

IDENTIFICATION

PRODUCT CODE:

MAINDEC-08-DHKLD-A-D
(FORMERLY MAINDEC-08E-DZAC)

PRODUCT TEST:

PDP-8/E TELETYPE AND KLB ASYNCHRONOUS
DATA CONTROL TESTS

DATE:

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MAINTAINER:

DIAGNOSTIC GROUP

AUTHOR:

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1. ABSTRACT

THIS PROGRAM CONSISTS OF A PACKAGE OF TEST PROGRAMS FOR TESTING THE K18 LOGIC (EIA OR CURRENT) AND A TELETYPE, ONLY ONE TELETYPE MAY BE TESTED AT A TIME, THE TELETYPE TO BE TESTED CAN BE A KRS33, ASR33, KSR35, ASR35, OR KSR37.

THE TEST PROGRAMS ARE:

PRG0-BASIC TEST OF THE OUTPUT LOGIC (CURRENT AND EIA)
PRG1-BASIC TEST OF THE OUTPUT AND INPUT LOGIC (LOOP AROUND)(EIA)
PRG2-BASIC TEST OF INPUT LOGIC (USES TTY READER)(CURRENT)
PRG3-READER TEST
PRG4-PRINTER TEST
PRG5-PUNCH TEST
PRG6-KEYBOARD TEST
PRG7-COMBINED TEST
PRG10-READER EXERCISER, BINARY COUNT PATTERN
PRG11-PRINTER EXERCISER
PRG12-BINARY COUNT TAPE GENERATOR

2. REQUIREMENTS

2:1 EQUIPMENT

A: PDP-8/E WITH AT LEAST 4K OF MEMORY
B: FOR EIA A JUMPER TO CONNECT INPUT TO OUTPUT, SEE TEST EQUIPMENT 7.3.
C: KSR33, ASR33, KSR35, ASR35 TO TEST AN 110 BAUD CURRENT OPTION;

2:2 STORAGE

LOCATIONS 0000 THROUGH 7600 ARE USED;

3. LOADING PROCEDURE

THE BINARY LOADER IS USED TO LOAD THE PROGRAM, REFER TO THE BINARY LOADER DOCUMENTATION IF UNFAMILIAR WITH ITS USE.

4; Use PROCEDURE

4.1 DEVICE CODE SELECTION

BEFORE ANY PROGRAM CAN BE RUN, THE PROGRAM MUST HAVE THE FOLLOWING INFORMATION:

- 1; TYPE OF TELETYPE (33, 35, OR 37) IF TESTING WITH A TELETYPE 33
- 2; DEVICE CODES ASSIGNED;
- 3; BAUD RATE OF DEVICE 110

TO PROVIDE THIS INFORMATION, PROCEED AS FOLLOWS:

A; SET LOCATION 0020 TO 1

- 1; 0000 FOR KSR OR ASR 33 TELETYPE
- 2; 0001 FOR KSR OR ASR 35 TELETYPE
- 3; 0002 FOR KSR 37 TELETYPE

B; SET LOCATION 0021 AS FOLLOWS:

- 1; LOAD ADDRESS 0021.
- 2; SET SR 0 THROUGH 5 TO THE DEVICE CODE OF THE KEY-BOARD/READER TO BE TESTED;
(LEG: READER CODE OF 03, SR0=5=03.
- 3; SET SR 6 THROUGH 11 TO THE DEVICE CODE OF THE PRINTER/PUNCH TO BE TESTED;
(LEG: PRINTER CODE OF 04, SR6=11=04.
- 4; PRESS DEPOSIT.

C; SET LOCATION 0022 AS FOLLOWS:

- 1; LOAD ADDRESS 0022;
- 2; PLACE THE FOLLOWING IN THE SR:
0110 FOR 110 BAUD; OR
0150 FOR 150 BAUD; OR
0300 FOR 300 BAUD; OR
0600 FOR 600 BAUD; OR
1200 FOR 1200 BAUD; OR
2400 FOR 2400 BAUD;
3; PRESS DEPOSIT.

D; REFER TO INDIVIDUAL PROGRAM USE PROCEDURE.