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001
(ENTRY POINT A)
THIS MAP SHOULD NOT BE ENTERED UNLESS AN
ERROR HAS OCCURRED WHILE EXECUTING
SYSTEM TEST, AND THEN ONLY WHEN THE
DEVICE TYPE FIELD IS EQUAL TO HEXADECIMAL'50'.

NOTE: IN THIS MAP DEVICE (0) WILL INDICATE THE
EVEN-NUMBERED DEVICE ADDRESS WHILE DEVICE (1)
WILL INDICATE THE ODD-NUMBERED DEVICE ADDRESS
OF THE TIMER ATTACHMENT CARD

DOES RTN = 0001 ?
Y N
002
DOES RTN = 0002 ?
Y N
003
DOES RTN = 0003 ?
Y N
004
DOES RTN = 0004 ?
Y N
005
DOES RTN = 0005 ?
Y N

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006
DOES CKPT = 0000 ?
Y N
007
DOES CKPT = 0001 ?
Y N
008
DOES IO = 07 ?
Y N
009
COMMAND REJECT FROM ATTACHMENT CARD
PREPARE - LEVEL = 2
WRITE MODE (DEVICE 0 AND 1)
WRITE VALUE (DEVICE 0 AND 1)
START TIMER EXTERNAL GATE (DEVICE 0
AND 1)
010
START TIMER EXTERNAL GATE FAILED
CHECK DCB, FLAGS AND ISB
DEV4 - MODE WHEN FAILURE OCCURRED
011
DOES IO = 07 ?
Y N
012
COMMAND REJECT FROM ATTACHMENT CARD
PREPARE - LEVEL = 1
WRITE MODE (DEVICE 0 AND 1)
WRITE VALUE (DEVICE 0 AND 1)
START TIMER EXTERNAL GATE (DEVICE 0 AND
1)
013
START TIMER EXTERNAL GATE FAILED
CHECK DCB, FLAGS AND ISB
DEV4 - MODE WHEN FAILURE OCCURRED
014
DOES IO = 07 ?
Y N
015
COMMAND REJECT FROM ATTACHMENT CARD
PREPARE - LEVEL = 0
WRITE MODE (DEVICE 0 AND 1)
WRITE VALUE (DEVICE 0 AND 1)
START TIMER EXTERNAL GATE (DEVICE 0 AND 1)
016
START TIMER EXTERNAL GATE FAILED
CHECK DCB, FLAGS AND ISB
DEV4 - MODE WHEN FAILURE OCCURRED
017
DOES CKPT = 0000 ?
Y N
018
DOES CKPT = 0001 ?
Y N
019
DOES CKPT = 0002 ?
Y N
020
DOES CKPT = 0003 ?
Y N
021
READ MODE ERROR
DEV1 = EXPECTED DATA
DCB2 = RECEIVED DATA
ERROR ON TIMER ONE

TIMER SYSTEM TEST ERROR MAP

PAGE 3 OF 6

022
READ MODE ERROR
DEV1 = EXPECTED DATA
DCB2 = RECEIVED DATA
ERROR ON TIMER ZERO

023
COMMAND REJECT FROM ATTACHMENT CARD
READ MODE (DEVICE ZERO AND ONE)

024
COMMAND REJECT FROM ATTACHMENT CARD
WRITE MODE (DEVICE ZERO AND ONE)

025
COMMAND REJECT FROM ATTACHMENT CARD
PREPARE - LEVEL = 1
DEVICE ZERO OR ONE

026
DOES CKPT = 0000 ?
Y N

027
DOES CKPT = 0001 ?
Y N

028
DOES CKPT = 0002 ?
Y N

029
DOES CKPT = 0003 ?
Y N

030
READ VALUE ERROR
DEV1 = EXPECTED DATA
DCB2 = RECEIVED DATA
ERROR ON TIMER ONE

031
READ VALUE ERROR
DEV1 = EXPECTED DATA
DCB2 = RECEIVED DATA
ERROR ON TIMER ZERO

032
COMMAND REJECT FROM ATTACHMENT CARD
READ VALUE (DEVICE ZERO AND ONE)

033
COMMAND REJECT FROM ATTACHMENT CARD
WRITE VALUE (DEVICE ZERO AND ONE)

034
COMMAND REJECT FROM ATTACHMENT CARD
PREPARE - LEVEL = 1
DEVICE ZERO OR ONE

035
DOES CKPT = 0000 ?
Y N

036
DOES CKPT = 0001 ?
Y N

037
DOES CKPT = 0002 ?
Y N

038
COMMAND REJECT FROM ATTACHMENT CARD
RESET (DEVICE ZERO OR ONE)

039
DOES IN = 03 ?
Y N

040
COMMAND REJECT ERROR
DEVICE ONE

TIMER SYSTEM TEST ERROR MAP

PAGE 4 OF 6

041
CHECK DCB, FLAGS AND ISB
ERROR EXPECTED - GOOD RECEIVED

042
DOES IN = 03 ?
Y N

043
COMMAND REJECT ERROR
DEVICE ZERO

044
CHECK DCB, FLAGS AND ISB
ERROR EXPECTED - GOOD RECEIVED

045
COMMAND REJECT FROM ATTACHMENT CARD
PREPARE = LEVEL 1
(DEVICE ZERO OR ONE)

046
DOES CKPT = 0000 ?
Y N

047
DOES CKPT = 0001 ?
Y N

048
DOES CKPT = 0002 ?
Y N

049
DOES CKPT = 0003 ?
Y N

050
DOES CKPT = 0004 ?
Y N

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051
DOES IO = 07 ?
Y N
- 052
  COMMAND REJECT FROM ATTACHMENT CARD
  READ VALUE (DEVICE ZERO OR ONE)
- 053
  DATA ERROR FROM READ VALUE
  IF DEVICE ZERO - DCB2 IS NOT EQUAL TO DCB4
  IF DEVICE ONE -- DCB2 IS NOT EQUAL TO DCB7

054
DOES IO = 07 ?
Y N
- 055
  COMMAND REJECT FROM ATTACHMENT CARD
  READ MODE (DEVICE ZERO OR ONE)
- 056
  DATA ERROR FROM READ MODE
  IF DEVICE ZERO - DCB2 IS NOT EQUAL TO HEXADECIMAL'0000'
  IF DEVICE ONE -- DCB2 IS NOT EQUAL TO HEXADECIMAL'0000'

057
COMMAND REJECT FROM ATTACHMENT CARD
RESET (DEVICE ONE)
STOP (DEVICE ZERO)

058
DOES IO = 07 ?
Y N
- 059
  COMMAND REJECT FROM ATTACHMENT CARD
  READ VALUE (DEVICE ZERO OR ONE)
- 060
  DATA ERROR FROM READ VALUE
  IF DEVICE ZERO - DCB2 IS NOT EQUAL TO DCB4
  IF DEVICE ONE -- DCB2 IS NOT EQUAL TO DCB7

061
DOES IO = 07 ?
Y N
- 062
  COMMAND REJECT FROM ATTACHMENT CARD
  READ MODE (DEVICE ZERO OR ONE)

063
DATA ERROR FROM READ MODE
IF DEVICE ZERO - DCB2 IS NOT EQUAL TO HEXADECIMAL'0000'
IF DEVICE ONE -- DCB2 IS NOT EQUAL TO DCB8

064
COMMAND REJECT FROM ATTACHMENT CARD
PREPARE - LEVEL = 1
RESET (DEVICE ZERO)
STOP (DEVICE ONE)

PAGE 6 OF 6

065
DOES CKPT = 0000 ?
Y N
- 066
  DOES CKPT = 0001 ?
  Y N
  - 067
    DOES CKPT = 0002 ?
    Y N
    - 068
      COMMAND REJECT FROM ATTACHMENT CARD
      READ MODE DEVICE ONE
      READ VALUE DEVICE ONE
    - 069
      COMMAND REJECT FROM ATTACHMENT CARD
      READ MODE DEVICE ZERO
      READ VALUE DEVICE ZERO

070
DOES IO = 07 ?
Y N
- 071
  COMMAND REJECT FROM ATTACHMENT CARD
  READ ID DEVICE ONE

072
WRONG ID RECEIVED
DEV3 = RECEIVED ID
DEV4 = EXPECTED ID
(DEVICE ONE)

073
DOES IO = 07 ?
Y N
- 074
  COMMAND REJECT FROM ATTACHMENT CARD
  PREPARE - LEVEL = 1 (DEVICE ZERO OR ONE)
  READ ID DEVICE ZERO

075
WRONG ID RECEIVED
DEV3 = RECEIVED ID
DEV4 = EXPECTED ID
(DEVICE ZERO)

001
(ENTRY POINT A)
THIS MAP SHOULD NOT BE ENTERED UNLESS AN
ERROR HAS OCCURRED WHILE EXECUTING
SYSTEM TEST, AND THEN ONLY WHEN THE
DEVICE TYPE FIELD IS EQUAL TO HEXADECIMAL'58'.

DOES RTN = FFFF ?
Y N

002
DOES RTN = 0000 ?
Y N

003
DOES RTN = 0001 ?
Y N

004
DOES RTN = 0002 ?
Y N

005
DOES RTN = 0003 ?
Y N

006
DOES RTN = 0004 ?
Y N

007
DOES RTN = 0005 ?
Y N

008
DOES RTN = 0006 ?
Y N

009
ERROR ON A WRITE TAPE MARK.
GO TO PAGE 7, STEP 058,
ENTRY POINT B.

010
ERROR WHILE WRITING LONG RECORDS FROM
STORAGE.
GO TO PAGE 7, STEP 058,
ENTRY POINT B.

011
DOES CKPT = 0000 ?
Y N

012
DOES CKPT = 0001 ?
Y N

013
DOES CKPT = 0002 ?
Y N

014
ERROR WHILE A SPACE TAPE MARK FORWARD
WAS EXECUTING.
GO TO PAGE 7, STEP 058,
ENTRY POINT B.

015
ERROR WHILE A SPACE TAPE MARK BACKWARD
WAS EXECUTING.
GO TO PAGE 7, STEP 058,
ENTRY POINT B.

016
ERROR WHILE A WRITE TAPE MARK WAS
EXECUTING.
GO TO PAGE 7, STEP 058,
ENTRY POINT B.

017
ERROR WHILE MANY ERASE COMMANDS WERE
EXECUTING.
GO TO PAGE 7, STEP 058, ENTRY POINT B.

018
DOES CKPT = 0000 ?
Y N

019
DOES CKPT = 0001 ?
Y N

020
DOES CKPT = 0002 ?
Y N

021
DOES CKPT = 0003 ?
Y N

022
DOES CKPT = 0004 ?
Y N

PAGE 3 OF 10

023
ERROR WHILE A SPACE TAPE MARK FORWARD WAS EXECUTING.
GO TO PAGE 7, STEP 058,
ENTRY POINT B.

024
ERROR WHILE A SPACE TAPE MARK BACKWARD WAS EXECUTING.
GO TO PAGE 7, STEP 058,
ENTRY POINT B.

025
ERROR WHILE A SPACE RECORD BACKWARD WAS EXECUTING.
GO TO PAGE 7, STEP 058,
ENTRY POINT B.

026
DATA COMPARE ERROR AFTER A READ COMMAND.
GO TO PAGE 7, STEP 058,
ENTRY POINT B.

027
ERROR WHILE A READ COMMAND WAS EXECUTING.
GO TO PAGE 7, STEP 058, ENTRY POINT B.

028
ERROR WHILE A SPACE RECORD FORWARD WAS EXECUTING.
GO TO PAGE 7, STEP 058, ENTRY POINT B.

PAGE 4 OF 10

029
DOES CKPT = 0000 ?
Y N

030
DOES CKPT = 0001 ?
Y N

031
DOES CKPT = 0002 ?
Y N

032
ERROR WHILE A SPACE TAPE MARK FORWARD WAS EXECUTING.
GO TO PAGE 7, STEP 058,
ENTRY POINT B.

033
ERROR WHILE A SPACE TAPE MARK BACKWARD WAS EXECUTING.
GO TO PAGE 7, STEP 058,
ENTRY POINT B.

034
DATA COMPARE ERROR AFTER A READ COMMAND.
GO TO PAGE 7, STEP 058,
ENTRY POINT B.

035
ERROR WHILE A READ COMMAND WAS EXECUTING.
GO TO PAGE 7, STEP 058,
ENTRY POINT B.

036
DOES CKPT = 0000 ?
Y N

037
DOES CKPT = 0001 ?
Y N

038
ERROR WHILE A SPACE TAPE MARK FORWARD WAS EXECUTING.
GO TO PAGE 7, STEP 058,
ENTRY POINT B.

039
ERROR WHILE A SPACE TAPE MARK BACKWARD WAS EXECUTING.
GO TO PAGE 7, STEP 058,
ENTRY POINT B.

040
ERROR WHILE A WRITE WAS EXECUTING.

INSPECT THE STATUS IN DEV1 FOR ERROR ANALYSIS.

041
ERROR WHILE A READ ID WAS EXECUTING.

DEV3=EXPECTED DEVICE ID.
DEV4=RECEIVED DEVICE ID.

042
DOES CKPT = 0000 ?
Y N

043
ERROR DURING A REWIND.
GO TO PAGE 7, STEP 058, ENTRY POINT B.

044
ERROR DURING A WRITE TAPEMARK.
GO TO PAGE 7, STEP 058, ENTRY POINT B.

045
DOES CKPT = 0000 ?
Y N

046
DOES CKPT = 0001 ?
Y N

047
DOES CKPT = 0002 ?
Y N

048
DOES CKPT = 0003 ?
Y N

049
DOES CKPT = 0004 ?
Y N

6 6 6 6 6 6
N P Q R S T

050
DOES CKPT = 0005 ?
Y N

051
THE DEVICE IS NOT READY OR OFF LINE.

052
ERROR DURING A WRITE TAPE MARK.
GO TO PAGE 7, STEP 058,
ENTRY POINT B.

053
FILE PROTECT BIT IS ON.

054
LOAD POINT INDICATOR NOT ON AFTER A REWIND.

055
ERROR DURING A START STATUS.
GO TO PAGE 7, STEP 058,
ENTRY POINT B.

056
ERROR DURING A REWIND.
GO TO PAGE 7, STEP 058, ENTRY POINT B.

057
ERROR ON A DEVICE RESET.
GO TO PAGE 7, STEP 058, ENTRY POINT B.

21SEP79 PN6843284
EC375482 PEC-------

21SEP79 PN6843284
EC375482 PEC-------

058
(ENTRY POINT B)
DOES IO=07 ?
Y N

059
DOES IO=06 ?
Y N

060
DOES IO=05 ?
Y N

061
DOES IO=03 ?
Y N

062
DOES IO=02 ?
Y N

8 8 8 8 8 8
U V W X Y Z

063
DOES IO=01 ?
Y N

064
DEVICE NOT ATTACHED.

065
DEVICE BUSY.

066
BUSY AFTER RESET.

067
COMMAND REJECT.

068
INTERFACE DATA CHECK.

069
CONTROLLER BUSY.

070
DOES IN=02 ?
Y N

071
DOES IN=07 ?
Y N

072
DOES IN=06 ?
Y N

073
DOES IN=04 ?
Y N

074
DOES IN=03 ?
Y N

075
CONTROLLER END.

076
DEVICE END RECEIVED.
IS BIT 1 IN THE FLAGS FIELD OFF ?
Y N

077
INSPECT DEV4
BITS 0-7 IS THE DATA READ
BITS 8-15 IS THE DATA WRITTEN

078
GO TO PAGE 9, STEP 099,
ENTRY POINT D.

079
ATTENTION.

080
ATTENTION AND EXCEPTION.

081
ATTENTION AND DEVICE END.

082
IS BIT 0 OF THE ISB OFF ?
Y N

083
IS BIT 2 OF THE ISB OFF ?
Y N

084
NOT CORRECT LENGTH ERROR.

085
IS CS-4 BIT 10 OFF ?
Y N

9 9 9
A A A
A B C

086
IS CS-5 EQUAL TO FFFF ?
Y N

087
THE BITS IN CS-5 ARE AS FOLLOWS.
BIT 0 = TIMER.
BIT 1 = TAPE CONTROLLER ERROR.
BIT 2 = CORRECTED ERROR.
BIT 3 = CRC PARITY ERROR.

BIT 4 = TAPE CONTROLLER COMMAND REJECT.
BIT 5 = ATTACHMENT B PARITY ERROR.
BIT 6 = BUFFER PARITY ERROR.
BIT 7 = TAPE CONTROLLER PARITY ERROR.

BIT 8 = EQUIPMENT CHECK.
BIT 9 = ATTACHMENT A PARITY ERROR.
BIT 10 = ATTACHMENT LOCAL TIMEOUT.
BIT 11 = C/S STATUS ERROR.

BIT 12-15 = RETRY COUNT.
INSPECT CS-5 FOR ERROR BITS.
ARE ALL OF THE BITS 0-11 IN CS-5 OFF ?
Y N

088
CAUTION IF BITS 1 AND 7 ARE THE ONLY
BITS ON IN CS-5
SUSPECT A POSSIBLE MEDIA PROBLEM.
ANALYZE BITS 0-11 FOR ERROR
INFORMATION.

089
GO TO STEP 099,
ENTRY POINT D.

090
GO TO PAGE 10, STEP 114,
ENTRY POINT C.

091
IS CS-4 BIT 0 ON ?
Y N

092
TAPE DRIVE NOT READY.

093
IS CS-4 BIT 2 OFF ?
Y N

094
FILE PROTECT INDICATOR ON.

095
IS CS-4 BIT 4 OFF ?
Y N

096
END OF TAPE IS PRESENT.

097
IS CS-4 BIT 5 OFF ?
Y N

098
TAPE MARK WAS PRESENT DURING THE LAST DATA
MOVE.

099
(ENTRY POINT D)

THIS MAP CANNOT DETERMINE THE PROBLEM.
USE THE ERROR OUTPUT, YOU HAVE BEEN USING
FOR THIS MAP, AS YOUR ERROR INDICATIONS AND
GO TO MAP 0070 ENTRY POINT A.

100
IS BIT 1 OF THE ISB OFF ?
Y N

101
DELAYED COMMAND REJECT.

102
IS BIT 2 OF THE ISB OFF ?
Y N

103
NOT CORRECT LENGTH ERROR.

104
IS BIT 3 OF THE ISB OFF ?
Y N

105
DCB SPECIFICATION CHECK.

106
IS BIT 4 OF THE ISB OFF ?
Y N

107
STORAGE DATA CHECK.

108
IS BIT 5 OF THE ISB OFF ?
Y N

109
NOT VALID STORAGE ADDRESS.

110
IS BIT 6 OF THE ISB OFF ?
Y N

111
PROTECT CHECK.

112
IS BIT 7 OF THE ISB OFF ?
Y N

113
INTERFACE DATA CHECK.

114
(ENTRY POINT C)
IS BIT 0 OF THE FLAGS OFF ?
Y N

115
NOT EXPECTED INTERRUPT.

116
IS BIT 5 OF THE FLAGS OFF ?
Y N

117
WRONG INTERRUPT LEVEL.

118
IS BIT 6 OF THE FLAGS OFF ?
Y N

119
LOST INTERRUPT.

120
PROTECT CHECK.