IDENTIFICATION

PRODUCT CODE: MAINDEC-08-DHKLD-A-D
                       (FORMERLY MAINDEC-8E-D2AC)

PRODUCT TEST: PDP-8/E TELETYPE AND KL8 ASYNCHRONOUS
                       DATA CONTROL TESTS

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MAINTAINER: DIAGNOSTIC GROUP

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1.   ABSTRACT

        THIS PROGRAM CONSISTS OF A PACKAGE OF TEST PROGRAMS FOR
        TESTING THE KL8 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
2. DEVICE CODES ASSIGNED,
3. BAUD RATE OF DEVICE

TO PROVIDE THIS INFORMATION, PROCEED AS FOLLOWS:

A. SET LOCATION 0020 TO:

    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,
       (EG: READER CODE OF 03, SR0-5=03,
    3. SET SR 6 THROUGH 11 TO THE DEVICE CODE OF THE
       PRINTER/PUNCH TO BE TESTED,
       (EG: 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,