PRS01

TOGGLE IN TEST PROG.

MD-11-DZPRB-A

EP-DZPRB-A-DL-A

FICHE 1 OF 1

JUN 1977

digital

MADE IN USA

EOF1DVDVARSEQ	00010000	770608	PDP10 411	IMHDR1DZPRBASEQ	00010000	770608

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000000                  .REPT 0
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IDENTIFICATION

PRODUCT CODE:	MAINDEC-11-DZPRB-A-D
PRODUCT NAME:	PRS01 TOGGLE IN PROGRAM FOR DL11
DATE:	APRIL 1977
MAINTAINER:	DIAGNOSTIC ENGINEERING
AUTHOR:	JOHN COMEAU


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.ENDR
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                                .ABS
                        001000  .=1000
                        177560  RBUF=177560
                                ;THIS IS THE TOGGLE IN TEST ROUTINE FOR THR PRSO1 CONNECTED WITH A DL11.
                                ;IT  EXPECTS A TAPE CONSISTING OF NULLS
                                ;FOLLOWED BY A DECREMENTING PATTERN STARTING WITH 377 AND ENDING WITH 1,
                                ;FOLLOWED BY MORE NULLS
                                ;THE ROUTINE WILL HALT AT LOCAION "ERROR" IF IT DETECTS
                                ;A BAD CODE OR A DL11 ERROR BIT
                                ;WHEN THE PROGRAM HALTS, LOCATION 1040 WILL HOLD THE VALUE OF THE
                                ;CHARACTER EXPECTED. R0 WILL HOLD THE VALUE OF THE CHAR ACTUALY GOTTEN
                                ;BEFORE RUNNING THIS PROGRAM MAKE SURE THAT
                                ;LOCATION 1002 CONTAINS THE DL11 CONTROL/STATUS REGISTER ADDRESS
001000  012703  177560  START:  MOV     #RBUF,R3        ;SETUP THE ADDRESS OF THE DL11 BUFFER REGISTER
001004  012702  001040          MOV     #ERROR+2,R2     ;SETUP ADDRESS OF CODE WE EXPECT
001010  005004                  CLR     R4              ;ZERO COUNT OF NON-ZERO CHARS
001012  005012          1$:     CLR     (R2)            ;SET THE CODE WE SHOULD EXPECT TO 0
001014  105713          3$:     TSTB    (R3)            ;GOT A CHAR FROM THE DL11 YET?
001016  100376                  BPL     3$              ;IF NOT, GO BACK AND WAIT FOR ONE
001020  016300  000002          MOV     2(R3),R0        ;YES, GOT A CHAR. TAKE IT FROM THE DL11 BUFFER REG
001024  001772                  BEQ     1$              ;IF ITS A NULL GO BACK AND GET THE NEXT CHAR
001026  105312                  DECB    (R2)            ;NOT A NULL. DECREMENT THE EXPECTED VALUE
001030  005204                  INC     R4              ;ADD 1 TO THE COUNT OF NON-ZERO CHARS
001032  020012                  CMP     R0,(R2)         ;IS WHAT WE GOT, WHAT WE EXPECTED TO GET?
001034  001767                  BEQ     3$              ;IF SO, GO BACK AND KEEP TESTING
001036  000000          ERROR:  HALT                    ;NO. CODE WE GOT AND CODE EXPECTED ARE DIFFERENT
        000001                  .END
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E01