

**PRS01**

TOGGLE IN TEST PROG.  
MD-11-DZPRB-A

EP-DZPRB-A-DL-A  
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FICHE 1 OF 1

JUN 1977  
**digital**  
MADE IN USA

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IDENTIFICATION

PRODUCT CODE:	MAINDEC-11-DZPRB-A-D
PRODUCT NAME:	PR501 TOGGLE IN PROGRAM FOR DL11
DATE:	APRIL 1977
MAINTAINER:	DIAGNOSTIC ENGINEERING
AUTHOR:	JOHN COMEAU

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.ENDR

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58      001000
59      177560
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69 001000 012703 177560
70 001004 012702 001040
71 001010 005004
72 001012 005012
73 001014 105713
74 001016 100376
75 001020 016300 000002
76 001024 001772
77 001026 105312
78 001030 005204
79 001032 020012
80 001034 001767
81 001036 000000
82      000001
  
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.ABS
=1000
RBUF=177560
:THIS IS THE TOGGLE IN TEST ROUTINE FOR THR PRS01 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 ACTUALLY GOTTEN
:BEFORE RUNNING THIS PROGRAM MAKE SURE THAT
:LOCATION 1002 CONTAINS THE DL11 CONTROL/STATUS REGISTER ADDRESS
START:  MOV    #RBUF,R3      :SETUP THE ADDRESS OF THE DL11 BUFFER REGISTER
        MOV    #ERROR+2,R2  :SETUP ADDRESS OF CODE WE EXPECT
        CLR    R4           :ZERO COUNT OF NON-ZERO CHARS
1$:    CLR    (R2)          :SET THE CODE WE SHOULD EXPECT TO 0
3$:    TSTB   (R3)          :GOT A CHAR FROM THE DL11 YET?
        BPL    3$           :IF NOT, GO BACK AND WAIT FOR ONE
        MOV    2(R3),R0     :YES, GOT A CHAR. TAKE IT FROM THE DL11 BUFFER REG
        BEQ    1$           :IF ITS A NULL GO BACK AND GET THE NEXT CHAR
        DECB  (R2)         :NOT A NULL. DECREMENT THE EXPECTED VALUE
        INC   R4           :ADD 1 TO THE COUNT OF NON-ZERO CHARS
        CMP   R0,(R2)      :IS WHAT WE GOT, WHAT WE EXPECTED TO GET?
        BEG   3$           :IF SO, GO BACK AND KEEP TESTING
ERROR: HALT                :NO. CODE WE GOT AND CODE EXPECTED ARE DIFFERENT
.END
  
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