

PAPER ONLY

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ENTRY POINTS

FROM	ENTER THIS MAP		
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER

0000	A	2	001
0000	AD	70	182
0000	AE	59	153
0000	AM	46	110
0000	EM	38	084
0000	ER	60	154
0000	GC	12	016
0000	ID	20	038
0000	IP	28	064
0000	LK	17	028
0000	ME	37	079
0000	MM	30	067
0000	MN	34	073
0000	PD	23	048
0000	PI	15	024
0000	PM	39	092
0000	PO	6	008
0000	RP	35	075
0000	SS	10	014
0000	ST	74	188
0000	TS	3	002
0000	VT	47	112

EXIT POINTS

EXIT THIS MAP		TO	
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT

13	021	0021	A
22	047	0023	A
22	045	0023	AC
25	054	0023	CE
25	055	0023	CE
36	078	0023	CE
46	111	0023	CE
52	124	0023	CE
53	126	0023	CE
28	065	0024	A
12	017	0027	A
7	011	0028	A
25	056	0030	A
13	020	0031	A
14	023	0031	A
37	083	0070	A
38	085	0070	A
40	097	0070	A
54	135	0070	A
56	138	0070	A
57	141	0070	A
58	145	0070	A
59	149	0070	A
3	003	1470	A
5	007	1470	A
6	009	1470	A
15	025	2070	LL
53	130	2070	PR
58	147	2070	PR
16	027	2070	RK
51	121	3871	A
25	057	3881	A
26	058	3881	A
26	060	3881	A
27	062	3881	ES

B
2

SYSTEM ENTRY MAP

MAP 0020-3

PAPER ONLY

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002

(ENTRY POINT TS)

4999 = BATTERY BACKUP

IN THE FOLLOWING QUESTION, SEE IF
THE CUSTOMER REPORTED A POWER
PROBLEM AS FOLLOWS:

1. THE MODULE FAN(S) OPERATING.
2. 4999, IF INSTALLED.

IS THE SYSTEM POWER GOOD AS NOTED
ABOVE?

Y N

003

USE ONE OR ALL OF THE FOLLOWING
SYMPTOMS IN THE POWER MAP.

1. POWER DROPPED.
 2. THERMAL LED ON, IF INSTALLED
 3. POR LED ON, IF INSTALLED.
 4. MODULE FANS NOT OPERATING.
 5. 4999 BATTERY BACKUP.
- GO TO MAP 1470, ENTRY POINT A.

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4
C

MAP 0020-3

C
3

SYSTEM ENTRY MAP

MAP 0020-4

PAPER ONLY

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004

- SEE THE NOTE --->

IF THE SYSTEM, ATTACHMENT OR
DEVICE HAS DYNAMIC ERROR LOGGING:

- DO NOT POWER OFF THE SYSTEM OR
ANY DEVICE.

IF THE SYSTEM OR DEVICE WITH
ERROR LOGGING IS POWERED OFF,
ANSWER THE QUESTION NO.

IF YOU DO NOT WANT TO SAVE THE
ERROR LOG, ANSWER THE QUESTION
NO.

IF YOU DO WANT TO SAVE THE ERROR
LOG, ANSWER THE QUESTION YES.

ARE ERROR LOGS USED BY THE SYSTEM
OR DEVICE?

Y N

005

IF A STORAGE PARITY ERROR IS
SUSPECT AND THE STORAGE PARITY
FAILURE IS ON THE SYSTEM NOW:

- DO NOT POWER OFF THE SYSTEM
OR ANY DEVICE.

IF THE SYSTEM OR DEVICE WITH
STORAGE PARITY CHECKS IS
POWERED OFF, ANSWER THE
QUESTION 'NO'.

IS A STORAGE PARITY CHECK ON
THE SYSTEM NOW?

Y N

7 7
7 7 5
D E F

ERROR LOGGING IS USED BY:

-
- 4952D PROCESSOR.
- 4954 PROCESSOR.
- 4954D PROCESSOR.
- 4956 PROCESSOR.
- 4956D PROCESSOR.
- 4965D EXPANSION.
- 4967 ATTACHMENT.
- 4968 ATTACHMENT.

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MAP 0020-4

F
4

SYSTEM ENTRY MAP

MAP 0020-5

PAPER ONLY

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006

(ENTRY POINT EL)

- REMOVE THE DISKETTE(S), IF INSTALLED.
- POWER OFF ALL THE MODULE(S) AND DEVICE(S).
- WAIT 30 SECONDS.
- SEE IF ALL MODULES AND DEVICES POWER OFF CORRECT.

```
+-----+
|                   |
|      CAUTION      |
| DISCONNECT CUSTOMER INTERFACE |
|                   |
+-----+
```

THE SERIES 1 CAN SUPPORT OTHER EQUIPMENT MANUFACTURE AND CUSTOMER INTERFACE DEVICE(S). THE CUSTOMER MUST DISCONNECT THESE DEVICE(S) NOW, IF NECESSARY.

DO ALL THE MODULE(S) AND DEVICE(S) POWER OFF CORRECT?

Y N

007

GO TO MAP 1470, ENTRY POINT A.

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MAP 0020-5

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SYSTEM ENTRY MAP

MAP 0020-6

PAPER ONLY

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008

(ENTRY POINT PO)

DO THE FOLLOWING ON THE BASIC
CONSOLE:

- SET THE MODE SWITCH TO THE 'DIAGNOSTIC' SETTING.
- POWER ON ALL THE MODULE(S) AND DEVICE(S).
- POWER ON THE PROCESSING UNIT MODULE.
- WAIT 30 SECONDS.

THE MICRO DIAGNOSTIC(S) MUST RUN WHEN THE I/O DEVICE(S) ARE READY ON THE CHANNEL.

- SEE IF ALL MODULE AND DEVICE POWER ON LEDS ARE ON.
- USE A MULTIMETER TO MEASURE THE VOLTAGES FOR 4952/4/6 MOD D AND 4965 MOD D AT CONNECTOR P6 OF THE POWER SUPPLY.
- USE LOGIC YB460 AS REFERENCE.

ARE THE DEVICE LEDS AND VOLTAGES CORRECT?

Y N

009

GO TO MAP 1470, ENTRY POINT A.

SOME IBM DEVICE(S) HAVE OFFLINE TEST(S). IF A DEVICE IS SUSPECT, GO TO THE OFFLINE TEST(S) FIRST. SEE THE MAP PROLOG SECTION 0.0 AND 9.0 FOR A DESCRIPTION AND INSTRUCTION FOR THE OFFLINE TEST(S).
 IF THE SUSPECT DEVICE IS AN IBM PRODUCT AND THERE IS NO SERIES/1 MAP PROLOG, GO TO THE DEVICE MANUALS.
 IF NOT AN IBM PRODUCT, NOTIFY THE CUSTOMER.

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MAP 0020-6

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SYSTEM ENTRY MAP
PAPER ONLY
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MAP 0020-7

- SEE IF ONE OF THE FOLLOWING
DISKETTE UNIT(S) IS INSTALLED
ON THE SYSTEM.

1. 4962 MODEL 02(F) OR 04.
2. 4964 (A ONE DISKETTE UNIT).
3. 4965 (ONE OR TWO DISKETTES)
4. 4965D (DISKETTE)
5. 4966 (MORE THAN TWO DISKETTES)
6. 495X MOD C ONE/TWO DISKETTE
7. 495X MOD D DISKETTE

SOME 'SYSTEM(S)' USE MORE THAN
ONE (1) PROCESSING UNIT.
RUN THE DIAGNOSTIC(S) ON THE
PROCESSING UNIT THAT WILL TEST
THE 'REPORTED' FAILURE.

IN THE MAP, 'SYSTEM' IS:

THE PROCESSING UNIT (49XX) YOU
ARE USING TO RUN THE
DIAGNOSTIC(S).
ALL THE ATTACHMENT(S) AND
DEVICE(S) INSTALLED IN THE
PROCESSING UNIT BOARD.
ANY 4959/4965 BOARDS WITH
CABLE(S) CONNECTED TO THIS
PROCESSING UNIT BOARD.
ALL THE ATTACHMENT(S) AND
DEVICE(S) INSTALLED IN THE
4959/4965 BOARD(S) FOR THIS
PROCESSING UNIT.

ARE ONE OF THE ABOVE DISKETTE
UNIT(S) INSTALLED?

Y N
|
| 011
| GO TO MAP 0028, ENTRY POINT A.

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MAP 0020-7

8

PAPER ONLY

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013

- POWER OFF THE SYSTEM.
- REMOVE THE DISKETTE UNIT ATTACHMENT CARD.
- JUMPER THE DISKETTE UNIT ATTACHMENT CARD, IF NECESSARY.
- SEE MLD VOLUME 1, FOR JUMPERING INSTRUCTION(S).

- 4964 - SEE LOGIC SF120.
- 4965 - SEE LOGIC SF205.
- 4966 - SEE LOGIC SF620.
- 495X - MODEL C - LOGIC SF205.
- 495X MOD D - LOGIC SF205
- MOD C = A ONE/TWO DISKETTE UNIT.

NOTE - IF THE 'MAINTENANCE PROGRAM LOAD DEVICE' IS BEING USED AS THE LOAD DEVICE, ENSURE THAT NO OTHER DEVICE ON THE SYSTEM IS JUMPERED THE SAME AS THE 'MAINTENANCE PROGRAM LOAD DEVICE'.

- INSTALL THE DISKETTE UNIT ATTACHMENT CARD.
- POWER ON THE SYSTEM.
- GO TO PAGE 10, STEP 014, ENTRY POINT SS.

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8

SYSTEM ENTRY MAP

MAP 0020-10

PAPER ONLY

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014
(ENTRY POINT SS)

DO THE FOLLOWING ON THE BASIC
CONSOLE:

- SET THE IPL SOURCE SWITCH TO THE CORRECT POSITION.
- SEE IF AN ALTERNATE CONSOLE IS INSTALLED.
- SEE IF A PROGRAMMER OR C E CONSOLE IS INSTALLED.

IF ONE OR MORE ALTERNATE CONSOLES WITH A KEYBOARD AND A PROGRAMMER OR C E CONSOLE IS INSTALLED, ANSWER THE QUESTION 'YES'.

IF THE ALTERNATE CONSOLE IS A PRINTER OR DISPLAY WITH NO KEYBOARD, ANSWER THE QUESTION 'NO'.

A SUPPORTED ALTERNATE CONSOLE IS:
4973 PRINTER
4974 PRINTER
5200 SERIES PRINTER
1310 MULTIFUNCTION
3101 - 7485 - 4975
3101 DISPLAY (ACCA SL)
3101 DISPLAY (ACCA ML)
3101 DISPLAY (FPMLC)
3101 DISPLAY (TTY)
4978 DISPLAY
4979 DISPLAY
4980 DISPLAY
7485 DISPLAY RPQ D02350
TTY ATTACHMENT
5251/5291 DISPLAY

IS/ARE THE CONSOLE(S) INSTALLED
AS NOTED ABOVE?

Y N
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MAP 0020-10

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1 PAPER ONLY

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016
(ENTRY POINT GC)

A PROGRAMMER OR C E CONSOLE IS NOT INSTALLED.

- POWER OFF THE PROCESSING UNIT.
- SEE CABLE C6.
- GROUND THE PIN NOTED.

PROC	PIN	GROUND TO:
4952	C6D09	PIN C6D08 OR FRAME
4953	C6D09	PIN C6D08 OR FRAME
4955	C6D09	PIN C6D08 OR FRAME
495X	C6D13	PIN C6D08 OR FRAME

- POWER ON THE PROCESSING UNIT.

<<< CAUTION >>>

WHEN THE SYSTEM IS REPAIRED OR THE MAINTENANCE CONSOLE IS INSTALLED, ENSURE THE PIN IS NOT GROUNDED.

IF A PRINTER WITH NO KEYBOARD AND NO PROGRAMMER OR C E CONSOLE IS INSTALLED, ANSWER THE QUESTION 'NO'.

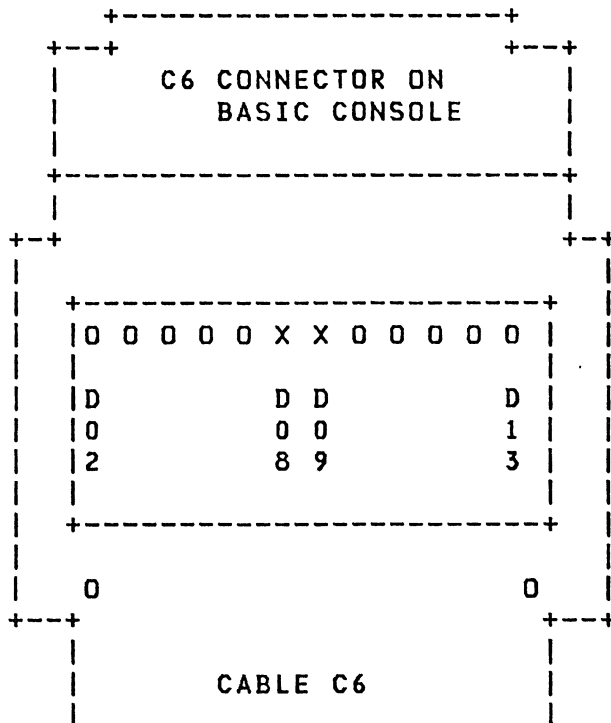
IS AN ALTERNATE CONSOLE INSTALLED?

Y N

017
GO TO MAP 0027, ENTRY POINT A.

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C6 CABLE AND CONNECTOR (REAR VIEW)



BASIC CONSOLE BOARD - REAR VIEW
PIN ROW AWAY FROM BOARD IS D ROW

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P R SYSTEM ENTRY MAP
1 1
1 2 PAPER ONLY

MAP 0020-13

| | PAGE 13 OF 77
| |
| |
| 018
| - SEE IF A 3101 ALTERNATE
| CONSOLE IS INSTALLED.
|
| IS A 3101 ALTERNATE CONSOLE
| INSTALLED?
| Y N
| |
| | 019
| | GO TO PAGE 17, STEP 028,
| | ENTRY POINT LK.
| |
| 020
| GO TO MAP 0031, ENTRY POINT A.
|
021
GO TO MAP 0021, ENTRY POINT A.

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MAP 0020-13

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0 PAPER ONLY

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022

- SEE THE ALTERNATE CONSOLE WITH
KEYBOARD INSTALLED.

IF THE CONSOLE INSTALLED IS IN
THE TABLE:

- ANSWER THE QUESTION 'YES'.

IF THE CONSOLE INSTALLED IS A
3101:

- ANSWER THE QUESTION 'NO'.

A SUPPORTED ALTERNATE CONSOLE IS:
4978 DISPLAY
4979 DISPLAY
4980 DISPLAY
7485 DISPLAY MOD 53/63
TTY ATTACHMENT
5251/5291 DISPLAY

IS THE CONSOLE AS NOTED IN THE
TABLE (NOT A 3101)?

Y N

| 023
| GO TO MAP 0031, ENTRY POINT A.

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S SYSTEM ENTRY MAP
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4 PAPER ONLY

MAP 0020-15

| PAGE 15 OF 77
|
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024
(ENTRY POINT PI)

- 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 PROCESSING UNIT ON.
| THESE DIAGNOSTICS RUN:
| ROS - DATA LEDES - STORAGE
|-----+
| IF 495X | AFTER 15 SECONDS,
| PROCESSING| DATA LEDES = FFFF
| UNIT +-----+
| TYPE |STOP |LEVEL |POWER |OTHER|
| IS: |LED |0 LED |LED |LEDES |
|-----+-----+-----+-----+
| 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

| 025
| GO TO MAP 2070, ENTRY POINT LL.
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MAP 0020-15

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SYSTEM ENTRY MAP

MAP 0020-16

PAPER ONLY

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026

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

```

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

```

ARE ALL THE CONDITIONS MET?

Y N

027

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

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MAP 0020-16

U SYSTEM ENTRY MAP
1
6 PAPER ONLY

MAP 0020-17

| PAGE 17 OF 77
|
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028
(ENTRY POINT LK)

- ENSURE NO DISKETTE(S) ARE
INSTALLED IN THE DISKETTE UNIT.
- SEE THE LOAD LED.
- PRESS THE LOAD KEY.
- WAIT 30 SECONDS.

DID THE LOAD LED GO ON AND REMAIN
ON?

Y N

| 029
| DID THE LOAD LED GO ON?

| Y N

| 030
| - CHECK LOAD KEY FOR AN OPEN.
| - CHECK LOAD LED FOR AN OPEN.

| PROCESSING| 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 0020-17

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V W

W SYSTEM ENTRY MAP
1
7 PAPER ONLY

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|

031
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.

- CHECK THE 'IPL SOURCE' SWITCH FOR THE CORRECT SETTING.

IS THE 'IPL SOURCE' SWITCH IN THE CORRECT SETTING?

Y N

| 032
| - SET THE 'IPL SOURCE' SWITCH TO THE CORRECT SETTING.
| - CHECK THE 'MODE' SWITCH FOR THE CORRECT SETTING.
| GO TO PAGE 17, STEP 028,
| ENTRY POINT LK.
|

033
THE IPL SOURCE IS IN THE CORRECT SETTING.

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

PROCESSING	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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V SYSTEM ENTRY MAP
1
7 PAPER ONLY

MAP 0020-19

| PAGE 19 OF 77
|
|

034

- SEE IF THE DISKETTE UNIT USED
TO IPL THE DIAGNOSTIC IS A:

1. 4962 MODEL 02(F) OR 04.
2. 4964 (A ONE DISKETTE UNIT).
3. 4965 (ONE OR TWO DISKETTES)
4. 4965D (DISKETTE)
5. 4966 (MORE THAN TWO DISKETTES)
6. 495X MOD C ONE/TWO DISKETTE
7. 495X MOD D DISKETTE

IS THE DISKETTE UNIT ONE OF THE
ABOVE?

Y N

|
| 035

- | - 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.
- | GO TO PAGE 20, STEP 038,
| ENTRY POINT ID.

036

- INSTALL THE BASIC DIAGNOSTIC
DISKETTE, PART NUMBER 1635001.
- ENSURE THE DISKETTE UNIT IS
READY.

IS THE ACTION COMPLETE?

Y N

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ECA08003 PEC336711

MAP 0020-19

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9 9 PAPER ONLY

| | PAGE 20 OF 77

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| |

| 037

| - INSTALL THE 'BASIC'
| DIAGNOSTIC DISKETTE, P/N
| 1635001.

| - ENSURE THE DISKETTE UNIT IS
| READY.

| GO TO STEP 038,
| ENTRY POINT ID.

|

038

(ENTRY POINT ID)

- PRESS THE LOAD KEY.
- WAIT ONE (1) MINUTE.

THESE DIAGNOSTICS WILL RUN:

-
1. IPL MICRO DIAGNOSTIC.
 2. MINIMUM PROCESSING UNIT DIAGNOSTICS.

- WAIT TWO (2) MINUTES FOR THE
IPL AND PROCESSING UNIT
DIAGNOSTICS TO RUN.

- SEE IF THE ALTERNATE CONSOLE
PRINTED OR DISPLAYED A MESSAGE
AFTER YOU LAST PRESSED THE LOAD
KEY.

AS NOTED ABOVE, DID THE ALTERNATE
CONSOLE PRINT OR DISPLAY A
MESSAGE?

Y N

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A SYSTEM ENTRY MAP
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2 PAPER ONLY
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MAP 0020-21

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039
AN ALTERNATE CONSOLE IS INSTALLED
ON THE SYSTEM, AND DOES NOT PRINT
OR DISPLAY A MESSAGE.

- SEE IF THE SUPPORTED ALTERNATE
CONSOLE POWER IS ON.

IS THE ALTERNATE CONSOLE POWER
ON?

Y N

|
| 040
| - POWER ON THE ALTERNATE
| CONSOLE.
| GO TO PAGE 17, STEP 028,
| ENTRY POINT LK.

041

- SEE THE NOTE --->
- SEE IF THE SUPPORTED ALTERNATE
CONSOLE IS READY.

NOTE

ON A DISPLAY TYPE ALTERNATE
CONSOLE, THE CURSOR IS VISIBLE.
ENSURE SWITCHES, IF INSTALLED,
ARE CORRECT.
ON A TTY TYPE ALTERNATE CONSOLE,
THE SWITCH IS IN THE 'LINE'
SETTING, AND PAPER IS INSTALLED.

IS THE SUPPORTED ALTERNATE
CONSOLE READY?

Y N

|
| 042
| - ENSURE THE ALTERNATE CONSOLE
| IS READY.

IS THE ALTERNATE CONSOLE READY?

Y N

2 2 2
2 2 2
A A A
B C D

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MAP 0020-21

A A A SYSTEM ENTRY MAP
B C D
2 2 2 PAPER ONLY
1 1 1 PAGE 22 OF 77

MAP 0020-22

| | |
| | |
| | 043
| | - POWER OFF THE SYSTEM.
| | - SEAT THE ALTERNATE CONSOLE
| | ATTACHMENT CARD IN THE
| | BOARD.
| | - SEAT THE CABLE FROM THE
| | ALTERNATE CONSOLE
| | ATTACHMENT CARD TO THE
| | DEVICE.
| |
| | ARE THE CARD AND CABLE
| | SEATED?
| | Y N
| | |
| | 044
| | - SEAT THE CARD OR CABLE.
| | GO TO PAGE 6,
| | STEP 008,
| | ENTRY POINT PO.
| | |
| | 045
| | THERE IS AN ALTERNATE CONSOLE
| | PROBLEM.
| | GO TO MAP 0023,
| | ENTRY POINT AC.
| | |
| | 046
| | GO TO PAGE 17, STEP 028,
| | ENTRY POINT LK.
| | |
| | 047
| | GO TO MAP 0023, ENTRY POINT A.

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ECA08003 PEC336711

MAP 0020-22

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SYSTEM ENTRY MAP
PAPER ONLY

MAP 0020-23

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048

(ENTRY POINT PD)

- SEE THE NOTE --->

THE ALTERNATE CONSOLE WITH
KEYBOARD CAN PRINT OR DISPLAY.

- SEE THE ALTERNATE CONSOLE
MESSAGE.

IF THERE IS AN 'RPQ' INSTALLED,
THE FOLLOWING MESSAGE WILL PRINT
OR DISPLAY.

'RPQ ON SYSTEM'

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

IF THE ALTERNATE CONSOLE IS A
DISPLAY TYPE DEVICE:

'PAGE CONTROL' IS ON AT IPL TIME
IF THE DISPLAY SUPPORTS IT. PAGE
CONTROL WILL STOP ANY MESSAGES
FROM RUNNING OFF THE TOP OF THE
SCREEN. WHEN THE WORD 'PAGE' IS
IN THE LOWER SIDE OF THE SCREEN,
PRESS 'ATTN' OR ANY 'INTERRUPT'
KEY TO GO TO THE NEXT PAGE.
TO TERMINATE 'PAGE CONTROL',
PRESS ANY 'PF' KEY.

IF THE ALTERNATE CONSOLE DOES NOT
HAVE AN 'ATTN' AND 'P F' KEY OR
DOES NOT SUPPORT PAGING:

- PRESS THE STOP KEY ON THE
PROGRAMMER OR C E CONSOLE IF
INSTALLED, TO KEEP MESSAGE(S)
ON THE SCREEN.
- PRESS THE START KEY TO
CONTINUE.

IS THE ALTERNATE CONSOLE MESSAGE
'RDY ENTER'?

Y N
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E F

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MAP 0020-23

A SYSTEM ENTRY MAP
F
2 PAPER ONLY
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MAP 0020-24

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049
- SEE THE ALTERNATE CONSOLE
MESSAGE.

CONFIGURATION ERROR(S)
01=TERMINATE
02=PRINT ALL ERRORS
03=PRINT OPTIONS
04=BYPASS 2 CHANNEL SWITCH ERROR
ENTER

IS THIS MESSAGE ON THE ALTERNATE
CONSOLE?

Y N
|
| 050
| - SEE THE ALTERNATE CONSOLE
| MESSAGE.
|
| 'FIRST AUTO CONFIGURATION
| INNER STORAGE
| 03=16K, 07=32K, 0B=48K, 0F=64K
| ENTER'

| IS THIS MESSAGE ON THE
| ALTERNATE CONSOLE?

| Y N
| |
| | 051
| | - SEE THE ALTERNATE CONSOLE
| | MESSAGE.
| |
| | 'ALTERNATE CONSOLE DEVICE
| | ADDRESS AND TYPE
| | ENTER'

| IS THIS MESSAGE ON THE
| ALTERNATE CONSOLE?

| Y N

2 2 2 2
6 6 5 5
A A A A
G H J K

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MAP 0020-24

A A SYSTEM ENTRY MAP
J K
2 2 PAPER ONLY
4 4
PAGE 25 OF 77

MAP 0020-25

| |
| |
| 052
| - SEE THE ALTERNATE CONSOLE
| DEVICE TYPE.
|
| IS THE ALTERNATE CONSOLE A 4978
| DEVICE?
| Y N
| |
| | 053
| | - SEE IF THERE ARE WRONG
| | CHARACTERS IN THE ALTERNATE
| | CONSOLE MESSAGE.
| |
| | ARE THERE WRONG CHARACTERS IN
| | THE ALTERNATE CONSOLE
| | MESSAGE?
| | Y N
| | |
| | | 054
| | | GO TO MAP 0023,
| | | ENTRY POINT CE.
| | |
| | | 055
| | | THE MESSAGE ON THE ALTERNATE
| | | CONSOLE HAS WRONG CHARACTERS
| | | IN IT.
| | | GO TO MAP 0023,
| | | ENTRY POINT CE.
| | |
| | 056
| GO TO MAP 0030, ENTRY POINT A.
|
057
THE MESSAGE ON THE ALTERNATE
CONSOLE IS:

'ALTERNATE CONSOLE DEVICE ADDRESS
AND TYPE
ENTER'
GO TO MAP 3881, ENTRY POINT A.

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MAP 0020-25

A A SYSTEM ENTRY MAP
G H
2 2 PAPER ONLY
4 4
PAGE 26 OF 77

MAP 0020-26

| |
| |
| 058
| THE MESSAGE ON THE ALTERNATE
| CONSOLE IS:
|
| 'FIRST AUTO CONFIGURATION
| INNER STORAGE
| 03=16K, 07=32K, 0B=48K, 0F=64K
| ENTER'
| GO TO MAP 3881, ENTRY POINT A.

059
- SEE IF A TWO CHANNEL SWITCH
CARD IS INSTALLED AND ITS
CABLE(S) CONNECTED TO THIS
PROCESSING UNIT BOARD.

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

| 060
| GO TO MAP 3881, ENTRY POINT A.

2
7
A
L

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MAP 0020-26

A SYSTEM ENTRY MAP
L
2 PAPER ONLY
6
PAGE 27 OF 77

MAP 0020-27

|
|
061

- ENTER ON THE CONSOLE:

F04 ENTER OR RETURN
04 = BYPASS TWO CHANNEL
SWITCH ERRORS

ANY CONFIGURATION ERRORS WILL
PRINT OR DISPLAY, UNLESS THEY ARE
COMMON I/O TO THE TWO CHANNEL
SWITCH.

- SEE THE ALTERNATE CONSOLE
MESSAGE.

IS THE MESSAGE:

'PT' OR 'RDY'
'ENTER'?

Y N

|
| 062
| - NOTE THE ERROR MESSAGE(S).
| GO TO MAP 3881, ENTRY POINT ES.
|

063

- SEE THE NOTE ---->

THERE ARE NO CONFIGURATION
ERROR(S) ON THE SYSTEM.
THE 'COMMON I/O' ATTACHMENT(S) OR
DEVICE(S) MAY CAUSE ERRORS IN AN
'AUTO' RUN, LATER IN THIS MAP.
THESE ERRORS CAUSED BY THE
'COMMON I/O' IN THE 'AUTO' RUN
MAY NOT BE VALID ERRORS.

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.

+-----+
| THE ERRORS MUST BE IGNORED |
+-----+

GO TO PAGE 28, STEP 064,
ENTRY POINT IP.

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MAP 0020-27

A SYSTEM ENTRY MAP
M
2 PAPER ONLY
8
PAGE 29 OF 77

MAP 0020-29

|
|
066

+-----+
| 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
6 0
A A
N P

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MAP 0020-29

A
S
3
0

SYSTEM ENTRY MAP

MAP 0020-31

PAPER ONLY

PAGE 31 OF 77

|
|
069

YOU WANT TO RUN A DIAGNOSTIC IN
MANUAL MODE.

- GO TO THE MAP PROLOG, SECTION
0.0.

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 4952C/54C 8529126
4D00	4965D 4952/4/6D 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 495XD 6235385
8100	3101 DISPLAY 1635001*
A000	INTEGRATED DI/DO 1635002
A300	NON IBM EQUIPMENT 1635002
A400	4982 SIO 1635279

GO TO PAGE 34, STEP 073,
ENTRY POINT MN.

ENTER ATTACHMENT/DEVICE	DISKETTE
XXXX	DIAGNOSTIC: PART NO
----	-----
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.

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MAP 0020-31

A SYSTEM ENTRY MAP
R
3 PAPER ONLY
0
PAGE 32 OF 77

MAP 0020-32

|
|
070
THERE IS AN RPQ INSTALLED ON THE
SYSTEM.

- GO TO THE MAP PROLOG, SECTION
0.0 FOR THE RPQ ATTACHMENT OR
DEVICE YOU WANT TO TEST.
- READ SECTION 0.0.

GO TO PAGE 34, STEP 073,
ENTRY POINT MN.

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MAP 0020-32

A
Q
3
0

SYSTEM ENTRY MAP

MAP 0020-33

PAPER ONLY

PAGE 33 OF 77

|
|
071

- GO TO THE MAP PROLOG, SECTION
0.0, OF SUSPECT ATTACHMENT OR
DEVICE.

```

+-----+
|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      4952C/54C|8529126
|4D00|4965D 4952/4/6D   |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 495XD        |6235385
|8100|3101 DISPLAY       |1635001*
|A000|INTEGRATED DI/DO   |1635002
|A300|NON IBM EQUIPMENT  |1635002
|A400|4982 SID           |1635279
+-----+

```

```

+-----+
|ENTER ATTACHMENT/DEVICE|DISKETTE
|XXXX|  DIAGNOSTIC:      |PART NO
|----|-----|-----|
|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      |XXXXXXX
|    |SEE PROLOG        |
+-----+

```

* IPL THIS DISKETTE ONLY.

IS THE ACTION COMPLETE?

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

3 3
4 4
A A
T U

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MAP 0020-33

A A SYSTEM ENTRY MAP
T U
3 3 PAPER ONLY
3 3
PAGE 34 OF 77

MAP 0020-34

| |
| |
| 072
| - READ SECTION 0.0 OF THE MAP
| PROLOG AND:
| GO TO STEP 073,
| ENTRY POINT MN.

073
(ENTRY POINT MN)

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

IF THE ALTERNATE CONSOLE ASSIGNED IS A 4978 RPQ DISPLAY, SEE MLD VOLUME 01, LOGIC(S) SD8XX FOR HOW KEYS ARE ASSIGNED. THE KEYS USED FOR THE ALTERNATE CONSOLE OPERATION ARE SEEN ON THE LOGIC(S). ALL OTHER KEYS ARE NOT USED.

IF THE ALTERNATE CONSOLE ASSIGNED IS A 5251/5291 DISPLAY, SEE MLD VOLUME 01, LOGIC SD426 FOR HOW KEYS ARE ASSIGNED. THE KEYS USED FOR THE ALTERNATE CONSOLE OPERATION ARE SEEN ON THE LOGIC(S).

IS THE IPL DISKETTE UNIT READY WITH THE DISKETTE INSTALLED?

Y N
|
| 074
| ENSURE THE IPL DISKETTE UNIT IS
| READY,
| GO TO PAGE 35, STEP 075,
| ENTRY POINT RP.

3
5
A
V

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MAP 0020-34

|
|
075
(ENTRY POINT RP)

- ENTER MAP NUMBER AS FOLLOWS:

BXXXX ENTER OR RETURN
XXXX = MAP NUMBER

ENSURE THE CHARACTER IS CORRECT
AS EACH KEY IS 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:

CXXXX ENTER OR RETURN
XXXX = MAP NUMBER

WAIT FOR THE FOLLOWING MESSAGE:
***D3C00 LOADED

- ENTER OPTION BIT AS FOLLOWS:

D4000 ENTER OR RETURN
D4000 = OPTION BIT ONE ON
(REQUEST ADDRESS)

WAIT FOR THE FOLLOWING MESSAGE:
ENTER

- ENTER THE COMMAND AS FOLLOWS:

A ENTER OR RETURN
A = START

WAIT FOR THE FOLLOWING MESSAGE:
DC301 MAP=3C01 STEP=0000

- ENTER THE ADDRESS AS FOLLOWS:

FXX ENTER OR RETURN
XX = DEVICE ADDRESS

DID YOU ENTER MAP NUMBER?

Y N
| |
| |
| |
| |

3 3
6 6
A A
W X

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MAP 0020-35

A A SYSTEM ENTRY MAP
W X
3 3 PAPER ONLY
5 5
PAGE 36 OF 77

MAP 0020-36

| |
| |
| 076
| - ENTER THE MAP NUMBER AND
| CONTINUE ON THE YES LEG.
|

077
IF ALTERNATE CONSOLE ASSIGNED IS
A DISPLAY, WHEN SCREEN FILLS UP
THE WORD 'PAGE' MAY BE IN LOWER
SIDE OF SCREEN. THE DISPLAY
SUPPORTS PAGING. 'ATTN' KEY MUST
BE PRESSED TO CONTINUE. IF
ALTERNATE CONSOLE DOES NOT HAVE
AN 'ATTN' AND 'P F' KEY OR DOES
NOT HAVE 'PAGE' MESSAGE:

- PRESS STOP KEY ON PROGRAMMER
CONSOLE IF INSTALLED, TO KEEP
MESSAGES ON SCREEN.
- PRESS START TO CONTINUE.

IF ALTERNATE CONSOLE IS A 4978
RPQ DISPLAY, SEE LOGIC SD8XX FOR
HOW KEYS ARE ASSIGNED. SEE WHICH
KEY IS ATTN KEY.
IF ALTERNATE CONSOLE IS A
5251/5291 DISPLAY, SEE LOGIC
SD426 FOR HOW KEYS ARE ASSIGNED.
SEE WHICH KEY IS ATTN KEY.

CAN YOU MAKE THE CORRECT KEYBOARD
ENTRY INTO THE SYSTEM?

Y N
|
| 078
| GO TO MAP 0023, ENTRY POINT CE.
|
|
|
|
|
|
|

3
7
A
Y

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MAP 0020-36

A SYSTEM ENTRY MAP
Y
3 PAPER ONLY
6
PAGE 37 OF 77

MAP 0020-37

079
(ENTRY POINT ME)

- SEE IF THE ATTACHMENT OR DEVICE
MAP RAN WITHOUT ERROR.

IF THERE IS NO MESSAGE PRINTED OR
DISPLAYED, ANSWER THE QUESTION
'NO'.

DID THE ATTACHMENT OR DEVICE MAP
RUN WITHOUT ERROR?

Y N

080
- SEE IF THIS IS THE FIRST TIME
HERE.

IS THIS THE FIRST TIME HERE?

Y N

081
- SEE IF YOU RAN THE SAME
DIAGNOSTIC MORE THAN ONCE.

HAVE YOU JUST RUN THE SAME
DIAGNOSTIC FOR THE SECOND
TIME?

Y N

082
THERE IS AN ERROR IN
ATTACHMENT OR DEVICE MAP.
GO TO PAGE 38,
STEP 084,
ENTRY POINT EM.

083
GO TO MAP 0070,
ENTRY POINT A.

3 3
8 8
A B
Z A

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MAP 0020-37

A B SYSTEM ENTRY MAP
Z A
3 3 PAPER ONLY
7 7
PAGE 38 OF 77

MAP 0020-38

| |
| |
| 084
| (ENTRY POINT EM)
|
| THERE IS AN ERROR INDICATED BY
| A DIAGNOSTIC.
| - FOLLOW THE ERROR MESSAGE
| INSTRUCTION(S).|

| IF THERE WAS NO MESSAGE PRINTED
| OR DISPLAYED:
| - EXCHANGE THE ATTACHMENT CARD
| OF THE ATTACHMENT/DEVICE THAT
| WAS RUNNING.|

| IS THE SYSTEM REPAIRED?
| Y N
| |

| | 085
| | GO TO MAP 0070,
| | ENTRY POINT A.
| |

| 086
| - VERIFY THE REPAIR
|

087
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
|

| 088
| - SEE WHICH MAP(S) HAVE TO BE
| RUN FOR A COMPLETE TEST OF
| THE ATTACHMENT OR DEVICE.
| GO TO PAGE 35, STEP 075,
| ENTRY POINT RP.
|

3
9
B
B

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MAP 0020-38

B SYSTEM ENTRY MAP
B
3 PAPER ONLY
8
PAGE 39 OF 77

MAP 0020-39

|
|
089
- SEE IF YOU RAN THE DIAGNOSTICS
IN AUTO MODE.

HAVE THE DIAGNOSTIC(S) BEEN RUN
IN AUTO MODE?

Y N

|
| 090
| GO TO PAGE 46, STEP 110,
| ENTRY POINT AM.

|
091
THE ATTACHMENT OR DEVICE CAN BE
FAILING INTERMITTENTLY. LOOPING
THE DIAGNOSTIC FOR THE SUSPECT
DEVICE CAN SHOW A FAILURE.

DO YOU WANT TO LOOP ON A
DIAGNOSTIC FOR THIS DEVICE?

Y N

|
| 092
| (ENTRY POINT PM)
|
| CHECK THE ATTACHMENT OR DEVICE
| PROLOG FOR ANY 'PAPER' ONLY
| MAP.
| THE MAP(S) NUMBER IS 'XX70' OR
| 'XX80'.
| CHECK THESE 'XX70' OR 'XX80'
| MAP(S) TO SEE IF THEY DO ANY
| PROBLEM ANALYSIS.

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

Y N

|
| 093
| GO TO PAGE 74, STEP 188,
| ENTRY POINT ST.

|
|
4 4
1 0
B B
C D

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MAP 0020-39

B SYSTEM ENTRY MAP
D
3 PAPER ONLY
9
PAGE 40 OF 77

MAP 0020-40

|
|
094
- FOLLOW THE INSTRUCTION IN THE
'PAPER' ONLY MAP.

DOES THE 'PAPER' ONLY MAP
INDICATE A FAILURE?
Y N

|
| 095
| GO TO PAGE 74, STEP 188,
| ENTRY POINT ST.
|

096
- SEE IF THE PAPER ONLY MAP
REPAIRS THE FAILURE.

DOES THE PAPER ONLY MAP REPAIR
THE FAILURE?
Y N

|
| 097
| GO TO MAP 0070, ENTRY POINT A.
|

098
- VERIFY THE REPAIR

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MAP 0020-40

B
C
3
9

SYSTEM ENTRY MAP

MAP 0020-41

PAPER ONLY

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|
|
099

IF YOU ARE USING THE PROGRAMMER
OR C E CONSOLE AS THE INPUT
DEVICE, ANSWER THE FOLLOWING
QUESTION 'NO'.

```

+-----+
| A SUPPORTED ALTERNATE |
| CONSOLE IS:          |
+-----+
| 4973 PRINTER         |
| 4974 PRINTER         |
| 5200 SERIES PRINTER  |
+-----+
| 1310 MULTIFUNCTION   |
|   3101 - 7485 - 4975 |
| 3101 DISPLAY (ACCA SL) |
| 3101 DISPLAY (ACCA ML) |
| 3101 DISPLAY (FPMLC)  |
| 3101 DISPLAY (TTY)   |
| 4978 DISPLAY         |
| 4979 DISPLAY         |
| 4980 DISPLAY         |
| 7485 DISPLAY RPQ D02350 |
+-----+
| TTY ATTACHMENT      |
+-----+
| 5251/5291 DISPLAY   |
+-----+

```

ARE YOU USING A CONSOLE WITH
KEYBOARD AS INPUT DEVICE?

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

4 4
4 2
B B
E F

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MAP 0020-41

B
F
4
1

SYSTEM ENTRY MAP

MAP 0020-42

PAPER ONLY

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100

- SELECT ATTACHMENT/DEVICE TO LOOP.

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 4952C/54C 8529126
4D00	4965D 4952/4/6D 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 495XD 6235385
8100	3101 DISPLAY 1635001*
A000	INTEGRATED DI/DO 1635002
A300	NON IBM EQUIPMENT 1635002
A400	4982 SIO 1635279

ENTER ATTACHMENT/DEVICE	DISKETTE
XXXX	DIAGNOSTIC: PART NO
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.

IS THE ACTION COMPLETE?

Y N

101

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

4
3
B
G

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MAP 0020-42

B SYSTEM ENTRY MAP
G
4 PAPER ONLY
2 PAGE 43 OF 77

MAP 0020-43

|
|
102
- 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 AN ERROR MESSAGE IN THE DATA
LEDS?

Y N

|
| 103
| - LOOP UNTIL ALL THE TESTING IS
| COMPLETE.

| TO STOP THE LOOP:

| - ENTER ON THE CONSOLE:

(D) 9 (I) (I)

| IF THERE IS NO PROBLEM,
| GO TO PAGE 39, STEP 092,
| ENTRY POINT PM.

|
104
GO TO PAGE 38, STEP 084,
ENTRY POINT EM.

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MAP 0020-43

B SYSTEM ENTRY MAP
 E
 4 PAPER ONLY
 1
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MAP 0020-44

105

- SELECT ATTACHMENT/DEVICE TO LOOP.

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 4952C/54C	8529126
4D00 4965D 4952/4/6D	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 495XD	6235385
8100 3101 DISPLAY	1635001*
A000 INTEGRATED DI/DO	1635002
A300 NON IBM EQUIPMENT	1635002
A400 4982 SIO	1635279

ENTER ATTACHMENT/DEVICE	DISKETTE
XXXX DIAGNOSTIC:	PART NO.
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.

IS THE ACTION COMPLETE?

Y N

106

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

4
5
B
H

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MAP 0020-44

B SYSTEM ENTRY MAP
H
4 PAPER ONLY
4 PAGE 45 OF 77

MAP 0020-45

|
|
107
- TO LOOP ON A MAP:

- ENTER ON THE CONSOLE:

CXXXX ENTER OR RETURN
D0080 ENTER OR RETURN
A ENTER OR RETURN
XXXX = DIAGNOSTIC TO LOOP.

THE XXXX DIAGNOSTIC IS LOOPING.
IF A FAILURE OCCURS, THE ERROR
MESSAGE IS ON THE CONSOLE AND THE
DIAGNOSTIC DOES NOT STOP, BUT IS
IN A LOOP.

IS AN ERROR MESSAGE PRINTED OR
DISPLAYED?

Y N

|
| 108
| - LOOP UNTIL ALL THE TESTING IS
| COMPLETE.

|
| TO STOP THE LOOP:
| - ENTER ON THE CONSOLE:

| -----
| 9 ENTER OR RETURN
| IF THERE IS NO PROBLEM,
| GO TO PAGE 39, STEP 092,
| ENTRY POINT PM.

|
109
GO TO PAGE 38, STEP 084,
ENTRY POINT EM.

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MAP 0020-45

B SYSTEM ENTRY MAP
J
4 PAPER ONLY
6 PAGE 47 OF 77

MAP 0020-47

|
|
112
(ENTRY POINT VT)

THE SYSTEM IS IN AUTO MODE.
IF ALTERNATE CONSOLE ASSIGNED IS
A DISPLAY, WHEN SCREEN FILLS UP
THE WORD 'PAGE' MAY BE IN LOWER
SIDE OF SCREEN. THE DISPLAY
SUPPORTS PAGING. 'ATTN' KEY MUST
BE PRESSED TO CONTINUE. IF
ALTERNATE CONSOLE DOES NOT HAVE
AN 'ATTN' AND 'P F' KEY OR DOES
NOT HAVE 'PAGE' MESSAGE:

- PRESS STOP KEY ON PROGRAMMER
CONSOLE IF INSTALLED, TO KEEP
MESSAGES ON SCREEN.
- PRESS START TO CONTINUE.

IF ALTERNATE CONSOLE IS A 4978
RPQ DISPLAY, SEE LOGIC SD8XX FOR
HOW KEYS ARE ASSIGNED. SEE WHICH
KEY IS ATTN KEY.
IF ALTERNATE CONSOLE IS A
5251/5291 DISPLAY, SEE LOGIC
SD426 FOR HOW KEYS ARE ASSIGNED.
SEE WHICH KEY IS ATTN KEY.

ALL DEVICE(S) MUST BE OBSERVED,
TO ENSURE THE CORRECT DIAGNOSTIC
IS BEING RUN ON A DEVICE. THE
TIME FOR AN AUTO RUN IS VARIABLE.

- SEE IF AUTO RUN STARTED.

HAS THE AUTO RUN STARTED?

Y N
|
| 113
| - START THE AUTO RUN AND
| CONTINUE ON THE YES LEG.
|
|
|

4
8
B
K

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MAP 0020-47

B
K
4
7

SYSTEM ENTRY MAP

MAP 0020-48

PAPER ONLY

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114

DIAGNOSTICS RUN IN SEQUENCE BY
TYPE AND ADDRESS, IF IN TABLE.

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 4952C/54C 8529126
4D00	4965D 4952/4/6D 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 495XD 6235385
8100	3101 DISPLAY 1635001*
A000	INTEGRATED DI/DO 1635002
A300	NON IBM EQUIPMENT 1635002
A400	4982 SIO 1635279

ENTER ATTACHMENT/DEVICE	DISKETTE
XXXX	DIAGNOSTIC: PART NO.
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.

AT THE END OF AUTO RUN, CONSOLE
MESSAGE IS: RDY
ENTER

IS CONSOLE MESSAGE AS NOTED?

Y N
| |
| |
| |
| |

5 4
9 9
B B
L M

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MAP 0020-48

B
M
4
8

SYSTEM ENTRY MAP

MAP 0020-49

PAPER ONLY

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|
|

115
SEE THE ALTERNATE CONSOLE MESSAGE(S). IF THERE IS MORE THAN ONE ERROR MESSAGE, USE THE FIRST ERROR MESSAGE TO ANSWER THE FOLLOWING QUESTION.

DOES THE ALTERNATE CONSOLE MESSAGE = 'MCK' OR 'PCK'?

Y N

|

| 116
| 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.

| DOES A MAP TAKE MORE THAN
| FIFTEEN (15) MINUTES TO RUN?

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

5 5 5
9 4 0
B B B
N P Q

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MAP 0020-49

|
|
117
THERE IS AN ERROR IN THE AUTO
RUN.
THE ALTERNATE CONSOLE WILL PRINT
OR DISPLAY AN ERROR MESSAGE.

DOES THE ALTERNATE CONSOLE PRINT
OR DISPLAY AN ERROR MESSAGE?
Y N

|
118
- SEE IF A C E OR PROGRAMMER
CONSOLE IS INSTALLED ON THE
PROCESSING UNIT.

IF A C E OR PROGRAMMER CONSOLE
IS INSTALLED ON THE PROCESSING
UNIT
- ANSWER THE FOLLOWING QUESTION
'NO'.

IS THE ALTERNATE CONSOLE THE
ONLY CONSOLE INSTALLED ON THE
SYSTEM?
Y N

119
THE ALTERNATE CONSOLE DOES
NOT HAVE AN ERROR MESSAGE
PRINTED OR DISPLAYED.
A PROGRAMMER OR C E CONSOLE
IS INSTALLED ON THE
PROCESSING UNIT.

DO THE DATA LEDS EQUAL '3802'
OR '3803'?

Y N

5 5 5 5
4 2 1 1
B B B B
R S T U

B B SYSTEM ENTRY MAP
T U
5 5 PAPER ONLY
0 0
PAGE 51 OF 77

MAP 0020-51

| |
| |
| 120
| THE DATA LEDS EQUAL THE MAP
| NUMBER THAT WAS RUNNING WHEN
| THE FAILURE OCCURRED.

|
| UNLESS NOTED, THE LEVEL 3
| REGISTERS CONTAIN:
| REGISTER 0 = MAP STEP NUMBER.
| REGISTER 1 = AATT - DEVICE
| ADDRESS AND TYPE.
| REGISTER 2 = UNIT ADDRESS, IF
| USED.
| REGISTER 3 = ADDRESS OF MORE
| INFORMATION.

|
| DISPLAY AND RECORD THE
| REGISTERS AS FOLLOWS:

- | - PRESS THE STOP KEY.
- | - ENSURE LEVEL THREE (3).
- | - PRESS THE REGISTER ZERO (0)
| KEY.
- | - PRESS THE REGISTER ONE (1)
| KEY.
- | - PRESS THE REGISTER TWO (2)
| KEY.
- | - PRESS THE REGISTER THREE (3)
| KEY.
- | - GO TO THE PAPER MAP NUMBER
| (FROM THE DATA LEDS).
- | - GO TO THE MAP STEP NUMBER
| FROM REGISTER ZERO (0).

|
121
GO TO MAP 3871, ENTRY POINT A.

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MAP 0020-51

B SYSTEM ENTRY MAP
S
5 PAPER ONLY
0
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MAP 0020-52

|
|
122
THE ALTERNATE CONSOLE WILL PRINT
OR DISPLAY 'XXXX LOADED'
MESSAGE(S) AS A DIAGNOSTIC IS
LOADED.

IS THE 'XXXX LOADED' MESSAGE ON
THE ALTERNATE CONSOLE?

Y N

|
| 123
| - SEE IF THE ALTERNATE CONSOLE
| IS A DISPLAY TYPE.

| IS THE ALTERNATE CONSOLE A
| DISPLAY TYPE?

Y N

|
| 124
| THE ALTERNATE CONSOLE IS THE
| SUSPECT ATTACHMENT CARD.
| GO TO MAP 0023,
| ENTRY POINT CE.

| 125
| IF THE SCREEN HAS NO MESSAGE,
| OR THERE IS NO 'XXXX LOADED'
| MESSAGE ON THE DISPLAY TYPE
| ALTERNATE CONSOLE WHEN AN ERROR
| OCCURS:

| - IPL THE DIAGNOSTIC TO THE
| FAILURE POINT.
| - NOTE THE LAST 'XXXX LOADED'
| MESSAGE, IF ANY.

| IS THERE AN 'XXXX LOADED'
| MESSAGE ON THE SCREEN AT ANY
| TIME?

Y N

| |
| |
| |
| |

5 5 5
3 3 3
B B B
V W X

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MAP 0020-52

B B B SYSTEM ENTRY MAP
V W X
5 5 5 PAPER ONLY
2 2 2
PAGE 53 OF 77

MAP 0020-53

| | |
| | |
| | 126
| | THE ALTERNATE CONSOLE IS THE
| | SUSPECT ATTACHMENT CARD.
| | GO TO MAP 0023,
| | ENTRY POINT CE.

| |
| | 127
| - USE THE LAST 'XXXX LOADED'
| MESSAGE AS THE 'SUSPECT
| ATTACHMENT CARD'.
| GO TO PAGE 30, STEP 067,
| ENTRY POINT MM.

|
128
- SEE THE 'XXXX LOADED' MESSAGE.

DOES 'XXXX LOADED' EQUAL '2XXX
LOADED'?

Y N

| |
| | 129
| | 'XXXX LOADED' DOES NOT EQUAL
| | '2XXX LOADED'.
| | THIS IS A POSSIBLE ATTACHMENT
| | OR DEVICE PROBLEM.
| | THIS IS A POSSIBLE CHANNEL
| | PROBLEM.

| |
| | THE ATTACHMENT CARD USED BY THE
| | LAST 'XXXX LOADED' MESSAGE
| | PRINTED OR DISPLAYED IS THE
| | 'SUSPECT ATTACHMENT CARD'.
| | GO TO PAGE 30, STEP 067,
| | ENTRY POINT MM.

|
130
THIS IS A POSSIBLE STORAGE
PROBLEM.
GO TO MAP 2070, ENTRY POINT PR.

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MAP 0020-53

B B SYSTEM ENTRY MAP
P R
4 5 PAPER ONLY
9 0
PAGE 54 OF 77

MAP 0020-54

| |
| |
| 131
| GO TO PAGE 59, STEP 153,
| ENTRY POINT AE.

|
132
DCP IS LOOPING IN A DIAGNOSTIC
PROGRAM.

- SEE IF THERE ARE ERROR
MESSAGE(S) ON THE ALTERNATE
CONSOLE.

ARE THERE ERROR MESSAGE(S) ON THE
ALTERNATE CONSOLE?

Y N

| |
| 133
| - SEE IF THERE ARE 'XXXX
| LOADED' MESSAGES ON THE
| ALTERNATE CONSOLE.

| ARE THERE ANY 'XXXX LOADED'
| MESSAGE(S) ON THE ALTERNATE
| CONSOLE?

| Y N

| |
| 134
| - SEE IF THE ALTERNATE
| CONSOLE IS A DISPLAY TYPE
| CONSOLE.

| IS THE ALTERNATE CONSOLE AS
| NOTED?

| Y N

| |
| 135
| THE ALTERNATE CONSOLE
| ATTACHMENT CARD IS THE
| 'SUSPECT ATTACHMENT' CARD.
| GO TO MAP 0070,
| ENTRY POINT A.

| |
| |
| |
| |
5 5 5
9 7 5
B B C
Y Z A

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MAP 0020-54

|
|
136
THE ALTERNATE CONSOLE IS A
DISPLAY TYPE DEVICE.
THE SCREEN DOES NOT HAVE A
MESSAGE ON IT.

IS A PROGRAMMER OR C E CONSOLE
INSTALLED?
Y N

|
| 137
| - LOAD THE DIAGNOSTIC(S) AND
| RUN TO A FAILURE POINT.
| - NOTE THE LAST MESSAGE
| DISPLAYED ON THE SCREEN
| BEFORE THE FAILURE.
| - NOTE THE ATTACHMENT CARD FOR
| THIS LAST MESSAGE.

| SEE IF THERE IS A HARD COPY OF
| THE CONFIGURATION TABLE. IT
| WILL SHOW THE SEQUENCE IN WHICH
| THE DEVICE DIAGNOSTIC(S) ARE
| RUN. USE IT TO SEE WHICH
| DEVICE DIAGNOSTIC CAUSED THE
| FAILURE.

| - POWER OFF THE SYSTEM.
| - EXCHANGE THE ATTACHMENT CARD
| NOTED PREVIOUSLY.
| - POWER ON THE SYSTEM.
| - RUN TO THE SAME FAILURE
| POINT.

| IS THE PROBLEM REPAIRED?
| Y N

5 5 5
6 6 6
C C C
B C D

C C C SYSTEM ENTRY MAP
B C D
5 5 5 PAPER ONLY
5 5 5
PAGE 56 OF 77

MAP 0020-56

| | |
| | |
| | 138
| | THE CARD EXCHANGED DID NOT
| | REPAIR THE PROBLEM.
| | IF CONNECTED TO A DEVICE, THE
| | DEVICE CAN BE THE CAUSE OF
| | THE PROBLEM.
| | AN ATTACHMENT/DEVICE ON THE
| | CHANNEL CAN BE THE CAUSE OF
| | THE PROBLEM.
| |
| | THE CARD EXCHANGED IN THIS
| | MAP IS THE 'SUSPECT
| | ATTACHMENT' IN MAP 0070.
| | GO TO MAP 0070,
| | ENTRY POINT A.

| |
| 139
| - VERIFY THE REPAIR

|
140
THE DATA LEDS EQUAL THE MAP
NUMBER THAT WAS RUNNING WHEN THE
PROGRAM STARTED TO LOOP.

- POWER OFF THE SYSTEM.
- EXCHANGE THE ATTACHMENT CARD
INDICATED BY THE DATA LED MAP
NUMBER.
- POWER ON THE SYSTEM.
- RUN TO THE SAME FAILURE POINT,
IF YOU CAN.

IS THE PROBLEM REPAIRED?

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

5 5
7 7
C C
E F

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MAP 0020-56

B C C SYSTEM ENTRY MAP
Z E F
5 5 5 PAPER ONLY
4 6 6
 PAGE 57 OF 77

MAP 0020-57

| | |
| | |
| | 141
| | THE CARD EXCHANGED DID NOT
| | REPAIR THE PROBLEM.
| | IF CONNECTED TO A DEVICE, THE
| | DEVICE CAN BE THE CAUSE OF
| | THE PROBLEM.
| | AN ATTACHMENT/DEVICE ON THE
| | CHANNEL CAN BE THE CAUSE OF
| | THE PROBLEM.

| | THE CARD EXCHANGED IN THIS
| | MAP IS THE 'SUSPECT
| | ATTACHMENT' IN MAP 0070.
| | GO TO MAP 0070,
| | ENTRY POINT A.

| |
| 142
| - VERIFY THE REPAIR

143
DCP IS LOOPING IN THE MAP
REPRESENTED BY THE LAST 'XXXX
LOADED' MESSAGE PRINTED OR
DISPLAYED, AND CANNOT PRINT OR
DISPLAY AN ERROR MESSAGE.

- SEE THE 'XXXX LOADED' MESSAGE.

DOES 'XXXX LOADED' EQUAL '2XXX
LOADED'?

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

5 5
8 8
C C
G H

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MAP 0020-57

| |
| |
| 144
| 'XXXXLOADED' DOES NOT EQUAL
| '2XXXLOADED'.
| THIS IS A POSSIBLE ATTACHMENT
| OR DEVICE PROBLEM.
| THIS IS A POSSIBLE CHANNEL
| PROBLEM.
| THE ATTACHMENT CARD REPRESENTED
| BY THE LAST 'XXXX LOADED'
| MESSAGE PRINTED OR DISPLAYED 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 PROBLEM REPAIRED?

| Y N

| | 145
| | GO TO MAP 0070,
| | ENTRY POINT A.

| 146
| - VERIFY THE REPAIR

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

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B B B SYSTEM ENTRY MAP
L N Y
4 4 5 PAPER ONLY
8 9 4
PAGE 59 OF 77

MAP 0020-59

| | |
| | |
| | 148
| | - FOLLOW THE ERROR MESSAGE
| | INSTRUCTION(S).

| | IS THE PROBLEM REPAIRED?
| | Y N

| | |
| | | 149
| | | GO TO MAP 0070,
| | | ENTRY POINT A.

| | |
| | | 150
| | | - VERIFY THE REPAIR

| | |
| | | 151
| | | GO TO MAP 3871, ENTRY POINT A.

| | |
| | | 152
| | | SEE IF THERE ARE ANY ERROR
| | | MESSAGE(S) PRINTED OR DISPLAYED
| | | ON THE ALTERNATE CONSOLE. IF ANY
| | | ATTACHMENT(S) OR DEVICE(S) HAD A
| | | FAILURE,
| | | - ANSWER THE FOLLOWING QUESTION
| | | 'NO'.

| | |
| | | WAS THE AUTO RUN ERROR FREE?
| | | Y N

| | |
| | | 153
| | | (ENTRY POINT AE)

| | |
| | | - SEE IF A TWO CHANNEL SWITCH
| | | CARD IS INSTALLED AND ITS
| | | CABLE(S) CONNECTED TO THIS
| | | PROCESSING UNIT BOARD.

| | |
| | | IS A TWO CHANNEL SWITCH
| | | CONNECTED TO THE PROCESSING
| | | UNIT YOU ARE USING?

| | |
| | | Y N

7 6 6
0 1 0
C C C
J K L

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MAP 0020-59

C SYSTEM ENTRY MAP
L
5 PAPER ONLY
9
PAGE 60 OF 77

MAP 0020-60

154
(ENTRY POINT ER)

- SEE THE ALTERNATE CONSOLE ERROR MESSAGE(S).

IF THERE IS MORE THAN ONE ERROR MESSAGE, USE THE FIRST ERROR MESSAGE TO ANSWER THE FOLLOWING QUESTION.

DOES THE ALTERNATE CONSOLE MESSAGE EQUAL 'MCK' OR 'PCK'?

Y N

155
(ENTRY POINT EI)

- FOLLOW THE ERROR MESSAGE INSTRUCTION(S).

IS THE PROBLEM REPAIRED?

Y N

156
- SEE IF YOU NEED THE C E MAINTENANCE CONSOLE TOOL TO COMPLETE THE REPAIR.

DO YOU NEED THE C E MAINTENANCE CONSOLE TOOL TO COMPLETE THE REPAIR?

Y N

157
GO TO MAP 0070, ENTRY POINT A.

6 6 6
1 1 1
C C C
M N P

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MAP 0020-60

C C C C SYSTEM ENTRY MAP
K M N P
5 6 6 6 PAPER ONLY
9 0 0 0
PAGE 61 OF 77

MAP 0020-61

| | | |
| | | |
| | | 158
| | | OBTAIN THE FOLLOWING.
| | | ANY PARTS NEEDED FOR
| | | REPAIR.
| | | C E MAINTENANCE CONSOLE
| | | TOOL.
| | |
| | | INSTALL C E CONSOLE:
| | | -----
| | | - SEE PROCESSING UNIT
| | | MAINTENANCE INFORMATION
| | | MANUAL :
| | | 'MAINTENANCE CONSOLE
| | | ATTACHMENT PROCEDURE'.
| | | - SEE THE MLD VOLUME 1,
| | | PAXXX FOR THE PROCESSING
| | | UNIT TOP CARD
| | | CONNECTOR(S).
| | | GO TO PAGE 2,
| | | STEP 001,
| | | ENTRY POINT A.
| | |
| | | 159
| | | - VERIFY THE REPAIR
| | |
| | | 160
| | | GO TO MAP 3871, ENTRY POINT A.
| | |
| | | 161
| | | - SEE IF DIAGNOSTIC 3E00 OR 3F00
| | | PRINTED OR DISPLAYED AN ERROR
| | | MESSAGE.

DID DIAGNOSTIC 3E00 OR 3F00 HAVE AN ERROR?

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

6 6
9 2
C C
Q R

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MAP 0020-61

C SYSTEM ENTRY MAP
V
6 PAPER ONLY
3
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MAP 0020-64

|
|

166
FOR A VALID AUTO RUN, THE TWO CHANNEL SWITCH MUST BE CONNECTED TO THE PROCESSING UNIT YOU ARE USING TO RUN THE DIAGNOSTIC(S), AS FOLLOWS:

IF YOU ARE USING PROCESSING UNIT 'A' TO RUN THE DIAGNOSTIC(S), THE TWO CHANNEL SWITCH CONSOLE CONN 'A' LED MUST BE ON.

IF YOU ARE USING PROCESSING UNIT 'B' TO RUN THE DIAGNOSTIC(S), THE TWO CHANNEL SWITCH CONSOLE CONN 'B' LED MUST BE ON.

IF YOU ARE USING TWO OR MORE PROCESSING UNIT(S) WITH TWO OR MORE TWO CHANNEL SWITCHES INSTALLED, THE TWO CHANNEL SWITCHES MUST BE SET UP AS FOLLOWS:

IF YOU ARE USING PROCESSING UNIT 'A' TO RUN THE DIAGNOSTIC(S), ALL TWO CHANNEL SWITCH CONSOLE CONN 'A' LEDS MUST BE ON.

IF YOU ARE USING PROCESSING UNIT 'B' TO RUN THE DIAGNOSTIC(S), ALL TWO CHANNEL SWITCH CONSOLE CONN 'B' LEDS MUST BE ON.

SEE IF YOU WANT TO RUN THE AUTO DIAGNOSTIC(S) WITH ALL THE COMMON I/O CONNECTED TO THIS PROCESSING UNIT.

DO YOU WANT TO RUN THE AUTO DIAGNOSTIC(S) AS NOTED ABOVE?

Y N
| |
| |
| |
| |

6 6
5 5
C C
W X

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MAP 0020-64

C C SYSTEM ENTRY MAP
W X
6 6 PAPER ONLY
4 4
PAGE 65 OF 77

MAP 0020-65

| |
| |
| 167
| GO TO PAGE 70, STEP 182,
| ENTRY POINT AD.

|
168
- SEE IF THERE IS ONLY ONE (1)
TWO CHANNEL SWITCH ON THE
SYSTEM.

IF THE SYSTEM HAS TWO (2)
PROCESSING UNIT(S) AND TWO (2)
TWO CHANNEL SWITCHES, ANSWER THE
FOLLOWING QUESTION 'NO'.

IS THERE ONLY ONE (1) TWO CHANNEL
SWITCH INSTALLED ON THE SYSTEM?

Y N
|
| 169
| YOU ARE USING TWO OR MORE
| PROCESSING UNIT(S) WITH TWO OR
| MORE TWO CHANNEL SWITCHES
| INSTALLED.
| - SEE THE TWO CHANNEL SWITCH
| CONSOLE(S).
| - ENSURE THE TWO CHANNEL
| SWITCH(ES) ARE SET TO THE
| PROCESSING UNIT YOU ARE USING
| TO RUN THE DIAGNOSTIC(S).
| IF YOU ARE USING PROCESSING
| UNIT 'A' TO RUN THE
| DIAGNOSTIC(S), THE TWO CHANNEL
| SWITCH CONSOLE CONN 'A' LEDS
| MUST BE ON.
| IF YOU ARE USING PROCESSING
| UNIT 'B' TO RUN THE
| DIAGNOSTIC(S), THE TWO CHANNEL
| SWITCH CONSOLE CONN 'B' LEDS
| MUST BE ON.
| GO TO PAGE 46, STEP 110,
| ENTRY POINT AM.

|
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MAP 0020-65

C C SYSTEM ENTRY MAP
U Y
6 6 PAPER ONLY
3 5 PAGE 66 OF 77

MAP 0020-66

| |
| |
| 170
| YOU ARE USING ONE (1)
| PROCESSING UNIT WITH ONE (1)
| TWO CHANNEL SWITCH INSTALLED.

| - SEE THE TWO CHANNEL SWITCH
| CONSOLE(S).
| - ENSURE THE TWO CHANNEL
| SWITCH(ES) ARE SET TO THE
| PROCESSING UNIT YOU ARE USING
| TO RUN THE DIAGNOSTIC(S).

| IF YOU ARE USING PROCESSING
| UNIT 'A' TO RUN THE
| DIAGNOSTIC(S), THE CONSOLE CONN
| 'A' LED MUST BE ON.

| IF YOU ARE USING PROCESSING
| UNIT 'B' TO RUN THE
| DIAGNOSTIC(S), THE CONSOLE CONN
| 'B' LED MUST BE ON.

| GO TO PAGE 46, STEP 110,
| ENTRY POINT AM.

|
| 171
| THE ERRORS ARE TO BE IGNORED.
| THE 'COMMON I/O' IS BEING USED BY
| THE CUSTOMER.

- SEE IF THE CUSTOMER WILL GIVE
YOU THE 'COMMON I/O'

WILL THE CUSTOMER GIVE YOU THE
'COMMON I/O'?

Y N

| 172
| GO TO PAGE 70, STEP 182,
| ENTRY POINT AD.

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MAP 0020-66

C C SYSTEM ENTRY MAP
S Z
6 6 PAPER ONLY
2 6
PAGE 67 OF 77

MAP 0020-67

| |
| |
| 173
| - SEE THE TWO CHANNEL SWITCH
| CONSOLE(S).
| - ENSURE THE TWO CHANNEL
| SWITCH(ES) ARE SET TO THE
| PROCESSING UNIT YOU ARE USING
| TO RUN THE DIAGNOSTIC(S).
|
|
| GO TO PAGE 46, STEP 110,
| ENTRY POINT AM.
|
174
- SEE THE ERROR MESSAGE(S).

IS MORE THAN ONE ATTACHMENT OR
DEVICE FAILING?

Y N

| |
| 175
| THERE IS ONLY ONE ERROR
| MESSAGE.
| ONLY ONE ATTACHMENT OR DEVICE
| IS FAILING.
| THE ATTACHMENT OR DEVICE
| FAILING AND THE TWO CHANNEL
| SWITCH AND ITS CABLES ARE
| SUSPECT
| GO TO PAGE 60, STEP 155,
| ENTRY POINT EI.

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D
A

MAP 0020-67

D SYSTEM ENTRY MAP
A
6 PAPER ONLY
7
PAGE 68 OF 77

MAP 0020-68

|
|
176
THERE IS MORE THAN ONE ERROR
MESSAGE.
MORE THAN ONE ATTACHMENT OR
DEVICE IS FAILING.

- SEE THE LOCATIONS OF THE
FAILING ATTACHMENTS OR DEVICES.
- SEE IF THEY ARE INSTALLED IN
ONE BOARD.
- SEE IF THEY ARE INSTALLED AS
COMMON I/O.

ARE ALL FAILURES AS NOTED ABOVE?

Y N

|
| 177
| THE FAILURES ARE NOT IN ONE
| BOARD.
| THE FAILURES ARE NOT ALL
| INSTALLED AS COMMON I/O.
| GO TO PAGE 60, STEP 154,
| ENTRY POINT ER.

|
178
THE FAILURES ARE IN ONE BOARD.
THE TWO CHANNEL SWITCH (TCS) AND
ITS CABLES ARE SUSPECT. IF A
CHANNEL REPOWER (CR) CARD AND ITS
CABLES ARE IN THE PATH TO THE
ERRORS, THE CHANNEL REPOWER (CR)
CARD AND ITS CABLES ARE SUSPECT.

- TEST THE TCS (CR) CARD CABLES.

DO THE TCS (CR) CABLES TEST
CORRECT?

Y N

| |
| |
| |
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B C

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MAP 0020-68

C D D SYSTEM ENTRY MAP
Q B C
6 6 6 PAPER ONLY
1 8 8
PAGE 69 OF 77

MAP 0020-69

| | |
| | |
| | 179
| | - REPAIR OR EXCHANGE THE
| | CABLES.
| | - VERIFY THE REPAIR
| |
| 180
| - EXCHANGE THE TCS (CR) CARD.
|
| IF NO REPAIR:
| GO TO PAGE 60, STEP 155,
| ENTRY POINT EI.
|
| 181
| GO TO PAGE 60, STEP 154,
| ENTRY POINT ER.

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MAP 0020-69

D SYSTEM ENTRY MAP
E
7 PAPER ONLY
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PAGE 71 OF 77

MAP 0020-71

|
|
183

- 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:

A ENTER OR RETURN
GO TO PAGE 47, STEP 112,
ENTRY POINT VT.

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MAP 0020-71

D SYSTEM ENTRY MAP
D
7 PAPER ONLY
0
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MAP 0020-72

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184
IN AUTO RUN, APPROXIMATELY 75% OF ALL ATTACHMENT AND DEVICE CIRCUIT(S) ARE TESTED BY DIAGNOSTIC(S) IN AUTO RUN.

SOME ATTACHMENTS OR DEVICE(S) MUST HAVE ALL MANUAL MAPS RUN TO COMPLETE THE TESTING, AS NOTED:

ATTACHMENT OR DEVICE	NOT TESTED AUTO RUN
COMMUNICATION	USER LINE CIRCUIT
DISK	WRITE CIRCUIT(S)
DISKETTE	WRITE CIRCUIT(S)
2 CHANNEL SW	2 PROCESSING UNIT
AN RPQ	SEE RPQ PROLOG.
NEW FEATURES	SEE THE PROLOG.

NOTE: SOME DEVICES HAVE OFFLINE TESTS. SEE PROLOG, SECTION 0.0 FOR LIST OF DIAGNOSTICS TO RUN FOR A COMPLETE TEST OF AN ATTACHMENT OR DEVICE.

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

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

IF YOU HAVE NOT TESTED AS NOTED IN THE CHART, ANSWER THE QUESTION 'NO'.

DID THE SYSTEM MAPS RUN CORRECT (NO ERRORS)?

Y N
| |
| |
| |

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4 3
D D
F G

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MAP 0020-72

D SYSTEM ENTRY MAP
G
7 PAPER ONLY
2
PAGE 73 OF 77

MAP 0020-73

|
|
185
THE SYSTEM IS IN AUTO MODE.
DO THE FOLLOWING TO ENTER INTO
'MANUAL' MODE.

- ENTER ON THE CONSOLE:

3 ENTER OR RETURN

- ENSURE THE CHARACTER PRINTED OR
DISPLAYED IS CORRECT AS THE KEY
IS PRESSED.

CAN YOU MAKE THE CORRECT KEYBOARD
ENTRY INTO THE SYSTEM?

Y N
|
| 186
| THE '3' KEY IS NOT WORKING.
| GO TO MAP 0023, ENTRY POINT CE.
|

187
- SEE THE MAP PROLOG OF THE
ATTACHMENT, DEVICE OR RPQ TO BE
RUN.

GO TO PAGE 30, STEP 067,
ENTRY POINT MM.

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MAP 0020-73

D SYSTEM ENTRY MAP
F
7 PAPER ONLY
2 PAGE 74 OF 77

MAP 0020-74

|
|
188
(ENTRY POINT ST)

- REMOVE THE DISKETTE, IF INSTALLED.
- INSTALL THE SYSTEM TEST DISKETTE.
- ENSURE THE 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.

DOES THE SYSTEM TEST RUN CORRECT (NO FAILURE)?

Y N

|
| 189
| - SEE THE ATTACHMENT OR DEVICE
| THAT IS FAILING.

| CAN YOU SEE WHICH ATTACHMENT OR
| DEVICE IS FAILING?

| Y N

|
| 190
| - USE THE SYSTEM TEST FAILURE
| AS THE FAILURE INDICATION.
| GO TO MAP 0070, ENTRY POINT
| A.

|
|
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D D
H J

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MAP 0020-74

D D SYSTEM ENTRY MAP
H J
7 7 PAPER ONLY
4 4
PAGE 75 OF 77

MAP 0020-75

| |
| |
| 191
| - 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

| |
| 192
| - REMOVE THE SYSTEM TEST
| DISKETTE.
| - INSTALL THE CORRECT
| DISKETTE.
| - ENSURE THE DISKETTE UNIT IS
| READY.
| GO TO PAGE 17, STEP 028,
| ENTRY POINT LK.

| 193
| GO TO MAP 0070, ENTRY POINT A.

194
THE SYSTEM TEST CANNOT FIND A
FAILURE.

- 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
| |
| |
| |
| |
| |
| |

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K L

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MAP 0020-75

D D SYSTEM ENTRY MAP
K L
7 7 PAPER ONLY
5 5 PAGE 76 OF 77

MAP 0020-76

| |
| |
| 195
| SEE THE PROCESSING UNIT MAP.
| IT WILL TEST THE PUSHBUTTON(S)
| AND SWITCHES ON THE PROGRAMMER
| AND BASIC CONSOLE. IF A
| PROGRAMMER CONSOLE IS NOT
| INSTALLED ON THE SYSTEM, OBTAIN
| THE C E CONSOLE AND USE IT FOR
| THE TEST.

| GO TO MAP 2070, ENTRY POINT KB.

|
196
- SEE IF THERE IS AN INTERMITTENT
 FAILURE.
- SEE IF THERE IS A REPORTED
 FAILURE.

IF THERE IS A FAILURE AS NOTED,
ANSWER THE QUESTION 'NO'.

DOES THE SYSTEM TEST RUN CORRECT
(NO FAILURE)?

Y N

|
| 197
| YOU SUSPECT A FAILURE ON THE
| SYSTEM.
| GO TO PAGE 30, STEP 067,
| ENTRY POINT MM.

|
198
- RETURN THE SYSTEM TO THE
 CUSTOMER.

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MAP 0020-76

PAPER ONLY

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199

- USE DISKETTE AS NOTED IN THE TABLE TO RUN THE SYSTEM TEST STORAGE PARITY TEST. REFER TO MAP 0016 IF AN ERROR IS DETECTED.
- INSERT DISKETTE P/N 1635001.
- ENSURE THE DISKETTE UNIT IS READY.
- PRESS THE LOAD KEY.
- RUN STORAGE PARITY TEST.

IF THERE IS A FAILURE, SEE PROCESSOR PROLOG 2000.
 IF NO REPAIR, RETURN TO THIS MAP AND:
 GO TO PAGE 5, STEP 006,
 ENTRY POINT EL.

200

IF YOU WANT TO SAVE ONLY ONE ERROR LOG, GO TO THE CORRECT PROLOG AND FOLLOW DIRECTIONS.

IF YOU DO NOT KNOW THE ERROR LOG TO SAVE, RUN PROCESSOR AND OR ATTACHMENT/DEVICE ERROR LOG(S) AS INSTRUCTED IN THE CORRECT PROLOG(S).

IF NO REPAIR, RETURN TO THIS MAP AND:

GO TO PAGE 5, STEP 006,
 ENTRY POINT EL.

201

GO TO MAP 0029, ENTRY POINT A.

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ERROR LOG FOR: | DISKETTE P/N
-----+-----
STORAGE PARITY | 1635003
-----

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-----
ERROR LOG FOR: | PROLOG | DISKETTE
-----+-----+-----
4954 PROCESSOR | 2000 | 1635003
4956 PROCESSOR | 2000 | 1635003
4952/4/6D DISK | 7C00 | 6235385
4952/4D DISKETTE | 4D00 | 6235385
4956D DISKETTE | 4D00 | 6235385
4965D DISK | 7C00 | 6235385
4965D DISKETTE | 4D00 | 6235385
4968 ATTACHMENT | 5900 | 6235256
4967 ATTACHMENT | 7B00 | 4750154
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