

DataGeneral

**TECHNICAL
STATEMENT**

TEXT LISTING

068-000483-01

PROGRAM

4215-4219 DIAGNOSTIC

TEXT TAPE

097-000483-01

ABSTRACT

THIS PROGRAM PROVIDES BOTH A DIAGNOSTIC EXERCISER AND A
RELIABILITY EXERCISER FOR A MODEL 4215-4219 BOARD WITH PRINTER.

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0001 .MAIN MACRO REV 06.20

09:11:04 08/26/77

10002 .MAIN

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02 4215-4219 DIAGNOSTIC
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*****
; NAME: DCHPTTST.TX
; DESCRIPTION: 4215-4219 DIAGNOSTIC
; REVISION HISTORY:
; REV. DATE
; 00 01/28/77
; 01 08/26/77
; PART NUMBER: 097-000483
; COPYRIGHT © DATA GENERAL CORPORATION, 1977
; ALL RIGHTS RESERVED.
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; *****
; 4215-4219 DIAGNOSTIC
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; *****
; THIS PROGRAM PROVIDES BOTH A DIAGNOSTIC EXERCISER
; AND A RELIABILITY EXERCISER FOR A MODEL 4215-4219 BOARD
; WITH PRINTER.
; *****
; MACHINE REQUIREMENTS
; *****
; A) COMMERCIAL I/O BOARD TO TEST
; B) PAPER TAPE READER, OR SOME WAY OF LOADING PROGRAM
; C) NOVA LANGUAGE MACHINE
; D) 8K READ/WRITE MEMORY
; E) TELETYPE (TTY OR GUAD MUX) OR 'CONSOLE SWITCHES'
; TO CONTROL THE TEST.
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; AVAILABLE TESTS (NUMBERS)
; *****
; START TEST BY STRIKING THE LETTER 'A' TO ENABLE THE
; REAL-TIME-CLOCK AND THE ASYNCHRONOUS-INPUT-OUTPUT.
; T=1 ; DEFAULT ALL THE TESTS THAT ARE ON DEVICES TO TEST
;
; T=LPTFR=1=5 ; TEST THE DATA-CHANNEL LPT
;
; T=PITFR=1=54 ; TEST THE PROGRAMMABLE-INTERVAL TIMER
;
; T=RTCFR=1=110 ; TEST THE REAL-TIME-CLOCK
;
; T=ASOFS=1=142 ; TEST THE ASYNCHRONOUS OUTPUT
;
; T=ASIFS=1=176 ; TEST THE ASYNCHRONOUS INPUT
;
; T=RELF=1=230 ; RELIABILITY TEST
;
; T=PRIOT=4 ; TEST THE PRIORITY LOGIC
;
; T=VFUFS=1=4 ; TEST THE VERTICAL-FORMAT UNIT
;
; T=2 ; BUFFER TEST FOR THE TTY
;
; T=3 ; BUFFER TEST FOR THE DATA-CHANNEL LINE-PRINTER
;
; T=STCHG=50 ; CHECK IF TAB DISABLE WORKS.

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; INSTRUCTIONS FOR CONTROL OF DIAGNOSTIC
; *****
; DIAGNOSTIC CAN BE CONTROLLED BY EITHER TTY OR CONSOLE
; SWITCHES. BOTH CONTROL OPTIONS HAVE CHOICES OF LOGGING
; OR NON-LOGGING OF TEST INFORMATION.
;
; TTY CONTROL
; *****
; DEVICE CODE 11, 51 OR QUAD-MUX CONTROL
;
; I) TO START USE "CONSOLE SWITCHES"
; A) SET SWITCH 8 UP, ALL OTHERS DOWN (OCTAL 200)
; B) PRESS STOP SWITCH, PRESS RESET SWITCH
; C) PRESS START SWITCH UP
; D) IF DEVICE CODE 51 OR QUAD-MUX CONTROL, WITHIN
; THE NEXT FEW SECONDS STRIKE A KEY ON THE TTY
; YOU WISH TO BE THE CONTROLLING DEVICE.
; IF NO KEY IS STRUCK, ASSUMES DEVICE CODE 11.
; E) ANSWER CONFIGURATION QUESTIONS.
; II) LOGGING OR NON-LOGGING OPTION
; A) NON-LOGGING - DEFAULT (OPERATOR DOES NOTHING)
; B) LOGGING
; 1) STRIKE KEY 5 TO START
; 2) ANSWER LOGGING DEVICE QUESTIONS
; C) ANSWER CONFIGURATION QUESTIONS
; III) TO ANSWER CONFIGURATION QUESTIONS
; A) TYPE IN NEW DATA, THEN "CARRIAGE RETURN"
; B) TO USE LAST DATA ENTERED (OR DEFAULT DATA)
; C) HIT "CARRIAGE RETURN" ONLY
; TO CAUSE CONFIGURATION QUESTIONS TO BE
; ASKED, HIT KEY CTRL R

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? CONSOLE SWITCH CONTROL
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?
? I) NON-LOGGING OPTION
?   A) TO START SET SWITCHES 9 TO 15 UP ~ 177 OCTAL
?   B) PRESS START SWITCH UP
?   C) MACHINE WILL HALT, SET SW 5 DOWN, FLIP CONTINUE
?   D) ANSWER CONFIGURATION QUESTIONS (SEE NOTE 1A)
?
? II) LOGGING OPTION
?   A) TO START SET SWITCHES 9 TO 15 UP ~ 177 OCTAL
?   B) PRESS START SWITCH UP
?   C) MACHINE WILL HALT, SET SW5 UP, HIT CONTINUE
?   D) ANSWER LOGGING DEVICE QUESTIONS (SEE NOTE 1A)
?   E) ANSWER CONFIGURATION QUESTIONS (SEE NOTE 1A)
?
? III) LOGGING OPTION AFTER NON-LOGGING START
?   A) SET SWITCH 5 UP
?   B) ANSWER LOGGING DEVICE QUESTIONS (SEE NOTE 1)
?   C) TEST WILL CONTINUE
?
?
? NOTE 1: LOGGING QUESTIONS WILL ONLY BE ASKED IF 1ST USE OF LPT
? SINCE TEST LOAD.
? LOGGING QUESTIONS NEVER APPEAR IN SWITCH MODE. REFER
? TO LIST BELOW. IF NEED TO KNOW WHICH QUESTION, PRESS
? DOWN EXAMINE SWITCH AC2 - SHOWS QUESTION #.
? AC3 SHOWS QUESTION ADDRESS IN LISTING.
?
? NOTE 1A: CONFIGURATION QUESTIONS WILL ONLY BE PRINTED IF
? LOGGING DEVICE IS IN LOGGING MODE. PRESS DOWN EXAMINE
? SWITCH AC2 TO SEE QUESTION #. CONFIGURATION QUESTIONS
? APPEAR ON FOLLOWING PAGE.
? AC3 SHOWS QUESTION ADDRESS IN LISTING.
?
? TO ANSWER CONFIGURATION QUESTIONS:
?
? 1) SET SWITCHES 1 TO 15 TO OCTAL ANSWER
? 2) CONTINUE SWITCH DOWN TO ENTER ANSWER
? 3) REPEAT 1 & 2 UNTIL ALL QUESTIONS ARE
? ANSWERED.
? 4) AFTER LAST QUESTION, SET SWITCH REGISTER
? FOR LOGGING PARAMETERS (SEE NOTE 4).
? 5) PRESS CONTINUE SWITCH DOWN
?
? TO KEEP PRIOR ANSWER - SET SW0 TO 1 & CONTINUE
? TO CHANGE ANSWER - SET APPROPRIATE SW TO
? OCTAL & CONTINUE
?
? ACCUMULATORS CONTAIN THE FOLLOWING INFORMATION FOR
? EACH QUESTION:
?
? AC1 - PREVIOUS OR DEFAULTED ANSWER
? AC2 - QUESTION #
? AC3 - ADDRESS OF QUESTION
?
? *****
? LOGGING DEVICE QUESTIONS
? *****
?
? LOGGING QUESTIONS WILL ONLY BE ASKED ON
? FIRST USE OF LPT SINCE TEST LOAD.
?
? LOGGING DEVICE QUESTIONS ARE:
?
? QUESTION # 101
? LPT(0) DCH=LPT(1) TTO(2) OR MUX(3)
? SWITCH ANSWERS:
? (A) 0 OCTAL (ALL SWITCHES DOWN), LPT
? (B) 1 OCTAL (SWITCH 15 UP), DATA-CHANNEL LPT
? (C) 2 OCTAL (SWITCH 14 UP), TTO
? (D) 3 OCTAL (SWITCHES 14 & 15 UP), QUAD-MUX TTO
?
? QUESTION # 102
? DEVICE CODE?
? POSSIBLE SWITCH ANSWERS
? (THESE ARE MOST LIKELY CONFIGURATIONS):
? (A) 17 OCTAL (SWITCHES 12 TO 15 UP), LPT
? (B) 17 OCTAL (SWITCHES 12 TO 15 UP), DATA-CHANNEL LPT
? (C) 11 OCTAL (SWITCH 12 & 15 UP) OR
? 51 OCTAL (SWITCHES 10, 12 & 15 UP), TTO
? (D) 30 OCTAL (SWITCHES 11 & 12 UP) OR
? 70 OCTAL (SWITCHES 10 TO 12 UP), QUAD-MUX TTO
?
? QUESTION # 103
? IF QUAD-MUX TTO THEN ALSO ANSWER:
? 103 - LINE NUMBER (0-77)?
? SWITCH ANSWERS: (MOST LIKELY 0)
?
? *****

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10007 .MAIN

**00000 TOTAL ERRORS, 00000 PASS 1 ERRORS