

PAPER ONLY

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ENTRY POINTS

-----			
FROM	ENTER THIS MAP		
-----			
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
-----			
0020	A	2	001
0020	AM	44	121
0020	DC	26	066
0020	DL	13	031
0020	EM	38	097
0020	ID	9	017
0020	IG	22	054
0020	LK	4	005
0020	LP	54	142
0020	MK	65	172
0020	MM	33	086
0020	NT	48	129
0020	PM	40	109
0020	PN	60	159
0020	ST	66	175
0020	TO	57	150
0020	VL	46	123

EXIT POINTS

-----			
EXIT THIS MAP		TO	
-----			
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
-----			
16	041	0020	ID
47	126	0022	A
35	091	0022	PA
12	025	0070	A
16	039	0070	A
23	058	0070	A
39	102	0070	A
41	114	0070	A
53	140	0070	A
56	146	0070	A
57	148	0070	A
66	177	0070	A
67	180	0070	A
68	186	0072	A
13	029	0170	A
23	059	0170	A
27	069	0170	A
11	022	2070	DL
2	002	2070	LL
52	136	2070	PC
56	147	2070	PR
13	030	2070	PW
3	004	2070	RK
13	028	2570	A
16	040	3871	A
57	149	3871	A
17	044	3881	A
17	045	3881	A
18	047	3881	A
17	044	3882	A
17	045	3882	A
18	047	3882	A
24	061	4001	A
24	060	7870	A
24	060	7970	A

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001  
(ENTRY POINT A)

- SEE THE PROCESSING UNIT INSTALLED.
- SEE THE 'POWER ON' INDICATIONS.
- ENSURE YOUR PROCESSING UNIT 'POWER ON' IS CORRECT.
- SEE THE CONSOLE FOR THE NOTED CONDITIONS.

```

+-----+
| POWER THE PROCESSING UNIT ON. |
| THESE DIAGNOSTICS RUN: ROS - |
| - DATA LEDS - STORAGE TESTS |
|-----|
| IF 495X | AFTER 15 SECONDS, |
| PROCESSING | DATA LEDS = FFFF |
| UNIT +-----|
| TYPE |STOP |LEVEL |POWER |OTHER|
| IS: |LED |O LED |LED |LEDS |
|-----+-----+-----+-----+
| 4952 | ON | ON | ON | OFF |
|-----+-----+-----+-----+
| 4953 | ON | ON | ON | OFF |
|-----+-----+-----+-----+
| 495X | ON | OFF | ON | OFF |
|-----+-----+-----+-----+
| CONSOLE IS SILENT (NO SOUND). |
+-----+

```

ARE ALL THE CONDITIONS MET?

Y N

002  
GO TO MAP 2070, ENTRY POINT LL.

3  
A

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MAP 0021-2

A  
2

CONSOLE INPUT ENTRY

MAP 0021-3

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003

- PRESS THE RESET KEY.
- SEE THE CONSOLE FOR THE NOTED CONDITIONS.

```

+-----+
| DATA AND ROS TESTS RUN AS |
| KEY IS PRESSED AND RELEASED. |
| AFTER 15 SECONDS, THE DATA |
| LEDS EQUAL 0000. |
+-----+
| TYPE | STOP | LEVEL | OTHER |
|      | LED  | 0 LED | LEDS  |
+-----+
| 4952 | ON   | ON   | OFF   |
+-----+
| 4953 | ON   | ON   | OFF   |
+-----+
| 495X | ON   | OFF  | OFF   |
+-----+
| POWER ON LED IS ON. CONSOLE |
| CONSOLE IS SILENT (NO SOUND) |
+-----+

```

ARE ALL THE CONDITIONS MET?

Y N

004

- RECORD ALL LEDS FOR LATER USE.
- GO TO MAP 2070, ENTRY POINT RK.

4  
B

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MAP 0021-3

3

PAPER ONLY

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005

(ENTRY POINT LK)

- ENSURE NO DISKETTE(S) ARE INSTALLED IN THE DISKETTE UNIT.
- SEE THE LOAD LED.
- PRESS THE LOAD KEY.
- WAIT 15 SECONDS.

NOTE

-----

IF INSTALLED, THE MATRIX PRINTER MUST HAVE WIDE ONE PART PAPER INSTALLED.  
 YOU DO NOT WANT TO PRINT ON THE EDGE OF THE PAPER, OR ON THE PERFORATION OF MORE THAN ONE PART PAPER.

DID THE LOAD LED GO ON AND REMAIN ON?

Y N

|

| 006

- | - SEE THE LOAD LED.

|

| DID THE LOAD LED GO ON?

| Y N

|

| | 007

| | THE LOAD LED DID NOT GO ON.

| |

- | | - SEE THE AUDIBLE DEVICE.

- | | - SEE IF THE AUDIBLE DEVICE SOUNDED WHEN THE LOAD KEY WAS PRESSED.

| |

| | DID THE AUDIBLE DEVICE SOUND WHEN THE KEY WAS PRESSED?

| | Y N

| | |

| | |

| | |

| | |

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| | |

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C D E F

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E F  
4 4

CONSOLE INPUT ENTRY

MAP 0021-5

PAPER ONLY

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008

- TEST THE 'LOAD' KEY FOR AN  
OPEN.

+-----+  
|PROCESS| GO TO MAP 107X, |  
|UNIT IS| ENTRY POINT A. |

4952	1071
4953	1071
4955	1071
495X	1072

+-----+  
| IF TEST IS GOOD: GO TO |  
| MAP 2070, ENTRY POINT PC |

009

- TEST THE 'LOAD' LED FOR AN  
OPEN.

+-----+  
|PROCESS| GO TO MAP 107X, |  
|UNIT IS| ENTRY POINT A. |

4952	1071
4953	1071
4955	1071
495X	1072

+-----+  
| IF TEST IS GOOD: GO TO |  
| MAP 2070, ENTRY POINT PC |

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MAP 0021-5

D  
4

CONSOLE INPUT ENTRY

MAP 0021-6

PAPER ONLY

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010

THE LOAD LED WENT ON, AND THEN OFF.

IF THE 'IPL' SOURCE SWITCH IS NOT IN THE CORRECT SETTING, THE PROCESSING UNIT CAN IPL TO THE WRONG DEVICE.

- SEE THE IPL SOURCE SWITCH FOR THE CORRECT POSITION.

IS THE IPL SOURCE SWITCH CORRECT?

Y N

011

- SET THE IPL SOURCE SWITCH TO THE CORRECT SETTING.

- SEE THE MODE SWITCH FOR THE CORRECT SETTING.

GO TO PAGE 4, STEP 005,  
ENTRY POINT LK.

7  
G

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MAP 0021-6

C G            CONSOLE INPUT ENTRY  
4 6

MAP 0021-7

PAPER ONLY

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012

THE IPL SOURCE IS IN THE  
CORRECT SETTING.

- TEST THE 'IPL SOURCE' SWITCH  
FOR AN OPEN.
- TEST THE 'IPL SOURCE' SWITCH  
FOR A SHORT.

```
+-----+  
|PROCESS| GO TO MAP 107X, |  
|UNIT IS| ENTRY POINT A. |
```

```
+-----+  
| 4952 |            1071 |  
| 4953 |            1071 |  
| 4955 |            1071 |  
| 495X |            1072 |
```

```
+-----+  
| IF TEST IS GOOD: GO TO |  
| MAP 2070, ENTRY POINT PC|
```

013

- SEE IF THE IPL DEVICE IS A 4966

IS THE DISKETTE UNIT A 4966?

Y N

014

- INSTALL THE 'BASIC'  
DIAGNOSTIC DISKETTE, P/N  
1635001.
- ENSURE THE DISKETTE UNIT IS  
READY.

GO TO PAGE 9, STEP 017,  
ENTRY POINT ID.

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8  
H

MAP 0021-7

H  
7

CONSOLE INPUT ENTRY

MAP 0021-8

PAPER ONLY

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015

- PRESS THE RESET KEY.
- REMOVE ALL CUSTOMER DISKETTE(S), IF INSTALLED.
- INSTALL THE 'BASIC' DIAGNOSTIC DISKETTE, P/N 1635001 IN PLACE ONE (1).
- ENSURE THE DISKETTE UNIT IS READY.

IS THE ACTION COMPLETE?

Y N

016

- INSTALL THE 'BASIC' DIAGNOSTIC DISKETTE, P/N 1635001.
- ENSURE THE DISKETTE UNIT IS READY.

GO TO PAGE 9, STEP 017,  
ENTRY POINT ID.

9  
J

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MAP 0021-8







Q CONSOLE INPUT ENTRY

MAP 0021-11

1  
0 PAPER ONLY

| PAGE 11 OF 68  
|  
|

021  
THE DATA LEDS DO NOT EQUAL  
'38XX', WITH THE STOP LED OFF.  
DCP FAILED TO LOAD CORRECT.

WRITE THE DATA LEDS ON PAPER.  
(THIS WILL BE NAMED THE 'WRITTEN  
DATA LEDS'). THE 'WRITTEN DATA  
LEDS' WILL BE USED LATER, IF  
NEEDED.

- PRESS THE STOP KEY.
- PRESS THE SAR KEY.
- PRESS THE ONE (1) KEY.
- PRESS THE EIGHT (8) KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE STORE KEY.
- PRESS THE MAIN STORAGE KEY.

DO THE DATA LEDS NOW EQUAL  
'F3F8'?

Y N

|  
| 022  
| THE 'DATA LEDS EQUAL' QUESTIONS  
| IN MAP 2070 MUST BE ANSWERED  
| WITH THE 'WRITTEN DATA LEDS'.  
|

| GO TO MAP 2070, ENTRY POINT DL.  
|

023  
THE DATA LEDS EQUAL 'F3F8'.  
DCP IS LOADED.

- PRESS THE START KEY.

DID THE 'WRITTEN DATA LEDS' EQUAL  
'38XX'?

Y N

| |  
| |  
| |  
| |  
| |

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1 1  
2 2  
R S

MAP 0021-11

1 1

1 1

PAPER ONLY

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024

- SEE THE NOTE --->

THE DIAGNOSTIC DISKETTE  
INSTALLED IN THE IPL DISKETTE  
UNIT IS SUSPECT.

- REMOVE THE DIAGNOSTIC DISKETTE.
- INSERT THE SYSTEM TEST DISKETTE. (P/N 1635003)
- ENSURE THE DISKETTE UNIT IS READY.
- PRESS THE LOAD KEY.
- WAIT ONE (1) MINUTE.

THE SYSTEM TEST DISKETTE WILL  
SHOW A CORRECT IPL BY:  
RDY  
ENTER  
PRINTED OR DISPLAYED, OR:  
'34XX' IN THE DATA LEDS.

WAS THE SYSTEM TEST DISKETTE  
IPL CORRECT?

Y N

025

GO TO MAP 0070,  
ENTRY POINT A.

026

THE FIRST DIAGNOSTIC DISKETTE  
IS NOT GOOD. OBTAIN A GOOD  
DIAGNOSTIC DISKETTE.

027

THE 'DATA LEDS EQUAL' QUESTIONS  
MUST BE ANSWERED WITH THE  
'WRITTEN DATA LEDS'.  
GO TO PAGE 13, STEP 031,  
ENTRY POINT DL.

NOTE:

IPL THESE DISKETTES ONLY:

BASIC DISKETTE P/N 1635001.  
SYSTEM TEST DISKETTE P/N 1635003.

IF IPL IS NEEDED, INSERT THE  
BASIC DISKETTE P/N 1635001, AND  
PRESS THE LOAD KEY.  
AT HALT '3800', INSERT THE  
DISKETTE WITH THE PROGRAM YOU  
WANT TO RUN.

IF THE DATA LEDS PULSE WITH  
'EEEE', AND STOPS WITH '006A' IN  
THE LEDS, YOU CANNOT IPL THE  
DISKETTE.

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A  
B  
1  
4

CONSOLE INPUT ENTRY

MAP 0021-15

PAPER ONLY

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|  
|  
038

- SEE THE DCP HALT LIST BELOW.  
FOR A DESCRIPTION OF THE HALTS,  
SEE MAP 0012, SECTION 06.00.00.

DATA LEDS	DESCRIPTION	ACTION TO TAKE IF INSTRUCTED:
3804	POWER THERMAL WARNING	GO TO MAP 1470, ENTRY POINT A.
3805	PROGRAM TERMINATE	CORRECT END OF AUTO/MANUAL RUN
3806	WRONG REQUEST	DCP RECEIVED A WRONG COMMAND.
3807	ALTERNATE CONSOLE OFF.	ALTERNATE CONSOLE IS OFF LINE.
3808	ALTERNATE CONSOLE ON.	ALTERNATE CONSOLE IS ON LINE.
3809	INTERRUPT NOT EXPECTED.	ISB = X X X X GO TO X X X X DEVICE MAP.
380A	PROGRAM STARTED	PROGRAM STARTED TO RUN.
380B	DISKETTE ERROR FROM THE 496X.	ATTEMPT AGAIN. IF SAME ERROR, GO TO THE 496X DISKETTE PROLOG

DATA LEDS	DESCRIPTION	ACTION TO TAKE IF INSTRUCTED:
380C	PROGRAM NOT FOUND	NO VTOC ENTRY FOR PROGRAM.
380E	PROBLEM PROGRAM HALT	ADDRESS = XXXX STEP = XXXX MAP= XXXX GO TO MAP INDICATED.
3810	NO ANSWER EXPECTED	ATTEMPT THE COMMAND AGAIN.
3811	DECIMAL DATA REQUEST	USE DECIMAL DATA. ATTEMPT AGAIN.
3812	INPUT INPUT	WRONG HEX DATA FROM CONSOLE. ATTEMPT AGAIN.
3813	CHARACTER ENTERED	PRESS CONSOLE INTERRUPT KEY.
3814	ENTRY EXPECTED	ENTER EXPECTED DATA.
3815	NO MESSAGE	DCP RECEIVED WRONG SEQUENCE
3816	4978 KEYBOARD MESSAGE	PRESS A KEY TO ASSIGN 4978 KEYBOARD.

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MAP 0021-15

X Y Z A CONSOLE INPUT ENTRY

1 1 1 A

4 4 4 1 PAPER ONLY

4

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039

THE DATA LEDS EQUAL '380D'.  
NO INTERRUPT WAS RECEIVED  
FROM AN OIO INSTRUCTION TO  
A DEVICE.

GO TO MAP 0070,  
ENTRY POINT A.

040

THE DATA LEDS EQUAL '3802' OR  
'3803'.

'3802' IS A PROGRAM CHECK.  
'3803' IS A MACHINE CHECK.

GO TO MAP 3871,  
ENTRY POINT A.

041

'3801' IN THE DATA LEDS IS A  
POSSIBLE CONFIGURATION TABLE  
PROBLEM OR AN ALTERNATE CONSOLE  
PROBLEM.

GO TO MAP 0020, ENTRY POINT ID.

042

THE DATA LEDS EQUAL '382X' TO  
'386X'.

DO THE DATA LEDS EQUAL '3822'?

Y N

043

- SEE THE DATA LEDS.

DO THE DATA LEDS EQUAL '3820'?

Y N

1 1 1

8 7 7

A A A

C D E

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MAP 0021-16



A A            CONSOLE INPUT ENTRY  
D E  
1 1            PAPER ONLY  
6 6  
              PAGE 17 OF 68

| |  
| |  
| 044  
| THERE        ARE        CONFIGURATION  
| ERROR(S) ON THE SYSTEM.  
| GO TO MAP 3882, ENTRY POINT A.

| -----  
| IF THE OUTPUT DEVICE IS A:  
| DISPLAY WITH NO KEYBOARD:  
| PRINTER WITH NO KEYBOARD:  
| GO TO MAP 3881, ENTRY POINT A.

|  
045  
THE DATA LEDS EQUAL '3820',  
'FIRST CONFIGURATION'.

THE DISKETTE HAS NEVER BEEN  
CONFIGURED.  
GO TO MAP 3882, ENTRY POINT A.

| -----  
| IF THE OUTPUT DEVICE IS A:  
| DISPLAY WITH NO KEYBOARD:  
| PRINTER WITH NO KEYBOARD:  
| GO TO MAP 3881, ENTRY POINT A.

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A            CONSOLE INPUT ENTRY  
 C  
 1            PAPER ONLY  
 6  
             PAGE 18 OF 68

|  
 |  
 046  
 THE DATA LEDS EQUAL '3822'.  
 THERE ARE POSSIBLE CONFIGURATION  
 ERROR(S) ON THE SYSTEM.

THE OUTPUT MESSAGE IS:  
 -----

CONFIGURATION ERROR(S)  
 01=TERMINATE  
 02=DISPLAY ALL ERRORS  
 03=OPTION TABLE  
 04=BYPASS 2 CHANNEL SWITCH ERRORS

- SEE IF A TWO CHANNEL SWITCH  
 CARD IS INSTALLED AND ITS  
 CABLES CONNECTED TO THIS  
 PROCESSING UNIT BOARD.

IS THIS PROCESSING UNIT CONNECTED  
 TO A TWO CHANNEL SWITCH CARD?

Y N  
 |  
 | 047  
GO TO MAP 3882, ENTRY POINT A.
IF THE OUTPUT DEVICE IS A:
DISPLAY WITH NO KEYBOARD:
PRINTER WITH NO KEYBOARD:
GO TO MAP 3881, ENTRY POINT A.

048  
 - ENTER ON THE CONSOLE:  
 -----

(B) 1F (I)  
 (B) 0400 (I) (I)

GO TO PAGE 13, STEP 031,  
 ENTRY POINT DL.

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W            CONSOLE INPUT ENTRY  
1  
4            PAPER ONLY

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|  
|

049  
THE DATA LEDS EQUAL '3838'.

THE OUTPUT MESSAGE IS:  
-----  
RPQ ON SYSTEM.

THIS IS A NOTE TO YOU THAT AN RPQ  
IS INSTALLED ON THE SYSTEM.

THE 4978 RPQ DEVICE DIAGNOSTIC IS  
RUN IN AUTO MODE. ALL OTHER  
RPQ'S MUST BE RUN IN MANUAL MODE.  
TO TEST ALL RPQ'S, THE RPQ  
DIAGNOSTIC DISKETTE(S) MUST BE  
RUN IN MANUAL MODE AFTER THE AUTO  
RUN IS COMPLETE.

- SEE THE DISKETTE LABEL(S) FOR  
RPQ DIAGNOSTIC(S).

- ENTER ON THE CONSOLE:  
-----  
(B)    6        (I) (I)

GO TO PAGE 13, STEP 031,  
ENTRY POINT DL.

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T U            CONSOLE INPUT ENTRY  
1 1  
3 3            PAPER ONLY

MAP 0021-20

| |            PAGE 20 OF 68

| |  
| |  
| |  
| 050  
| THE DATA LEDS EQUAL '382A'.

THE OUTPUT MESSAGE IS:

| DISCONNECT        THE        CUSTOMER  
| INTERFACE.

| THE SERIES 1 CAN SUPPORT OTHER  
| EQUIPMENT        MANUFACTURE        AND  
| CUSTOMER INTERFACE DEVICE(S).  
| THE CUSTOMER MUST DISCONNECT  
| THE DEVICE(S).

- ENTER ON THE CONSOLE:

| (B)        6        (I) (I)  
| GO TO PAGE 13, STEP 031,  
| ENTRY POINT DL.

|  
051  
THE DATA LEDS EQUAL '3800'.

THE OUTPUT MESSAGE IS:  
-----

READY ENTER

THE DIAGNOSTIC CONTROL PROGRAM  
(DCP) IS LOADED.

IF THE CUSTOMER CANNOT:  
-----

1. 'AUTO IPL' THE PROCESSING UNIT.
2. 'IPL' THE PROCESSING UNIT.

- ANSWER THE FOLLOWING QUESTION  
'NO'.

IS THE CUSTOMER IPL CORRECT?

Y N  
| |  
| |  
| |  
| |

3 2  
1 1  
A A  
F G

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MAP 0021-20

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CONSOLE INPUT ENTRY

MAP 0021-21

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|  
|

052

THE DISKETTE UNIT AND DIAGNOSTIC DISKETTE HAVE BEEN USED TO IPL THE PROCESSING UNIT. THE REPORTED PROBLEM IS 'FAIL TO AUTO IPL' OR OR 'FAIL TO IPL'.

- SEE WHICH DEVICE WAS BEING USED AS THE 'IPL' DEVICE AT THE TIME OF THE CUSTOMER FAILURE.

IS THE CUSTOMER REPORTED PROBLEM 'FAIL TO AUTO IPL'?

Y N

|  
|

053

THE CUSTOMER REPORTED PROBLEM IS 'FAIL TO IPL'.

- SEE IF THE DISKETTE UNIT JUST USED BY YOU TO IPL THE DIAGNOSTIC DISKETTE IS THE SAME DISKETTE UNIT THE CUSTOMER IS HAVING THE IPL PROBLEM WITH.

IF THE CUSTOMER DID NOT USE A DISKETTE UNIT AS HIS IPL DEVICE,

- ANSWER THE FOLLOWING QUESTION 'NO'.

IS THE IPL UNIT USED BY YOU THE SAME IPL DISKETTE UNIT USED BY THE CUSTOMER?

Y N

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| |

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8 4 2  
A A A  
H J K

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MAP 0021-21

A CONSOLE INPUT ENTRY  
K  
2 PAPER ONLY  
1  
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054  
(ENTRY POINT IG)

THE IPL DEVICE USED BY THE  
CUSTOMER IS THE SUSPECTED IPL  
FAILING DEVICE.

- SEE IF THE CUSTOMER IS USING A  
COMMUNIAION ATTACHMENT TO IPL  
THE PROCESSING UNIT.

IS AN ATTACHMENT USED BY THE  
CUSTOMER TO IPL AS NOTED?

Y N

055

- SEE IF THE CUSTOMER IS USING  
A TTY ATTACHMENT TO IPL THE  
PROCESSING UNIT.

IS A TTY USED BY THE CUSTOMER  
TO IPL AS NOTED?

Y N

056

- SEE IF THE CUSTOMER IS  
USING A 4962 DISK TO IPL  
THE PROCESSING UNIT.

IS A 4962 DISK USED BY THE  
CUSTOMER TO IPL AS NOTED.

Y N

2 2 2 2  
4 4 4 3  
A A A A  
L M N P

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A           CONSOLE INPUT ENTRY  
P  
2           PAPER ONLY  
2  
            PAGE 23 OF 68

MAP 0021-23

|  
|  
057  
- SEE IF THE CUSTOMER IS USING A  
  33FD (ONE SIDE) DISKETTE TO IPL  
  THE PROCESSING UNIT.

IS THE DISKETTE USED BY THE  
CUSTOMER TO IPL A '33FD' (ONE  
SIDE) DISKETTE?

Y N  
|  
| 058  
| THE PROBLEM IS ' CAN NOT IPL'.  
|  
| - GO TO THE MAP PROLOG OF THE  
| SUSPECT DEVICE.

|  
| IF THE MAP FOR THE SUSPECT  
| DEVICE DOES NOT REPAIR THE  
| PROBLEM, USE THE IPL DEVICE  
| THAT IS FAILING AS THE 'FAILURE  
| INDICATION' AND:  
| GO TO MAP 0070, ENTRY POINT A.

|  
059  
THE DISKETTE USED BY THE CUSTOMER  
FOR IPL IS A '33FD' (ONE SIDE)  
DISKETTE. USE THIS AS THE  
DIAGNOSTIC DISKETTE.

- REMOVE THE DIAGNOSTIC DISKETTE.  
- INSERT THE 'CUSTOMER' 33FD (ONE  
  SIDE) DISKETTE.  
- ENSURE THE DISKETTE UNIT IS  
  READY.  
- PRESS THE LOAD KEY.  
GO TO MAP 0170, ENTRY POINT A.

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MAP 0021-23

A A A A      CONSOLE INPUT ENTRY  
J L M N  
2 2 2 2      PAPER ONLY  
1 2 2 2  
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MAP 0021-24

| | | |  
| | | |  
| | | 060  
| | | - SEE THE MLD BINDER.  
| | |  
| | | IF YOU HAVE THE '79XX'  
| | | MAP(S):  
| | | GO TO MAP 7970,  
| | | ENTRY POINT A.  
| | | -----  
| | | IF YOU HAVE THE '78XX'  
| | | MAP(S):  
| | | GO TO MAP 7870,  
| | | ENTRY POINT A.  
| | |  
| | | 061  
| | | GO TO MAP 4001,  
| | | ENTRY POINT A.  
| | |  
| | | 062  
| | | - GO TO THE IPL MAP FOR THE  
| | | COMMUNICATION ATTACHMENT.  
| | |

063  
THE DIAGNOSTIC DISKETTE CAN BE  
RUN ON THE SYSTEM, ON THE  
DISKETTE UNIT USED BY THE  
CUSTOMER.

- SEE THE MODE SWITCH ON THE BASIC CONSOLE.
- SEE IF THE SETTING IS THE SAME AS THE CUSTOMER USES.

IS THE MODE SWITCH IN THE SAME  
SETTING AS NOTED?

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

2 2  
7 5  
A A  
Q R

29JUL83      PN6060915  
ECA08003      PEC336711  
MAP 0021-24



A  
R  
2  
4

CONSOLE INPUT ENTRY

MAP 0021-25

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064

- SET THE MODE SWITCH TO THE SETTING USED BY THE CUSTOMER.
- PRESS THE LOAD KEY.

DOES THE DISKETTE UNIT IPL CORRECT?

Y N

065

- TEST THE 'MODE' SWITCH FOR CORRECT OPERATION.

```
+-----+
| PROCESS| GO TO MAP 107X, |
| UNIT IS| ENTRY POINT A. |
+-----+
| 4952  | 1071 |
| 4953  | 1071 |
| 4955  | 1071 |
| 495X  | 1072 |
+-----+
| IF TEST IS GOOD: GO TO |
| MAP 2070, ENTRY POINT PC|
+-----+
```

2  
6  
A  
S

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MAP 0021-25

A                    CONSOLE INPUT ENTRY  
S  
2                    PAPER ONLY  
5  
                    PAGE 26 OF 68

MAP 0021-26

|  
|  
066  
(ENTRY POINT DC)

THE CUSTOMER DISKETTE IS SUSPECT.

- REMOVE THE DIAGNOSTIC DISKETTE.
- INSERT THE 'CUSTOMER' DISKETTE.
- ENSURE THE DISKETTE UNIT IS READY.
- PRESS THE LOAD KEY.

THE 'CUSTOMER' DISKETTE WILL INDICATE A CORRECT IPL BY: 'XXXX' IN THE DATA LEDS.

- SEE THE CUSTOMER FOR THIS INFORMATION.

DID THE CUSTOMER DISKETTE IPL CORRECT?

Y N

|  
| 067  
| SEE IF THE CUSTOMER IS USING A  
| 33FD (ONE SIDE) DISKETTE TO IPL  
| THE PROCESSING UNIT.

|  
| IS THE DISKETTE USED BY THE  
| CUSTOMER FOR IPL A '33FD' (ONE  
| SIDE) DISKETTE?

| Y N

| |  
| | 068  
| | THE CUSTOMER DISKETTE IS  
| | SUSPECT.  
| | GO TO STEP 066,  
| | ENTRY POINT DC.

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

2 2  
7 7  
A A  
T U

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MAP 0021-26

A A A            CONSOLE INPUT ENTRY  
Q T U  
2 2 2            PAPER ONLY  
4 6 6  
PAGE 27 OF 68

MAP 0021-27

| | |  
| | |  
| | 069  
| | THE DISKETTE USED BY THE  
| | CUSTOMER FOR IPL IS A '33FD'  
| | (ONE SIDE) DISKETTE. USE  
| | THIS AS THE DIAGNOSTIC  
| | DISKETTE.  
| |  
| | - REMOVE THE DIAGNOSTIC  
| | DISKETTE.  
| | - INSERT THE 'CUSTOMER' 33FD  
| | (ONE SIDE) DISKETTE.  
| | - ENSURE THE DISKETTE UNIT IS  
| | READY.  
| | - PRESS THE LOAD KEY.  
| | GO TO MAP 0170,  
| | ENTRY POINT A.  
| |  
| | 070  
| | THE CUSTOMER DISKETTE IS GOOD.  
| | - VERIFY THE REPAIR  
| |  
071  
THE CUSTOMER DISKETTE IS SUSPECT.  
GO TO PAGE 26, STEP 066,  
ENTRY POINT DC.

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MAP 0021-27

A            CONSOLE INPUT ENTRY  
H  
2            PAPER ONLY  
1            PAGE 28 OF 68

|  
|  
|  
072

- SEE IF THE DISKETTE UNIT JUST  
USED BY YOU TO IPL THE  
DIAGNOSTIC DISKETTE IS THE SAME  
DISKETTE UNIT THE CUSTOMER IS  
HAVING THE IPL PROBLEM WITH.

IF THE CUSTOMER DOES NOT USE A  
DISKETTE UNIT AS HIS IPL DEVICE,  
- ANSWER THE FOLLOWING QUESTION  
'NO'.

IS THE IPL DEVICE USED BY YOU THE  
SAME ONE USED BY THE CUSTOMER?  
Y N

|  
| 073  
| - SET THE MODE SWITCH TO 'AUTO  
| IPL'.  
| - POWER OFF THE SYSTEM.  
| - POWER ON THE SYSTEM.  
| - WAIT 30 SECONDS.

| IS THE DISKETTE UNIT IPL  
| CORRECT?

| Y N  

2 2 2  
9 9 9  
A A A  
V W X

A A A            CONSOLE INPUT ENTRY  
V W X  
2 2 2            PAPER ONLY  
8 8 8  
PAGE 29 OF 68

MAP 0021-29

074

- TEST THE MODE SWITCH FOR  
CORRECT OPERATION.

-----+  
| PROCESS| GO TO MAP 107X, |  
| UNIT IS| ENTRY POINT A. |  
-----+

4952	1071
4953	1071
4955	1071
495X	1072

-----+  
| IF TEST IS GOOD: GO TO |  
| MAP 2070, ENTRY POINT PC|  
-----+

075

THE IPL DEVICE USED BY THE  
CUSTOMER IS THE SUSPECTED IPL  
FAILING DEVICE.  
GO TO PAGE 22, STEP 054,  
ENTRY POINT IG.

076

- POWER OFF THE SYSTEM.  
- SET THE MODE SWITCH TO THE  
'AUTO IPL' SETTING.  
- POWER ON THE SYSTEM.

IS THE DISKETTE UNIT IPL CORRECT?

Y N

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

3 3  
0 0  
A A  
Y Z

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MAP 0021-29

A A            CONSOLE INPUT ENTRY  
Y Z  
2 2            PAPER ONLY  
9 9  
              PAGE 30 OF 68

MAP 0021-30

| |  
| |  
| 077  
| - TEST THE 'MODE' SWITCH FOR  
| CORRECT OPERATION.

| +-----+  
| |PROCESS| GO TO MAP 107X, |  
| |UNIT IS| ENTRY POINT A. |  
| +-----+  
	4952	1071
	4953	1071
	4955	1071
	495X	1072
+-----+		
	IF TEST IS GOOD: GO TO	
	MAP 2070, ENTRY POINT PC	
+-----+		

078  
THE DIAGNOSTIC DISKETTE CAN BE  
RUN ON THE SYSTEM, WITH MODE  
SWITCH IN 'AUTO IPL' SETTING.  
THE CUSTOMER DISKETTE IS SUSPECT.

- SET THE MODE SWITCH TO  
'DIAGNOSTIC'.  
GO TO PAGE 26, STEP 066,  
ENTRY POINT DC.

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MAP 0021-30

A            CONSOLE INPUT ENTRY  
F  
2            PAPER ONLY  
0  
            PAGE 31 OF 68

MAP 0021-31

|  
|  
079

+-----+  
| READ THE NOTE CAREFULLY. DO |  
| NOT GO ON UNLESS UNDERSTOOD |  
+-----+

\*\*\*\*\* NOTE \*\*\*\*\*

WHEN A DIAGNOSTIC IS RUNNING, USE THE 'PROBLEM' REPORT FROM THE CUSTOMER AND OBSERVE THE DEVICE FOR CORRECT OPERATION. AFTER OBSERVING THE OPERATION, ANSWER ANY QUESTION ON 'ERROR INDICATIONS' OR ERROR MESSAGE(S).

THE DIAGNOSTIC(S) MAY BE RUN FIRST IN 'AUTO' MODE, USING THE ADDRESS(ES) AND DEVICE(S) INSTALLED ON THE SYSTEM. TO RUN THE DIAGNOSTIC(S) IN 'AUTO' MODE, ANSWER THE FOLLOWING QUESTION 'YES'.

IF YOU KNOW THAT AN ATTACHMENT OR DEVICE IS FAILING, THE ATTACHMENT/DEVICE DIAGNOSTIC CAN BE RUN IN 'MANUAL' MODE. TO RUN THE DIAGNOSTIC(S) IN 'MANUAL' MODE, ANSWER THE FOLLOWING QUESTION 'NO'.

DO YOU WANT AN 'AUTO' MODE OF OPERATION?

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

4 3  
4 2  
B B  
A B

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MAP 0021-31

B                    CONSOLE INPUT ENTRY  
B  
3                    PAPER ONLY  
1  
                    PAGE 32 OF 68

MAP 0021-32

080  
MANUAL MODE:  
-----

- SEE IF AN ATTACHMENT, DEVICE,  
PROCESSING UNIT OR STORAGE IS  
SUSPECT.

ARE ANY SUSPECT AS NOTED ABOVE TO  
BE TESTED?

Y N

081

- SEE IF AN RPQ IS INSTALLED.

IS THERE AN RPQ INSTALLED?

Y N

082

YOU WANT TO RUN AN ATTACHMENT  
OR DEVICE IN MANUAL MODE.

- GO TO THE MAP PROLOG OF THE  
ATTACHMENT/DEVICE.

- READ SECTION 0.0 OF THE  
PROLOG.

GO TO PAGE 33, STEP 086,  
ENTRY POINT MM.

083

- GO TO THE MAP PROLOG OF THE  
RPQ ATTACHMENT/DEVICE.

- READ SECTION 0.0 OF THE  
PROLOG.

GO TO PAGE 33, STEP 086,  
ENTRY POINT MM.

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MAP 0021-32

3  
3  
B  
C



B            CONSOLE INPUT ENTRY  
C  
3            PAPER ONLY  
2  
            PAGE 33 OF 68

MAP 0021-33

|  
|  
084  
THERE IS A SUSPECT ATTACHMENT,  
DEVICE, PROCESSING UNIT OR  
STORAGE YOU WANT TO TEST.

- GO TO THE MAP PROLOG OF THE  
SUSPECT ATTACHMENT/DEVICE.
- READ SECTION 0.0 OF THE PROLOG.

DID YOU READ SECTION 0.0 OF THE  
MAP PROLOG?

Y N

|  
| 085  
| - READ SECTION 0.0 OF THE MAP  
| PROLOG.  
| GO TO STEP 086,  
| ENTRY POINT MM.

086  
(ENTRY POINT MM)

- SEE THE DISKETTE LABELS WITH  
THIS PROCESSING UNIT OR MAP  
0005 FOR A LIST OF THE PROGRAMS  
ON THE DISKETTE.
- ENSURE THE CORRECT DISKETTE IS  
INSTALLED IN THE IPL DISKETTE  
UNIT.
- ENSURE THE DISKETTE UNIT IS  
READY.

IS THE DISKETTE UNIT READY?

Y N

|  
| 087  
| - ENSURE THE DISKETTE UNIT IS  
| READY.  
| - CONTINUE ON THE YES LEG.

|  
|  
|  
|  
|

3  
4  
B  
D

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ECA08003     PEC336711

MAP 0021-33

B  
D  
3  
3

CONSOLE INPUT ENTRY

MAP 0021-34

PAPER ONLY

PAGE 34 OF 68

|  
|

088

- ENTER ON THE CONSOLE:

```

-----
(B)   B       (I)
(B) XXXX     (I) (I)
      XXXX =  MAP NUMBER.

```

LISTEN FOR THE 'AUDIBLE DEVICE'  
WHEN THE KEYS ARE PRESSED.

IF MORE THAN ONE ATTACHMENT OR  
DEVICE IS INSTALLED, YOU MAY HAVE  
TO USE COMMAND 'C' TO RUN THE  
MANUAL MAP TO ALL ATTACHMENTS OR  
DEVICES, BY ADDRESS. SEE MAP  
0010, 04.01.00.

- ENTER MAP NUMBER AS FOLLOWS:

```

-----
(B)   C       (I)
(B) XXXX     (I) (I)
      XXXX =  MAP NUMBER.

```

WHEN DATA LEDS EQUAL 3C00:

- ENTER OPTION BIT AS FOLLOWS:

```

-----
(B)   D       (I)
(B) 4000     (I) (I)
      4000 =  OPTION BIT ONE ON
              (REQUEST ADDRESS)

```

WHEN DATA LEDS EQUAL 3CXX:

- ENTER THE COMMAND AS FOLLOWS:

```

-----
(B)   A       (I) (I)
      A =  START

```

WHEN DATA LEDS EQUAL 3C01:

- ENTER THE ADDRESS AS FOLLOWS:

```

-----
(B)   1F      (I)
(B) XX00     (I) (I)
      XX =  DEVICE ADDRESS

```

CAN YOU MAKE THE CORRECT CONSOLE  
ENTRY?

Y N  
| |  
| |  
| |

3 3  
5 5  
B B  
E F

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MAP 0021-34

B B            CONSOLE INPUT ENTRY  
E F  
3 3            PAPER ONLY  
4 4  
  
              PAGE 35 OF 68

MAP 0021-35

| |  
| |  
| 089  
| - TEST THE KEY FOR CORRECT  
| OPERATION.

| +-----+  
	PROCESS	GO TO MAP 107X,
	UNIT IS	ENTRY POINT A.
	-----+-----	
	4952	1071
	4953	1071
	4955	1071
	495X	1072
	-----+-----	
	IF TEST IS GOOD: GO TO	
	MAP 2070, ENTRY POINT PC	
+-----+		

090  
- SEE IF A PROGRAMMER OR C E  
CONSOLE IS THE OUTPUT DEVICE.

IS A PROGRAMMER OR C E CONSOLE  
THE OUTPUT DEVICE?

Y N

| |  
| 091  
| A PRINTER OR DISPLAY WITHOUT A  
| KEYBOARD IS THE OUTPUT DEVICE.  
| GO TO MAP 0022, ENTRY POINT PA.

092  
- WAIT FOR THE ATTACHMENT OR  
DEVICE MAP TO RUN.  
- SEE THE DATA LEDS.

DO THE DATA LEDS EQUAL '3800' OR  
'3805'?

Y N

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

3 3  
9 6  
B B  
G H

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MAP 0021-35

B            CONSOLE INPUT ENTRY  
H  
3            PAPER ONLY  
5  
            PAGE 36 OF 68

MAP 0021-36

|  
|  
093  
(ENTRY POINT EB)

THE DATA LEDS DO NOT EQUAL '3800'  
OR '3805'. THE DATA LEDS EQUAL  
THE MAP NUMBER. AS EACH KEY IS  
PRESSED IN THE FOLLOWING STEPS,  
ENSURE THE KEY IS WORKING.  
LISTEN FOR THE AUDIBLE DEVICE  
WHEN THE KEYS ARE PRESSED.

- PRESS THE STOP KEY.
- DISPLAY LEVEL THREE (3).
- PRESS THE REGISTER ZERO (0)  
KEY.
- RECORD THE REGISTER CONTENTS.
- PRESS THE REGISTER ONE (1) KEY.
- RECORD THE REGISTER CONTENTS.
- PRESS THE REGISTER TWO (2) KEY.
- RECORD THE REGISTER CONTENTS.
- PRESS THE REGISTER THREE (3)  
KEY.
- RECORD THE REGISTER CONTENTS.

CONTENTS R0 - STEP NUMBER.  
GO TO THE STEP NUMBER INDICATED  
BY REGISTER ZERO (0).  
CONTENTS R1 - AATT.  
AA IS THE DEVICE ADDRESS.  
TT IS THE DEVICE TYPE.  
CONTENTS R2 - UNIT ADDRESS, IF  
ANY.  
CONTENTS R3 - ADDRESS OF MORE  
INFORMATION.

DID THE CONSOLE KEYS WORK AS  
NOTED ABOVE?

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

3 3  
7 7  
B B  
J K

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ECA08003      PEC336711

MAP 0021-36

B B            CONSOLE INPUT ENTRY  
J K  
3 3            PAPER ONLY  
6 6  
              PAGE 37 OF 68

MAP 0021-37

```
| |
| |
| 094
| - TEST       KEY       FOR       CORRECT
|   OPERATION.
| +-----+
| |PROCESS| GO TO MAP 107X, |
| |UNIT IS| ENTRY POINT A. |
| |-----+-----|
| | 4952  |           1071  |
| | 4953  |           1071  |
| | 4955  |           1071  |
| | 495X  |           1072  |
| |-----+-----|
| | IF TEST IS GOOD: GO TO
| | MAP 2070, ENTRY POINT PC|
| +-----+
|
```

095  
- LISTEN FOR THE AUDIBLE DEVICE.  
- PRESS THE START KEY.  
- PRESS THE DATA BUFFER KEY.  
- PRESS THE SIX (6) KEY.  
- PRESS THE INTERRUPT KEY.  
- PRESS THE INTERRUPT KEY.

DID THE CONSOLE KEYS WORK?

Y N

```
| |
| 096
| - TEST       KEY       FOR       CORRECT
|   OPERATION.
| +-----+
| |PROCESS| GO TO MAP 107X, |
| |UNIT IS| ENTRY POINT A. |
| |-----+-----|
| | 4952  |           1071  |
| | 4953  |           1071  |
| | 4955  |           1071  |
| | 495X  |           1072  |
| |-----+-----|
| | IF TEST IS GOOD: GO TO
| | MAP 2070, ENTRY POINT PC|
| +-----+
|
```

3  
8  
B  
L

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MAP 0021-37

B CONSOLE INPUT ENTRY  
L  
3 PAPER ONLY  
7  
PAGE 38 OF 68

|  
|  
097  
(ENTRY POINT EM)

- FOLLOW THE INSTRUCTIONS IN THE MAP AND STEP NUMBER THAT FAILED.
- SEE IF THE DATA LEDS = 3800 OR 3805.

DO THE DATA LEDS = 3800 OR 3805?  
Y N

|  
| 098  
| GO TO PAGE 36, STEP 093,  
| ENTRY POINT EB.

|  
099  
IF THE INSTRUCTION IN THE MAP STEP IS TO BEGIN A MAP:  
- PRESS THE DATA BUFFER KEY.  
- PRESS THE B KEY.  
- PRESS THE INTERRUPT KEY.  
- PRESS THE DATA BUFFER KEY.  
- PRESS THE X KEY.  
- PRESS THE X KEY.  
- PRESS THE X KEY.  
- PRESS THE X KEY.  
(XXXX = MAP SELECTED)

- PRESS THE INTERRUPT KEY.
- PRESS THE INTERRUPT KEY.

IS THE SYSTEM REPAIRED?  
Y N

|  
| 100  
| - SEE IF THERE IS A PROBLEM ON  
| THE SYSTEM.

|  
| IS THERE A PROBLEM AS NOTED?  
| Y N  

3 3 3  
9 9 9  
B B B  
M N P

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B B B B      CONSOLE INPUT ENTRY  
G M N P  
3 3 3 3      PAPER ONLY  
5 8 8 8

MAP 0021-39

PAGE 39 OF 68

| | | |  
| | | |  
| | | 101  
| | | GO TO PAGE 40,  
| | | STEP 109,  
| | | ENTRY POINT PM.

| | |  
| | 102  
| | GO TO MAP 0070,  
| | ENTRY POINT A.

| |  
| 103  
| - VERIFY THE REPAIR

|  
104  
THE ATTACHMENT OR DEVICE  
DIAGNOSTIC(S) RAN WITHOUT ERROR.

- SEE THE ATTACHMENT OR DEVICE  
PROLOG, SECTION 0.0.  
- SEE IF ALL THE MAP(S) ARE RUN.

ARE ALL THE MAP(S) FROM THE  
PROLOG RUN?

Y N

|  
| 105  
| - SEE WHICH MAP(S) HAVE TO BE  
| RUN FOR A COMPLETE TEST OF  
| THE ATTACHMENT OR DEVICE.  
| GO TO PAGE 33, STEP 086,  
| ENTRY POINT MM.

|  
106  
- SEE IF THE DIAGNOSTICS HAVE  
BEEN RUN IN 'AUTO' MODE.

HAVE THE DIAGNOSTICS BEEN RUN IN  
'AUTO' MODE?

Y N

|  
| 107  
| GO TO PAGE 44, STEP 121,  
| ENTRY POINT AM.

|  
|

4  
0  
B  
Q

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MAP 0021-39

B                    CONSOLE INPUT ENTRY  
Q  
3                    PAPER ONLY  
9  
                    PAGE 40 OF 68

MAP 0021-40

|  
|  
108  
THE ATTACHMENT OR DEVICE CAN BE  
FAILING INTERMITTENTLY. LOOP THE  
DIAGNOSTIC(S) FOR THE SUSPECT  
DEVICE.

DO YOU WANT TO LOOP A DIAGNOSTIC  
FOR THIS DEVICE?

Y N

|  
| 109  
| (ENTRY POINT PM)

| - SEE THE ATTACHMENT OR DEVICE  
| PROLOG FOR ANY 'PAPER' ONLY  
| MAP.

| THE PAPER MAP(S) NUMBER IS  
| 'XX70' OR 'XX80'. SEE IF THE  
| 'XX70' OR 'XX80' MAP(S) DO ANY  
| PROBLEM ANALYSIS.

| DO 'XX70' OR 'XX80' MAP(S) FOR  
| THIS ATTACHMENT/ DEVICE DO ANY  
| PROBLEM ANALYSIS?

| Y N

|  
| 110  
| GO TO PAGE 66, STEP 175,  
| ENTRY POINT ST.

| 111  
| - FOLLOW THE INSTRUCTION IN THE  
| 'PAPER' ONLY MAP.

| DOES THE 'PAPER' ONLY MAP  
| INDICATE A FAILURE?

| Y N

|  
| 112  
| GO TO PAGE 66, STEP 175,  
| ENTRY POINT ST.

|  
|

4 4  
2 1  
B B  
R S

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MAP 0021-40



B                   CONSOLE INPUT ENTRY

MAP 0021-41

S  
4                   PAPER ONLY

0                   PAGE 41 OF 68

|  
|

113  
- SEE IF THE 'PAPER' ONLY MAP  
  REPAIRED THE FAILURE.

DID THE 'PAPER' ONLY MAP REPAIR  
THE FAILURE?

Y N

|

| 114  
| GO TO MAP 0070, ENTRY POINT A.

|

115  
- VERIFY THE REPAIR

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MAP 0021-41

B  
R  
4  
0

CONSOLE INPUT ENTRY

MAP 0021-42

PAPER ONLY

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116

- SELECT ATTACHMENT/DEVICE TO LOOP ON FROM TABLE BELOW.

ENTER ATTACHMENT/DEVICE  XXXX	DIAGNOSTIC:  -----	DISKETTE  PART NO.
2000	PROCESSOR, STORAGE	1635001*
3D00	FLOATING POINT	1635001*
3E00	TWO CHANNEL SWITCH	1635001*
4000	TTY ATTACHMENT	1635278
4100	SERIES 1 RING	4499029
4400	4979 DISPLAY	1635278
4500	4978 DISPLAY	1635278
4800	4964 DISKETTE	1635278
4A00	4966 DISKETTE	6838000
4B00	4965 495XC DSKETTE	8529126
4D00	4965D 4952/4/6D DISKETTE	6235385
5000	TIMER	1635001*
5800	4969 MAGNETIC TAPE	6838871
5900	4968 MAGNETIC TAPE	6235256
6400	4974 PRINTER	1635278
6800	4973 PRINTER	1635278
6A00	5200 PRINTERS	7839056
7800	4962 DISK	1635278
7A00	4963 DISK	6826999
7B00	4967 DISK	4750154
7C00	4965D 4952/4/6D DISK	6235385
8100	3101 DISPLAY	1635001*

ENTER ATTACHMENT/DEVICE  XXXX	DIAGNOSTIC:  -----	DISKETTE  PART NO
A000	INTEGRATED DI/DO	1635002
A300	NON IBM EQUIPMENT	1635002
A400	4982 SIO	1635279
A800	ANALOG IN	1635279
A900	ANALOG OUT	1635279
B000	DIGITAL IN	1635279
B400	DIGITAL OUT	1635279
D800	370 CHANNEL ATTACH	1635001*
E000	4987 TP ATTACHMENT	4414981
E100	4987 TP FEATURE	4414981
E400	5251/5291 DISPLAY	1635002
E600	1310 MULTIFUNCTION	6031186
E800	ACCA SL	1635002
E900	ACCA ML	1635002
EA00	FPMLC	1635002
EB00	TELEPHONE COMMUNIC	4468533
F000	BSCA SL	1635002
F100	BSCA ML	1635002
F800	SDLC	1635002
F900	MULTIDROP WORK ST	8692599
FC00	SYNC. COMM. HI SP.	4499015
RPQ	SEE THE RPQ PROLOG	RPQ
	SECTION 0.0	RPQ
XXXX	NEW FEATURES	XXXXXXXX
	SEE PROLOG	

\* IPL THIS DISKETTE ONLY.

DID YOU SELECT THE ATTACHMENT/DEVICE?

Y N  
| |  
| |  
| |  
| |

4 4  
3 3  
B B  
T U

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MAP 0021-42

B B            CONSOLE INPUT ENTRY  
T U  
4 4            PAPER ONLY  
2 2  
  
              PAGE 43 OF 68

MAP 0021-43

| |  
| |  
| 117  
| - SELECT THE ATTACHMENT/DEVICE  
| AND CONTINUE ON THE YES LEG.  
|

118  
TO LOOP ON A MAP:

- ENTER ON THE CONSOLE:

-----  
(D)    C            (I) (I)  
(D) XXXX            (I) (I)  
(D)    1D            (I)  
(D) 0080            (I) (I)  
(D)    A            (I) (I)  
      XXXX = DIAGNOSTIC TO LOOP

THE XXXX DIAGNOSTIC IS LOOPING.  
IF A FAILURE OCCURS, THE ERROR  
MESSAGE IS IN THE DATA LEDS, AND  
THE DIAGNOSTIC STOPS.

IS ERROR MESSAGE IN DATA LEDS?

Y N

|  
| 119  
| CONTINUE TO LOOP UNTIL THE  
| TESTING IS COMPLETE. TO STOP  
| THE LOOP:  
|

- ENTER ON THE CONSOLE:

-----  
(D)    9            (I) (I)

| IF THERE IS NO PROBLEM,  
| GO TO PAGE 40, STEP 109,  
| ENTRY POINT PM.  
|

120  
GO TO PAGE 38, STEP 097,  
ENTRY POINT EM.

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MAP 0021-43

B CONSOLE INPUT ENTRY  
A  
3 PAPER ONLY  
1  
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|  
|  
121  
(ENTRY POINT AM)

AUTO MODE:  
-----

RPQ DEVICE(S) ARE NOT TESTED IN 'AUTO' MODE. THE 4978 DISPLAY RPQ IS TESTED IN 'AUTO' MODE, BECAUSE IT CAN BE USED AS AN ALTERNATE CONSOLE.

THE 4978 RPQ DEVICE DIAGNOSTIC IS RUN IN AUTO MODE. ALL OTHER RPQ'S MUST BE RUN IN MANUAL MODE. TO TEST ALL RPQ'S, THE RPQ DIAGNOSTIC DISKETTE(S) MUST BE RUN IN MANUAL MODE AFTER THE AUTO RUN IS COMPLETE.

- SEE THE DISKETTE LABEL(S) FOR RPQ DIAGNOSTIC(S).
- RUN THE DIAGNOSTIC(S) IN AUTO MODE AS FOLLOWS:

- ENTER ON THE CONSOLE:  
-----

(B) 2 (I) (I)  
(B) A (I) (I)

- LISTEN FOR THE AUDIBLE DEVICE WHEN KEYS ARE PRESSED.

WAS THE CONSOLE ENTRY CORRECT?

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

4 4  
6 5  
B B  
V W

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MAP 0021-44

B  
W  
4  
4

CONSOLE INPUT ENTRY

MAP 0021-45

PAPER ONLY

PAGE 45 OF 68

|  
|

122

- TEST THE KEY FOR CORRECT  
OPERATION.

```
+-----+
|PROCESS| GO TO MAP 107X, |
|UNIT IS| ENTRY POINT A. |
+-----+
| 4952 | 1071 |
| 4953 | 1071 |
| 4955 | 1071 |
| 495X | 1072 |
+-----+
| IF TEST IS GOOD: GO TO |
| MAP 2070, ENTRY POINT PC |
+-----+
```

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MAP 0021-45

B  
V  
4  
4

CONSOLE INPUT ENTRY

MAP 0021-46

PAPER ONLY

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|  
|

123

(ENTRY POINT VL)

- IN THE TABLE BELOW, CIRCLE THE ATTACHMENTS AND DEVICES INSTALLED ON THE SYSTEM.

ENTER ATTACHMENT/DEVICE	DISKETTE
XXXX	DIAGNOSTIC: PART NO.
2000	PROCESSOR, STORAGE  1635001*
3D00	FLOATING POINT  1635001*
3E00	TWO CHANNEL SWITCH  1635001*
4000	TTY ATTACHMENT  1635278
4100	SERIES 1 RING  4499029
4400	4979 DISPLAY  1635278
4500	4978 DISPLAY  1635278
4800	4964 DISKETTE  1635278
4A00	4966 DISKETTE  6838000
4B00	4965 495XC DSKETTE  8529126
4D00	4965D 4952/4/6D
	DISKETTE  6235385
5000	TIMER  1635001*
5800	4969 MAGNETIC TAPE  6838871
5900	4968 MAGNETIC TAPE  6235256
6400	4974 PRINTER  1635278
6800	4973 PRINTER  1635278
6A00	5200 PRINTERS  7839056
7800	4962 DISK  1635278
7A00	4963 DISK  6826999
7B00	4967 DISK  4750154
7C00	4965D 4952/4/6D
	DISK  6235385
8100	3101 DISPLAY  1635001*

ENTER ATTACHMENT/DEVICE	DISKETTE
XXXX	DIAGNOSTIC: PART NO
A000	INTEGRATED DI/DO  1635002
A300	NON IBM EQUIPMENT  1635002
A400	4982 SIO  1635279
A800	ANALOG IN  1635279
A900	ANALOG OUT  1635279
B000	DIGITAL IN  1635279
B400	DIGITAL OUT  1635279
D800	370 CHANNEL ATTACH  1635001*
E000	4987 TP ATTACHMENT  4414981
E100	4987 TP FEATURE  4414981
E400	5251/5291 DISPLAY  1635002
E600	1310 MULTIFUNCTION  6031186
E800	ACCA SL  1635002
E900	ACCA ML  1635002
EA00	FPMLC  1635002
EB00	TELEPHONE COMMUNIC  4468533
F000	BSCA SL  1635002
F100	BSCA ML  1635002
F800	SDLC  1635002
F900	MULTIDROP WORK ST  8692599
FC00	SYNC. COMM. HI SP.  4499015
RPQ	SEE THE RPQ PROLOG   RPQ
	SECTION 0.0   RPQ
XXXX	NEW FEATURES  XXXXXXXX
	SEE PROLOG

\* IPL THIS DISKETTE ONLY.

(STEP 123 CONTINUES)

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MAP 0021-46

PAPER ONLY

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(STEP 123 CONTINUED)

ARE THE ATTACHMENTS AND DEVICES CIRCLED?

Y N

|

| 124

| - CIRCLE THE ATTACHMENTS AND DEVICES AND CONTINUE ON THE YES LEG.

|

125

AS SEEN BY THE CIRCLES ENTERED IN THE TABLE, DIAGNOSTICS RUN IN SEQUENCE BY TYPE AND ADDRESS. THE DATA LEDS DISPLAY EACH MAP NUMBER AS IT IS LOADED AND REMAINS THE SAME UNTIL A NEW MAP IS LOADED. NOTE EACH MAP AS IT LOADS TO ENSURE THE CORRECT DIAGNOSTIC IS RUNNING ON A DEVICE. IF THE MAP IS IN A LOOP, THE MAP NUMBER REMAINS IN THE LEDS. TIME FOR AN AUTO RUN VARIES.

- SEE IF A PROGRAMMER OR C E CONSOLE IS THE OUTPUT DEVICE.

IS A PROGRAMMER/CE CONSOLE THE OUTPUT DEVICE?

Y N

|

| 126

| A PRINTER OR DISPLAY WITHOUT A KEYBOARD IS THE OUTPUT DEVICE. GO TO MAP 0022, ENTRY POINT A.

|

|

|

|

|

|

|

|

|

4  
8  
B  
X





C  
B  
4  
8

CONSOLE INPUT ENTRY

MAP 0021-49

PAPER ONLY

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|  
|

130

IF A PROGRAM IS IN A LOOP, THERE IS NO WAY TO KNOW THIS EXCEPT BY THE TIME NEEDED TO RUN THE DIAGNOSTIC(S).

THE PROCESSING UNIT MAPS (2XXX) RUN TIME IS NOT KNOWN. THE MAPS WILL RUN ALL STORAGE INSTALLED. THERE IS NO TIME THIS MAP CAN GIVE TO RUN THE PROCESSING UNIT MAPS. IT WILL DEPEND ON THE STORAGE SIZE INSTALLED. IF THE PROCESSING UNIT MAP (2XXX) DOES NOT STOP IN MORE THAN FIFTEEN (15) MINUTES, SUSPECT THAT THE PROCESSING UNIT MAP (2XXX) IS IN A LOOP.

IF A DEVICE OR ATTACHMENT MAP DOES NOT STOP IN MORE THAN FIFTEEN (15) MINUTES, SUSPECT THAT THE ATTACHMENT OR DEVICE MAP IS IN A LOOP.

- SEE THE RUN LED.

IS THE RUN LED ON AFTER FIFTEEN (15) MINUTES?

Y N

| |  
| |  
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| |  
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| |

5 5  
4 0  
C C  
C D

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MAP 0021-49

C                    CONSOLE INPUT ENTRY  
D  
4                    PAPER ONLY  
9  
                    PAGE 50 OF 68

MAP 0021-50

|  
|  
131  
(ENTRY POINT EA)

THE DATA LEDS EQUAL THE MAP  
NUMBER ERROR STEP. LISTEN FOR  
THE AUDIBLE DEVICE WHEN THE KEYS  
ARE PRESSED.

- PRESS THE STOP KEY.
- DISPLAY LEVEL THREE (3).
- PRESS THE REGISTER ZERO (0)  
KEY.
- RECORD THE REGISTER CONTENTS.
- PRESS THE REGISTER ONE (1) KEY.
- RECORD THE REGISTER CONTENTS.
- PRESS THE REGISTER TWO (2) KEY.
- RECORD THE REGISTER CONTENTS.
- PRESS THE REGISTER THREE (3)  
KEY.
- RECORD THE REGISTER CONTENTS.
- PRESS THE START KEY.
- PRESS THE DATA BUFFER KEY.
- PRESS THE SIX (6) KEY.
- PRESS THE INTERRUPT KEY.
- PRESS THE INTERRUPT KEY.

CONTENTS R0 - STEP NUMBER.  
GO TO THE STEP NUMBER INDICATED  
BY REGISTER ZERO (0).  
CONTENTS R1 - AATT.  
AA IS THE DEVICE ADDRESS.  
TT IS THE DEVICE TYPE.  
CONTENTS R2 - UNIT ADDRESS, IF  
ANY.  
CONTENTS R3 - ADDRESS OF MORE  
INFORMATION.

DID THE KEYS WORK CORRECT?

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

5 5  
1 1  
C C  
E F

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MAP 0021-50

C C            CONSOLE INPUT ENTRY  
E F  
5 5            PAPER ONLY  
0 0  
  
PAGE 51 OF 68

MAP 0021-51

| |  
| |  
| 132  
| - TEST THE KEY FOR CORRECT  
| OPERATION.

```
| +-----+  
| |PROCESS| GO TO MAP 107X,  
| |UNIT IS| ENTRY POINT A.  
| +-----+  
| | 4952 |        1071  
| | 4953 |        1071  
| | 4955 |        1071  
| | 495X |        1072  
| +-----+  
| | IF TEST IS GOOD: GO TO  
| | MAP 2070, ENTRY POINT PC  
| +-----+
```

133  
THE MAP NUMBER MUST BE '3D00' OR  
MORE.  
THE REGISTERS MUST CONTAIN  
CORRECT INFORMATION FOR THE  
ATTACHMENT, DEVICE OR PROCESSING  
UNIT THAT WAS BEING TESTED.

IF THE MAP NUMBER IS '2XXX',  
ANSWER THE QUESTION 'NO'.

IS ALL THIS INFORMATION CORRECT?  
Y N

| 134  
| - SEE IF THE MAP NUMBER FROM  
| THE DATA LEADS IS '2XXX'.  
|  
| IS THE MAP NUMBER FROM THE DATA  
| LEADS '2XXX'?  
| Y N

| |  
| | 135  
| | GO TO PAGE 54, STEP 142,  
| | ENTRY POINT LP.

5 5  
2 2  
C C  
G H

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MAP 0021-51



C CONSOLE INPUT ENTRY

MAP 0021-53

J  
5 PAPER ONLY

2  
PAGE 53 OF 68

|  
|  
139

IF THE INSTRUCTION IN THE MAP  
STEP IS TO BEGIN A MAP:

- PRESS THE DATA BUFFER KEY.
- PRESS THE 3 KEY.
- PRESS THE INTERRUPT KEY.
- PRESS THE INTERRUPT KEY.  
(MANUAL MODE SELECTED)

- PRESS THE DATA BUFFER KEY.
- PRESS THE B KEY.
- PRESS THE INTERRUPT KEY.
- PRESS THE DATA BUFFER KEY.
- PRESS THE X KEY.
- PRESS THE X KEY.
- PRESS THE X KEY.
- PRESS THE X KEY.  
(XXXX = MAP SELECTED)

- PRESS THE INTERRUPT KEY.
- PRESS THE INTERRUPT KEY.

IS THE SYSTEM REPAIRED AFTER  
FOLLOWING THE INSTRUCTIONS IN THE  
MAP?

Y N

|  
| 140  
| GO TO MAP 0070, ENTRY POINT A.

|  
141  
- VERIFY THE REPAIR.

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MAP 0021-53





C C            CONSOLE INPUT ENTRY  
M N  
5 5            PAPER ONLY  
5 5  
              PAGE 56 OF 68

MAP 0021-56

| |  
| |  
| 144  
| 'YYYY' DOES NOT EQUAL '2XXX'.  
| THIS IS A POSSIBLE ATTACHMENT,  
| DEVICE OR CHANNEL PROBLEM.

- | - GO TO THE MAP AND STEP NUMBER  
| INDICATED.
- | - USE THE DEVICE ADDRESS  
| INDICATED, IF INSTALLED.

| THIS IS THE 'SUSPECT ATTACHMENT  
| CARD'.

- | - POWER OFF THE SYSTEM.
- | - SEE THE 'SUSPECT ATTACHMENT  
| CARD'.
- | - EXCHANGE THE 'SUSPECT  
| ATTACHMENT CARD'.
- | - POWER ON THE SYSTEM.
- | - RUN THE FAILING DIAGNOSTIC.

| IS THE FAILURE THE SAME?

| Y N

- | |  
| | 145  
| | - VERIFY THE REPAIR

| |  
| 146  
| USE THIS INFORMATION AS THE  
| ERROR INDICATION.  
| GO TO MAP 0070, ENTRY POINT A.

|  
147  
THIS IS A POSSIBLE STORAGE  
PROBLEM.  
GO TO MAP 2070, ENTRY POINT PR.

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MAP 0021-56





C  
Q  
5  
7  
CONSOLE INPUT ENTRY  
PAPER ONLY  
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MAP 0021-58

|  
|  
151  
COMMON I/O  
-----

THE I/O ATTACHMENT CARD(S) THAT CAN BE USED BY BOTH PROCESSING UNIT(S). THE I/O ATTACHMENT OR DEVICE CARD(S) CAN BE INSTALLED IN THE SAME BOARD AS THE TWO CHANNEL SWITCH. THE I/O ATTACHMENT OR DEVICE CARD(S) CAN BE INSTALLED OUTBOARD OF THE TWO CHANNEL SWITCH BOARD IN SOME OTHER 4959/4965 BOARD.

- PRESS THE STOP KEY.
- DISPLAY LEVEL THREE (3).
- PRESS REGISTER ZERO (0) KEY.
- RECORD THE REGISTER CONTENTS.
- PRESS THE REGISTER ONE (1) KEY.
- RECORD THE REGISTER CONTENTS.

RO KEY ----- STEP NUMBER.  
R1 KEY ----- AATT.  
AA IS THE DEVICE ADDRESS.  
TT IS THE DEVICE TYPE.

- SEE IF THE DEVICE (AATT) IS INSTALLED AS 'COMMON I/O' TO THIS PROCESSING UNIT.

IS THE DEVICE (AATT) INSTALLED AS 'COMMON I/O' TO THIS PROCESSING UNIT?

Y N

|  
| 152  
| GO TO PAGE 48, STEP 129,  
| ENTRY POINT NT.

|  
|  
|  
|  
|  
|

5  
9  
C  
R

COMMON I/O  
-----

THE I/O ATTACHMENT CARD(S) THAT CAN BE USED BY BOTH PROCESSING UNIT(S). THE I/O ATTACHMENT OR DEVICE CARD(S) CAN BE INSTALLED IN THE SAME BOARD AS THE TWO CHANNEL SWITCH. THE I/O ATTACHMENT OR DEVICE CARD(S) CAN BE INSTALLED OUTBOARD OF THE TWO CHANNEL SWITCH BOARD IN SOME OTHER 4959/4965 BOARD.

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MAP 0021-58

C            CONSOLE INPUT ENTRY  
R  
5            PAPER ONLY  
8  
            PAGE 59 OF 68

|  
|  
153  
- SEE THE TWO CHANNEL SWITCH  
CONSOLE. SEE IF THE TWO CHANNEL  
SWITCH IS CONNECTED TO THIS  
PROCESSING UNIT.

IS THE TWO CHANNEL SWITCH  
CONNECTED TO THIS PROCESSING  
UNIT?

Y N

|  
| 154  
| - PRESS THE START KEY.  
|  
- ENTER ON THE CONSOLE:
(B)     6       (I) (I)
6 =     RESUME
- WAIT FOR THE 'AUTO' RUN TO
COMPLETE.
- SEE THE DATA LEDS.

DO THE DATA LEDS EQUAL '3800'  
OR '3805'?

Y N

|  
| 155  
| GO TO PAGE 57, STEP 150,  
| ENTRY POINT TO.

|  
| 156  
| GO TO PAGE 60, STEP 159,  
| ENTRY POINT PN.

|  
157  
GO TO PAGE 48, STEP 129,  
ENTRY POINT NT.

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C  
T  
6  
0

CONSOLE INPUT ENTRY

MAP 0021-61

PAPER ONLY

PAGE 61 OF 68

|  
|

160

- REMOVE THE DIAGNOSTIC DISKETTE JUST RUN IN 'AUTO' MODE.
- SEE THE DISKETTE LABELS WITH THIS PROCESSING UNIT OR MAP 0005 FOR A LIST OF THE PROGRAMS ON THE DISKETTE.
- INSERT THE DIAGNOSTIC DISKETTE TO BE RUN IN 'AUTO' MODE.
- ENSURE THE DISKETTE UNIT IS READY.
- DO THE FOLLOWING TO RUN THE DISKETTE IN 'AUTO' MODE.

- ENTER ON THE CONSOLE:

```
-----
(B)  A      (I) (I)
```

LISTEN FOR THE AUDIBLE DEVICE WHEN THE 'A' KEY IS PRESSED.

DID THE CONSOLE 'A' KEY WORK?

Y N

|  
| 161

- TEST THE KEY FOR CORRECT OPERATION.

```
+-----+
|PROCESS| GO TO MAP 107X, |
|UNIT IS| ENTRY POINT A. |
+-----+
| 4952  |      1071      |
| 4953  |      1071      |
| 4955  |      1071      |
| 495X  |      1072      |
+-----+
| IF TEST IS GOOD: GO TO |
| MAP 2070, ENTRY POINT PC|
+-----+
```

|  
|  
|

6  
2  
C  
U

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ECA08003 PEC336711

MAP 0021-61

C C            CONSOLE INPUT ENTRY  
S U  
6 6            PAPER ONLY  
0 1            PAGE 62 OF 68

MAP 0021-62

| |  
| |  
| 162  
| GO TO PAGE 46, STEP 123,  
| ENTRY POINT VL.  
|  
163  
END OF THE AUTO RUN TEST.

APPROXIMATELY 75% OF ALL  
ATTACHMENT AND DEVICE CIRCUIT(S)  
ARE TESTED BY DIAGNOSTICS IN  
'AUTO' RUN.

IF THE CUSTOMER IS HAVING A  
PROBLEM WITH THE SYSTEM, ANSWER  
THE QUESTION 'NO'.

IF YOU ARE HAVING A PROBLEM WITH  
THE SYSTEM, ANSWER THE QUESTION  
'NO'.

- SEE IF THE AUTO RUN WAS CORRECT  
(NO ERRORS).

WAS THE AUTO RUN CORRECT (NO  
ERRORS)?

Y N

|  
| 164  
| - SEE IF AN ATTACHMENT, DEVICE,  
| PROCESSING UNIT OR STORAGE IS  
| SUSPECT.

ARE ANY SUSPECT AS NOTED ABOVE?

Y N


6 6 6  
6 5 3  
C C C  
V W X

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MAP 0021-62

C CONSOLE INPUT ENTRY  
X  
6 PAPER ONLY  
2  
PAGE 63 OF 68

MAP 0021-63

|  
|  
165  
- SEE IF AN RPQ ATTACHMENT OR  
DEVICE IS INSTALLED.

IS AN RPQ ATTACHMENT OR DEVICE  
INSTALLED?  
Y N

|  
| 166  
| - SEE IF AN ATTACHMENT OR  
| DEVICE MUST HAVE ITS MANUAL  
| MAPS RUN TO COMPLETE THE  
| TEST.

|-----|  
| ATTACHMENT OR | NOT TESTED IN  
| DEVICE | THE AUTO RUN.  
|-----|

| COMMUNICATION | USER LINE CIRCUIT  
| DISKS | WRITE CIRCUITS  
| DISKETTES | WRITE CIRCUITS  
| 2 CHANNEL SW. | OTHER SWITCH SIDE  
| ALL RPQS | SEE RPQ PROLOG.  
| NEW FEATURES | SEE THE PROLOG.  
|-----|

| SOME DEVICES USE OFFLINE TESTS.  
| SEE PROLOG, SECTION 0.0 FOR A  
| LIST OF ALL DIAGNOSTICS USED TO  
| TEST AN ATTACHMENT OR DEVICE.

| IS THERE AN ATTACHMENT OR  
| DEVICE AS NOTED?

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

6 6 6  
4 4 4  
C C D  
Y Z A

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ECA08003 PEC336711  
MAP 0021-63

C C D        CONSOLE INPUT ENTRY  
Y Z A  
6 6 6        PAPER ONLY  
3 3 3  
PAGE 64 OF 68

MAP 0021-64

| | |  
| | |  
| | | 167  
| | | - SEE IF YOU WANT TO USE  
| | | MANUAL MODE TO TEST AN  
| | | ATTACHMENT OR DEVICE.  
| | |  
| | | DO YOU WANT TO USE MANUAL  
| | | MODE?  
| | | Y N  
| | | |  
| | | | 168  
| | | | YOU DO NOT WANT TO TEST AN  
| | | | ATTACHMENT OR DEVICE IN  
| | | | MANUAL MODE.  
| | | |  
| | | | - RUN THE SYSTEM TEST.  
| | | | GO TO PAGE 66,  
| | | | STEP 175,  
| | | | ENTRY POINT ST.  
| | | |  
| | | | 169  
| | | | GO TO PAGE 65, STEP 172,  
| | | | ENTRY POINT MK.  
| | | |  
| | | | 170  
| | | | - SEE THE MAP PROLOG OF THE  
| | | | ATTACHMENT OR DEVICE.  
| | | | GO TO PAGE 65, STEP 172,  
| | | | ENTRY POINT MK.  
| | | |  
| | | | 171  
| | | | - SEE THE MAP PROLOG OF THE RPQ  
| | | | ATTACHMENT OR DEVICE.  
| | | | GO TO PAGE 65, STEP 172,  
| | | | ENTRY POINT MK.

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MAP 0021-64



C                    CONSOLE INPUT ENTRY  
W  
6                    PAPER ONLY  
2  
                    PAGE 65 OF 68

MAP 0021-65

|  
|  
172  
(ENTRY POINT MK)

THE SYSTEM IS IN 'AUTO' MODE.

- DO THE FOLLOWING TO ENTER INTO  
'MANUAL' MODE.

- ENTER ON THE CONSOLE:

-----  
(B)     3            (I) (I)  
         3 =        MANUAL MODE

LISTEN FOR THE AUDIBLE DEVICE  
WHEN THE '3' KEY IS PRESSED.

DID THE CONSOLE '3' KEY WORK?

Y N

|  
| 173  
| - TEST THE KEY FOR CORRECT  
| OPERATION.

| +-----+  
	PROCESS	GO TO MAP 107X,
	UNIT IS	ENTRY POINT A.
	-----+-----	
	4952	1071
	4953	1071
	4955	1071
	495X	1072
	-----+-----	
	IF TEST IS GOOD: GO TO	
	MAP 2070, ENTRY POINT PC	
+-----+		

174  
- SEE THE MAP PROLOG OF THE  
ATTACHMENT, DEVICE, RPQ OR  
PROCESSING UNIT TEST TO BE RUN.  
GO TO PAGE 33, STEP 086,  
ENTRY POINT MM.

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MAP 0021-65

C            CONSOLE INPUT ENTRY  
V  
6            PAPER ONLY  
2  
            PAGE 66 OF 68

MAP 0021-66

|  
|  
175  
(ENTRY POINT ST)

- REMOVE THE DISKETTE, IF INSTALLED.
- INSTALL THE 'SYSTEM TEST' DISKETTE.
- ENSURE DISKETTE UNIT IS READY.
- PRESS THE LOAD KEY.
- RUN SYSTEM TEST AS NEEDED.
- GO TO MAP 0015, ENTRY POINT A.

IF SYSTEM TEST FAILS, SEE WHICH ATTACHMENT OR DEVICE IS CAUSING THE FAILURE.

DID THE SYSTEM TEST RUN CORRECT (NO PROBLEMS)?

Y N

|  
| 176  
| - SEE THE ATTACHMENT OR DEVICE THAT IS FAILING.

| CAN YOU SEE WHICH ATTACHMENT OR DEVICE IS FAILING?

| Y N

|  
|  
| 177  
| - USE THE SYSTEM TEST FAILURE AS THE 'FAILURE INDICATION'.  
| GO TO MAP 0070,  
| ENTRY POINT A.

|  
|  
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|  
|  
|  
|  
|

6 6  
7 7  
D D  
B C

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MAP 0021-66

D D CONSOLE INPUT ENTRY

B C

6 6 PAPER ONLY

6 6 PAGE 67 OF 68

| |  
| |  
| 178  
| - SEE IF THE SUSPECT ATTACHMENT  
| OR DEVICE DIAGNOSTIC HAS BEEN  
| RUN IN MANUAL MODE.

| HAS THE SUSPECT ATTACHMENT OR  
| DEVICE DIAGNOSTIC MAP BEEN RUN  
| IN MANUAL MODE?

| Y N

| |  
| | 179  
| | GO TO PAGE 4, STEP 005,  
| | ENTRY POINT LK.

| |  
| 180  
| GO TO MAP 0070, ENTRY POINT A.

| 181  
SYSTEM TEST CANNOT FIND A  
PROBLEM.

- SEE IF THE PROGRAMMER AND BASIC  
CONSOLE ARE CORRECT.

IF THE PROGRAMMER AND BASIC  
CONSOLE HAVE NOT BEEN TESTED:

- ANSWER THE FOLLOWING QUESTION  
'NO'.

HAVE THE PROGRAMMER AND BASIC  
CONSOLE BEEN TESTED?

Y N

| 182  
| - SEE THE PROCESSING UNIT MAP.

| THE MAP WILL TEST THE  
| PUSHBUTTON(S) AND SWITCHES ON  
| THE PROGRAMMER AND BASIC  
| CONSOLE.

| GO TO MAP 2070, ENTRY POINT KB

6  
8  
D  
D

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D           CONSOLE INPUT ENTRY  
D  
6           PAPER ONLY  
7  
            PAGE 68 OF 68

MAP 0021-68

|  
|  
183  
- SEE IF THE SYSTEM IS CORRECT.

IS THE SYSTEM CORRECT (NO  
PROBLEM)?  
Y N

|  
| 184  
| - SEE IF YOU SUSPECT AN  
| INTERMITTENT FAILURE ON THE  
| SYSTEM.

| DO YOU SUSPECT AN INTERMITTENT  
| FAILURE ON THE SYSTEM?  
| Y N

|  
| 185  
| THERE IS A PROBLEM ON THE  
| SYSTEM.  
|  
| - USE THIS PROBLEM AS THE  
| ERROR INDICATION.  
| GO TO MAP 0070, ENTRY POINT A

|  
| 186  
| YOU SUSPECT AN INTERMITTENT  
| FAILURE ON THE SYSTEM.  
| GO TO MAP 0072, ENTRY POINT A.

|  
187  
GOOD END THIS MAP.

- RETURN THE SYSTEM TO THE  
CUSTOMER.

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ECA08003     PEC336711  
MAP 0021-68