

PAPER ONLY MAP

PAGE 1 OF 28

ENTRY POINTS

FROM	ENTER THIS MAP		
-----	-----	-----	-----
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
-----	-----	-----	-----
0000	A	2	001
0000	B	4	006
0000	C	11	021
0000	D	9	019
0000	E	25	065
0000	F	26	067
0000	G	27	069
0000	H	28	071

EXIT POINTS

EXIT THIS MAP		TO	
-----	-----	-----	-----
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
-----	-----	-----	-----
3	004	0020	A
7	014	0070	A
8	017	0070	A
13	025	0070	A
17	047	0070	A
28	073	0070	A
22	058	1470	A
12	023	2070	A
23	060	2070	A
24	063	2070	A

001
(ENTRY POINT A)

THIS IS A PAPER ONLY MAP.
THERE IS NO ASSOCIATED MAP
PROGRAM.
(SEE MAP 0010, SECTION 05.00.00)

IF THE FIELD REPLACEMENT UNIT
SUSPECTED IS A ONE CARD DEVICE,
IT IS THE SUSPECT FIELD
REPLACEMENT UNIT.

IF THE FIELD REPLACEMENT UNIT
SUSPECTED IS AN ATTACHMENT CARD
WITH CABLE(S) TO A DEVICE, THE
ATTACHMENT CARD SEATED IN THE
PROCESSING UNIT MUST BE
EXCHANGED.

AFTER EXCHANGING THE SUSPECT
FIELD REPLACEMENT UNIT, IF THE
SAME FAILURE IS ON THE SYSTEM,
THE CABLE(S) TO THE DEVICE AND
ASSOCIATED CARD(S) IN THE DEVICE
MUST BE INSPECTED.

HAS THE ALTERNATE CONSOLE PRINTED
OR DISPLAYED MESSAGE(S)?

Y N

|
| 002
| WERE THE DATA LAMPS RECORDED
| BEFORE THIS MAP?

| Y N

| |
| | 003
| | ARE THE DATA LAMPS '3802' OR
| | '3803'?

| | Y N

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5 4 3 3
A B C D

C D
2 2

MCK OR PCK MAP

MAP 3871-3

PAPER ONLY MAP

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| |
| |
| |
| |
| |
| |

004

YOU ARE IN THE WRONG MAP.

GO TO MAP 0020, ENTRY POINT A.

005

- RECORD THE DATA LAMPS.

GO TO PAGE 4, STEP 006,

ENTRY POINT B.

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MAP 3871-3

B MCK OR PCK MAP
2 PAPER ONLY MAP
|
| PAGE 4 OF 28
|

MAP 3871-4

006
(ENTRY POINT B)

- PRESS THE STOP KEY.

DISPLAY AND RECORD THE LEVEL 3
REGISTERS AS INDICATED BELOW.
SOME OF THIS INFORMATION WILL NOT
SEEM TO BE CORRECT.
RECORD THE INFORMATION AS
INDICATED.

LEVEL 3	
REGISTER	NUMBER IS
0	MAP NUMBER
1	STEP NUMBER
2	PSW
3	IAR
4	IDCB ADDRESS

THE IAR RECORDED FROM REGISTER 3
IS THE IAR IN USE AS A CHECK
OCCURRED.

DISPLAY AND RECORD THE MAIN
STORAGE LOCATION USING THE IDCB
ADDRESS DISPLAYED FROM REGISTER
4.

DISPLAY THE NEXT SEQUENTIAL MAIN
STORAGE LOCATION.

RECORD THIS INFORMATION.

THE STORAGE LOCATION JUST
DISPLAYED AND RECORDED IS THE
IDCB IN USE AS THE CHECK
(STEP 006 CONTINUES)

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MAP 3871-4

A
2

MCK OR PCK MAP

MAP 3871-5

PAPER ONLY MAP

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(STEP 006 CONTINUED)
OCCURRED, PER FORMAT BELOW.

IDCB

```

+-----+
| COMMAND | DEVICE ADDRESS |
+-----+

```

BIT 0 7 8 15

```

+-----+
| IMMEDIATE FIELD |
+-----+

```

BIT 16 31

BIT(S) 08 TO 15 OF IDCB CONTAIN
A DEVICE ADDRESS.

IS THE INFORMATION RECORDED?

Y N

007
GO TO PAGE 4, STEP 006,
ENTRY POINT B.

008
GO TO PAGE 11, STEP 021,
ENTRY POINT C.

009

PCK MAP=XXXXSTEP=XXXXPSW=XXXXIAR=XXXX

IDCB=XXXXXXXX

IS THE ABOVE MESSAGE ON THE
ALTERNATE CONSOLE?

Y N

|
|
|
|
|
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|
|

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9 6
E F

MAP 3871-5

F
5

MCK OR PCK MAP

MAP 3871-6

PAPER ONLY MAP

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010

MCK MAP=XXXXSTEP=XXXXPSW=XXXXIAR=XXXX

IDCB=XXXXXXXX

IS THE ABOVE MESSAGE ON THE
ALTERNATE CONSOLE?

Y N

011

IXXXXLOADED

IS THE ABOVE MESSAGE ON THE
ALTERNATE CONSOLE?

Y N

012

IF THE ALTERNATE CONSOLE IS A
DISPLAY TYPE DEVICE, THE
SCREEN MAY NOT HAVE A MESSAGE
ON IT.

USE THE DIAGNOSTIC(S) AND RUN
TO THE FAILURE POINT.

RECORD THE LAST MESSAGE
DISPLAYED ON THE SCREEN
BEFORE THE MESSAGE IS GONE.

IF THERE IS ONE, A LIST OF
THE TABLE WILL SHOW THE
SEQUENCE IN WHICH DEVICE
DIAGNOSTIC(S) ARE RUN.

USE IT TO DETERMINE WHICH
DEVICE DIAGNOSTIC CAUSED THE
CHECK.

- POWER OFF.

EXCHANGE THE ATTACHMENT CARD
INDICATED BY LAST

'IXXXXLOADED'

MESSAGE ON ALTERNATE CONSOLE
BEFORE MESSAGE WAS GONE.

(STEP 012 CONTINUES)

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8 7

G H

MAP 3871-6

H
6

MCK OR PCK MAP

MAP 3871-7

PAPER ONLY MAP

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(STEP 012 CONTINUED)

- POWER ON.

RUN THE FAILING DIAGNOSTIC(S).

IS THE FAILURE A 'MCK' OR
'PCK'?

Y N

013

- VERIFY THE REPAIR.

014

THE CARD(S) EXCHANGED DID NOT
REPAIR THE PROBLEM.

IF CONNECTED TO A DEVICE, THE
DEVICE MAY BE THE CAUSE OF THE
PROBLEM.

SOME OTHER ATTACHMENT/DEVICE ON
THE CHANNEL MAY BE THE CAUSE OF
THE PROBLEM.

THE CARD(S) EXCHANGED IN THIS
MAP ARE THE 'SUSPECT
ATTACHMENT' IN MAP 0070.

GO TO MAP 0070, ENTRY POINT A.

015

POWER OFF.

EXCHANGE THE ATTACHMENT CARD
INDICATED BY THE 'IXXXXLOADED'
MESSAGE ON THE ALTERNATE CONSOLE.

- POWER ON.

RUN THE FAILING DIAGNOSTIC(S).

IS THE FAILURE A 'MCK' OR 'PCK'?

Y N

| |
| |
| |
| |
| |
| |
| |

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8 8

J K

MAP 3871-7

G J K
6 7 7

MCK OR PCK MAP

MAP 3871-8

PAPER ONLY MAP

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016

- VERIFY THE REPAIR.

017

THE CARD(S) EXCHANGED DID NOT
REPAIR THE PROBLEM.

IF CONNECTED TO A DEVICE, THE
DEVICE MAY BE THE CAUSE OF THE
PROBLEM.

SOME OTHER ATTACHMENT/DEVICE ON
THE CHANNEL MAY BE THE CAUSE OF
THE PROBLEM.

THE CARD(S) EXCHANGED IN THIS
MAP ARE THE 'SUSPECT
ATTACHMENT' IN MAP 0070.

GO TO MAP 0070, ENTRY POINT A.

018

GO TO PAGE 9, STEP 019,
ENTRY POINT D.

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MAP 3871-8

E MCK OR PCK MAP
5 PAPER ONLY MAP
|
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|
|
019
(ENTRY POINT D)

MAP 3871-9

THE ALTERNATE CONSOLE MESSAGE HAS THIS INFORMATION:

MCK INDICATING MACHINE CHECK.

OR

PCK INDICATING PROGRAM CHECK.

AND

MAP NUMBER

STEP NUMBER

PSW

IAR

IDCB

IDCB FORMAT

```
+-----+  
| COMMAND | DEVICE ADDRESS |  
+-----+  
BIT 0      7 8          15
```

```
+-----+  
(STEP 019 CONTINUES)
```

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MAP 3871-9

L MCK OR PCK MAP
 1
 0 PAPER ONLY MAP
 |
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 |

MAP 3871-11

021
 (ENTRY POINT C)

SEE THE PSW AND IDCB BIT(S)
 PRINTED BELOW.

THE ALTERNATE CONSOLE DID PRINT
 OR DISPLAY THE IAR.
 OR

REGISTER 3 HAS THE IAR IN IT, AND
 A NOTE WAS MADE OF IT.
 USE THIS HEXADEcimal NUMBER (A
 NOTE WAS MADE OF THE IAR OR FROM
 ALTERNATE CONSOLE) FOR THE
 QUESTION:

PROCESSING UNIT STATUS WORD

BIT	
	0 SPECIFICATION CHECK
	1 NOT VALID STORAGE ADDRESS
PROGRAM CHECK	2 PRIVILEGE VIOLATE
	3 PROTECT CHECK
	4 NOT VALID FUNCTION
	5 FLOATING POINT EXCEPTION
SOFT EXCEPTION	6 STACK EXCEPTION
	7 RESERVED
	8 STORAGE PARITY CHECK
MACHINE CHECK	9 RESERVED
	10 CONTROL CHECK
	11 I/O CHECK
	12 SEQUENCE INDICATOR
STATUS FLAGS	13 AUTO IPL
	14 TRANSLATOR ENABLE
	15 POWER THERMAL WARN

IS THE IAR REFERENCED HEXADEcIMAL
 '2500' OR MORE?

Y N
 | |
 | |
 | |
 | |
 | |
 | |
 | |
 | |
 | |

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1 1
 3 2
 M N

MAP 3871-11

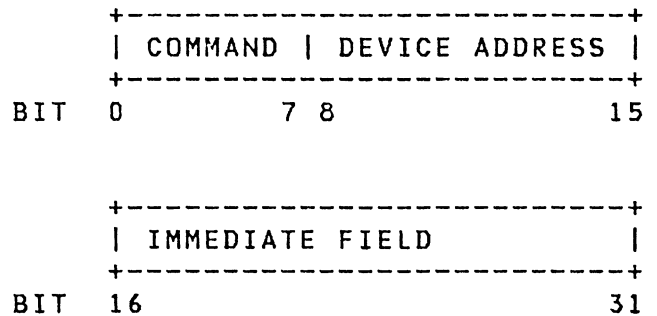
1
1 PAPER ONLY MAP

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|

022

THE IAR REFERENCED IS LESS THAN
HEXADECIMAL '2500'.
REFERENCE IDCB BIT(S) 08 TO 15
FROM BEFORE.
SEE IF THE IDCB BIT(S) 08 TO 15
CONTAIN A DEVICE ADDRESS VALID
FOR A DEVICE TYPE INSTALLED ON
THE SYSTEM.

IDCB FORMAT.



IS THE DEVICE ADDRESS VALID FOR A
DEVICE TYPE INSTALLED ON THE
SYSTEM?

Y N

| 023

| THIS IS A PROCESSING UNIT
| PROBLEM.
| THE IAR IS THE MAIN STORAGE
| ADDRESS OF THE LAST INSTRUCTION
| PERFORMED.
GO TO MAP 2070, ENTRY POINT A.
IF NO REPAIR, RETURN HERE.
GO TO PROCESSING UNIT MAP 2000
AND DIAGNOSE THE FAILURE.
REFERENCE PROCESSING UNIT MAP
2000 FOR INSTRUCTION(S) FOR
LOOPING THE PROCESSING UNIT
DIAGNOSTIC(S).
LOOP WITH STOP ON ERROR MAY BE
AN AID.
REFERENCE MAP NUMBER AND DEVICE
ADDRESS FROM BEFORE.
GO TO PAGE 26, STEP 067,
ENTRY POINT F.

1
3
P

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M P MCK OR PCK MAP
1 1
1 2 PAPER ONLY MAP

MAP 3871-13

| | PAGE 13 OF 28

| |
| |
| 024
| IS IT A CORRECT ADDRESS FOR A
| DEVICE INSTALLED ON SYSTEM?
| Y N

| |
| | 025
| | GO TO MAP 0070,
| | ENTRY POINT A.

| |
| 026
| GO TO PAGE 26, STEP 067,
| ENTRY POINT F.

|
027
IS MCK STOP (3803 IN THE DATA
LAMPS)?
Y N

| |
| 028
| IS PCK STOP (3802 IN THE DATA
| LAMPS)?
| Y N

| |
| | 029
| | GO TO PAGE 25, STEP 065,
| | ENTRY POINT E.

| |
| 030
| PROGRAM CHECK STOP.
| THERE IS A PROGRAM CHECK FOR
| USING AN INSTRUCTION THAT IS
| NOT CORRECT.
| AS AN EXAMPLE, A BIT IN A
| REGISTER THAT IS NOT CORRECT
| WILL CAUSE A PROGRAM TO GO TO A
| DATA AREA.
| THIS DATA AREA WOULD OPERATE AS
| AN INSTRUCTION.
| THE PROGRAM WOULD SEE THIS AS A
| PROGRAM CHECK.
| IT IS NOT A PROGRAM CHECK, IT
| IS A HARDWARE PROBLEM.
| (STEP 030 CONTINUES)

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1
4
Q

MAP 3871-13

A A MCK OR PCK MAP
H J
1 1 PAPER ONLY MAP
6 6
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| |
| |
| 046
| IS BIT 00 ON IN THE PSW?
| Y N
| |
| | 047
| | GO TO MAP 0070,
| | ENTRY POINT A.
| |
| 048
| BIT 00 IS ON IN THE PSW.
| SPECIFICATION CHECK.
| BIT 00 IS TURNED ON IF THE
| STORAGE ADDRESS IS NOT IN THE
| AREA SPECIFICATION.
|
| IF 4955 PROCESSING UNIT IS
| INSTALLED,
EXCHANGE THE FOLLOWING:
ROS CARD.
ADDRESS TRANSLATOR CARD.
IF A 495X PROCESSING UNIT IS
INSTALLED,
EXCHANGE THE FOLLOWING:

PROCESSING UNIT CARD.
049
BIT 01 IS ON IN THE PSW.
THE STORAGE ADDRESS IS NOT VALID.
BIT 01 IS TURNED ON IF AN
INSTRUCTION ATTEMPTS TO READ OR
WRITE A STORAGE LOCATION THAT IS
NOT ON THE SYSTEM.

IF 4955 PROCESSING UNIT IS
INSTALLED,
EXCHANGE THE FOLLOWING:

ADDRESS CARD.
(STEP 049 CONTINUES)

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A A MCK OR PCK MAP
F G
1 1 PAPER ONLY MAP
6 6
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MAP 3871-18

| |
| | (STEP 049 CONTINUED)
| |
| | IF 495X PROCESSING UNIT IS
| | INSTALLED,
| | EXCHANGE THE FOLLOWING:
| | -----
| | PROCESSING UNIT CARD.

| |
| 050
| BIT 02 IS ON IN THE PSW.
| PRIVILEGE VIOLATE.
| BIT 02 IS TURNED ON IF A
| PRIVILEGE INSTRUCTION IS
| PERFORMED, AND THE SUPERVISOR
| STATUS BIT (BIT 8) IN THE LEVEL
| STATUS REGISTER IS OFF.
| NOT SUPERVISOR STATUS.
| IF 4955 PROCESSING UNIT IS
| INSTALLED,
EXCHANGE THE FOLLOWING:
ADDRESS TRANSLATOR CARD.

| |
| IF 495X PROCESSING UNIT IS
| INSTALLED,
EXCHANGE THE FOLLOWING:
PROCESSING UNIT CARD.

| |
| 051
| BIT 03 IS ON IN THE PSW.
| PROTECT CHECK (4955).
| THE PROGRAM IS IN A PROTECTED
| STORAGE AREA.

| |
EXCHANGE THE FOLLOWING:
ADDRESS TRANSLATOR CARD.
ADDRESS CARD.

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MAP 3871-18

A A MCK OR PCK MAP
D E
1 1 PAPER ONLY MAP
6 6
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MAP 3871-19

| |
| |
| 052
| BIT 04 IS ON IN THE PSW.
| THE FUNCTION IN USE IS NOT
| VALID.
| BIT 04 IS TURNED ON FOR A
| COMMAND AND/OR FUNCTION DECODE
| THAT IS NOT VALID.

| IF 4955 PROCESSING UNIT IS
| INSTALLED,
EXCHANGE THE FOLLOWING:
ROS CARD.

| IF 495X PROCESSING UNIT IS
| INSTALLED,
EXCHANGE THE FOLLOWING:
PROCESSING UNIT CARD.

053
BIT 05 IS ON IN THE PSW.
FLOATING POINT EXCEPTION (4955).

EXCHANGE THE FOLLOWING:

DATA CARD.
FLOATING POINT CARD.

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MAP 3871-19

A A MCK OR PCK MAP
A B
1 1 PAPER ONLY MAP
5 5
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MAP 3871-20

| |
| |
| 054
| BIT 06 IS ON IN THE PSW.
| STACK EXCEPTION.
| BIT 06 IS TURNED ON IF AN
| INSTRUCTION ATTEMPTS TO TAKE
| FROM AN EMPTY STACK, OR AN
| INSTRUCTION ATTEMPTS TO INSERT
| INTO A STACK THAT IS FILLED.

| IF 4955 PROCESSING UNIT IS
| INSTALLED,
EXCHANGE THE FOLLOWING:
ADDRESS CARD.

| IF 495X PROCESSING UNIT IS
| INSTALLED,
EXCHANGE THE FOLLOWING:
PROCESSING UNIT CARD.

| 055
| BIT 07 IS ON IN THE PSW.
| NOT USED.

| IF 4955 PROCESSING UNIT IS
| INSTALLED,
EXCHANGE THE FOLLOWING:
ADDRESS CARD.

| IF 495X PROCESSING UNIT IS
| INSTALLED,
EXCHANGE THE FOLLOWING:
PROCESSING UNIT CARD.

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MAP 3871-20

Y Z MCK OR PCK MAP
1 1
5 5 PAPER ONLY MAP

MAP 3871-21

| | PAGE 21 OF 28

| |
| |
| |
| 056

| BIT 13 IS ON IN THE PSW.
| AUTO IPL.

| IF THE MODE SWITCH ON THE
| CONSOLE IS IN 'AUTO IPL', AND
| THE HOST SYSTEM IS READY, POWER
| ON WILL CAUSE AN IPL TO OCCUR
| AND THIS BIT IS TURNED ON.

| IF 4955 PROCESSING UNIT IS
| INSTALLED,
| EXCHANGE THE FOLLOWING:

| ROS CARD.
| ADDRESS CARD.

| IF 495X PROCESSING UNIT IS
| INSTALLED,
| EXCHANGE THE FOLLOWING:

| PROCESSING UNIT CARD.

|
057

BIT 14 IS ON IN THE PSW.
TRANSLATOR ENABLE.

IF 4955 PROCESSING UNIT IS
INSTALLED,
EXCHANGE THE FOLLOWING:

RELOCATION TRANSLATOR CARD.
ADDRESS CARD.

IF 495X PROCESSING UNIT IS
INSTALLED,
EXCHANGE THE FOLLOWING:

PROCESSING UNIT CARD.

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MAP 3871-21

X
1
5

MCK OR PCK MAP

MAP 3871-22

PAPER ONLY MAP

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|
|
|
058

BIT 15 IS ON IN THE PSW.

POWER/THERMAL PROBLEM.

GO TO MAP 1470, ENTRY POINT A.

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MAP 3871-22

V MCK OR PCK MAP
1
4 PAPER ONLY MAP

MAP 3871-23

| PAGE 23 OF 28
|
|

059
BIT 08 IS ON IN THE PSW.
STORAGE PARITY CHECK.
- PRESS THE STOP KEY.

DISPLAY LEVEL 3 REGISTER 7.
THE STORAGE ADDRESS REGISTER IS
IN REGISTER 7.
USING THIS ADDRESS, (STORAGE
ADDRESS REGISTER IN REGISTER 7),
DETERMINE WHICH 16K AREA OF
STORAGE FAILED.

LEVEL 3 REG 7	
STORAGE ADDRESS	STORAGE AREA THAT FAILED
0000--3FFF	16K
4000--7FFF	32K
8000--BFFF	48K
C000--FFFF	64K

EXCHANGE THE STORAGE CARD OR
MODULE WITH THE SUSPECT 16K AREA
ON IT WITH A KNOWN GOOD STORAGE
CARD OR MODULE OF THE SAME TYPE.
RUN THE FAILING DIAGNOSTIC.

IS THE SYSTEM O.K.?

Y N

| 060
| GO TO MAP 2070, ENTRY POINT A.
|
|

2
4
A
K

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MAP 3871-23

1 1 1 K

4 4 4 2 PAPER ONLY MAP

3

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061

- VERIFY THE REPAIR.

062

BIT 09 IS ON IN THE PSW.

NOT USED.

THERE MAY BE A SHORT IN THE STORAGE ADDRESS OF THE PROCESSING UNIT.

IF 4955 PROCESSING UNIT IS INSTALLED, EXCHANGE THE FOLLOWING:

ADDRESS CARD.

IF 495X PROCESSING UNIT IS INSTALLED, EXCHANGE THE FOLLOWING:

PROCESSING UNIT CARD.

063

THIS IS A SUSPECTED PROCESSING UNIT PROBLEM.

GO TO THE CORRECT PROCESSING UNIT MAP.

GO TO MAP 2070, ENTRY POINT A.

064

REFERENCE THE MAP NUMBER AND DEVICE ADDRESS FROM BEFORE.

GO TO PAGE 26, STEP 067,

ENTRY POINT F.

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R MCK OR PCK MAP
1
4 PAPER ONLY MAP
|
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|

MAP 3871-25

065
(ENTRY POINT E)

BIT 12 IS ON IN THE PSW. THE I/O
CHECK OCCURRED IN A CYCLE STEAL
OPERATION.
THE MAP NUMBER, DEVICE TYPE AND
ADDRESS MUST BE COMPATIBLE IF A
DEVICE TYPE IS RUN.
THE CHECK OCCURRED IN A CYCLE
STEAL OPERATION AND THIS MAY NOT
BE CORRECT.

DO MAP NUMBER AND DEVICE ADDRESS
COMPARE AS TO DEVICE TYPE?
Y N

| 066
| NOTE THE ATTACHMENT CARD
| INDICATED BY THE MAP NUMBER.
| GO TO PAGE 27, STEP 069,
| ENTRY POINT G.

| -----
| NOTE THE ATTACHMENT CARD
| INDICATED BY THE DEVICE ADDRESS
| OF THE IDCB, BIT(S) 08 TO 15.
| GO TO PAGE 27, STEP 069,
| ENTRY POINT G.

2
6
A
L

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MAP 3871-25

A MCK OR PCK MAP
N
2 PAPER ONLY MAP
7
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MAP 3871-28

|
|
071
(ENTRY POINT H)

RESEAT THE ATTACHMENT/DEVICE
CARD(S) INDICATED BY THE MAP
NUMBER OR BY THE
ATTACHMENT/DEVICE ADDRESS.
RUN THE PROGRAM AGAIN.
IF NO REPAIR,
EXCHANGE THE ATTACHMENT/DEVICE
CARD(S) INDICATED BY THE MAP
NUMBER OR BY THE
ATTACHMENT/DEVICE ADDRESS WITH
GOOD CARD(S).
RUN THE FAILING DIAGNOSTIC(S).

IS THE SYSTEM FAILURE 'MCK' OR
'PCK'?

Y N

|
| 072
| VERIFY THE SYSTEM OPERATION IS
| CORRECT.
|
| - RETURN THE SYSTEM.
|

073
THE CARD(S) EXCHANGED DID NOT
REPAIR THE PROBLEM.
IF CONNECTED TO A DEVICE, THE
DEVICE MAY BE THE CAUSE OF THE
PROBLEM.
SOME OTHER ATTACHMENT/DEVICE ON
THE CHANNEL MAY BE THE CAUSE OF
THE PROBLEM.

THE CARD(S) EXCHANGED IN THIS MAP
ARE THE 'SUSPECT ATTACHMENT CARD'
IF IN MAP 0070.
GO TO MAP 0070, ENTRY POINT A.

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MAP 3871-28