

IDENTIFICATION

PRODUCT CODE: MAINDEC-08-DHTMC-A-D
PRODUCT NAME: TMS-E DRIVE FUNCTION TIMER
DATE CREATED: JULY 16, 1973
MAINTAINER: DIAGNOSTIC GROUP
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NOTE

THERE ARE SIX DIAGNOSTIC PROGRAMS ASSOCIATED WITH THE TMB-E DEC MAGTAPE CONTROL AND ITS TRANSPORT SYSTEM, ALTHOUGH PHYSICALLY SEPARATE, THESE PROGRAMS MUST BE TREATED AS A LARGE INTEGRATED TEST, AND TO ENSURE PROPER SYSTEM OPERATION, THESE TESTS MUST BE EXECUTED IN THE ORDER DELINEATED BELOW.

IF A GIVEN TEST SHOULD FAIL AND IT APPEARS THAT A FIX HAS BEEN FOUND, ALL PROGRAMS MUST ONCE AGAIN BE RUN, ONLY WHEN ALL TESTS HAVE RUN WITHOUT ANY UNACCEPTABLE ERRORS CAN THE TMB-E SYSTEM BE CONSIDERED UP.

TMB-E DIAGNOSTIC PROGRAMS' ORDER OF EXECUTION

1. TMB-E CONTROL TEST PART 1 (MAINDEC-08-DHTMA)
2. TMB-E CONTROL TEST PART 2 (MAINDEC-08-DHTMB)
3. TMB-E DRIVE FUNCTION TIMER (MAINDEC-08-DHTMC)
4. TMB-E DATA RELIABILITY 9 TRACK (MAINDEC-08-DHTMD)
5. TMB-E DATA RELIABILITY 7 TRACK (MAINDEC-08-DHTME)
6. TMB-E RANDOM EXERCISER (MAINDEC-08-DHTMF)

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1. ABSTRACT

THE TMBE DRIVE FUNCTION TIMER ASSISTS IN THE TESTING OF THE TMBE CONTROL UNIT AND TU10 TAPE UNIT. SELECTED OPERATIONS ARE EXECUTED, TIMED, AND THE TIMES ARE THEN PRINTED (IN MILLISECONDS). THERE IS NO LIMIT OR ERROR TESTING FACILITIES IN THE PROGRAM, THE DECISION ON THE VALIDITY OF TIMES MEASURED MUST BE MADE BY THE OPERATOR. ANY CONFIGURATION OF UP TO 8 TU10 TAPE UNITS (7 AND 0 CHANNEL) MAY BE SELECTED.

2. REQUIREMENTS

2.1 HARDWARE

PDP-8/E, 8/M, 8/F
TELETYPE OR COMPATIBLE DEVICE (TTY)
TMB-E DECMAGTAPE CONTROL
TU10 MASTER/SLAVE TRANSPORT SYSTEM

2.2 MEMORY

THIS PROGRAM REQUIRES 4K OF MEMORY AND MAY RESIDE IN ANY MEMORY FIELD.

2.3 PRELIMINARY PROGRAMS

ALL PROCESSOR/MEMORY DIAGNOSTICS
TMB-E CONTROL TEST PART 1
TMB-E CONTROL TEST PART 2

3. PROGRAM LOADING PROCEDURE

LOAD THE PROGRAM INTO ANY DESIRED MEMORY FIELD USING THE STANDARD BINARY LOADER TECHNIQUE.

4. PROGRAM STARTING PROCEDURE

- A. LOAD ADDRESS 0200
- B. LOAD THE EXTENDED ADDRESS WITH THE PROGRAM FIELD.
- C. CLEAR SWITCHES
- D. DEPRESS CLEAR, THEN CONTINUE