

IDENTIFICATION

PRODUCT CODE: MAINDEC-Ø8-DHTDA-A-D
 REPLACES: MAINDEC-8E-D3AB-D

PRODUCT NAME: TD8E DECTAPE DIAGNOSTIC

DATE CREATED: NOVEMBER 1, 1972

MAINTAINER: DIAGNOSTIC GROUP

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1, ABSTRACT

TD8E DECTAPE DIAGNOSTIC IS A PROGRAM WHICH HAS BEEN WRITTEN TO CHECKOUT AND TEST TD8E DECTAPE CONTROLS WITH TU56 DECTAPE TRANSPORTS. THE PROGRAM TESTS THE BASIC FUNCTIONS OF THE CONTROL (IOT SKIPS, DATA TRANSFERS, ETC) AS WELL AS CHECKING THE ABILITY TO READ AND WRITE ON DECTAPE.

2, REQUIREMENTS

2,1 EQUIPMENT

PDP-8E
TD8E DECTAPE CONTROL
TU56 DECTAPE TRANSPORT (AT LEAST ONE)
ALL NECESSARY CABLES AND MODULES

2,2 STORAGE

THE PROGRAM OCCUPIES MEMORY FROM LOCATION 20 TO LOCATION 7177 AND USES LOCATIONS 7200 TO 7577 AS DATA BUFFER AREA.

2,3 PRELIMINARY PROGRAMS

NONE

#, LOADING PROCEDURE

3,1 METHOD

THE PROGRAM IS LOADED USING THE STANDARD BINARY LOADER TECHNIQUE.

4. STARTING PROCEDURE

4.1 CONTROL SWITCH SETTINGS

THE FOLLOWING IS A TABLE OF CONTROL SWITCH SETTINGS AND THEIR ACTION UPON THE PROGRAM:

SR	STATE	ACTION
0	1	LOOP ON CURRENT SUBTEST
	0	DON'T LOOP
1	1	LOOP ON CURRENT TEST
	0	DON'T LOOP
2	1	LOOP ON CONTROL TESTS
	0	DON'T LOOP
3	1	DON'T PRINT ERRORS
	0	PRINT ERRORS
4	1	DON'T HALT ON ERRORS
	0	HALT ON ERROR
5	1	
	0	
6	1	
	0	
7	1	
	0	
8	1	
	0	
9	1	
	0	
10	1	
	0	
11	1	SINGLE UNIT TRANSPORT
	0	DUAL UNIT TRANSPORT

4.2 STARTING ADDRESSES

0200	OPERATOR INTERVENTION TESTS
0201	CONTROL AND DATA TRANSFER TESTS
2100	SEARCH AND FIND ALL BLOCK NUMBERS
2200	DISPLAY BLOCK NUMBERS IN AC
2237	ROUTINE TO ROCK DECTAPE 0 (TIME DEPENDENT ON SWITCH REGISTER)
2400	READ AND CHECK THE MARK TRACK FROM ENDZONE TO ENDZONE
7200	IDT MODIFICATION PROGRAM

4.3 PROGRAM AND/OR OPERATOR ACTION

4.3.1 TO TEST "SELECT ERROR" AND "WRITE LOCK OUT"

4.3.1.1 DUAL TRANSPORTS

- A) SET SWITCH REGISTER TO 0200
- B) ON THE TRANSPORTS, SET ONE TRANSPORT TO UNIT 0, ON-LINE, WRITE LOCK; SET THE OTHER TRANSPORT TO UNIT 1, OFF-LINE.
- C) DEPRESS "LOAD ADDRESS", THEN "CLEAR", THEN "CONTINUE"; THE PROGRAM SHOULD TYPE "OK"
- D) REVERSE THE ROLES OF THE TWO TRANSPORTS AND REPEAT STEP C;
- E) SET BOTH TRANSPORTS TO UNIT 1, ON-LINE; DEPRESS "LOAD ADDRESS", THEN "CLEAR", THEN "CONTINUE"; THE PROGRAM SHOULD INDICATE NO UNIT 0 SELECTED
- F) PROCEED TO 4.3.2

4.3.1.2 SINGLE TRANSPORT

- A) SET SWITCH REGISTER TO 0200
- B) ON THE TRANSPORT, SET TO UNIT 0, ON-LINE, WRITE LOCK
- C) DEPRESS "LOAD", THEN "CLEAR", THEN "CONTINUE"; THE PROGRAM SHOULD TYPE "OK"
- D) PROCEED TO 4.3.2

4.3.2 TO TEST CONTROL AND ABILITY TO PERFORM DATA TRANSFERS

- A) SET SWITCH REGISTER TO 0201, DEPRESS "LOAD ADDRESS"