEDURE

5.1

Operational Switch Settings

SW0	UP	Delete Printouts. <i>Too soft</i>
SW1	UP	Halt after error.
SW2	UP	Subtest scope loop.
SW3	UP	Do not exit section.
SW10	UP	50 cycle.
SW11	UP	Trace (Type starting address of each TEST as the program enters it).

5700

5.1.1

Special Entrance Address

101	Address Test (slow).
102	Track Decode Test.
103	Track Error Ratio Test.
104	Data Break Test.

- 105 Data Test.
- 106 Read Recovery Time Test. (NOT USED ON PDP-8/S)
- 107 Disk Write Current Saturation Test.
- 110 Random, Disk, Track, Address and Data Test.

5.1.2 Special Scope Loops

- 111 Scope loop for Data Failure, automatic setup.
  - 112 Write one word - SR = Disk Address. (Address Test)
  - 113 Read one word - SR = Disk Address. (Address Test)
  - 114 Address loop with bell on error - SR = Disk Address.  
(Address Test)
  - 115 Data Test.
    - 1st halt SR 6 to 10 = disk and track selections.
- |   |   |   |   |    |
|---|---|---|---|----|
| 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|----|
- 2nd halt SR = Disk Address. Disk Track
  - 3rd halt SR = Data with bell on error.
  - Routine will monitor SR for data.

5.1.3 Track Scope Loops

- 116 Writes track. Press START.
  - 1st halt Load data for out buffer in SR, press CONTINUE
  - 2nd halt Set SR 6 to 11 = disk and track selection,  
press CONTINUE.
- 117 Read track - SR 6 to 11 = Disk and track selection,  
SR 0 = 1 to inhibit Printouts
- 120 Write/Read track.
  - 1st halt Load data in SR. Press CONTINUE.
  - 2nd halt SR 6 to 11 = disk and track selection.