

MAP SEQUENCE ORDER

```

V      V 000 L      U  U M      M EEEEE
V      V 0  O L      U  U MM     MM E
V      V 0  O L      U  U M M M M E
V      V 0  O L      U  U M      M EEE
V      V 0  O L      U  U M      M E
V V    0  O L      U  U M      M E
V      000 LLLLL UUU M      M EEEEE

```

```

000 222 L
0 0 2 2 L
0 0 2 L
0 0 2 L
0 0 2 L
0 0 2 L
000 22222 LLLLL

```

```

IIIII N      N DDDD EEEEE X      X
I  NN      N D  D E      X  X
I  N N      N D  D E      X X
I  N N      N D  D EEE      X
I  N      N N D  D E      X X
I  N      NN D  D E      X  X
IIIII N      N DDDD EEEEE X      X

```

SERIES/1 DIAGNOSTIC VOLUME 02L INDEX

MAP 000A-2

MAP SEQUENCE ORDER

PAGE 2 OF 4

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MAP 000A-2

MAP SEQUENCE ORDER

PAGE 3 OF 4

MAP ID	SUBJECT
000A	VOLUME 02L INDEX
002X-003X	SYSTEM ENTRY
007X	CHANNEL ISOLATION
01XX	IPL - 4964
02XX	IPL - 4966
03XX	IPL - 4952, 4954, 4956 MODEL C OR 4965
04XX	IPL - 4952, 4954, 4956 OR 4965 MODEL D
05XX	IPL - 4956 MODELS G/H
10XX	CONSOLE
14XX	POWER
20XX	PROCESSOR
3871	MACHINE/PROGRAM CHECK
3DXX	FLOATING POINT
3EXX	TWO CHANNEL SWITCH
3FXX	PROGRAMMABLE TWO CHANNEL SWITCH
40XX	TTY ATTACHMENT
41XX	LOCAL COMMUNICATIONS CONTROLLER
44XX	4979 DISPLAY/ATTACHMENT
45XX	4978 DISPLAY/ATTACHMENT
48XX	4964 DISKETTE UNIT/ATTACHMENT
4AXX	4966 DISKETTE MAGAZINE/ATTACHMENT
4BXX	4952, 4954, 4956 MOD C OR 4965 DISKETTE UNIT/ATTACHMENT
4DXX	4952, 4954, 4956 OR 4965 MOD D DISKETTE UNIT/ATTACHMENT
50XX	TIMER
58XX	4969 TAPE UNIT/ATTACHMENT
59XX	4968 TAPE UNIT/ATTACHMENT
64XX	4974 PRINTER/ATTACHMENT
68XX	4973 PRINTER/ATTACHMENT
6AXX	5200 SERIES PRINTER ATTACHMENT
78XX	4962 DISK UNIT/ATTACHMENT
70XX	4956 MOD G/H/J OR 4965 MOD E DISKETTE UNIT/ATTACHMENT
71XX	4956 MOD G/H/J OR 4965 MOD E DISK UNIT/ATTACHMENT
7AXX	4963 DISK UNIT/ATTACHMENT
7BXX	4967 DISK UNIT/ATTACHMENT
7CXX	4952, 4954, 4956 OR 4965 MOD D DISK UNIT/ATTACHMENT

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MAP 000A-3

MAP SEQUENCE ORDER

PAGE 4 OF 4

MAP ID	SUBJECT
-----	-----
A0XX	IDIDO
A3XX	CUSTOMER DIRECT PROGRAM CONTROL ADAPTER
A4XX	4982 SENSOR I/O UNIT/ATTACHMENT
A8XX	4982 ANALOG INPUT
A9XX	4969 ANALOG OUTPUT
B0XX	4969 DIGITAL INPUT
B4XX	4969 DIGITAL OUTPUT
B8XX	RPQ D02535 POINT OF SALE (S-LOOP)
C0XX	RPQ D02761/D02762/D02763-CONTROLLER/STORAGE/MODEM
C4XX	MULTILINE COMMUNICATIONS CONTROLLER
C5XX	SERIES/1-CHANNEL ATTACHMENT
D8XX	SERIES/1-SYSTEM 370 CHANNEL ATTACHMENT
D9XX	SERIES/1-PERSONAL COMPUTER ATTACHMENT
E0XX	4987 ATTACHMENT
E1XX	4987 DEVICE/ATTACHMENT
E3XX	MULTI COMMUNICATION CONTROLLER
E4XX	5250 INFORMATION DISPLAY SYSTEM ATTACHMENT
E6XX	MULTIFUNCTION ATTACHMENT
E8XX	ACCA SINGLE LINE ATTACHMENT
E9XX	ACCA MULTILINE ATTACHMENT
EAXX	PROGRAMMABLE MULTILINE CONTROLLER
EBXX	TELEPHONE COMMUNICATIONS CONTROLLER
EDXX	RPQ T08000 ATTACHED PROCESSOR ATTACHMENT
FOXX	BSCA SINGLE LINE ATTACHMENT
F1XX	BSCA MULTILINE ATTACHMENT
F8XX	SDLC ATTACHMENT
F9XX	MULTIDROP WORK STATION ATTACHMENT
FCXX	SYNCHRONOUS COMMUNICATIONS SINGLE LINE CONTROLLER
FDXX	X.25 MULTILINE CONTROLLER
80XX	RPQ ATTACHMENTS
81XX	RPQ ATTACHMENTS
82XX	RPQ ATTACHMENTS

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MAP 000A-4

Sequence		Part	EC 374831	EC374831B			
02002A	1 of 2	6826693	7-1-78	3-16-79			

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Sequence		Part	EC 374831	EC374831B			
02002A	2 of 2	6826693	7-1-78	3-16-79			

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ENTRY POINTS

FROM	ENTER THIS MAP		

MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER

0021	ID	15	038
0022	A	2	001
0023	A	2	001
0023	ID	15	038
0023	PD	19	064
0027	A	2	001
0028	A	2	001
0029	A	2	001
0030	PD	19	064
0031	LK	14	028
0031	PI	13	024
2070	ID	15	038
2070	LK	14	028
2071	A	2	001
3871	A	2	001
3880	MM	24	081

EXIT POINTS

EXIT THIS MAP		TO	

PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT

18	062	E370	A
12	023	0021	A
18	056	0023	A
18	060	0023	A
18	063	0023	A
17	053	0023	AC
20	069	0023	CE
20	070	0023	CE
30	092	0023	CE
39	125	0023	CE
43	138	0023	CE
43	140	0023	CE
22	079	0024	A
12	020	0027	A
8	013	0028	A
20	071	0030	A
16	042	0031	A
30	097	0070	A
31	099	0070	A
32	111	0070	A
44	149	0070	A
45	152	0070	A
45	155	0070	A
46	159	0070	A
46	163	0070	A
18	058	0570	A
3	003	1470	A
5	007	1470	A
6	009	1470	A
13	025	2070	LL
43	144	2070	PR
46	161	2070	PR
13	027	2070	RK
42	135	3871	A
20	072	3880	A

EXIT POINTS

EXIT THIS MAP		TO	

PAGE	STEP	MAP	ENTRY
NUMBER	NUMBER	NUMBER	POINT

21	074	3880	A
21	076	3880	A

001
(ENTRY POINT A)

THIS MAP IS THE MAP AND ENTRY POINT TO BE USED TO ISOLATE ALL FAILURE(S).

IF SYSTEM HAS ERROR INDICATIONS:

- 1. RECORD ON/OFF STATUS OF LEDS. THE LED STATUS IS FOR USE IN FREELANCE MODE IF THESE MAPS DO NOT REPAIR THE PROBLEM.
- 2. IF FAILURE IS VISIBLE, SEE MAINTENANCE INFORMATION MANUAL AND CORRECT IT.

LOGIC CARD(S) HAVE MINIMUM AREA BETWEEN CARDS.
USE CAUTION WHEN CARD(S) ARE REMOVED AND INSTALLED.

- SEE IF ONE OF THE FOLLOWING IS INSTALLED ON THE SYSTEM:
- 4993 (370 CHANNEL ATTACHMENT)
- 4943 (CHANNEL ATTACHMENT)

IS A 4993/4943 INSTALLED ON THE SYSTEM?

Y N
| |
| |
| |
| |
| |
| |
5
9 3
A B

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MAP 0020-2

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) NOT
OPERATING.
2. 4999 POWER PROBLEM, IF
INSTALLED.

IS THE SYSTEM POWER GOOD?

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

| |
| |
| |
| |
| |

5 5
9 8 5
D E F

ERROR LOGGING IS USED BY:

4954	2000
4956 MOD B/D/E/G/H ONLY	2000
4952/4/6D OR	
4956-EXX DISK	7C00
4952/4/6D OR	
4956-EXX DISKETTE	4D00
MCA 5 1/4 DISKETTE	7000
MCA 5 1/4 DISK	7100
4965D DISK	7C00
4965D DISKETTE	4D00
4968 ATTACHMENT	5900
4967 ATTACHMENT	7B00
4973 PRINTER	6800
5200 PRINTER	6A00
LOCAL COMM CONTROLLER	4100
MULTIDROP WORK STATION	F900

SUSPECT A STORAGE PARITY ERROR
IF:

- THAT IS THE REPORTED ERROR
- THERE HAVE BEEN INTERMITTENT
ERRORS THAT DIAGNOSTICS HAVE
NOT FOUND.

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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.

6
G

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MAP 0020-5

G
5

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 DAY/NIGHT SWITCH TO THE 'NIGHT' POSITION, IF INSTALLED.
 - SET THE MODE SWITCH TO THE 'DIAGNOSTIC' SETTING.
 - POWER ON ALL THE MODULE(S) AND DEVICE(S).
 - SET POWER SWITCH FOR THE PROCESSING UNIT TO THE 'ON' POSITION.
 - SET THE DAY/NIGHT SWITCH TO THE 'DAY' POSITION IF INSTALLED.
 - 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 AT CONNECTOR P6 THE FOLLOWING DEVICES.

- 4952-D00 4956-E70
- 4954-D00 4956-60D
- 4965-D00 4956-30D
- 4956-31D 4956-E60
- 4956-61D 4956-60E

- USE LOGIC YB460 AS REFERENCE.

ARE THE DEVICE POWER LEDS OR VOLTAGES CORRECT?

Y N

009

GO TO MAP 1470, ENTRY POINT A.

7
H

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.

FOR THESE DEVICES 'POWER ON' DOES NOT EQUAL 'POWER GOOD' SOME VOLTAGES MAY BE MISSING.

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MAP 0020-6

L
7

SYSTEM ENTRY MAP

MAP 0020-8

PAPER ONLY

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012

- 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 2 DISKETTES)
6. 4952/4/6 MOD C DISKETTE
7. 4952/4/6 MOD D DISKETTE
8. 4956-EXX DISKETTE
9. MCA 5 1/4 DISKETTE
10. A MAINTENANCE LOAD DEVICE

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

013

GO TO MAP 0028, ENTRY POINT A.

9
M

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MAP 0020-8

017
 (ENTRY POINT GC)

A PROGRAMMER OR MAINTENANCE
 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.

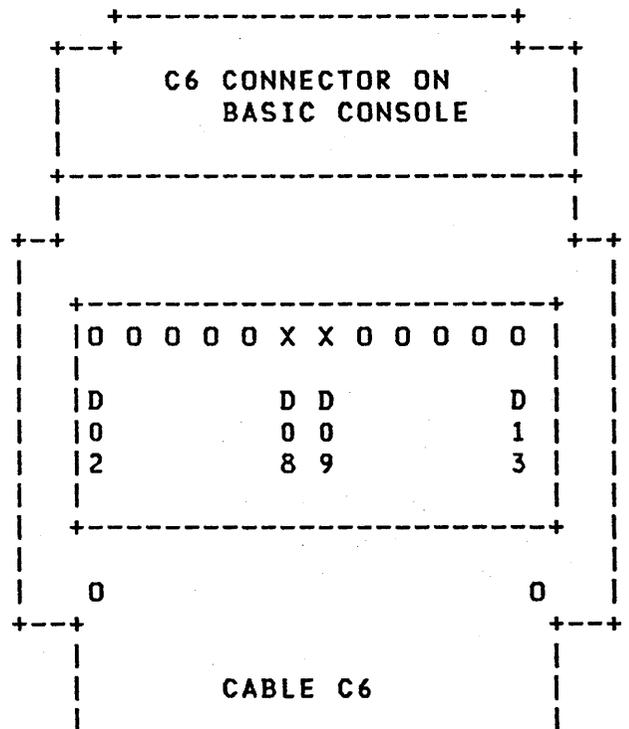
IS THE ACTION COMPLETE?

Y N

| 018
 | GO TO STEP 017,
 | ENTRY POINT GC.
 |
 |
 |
 |
 |
 |
 |
 |

1
 2
 S

C6 CABLE AND CONNECTOR
 (REAR VIEW)



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

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S SYSTEM ENTRY MAP
1
1 PAPER ONLY
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019

- SEE IF AN ALTERNATE CONSOLE WITH KEYBOARD IS INSTALLED

+-----+
| A SUPPORTED ALTERNATE
| CONSOLE WITH KEYBOARD IS: |
+-----+
| 1310 MULTIFUNCTION
| 31XX - 7485 - 4975
| 31XX DISPLAY (ACCA SL)
| 31XX DISPLAY (ACCA ML)
| 31XX DISPLAY (FPMLC)
| 31XX DISPLAY (TTY)
| 31XX DISPLAY (MCC)
| 4978 DISPLAY
| 4979 DISPLAY
| 4980 DISPLAY
| 7485 DISPLAY RPQ D02350
+-----+
| TTY ATTACHMENT DEVICE
+-----+
| 5251/5291 DISPLAY
+-----+

3151/3161 MUST BE IN 31XX MODE

IS A SUPPORTED ALTERNATE CONSOLE WITH KEYBOARD INSTALLED?

Y N

| 020
| GO TO MAP 0027, ENTRY POINT A.

021
GO TO PAGE 14, STEP 028,
ENTRY POINT LK.

Q MAP 0020-12
1
0

022

- SEE IF AN ALTERNATE CONSOLE WITH KEYBOARD IS INSTALLED

+-----+
| A SUPPORTED ALTERNATE
| CONSOLE WITH KEYBOARD IS: |
+-----+
| 1310 MULTIFUNCTION
| 31XX - 7485 - 4975
| 31XX DISPLAY (ACCA SL)
| 31XX DISPLAY (ACCA ML)
| 31XX DISPLAY (FPMLC)
| 31XX DISPLAY (TTY)
| 31XX DISPLAY (MCC)
| 4978 DISPLAY
| 4979 DISPLAY
| 4980 DISPLAY
| 7485 DISPLAY RPQ D02350
+-----+
| TTY ATTACHMENT DEVICE
+-----+
| 5251/5291 DISPLAY
+-----+

3151/3161 MUST BE IN 31XX MODE

IS A SUPPORTED ALTERNATE CONSOLE WITH KEYBOARD INSTALLED?

Y N

| 023
| GO TO MAP 0021, ENTRY POINT A.

| 30MAR87 PN1635011
1 ECA71494 PECA41061
3
T MAP 0020-12

T SYSTEM ENTRY MAP
 1
 2 PAPER ONLY
 | PAGE 13 OF 59
 |

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 LEDS - STORAGE |
+-----+
| POWER LED ON, DATA LEDS FFFF |
| CONSOLE IS SILENT (NO SOUND). |
+-----+
| IF 495X | AFTER 15 SECONDS: | | | |
| PROCESSOR | +-----+ |
| TYPE      | LEVEL|STOP |OTHER |
| MODEL     | |0 LED|LED  |LEDS  |
+-----+ +-----+ +-----+ +-----+
| 4952/53 ALL | ON | ON | OFF |
+-----+ +-----+ +-----+ +-----+
| 4956-E/H/J/K | ON | ON | OFF |
+-----+ +-----+ +-----+ +-----+
| 495X OTHER   | OFF | ON | OFF |
+-----+ +-----+ +-----+ +-----+
  
```

ARE ALL THE CONDITIONS MET?
 Y N

025
 GO TO MAP 2070, ENTRY POINT LL.

U

U MAP 0020-13

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:    |
+-----+
| POWER LED ON, DATA LED 0000 |
| CONSOLE IS SILENT (NO SOUND). |
+-----+
| TYPE      | STOP|LEVEL |OTHER |
| MODEL     | LED |0 LED |LEDS  |
+-----+ +-----+ +-----+ +-----+
| 4952/53 ALL | ON | ON | OFF |
+-----+ +-----+ +-----+ +-----+
| 4956-E/H/J/K | ON | ON | OFF |
+-----+ +-----+ +-----+ +-----+
| 495X OTHER   | ON | OFF | OFF |
+-----+ +-----+ +-----+ +-----+
  
```

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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1
 4
 V

MAP 0020-13

1
3 PAPER ONLY
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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.

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. TO IPL THE DIAGNOSTICS.

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 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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MAP 0020-14

1
4 PAPER ONLY

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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. 4952/4/6 MOD C DISKETTE
6. 4952/4/6 MOD D DISKETTE
7. 4956-EXX DISKETTE
8. MCA 5 1/4 DISKETTE
9. A MAINTENANCE LOAD DEVICE

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 IN PLACE ONE (1).
 - ENSURE THE DISKETTE UNIT IS READY.
- GO TO STEP 038,
ENTRY POINT ID.

036

- INSTALL THE 'BASIC' DIAGNOSTIC DISKETTE.
- ENSURE THE DISKETTE UNIT IS READY.

IS THE ACTION COMPLETE?

Y N

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

Y Z

| |
| |
| |
| |

| 037

- INSTALL THE 'BASIC' DIAGNOSTIC DISKETTE.
 - 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

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

1 1
9 6
A A
A B

30MAR87 PN1635011

ECA71494 PECA41061

A SYSTEM ENTRY MAP
B
1 PAPER ONLY
5 PAGE 16 OF 59

039
- 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
31XX:
- ANSWER THE QUESTION 'NO'.

A SUPPORTED ALTERNATE CONSOLE IS:
3101 DISPLAY
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 315X316X)?

Y N

040

IS THIS CONSOLE A 3161 ON A
4956 MODEL G90/H90?

Y N

1 | |
7
A A A
C D E

A A MAP 0020-16
D E

| |
| |
| |
| |
041
SEE IF THE ALTERNATE CONSOLE IS
A 315X/136X SETUP IN 31XX MODE.

TO CHECK THE 315X/316X SETUP:
- PRESS CTRL KEY AND SETUP KEY
AT SAME TIME

IF NOT SURE TAKE THE NO LEG
IS THE ALTERNATE CONSOLE AS
NOTED ABOVE?

Y N

042
THE DISPLAY MUST BE SETUP IN
31XX MODE. USE THE 315X/316X
DEFAULT SETUP.
GO TO MAP 0031,
ENTRY POINT A.

043
GO TO PAGE 17, STEP 047,
ENTRY POINT AP.

044
ENSURE THE SETUP CARTRIDGE IS
INSTALLED IN THE ALTERNATE
CONSOLE.

WAS THE CARTRIDGE INSTALLED?

Y N

045
DO NOT CONTINUE UNTIL THE
CARTRIDGE IS INSTALLED IN THE
ALTERNATE CONSOLE.
GO TO PAGE 14, STEP 028,
ENTRY POINT LK.

046
GO TO PAGE 17, STEP 049,
ENTRY POINT CR.

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MAP 0020-16

A SYSTEM ENTRY MAP
C
1 PAPER ONLY
6 PAGE 17 OF 59

047
(ENTRY POINT AP)

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

048
- POWER ON THE ALTERNATE CONSOLE.
GO TO PAGE 14, STEP 028,
ENTRY POINT LK.

049
(ENTRY POINT CR)

- SEE IF THE SUPPORTED ALTERNATE CONSOLE IS READY.

ON A DISPLAY TYPE ALTERNATE CONSOLE, THE CURSOR IS VISIBLE. ENSURE SWITCHES, IF INSTALLED, ARE CORRECT.

ON 315X/316X DISPLAY A MESSAGE ON LINE 25 INDICATES NOT READY.

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

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1 |
8
A A
F G

A MAP 0020-17
G

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|
050

- ENSURE THE ALTERNATE CONSOLE IS READY.

IS THE ALTERNATE CONSOLE READY?

Y N

051
- 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

052
- SEAT THE CARD OR CABLE.
GO TO PAGE 6, STEP 008,
ENTRY POINT PO.

053
THERE IS AN ALTERNATE CONSOLE PROBLEM.
GO TO MAP 0023, ENTRY POINT AC.

054
GO TO PAGE 14, STEP 028,
ENTRY POINT LK.

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MAP 0020-17

A SYSTEM ENTRY MAP
F
1 PAPER ONLY
7
PAGE 18 OF 59

055
- SEE THE TYPE LOAD DEVICE.

IS THE IPL DEVICE A MCA 5 1/4 INCH DISKETTE?

Y N

056

GO TO MAP 0023, ENTRY POINT A.

057

- LOCATE THE ATTACHMENT CARD FOR THE 5 1/4 INCH DISKETTE.
- LOCATE THE LED ON THIS ATTACHMENT CARD .
- POWER OFF THE UNIT CONTAINING THE MCA CARD.
- POWER ON THE UNIT AND SEE THE LED ON THE MCA CARD.

THE LED SHOULD COME ON WITH POWER ON AND GO OFF WITHIN 60 SECONDS AND REMAIN OFF.

DID THE LED ON THE ATTACHMENT CARD COME ON AND GO OFF AS DISCRIBED ABOVE?

Y N

058

THE MCA ATTACHMENT, CONTROL CARD OR CABLES ARE SUSPECT.

GO TO MAP 0570, ENTRY POINT A.

A
H

A MAP 0020-18
H
059

IS THE PROCESSOR UNIT A 4956 MODEL G90/H90?

Y N

060

- PRESS THE LOAD KEY.

GO TO MAP 0023, ENTRY POINT A.

061

- LOCATE THE MULTI-COMMUNICATION CONTROL ATTACHMENT CARDS
- LOCATE THE LED ON THESE ATTACHMENT CARDS.
- THE LED ON ALL MCC CARDS SHOULD BE OFF AT THIS TIME.

ARE ALL THE MCC LEDS OFF?

Y N

062

THE MCC ATTACHMENT WITH THE LED 'ON' IS THE SUSPECT CARD
GO TO MAP E370, ENTRY POINT A.

063

- PRESS THE LOAD KEY.

GO TO MAP 0023, ENTRY POINT A.

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MAP 0020-18

A
A
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5

SYSTEM ENTRY MAP

MAP 0020-19

PAPER ONLY

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|
|
064

(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' WITH DEVICE
TYPE 8X/9X 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 AND
IT'S DIAGNOSTICS MUST BE RUN IN
MANUAL MODE.

IS THE ALTERNATE CONSOLE MESSAGE
'RDY ENTER'?

Y N
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2 0
A A
J K

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 MAINTENANCE
CONSOLE IF INSTALLED, TO KEEP
MESSAGE(S) ON THE SCREEN.
- PRESS THE START KEY TO
CONTINUE.

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MAP 0020-19

A A SYSTEM ENTRY MAP
J Q
1 2 PAPER ONLY
9 1
PAGE 22 OF 59

MAP 0020-22

|
|
| 077
| - 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 STEP 078,
| ENTRY POINT IP.

078
(ENTRY POINT IP)

IF THE CUSTOMER CANNOT 'AUTO IPL'
THE PROCESSING UNIT, ANSWER THE
FOLLOWING QUESTION 'NO'.

IF THE CUSTOMER CANNOT 'IPL' THE
PROCESSING UNIT, ANSWER THE
FOLLOWING QUESTION 'NO'.

IS THE CUSTOMER IPL CORRECT?

Y N

| 079
| GO TO MAP 0024, ENTRY POINT A.

2
3
A
R

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MAP 0020-22

A SYSTEM ENTRY MAP
R
2 PAPER ONLY
2
PAGE 23 OF 59

|
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080

+-----+
| 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.

SOME ATTACHMENT CARDS HAVE A 'RED LED' TO INDICATE THE CONDITION OF THE CARD. THESE LEDS WILL COME ON WITH POWER ON AND GO OFF WITHIN 60 SECONDS. THESE LEDS MAY FLASH DURING A DIAGNOSTIC RUN. ANY LED THAT REMAINS ON OR FLASHES AT THIS TIME SHOULD BE CONSIDERED A SUSPECT CARD.

THE REMOTE POWER ON CARD FOR THE 4956 G90/H90 HAS FOUR (4) LEDS. SEE MAP E370 FOR A DISCRPTION OF THESE LEDS.

IF YOU SUSPECT THAT AN ATTACHMENT OR DEVICE IS FAILING, THE ATTACHMENT/DEVICE DIAGNOSTIC CAN BE RUN IN MANUAL MODE.

DO YOU WANT AN 'AUTO' MODE OF OPERATION?

Y N
| |
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| |

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8 4
A A
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A SYSTEM ENTRY MAP
T
2 PAPER ONLY
3 PAGE 24 OF 59

|
|
081
(ENTRY POINT MM)

MANUAL MODE:

IS THERE A SUSPECT ATTACHMENT OR
DEVICE YOU WANT TO TEST?

Y N

|

| 082

| IS THERE AN RPQ INSTALLED ON
| THE SYSTEM?

| Y N

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A MAP 0020-24
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083
YOU WANT TO RUN A DIAGNOSTIC IN
MANUAL MODE.

- GO TO THE MAP PROLOG, SECTION
0.0.

(STEP 083 CONTINUES)

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MAP 0020-24

2 2 |
7 6 |
A A A |
U V W |

PAPER ONLY

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(STEP 083 CONTINUED)

ENTER ATTACHMENT/DEVICE XXXX	DIAGNOSTIC:	DISKETTE DEV TYPE
2000	PROCESSOR, STORAGE	BASIC *
3D00	FLOATING POINT	D.T. 3D
3E00	TWO CHANNEL SWITCH	D.T. 3E
3F00	PROGRAMMABLE TCS	D.T. 3F
4000	TTY ATTACHMENT	D.T. 40
4100	SERIES 1 RING	D.T. 41
4400	4979 DISPLAY	D.T. 44
4500	4978 DISPLAY	D.T. 45
4800	4964 DISKETTE	D.T. 48
4A00	4966 DISKETTE	D.T. 4A
4B00	4965 4952/54/56C	D.T. 4B
4D00	4965D 4952/4/6D	D.T. 4D
4D00	4956-EXX DISKETTE	D.T. 4D
5000	TIMER	D.T. 50
5800	4969 MAGNETIC TAPE	D.T. 58
5900	4968 MAGNETIC TAPE	D.T. 59
6400	4974 PRINTER	D.T. 64
6800	4973 PRINTER	D.T. 68
6A00	5200 PRINTERS	D.T. 6A
7000	MCA 5 1/4 DISKETTE	D.T. 70
7100	MCA 5 1/4 DISK	D.T. 71
7800	4962 DISK	D.T. 78
7A00	4963 DISK	D.T. 7A
7B00	4967 DISK	D.T. 7B
7C00	4965D 4952/4/6D	D.T. 7C
7C00	4956-EXX DISK	D.T. 7C

ENTER ATTACHMENT/DEVICE XXXX	DIAGNOSTIC:	DISKETTE DEV TYPE
A000	INTEGRATED DI/DO	D.T. A0
A300	NON IBM EQUIPMENT	D.T. A3
A400	4982 SIO	D.T. A4
A800	ANALOG IN	D.T. A8
A900	ANALOG OUT	D.T. A9
B000	DIGITAL IN	D.T. B0
B400	DIGITAL OUT	D.T. B4
B800	POINT OF SALE	D.T. B8
C000	CONTROLLER-STORAGE	D.T. C4
C400	MULTILINE CONTROL	D.T. C4
C500	CHANNEL ATTACH	D.T. C5
D800	370 CHANNEL ATTACH	D.T. D8
D900	S1 TO P.C. ATTACH	D.T. D9
E000	4987 TP ATTACHMENT	D.T. E0
E100	4987 TP FEATURE	D.T. E1
E300	MULTI-COMM CONTROL	D.T. E3
E400	5251/5291 DISPLAY	D.T. E4
E600	1310 MULTIFUNCTION	D.T. E6
E800	ACCA SL	D.T. E8
E900	ACCA ML	D.T. E9
EA00	FPMLC	D.T. EA
EB00	TELEPHONE COMMUNIC	D.T. EB
ED00	ATTACHED PROCESSOR	D.T. ED
F000	BSCA SL	D.T. F0
F100	BSCA ML	D.T. F1
F800	SDLC	D.T. F8
F900	MULTIDROP WORK ST	D.T. F9
FC00	SYNC. COMM. HI SP.	D.T. FC
FD00	X 25 MLC ATTACH	D.T. FD
RPQ	SEE THE RPQ PROLOG	RPQ
	SECTION 0.0	RPQ

* IPL THIS DISKETTE ONLY.

GO TO PAGE 28, STEP 087,
ENTRY POINT MN.

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MAP 0020-25

A
V
2
4

SYSTEM ENTRY MAP

MAP 0020-26

PAPER ONLY

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|
|

084

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 28, STEP 087, ENTRY POINT MN.

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MAP 0020-26

A
U
2
4

SYSTEM ENTRY MAP

MAP 0020-27

PAPER ONLY

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|
|
085

- READ SECTION 0.0 OF MAP PROLOG
OF SUSPECT ATTACHMENT OR DEVICE
AND RETURN HERE.

```

+-----+
|ENTER ATTACHMENT/DEVICE|DISKETTE
|XXXX|  DIAGNOSTIC:      |DEV TYPE
|-----|-----|-----+
|2000|PROCESSOR, STORAGE|BASIC *
|3D00|FLOATING POINT     |D.T. 3D
|3E00|TWO CHANNEL SWITCH|D.T. 3E
|3F00|PROGRAMMABLE TCS  |D.T. 3F
|4000|TTY ATTACHMENT     |D.T. 40
|4100|SERIES 1 RING      |D.T. 41
|4400|4979 DISPLAY       |D.T. 44
|4500|4978 DISPLAY       |D.T. 45
|4800|4964 DISKETTE      |D.T. 48
|4A00|4966 DISKETTE      |D.T. 4A
|4B00|4965 4952/54/56C  |D.T. 4B
|4D00|4965D 4952/4/6D   |D.T. 4D
|4D00|4956-EXX DISKETTE |D.T. 4D
|5000|TIMER              |D.T. 50
|5800|4969 MAGNETIC TAPE|D.T. 58
|5900|4968 MAGNETIC TAPE|D.T. 59
|6400|4974 PRINTER       |D.T. 64
|6800|4973 PRINTER       |D.T. 68
|6A00|5200 PRINTERS      |D.T. 6A
|7000|MCA 5 1/4 DISKETTE|D.T. 70
|7100|MCA 5 1/4 DISK     |D.T. 71
|7800|4962 DISK          |D.T. 78
|7A00|4963 DISK          |D.T. 7A
|7B00|4967 DISK          |D.T. 7B
|7C00|4965D 4952/4/6D   |D.T. 7C
|7C00|4956-EXX DISK     |D.T. 7C
+-----+

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+-----+
|ENTER ATTACHMENT/DEVICE|DISKETTE
|XXXX|  DIAGNOSTIC:      |DEV TYPE
|-----|-----|-----+
|A000|INTEGRATED DI/DO  |D.T. A0
|A300|NON IBM EQUIPMENT |D.T. A3
|A400|4982 SIO          |D.T. A4
|A800|ANALOG IN         |D.T. A8
|A900|ANALOG OUT        |D.T. A9
|B000|DIGITAL IN        |D.T. B0
|B400|DIGITAL OUT       |D.T. B4
|B800|POINT OF SALE     |D.T. B8
|C000|CONTROLLER-STORAGE|D.T. C4
|C400|MULTILINE CONTROL |D.T. C4
|C500|CHANNEL ATTACH    |D.T. C5
|D800|370 CHANNEL ATTACH|D.T. D8
|D900|S1 TO P.C. ATTACH |D.T. D9
|E000|4987 TP ATTACHMENT|D.T. E0
|E100|4987 TP FEATURE   |D.T. E1
|E300|MULTI-COMM CONTROL|D.T. E3
|E400|5251/5291 DISPLAY |D.T. E4
|E600|1310 MULTIFUNCTION|D.T. E6
|E800|ACCA SL           |D.T. E8
|E900|ACCA ML           |D.T. E9
|EA00|FPMLC            |D.T. EA
|EB00|TELEPHONE COMMUNIC|D.T. EB
|ED00|ATTACHED PROCESSOR|D.T. ED
|F000|BSCA SL           |D.T. F0
|F100|BSCA ML           |D.T. F1
|F800|SDLC              |D.T. F8
|F900|MULTIDROP WORK ST |D.T. F9
|FC00|SYNC. COMM. HI SP.|D.T. FC
|FD00|X 25 MLC ATTACH  |D.T. FD
|RPQ |SEE THE RPQ PROLOG|  RPQ
|   |SECTION 0.0       |  RPQ
+-----+

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* IPL THIS DISKETTE ONLY.

(STEP 085 CONTINUES)

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MAP 0020-27

A
X
2
8

SYSTEM ENTRY MAP

MAP 0020-29

PAPER ONLY

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|
|

089

(ENTRY POINT RP)

THIS IS A GENERAL METHOD FOR LOADING MANUAL MODE MAPS. FOLLOW THIS PROCEDURE AND ANY SPECIAL INSTRUCTIONS IN DEVICE PROLOG, SECTION 0.0, TO CONTINUE TESTING.

- 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
0 0
A A
Y Z

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MAP 0020-29

B B SYSTEM ENTRY MAP
B C
3 3 PAPER ONLY
0 0
PAGE 31 OF 59

MAP 0020-31

| |
| |
| 098
| (ENTRY POINT EM)
| - SEE THE NOTE ---->
|
| THERE IS AN ERROR INDICATED BY
| A DIAGNOSTIC.
| - FOLLOW THE ERROR MESSAGE
| INSTRUCTION(S).
|
| IF THE MESSAGE WAS 'MCK' OR
| 'PCK' OR IF THERE WAS NO ERROR
| MESSAGE DISPLAYED:
| - EXCHANGE THE ATTACHMENT CARD
| OF THE ATTACHMENT/DEVICE THAT
| WAS RUNNING.
|
| IS THE SYSTEM REPAIRED?
| Y N
| |
| | 099
| | GO TO MAP 0070,
| | ENTRY POINT A.
| |
| 100
| - VERIFY THE REPAIR
|
101
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.

THE CONFIGURATION MUST BE CORRECT
CHECK CONFIGURATION TABLE AND
JUMPERS ON THE CARD UNDER TEST

ARE ALL THE MAP(S) FROM THE
PROLOG RUN?
Y N
| |
| |
| |
| |
| |
| |

3 3
2 2
B B
D E

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MAP 0020-31

B
K
3
3

SYSTEM ENTRY MAP

MAP 0020-34

PAPER ONLY

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114

- SELECT ATTACHMENT/DEVICE TO LOOP.

```

+-----+
|ENTER ATTACHMENT/DEVICE|DISKETTE
|XXXX|  DIAGNOSTIC:      |DEV TYPE
|-----|-----|-----+
|2000|PROCESSOR, STORAGE|BASIC *
|3D00|FLOATING POINT     |D.T. 3D
|3E00|TWO CHANNEL SWITCH|D.T. 3E
|3F00|PROGRAMMABLE TCS  |D.T. 3F
|4000|TTY ATTACHMENT     |D.T. 40
|4100|SERIES 1 RING      |D.T. 41
|4400|4979 DISPLAY       |D.T. 44
|4500|4978 DISPLAY       |D.T. 45
|4800|4964 DISKETTE     |D.T. 48
|4A00|4966 DISKETTE     |D.T. 4A
|4B00|4965 4952/54/56C  |D.T. 4B
|4D00|4965D 4952/4/6D   |D.T. 4D
|4D00|4956-EXX DISKETTE |D.T. 4D
|5000|TIMER              |D.T. 50
|5800|4969 MAGNETIC TAPE|D.T. 58
|5900|4968 MAGNETIC TAPE|D.T. 59
|6400|4974 PRINTER       |D.T. 64
|6800|4973 PRINTER       |D.T. 68
|6A00|5200 PRINTERS      |D.T. 6A
|7000|MCA 5 1/4 DISKETTE|D.T. 70
|7100|MCA 5 1/4 DISK   |D.T. 71
|7800|4962 DISK          |D.T. 78
|7A00|4963 DISK          |D.T. 7A
|7B00|4967 DISK          |D.T. 7B
|7C00|4965D 4952/4/6D   |D.T. 7C
|7C00|4956-EXX DISK     |D.T. 7C
+-----+

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+-----+
|ENTER ATTACHMENT/DEVICE|DISKETTE
|XXXX|  DIAGNOSTIC:      |DEV TYPE
|-----|-----|-----+
|A000|INTEGRATED DI/DO   |D.T. A0
|A300|NON IBM EQUIPMENT  |D.T. A3
|A400|4982 SID           |D.T. A4
|A800|ANALOG IN          |D.T. A8
|A900|ANALOG OUT         |D.T. A9
|B000|DIGITAL IN         |D.T. B0
|B400|DIGITAL OUT        |D.T. B4
|B800|POINT OF SALE      |D.T. B8
|C000|CONTROLLER-STORAGE|D.T. C4
|C400|MULTILINE CONTROL |D.T. C4
|C500|CHANNEL ATTACH     |D.T. C5
|D800|370 CHANNEL ATTACH|D.T. D8
|D900|S1 TO P.C. ATTACH |D.T. D9
|E000|4987 TP ATTACHMENT|D.T. E0
|E100|4987 TP FEATURE   |D.T. E1
|E300|MULTI-COMM CONTROL|D.T. E3
|E400|5251/5291 DISPLAY |D.T. E4
|E600|1310 MULTIFUNCTION|D.T. E6
|E800|ACCA SL           |D.T. E8
|E900|ACCA ML           |D.T. E9
|EA00|FPMLC             |D.T. EA
|EB00|TELEPHONE COMMUNIC|D.T. EB
|ED00|ATTACHED PROCESSOR|D.T. ED
|F000|BSCA SL           |D.T. F0
|F100|BSCA ML           |D.T. F1
|F800|SDLC              |D.T. F8
|F900|MULTIDROP WORK ST|D.T. F9
|FC00|SYNC. COMM. HI SP. |D.T. FC
|FD00|X 25 MLC ATTACH   |D.T. FD
|RPQ |SEE THE RPQ PROLOG| RPQ
|   |SECTION 0.0       | RPQ
+-----+

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* IPL THIS DISKETTE ONLY.

(STEP 114 CONTINUES)

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MAP 0020-34

SYSTEM ENTRY MAP

PAPER ONLY

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(STEP 114 CONTINUED)

IS THE ACTION COMPLETE?

Y N

| 115

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

| 116

- 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

| 117

| - 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 32, STEP 106,
| ENTRY POINT PM.

B
L

MAP 0020-35

118

GO TO PAGE 31, STEP 098,
ENTRY POINT EM.

B
L

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MAP 0020-35

B
J
3
3

SYSTEM ENTRY MAP

MAP 0020-36

PAPER ONLY

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119

- SELECT ATTACHMENT/DEVICE TO LOOP.

ENTER ATTACHMENT/DEVICE	DISKETTE
XXXX	DIAGNOSTIC: DEV TYPE
2000	PROCESSOR, STORAGE BASIC *
3D00	FLOATING POINT D.T. 3D
3E00	TWO CHANNEL SWITCH D.T. 3E
3F00	PROGRAMMABLE TCS D.T. 3F
4000	TTY ATTACHMENT D.T. 40
4100	SERIES 1 RING D.T. 41
4400	4979 DISPLAY D.T. 44
4500	4978 DISPLAY D.T. 45
4800	4964 DISKETTE D.T. 48
4A00	4966 DISKETTE D.T. 4A
4B00	4965 4952/54/56C D.T. 4B
4D00	4965D 4952/4/6D D.T. 4D
4D00	4956-EXX DISKETTE D.T. 4D
5000	TIMER D.T. 50
5800	4969 MAGNETIC TAPE D.T. 58
5900	4968 MAGNETIC TAPE D.T. 59
6400	4974 PRINTER D.T. 64
6800	4973 PRINTER D.T. 68
6A00	5200 PRINTERS D.T. 6A
7000	MCA 5 1/4 DISKETTE D.T. 70
7100	MCA 5 1/4 DISK D.T. 71
7800	4962 DISK D.T. 78
7A00	4963 DISK D.T. 7A
7B00	4967 DISK D.T. 7B
7C00	4965D 4952/4/6D D.T. 7C
7C00	4956-EXX DISK D.T. 7C

ENTER ATTACHMENT/DEVICE	DISKETTE
XXXX	DIAGNOSTIC: DEV TYPE
A000	INTEGRATED DI/DO D.T. A0
A300	NON IBM EQUIPMENT D.T. A3
A400	4982 SIO D.T. A4
A800	ANALOG IN D.T. A8
A900	ANALOG OUT D.T. A9
B000	DIGITAL IN D.T. B0
B400	DIGITAL OUT D.T. B4
B800	POINT OF SALE D.T. B8
C000	CONTROLLER-STORAGE D.T. C4
C400	MULTILINE CONTROL D.T. C4
C500	CHANNEL ATTACH D.T. C5
D800	370 CHANNEL ATTACH D.T. D8
D900	S1 TO P.C. ATTACH D.T. D9
E000	4987 TP ATTACHMENT D.T. E0
E100	4987 TP FEATURE D.T. E1
E300	MULTI-COMM CONTROL D.T. E3
E400	5251/5291 DISPLAY D.T. E4
E600	1310 MULTIFUNCTION D.T. E6
E800	ACCA SL D.T. E8
E900	ACCA ML D.T. E9
EA00	FPMLC D.T. EA
EB00	TELEPHONE COMMUNIC D.T. EB
ED00	ATTACHED PROCESSOR D.T. ED
FO00	BSCA SL D.T. FO
F100	BSCA ML D.T. F1
F800	SDLC D.T. F8
F900	MULTIDROP WORK ST D.T. F9
FC00	SYNC. COMM. HI SP. D.T. FC
FD00	X 25 MLC ATTACH D.T. FD
RPQ	SEE THE RPQ PROLOG RPQ
	SECTION 0.0 RPQ

* IPL THIS DISKETTE ONLY.

(STEP 119 CONTINUES)

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MAP 0020-36

PAPER ONLY

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(STEP 119 CONTINUED)

IS THE ACTION COMPLETE?

Y N

|

| 120

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

|

121

- TO LOOP ON A MAP:

- ENTER ON THE CONSOLE:

CXXX 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

|

| 122

| - 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 32, STEP 106,
| ENTRY POINT PM.

|

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|

|

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|

|

|

|

|

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|

|

|

|

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MAP 0020-37

3
8
B
M

A B SYSTEM ENTRY MAP
S M
2 3 PAPER ONLY
3 7
PAGE 38 OF 59

MAP 0020-38

| |
| |
| 123
| GO TO PAGE 31, STEP 098,
| ENTRY POINT EM.
|
124
(ENTRY POINT AM)

AUTO MODE:
RPQ DEVICE(S) ARE NOT TESTED IN
AUTO MODE.
THE 4978 RPQ DEVICE DIAGNOSTIC IS
RUN IN AUTO MODE BECAUSE IT CAN
BE ASSIGNED AS THE ALTERNATE
CONSOLE.
ALL OTHER RPQ'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:

2 ENTER OR RETURN
A ENTER OR RETURN

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

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).

WAS KEYBOARD ENTRY CORRECT?

Y N
| |
| |
| |
| |

3 3
9 9
B B
N P

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MAP 0020-38

B B SYSTEM ENTRY MAP
N P
3 3 PAPER ONLY
8 8
PAGE 39 OF 59

MAP 0020-39

| |
| |
| 125
| GO TO MAP 0023, ENTRY POINT CE.
|
126
(ENTRY POINT VT)

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.

- SEE THE NOTE --->

D2000 LOADED
ST = AUTO RUN STARTED

HAS THE AUTO RUN STARTED?

Y N

|
| 127
| - START THE AUTO RUN AND
| CONTINUE ON THE YES LEG.
|
|

4
0
B
Q

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MAP 0020-39

B
Q
3
9

SYSTEM ENTRY MAP

MAP 0020-40

PAPER ONLY

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128

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

ENTER ATTACHMENT/DEVICE	DISKETTE
XXXX	DIAGNOSTIC: DEV TYPE
2000	PROCESSOR, STORAGE BASIC *
3D00	FLOATING POINT D.T. 3D
3E00	TWO CHANNEL SWITCH D.T. 3E
3F00	PROGRAMMABLE TCS D.T. 3F
4000	TTY ATTACHMENT D.T. 40
4100	SERIES 1 RING D.T. 41
4400	4979 DISPLAY D.T. 44
4500	4978 DISPLAY D.T. 45
4800	4964 DISKETTE D.T. 48
4A00	4966 DISKETTE D.T. 4A
4B00	4965 4952/54/56C D.T. 4B
4D00	4965D 4952/4/6D D.T. 4D
4D00	4956-EXX DISKETTE D.T. 4D
5000	TIMER D.T. 50
5800	4969 MAGNETIC TAPE D.T. 58
5900	4968 MAGNETIC TAPE D.T. 59
6400	4974 PRINTER D.T. 64
6800	4973 PRINTER D.T. 68
6A00	5200 PRINTERS D.T. 6A
7000	MCA 5 1/4 DISKETTE D.T. 70
7100	MCA 5 1/4 DISK D.T. 71
7800	4962 DISK D.T. 78
7A00	4963 DISK D.T. 7A
7B00	4967 DISK D.T. 7B
7C00	4965D 4952/4/6D D.T. 7C
7C00	4956-EXX DISK D.T. 7C

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

(STEP 128 CONTINUES)

ENTER ATTACHMENT/DEVICE	DISKETTE
XXXX	DIAGNOSTIC: DEV TYPE
A000	INTEGRATED DI/DO D.T. A0
A300	NON IBM EQUIPMENT D.T. A3
A400	4982 SIO D.T. A4
A800	ANALOG IN D.T. A8
A900	ANALOG OUT D.T. A9
B000	DIGITAL IN D.T. B0
B400	DIGITAL OUT D.T. B4
B800	POINT OF SALE D.T. B8
C000	CONTROLLER-STORAGE D.T. C4
C400	MULTILINE CONTROL D.T. C4
C500	CHANNEL ATTACH D.T. C5
D800	370 CHANNEL ATTACH D.T. D8
D900	S1 TO P.C. ATTACH D.T. D9
E000	4987 TP ATTACHMENT D.T. E0
E100	4987 TP FEATURE D.T. E1
E300	MULTI-COMM CONTROL D.T. E3
E400	5251/5291 DISPLAY D.T. E4
E600	1310 MULTIFUNCTION D.T. E6
E800	ACCA SL D.T. E8
E900	ACCA ML D.T. E9
EA00	FPMLC D.T. EA
EB00	TELEPHONE COMMUNIC D.T. EB
ED00	ATTACHED PROCESSOR D.T. ED
F000	BSCA SL D.T. F0
F100	BSCA ML D.T. F1
F800	SDLC D.T. F8
F900	MULTIDROP WORK ST D.T. F9
FC00	SYNC. COMM. HI SP. D.T. FC
FD00	X 25 MLC ATTACH D.T. FD
RPQ	SEE THE RPQ PROLOG RPQ
	SECTION 0.0 RPQ

* IPL THIS DISKETTE ONLY.

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MAP 0020-40

C C SYSTEM ENTRY MAP
A B
4 4 PAPER ONLY
2 2
PAGE 43 OF 59

| |
| |
| 138
| THE ALTERNATE CONSOLE IS THE
| SUSPECT ATTACHMENT CARD.
| GO TO MAP 0023, ENTRY POINT CE.

|
139
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

| |
| 140
| THE ALTERNATE CONSOLE IS THE
| SUSPECT ATTACHMENT CARD.
| GO TO MAP 0023, ENTRY POINT CE.

|
141
- USE THE LAST 'XXXX LOADED'
MESSAGE AS THE 'SUSPECT
ATTACHMENT CARD'.
GO TO PAGE 24, STEP 081,
ENTRY POINT MM.

B B MAP 0020-43
V Z
4 4
1 2

| |
| |
| 142
| - SEE THE 'XXXX LOADED'
| MESSAGE.

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

| Y N

| |
| 143
| '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 24, STEP 081,
| ENTRY POINT MM.

| |
| 144
| THIS IS A POSSIBLE STORAGE
| PROBLEM.
| GO TO MAP 2070, ENTRY POINT PR.

|
145
GO TO PAGE 46, STEP 167,
ENTRY POINT AE.

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MAP 0020-43

146
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

147
- SEE IF THERE ARE 'XXXX LOADED' MESSAGES ON THE ALTERNATE CONSOLE.

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

Y N

148
- SEE IF THE ALTERNATE CONSOLE IS A DISPLAY TYPE CONSOLE.

IS THE ALTERNATE CONSOLE AS NOTED?

Y N

149
THE ALTERNATE CONSOLE ATTACHMENT CARD IS THE 'SUSPECT ATTACHMENT' CARD. GO TO MAP 0070, ENTRY POINT A.

4 4
6 5
C C C
C D E

150
THE ALTERNATE CONSOLE IS A DISPLAY TYPE DEVICE. THE SCREEN DOES NOT HAVE A MESSAGE ON IT.

IS A PROGRAMMER OR MAINTENANCE CONSOLE INSTALLED?

Y N

151
- 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

4 4 4
5 5 5
C C C
F G H

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C C SYSTEM ENTRY MAP
L M
4 4 PAPER ONLY
5 5
PAGE 46 OF 59

| |
| |
| 158
| '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

| | 159
| | GO TO MAP 0070,
| | ENTRY POINT A.

| | 160
| | - VERIFY THE REPAIR

| 161
| THIS IS A POSSIBLE STORAGE
| PROBLEM.
| GO TO MAP 2070, ENTRY POINT PR.

B B C MAP 0020-46
R S C
4 4 4
1 1 4

| | |
| | |
| | 162
| | - FOLLOW THE ERROR MESSAGE
| | INSTRUCTION(S).

| | IS THE PROBLEM REPAIRED?
| | Y N

| | | 163
| | | GO TO MAP 0070,
| | | ENTRY POINT A.

| | | 164
| | | - VERIFY THE REPAIR

| | 165
| | GO TO MAP 3871, ENTRY POINT A.

| 166
| 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

| | 167
| | (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

5 4 4 30MAR87 PN1635011
3 8 7 ECA71494 PECA41061
C C C
N P Q MAP 0020-46

C
Q
4
6

SYSTEM ENTRY MAP

MAP 0020-47

PAPER ONLY

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|
|
168
(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.

IS A FRU CALLED OUT IN THE FIRST ERROR MESSAGE?

Y N

|
| 169

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

| Y N

| |
| | 170
| | (ENTRY POINT EI)

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

| | - IF A TEST FAILED IN AUTO MODE, RUN THE SAME TEST IN MANUAL MODE

| | GO TO PAGE 29, STEP 089, ENTRY POINT RP.

| |
| | 171
| | GO TO MAP 3871, ENTRY POINT A.

|
172
GO TO STEP 170,
ENTRY POINT EI.

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MAP 0020-47

C
P
4
6

SYSTEM ENTRY MAP

MAP 0020-48

PAPER ONLY

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|
|
173

- SEE IF DIAGNOSTIC 3E00 OR 3F00
PRINTED OR DISPLAYED AN ERROR
MESSAGE.

DID DIAGNOSTIC 3E00 OR 3F00 HAVE
AN ERROR?

Y N

|
| 174

| - SEE THE NOTE --->
| - SEE THE TWO CHANNEL SWITCH
| CONSOLE LED(S). SEE IF THE
| TWO CHANNEL SWITCH IS
| CONNECTED TO THE PROCESSING
| UNIT YOU ARE USING TO RUN THE
| DIAGNOSTIC(S).

| IF YOU ARE USING PROCESSING
| UNIT 'A', THE CONN 'A' LED WILL
| BE ON.

| IF YOU ARE USING PROCESSING
| UNIT 'B', THE CONN 'B' LED WILL
| BE ON.

| IN THE FOLLOWING QUESTION,
| THERE MAY BE MORE THAN ONE (1)
| TWO CHANNEL SWITCH INSTALLED ON
| THE SYSTEM. THE QUESTION MUST
| BE ANSWERED FOR THE TWO CHANNEL
| SWITCH CARD(S) INSTALLED ON THE
| SYSTEM.

| SEE IF THE TWO CHANNEL
| SWITCH(ES) ARE CONNECTED TO THE
| PROCESSING UNIT YOU ARE USING.

| IS/ARE THE SWITCH(ES) CONNECTED
| TO THE PROCESSING UNIT YOU ARE
| USING?

| Y N

5 5 4
2 1 9
C C C
R S T

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 0020-48

C C SYSTEM ENTRY MAP
S Z
4 5 PAPER ONLY
8 0
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| |
| |
| 185
| - 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 38, STEP 124,
| ENTRY POINT AM.

186
- SEE THE ERROR MESSAGE(S).

IS MORE THAN ONE ATTACHMENT OR
DEVICE FAILING?

Y N

| 187
| 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 47, STEP 170,
| ENTRY POINT EI.

D
A

D MAP 0020-51
A

| |
| |
| 188
| THERE IS MORE THAN ONE ERROR
| MESSAGE.
| MORE THAN ONE ATTACHMENT OR
| DEVICE IS FAILING.

- SEE THE LOCATIONS OF THE
FADING 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

| 189
| THE FAILURES ARE NOT IN ONE
| BOARD.
| THE FAILURES ARE NOT ALL
| INSTALLED AS COMMON I/O.
| GO TO PAGE 47, STEP 168,
| ENTRY POINT ER.

190
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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5 5

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D D

B C

MAP 0020-51

C D D SYSTEM ENTRY MAP
R B C
4 5 5 PAPER ONLY
8 1 1
PAGE 52 OF 59

MAP 0020-52

| | |
| | |
| | 191
| | - REPAIR OR EXCHANGE THE
| | CABLES.
| | - VERIFY THE REPAIR
| |
| 192
| - EXCHANGE THE TCS (CR) CARD.
|
| IF NO REPAIR:
| GO TO PAGE 47, STEP 170,
| ENTRY POINT EI.
|
193
GO TO PAGE 47, STEP 168,
ENTRY POINT ER.

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MAP 0020-52

- 195
- 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 39, STEP 126,
ENTRY POINT VT.

196
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	NOT TESTED
DEVICE	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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5 5

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D D

F G

MAP 0020-54

D SYSTEM ENTRY MAP
G
5 PAPER ONLY
4
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|
|
197
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

|
| 198
| THE '3' KEY IS NOT WORKING.
| GO TO MAP 0023, ENTRY POINT CE.
|

199
- SEE THE MAP PROLOG OF THE
ATTACHMENT, DEVICE OR RPQ TO BE
RUN.

GO TO PAGE 24, STEP 081,
ENTRY POINT MM.

D MAP 0020-55
F
5
4

|
|
200
(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 0016, 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

|
| 201
| - SEE THE ATTACHMENT OR DEVICE
| THAT IS FAILING.

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

| Y N

|
|
| 202
| - USE THE SYSTEM TEST FAILURE
| AS THE FAILURE INDICATION.
| GO TO MAP 0070, ENTRY POINT
| A.

|
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|

5 5 30MAR87 PN1635011
6 6 ECA71494 PECA41061
D D
H J MAP 0020-55

D D SYSTEM ENTRY MAP
H J
5 5 PAPER ONLY
5 5
PAGE 56 OF 59

| |
| |
| 203
| - 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

| | 204
| - REMOVE THE SYSTEM TEST
| DISKETTE.
| - INSTALL THE CORRECT
| DISKETTE.
| - ENSURE THE DISKETTE UNIT IS
| READY.
| GO TO PAGE 14, STEP 028,
| ENTRY POINT LK.

| | 205
| GO TO MAP 0070, ENTRY POINT A.

206
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
| |
| |
| |
| |
| |
| |
| |
| |

D D
K L

D D MAP 0020-56
K L

| |
| |
| |
| |
| 207
| 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 MAINTENANCE CONSOLE AND USE
| IT FOR THE TEST.

| GO TO MAP 2071, ENTRY POINT KB.

208
- 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

| | 209
| YOU SUSPECT A FAILURE ON THE
| SYSTEM.
| GO TO PAGE 24, STEP 081,
| ENTRY POINT MM.

210
- RETURN THE SYSTEM TO THE
CUSTOMER.

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MAP 0020-56

J K
7 7

SYSTEM ENTRY MAP

MAP 0020-57

PAPER ONLY

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211

THERE IS A PROGRAMMER CONSOLE
PROBLEM

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.

212

TEST THE BASIC CONSOLE LEDS.

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 0020-57

E
4

SYSTEM ENTRY MAP

MAP 0020-58

PAPER ONLY

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|
|
|
|
213

- 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 'BASIC' DIAGNOSTIC DISKETTE.
- 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.

ERROR LOG FOR: | DISKETTE
-----+-----
STORAGE PARITY | SYSTEM TEST

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MAP 0020-58

A D
2 4

SYSTEM ENTRY MAP

MAP 0020-59

PAPER ONLY

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214

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, IPL THE SYSTEM
TEST DISKETTE AND FOLLOW THE
INSTRUCTION IN MAP0019.

IF NO REPAIR, RETURN TO THIS
MAP AND:

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

215

GO TO MAP 0029, ENTRY POINT A.

ERROR LOG FOR:	PROLOG
4954 PROCESSOR	2000
4956 PROCESSOR	2000
4952/4/6D 4956-EXX DISK	7C00
4952/4/6D 4956-EXX DSKETTE	4D00
4965D DISK	7C00
4965D DISKETTE	4D00
4968 ATTACHMENT	5900
4967 ATTACHMENT	7B00
4973 PRINTER	6800
5200 PRINTER	6A00
LOCAL COMM CONTROLLER	4100
MCA 5 1/4 DISKETTE	7000
MCA 5 1/4 DISK	7100
MULTIDROP WORK STATION	F900

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MAP 0020-59

PROGRAMMER OR C E CONSOLE INPUT.

MAP 0021-1

PAPER ONLY

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ENTRY POINTS

FROM	ENTER THIS MAP		

MAP	ENTRY	PAGE	STEP
NUMBER	POINT	NUMBER	NUMBER

0020	A	2	001
0020	PM	24	107
0020	ST	40	171

EXIT POINTS

EXIT THIS MAP		TO	

PAGE	STEP	MAP	ENTRY
NUMBER	NUMBER	NUMBER	POINT

12	041	0020	ID
30	124	0022	A
22	089	0022	PA
8	025	0070	A
12	039	0070	A
15	057	0070	A
24	100	0070	A
25	112	0070	A
33	138	0070	A
36	144	0070	A
36	146	0070	A
40	173	0070	A
41	176	0070	A
41	182	0072	A
9	029	0170	A
15	058	0170	A
17	067	0170	A
9	028	2070	A
7	022	2070	DL
2	002	2070	LL
33	134	2070	PC
36	145	2070	PR
9	030	2070	PW
2	004	2070	RK
12	040	3871	A
36	147	3871	A
12	044	3880	A
12	044	3880	A
12	045	3880	A
12	045	3880	A
13	047	3880	A
13	047	3880	A
15	059	4001	A

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MAP 0021-1

CONSOLE INPUT ENTRY

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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 |
| PROCESSOR    +-----+-----+-----+
| TYPE        | LEVEL | STOP  | OTHER |
| MODEL       | 0 LED | LED   | LEDS  |
|-----+-----+-----+-----+
| 4952/53 ALL | ON   | ON   | OFF  |
|-----+-----+-----+-----+
| 4956-E/H/J/K | ON   | ON   | OFF  |
|-----+-----+-----+-----+
| 495X OTHER   | OFF  | ON   | OFF  |
|-----+-----+-----+-----+
| POWER LED ON, DATA LEDS FFFF |
| CONSOLE IS SILENT (NO SOUND). |
+-----+

```

ARE ALL THE CONDITIONS MET?
Y N

002
GO TO MAP 2070, ENTRY POINT LL.

A

A

MAP 0021-2

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:         |
|-----+-----+-----+-----+
| PROCESSOR | LEVEL | STOP | OTHER |
| TYPE/MODEL | 0 LED | LEDS | LEDS  |
|-----+-----+-----+-----+
| 4952/53 ALL | ON   | ON   | OFF  |
|-----+-----+-----+-----+
| 4956E/H/J/K | ON   | ON   | OFF  |
|-----+-----+-----+-----+
| 495X OTHER   | OFF  | ON   | OFF  |
|-----+-----+-----+-----+
| POWER LED ON, DATA LEDS 0000 |
| 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.

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3
B

MAP 0021-2

B
2

CONSOLE INPUT ENTRY

PAPER ONLY

PAGE 3 OF 41

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

4 4
C D E F

E F

MAP. 0021-3

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 0021-3

D
3

CONSOLE INPUT ENTRY

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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 3, STEP 005, ENTRY POINT LK.

G

C G
3

MAP 0021-4

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.
- ENSURE THE DISKETTE UNIT IS READY.

GO TO PAGE 5, STEP 017, ENTRY POINT ID.

5
H

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MAP 0021-4

H
4

CONSOLE INPUT ENTRY

PAPER ONLY

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015

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

IS THE ACTION COMPLETE?

Y N

016

- INSTALL THE 'BASIC' DIAGNOSTIC DISKETTE.
- ENSURE THE DISKETTE UNIT IS READY.
- GO TO STEP 017, ENTRY POINT ID.

017

(ENTRY POINT ID)

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

THE FOLLOWING DIAGNOSTIC(S) WILL BE RUN:

1. IPL MICRO DIAGNOSTIC.
2. MINIMUM PROCESSING UNIT DIAGNOSTIC(S).

WAIT TWO (2) MINUTES FOR THE IPL AND PROCESSING UNIT DIAGNOSTICS TO RUN. THE PROGRAMMER CONSOLE WILL DISPLAY '38XX' IN THE LEDS, WITH THE STOP LED OFF.

DO THE DATA LEDS EQUAL '38XX', WITH THE STOP LED OFF?

Y N

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

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9 6

J K

P
6

CONSOLE INPUT ENTRY

MAP 0021-7

PAPER ONLY

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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 RESET KEY.
- 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

| |
| |
| |
| |
| |

8 8

Q R

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MAP 0021-7

Q R
7 7

CONSOLE INPUT ENTRY

MAP 0021-8

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.
- 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 9, STEP 031,

ENTRY POINT DL.

NOTE:

IPL THESE DISKETTES ONLY:

BASIC DIAGNOSTIC DISKETTE.
SYSTEM TEST DISKETTE.

IF IPL IS NEEDED, INSERT THE
'BASIC' DIAGNOSTIC DISKETTE 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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MAP 0021-8

J L M N
5 6 6 6

CONSOLE INPUT ENTRY

MAP 0021-9

PAPER ONLY

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028

GO TO MAP 2070,
ENTRY POINT A.

029

THE DATA LEDS EQUAL '00E0' OR
'00E5'

- SEE THE NOTE ---->

GO TO MAP 0170,
ENTRY POINT A.

030

GO TO MAP 2070, ENTRY POINT PW.

031

(ENTRY POINT DL)

THE DATA LEDS EQUAL '38XX'.

DO THE DATA LEDS EQUAL '3800'?

Y N

032

- SEE THE DATA LEDS.

DO THE DATA LEDS EQUAL '382A'?

Y N

- ENSURE THE POLL JUMPERS ARE
CORRECT.

EVERY OTHER CARD POSITION MUST
HAVE A CARD INSTALLED, OR A POLL
JUMPER MUST BE INSTALLED FROM PIN
M11 TO PIN M12 IN ALL EMPTY CARD
POSITIONS.

- SEE MLD VOLUME ONE (1),
PROCESSING UNIT OR EXPANSION
LOGICS (AXXXX).

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MAP 0021-9

1 1 1
4 4 0
S T U

U
9

CONSOLE INPUT ENTRY

MAP 0021-10

PAPER ONLY

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033

- SEE THE DATA LEDS.

DO THE DATA LEDS EQUAL '3838'?

Y N

034

- SEE THE DATA LEDS.

DO THE DATA LEDS EQUAL '382X'
TO '386X'?

Y N

035

THE DATA LEDS EQUAL '380X' TO
'381X'.

DO THE DATA LEDS EQUAL
'3801'?

Y N

036

- SEE THE DATA LEDS.

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

Y N

037

- SEE THE DATA LEDS.

DO THE DATA LEDS EQUAL
'380D'?

Y N

1

1 1 1 1 1 1
3 2 2 2 2 A
V W X Y Z A

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MAP 0021-10

A
A
1
0

CONSOLE INPUT ENTRY

MAP 0021-11

PAPER ONLY

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|
|
038

- SEE THE DCP HALT LIST BELOW.
FOR A DESCRIPTION OF THE HALTS,
SEE MAP 0013, 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.
3810	NO ANSWER EXPECTED	ATTEMPT THE COMMAND 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 0021-11

W X Y Z CONSOLE INPUT ENTRY
1 1 1 1
0 0 0 0 PAPER ONLY

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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
3
A A A
B C D

A A
C D

MAP 0021-12

044

THERE ARE CONFIGURATION
ERROR(S) ON THE SYSTEM.
GO TO MAP 3880, ENTRY POINT A.

IF THE OUTPUT DEVICE IS A:
DISPLAY WITH NO KEYBOARD:
PRINTER WITH NO KEYBOARD:
GO TO MAP 3880, ENTRY POINT A.

045

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

THE DISKETTE HAS NEVER BEEN
CONFIGURED.

GO TO MAP 3880, ENTRY POINT A.

IF THE OUTPUT DEVICE IS A:
DISPLAY WITH NO KEYBOARD:
PRINTER WITH NO KEYBOARD:
GO TO MAP 3880, ENTRY POINT A.

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MAP 0021-12

A CONSOLE INPUT ENTRY
B
1 PAPER ONLY
2
PAGE 13 OF 41

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 3880, ENTRY POINT A.

|
| IF THE OUTPUT DEVICE IS A:
| DISPLAY WITH NO KEYBOARD:
| PRINTER WITH NO KEYBOARD:
| GO TO MAP 3880, ENTRY POINT A.

|
048

- ENTER ON THE CONSOLE:

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

GO TO PAGE 9, STEP 031,
ENTRY POINT DL.

V MAP 0021-13
1
0

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 9, STEP 031,
ENTRY POINT DL.

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MAP 0021-13

S T
9 9

CONSOLE INPUT ENTRY

PAPER ONLY

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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 9, 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

| |
| |
| |
| |

1 |

9 |

A A

E F

A
F

MAP 0021-14

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

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

1 1 1

7 6 5

A A A

G H J

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PECA40740

MAP 0021-14

A
J
1
4

CONSOLE INPUT ENTRY

PAPER ONLY

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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 COMMUNICATION 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 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

A A A A
K L M N

A A A A
K L M N

MAP 0021-15

057

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.

058

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.

059

GO TO MAP 4001, ENTRY POINT A.

060

- GO TO THE IPL MAP FOR THE COMMUNICATION ATTACHMENT.

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MAP 0021-15

A H 1 4 | CONSOLE INPUT ENTRY

PAPER ONLY

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061 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

062

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

DOES THE DISKETTE UNIT IPL CORRECT?

Y N

063

- 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

1 |
7 |
A A
P Q

A Q MAP 0021-16

064 (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

065

- 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

066 THE CUSTOMER DISKETTE IS SUSPECT.
GO TO STEP 064,
ENTRY POINT DC.

1 |
7 |
A A
R S

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ECA40867 PECA40740
MAP 0021-16

A CONSOLE INPUT ENTRY
E
1 PAPER ONLY
4
PAGE 19 OF 41

|
|
077

+-----+
| 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.

SOME ATTACHMENT CARDS HAVE A 'RED LED' TO INDICATE THE CONDITION OF THE CARD. THESE LEDS WILL COME ON WITH POWER ON AND GO OFF WITHIN 60 SECONDS. THESE LEDS MAY FLASH DURING A DIAGNOSTIC RUN. ANY LED THAT REMAINS ON OR FLASHES AT THIS TIME SHOULD BE CONSIDERED A SUSPECT CARD.

THE REMOTE POWER ON CARD FOR THE 4956 G90/H90 HAS FOUR (4) LEDS. SEE MAP E370 FOR A DISCRPTION OF THESE LEDS.

IF YOU SUSPECT THAT AN ATTACHMENT OR DEVICE IS FAILING, THE ATTACHMENT/DEVICE DIAGNOSTIC CAN BE RUN IN MANUAL MODE.

DO YOU WANT AN 'AUTO' MODE OF OPERATION?

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

2 2
7 0
A A
Y Z

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B
B
2
0

CONSOLE INPUT ENTRY

MAP 0021-21

PAPER ONLY

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|
|
086

- 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 3CX:

- 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
| |
| |
| |

2 2
2 2
B B
C D

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MAP 0021-21

B B CONSOLE INPUT ENTRY
C D
2 2 PAPER ONLY
1 1
PAGE 22 OF 41

087
- 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|  
|-----+-----
```

088
- SEE IF A PROGRAMMER OR C E CONSOLE IS THE OUTPUT DEVICE.

IS A PROGRAMMER OR C E CONSOLE THE OUTPUT DEVICE?
Y N

089
A PRINTER OR DISPLAY WITHOUT A KEYBOARD IS THE OUTPUT DEVICE.
GO TO MAP 0022, ENTRY POINT PA.

090
- WAIT FOR THE ATTACHMENT OR DEVICE MAP TO RUN.
- SEE THE DATA LEDS.

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

Y N
| |
| |
| |
| |
| |
| |
| |
| |
2 |
4 |
B B
E F

B MAP 0021-22
F

091
(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
| |
| |
| |
| |
| |
| |
| |
| |
2 2
3 3
B B
G H

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ECA40867 PECA40740
MAP 0021-22

B B CONSOLE INPUT ENTRY
G H
2 2 PAPER ONLY
2 2
PAGE 23 OF 41

092
- 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

093
- 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

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

B
J

B MAP 0021-23
J

095
(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

096
GO TO PAGE 22, STEP 091,
ENTRY POINT EB.

097
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.
(XXXX = MAP SELECTED)

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

IS THE SYSTEM REPAIRED?
Y N

098
- SEE IF THERE IS A PROBLEM ON
THE SYSTEM.

IS THERE A PROBLEM AS NOTED?
Y N

| |
| |
| |

30JUL86 PN6060915
2 2 2
4 4 4 ECA40867 PECA40740
B B B
K L M MAP 0021-23

B B B B CONSOLE INPUT ENTRY
E K L M
2 2 2 2 PAPER ONLY
2 3 3 3

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| | | |

| | | 099
| | | GO TO STEP 107,
| | | ENTRY POINT PM.

| | | |

| | | 100
| | | GO TO MAP 0070,
| | | ENTRY POINT A.

| | | |

| | | 101
| | | - VERIFY THE REPAIR

| | | |

| | | 102
| | | 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

| | | |

| | | 103
| | | - SEE WHICH MAP(S) HAVE TO BE
| | | RUN FOR A COMPLETE TEST OF
| | | THE ATTACHMENT OR DEVICE.
| | | GO TO PAGE 20, STEP 084,
| | | ENTRY POINT MM.

| | | |

| | | 104
| | | - SEE IF THE DIAGNOSTICS HAVE
| | | BEEN RUN IN 'AUTO' MODE.

| | | HAVE THE DIAGNOSTICS BEEN RUN IN
| | | 'AUTO' MODE?

| | | Y N

| | | |

| | | 105
| | | GO TO PAGE 27, STEP 119,
| | | ENTRY POINT AM.

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B MAP 0021-24
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106
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

| | | 107
| | | (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

| | | |

| | | 108

| | | GO TO PAGE 40, STEP 171,
| | | ENTRY POINT ST.

| | | |

| | | 109

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

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

| | | Y N

| | | |

| | | 110

| | | GO TO PAGE 40, STEP 171,
| | | ENTRY POINT ST.

| | | |

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ECA40867 PECA40740

MAP 0021-24

8
Q
2
4

CONSOLE INPUT ENTRY

MAP 0021-25

PAPER ONLY

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|
|

111

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

DID THE 'PAPER' ONLY MAP REPAIR
THE FAILURE?

Y N

|

| 112

| GO TO MAP 0070, ENTRY POINT A.

|

113

- VERIFY THE REPAIR

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ECA40867 PECA40740

MAP 0021-25

B
P
2
4

CONSOLE INPUT ENTRY

MAP 0021-26

PAPER ONLY

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114

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

ENTER ATTACHMENT/DEVICE	DISKETTE
XXXX	DIAGNOSTIC: Labeled
2000	PROCESSOR, STORAGE BASIC
3D00	FLOATING POINT BASIC
3E00	TWO CHANNEL SWITCH BASIC
3F00	PROGRAMMABLE TCS 3F
4000	TTY ATTACHMENT 40
4100	SERIES 1 RING 41
4400	4979 DISPLAY 44
4500	4978 DISPLAY 45
4800	4964 DISKETTE 48
4A00	4966 DISKETTE 4A
4B00	4965 495XC DSKETTE 4B
4D00	4965D 4952/4/6D 4D
	4956-EXX DISKETTE 4D
5000	TIMER 50
5800	4969 MAGNETIC TAPE 58
5900	4968 MAGNETIC TAPE 59
6400	4974 PRINTER 64
6800	4973 PRINTER 68
6A00	5200 PRINTERS 6A
7000	MCA 5 1/4 DISKETTE 70
7100	MCA 5 1/4 DISK 71
7800	4962 DISK 78
7A00	4963 DISK 7A
7B00	4967 DISK 7B
7C00	4965D 4952/4/6D 7C
	4956-EXX DISK 7C
8100	3101 DISPLAY 81

ENTER ATTACHMENT/DEVICE	DISKETTE
XXXX	DIAGNOSTIC: Labeled
A000	INTEGRATED DI/DO A0
A300	NON IBM EQUIPMENT A3
A400	4982 SIO A4
A800	ANALOG IN A8
A900	ANALOG OUT A9
B000	DIGITAL IN B0
B400	DIGITAL OUT B4
B800	POINT OF SALE B8
C000	CONTROLLER-STORAGE C0
C400	MULTILINE CONTROL C4
C500	CHANNEL ATTACH C5
D800	370 CHANNEL ATTACH D8
D900	S/1 TO P.C. ATTACH D9
E000	4987 TP ATTACHMENT E0
E100	4987 TP FEATURE E1
E300	MULTI COMM CONTROL E3
E400	5251/5291 DISPLAY E4
E600	1310 MULTIFUNCTION E6
E800	ACCA SL E8
E900	ACCA ML E9
EA00	FPMLC EA
EB00	TELEPHONE COMMUNIC EB
ED00	ATTACHED PROCESSOR ED
F000	BSCA SL F0
F100	BSCA ML F1
F800	SDLC F8
F900	MULTIDROP WORK ST F9
FC00	SYNC. COMM. HI SP. FC
FD00	X 25 MLC ATTACH FD
RPQ	SEE THE RPQ PROLOG RPQ
	SECTION 0.0 RPQ

* IPL THIS DISKETTE ONLY.

(STEP 114 CONTINUES)

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MAP 0021-26

CONSOLE INPUT ENTRY

PAPER ONLY

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(STEP 114 CONTINUED)

DID YOU SELECT THE ATTACHMENT/DEVICE?

Y N

115

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

116

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

117

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 24, STEP 107, ENTRY POINT PM.

B R

A B

Y R

1

9

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MAP 0021-27

118
GO TO PAGE 23, STEP 095, ENTRY POINT EM.

119
(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

|

|

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|

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|

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2 2

9 8

B B

S T

ECA40867 PECA40740

MAP 0021-27

B
T
2
7

CONSOLE INPUT ENTRY

MAP 0021-28

PAPER ONLY

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120

- 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 0021-28

B
S
2
7

CONSOLE INPUT ENTRY

MAP 0021-29

PAPER ONLY

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121
(ENTRY POINT VL)

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

ENTER ATTACHMENT/DEVICE XXXX	DIAGNOSTIC:	DISKETTE Labeled
2000	PROCESSOR, STORAGE	BASIC
3000	FLOATING POINT	BASIC
3E00	TWO CHANNEL SWITCH	BASIC
3F00	PROGRAMMABLE TCS	3F
4000	TTY ATTACHMENT	40
4100	SERIES 1 RING	41
4400	4979 DISPLAY	44
4500	4978 DISPLAY	45
4800	4964 DISKETTE	48
4A00	4966 DISKETTE	4A
4B00	4965 495XC DSKETTE	4B
4D00	4965D 4952/4/6D	4D
	4956-EXX DISKETTE	4D
5000	TIMER	50
5800	4969 MAGNETIC TAPE	58
5900	4968 MAGNETIC TAPE	59
6400	4974 PRINTER	64
6800	4973 PRINTER	68
6A00	5200 PRINTERS	6A
7000	MCA 5 1/4 DISKETTE	70
7100	MCA 5 1/4 DISK	71
7800	4962 DISK	78
7A00	4963 DISK	7A
7B00	4967 DISK	7B
7C00	4965D 4952/4/6D	7C
	4956-EXX DISK	7C
8100	3101 DISPLAY	81

(STEP 121 CONTINUES)

ENTER ATTACHMENT/DEVICE XXXX	DIAGNOSTIC:	DISKETTE Labeled
A000	INTEGRATED DI/DO	A0
A300	NON IBM EQUIPMENT	A3
A400	4982 SIO	A4
A800	ANALOG IN	A8
A900	ANALOG OUT	A9
B000	DIGITAL IN	B0
B400	DIGITAL OUT	B4
B800	POINT OF SALE	B8
C000	CONTROLLER-STORAGE	C0
C400	MULTILINE CONTROL	C4
C500	CHANNEL ATTACH	C5
D800	370 CHANNEL ATTACH	D8
D900	S/I TO P.C. ATTACH	D9
E000	4987 TP ATTACHMENT	E0
E100	4987 TP FEATURE	E1
E300	MULTI COMM CONTROL	E3
E400	5251/5291 DISPLAY	E4
E600	1310 MULTIFUNCTION	E6
E800	ACCA SL	E8
E900	ACCA ML	E9
EA00	FPMLC	EA
EB00	TELEPHONE COMMUNIC	EB
ED00	ATTACHED PROCESSOR	ED
F000	BSCA SL	F0
F100	BSCA ML	F1
F800	SDLC	F8
F900	MULTIDROP WORK ST	F9
FC00	SYNC. COMM. HI SP.	FC
FD00	X 25 MLC ATTACH	FD
RPQ	SEE THE RPQ PROLOG	RPQ
	SECTION 0.0	RPQ

(STEP 121 CONTINUES)

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MAP 0021-29

(STEP 121 CONTINUED)

ARE THE ATTACHMENTS AND DEVICES
CIRCLED?

Y N

|

| 122

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

|

123

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

|

| 124

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

|

|

|

|

|

|

|

|

|

|

|

|

|

|

|

|

|

|

(STEP 121 CONTINUED)

+-----

* IPL THIS DISKETTE ONLY.

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MAP 0021-30

3
1
B
U

B
U
3
0

CONSOLE INPUT ENTRY
PAPER ONLY
PAGE 31 OF 41

125

- SEE THE DATA LEDS.

DO THE DATA LEDS EQUAL 3800?

Y N

126

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?

Y N

127

(ENTRY POINT NT)

- SEE IF THE DATA LEDS EQUAL
'3802' OR '3803'.

ARE THE DATA LEDS AS NOTED
ABOVE?

Y N

3 3 3
7 6 6
B B B B
V W X Y

B
Y

MAP 0021-31

128

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

3 3
4 2
B C
Z A

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MAP 0021-31

C C CONSOLE INPUT ENTRY
D E
3 3 PAPER ONLY
2 2
PAGE 33 OF 41

| |
| |
| 134
| GO TO MAP 2070, ENTRY POINT PC.

135
- GO TO THE PAPER MAP USING THE
MAP NUMBER NOTED.
- GO TO THE STEP NUMBER NOTED
FROM REGISTER ZERO (0).
- FOLLOW THE INSTRUCTIONS IN THE
STEP NUMBER.
- WAIT FOR THE AUTO RUN TO
COMPLETE.
- SEE IF THE DATA LEDS = 3800 OR
3805.

DO THE DATA LEDS = 3800 OR 3805?
Y N

| 136
| GO TO PAGE 32, STEP 129,
| ENTRY POINT EA.

C MAP 0021-33
F

|
|
|
| 137

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.
(XXXX = MAP SELECTED)

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

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

Y N

| 138
| GO TO MAP 0070, ENTRY POINT A.

139
- VERIFY THE REPAIR

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MAP 0021-33

C
F

C C C CONSOLE INPUT ENTRY
L M N
3 3 3 PAPER ONLY
6 6 6
PAGE 37 OF 41

150

- 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

151

GO TO PAGE 36,
STEP 148,
ENTRY POINT TO.

152

GO TO STEP 155,
ENTRY POINT PN.

153

GO TO PAGE 31, STEP 127,
ENTRY POINT NT.

154

THERE IS A TWO CHANNEL SWITCH
PROBLEM.

- PRESS THE STOP KEY.
- DISPLAY LEVEL THREE (3).
- PRESS REGISTER ZERO (0) KEY.
- GO TO THE MAP 3E00 STEP NUMBER
NOTED IN REGISTER ZERO (0).

B MAP 0021-37
V
3
1

155

(ENTRY POINT PN)

THIS DIAGNOSTIC DISKETTE RAN WITH
NO ERROR(S). THIS IS THE CORRECT
END OF THIS 'AUTO' RUN. MORE
THAN ONE DIAGNOSTIC DISKETTE CAN
BE WITH THE PROCESSING UNIT. SEE
IF ALL DIAGNOSTIC DISKETTE(S)
WITH THIS PROCESSING UNIT HAVE
BEEN RUN IN 'AUTO' MODE.

HAVE ALL DIAGNOSTIC DISKETTE(S)
BEEN RUN IN 'AUTO' MODE?

Y N

156

- 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

3 3 3
8 8 8
C C C
P Q R

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MAP 0021-37

C
V
3
8

CONSOLE INPUT ENTRY
PAPER ONLY
PAGE 39 OF 41

162
- 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

163
- SEE IF YOU WANT TO USE MANUAL
MODE TO TEST AN ATTACHMENT OR
DEVICE.

DO YOU WANT TO USE MANUAL MODE?
Y N

164
YOU DO NOT WANT TO TEST AN
ATTACHMENT OR DEVICE IN
MANUAL MODE.

- RUN THE SYSTEM TEST.
GO TO PAGE 40, STEP 171,
ENTRY POINT ST.

C C
W X

MAP 0021-39

C C C C
T U W X
3 3
8 8 | |

| | | 165
| | | GO TO STEP 168,
| | | ENTRY POINT MK.

| | | 166
| | | - SEE THE MAP PROLOG OF THE
| | | ATTACHMENT OR DEVICE.
| | | GO TO STEP 168,
| | | ENTRY POINT MK.

| | | 167
| | | - SEE THE MAP PROLOG OF THE RPQ
| | | ATTACHMENT OR DEVICE.
| | | GO TO STEP 168,
| | | ENTRY POINT MK.

168
(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

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4 4
0 0
C C
Y Z

MAP 0021-39

C C CONSOLE INPUT ENTRY
Y Z
3 3 PAPER ONLY
9 9
PAGE 40 OF 41

169

- 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|
-----+

170

- SEE THE MAP PROLOG OF THE ATTACHMENT, DEVICE, RPQ OR PROCESSING UNIT TEST TO BE RUN. GO TO PAGE 20, STEP 084, ENTRY POINT MM.

C MAP 0021-40
S
3
8

171

(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 0016, 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

172

- SEE THE ATTACHMENT OR DEVICE THAT IS FAILING.

CAN YOU SEE WHICH ATTACHMENT OR DEVICE IS FAILING?

Y N

173

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

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4 4

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1 1

D D

A B

MAP 0021-40

D D CONSOLE INPUT ENTRY
A B PAPER ONLY
4 4
0 0 PAGE 41 OF 41

174
- 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

175
GO TO PAGE 3, STEP 005,
ENTRY POINT LK.

176
GO TO MAP 0070, ENTRY POINT A.

177.
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

178
- 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

D C MAP 0021-41

179
- SEE IF THE SYSTEM IS CORRECT.

IS THE SYSTEM CORRECT (NO
PROBLEM)?

Y N

180
- SEE IF YOU SUSPECT AN
INTERMITTENT FAILURE ON THE
SYSTEM.

DO YOU SUSPECT AN INTERMITTENT
FAILURE ON THE SYSTEM?

Y N

181
THERE IS A PROBLEM ON THE
SYSTEM.

- USE THIS PROBLEM AS THE
ERROR INDICATION.

GO TO MAP 0070, ENTRY POINT A

182
YOU SUSPECT AN INTERMITTENT
FAILURE ON THE SYSTEM.

GO TO MAP 0072, ENTRY POINT A.

183
GOOD END THIS MAP.

- RETURN THE SYSTEM TO THE
CUSTOMER.

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MAP 0021-41

D
C

PAPER ONLY MAP

PAGE 1 OF 13

ENTRY POINTS

FROM	ENTER THIS MAP		

MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER

0020	A	2	001
0020	EM	5	012
0020	MM	8	025
0021	PA	9	027

EXIT POINTS

EXIT THIS MAP		TO	

PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT

4	011	0020	A
11	036	0021	PM
12	038	0021	PM
6	017	0021	ST
3	004	0070	A
5	012	0070	A
10	029	0070	A
10	030	0070	A
3	005	2070	PC

PAPER ONLY MAP

PAGE 2 OF 13

001
(ENTRY POINT A)

A PRINTER OR DISPLAY DEVICE (WITH NO KEYBOARD) IS THE OUTPUT CONSOLE.

A PROGRAMMER OR C E CONSOLE IS THE INPUT DEVICE.

- SEE THE MESSAGE(S) ON THE OUTPUT CONSOLE.

THERE WILL BE AN 'XXXX LOADED' MESSAGE FOR EACH ATTACHMENT/DEVICE TESTED. WHEN TESTING IS COMPLETE, THERE WILL BE A 'RDY ENTER' MESSAGE ON THE CONSOLE. THIS IS THE END OF A GOOD AUTO RUN.

IF THERE ARE ERROR MESSAGES ON THE CONSOLE, ANSWER THE QUESTION 'NO'.

- SEE IF THERE WAS AN ERROR FREE AUTO RUN.

WAS THE AUTO RUN ERROR FREE?

Y N

|

| 002

| - SEE IF THERE IS AN ERROR MESSAGE ON THE CONSOLE.

|

| IS THERE AN ERROR MESSAGE ON THE CONSOLE?

| Y N

5 3 3
A B C

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B C OUTPUT CONSOLE (NO KEYBOARD)

MAP 0022-3

2 2

PAPER ONLY MAP

PAGE 3 OF 13

003

THERE IS NO ERROR MESSAGE ON
THE CONSOLE.

- SEE THE DATA LEDS.

DO THE DATA LEDS EQUAL '2XXX'?

Y N

004

- SEE THE LAST 'XXXX LOADED'
MESSAGE.

- EXCHANGE THE ATTACHMENT
CARD(S) OF THE LAST 'XXXX
LOADED' MESSAGE.

IF NO REPAIR,
GO TO MAP 0070,
ENTRY POINT A.

005

GO TO MAP 2070, ENTRY POINT PC.

006

- 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?

Y N

007

GO TO PAGE 5, STEP 012,
ENTRY POINT EM.

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4
D

MAP 0022-3

3

PAPER ONLY MAP

| PAGE 4 OF 13

008

SEE IF THE ERROR DEVICE(S) ARE
INSTALLED AS 'COMMON I/O' TO THIS
PROCESSING UNIT.

ARE THE ERROR DEVICE(S) INSTALLED
AS 'COMMON I/O' TO THIS
PROCESSING UNIT?

Y N

| 009

| GO TO PAGE 5, STEP 012,
| ENTRY POINT EM.

010

- 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

| 011

| THE ERROR MESSAGE(S) ARE CAUSED
| BY THE TWO CHANNEL SWITCH BEING
| CONNECTED TO THE OTHER
| PROCESSING UNIT. TO DO A
| COMPLETE TEST, YOU MUST HAVE
| THE TWO CHANNEL SWITCH
| CONNECTED TO THIS PROCESSING
| UNIT WHEN YOU GET THE TWO
| CHANNEL SWITCH:
| GO TO MAP 0020, ENTRY POINT A.

5
E

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A E OUTPUT CONSOLE (NO KEYBOARD)

2 4

MAP 0022-5

PAPER ONLY MAP

PAGE 5 OF 13

012

(ENTRY POINT EM)

- FOLLOW THE ERROR MESSAGE INSTRUCTIONS.

IF NO REPAIR,
GO TO MAP 0070, ENTRY POINT A.

013

THIS IS THE CORRECT END OF THIS 'AUTO' RUN. MORE THAN ONE DIAGNOSTIC DISKETTE CAN BE WITH THE PROCESSING UNIT. SEE IF ALL DIAGNOSTIC DISKETTE(S) WITH THIS PROCESSING UNIT BEEN RUN IN 'AUTO' MODE.

HAVE ALL DIAGNOSTIC DISKETTE(S) BEEN RUN IN 'AUTO' MODE?

Y N

014

- REMOVE 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 DIAGNOSTIC DISKETTE TO BE RUN IN 'AUTO' MODE.
- ENSURE DISKETTE UNIT IS READY.

DO THE FOLLOWING TO RUN THE DISKETTE IN 'AUTO' MODE.

- ENTER ON THE CONSOLE:

(B) A (I) (I)

GO TO PAGE 2, STEP 001,
ENTRY POINT A.

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6
F

MAP 0022-5

5
PAPER ONLY MAP

| PAGE 6 OF 13

|
015
- SEE IF THERE IS AN RPQ
INSTALLED.

IS AN RPQ INSTALLED?

Y N

| 016
| - SEE IF THERE IS A PROBLEM ON
| THE SYSTEM.

| IS THERE A PROBLEM ON THE
| SYSTEM?

| Y N

| | 017
| | GO TO MAP 0021,
| | ENTRY POINT ST.

| 018
| GO TO PAGE 8, STEP 025,
| ENTRY POINT MM.

019
MANUAL MODE:

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

ARE ANY SUSPECT AS NOTED ABOVE TO
BE TESTED?

Y N

| 020
| - SEE IF AN RPQ IS INSTALLED.

| IS THERE AN RPQ INSTALLED?

| Y N

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

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7 7 7
G H J

G H J OUTPUT CONSOLE (NO KEYBOARD)
6 6 6

MAP 0022-7

PAPER ONLY MAP

PAGE 7 OF 13

021

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 8, STEP 025,
ENTRY POINT MM.

022

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

- READ SECTION 0.0 OF THE
PROLOG.

GO TO PAGE 8, STEP 025,
ENTRY POINT MM.

023

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

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

- READ SECTION 0.0 OF THE PROLOG.

DID YOU READ SECTION 0.0 OF THE
PROLOG?

Y N

024

- ENSURE THE DISKETTE UNIT IS
READY.

GO TO PAGE 8, STEP 025,
ENTRY POINT MM.

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8
K

MAP 0022-7

9 9 9

PAPER ONLY MAP

PAGE 10 OF 13

029

THERE IS NO ERROR MESSAGE ON THE OUTPUT CONSOLE.

- EXCHANGE THE ATTACHMENT CARD(S) OF THE ATTACHMENT/DEVICE TESTED.

IF NO REPAIR, GO TO MAP 0070, ENTRY POINT A.

030

- FOLLOW THE ERROR MESSAGE INSTRUCTIONS.

IF NO REPAIR, GO TO MAP 0070, ENTRY POINT A.

031

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

032

- SEE WHICH MAP(S) HAVE TO BE RUN FOR A COMPLETE TEST OF THE ATTACHMENT OR DEVICE.

GO TO PAGE 8, STEP 025, ENTRY POINT MM.

1
1
Q

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Q OUTPUT CONSOLE (NO KEYBOARD)

MAP 0022-11

1
0 PAPER ONLY MAP

| PAGE 11 OF 13

|
033
- SEE IF THE DIAGNOSTIC(S) HAVE
BEEN RUN IN 'AUTO' MODE.

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

Y N

|
034
| RUN THE DIAGNOSTIC(S) IN AUTO
| MODE AS FOLLOWS:

| - ENTER ON THE CONSOLE:

| -----
| (B) 2 (I) (I)
| (B) A (I) (I)

| GO TO PAGE 2, STEP 001,
| ENTRY POINT A.

035
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

|
036
| GO TO MAP 0021, ENTRY POINT PM.

1
2
R

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MAP 0022-11

1
1 PAPER ONLY MAP

| PAGE 12 OF 13
|

037
'LOOP' CAN BE RUN IN MORE THAN ONE WAY. SEE MAP 0010, SECTION 04.02.00.

FOR A 'LOOP ON MAP' ONLY, DO THE FOLLOWING.

- 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.

NOTE

SEE MAP 0012 FOR THE ATTACHMENT/DEVICE TABLE.

IF A FAILURE OCCURS, THE ERROR MESSAGE IS ON THE OUTPUT CONSOLE.

IS AN ERROR MESSAGE ON THE OUTPUT CONSOLE?

Y N

| 038
| - 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 MAP 0021, ENTRY POINT PM.

1
3
S

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MAP 0022-12

S OUTPUT CONSOLE (NO KEYBOARD)

MAP 0022-13

1
2 PAPER ONLY MAP

| PAGE 13 OF 13

|
|

039
GO TO PAGE 5, STEP 012,
ENTRY POINT EM.

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MAP 0022-13

PAPER ONLY

PAGE 1 OF 36

ENTRY POINTS

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

0020	A	2	001
0020	AC	4	015
0020	CE	20	093

EXIT POINTS

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

2	007	0020	A
4	014	0020	A
7	026	0020	A
21	098	0020	A
28	137	0020	A
3	012	0020	ID
3	010	0020	PD
13	060	0020	PD
14	064	0020	PD
24	117	0020	PD
33	161	0020	PD
35	173	0020	PD
25	123	0030	PQ
7	025	0070	A
23	104	0070	A
26	127	0070	A
8	029	0170	A
10	039	0170	A
8	028	2070	A
6	022	2070	DL
5	020	2070	PC
8	030	2070	PW
10	038	3871	A
10	040	3880	A
20	089	3880	A
20	090	3880	A
20	091	3880	A
34	164	3880	A
34	165	3880	A
35	169	3880	A
35	174	3880	A
36	175	3880	A
36	176	3880	A

THE CONSOLE FAILED

D

MAP 0023-2

PAPER ONLY

PAGE 2 OF 36

001
(ENTRY POINT A)

- SEE IF A PROGRAMMER OR MAINTENANCE CONSOLE IS INSTALLED ON THE PROCESSING UNIT.

IS A PROGRAMMER OR MAINTENANCE CONSOLE INSTALLED AS NOTED?

Y N

002
AN ALTERNATE CONSOLE IS INSTALLED ON THE SYSTEM.
A PROGRAMMER OR MAINTENANCE CONSOLE IS NOT INSTALLED ON THE PROCESSING UNIT.

THE CONDITION OF THE LEDS INDICATES IF THE PROCESSING UNIT TEST(S) RAN CORRECT.

- WAIT TWO (2) MINUTES.
- SEE THE LOAD LED.

IS THE LOAD LED ON?

Y N

003
- SEE IF THE WAIT LED IS OFF.
- SEE IF THE RUN LED IS OFF.

IS THE WAIT LED OFF AND RUN LED OFF?

Y N

4 4 3
A B C D

004
- SEE IF THE WAIT LED IS ON.

IS THE WAIT LED ON?

Y N

005
GO TO PAGE 4, STEP 014, ENTRY POINT DP.

006
IF NOT SURE OF THE ANSWER TAKE THE YES LEG.

IS THE ALTERNATE CONSOLE A 31XX AND THE DIAGNOSTIC DESKETTE CONFIGURED FOR ENHANCED CONSOLE SUPPORT.

Y N

007
DCP IS LOADED.
THE ALTERNATE CONSOLE OR ATTACHMENT CARD IS SUSPECT.
A CONSOLE IS NEEDED TO RUN DIAGNOSTICS.

OBTAIN THE FOLLOWING:
THE ATTACHMENT CARD FOR THE ALTERNATE CONSOLE MAINTENANCE CONSOLE TOOL.

INSTALL MAINTENANCE CONSOLE:

- SEE THE PROCESSING UNIT MAINTENANCE INFORMATION MANUAL, MAINTENANCE CONSOLE ATTACHMENT PROCEDURE.
- SEE THE MLD VOLUME 1, PAXXX FOR THE PROCESSING UNIT TOP CARD CONNECTORS.

GO TO MAP 0020, ENTRY POINT A.

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ECA71494 PECA41061

3
E

MAP 0023-2

B H THE CONSOLE FAILED

2 3

PAPER ONLY

PAGE 4 OF 36

013

- TEST THE 'WAIT' LED FOR AN OPEN.
- TEST THE RUN LED FOR AN OPEN.

```

+-----+
|PROCESSOR| GO TO MAP 107X, |
|UNIT IS: | ENTRY POINT A. |
+-----+
| 495X    | MAP 1071 |
| 4954/56 | MAP 1072 |
+-----+
|          | IF NO REPAIR: |
+-----+

```

GO TO STEP 014,
ENTRY POINT DP.

014

(ENTRY POINT DP)

OBTAIN THE FOLLOWING:
 PROCESSING UNIT CARD(S).
 DISKETTE UNIT ATTACHMENT CARD.
 MAINTENANCE CONSOLE TOOL.

INSTALL MAINTENANCE CONSOLE:

- SEE PROCESSING UNIT MAINTENANCE INFORMATION MANUAL, MAINTENANCE CONSOLE ATTACHMENT PROCEDURE.
- SEE MLD VOLUME 1, PAXXX FOR THE PROCESSING UNIT TOP CARD CONNECTORS.

GO TO MAP 0020, ENTRY POINT A.

A

2

MAP 0023-4

015

(ENTRY POINT AC)

AN ALTERNATE CONSOLE IS INSTALLED ON THE SYSTEM AND DOES NOT PRINT OR DISPLAY A MESSAGE. A PROGRAMMER OR MAINTENANCE CONSOLE IS INSTALLED ON THE PROCESSING UNIT.

- SEE THE DATA LEDS ON THE PROGRAMMER CONSOLE.
- NOTE THE DATA LEDS.

DO THE DATA LEDS EQUAL '38XX',
AND THE STOP LED OFF?

Y N

016

(ENTRY POINT PP)

- SEE THE STOP LED.

IS THE STOP LED ON?

Y N

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8 8 5

J K L

MAP 0023-4

L
4

THE CONSOLE FAILED

MAP 0023-5

PAPER ONLY

PAGE 5 OF 36

017

THE DATA LEDS DO NOT EQUAL
'38XX', WITH THE STOP LED OFF.

- ENSURE THE POLL JUMPERS ARE
CORRECT.

- SEE THE NOTE --->
- SEE THE DATA LEDS:

EVERY OTHER CARD POSITION MUST
HAVE A CARD INSTALLED, OR A POLL
JUMPER MUST BE INSTALLED FROM PIN
M11 TO PIN M12 IN ALL EMPTY CARD
POSITIONS.

00E0
00E5

- SEE MLD VOLUME ONE (1),
PROCESSING UNIT OR EXPANSION
LOGICS (AXXX).

DID THE DATA LEDS EQUAL ANY OF
THE ABOVE?

Y N

018

- SEE THE DATA LEDS:

0E00
0E05

DID THE DATA LEDS EQUAL ANY OF
THE ABOVE?

Y N

019

THE DATA LEDS DO NOT EQUAL
'38XX', WITH THE STOP LED
OFF.

- PRESS THE RESET KEY.

DID THE STOP LED COME ON?

Y N

020

GO TO MAP 2070,
ENTRY POINT PC.

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8 8 6
M N P

MAP 0023-5

P
5

THE CONSOLE FAILED

MAP 0023-6

PAPER ONLY

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021

THERE IS A DCP FAILURE.

- NOTE THE DATA LEDS ON PAPER.
THIS WILL BE NAMED THE 'WRITTEN
DATA LEDS'.

- 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 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 AND RELEASE THE START
KEY.

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

Y N

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

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8 7

Q R

MAP 0023-6

R
6

THE CONSOLE FAILED

MAP 0023-7

PAPER ONLY

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024

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

- SEE THE NOTE --->
- REMOVE THE DIAGNOSTIC DISKETTE.
- INSERT THE SYSTEM TEST DISKETTE.
- ENSURE THE DISKETTE UNIT IS READY.
- PRESS AND RELEASE 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.

DID THE SYSTEM TEST DISKETTE IPL
AS NOTED?

Y N

025

GO TO MAP 0070, ENTRY POINT A.

026

THE FIRST DIAGNOSTIC DISKETTE IS
NOT GOOD.

- OBTAIN A GOOD DIAGNOSTIC DISKETTE.

GO TO MAP 0020, ENTRY POINT A.

YOU CAN ONLY IPL THESE DISKETTES:

BASIC DIAGNOSTIC DISKETTE.
SYSTEM TEST DISKETTE

IF IPL IS NEEDED, INSERT THE
BASIC DIAGNOSTIC DISKETTE, 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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MAP 0023-7

J K M N Q THE CONSOLE FAILED
4 4 5 5 6

MAP 0023-8

PAPER ONLY

PAGE 8 OF 36

027

THE 'DATA LEDS EQUAL'
QUESTIONS MUST BE
ANSWERED WITH THE
'WRITTEN DATA LEDS'.

GO TO PAGE 4,
STEP 015,
ENTRY POINT AC.

028

GO TO MAP 2070,
ENTRY POINT A.

029

THE DATA LEDS EQUAL '00E0' OR
'00E5'

- SEE THE NOTE ---->

GO TO MAP 0170,
ENTRY POINT A.

030

GO TO MAP 2070, ENTRY POINT PW.

031

- SEE THE DATA LEDS.

DO THE DATA LEDS EQUAL '3801',
AND THE WAIT LED ON?

Y N

1
0 9
S T

- ENSURE THE POLL JUMPERS ARE
CORRECT.

EVERY OTHER CARD POSITION MUST
HAVE A CARD INSTALLED, OR A POLL
JUMPER MUST BE INSTALLED FROM PIN
M11 TO PIN M12 IN ALL EMPTY CARD
POSITIONS.

- SEE MLD VOLUME ONE (1),
PROCESSING UNIT OR EXPANSION
LOGICS (AXXX).

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MAP 0023-8

T
8

THE CONSOLE FAILED

PAPER ONLY

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032

- SEE THE DATA LEDS.

DO THE DATA LEDS EQUAL '3820',
AND THE WAIT LED ON?

Y N

033

- SEE THE DATA LEDS.

DO THE DATA LEDS EQUAL '380B',
AND THE WAIT LED ON?

Y N

034

- SEE THE DATA LEDS.

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

Y N

1 1 1
0 0 0
U V W X

X

MAP 0023-9

035

(ENTRY POINT DS)

STORAGE X'0240' HAS THE DEVICE
ADDRESS AND TYPE OF THE ALTERNATE
CONSOLE ASSIGNED IN THE
CONFIGURATION TABLE.

- ENTER ON THE CONSOLE:

- PRESS THE STOP KEY.
- PRESS THE SAR KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE TWO (2) KEY.
- PRESS THE FOUR (4) KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE STORE KEY.
- PRESS THE MAIN STORAGE KEY.

THE DATA LEDS CONTAIN THE DEVICE
ADDRESS AND THE DEVICE TYPE OF
THE ALTERNATE CONSOLE ASSIGNED IN
THE CONFIGURATION TABLE.

- NOTE THE DEVICE ADDRESS AND
TYPE.

A A T T

T T = DEVICE TYPE

A A = DEVICE ADDRESS

THIS 'AATT' WILL BE NAMED 'AATT
-1'.

- NOTE THIS 'AATT -1' NUMBER.

DOES THE 'AATT -1' NUMBER EQUAL
'0000'?

Y N

036

GO TO PAGE 11, STEP 044,
ENTRY POINT CI.

1
0
Y

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MAP 0023-9

S U V W Y THE CONSOLE FAILED

8 9 9 9 9

PAPER ONLY

PAGE 10 OF 36

037

GO TO PAGE 29,
STEP 142,
ENTRY POINT AA.

038

GO TO MAP 3871,
ENTRY POINT A.

039

GO TO MAP 0170,
ENTRY POINT A.

040

GO TO MAP 3880, ENTRY POINT A.

041

'3801' IN THE DATA LEDS IS AN
ALTERNATE CONSOLE PROBLEM.

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

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

Y N

3
6 A
Z A

MAP 0023-10

A

A

|

|

|

|

042

(ENTRY POINT CN)

LEVEL THREE (3), REGISTER ZERO
(0), HAS THE DEVICE ADDRESS AND
THE DEVICE TYPE IN THE ALTERNATE
CONSOLE ASSIGNED IN THE
CONFIGURATION TABLE.

- ENTER ON THE CONSOLE:

- -----
- PRESS THE STOP KEY.
- DISPLAY LEVEL THREE (3).
- DISPLAY REGISTER ZERO (0).

THE DATA LEDS CONTAIN THE DEVICE
ADDRESS AND TYPE OF THE ALTERNATE
CONSOLE ASSIGNED IN THE
CONFIGURATION TABLE.

- NOTE THE DEVICE ADDRESS AND
TYPE.

A A T T

T T = DEVICE TYPE

A A = DEVICE ADDRESS

THIS 'AATT' WILL BE NAMED 'AATT
-1'.

- NOTE THIS 'AATT -1' NUMBER.

IS THE ACTION COMPLETE?

Y N

043

- COMPLETE THE ACTION AND
CONTINUE ON YES LEG

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PECA41061

MAP 0023-10

1

1

A

B

A THE CONSOLE FAILED
B
1 PAPER ONLY
0
PAGE 11 OF 36
|
|
044
(ENTRY POINT CI)

A PROGRAMMER/MAINTENANCE CONSOLE IS NOT AN ALTERNATE CONSOLE.

IF THE 'AATT -1' ALTERNATE CONSOLE IS NOT THE ONLY CONSOLE INSTALLED, (SOME OTHER ALTERNATE CONSOLE IS INSTALLED), ANSWER THE FOLLOWING QUESTION 'YES'.

IF THE 'AATT -1' ALTERNATE CONSOLE IS NOT INSTALLED, AND THERE IS SOME OTHER ALTERNATE CONSOLE INSTALLED, ANSWER THE FOLLOWING QUESTION 'YES'.

- SEE IF MORE THAN ONE SUPPORTED ALTERNATE CONSOLE IS INSTALLED.

IS MORE THAN ONE SUPPORTED ALTERNATE CONSOLE INSTALLED?

Y N

| 045
| THERE IS ONLY ONE ALTERNATE
| CONSOLE INSTALLED ON THE
| SYSTEM. THE 'AATT-1' ALTERNATE
| CONSOLE WAS NOTED BEFORE AND IS
| NOT WORKING.

| - PRESS AND RELEASE THE START
| KEY.

| DOES THE 'AATT -1' NUMBER NOTED
| EQUAL 'XX40'?

| Y N

1 1 |
4 4
A A A
C D E

A MAP 0023-11
E
|
|
|
|
046
- SEE IF THE ALTERNATE CONSOLE IN
'AATT -1' IS INSTALLED ON THE
SYSTEM.

IS THE 'AATT -1' CONSOLE
INSTALLED ON THE SYSTEM?

Y N

| 047
| GO TO PAGE 20, STEP 087,
| ENTRY POINT CC.

| 048

IS THE ALTERNATE CONSOLE A 31XX
DISPLAY?

Y N

| 049
| (ENTRY POINT TY)

| - SEE THE DATA LEDS NOTED
| BEFORE.

| DID THE DATA LEDS EQUAL '3823'?

| Y N

| 050

| - ENTER ON THE CONSOLE:

| -----
| (B) 5 (I) (I)
| (B) 9 (I) (I)
| (B) 6 (I) (I)

| THE PROGRAM WILL TERMINATE.

| GO TO PAGE 20, STEP 093,
| ENTRY POINT CE.

1 1
2 2
A A
F G
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ECA71494 PECA41061
MAP 0023-11

A THE CONSOLE FAILED
G
1 PAPER ONLY
1
PAGE 12 OF 36

051

- ENTER ON THE CONSOLE:

(B) 6 (I) (I)
6 = RESUME

THE PROGRAM WILL CONTINUE.

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

Y N

052

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)
THE PROGRAM WILL TERMINATE.
GO TO PAGE 20, STEP 093,
ENTRY POINT CE.

053

GO TO PAGE 20, STEP 093,
ENTRY POINT CE.

A MAP 0023-12
F
1
1

054

THERE IS A 31XX ALTERNATE CONSOLE
ASSIGNED BY DCP. THE ALTERNATE
CONSOLE IS NOT WORKING. THE
ALTERNATE CONSOLE SUPPORT MAY NOT
BE CORRECT.

- USE THE PROGRAMMER CONSOLE TO
DETERMINE WHICH CONSOLE SUPPORT
IS IN THE CONFIGURATION TABLE.

- PRESS THE STOP KEY.
- PRESS THE STOP ON ADDRESS KEY.
- PRESS THE ONE (1) KEY.
- PRESS THE NINE (9) KEY.
- PRESS THE FIVE (5) KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE STORE KEY.
- PRESS THE STOP ON ADDRESS KEY.
- PRESS THE STOP ON ADDRESS KEY.
- PRESS THE LOAD KEY.

- WAIT FOR THE STOP LED TO GO ON.
THE DATA LEDS SHOULD BE 1950.

DO THE DATA LEDS EQUAL 1950?

Y N

055

THE STOP LED IS ON, BUT THE
DATA LEDS DO NOT EQUAL 1950.

- PRESS THE START KEY UNTIL THE
DATA LEDS EQUAL 1950 AND THE
STOP LED IS ON.

GO TO PAGE 13, STEP 056,
ENTRY POINT CA.

1
3
A
H

30MAR87 PN6060917

ECA71494 PECA41061

MAP 0023-12

A THE CONSOLE FAILED
J
1 PAPER ONLY
3
PAGE 14 OF 36

062
- PRESS THE ZERO (0) KEY.
- PRESS THE STORE KEY.

PREFORM DEFAULT SETUP FOR
ALTERNATE CONSOLE REFERANCE
MAP0000.

POWER OFF DISPLAY
POWER ON DISPLAY
ON PROGRAMMER CONSOLE:
- PRESS THE STOP ON ADDRESS
- PRESS THE START KEY

DID MESSAGE APPEAR ON ALTERNATE
CONSOLE?

Y N

063

- ENTER ON THE CONSOLE:

(B) 5 (I) (I)
(B) 9 (I) (I)
(B) 6 (I) (I)

THE PROGRAM WILL TERMINATE.
GO TO PAGE 20, STEP 093,
ENTRY POINT CE.

064

(ENTRY POINT GC)

THE PROGRAM CANNOT DETERMINE THE
31XX SETUP.
DO NOT USE ENHANCED CONSOLE
SUPPORT.
RUN DIAGNOSTIC ON SUSPECTED
DEVICES
GO TO MAP 0020, ENTRY POINT PD.

A A MAP 0023-14
C D
1 1
1 1

065
GO TO PAGE 27, STEP 129,
ENTRY POINT TT.

066

- SEE THE 'AATT -1' NUMBER NOTED.
- SEE IF THE 'AATT -1' NUMBER
EQUALS '0000'.

DOES THE 'AATT-1' EQUAL '0000'?

Y N

067

- SEE THE 'AATT -1' NUMBER
NOTED.
- SEE IF THE 'AATT-1' NUMBER
EQUALS 'XX40'.

DOES THE 'AATT-1' EQUAL 'XX40'?

Y N

2 2 1
9 7 5
A A A
N P Q

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ECA71494 PECA41051

MAP 0023-14

A THE CONSOLE FAILED
Q
1 PAPER ONLY
4
PAGE 15 OF 36

068
(ENTRY POINT CD)

THERE IS AN ALTERNATE CONSOLE ASSIGNED BY DCP. THE ALTERNATE CONSOLE IS NOT WORKING. SOME OTHER ALTERNATE CONSOLE IS INSTALLED ON THE SYSTEM. USE THIS OTHER ALTERNATE CONSOLE TO DIAGNOSE THE ONE THAT IS NOT CORRECT.

- SEE THE ALTERNATE CONSOLE DEVICE ADDRESS AND TYPE YOU WANT TO USE AS A TEMPORARY ASSIGNED ALTERNATE CONSOLE. TO USE THIS OTHER CONSOLE, MAKE THE CHANGE AS FOLLOWS:

- PRESS THE STOP KEY.
- PRESS THE STOP ON ADDRESS KEY.
- PRESS THE ONE (1) KEY.
- PRESS THE NINE (9) KEY.
- PRESS THE FIVE (5) KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE STORE KEY.
- PRESS THE STOP ON ADDRESS KEY.
- PRESS THE STOP ON ADDRESS KEY.
- PRESS THE LOAD KEY.

- WAIT FOR THE STOP LED TO GO ON. THE DATA LEDS SHOULD BE 1950.

DO THE DATA LEDS EQUAL 1950?

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

A A
R S

A A MAP 0023-15
R S

| |
| |
| |
| |
| 069
| THE STOP LED IS ON, BUT THE
| DATA LEDS DO NOT EQUAL 1950.
|
| - PRESS THE START KEY UNTIL THE
| DATA LEDS EQUAL 1950 AND THE
| STOP LED IS ON.
| GO TO STEP 070,
| ENTRY POINT AU.

070
(ENTRY POINT AU)
- SELECT A CONSOLE FROM TABLE.

AN ALTERNATE CONSOLE IS:	MAP/TYPE	AA TT
4973 PRINTER	6800	AA68
4974 PRINTER	6400	AA64
5200 PRINTERS	6A00	AA6A
MULTIFUNCTION	E600	AAE6
31XX-7485-4975		
31XX RPQ D02350	81F0	AA81
31XX ACCA SL	E800	AAE8
31XX ACCA ML	E900	AAE9
31XX FPMLC	EA00	AAEA
31XX MCC	E300	AAE3
4978	4500	AA45
4979	4400	AA44
4980	F900	AAF9
7485 RPQ D02350	81FX	AA81
TTY ATTACHMENT %	4000	AA40
5251/5291	E400	AAE4

IS THE ACTION COMPLETE?

Y N
| |
| |
| |
| |

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1 1
6 6 ECA71494 PECA41061
A A
T U MAP 0023-15

A A THE CONSOLE FAILED
T U
1 1 PAPER ONLY
5 5
PAGE 16 OF 36

071
- COMPLETE THE ACTION AND
CONTINUE ON THE YES LEG.

072
- DISPLAY REGISTER ZERO (0).
- ENTER THE NEW ALTERNATE CONSOLE
DEVICE ADDRESS AND TYPE (AATT).
- PRESS THE STORE KEY.
- SEE IF THE ALTERNATE CONSOLE
SELECTED IS OTHER THAN A 4975,
52X1/5156, 4980, 7485, 31XX OR
5200 SERIES PRINTER.

IS THE CONSOLE OTHER THAN ONE OF
THE ABOVE?
Y N

073
- SEE IF THE ALTERNATE CONSOLE
ASSIGNED IS A 4975.

IS THE ALTERNATE CONSOLE
ASSIGNED A 4975?
Y N

074
- SEE IF THE ALTERNATE
CONSOLE ASSIGNED IS A
52X1/5256.

IS THE ALTERNATE CONSOLE
ASSIGNED A 52X1/5256?
Y N

1 1 1
9 8 8
A A A A
V W X Y

A MAP 0023-16
Y

075
- SEE IF THE ALTERNATE CONSOLE
ASSIGNED IS A 4980.

IS THE ALTERNATE CONSOLE ASSIGNED
A 4980?
Y N

076
- SEE IF THE ALTERNATE CONSOLE
ASSIGNED IS A 7485 OR A 3161
ON A MCC.

IS THE ALTERNATE CONSOLE
ASSIGNED A 7485 OR A 3161 ON A
MCC?
Y N

077
- SEE IF THE ALTERNATE
CONSOLE ASSIGNED IS A 31XX?

IS THE ALTERNATE CONSOLE
ASSIGNED A 31XX?
Y N

078
- SEE IF THE ALTERNATE
CONSOLE ASSIGNED IS A
5200 SERIES PRINTER.

IS THE ALTERNATE CONSOLE
ASSIGNED A 5200 SERIES
PRINTER?
Y N

079
GO TO PAGE 19,
STEP 086,
ENTRY POINT AV.

30MAR87 PN6060917
1 1 1 1
7 7 7 7 ECA71494 PECA41061
A B B B
Z A B C MAP 0023-16

B B THE CONSOLE FAILED

B C

1 1 PAPER ONLY

6 6

PAGE 17 OF 36

| |
| |
| 080
| 5200 SERIES PRINTER SUBADDRESS
| MUST BE ENTERED IN REGISTER 1
| AS 000X.

| - DISPLAY REGISTER ONE (1).

- ENTER ON THE CONSOLE:

| - PRESS 0 KEY.

| - PRESS 0 KEY.

| - PRESS 0 KEY.

| - PRESS X KEY.

| WHERE X = PAAA

| P = PORT NUMBER 0 - 1

| XXX = PRINTER ADDRESS 0 - 6

| GO TO PAGE 19, STEP 086,

| ENTRY POINT AV.

081

31XX DISPLAY SELECT ENHANCED
SUPPORT

- DISPLAY REGISTER ONE (1).

- ENTER ON THE CONSOLE:
| -----

- PRESS X KEY.

- PRESS 0 KEY.

- PRESS 0 KEY.

- PRESS 0 KEY.

WHERE X = 8 = ENHANCED SUPPORT

0 = STANDARD SUPPORT

GO TO PAGE 19, STEP 086,

ENTRY POINT AV.

A B

MAP 0023-17

Z A

1 1

6 6

| |
| |
| 082
| 7485 - A MODEL (53 OR 63) MUST
| BE ENTERED IN REGISTER 1 AS
| 000X.

| - DISPLAY REGISTER ONE (1).

- ENTER ON THE CONSOLE:

| - PRESS 0 KEY.

| - PRESS 0 KEY.

| - PRESS 0 KEY.

| - PRESS X KEY.

| X = 1 = MODEL 53

| 2 = MODEL 63

| 3161 ON MCC = MODEL 53

| GO TO PAGE 19, STEP 086,

| ENTRY POINT AV.

083

4980 - CABLE AND STATION ADDRESS
MUST BE ENTERED IN REGISTER 1 AS
ZYXX.

- DISPLAY REGISTER ONE (1).

- ENTER ON THE CONSOLE:
| -----

- PRESS Z KEY.

- PRESS Y KEY.

- PRESS X KEY.

- PRESS X KEY.

Z = PORT ADDRESS 0 - 1

Y = LINE SPEED 0-100K

1-250K

2-500K

XX = TERMINAL ADDRESS

GO TO PAGE 19, STEP 086,

ENTRY POINT AV.

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MAP 0023-17

A A THE CONSOLE FAILED
W X
1 1 PAPER ONLY
6 6
PAGE 18 OF 36

| |
| |
| 084
| 52X1 - CABLE AND STATION
| ADDRESS MUST BE ENTERED IN
| REGISTER 1 AS 00XY.
|
| - DISPLAY REGISTER ONE (1).
- ENTER ON THE CONSOLE:
- PRESS 0 KEY.
- PRESS 0 KEY.
- PRESS X KEY.
- PRESS Y KEY.
X = CABLE ADDRESS 0-3
Y = STATION ADDRESS 0-6
GO TO PAGE 19, STEP 086,
ENTRY POINT AV.

085
4975 - A MODEL (01L OR 02L) MUST
BE ENTERED IN REGISTER 1 AS 000X.

- DISPLAY REGISTER ONE (1).
- ENTER ON THE CONSOLE:

- PRESS 0 KEY.
- PRESS 0 KEY.
- PRESS 0 KEY.
- PRESS X KEY.
X = 3 = MODEL 01L
4 = MODEL 02L
GO TO PAGE 19, STEP 086,
ENTRY POINT AV.

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B THE CONSOLE FAILED
N
2 PAPER ONLY
1
PAGE 22 OF 36

099
AN ALTERNATE CONSOLE IS INSTALLED ON THE SYSTEM AND IS NOT WORKING CORRECT. A PROGRAMMER OR MAINTENANCE CONSOLE IS INSTALLED ON THE PROCESSING UNIT. THE PROGRAMMER OR MAINTENANCE CONSOLE CAN BE USED TO RUN THE DIAGNOSTIC(S) FOR THE SUPPORTED ALTERNATE CONSOLE.

- GO TO THE MAP PROLOG FOR THE ALTERNATE CONSOLE DEVICE OR RPQ SUSPECTED.
- NOTE SECTION 1.3 AND 4.1 OF THE PROLOG.
- LOAD AND RUN ALL MAPS INDICATED IN THE PROLOG, SECTION 0.0, FOR THE ALTERNATE CONSOLE ATTACHMENT OR DEVICE SUSPECTED.

IF A KEY OR KEYBOARD IS SUSPECTED AS THE PROBLEM, BECAUSE OF FAILURE WHEN THE KEYBOARD WAS USED, NOTE THIS WHEN READING THE PROLOG. THE PROLOG WILL LIST A KEYBOARD CHECK FOR THE ALTERNATE CONSOLE.

- ENTER ON THE CONSOLE:

(B) B (I)
(B) XXXX (I) (I)
XXXX = CONSOLE MAP #

- LISTEN FOR THE 'AUDIBLE DEVICE' WHEN THE KEY(S) ARE PRESSED.

CAN YOU MAKE THE CONSOLE ENTRY INTO THE SYSTEM?

Y N
| |
| |
| |
| |
2 |
3
B B
Q R

B MAP 0023-22
R

100
IS THIS THE FIRST TIME HERE?
Y N

101
- TEST THE KEY THAT IS NOT CORRECT.

+-----+
	PROCESSOR	GO TO MAP 107X,
	UNIT IS:	ENTRY POINT A.
	-----+-----	
	495X	MAP 1071
	4954/56	MAP 1072
	-----+-----	
	IF NO REPAIR:	
+-----+-----+		
GO TO PAGE 4, STEP 014,		
ENTRY POINT DP.		

102
- IPL THE BASIC DIAGNOSTIC DISKETTE.
- SEE MAP 0010, SECTION 04.01.00.
- ASSIGN THE CONSOLE FUNCTION TO THE PROGRAMMER CONSOLE AS FOLLOWS:

- ENTER ON THE CONSOLE:

(B) 5 (I) (I)

THE PROGRAMMER CONSOLE IS NOW THE CONSOLE TO USE.
IT IS THE CONSOLE TO USE UNTIL THE NEXT IPL OF THE BASIC DIAGNOSTIC DISKETTE.
GO TO PAGE 20, STEP 093, ENTRY POINT CE.

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MAP 0023-22

B B THE CONSOLE FAILED
M Q
2 2 PAPER ONLY
1 2
PAGE 23 OF 36

103
- FOLLOW INSTRUCTIONS IN THE
MAPS AND RUN ALL DIAGNOSTICS
FROM THE PROGRAMMER CONSOLE.
- IF THE WAIT LED IS ON READ
SECTION 1.3 IN THE PROLOG.

DID THE ALTERNATE CONSOLE
DIAGNOSTIC(S) REPAIR THE
PROBLEM?

Y N

104
GO TO MAP 0070,
ENTRY POINT A.

105
- VERIFY THE REPAIR

106
THE ALTERNATE CONSOLE IS A
31XX/7485 DISPLAY.
THE 31XX/7485 DISPLAY IS NOT
WORKING CORRECT.

- SEE IF THE 31XX/7485 DISPLAY
HAS A MESSAGE ON THE SCREEN.

DOES THE SCREEN DISPLAY
MESSAGE(S) CORRECT?

Y N

107
- USE THE PROGRAMMER OR
MAINTENANCE CONSOLE TO RUN
THE DIAGNOSTIC FOR THE
ATTACHMENT FOR THE ALTERNATE
CONSOLE
GO TO PAGE 21, STEP 097,
ENTRY POINT AF.

B
S

B B MAP 0023-23
L S
2
1
108
THE 31XX/7485 CAN DISPLAY
MESSAGE(S). THERE MAY BE A
KEYBOARD ENTRY PROBLEM.
GO TO PAGE 21, STEP 097,
ENTRY POINT AF.

109
THE ALTERNATE CONSOLE IS A
5251/5291 DISPLAY.

- SEE IF THE DISPLAY HAS A
MESSAGE ON THE SCREEN.

DOES THE SCREEN DISPLAY
MESSAGE(S) CORRECT?

Y N

110
- USE THE PROGRAMMER OR
MAINTENANCE CONSOLE TO RUN
THE 52X1 INFORMATION DISPLAY
SYSTEM ATTACHMENT MAP(S).

GO TO PAGE 21, STEP 097,
ENTRY POINT AF.

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T
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MAP 0023-23

B B THE CONSOLE FAILED
J T
2 2 PAPER ONLY
0 3
PAGE 24 OF 36

B B MAP 0023-24
U V

| |
| |
| |
| |
| 115
| GO TO PAGE 21, STEP 097,
| ENTRY POINT AF.

| 116
| THE 4980 CAN DISPLAY MESSAGE(S).
| THE KEYBOARD BEING USED MAY NOT
| MATCH THE KEYBOARD FUNCTION
| TABLE. AS A KEY ENTRY IS MADE,
| NOTE IF THE CHARACTER DISPLAYED
| IS THE SAME AS THE KEY PRESSED:
| WHEN THE 'B' KEY IS PRESSED, A
| 'B' CHARACTER IS DISPLAYED AS A
| 'B'.
| AS EACH KEY IS PRESSED, ENSURE
| THE CHARACTER IS DISPLAYED.

DID ALL CHARACTERS DISPLAYED
MATCH THE KEY PRESSED?
Y N

| 117
| THE KEYBOARD FUNCTION TABLE
| FROM THE DISKETTE DOES NOT
| MATCH THE KEYBOARD IN USE.

| - IPL THE BASIC DIAGNOSTICS
|
| AT MESSAGE:
| 'PRESS ANY KEY IN 15 SECONDS TO
| CHANGE KEYBOARD DESCRIPTION'
|
| - PRESS ANY KEY ON THE 4980
| KEYBOARD.
| GO TO MAP 0020, ENTRY POINT PD.

| 118
| THE PROBLEM ON THE 4980 IS NOT ON
| THE KEYBOARD.
| GO TO PAGE 21, STEP 097,
| ENTRY POINT AF.

| 111
| THE 52X1 CAN DISPLAY
| MESSAGE(S). THERE MAY BE A
| KEYBOARD ENTRY PROBLEM.

- USE THE STATION VERIFY
DISKETTE, PART NUMBER
6826590. THE DISPLAY
STATION(S) WILL GO TO FREE
KEY MODE. WHEN THE
STATION(S) ARE IN FREE KEY
MODE, USE THE STATION MAP
THAT IS IN THE LOWER REAR OF
THE STATION TO REPAIR THE
DISPLAY.

DID THE 'FREE KEY MODE' MAP
REPAIR THE PROBLEM?
Y N

| 112
| THE PROBLEM ON THE DISPLAY IS
| NOT ON THE KEYBOARD.
| GO TO PAGE 21, STEP 097,
| ENTRY POINT AF.

| 113
| - VERIFY THE REPAIR

114
THE ALTERNATE CONSOLE IS A 4980
DISPLAY. THE 4980 DISPLAY IS NOT
WORKING.

- SEE IF THE 4980 DISPLAY HAS ANY
MESSAGE(S) ON THE SCREEN.

DOES THE SCREEN DISPLAY
MESSAGE(S) CORRECT?
Y N

| |
| |
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| |

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MAP 0023-24

B THE CONSOLE FAILED
G
2 PAPER ONLY
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MAP 0023-26

|
|
126
YOU ARE USING A 'TEMPORARY'
ALTERNATE CONSOLE. AN ALTERNATE
CONSOLE 'AATT -1', IS INSTALLED
AND NOT WORKING.

- USE THE 'TEMPORARY' CONSOLE TO
LOAD DIAGNOSTICS FOR THE 'AATT
-1' CONSOLE THAT IS NOT
WORKING.
- GO TO MAP PROLOG FOR ALTERNATE
CONSOLE DEVICE SUSPECTED. READ
SECTION 0.0.
- LOAD THE MAP INDICATED IN THE
PROLOG, SECTION 0.0, FOR THE
ALTERNATE CONSOLE ATTACHMENT OR
DEVICE SUSPECTED.
- FOLLOW INSTRUCTIONS IN THE
PROLOG, SECTION 0.0, AND RUN
THE DIAGNOSTICS.

IF A KEY OR KEYBOARD IS SUSPECTED
AS THE PROBLEM, BECAUSE OF A
FAILURE WHEN THE KEYBOARD WAS
USED, NOTE THIS WHEN READING THE
PROLOG. THE PROLOG LISTS A
KEYBOARD CHECK OR OFF LINE TESTS
FOR THE ALTERNATE CONSOLE.

IF INSTRUCTED,
- ENTER ON TEMPORARY CONSOLE:

BXXXX ENTER OR RETURN
XXXX = AATT -1 DIAGNOSTIC

AFTER ALL OF THE DIAGNOSTIC(S)
ARE RUN, ANSWER THE FOLLOWING
QUESTION:

DID THE ALTERNATE CONSOLE
DIAGNOSTIC(S) REPAIR THE PROBLEM?
Y N

| 127
| GO TO MAP 0070, ENTRY POINT A.
|
|
|

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B
Y

MAP 0023-26

A B THE CONSOLE FAILED
P Y
1 2 PAPER ONLY
4 6
PAGE 27 OF 36

| |
| |
| 128
| - VERIFY THE REPAIR
|
129
(ENTRY POINT TT)

THE ASSIGNED ALTERNATE CONSOLE IS
A TTY TYPE.

- SEE IF A TTY TYPE ATTACHMENT
CARD IS INSTALLED ON THE
SYSTEM.

IS A TTY TYPE ATTACHMENT CARD
INSTALLED ON THE SYSTEM?

Y N
|
| 130
| THE CONFIGURATION TABLE ENTRY
| FOR THE ALTERNATE CONSOLE IS
| NOT CORRECT.
| GO TO PAGE 20, STEP 087,
| ENTRY POINT CC.

131
- SEE IF A WRAP CONNECTOR IS
INSTALLED ON THE TOP CARD
CONNECTOR OF THE TTY TYPE
ATTACHMENT CARD.

IS A WRAP CONNECTOR INSTALLED ON
THE TTY ATTACHMENT CARD?

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

2 |
8
B C
Z A

C MAP 0023-27
A

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|
|
|
132
- SEE THE TTY TYPE DEVICE
CONNECTED TO THE TTY ATTACHMENT
CARD.

THE TTY TYPE DEVICE MAY BE AN I/O
TYPE DEVICE. IT MAY HAVE A
KEYBOARD AND BE A DISPLAY OR
PRINT DEVICE.

IS THE TTY TYPE DEVICE AN I/O
DEVICE?

Y N
|
| 133
| THERE IS A TTY TYPE ATTACHMENT
| INSTALLED ON THE SYSTEM. THERE
| IS NO TTY TYPE DEVICE CONNECTED
| TO THIS CARD. THIS TTY TYPE
| DEVICE MUST NOT BE ASSIGNED IN
| THE CONFIGURATION TABLE AS THE
| SUPPORTED ALTERNATE CONSOLE.

- CHANGE THE SUPPORTED
ALTERNATE CONSOLE IN THE
CONFIGURATION TABLE, IF SOME
OTHER ALTERNATE CONSOLE IS
INSTALLED.

IS SOME OTHER SUPPORTED
ALTERNATE CONSOLE INSTALLED ON
THE SYSTEM?

Y N
|
| 134
- ENTER ON THE CONSOLE:
(B) 6 (I) (I)
GO TO PAGE 20, STEP 087,
ENTRY POINT CC.

2 2 30MAR87 PN6060917
8 8 ECA71494 PECA41061
C C
B C MAP 0023-27

C C THE CONSOLE FAILED
B C
2 2 PAPER ONLY
7 7
PAGE 28 OF 36

B MAP 0023-28
Z
2
7

| |
| |
| 135
| GO TO PAGE 15, STEP 068,
| ENTRY POINT CD.
|
136
A TTY TYPE IS CONNECTED TO THE
TTY ATTACHMENT CARD. ON A TTY
TYPE ALTERNATE CONSOLE, THE
SWITCH IS IN THE 'LINE' SETTING.

- ENSURE THE TTY IS READY.
- ENSURE THE TTY POWER IS ON.

IS THE TTY TYPE POWER ON, AND THE
TTY TYPE READY?

Y N

|
| 137
| - ENSURE THE TTY IS READY.
| GO TO MAP 0020, ENTRY POINT A.
|

138
- SEE IF THERE IS SOME OTHER
SUPPORTED ALTERNATE CONSOLE
INSTALLED ON THE SYSTEM.

IS THERE SOME OTHER SUPPORTED
ALTERNATE CONSOLE INSTALLED ON
THE SYSTEM?

Y N

|
| 139
| GO TO PAGE 11, STEP 049,
| ENTRY POINT TY.
|

140
GO TO PAGE 15, STEP 068,
ENTRY POINT CD.

|
|
141
AT EACH IPL, '3801' WILL BE IN
THE DATA LEDS. THE CONFIGURATION
TABLE HAS THE TTY AS THE
ALTERNATE CONSOLE. THE WRAP
CONNECTOR IS INSTALLED, THE TTY
IS NOT INSTALLED.
TO CONTINUE IN THE MAP,

- ENTER ON THE CONSOLE:

(B) 6 (I) (I)

GO TO PAGE 4, STEP 016,
ENTRY POINT PP.

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MAP 0023-28

A THE CONSOLE FAILED
N
1 PAPER ONLY
4
PAGE 29 OF 36

142
(ENTRY POINT AA)

THE CONSOLE ASSIGNED BY DCP IS THE PROGRAMMER CONSOLE. THERE IS AN ALTERNATE CONSOLE INSTALLED ON THE SYSTEM.

- SEE THE ALTERNATE CONSOLE DEVICE ADDRESS AND TYPE YOU WANT TO USE AS A TEMPORARY ASSIGNED ALTERNATE CONSOLE. TO USE THIS OTHER CONSOLE, MAKE THE CHANGE AS FOLLOWS:

- PRESS THE STOP KEY.
- PRESS THE STOP ON ADDRESS KEY.
- PRESS THE ONE (1) KEY.
- PRESS THE NINE (9) KEY.
- PRESS THE FIVE (5) KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE STORE KEY.
- PRESS THE STOP ON ADDRESS KEY.
- PRESS THE STOP ON ADDRESS KEY.
- PRESS THE LOAD KEY.
- WAIT FOR THE STOP LED TO GO ON.

THE DATA LEDS SHOULD BE 1950.

IS THE PROCESSING UNIT A 4952, 4953 OR 4955?

Y N

143
THE STOP LED IS ON, BUT THE DATA LEDS DO NOT EQUAL 1950.

- PRESS THE START KEY UNTIL THE DATA LEDS EQUAL 1950 AND THE STOP LED IS ON.
- GO TO PAGE 15, STEP 070,
ENTRY POINT AU.

C
D

C MAP 0023-29
D

144
(ENTRY POINT AW)

- SELECT CONSOLE FROM THE TABLE.

AN ALTERNATE CONSOLE IS:	MAP/TYPE	AA TT
4973 PRINTER	6800	AA68
4974 PRINTER	6400	AA64
5200 PRINTERS	6A00	AA6A
MULTIFUNCTION	E600	AAE6
31XX-7485-4975		
31XX RPQ D02350	81F0	AA81
31XX ACCA SL	E800	AAE8
31XX ACCA ML	E900	AAE9
31XX FPMLC	EA00	AAEA
31XX MCC	E300	AAE3
4978	4500	AA45
4979	4400	AA44
4980	F900	AAF9
7485 RPQ D02350	81FX	AA81
TTY ATTACHMENT %	4000	AA40
5251/5291	E400	AAE4

IS THE ACTION COMPLETE?

Y N

- 145
- COMPLETE THE ACTION AND CONTINUE ON THE YES LEG.

3
0
C
E

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MAP 0023-29

C
E
R
9

THE CONSOLE FAILED

PAPER ONLY

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146

- DISPLAY REGISTER ZERO (0).
- ENTER THE NEW ALTERNATE CONSOLE DEVICE ADDRESS AND TYPE (AATT).
- PRESS THE STORE KEY.
- SEE IF THE ALTERNATE CONSOLE SELECTED IS OTHER THAN A 4975, 52X1/5256, 4980, 7485, 31XX OR 5200 SERIES PRINTER.

IS THE CONSOLE OTHER THAN ONE OF THE ABOVE?

Y N

147

- SEE IF THE ALTERNATE CONSOLE ASSIGNED IS A 4975.

IS THE ALTERNATE CONSOLE ASSIGNED A 4975?

Y N

148

- SEE IF THE ALTERNATE CONSOLE ASSIGNED IS A 52X1/5256.

IS THE ALTERNATE CONSOLE ASSIGNED A 52X1/5256?

Y N

149

- SEE IF THE ALTERNATE CONSOLE ASSIGNED IS A 4980.

IS THE ALTERNATE CONSOLE ASSIGNED A 4980?

Y N

3 3 3 3 |
 3 2 2 1 |
 C C C C C |
 F G H J K |

C
K

MAP 0023-30

150

- SEE IF THE ALTERNATE CONSOLE ASSIGNED IS A 7485 OR A 3161 ON MCC CARD.

IS THE ALTERNATE CONSOLE ASSIGNED A 7485 OR A 3161 ON MCA CARD?

Y N

151

- SEE IF THE ALTERNATE CONSOLE ASSIGNED IS A 31XX?

IS THE ALTERNATE CONSOLE ASSIGNED A 31XX?

Y N

152

- SEE IF THE ALTERNATE CONSOLE ASSIGNED IS A 5200 SERIES PRINTER.

IS THE ALTERNATE CONSOLE ASSIGNED A 5200 SERIES PRINTER?

Y N

153

GO TO PAGE 19,
STEP 086,
ENTRY POINT AV.

3 3 3 |
 1 1 1 |
 C C C |
 L M N |

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MAP 0023-30

C C THE CONSOLE FAILED
M N
3 3 PAPER ONLY
0 0
PAGE 31 OF 36

| |
| |
| 154
| 5200 SERIES PRINTER SUBADDRESS
| MUST BE ENTERED IN REGISTER 1
| AS 000X.

| - DISPLAY REGISTER ONE (1).
- ENTER ON THE CONSOLE:
- PRESS 0 KEY.
- PRESS 0 KEY.
- PRESS 0 KEY.
- PRESS X KEY.
WHERE X = PAAA
P = PORT NUMBER 0 - 1
AAA = PRINTER ADDRESS 0 - 6
GO TO PAGE 33, STEP 160,
ENTRY POINT AX.

155
31XX DISPLAY SELECT ENHANCED
SUPPORT

- DISPLAY REGISTER ONE (1).
- ENTER ON THE CONSOLE:
- -----
- PRESS X KEY.
- PRESS 0 KEY.
- PRESS 0 KEY.
- PRESS 0 KEY.
WHERE X = 8 = ENHANCED SUPPORT
0 = STANDARD SUPPORT
GO TO PAGE 33, STEP 160,
ENTRY POINT AX.

C C MAP 0023-31
J L
3 3
0 0

| |
| |
| 156
| 7485 - A MODEL (53 OR 63) MUST
| BE ENTERED IN REGISTER 1 AS
| 000X.

| - DISPLAY REGISTER ONE (1).
- ENTER ON THE CONSOLE:
- PRESS 0 KEY.
- PRESS 0 KEY.
- PRESS 0 KEY.
- PRESS X KEY.
X = 1 = MODEL 53
2 = MODEL 63
3161 ON MCC = MODEL 53
GO TO PAGE 33, STEP 160,
ENTRY POINT AX.

157
4980 - CABLE AND STATION ADDRESS
MUST BE ENTERED IN REGISTER 1 AS
ZYXX.

- DISPLAY REGISTER ONE (1).
- ENTER ON THE CONSOLE:
- -----
- PRESS Z KEY.
- PRESS Y KEY.
- PRESS X KEY.
- PRESS X KEY.
Z = PORT ADDRESS 0-1
Y = LINE SPEED 0=100K
1=250K
2=500K
XX = TERMINAL ADDRESS
GO TO PAGE 33, STEP 160,
ENTRY POINT AX.

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MAP 0023-31

C C THE CONSOLE FAILED
G H
3 3 PAPER ONLY
0 0
PAGE 32 OF 36

MAP 0023-32

| |
| |
| 158
| 52X1 - CABLE AND STATION
| ADDRESS MUST BE ENTERED IN
| REGISTER 1 AS 00XY.
|
| - DISPLAY REGISTER ONE (1).
- ENTER ON THE CONSOLE:
- PRESS 0 KEY.
- PRESS 0 KEY.
- PRESS X KEY.
- PRESS Y KEY.
X = CABLE ADDRESS 0-3
Y = STATION ADDRESS 0-6
GO TO PAGE 33, STEP 160.
ENTRY POINT AX.

159
4975 - A MODEL (01L OR 02L) MUST
BE ENTERED IN REGISTER 1 AS 000X.

- DISPLAY REGISTER ONE (1).
- ENTER ON THE CONSOLE:

- PRESS 0 KEY.
- PRESS 0 KEY.
- PRESS 0 KEY.
- PRESS X KEY.
X = 3 = MODEL 01L
4 = MODEL 02L
GO TO PAGE 33, STEP 160,
ENTRY POINT AX.

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MAP 0023-32

C P 3 3 THE CONSOLE FAILED PAPER ONLY PAGE 34 OF 36

162 - SEE THE MESSAGE ON THE ALTERNATE CONSOLE.

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

IS THIS MESSAGE ON THE ALTERNATE CONSOLE?

Y N

163 - SEE THE MESSAGE ON THE ALTERNATE CONSOLE.

'FIRST AUTO CONFIGURATION INNER STORAGE 03=16K, 07=32K, 0B=48K, 0F=64K ENTER'

OR

'ALTERNATE CONSOLE DEVICE ADDRESS AND TYPE ENTER'

IS ONE OF THE ABOVE MESSAGE(S) ON THE ALTERNATE CONSOLE?

Y N

Vertical separator lines

C C C Q R S

C C C Q R S

MAP 0023-34

Vertical separator lines

164 YOU HAVE ASSIGNED A 'TEMPORARY' ALTERNATE CONSOLE WITH THE 'STOP ON ADDRESS' PROCEDURE. THE CONFIGURATION PROGRAM '38F0' MUST NOW BE LOADED.

- ENTER ON THE CONSOLE:

B38F0 ENTER OR RETURN

GO TO MAP 3880, ENTRY POINT A.

165 GO TO MAP 3880, ENTRY POINT A.

166 - SEE IS THE ALTERNATE CONSOLE YOU ARE USING HAS A KEYBOARD INSTALLED ON IT.

DOES THE ALTERNATE CONSOLE YOU ARE USING HAVE A KEYBOARD INSTALLED ON IT?

Y N

167 THE PROGRAMMER OR MAINTENANCE CONSOLE IS THE CONSOLE USED BY DCP. YOU ARE USING AN ALTERNATE CONSOLE THAT DOES NOT HAVE A KEYBOARD INSTALLED ON IT.

DO YOU WANT TO USE THE CONFIGURATION PROGRAM?

Y N

Vertical separator lines

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3 3 3 5 5 5 C C C T U V

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MAP 0023-34

C C C THE CONSOLE FAILED
T U V
3 3 3 PAPER ONLY
4 4 4
PAGE 35 OF 36

168
- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)
01 = TERMINATE
THE CONFIGURATION PROGRAM
WILL TERMINATE.

GO TO PAGE 4, STEP 016,
ENTRY POINT PP.
169
- CHANGE THE CONFIGURATION
TABLE IN STORAGE.
GO TO MAP 3880, ENTRY POINT A.

170
THE ALTERNATE CONSOLE YOU ARE
USING HAS A KEYBOARD INSTALLED ON
IT. SEE THE ACTION YOU WANT TO
TAKE:

ENTER A NEW ATTACHMENT OR DEVICE
ENTRY IN THE TABLE.
REMOVE AN ATTACHMENT OR DEVICE
ENTRY FROM THE TABLE.
CHANGE A CONFIGURATION TABLE
ENTRY.
CHANGE THE ALTERNATE CONSOLE
ASSIGNED IN THE TABLE.

DO YOU WANT TO CHANGE THE
CONFIGURATION TABLE?

Y N

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

3 |
6
C C
W X

C MAP 0023-35
X

171
YOU DO NOT WANT TO CHANGE THE
CONFIGURATION TABLE. THE
ALTERNATE CONSOLE HAS A KEYBOARD.

DO YOU WANT TO CONFIGURE THE
SYSTEM?
Y N

172
- SEE IF YOU WANT TO USE THE
CONFIGURATION PROGRAM.

DO YOU WANT TO USE THE
CONFIGURATION PROGRAM?
Y N

173
- ENTER ON THE CONSOLE:

F01 ENTER OR RETURN
01 = TERMINATE

THE PROGRAM WILL TERMINATE.
GO TO MAP 0020,
ENTRY POINT PD.

174
- ENTER ON THE CONSOLE:

F03 ENTER OR RETURN
03 = OPTION TABLE

THE 'OPTION TABLE' WILL PRINT
OR DISPLAY. USE MAP 3880 TO DO
WHAT YOU WANT.
GO TO MAP 3880, ENTRY POINT A.

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6... ECA71494 PECA41061
C
Y MAP 0023-35

C C THE CONSOLE FAILED
W Y
3 3 PAPER ONLY
5 5 PAGE 36 OF 36

| |
| |
| 175
- ENTER ON THE CONSOLE:
F03 ENTER OR RETURN
03 = OPTION TABLE
- USE MAP 3880 TO CONFIGURE THE
SYSTEM.
GO TO MAP 3880, ENTRY POINT A.

176
YOU WANT TO CHANGE THE
CONFIGURATION TABLE, AND THE
ALTERNATE CONSOLE YOU ARE USING
HAS A KEYBOARD.

- ENTER ON THE CONSOLE:

F03 ENTER OR RETURN
03 = OPTION TABLE

THE 'OPTION TABLE' WILL PRINT OR
DISPLAY.
- USE MAP 3880 TO CHANGE THE
CONFIGURATION TABLE.
GO TO MAP 3880, ENTRY POINT A.

Z MAP 0023-36
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|
| 177
THE 'COMMON I/O' ARE THE
ATTACHMENT OR DEVICE CARD(S)
INSTALLED IN THE SAME BOARD WITH
THE TWO CHANNEL SWITCH OR ANY
EXPANSION UNIT BEYOND THE TWO
CHANNEL SWITCH.

IF THE ALTERNATE CONSOLE IS
INSTALLED AS 'COMMON I/O', AND
THE TWO CHANNEL SWITCH IS NOT
CONNECTED TO THE PROCESSING UNIT,
DCP CANNOT FIND THE ASSIGNED
ALTERNATE CONSOLE AND IS AT A
'3801' HALT. IF THE ASSIGNED
ALTERNATE CONSOLE IS NOT PART OF
THE 'COMMON I/O', THIS IS AN
ERROR CONDITION.

IS THE ALTERNATE CONSOLE PART OF
THE 'COMMON I/O'?
Y N

|
| 178
| GO TO PAGE 10, STEP 042,
| ENTRY POINT CN.

| 179
TO USE THE ALTERNATE CONSOLE IN
COMMON I/O THE TWO CHANNEL SWITCH
MUST BE SET TO THIS PROCESSOR.
IF THIS IS NOT POSSIBLE OR YOU
SUSPECT THE TWO CHANNEL SWITCH IS
AT FAULT,
GO TO PAGE 10, STEP 042,
ENTRY POINT CN.

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MAP 0023-36

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2

004
THE ATTACHMENT/DEVICE USED BY THE
CUSTOMER IS THE SUSPECT DEVICE.

- SEE IF A 'TTY' IS USED BY THE
CUSTOMER TO IPL THE PROCESSING
UNIT.

IS A 'TTY' USED BY THE CUSTOMER
TO IPL THE PROCESSING UNIT?

Y N

005
- 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

006
- GO TO THE MAP PROLOG OF THE
SUSPECT DEVICE.

THE PROBLEM IS ' NO IPL'.
RUN MAPS FOR IPL PROBLEM.
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.

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4 4
F G

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007

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.

008

GO TO MAP 4001,
ENTRY POINT A.

009

- GO TO THE IPL MAP OF THE
SUSPECTED T P ATTACHMENT.

010

THE DIAGNOSTIC DISKETTE CAN BE
RUN ON THE SYSTEM. ON THE
DISKETTE UNIT USED BY THE
CUSTOMER. THE MODE SWITCH ON THE
BASIC CONSOLE CAN BE IN THE SAME
SETTING AS THE CUSTOMER USES.

IS THE MODE SWITCH ON THE CONSOLE
IN THE SAME SETTING USED BY THE
CUSTOMER?

Y N

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011

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

DOES THE DISKETTE UNIT IPL O.K.?

Y N

012

- TEST 'MODE' SWITCH FOR CORRECT OPERATION.

```

+-----+
|PROCESS| GO TO MAP 107X, |
| UNIT  | ENTRY POINT A.  |
+-----+
| 4952  | 1071             |
| 4953  | 1071             |
| 4955  | 1071             |
| 495X  | 1072             |
+-----+
| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC.  |
+-----+

```

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6
K

013
(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:

A MESSAGE ON AN ALTERNATE CONSOLE,

OR

'XXXX' IN THE DATA LEDS.

- SEE THE CUSTOMER FOR THIS INFORMATION.

DID THE CUSTOMER DISKETTE IPL O.K.?

Y N

014

- 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

015

THE CUSTOMER DISKETTE IS SUSPECT.

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|||
||| PAGE 7 OF 9
|||

||| 016

||| 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.

||| 017

||| THE CUSTOMER DISKETTE IS
||| GOOD.

||| - VERIFY THE REPAIR.

||| 018

||| THE CUSTOMER DISKETTE IS
||| SUSPECT.

||| GO TO PAGE 6, STEP 013,
||| ENTRY POINT DC.

019

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

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

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

Y N

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9 8
N P

P
7

PAGE 8 OF 9

020

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

DOES THE DISKETTE UNIT IPL O.K.?

Y N

021

- TEST THE MODE SWITCH FOR CORRECT OPERATION.

PROCESS	GO TO MAP	UNIT	ENTRY POINT
	137X,		A.
4952		1071	
4953		1071	
4955		1071	
495X		1072	
IF NO REPAIR, GO TO MAP 2070, ENTRY POINT PC.			

022

THE IPL DEVICE USED BY THE CUSTOMER IS THE SUSPECTED IPL FAILING DEVICE.
GO TO PAGE 2, STEP 003, ENTRY POINT IG.

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MAP 0024-8

N
7

MAP 0024-9

PAGE 9 OF 9

023

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

CAN YOU IPL O.K. TO THE DISKETTE UNIT?

Y N

024

- TEST THE 'MODE' SWITCH FOR CORRECT OPERATION.

PROCESS UNIT	GO TO MAP 107X, ENTRY POINT A.
4952	1071
4953	1071
4955	1071
495X	1072

IF NO REPAIR, GO TO MAP 2070, ENTRY POINT PC.

025

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 6, STEP 013, ENTRY POINT DC.

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MAP 0024-9



B C
1 1

BASIC CONSOLE

MAP 0027-2

PAPER ONLY MAP

PAGE 2 OF 8

003

- CHECK THE 'LOAD' KEY FOR AN OPEN.
- CHECK THE 'LOAD' LED FOR AN OPEN.

```
+-----+
|PROCESSING| GO TO MAP: |
|UNIT IS: | |
|-----+-----|
| 495X      |1071,ENTRY POINT A|
| 4954/56   |1072,ENTRY POINT A|
|-----+-----|
|IF NO REPAIR: GO TO THIS MAP,|
|ENTRY POINT DP. |
+-----+
|
```

004

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 SETTING.

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

Y N

005

- SET THE 'IPL SOURCE' SWITCH TO THE CORRECT SETTING.
 - SEE THE 'MODE' SWITCH FOR THE CORRECT SETTING.
- GO TO PAGE 1, STEP 001,
ENTRY POINT A.

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MAP 0027-2

3
D

A D BASIC CONSOLE
 1 2 PAPER ONLY MAP

PAGE 3 OF 8

006
 THE IPL SOURCE IS IN THE
 CORRECT SETTING.

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

```

+-----+
| PROCESSING| GO TO MAP: |
| UNIT IS:  | |
+-----+
| 495X      |1071,ENTRY POINT A|
| 4954/56   |1072,ENTRY POINT A|
+-----+
| IF NO REPAIR: GO TO THIS MAP, |
| ENTRY POINT DP.                |
+-----+
  
```

007
 - SEE IF THE DISKETTE UNIT USED TO IPL THE DIAGNOSTIC IS A:

1. 4962 MODEL 02(F)/04 (DISKETTE PART OF COMBINED 4962 UNIT).
2. 4964 DISKETTE UNIT.
3. 4965 DISKETTE UNIT
4. 4966 (MORE THAN TWO DISKETTES)
5. 4952/4/6 MODEL C DISKETTE
6. 4952/4/6 MODEL D DISKETTE
7. 4956-EXX DISKETTE
7. MCA 5 1/4 DISKETTE
8. A MAINTENANCE LOAD DEVICE.

IS THE DISKETTE UNIT ONE OF THE ABOVE?

Y N

008
 - GO TO MAP 0028.
 - ENTRY POINT A.

4
 E

E
3

BASIC CONSOLE

MAP 0027-4

PAPER ONLY MAP

PAGE 4 OF 8

009

- INSTALL THE 'BASIC' DIAGNOSTIC DISKETTE.
- ENSURE THE DISKETTE UNIT IS READY.

IS THE ACTION COMPLETE?

Y N

010

- INSTALL THE 'BASIC' DIAGNOSTIC DISKETTE.
 - ENSURE THE DISKETTE UNIT IS READY.
- GO TO STEP 011,
ENTRY POINT ID.

011

(ENTRY POINT ID)

- SEE THE LOAD LED ON THE BASIC CONSOLE.
- PRESS AND RELEASE THE LOAD KEY.
- WAIT 15 SECONDS.
- SEE THE LOAD LED.
- SEE IF THE LOAD LED IS ON.

IS THE LOAD LED ON?

Y N

012

- AFTER THE LOAD KEY IS PRESSED AND RELEASED, THE RUN AND WAIT LEDS WILL FLASH ON AND OFF AS THE DIAGNOSTICS LOAD AND RUN.
- SEE IF THE RUN AND WAIT LEDS FLASH AS NOTED.

DO THE RUN AND WAIT LEDS FLASH?

Y N

7.5 5
F G H

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ECA40740 PECA33066

MAP 0027-4

G H
4 4

BASIC CONSOLE

MAP 0027-5

PAPER ONLY MAP

PAGE 5 OF 8

013

- SEE THE LED(S) THAT DID NOT GO ON.
- TEST THE LED(S) FOR AN OPEN.

```
+-----+
| PROCESSING|   GO TO MAP:   |
| UNIT IS:  |               |
+-----+
| 495X      |1071,ENTRY POINT A|
| 4954/56   |1072,ENTRY POINT A|
+-----+
| IF NO REPAIR: GO TO THIS MAP,|
| ENTRY POINT DP.              |
+-----+
```

014

- WAIT ONE (1) MINUTE.
- SEE THE RUN LED.
- SEE THE WAIT LED.

ARE THE WAIT AND RUN LEDS OFF?

Y N

015

- SEE IF THE WAIT LED IS ON.

IS THE WAIT LED ON?

Y N

7 6 6
J K L

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MAP 0027-5

K L BASIC CONSOLE

5 5

PAPER ONLY MAP

PAGE 6 OF 8

016

(ENTRY POINT DP)

OBTAIN THE FOLLOWING:

1. PROCESSING UNIT CARD(S).
2. DISKETTE UNIT ATTACHMENT CARD.
3. MAINTENANCE CONSOLE TOOL.

INSTALL THE MAINTENANCE CONSOLE:

 REMOVE ANY JUMPERS THAT WERE INSTALLED ON THE BASIC CONSOLE
 SEE THE PROCESSING UNIT MAINTENANCE INFORMATION MANUAL: 'MAINTENANCE CONSOLE ATTACHMENT PROCEDURE'.

SEE MLD VOLUME 1, PAXXX FOR THE PROCESSING UNIT TOP CARD CONNECTOR(S).

GO TO MAP 0020, ENTRY POINT A.

017

DCP IS LOADED.

A CONSOLE IS NEEDED TO RUN DIAGNOSTIC(S).

OBTAIN THE FOLLOWING:

MAINTENANCE CONSOLE TOOL.

INSTALL THE MAINTENANCE CONSOLE:

 REMOVE ANY JUMPERS THAT WERE INSTALLED ON THE BASIC CONSOLE
 SEE THE PROCESSING UNIT MAINTENANCE INFORMATION MANUAL: 'MAINTENANCE CONSOLE ATTACHMENT PROCEDURE'.

SEE THE MLD VOLUME 1, PAXXX FOR THE PROCESSING UNIT TOP CARD CONNECTOR(S).

(STEP 017 CONTINUES)

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F J
4 5

BASIC CONSOLE

MAP 0027-7

PAPER ONLY MAP

PAGE 7 OF 8

(STEP 017 CONTINUED)

GO TO MAP 0020,
ENTRY POINT A.

018

- ENSURE THE 'BASIC' DIAGNOSTIC
DISKETTE IS INSTALLED IN THE
DISKETTE UNIT.

IS THE 'BASIC' DIAGNOSTIC
DISKETTE INSTALLED?

Y N

019

- INSTALL THE CORRECT
DISKETTE.

GO TO PAGE 4, STEP 011,
ENTRY POINT ID.

020

WHEN THE WAIT AND RUN LEDS ARE
OFF, THE 'STOP' LED WOULD BE
ON, IF A CONSOLE WAS INSTALLED.
THIS INDICATES A PROCESSING
UNIT STOP.

GO TO PAGE 6, STEP 016,
ENTRY POINT DP.

021

OBTAIN THE FOLLOWING:

1. PROCESSING UNIT CARD(S).
2. DISKETTE UNIT ATTACHMENT
CARD.
3. MAINTENANCE CONSOLE TOOL.

INSTALL THE MAINTENANCE CONSOLE:

REMOVE ANY JUMPERS THAT WERE
INSTALLED ON THE BASIC CONSOLE
SEE THE PROCESSING UNIT
MAINTENANCE INFORMATION MANUAL :
'MAINTENANCE CONSOLE ATTACHMENT
PROCEDURE'.

(STEP 021 CONTINUES)

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MAP 0027-7

BASIC CONSOLE

MAP 0027-8

PAPER ONLY MAP

PAGE 8 OF 8

(STEP 021 CONTINUED)

SEE THE MLD VOLUME 1, PAXXX FOR
THE PROCESSING UNIT TOP CARD
CONNECTOR(S).

GO TO MAP 0020, ENTRY POINT A.

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MAP 0027-8

C
1

NO DISKETTE UNIT MAP

MAP 0028-2

PAPER ONLY MAP

PAGE 2 OF 4

003

- OBTAIN THE FOLLOWING:
C E MAINTENANCE CONSOLE TOOL.
MAINTENANCE PROGRAM LOAD DEVICE.

INSTALL THE MAINTENANCE TOOL(S):

SEE THE PROCESSING UNIT
MAINTENANCE INFORMATION MANUAL:
'MAINTENANCE CONSOLE ATTACHMENT
PROCEDURE'.

'MAINTENANCE PROGRAM LOAD DEVICE
ATTACHMENT PROCEDURE'.

SEE THE MLD VOLUME 1, PAXXX FOR
THE PROCESSING UNIT TOP CARD
CONNECTOR(S).

GO TO MAP 0020, ENTRY POINT A.

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MAP 0028-2

A B
1 1

NO DISKETTE UNIT MAP

MAP 0028-3

PAPER ONLY MAP

PAGE 3 OF 4

004

- SEE THE TABLE---->

- OBTAIN THE FOLLOWING:

1. THE SUSPECT CARD.
2. THE C E MAINTENANCE CONSOLE TOOL.

3. THE MAINTENANCE PROGRAM LOAD DEVICE.

INSTALL THE MAINTENANCE TOOL(S)

SEE THE PROCESSING UNIT MAINTENANCE INFORMATION MANUAL: 'MAINTENANCE CONSOLE ATTACHMENT PROCEDURE'.

'MAINTENANCE PROGRAM LOAD DEVICE ATTACHMENT PROCEDURE'.

SEE THE MLD VOLUME 1, PAXXX FOR THE PROCESSING UNIT TOP CARD CONNECTOR(S).

GO TO MAP 0020, ENTRY POINT A.

005

- SEE IF THERE A SUSPECT CARD, AS FOLLOWS:

- AN ATTACHMENT CARD.
- A DEVICE CARD.
- A STORAGE CARD.
- A PROCESSING UNIT CARD.
- AND SO FORTH.

DO YOU SUSPECT AN ATTACHMENT CARD?

Y N

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

'THE SUSPECT ATTACHMENT CARD'=:

DEVICE/ATTACHMENT SUSPECT	OBTAIN THE ATTACHMENT
4962 DISK	4962 CARD
4964 DISKETTE	4964 CARD
4966 DISKETTE	4966 CARD
4974 PRINTER	4974 CARD
4978 DISPLAY	4978 CARD
4979 DISPLAY	4979 CARD
4982 SENSOR I/O	4982 CARD
XXXX I/O DEVICE	49XX CARD
RPQ DEVICE	RPQ CARD

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4 4
D E

MAP 0028-3

PAPER ONLY MAP

PAGE 4 OF 4

006

- OBTAIN THE FOLLOWING:
THE MAINTENANCE PROGRAM LOAD
DEVICE.

INSTALL THE MAINTENANCE TOOL:

SEE THE PROCESSING UNIT
MAINTENANCE INFORMATION MANUAL:
'MAINTENANCE PROGRAM LOAD
DEVICE ATTACHMENT PROCEDURE'.
GO TO MAP 0020, ENTRY POINT A.

007

- SEE THE TABLE---->

OBTAIN THE FOLLOWING:

1. THE SUSPECT CARD.
2. THE MAINTENANCE PROGRAM LOAD
DEVICE.

INSTALL THE MAINTENANCE TOOL:

SEE THE PROCESSING UNIT
MAINTENANCE INFORMATION MANUAL :
'MAINTENANCE PROGRAM LOAD DEVICE
ATTACHMENT PROCEDURE.'.

GO TO MAP 0020, ENTRY POINT A.

'THE SUSPECT ATTACHMENT CARD'=:

DEVICE/ATTACHMENT SUSPECT	OBTAIN THE ATTACHMENT
4962 DISK	4962 CARD
4964 DISKETTE	4964 CARD
4966 DISKETTE	4966 CARD
4974 PRINTER	4974 CARD
4978 DISPLAY	4978 CARD
4979 DISPLAY	4979 CARD
4982 SENSOR I/O	4982 CARD
XXXX I/O DEVICE	49XX CARD
RPQ DEVICE	RPQ CARD

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PAPER ONLY MAP

PAGE 1 OF 4

ENTRY POINTS

FROM	ENTER THIS MAP		

MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER

0020	A	2	001

EXIT POINTS

EXIT THIS MAP		TO	

PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT

2	003	C571	A
4	010	C571	A
4	012	C571	A
4	014	C571	A
2	003	D872	A
4	010	D872	A
4	012	D872	A
4	014	D872	A
3	005	0020	TS
3	006	0020	TS
4	011	0020	TS
4	015	0020	TS

001
(ENTRY POINT A)

- SEE THE NOTE -->

A 4993/4943 CHANNEL ATTACHMENT IS
INSTALLED ON THE SYSTEM. SEE THE
4993/4943 TERMINATE CONSOLE.

FOR THE 4993/4943 POWER TO BE ON:

THE POWER ON SWITCH IS ON.
THE POWER ON LED IS ON.

CAUTION

- DO NOT USE THE 'ENABLE DISABLE'
LED AS THE 'POWER ON' LED.
- SEE IF THE 4993/4943 CHANNEL
ATTACHMENT POWER IS ON AS
NOTED.

IS THE 4993/4943 CHANNEL
ATTACHMENT POWER ON AS NOTED?

Y N

002

- SEE IF THE 4993/4943 CHANNEL
ATTACHMENT SWITCH IS OFF.

IS THE 4993/4943 CHANNEL
ATTACHMENT SWITCH OFF?

Y N

003

GO TO MAP D872,
ENTRY POINT A.

GO TO MAP C571,
ENTRY POINT A.

```

+-----+
|               |
|               |
+-----+
|               |
|               |
|               |
|               |
|               |
|               |
|               |
|               |
|               |
|               |
+-----+

```

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B
2

CHANNEL ATTACH

PAPER ONLY MAP

PAGE 3 OF 4

004

- SEE THE 4993/4943 TERMINATE
CONSOLE.
- SEE THE 'ENABLE - DISABLE'
SWITCH.

IS THE CONSOLE SWITCH IN
'DISABLE'?

Y N

005

THE CONSOLE SWITCH IS IN
'ENABLE'.

- SET THE CONSOLE SWITCH TO
'DISABLE'.

THE 4993/4943 POWER IS OFF.
THE CONSOLE SWITCH IS IN
'DISABLE'.

WHEN THE MAP(S) INSTRUCT YOU TO
'POWER ON' THE SYSTEM, DO NOT
'POWER ON' THE 4993/4943.

THE ONLY MAP(S) THAT CAN
INSTRUCT YOU TO POWER ON THE
4993 IS THE 'D8XX' MAP(S).

THE ONLY MAP(S) THAT CAN
INSTRUCT YOU TO POWER ON THE
4943 IS THE 'C5XX' MAP(S).

GO TO MAP 0020, ENTRY POINT TS.

C

A C
2

MAP 0029-3

006

THE 4993/4943 POWER IS OFF.
THE CONSOLE SWITCH IS IN
'DISABLE'.

WHEN THE MAP(S) INSTRUCT YOU TO
'POWER ON' THE SYSTEM, DO NOT
'POWER ON' THE 4993/4943.

THE ONLY MAP(S) THAT CAN
INSTRUCT YOU TO POWER ON THE
4993 IS THE 'D8XX' MAP(S).

THE ONLY MAP(S) THAT CAN
INSTRUCT YOU TO POWER ON THE
4943 IS THE 'C5XX' MAP(S).

GO TO MAP 0020, ENTRY POINT TS.

007

- SEE THE 4993/4943 TERMINATE
CONSOLE.
- SEE THE 'ENABLE - DISABLE'
SWITCH.

IS THE CONSOLE SWITCH IN
'DISABLE'?

Y N

008

THE CONSOLE SWITCH IS IN
'ENABLE'.

- SEE THE 4993/4943 TERMINATE
CONSOLE.

IS THE 'DISABLE' LED 'ON'?

Y N

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4 4 4
D E F

MAP 0029-3

F CHANNEL ATTACH
3 PAPER ONLY MAP
PAGE 4 OF 4

009
- SET THE SWITCH TO 'DISABLE'.
- SEE THE CUSTOMER FOR THE AMOUNT
OF TIME NEEDED FOR THE SERIES 1
TO DISABLE.
- WAIT FOR THE 'DISABLE' LED TO
GO ON.

IS THE 'DISABLE' LED 'ON'?

Y N

010
| THE SWITCH IS IN 'DISABLE', AND
| THE 'DISABLE' LED IS OFF.
GO TO MAP D872, ENTRY POINT A.
GO TO MAP C571, ENTRY POINT A.

011
THE CHANNEL ATTACHMENT IS OFF
LINE.

- POWER OFF THE 4993/4943.

WHEN THE MAP(S) INSTRUCT YOU TO
'POWER ON' THE SYSTEM, DO NOT
'POWER ON' THE 4993/4943.

THE ONLY MAP(S) THAT CAN INSTRUCT
YOU TO POWER ON THE 4993 IS THE
'D8XX' MAP(S).

THE ONLY MAP(S) THAT CAN INSTRUCT
YOU TO POWER ON THE 4943 IS THE
'C5XX' MAP(S).

GO TO MAP 0020, ENTRY POINT TS.

D E MAP 0029-4
3 3

012
| THE SWITCH IS IN 'ENABLE', AND
| THE 'DISABLE' LED IS ON.

GO TO MAP D872, ENTRY POINT A.

GO TO MAP C571, ENTRY POINT A.

013

- SEE THE 4993/4943 TERMINATE
CONSOLE.

IS THE 'DISABLE' LED 'ON'?

Y N

014
| THE SWITCH IS IN 'DISABLE', AND
| THE 'DISABLE' LED IS OFF.

GO TO MAP D872, ENTRY POINT A.

GO TO MAP C571, ENTRY POINT A.

015

THE CHANNEL ATTACHMENT IS OFF
LINE.

- POWER OFF THE 4993/4943.

WHEN THE MAP(S) INSTRUCT YOU TO
'POWER ON' THE SYSTEM, DO NOT
'POWER ON' THE 4993/4943.

THE ONLY MAP(S) THAT CAN INSTRUCT
YOU TO POWER ON THE 4993 IS THE
'D8XX' MAP(S).

THE ONLY MAP(S) THAT CAN INSTRUCT
YOU TO POWER ON THE 4943 IS THE
'C5XX' MAP(S).

GO TO MAP 0020, ENTRY POINT TS.

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MAP 0029-4

C
2

4978 CONSOLE

MAP 0030-3

PAPER ONLY MAP

PAGE 3 OF 13

004
(ENTRY POINT PQ)

THE ALTERNATE CONSOLE FUNCTION IS ASSIGNED TO A 4978 RPQ DISPLAY. THE 4978 WILL SUPPORT MORE THAN ONE KEYBOARD. ANY KEY CAN BE ANY SCAN CODE. DCP MUST BE INSTRUCTED WHICH KEY IS ASSOCIATED WITH EACH FUNCTION AND CHARACTER USED BY THE ALTERNATE CONSOLE.

MLD VOLUME 01 SD8XX HAS THE KEYBOARD(S) FOR THE 4978(S) ON THIS SYSTEM.

THE KEYS USED FOR OPERATION OF THE ALTERNATE CONSOLE ARE INDICATED IN THE TABLE. ALL OTHER KEYS ARE NOT USED BY DCP. NOTE THE KEYS THAT ARE ASSIGNED TO ALTERNATE CONSOLE FUNCTION(S) AND CHARACTER(S).

AFTER THE PROMPT MESSAGE IS DISPLAYED, PRESS THE KEY YOU WANT TO ASSIGN TO THAT PROMPT.

WHEN DCP HAS RECEIVED THE INTERRUPT AND SCAN CODE FOR THE KEY, IT WILL PROMPT EACH FUNCTION AND CHARACTER KEY NEEDED FOR EACH OF THE OTHER ALTERNATE CONSOLE KEYS.

WHEN THE 'Z' KEY HAS BEEN PRESSED, DCP WILL WRITE THE KEYBOARD DESCRIPTION TABLE TO DISKETTE AND CONTINUE RUNNING.

IS A PROGRAMMER OR C E MAINTENANCE CONSOLE INSTALLED ON THE PROCESSING UNIT?

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

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5 4
D E

MAP 0030-3

E
3

4978 CONSOLE

MAP 0030-4

PAPER ONLY MAP

PAGE 4 OF 13

005

- SEE BINDER MLD VOLUME 01, SD8XX THAT HAS A TABLE OF THE KEYBOARD FOR THIS 4978.
- NOTE THE KEY THAT IS ASSIGNED TO THE 'ATTENTION' FUNCTION KEY.
- PRESS THE KEY THAT IS ASSIGNED THE 'ATTENTION' FUNCTION KEY.

DOES THE DISPLAY MESSAGE EQUAL 'ENTER'?

Y N

006

IF THE 4978 RPQ DOES NOT DISPLAY 'ENTER' IN 15 SECONDS, THE KEY CAN BE FAILING.

GO TO PAGE 7, STEP 021, ENTRY POINT KD.

007

THE 'ATTENTION' KEY IS ASSIGNED. NOTE THE KEY TO BE ASSIGNED THE 'ENTER' FUNCTION.

- PRESS THE KEY TO BE ASSIGNED THE 'ENTER' FUNCTION.

DOES THE DISPLAY MESSAGE EQUAL

'PROGRAM FUNCTION (P F)'?

Y N

008

IF THE 4978 RPQ DOES NOT DISPLAY 'PROGRAM FUNCTION (P F)' IN 15 SECONDS, THE KEY CAN BE FAILING.

GO TO PAGE 7, STEP 021, ENTRY POINT KD.

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5
F

MAP 0030-4

D F
3 4

4978 CONSOLE

MAP 0030-5

PAPER ONLY MAP

PAGE 5 OF 13

009

NOTE THE KEY TO BE ASSIGNED THE
'P F' FUNCTION.

- PRESS THE KEY TO BE ASSIGNED
THE 'P F' FUNCTION.

DOES THE DISPLAY MESSAGE PROMPT
SOME OTHER KEY?

Y N

010

IF THE 4978 RPQ DOES NOT
DISPLAY A PROMPT MESSAGE IN
15 SECONDS, THE KEY CAN BE
FAILING.

GO TO PAGE 7, STEP 021,
ENTRY POINT KD.

011

GO TO PAGE 9, STEP 028,
ENTRY POINT AK.

012

- SEE BINDER MLD VOLUME 01, SD8XX
THAT HAS A TABLE OF THE
KEYBOARD FOR THIS 4978.

- NOTE THE KEY THAT IS ASSIGNED
TO THE 'ATTENTION' FUNCTION
KEY.

- PRESS THE KEY THAT IS ASSIGNED
TO THE 'ATTENTION' FUNCTION
KEY.

DOES THE DISPLAY MESSAGE EQUAL
'ENTER'?

Y N

8 6
G H

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MAP 0030-5

H
5

4978 CONSOLE

MAP 0030-6

PAPER ONLY MAP

PAGE 6 OF 13

013

- WAIT 15 SECONDS.
- SEE THE DATA LEDS.

DO THE DATA LEDS EQUAL '3817'?

Y N

014

- SEE THE DATA LEDS.

DO THE DATA LEDS EQUAL '3801'?

Y N

015

(ENTRY POINT OL)

- GO TO THE 4978 RPQ PROLOG FOR THE OFFLINE DIAGNOSTIC(S).
- RUN THE 4978 RPQ OFF LINE DIAGNOSTIC(S).

DID USING THE OFFLINE DIAGNOSTIC(S) REPAIR THE PROBLEM?

Y N

016

- EXCHANGE THE 4978 ATTACHMENT CARD.

DID THE 4978 ATTACHMENT CARD REPAIR THE PROBLEM?

Y N

017

- USE THE FAILING SYMPTOM FROM THE 4978 RPQ MAP AS THE 'FAILING INDICATION' AND:
GO TO MAP 0070,
ENTRY POINT A.

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7 7 7 7
J K L M

MAP 0030-6

J K L M 4978 CONSOLE
6 6 6 6

MAP 0030-7

PAPER ONLY MAP

PAGE 7 OF 13

018

- VERIFY THE REPAIR.

019

- VERIFY THE REPAIR.

020

THE KEY WORKED.

THE ATTACHMENT CARD DID NOT
RETURN A 'CC 4' TO THE
PROCESSING UNIT.

THE ATTACHMENT CARD IS SUSPECT.
GO TO MAP 0023, ENTRY POINT CE.

021

(ENTRY POINT KD)

THE KEY JUST PRESSED CAN BE
FAILING.

- PRESS ANY OTHER KEY.

DID THIS KEY FAIL?

Y N

022

THE FAILURE IS THE FIRST KEY
PRESSED.

GO TO PAGE 6, STEP 015,
ENTRY POINT OL.

023

MORE THAN ONE KEY IS FAILING.

THIS IS THE ERROR SYMPTOM.

GO TO PAGE 6, STEP 015,
ENTRY POINT OL.

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MAP 0030-7

G
5

4978 CONSOLE

MAP 0030-8

PAPER ONLY MAP

PAGE 8 OF 13

024

THE DISPLAY MESSAGE IS 'ENTER'.
THE 'ATTENTION' FUNCTION KEY IS
ASSIGNED.

- SEE THE KEY THAT IS ASSIGNED TO
THE 'ENTER' FUNCTION KEY.
- PRESS THE KEY THAT IS ASSIGNED
TO THE 'ENTER' FUNCTION KEY.

DOES THE DISPLAY MESSAGE EQUAL
'PROGRAM FUNCTION' (PF)?

Y N

| 025

| GO TO PAGE 7, STEP 021,
| ENTRY POINT KD.

026

THE DISPLAY MESSAGE IS 'PROGRAM
FUNCTION (P F)'.
THE 'ENTER' FUNCTION KEY IS
ASSIGNED.

NOTE THE KEY THAT IS ASSIGNED TO
THE 'P F' FUNCTION KEY.

- PRESS THE KEY THAT IS ASSIGNED
TO THE 'P F' FUNCTION KEY.

DOES THE DISPLAY PROMPT SOME
OTHER KEY TO BE ASSIGNED?

Y N

| 027

| GO TO PAGE 7, STEP 021,
| ENTRY POINT KD.

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9
N

MAP 0030-8

N
8

4978 CONSOLE

MAP 0030-9

PAPER ONLY MAP

PAGE 9 OF 13

028

(ENTRY POINT AK)

NOTE THE KEY THAT IS ASSIGNED TO
THE PROMPT MESSAGE.

- PRESS THE KEY THAT IS ASSIGNED
TO THE PROMPT MESSAGE.

DOES THE DISPLAY MESSAGE PROMPT
SOME OTHER KEY?

Y N

029

- WAIT 15 SECONDS.
IF THE DISPLAY DOES NOT PROMPT
THE NEXT KEY,
GO TO PAGE 7, STEP 021,
ENTRY POINT KD.

030

- SEE THE DISPLAY MESSAGE.

DOES THE DISPLAY MESSAGE EQUAL
'Z'?

Y N

031

GO TO STEP 028,
ENTRY POINT AK.

1
0
P

25MAR83 PN6060922

EC337369 PEC466795

MAP 0030-9

A P 4978 CONSOLE
1 9

PAPER ONLY MAP

PAGE 10 OF 13

032

THE DISPLAY MESSAGE IS 'Z'.
NOTE THE KEY THAT IS ASSIGNED
TO THE 'Z' KEY.

- PRESS THE KEY THAT IS
ASSIGNED TO THE 'Z' KEY.
- WAIT ONE (1) MINUTE.

DOES THE DISPLAY MESSAGE EQUAL
'Z'?

Y N

033

THE KEYBOARD DESCRIPTION IS
COMPLETE.

GO TO MAP 0020,
ENTRY POINT PD.

034

GO TO PAGE 7, STEP 021,
ENTRY POINT KD.

035

THIS MESSAGE IS ON THE SCREEN FOR
YOU TO CHANGE THE KEYS ASSIGNED
ON THE 4978 DISPLAY. IF YOU WANT
TO USE THE KEYS ASSIGNED WITHOUT
CHANGE,

- ANSWER THE FOLLOWING QUESTION
'NO'.

DO YOU WANT TO CHANGE THE 4978
RPQ KEYBOARD DESCRIPTION?

Y N

036

YOU DO NOT WANT TO CHANGE THE
KEYS ASSIGNED.

GO TO MAP 0020, ENTRY POINT PD.

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EC337369 PEC466795

1
1
Q

T 4978 CONSOLE
1
1 PAPER ONLY MAP
|
| PAGE 12 OF 13
|

MAP 0030-12

039
(ENTRY POINT LR)

YOU WANT TO CHANGE THE 4978
KEYBOARD DESCRIPTION. A KEY WAS
NOT PRESSED IN 15 SECONDS.

- PRESS AND RELEASE THE LOAD KEY.

WAIT FOR THE FOLLOWING MESSAGE ON
THE DISPLAY:
'PRESS ANY KEY IN 15 SECONDS TO
CHANGE KEYBOARD DESCRIPTION'

- PRESS ANY KEYBOARD KEY.

AFTER THE KEY IS PRESSED, A THREE
LINE MESSAGE IS DISPLAYED.
'DESCRIBE KEYBOARD
PRESS THE KEY REQUESTED
ATTENTION'

IS THIS MESSAGE ON THE 4978 RPQ
DEVICE?

Y N

|
| 040
| GO TO PAGE 6, STEP 015,
| ENTRY POINT OL.
|

041
GO TO PAGE 3, STEP 004,
ENTRY POINT PQ.

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EC337369 PEC466795

MAP 0030-12

R S 4978 CONSOLE
1 1
1 1 PAPER ONLY MAP

MAP 0030-13

| | PAGE 13 OF 13

| |
| |
| | 042
| | - SEE THE DATA LEDS.

| | DO THE DATA LEDS EQUAL '3816'
| | OR '3817'?

| | Y N

| | | 043
| | | GO TO PAGE 12, STEP 039,
| | | ENTRY POINT LR.

| | | 044
| | | GO TO PAGE 6, STEP 015,
| | | ENTRY POINT OL.

| | 045
| | GO TO PAGE 3, STEP 004,
| | ENTRY POINT PQ.

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EC337369 PEC466795

MAP 0030-13

C
1

3101 ALT CONSOLE

MAP 0031-2

PAPER ONLY MAP

PAGE 2 OF 15

003

THE CONSOLE INSTALLED IS A 316X.

- ENSURE TERMINAL IS POWERED ON
- ENSURE CORRECT CABLE ----->
- REMOVE PERSONALITY CARTRIDGE,
IF INSTALLED
- PRESS CTRL + SELECT/SETUP KEY
THE SETUP SCREEN WILL BE
DISPLAYED.

ATTACHMENT	CABLE USED
TTY EIA	1632924
MFA 422A	6844552
PMLC 232C	1632211 + 5640736
ACCA 232C	1632211 + 5640736
00-2350 422	6844552

DID THE SETUP SCEN APPEAR?

Y N

004

THE 316X IS DEFECTIVE.
USE SOME OTHER DEVICE FOR A AN
ALTERNATE CONSOLE.

3
D

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MAP 0031-2

D
2

3101 ALT CONSOLE

MAP 0031-3

PAPER ONLY MAP

PAGE 3 OF 15

005

USE THE FOLLOWING CHART TO RECORD THE CUSTOMER CONSOLE SETUP AND THEN SETUP THE CONSOLE AS INDICATED FOR THE ATTACHMENT. USE THE CURSER KEYS TO SELECT OPTION USE THE SPACE KEY TO CHANGE THE OPTION

AFTER MAINTENANCE IS COMPLETE USE THIS CHART TO RESTORE THE CONSOLE FOR CUSTOMER USE.

SERIES 1 DEVICE ATTACHMENT							FILL IN
3161/3163 SETUP OPTIONS	MFA	TTY	PMLC	ACCA	RPQ D0-2350		CUSTOMER SETUP
MACHINE MODE	3101	3101	3101	3101	3101		
OPERATING MODE	CHAR	ECHO	CHAR	CHAR	CHAR		
INTERFACE	422A	232C	232C	232C	422A		
LINE CONTROL	**	PRTS	PRTS	PRTS	**		
LINE SPEED	9600	***	9600	2400	9600		
PARITY	ODD	MARK	ODD	SPACE	ODD		
TURNAROUND	CR	CR	CR	CR	CR		
STOP BIT	1	1	1	2	1		
WORD LENGTH	7 *	7 *	7 *	7 *	7 *		
RESPONSE DELAY	**,*	**,*	**,*	**,*	**,*		
BREAK SIGNAL	**,*	**,*	**,*	**,*	**,*		

- * = MAY NOT BE AN OPTION ON SOME MODELS OF 3163'S
- ** = DON'T CARE
- *** = LINE SPEED MUST MATCH THE SPEED JUMPERS ON THE ATTACHMENT CARD.

IS THE SETUP DISPLAY CORRECT?

Y N

006

CORRECT THE DISPLAY OR USE SOME OTHER DEVICE AS AN ALTERNATE CONSOLE

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MAP 0031-3

4
E

E
3

3101 ALT CONSOLE

MAP 0031-4

PAPER ONLY MAP

PAGE 4 OF 15

007

- PRESS THE SEND KEY TO SAVE THE SETUP
- PRESS THE SELECT KEY

SETUP OPTIONS ARE ON LINE 25 OF THE DISPLAY.

USE THE FOLLOWING CHART TO RECORD THE CUSTOMER CONSOLE SETUP AND THEN SETUP THE CONSOLE AS INDICATED FOR THE ATTACHMENT.

AFTER MAINTENANCE IS COMPLETE USE THIS CHART TO RESTORE THE CONSOLE FOR CUSTOMER USE.

- USE THE CURSER LEFT/RIGHT KEY TO SELECT OPTION
- USE THE SPACE KEY TO CHANGE THE OPTION
- WHEN OPTIONS ARE SET CORRECT PRESS THE SEND KEY.

	SERIE 1 DEVICE ATTACHMENT					FILL IN
3161/3163 SETUP OPTIONS	MFA	TTY	PMLC	ACCA	RPQ D0-2350	CUSTOMER SETUP
SCROLL (JUMP=ON)	JUMP	JUMP	JUMP	JUMP	JUMP	
RETURN	**	CR	CR-LF	**	CR	
LINWRAP	**	OFF	OFF	ON	OFF	
AUTO LF	ON	OFF	ON	ON	ON	
SEND	**	**	**	**	**	
NULL SUPP	**	**	**	**	**	

- ** = DON'T CARE

GO TO PAGE 15, STEP 027,
ENTRY POINT TH.

30MAR87 PMS060923

ECA71494 PECA40740

MAP 0031-4

B
1

3101 ALT CONSOLE

MAP 0031-5

PAPER ONLY MAP

PAGE 5 OF 15

008

THE CONSOLE INSTALLED IS A 315X.

- ENSURE TERMINAL IS POWERED ON
 - ENSURE CORRECT CABLE ----->
 - ENSURE PERSONALITY CARTRIDGE IS INSTALLED IF CONNECTED TO A RS422A INTERFACE.
 - PRESS CTRL + SETUP KEY
- THE SETUP SCREEN WILL BE DISPLAYED.

ATTACHMENT	CABLE USED
TTY EIA	1632924
MFA 422A	6844552
PMLC 232C	1632211 + 5640736
ACCA 232C	1632211 + 5640736
DO-2350 422	6844552

DID THE SETUP SCEEN APPEAR?

Y N

009

THE 315X IS DEFECTIVE.
USE SOME OTHER DEVICE FOR A AN ALTERNATE CONSOLE.

30MAR87 PN6060923

ECA71494 PECA40740

MAP 0031-5

6
F

F
5

3101 ALT CONSOLE

MAP 0031-6

PAPER ONLY MAP

PAGE 6 OF 15

010

USE THE FOLLOWING CHART TO RECORD THE CUSTOMER CONSOLE SETUP AND THEN SETUP THE CONSOLE AS INDICATED FOR THE ATTACHMENT.

USE THE CURSER KEYS TO SELECT OPTION

USE THE SPACE KEY TO CHANGE THE OPTION

USE THE SEND KEY TO CHANGE SCREENS

AFTER MAINTENANCE IS COMPLETE USE THIS CHART TO RESTORE THE CONSOLE FOR CUSTOMER USE.

315X SETUP OPTIONS	SERIES 1 DEVICE ATTACHMENT					RESTORE/ FILL IN CUSTOMER SETUP
	MFA	TTY	PMLC	ACCA	RPQ D0-2350	
MACHINE MODE	3101	3101	3101	3101	3101	
SCREEN	NCRMAL	NORMAL	NORMAL	NORMAL	NORMAL	
ROW AND COLUMN	24X80	24X80	24X80	24X80	24X80	
AUTO LF	ON	OFF	ON	ON	ON	
OPERATE MODE	CHAR	CHAR	CHAR	CHAR	CHAR	
LINE SPEED	9600	****	9600	2400	9600	
WORD LENTH	7	7	7	7	7	
PARITY	ODD	MARK	ODD	SPACE	ODD	
STCP BITS	1	1	1	2	1	
TURNAROUND CHAR	CR	CR	CR	CR	CR	
LINE CONTROL		PRTS	PRTS	PRTS		

OTHER SELECTIONS MAY BE LEFT AS IS.

FUNCTION SCREEN = RESET TERMINAL - PRESS SPACE BAR

**** LINE SPEED MUST MATCH THE JUMPERS ON ATTACHMENT CARD

GO TO PAGE 15, STEP 027,
ENTRY POINT TH.

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ECA71494 PECA40740

MAP 0031-6

A
1

3101 ALT CONSOLE

PAPER ONLY MAP

PAGE 7 OF 15

011

3101 PAGE CONTROL IS NOT
SUPPORTED BY STANDARD (DEFAULT)
CONSOLE SUPPORT. USE THE
PROGRAMMER OR C E CONSOLE STOP
KEY, IF INSTALLED.

- SEE THE INSTALLED 3101 CONSOLE.
- SEE THE 3101 CABLE.
- SEE IF THE 3101 CONSOLE IS
CONNECTED TO A TTY ATTACHMENT
CARD.

IS THE 3101 CONSOLE CONNECTED AS
NOTED?

Y N

012

- SEE THE INSTALLED 3101
CONSOLE.
- SEE IF THE 3101 CONSOLE IS
CONNECTED TO A 1310
MULTIFUNCTION ATTACHMENT
CARD.

IS THE 3101 CONSOLE CONNECTED
AS NOTED?

Y N

013

- SEE THE INSTALLED 3101
CONSOLE.
- SEE IF THE 3101 CONSOLE IS
CONNECTED TO AN FPMLC
ADAPTER CARD.

IS THE 3101 CONSOLE CONNECTED
AS NOTED?

Y N

1 1
2 2 9
G H J K

K

MAP 0031-7

014

- SEE THE INSTALLED 3101 CONSOLE.
- SEE IF THE 3101 CONSOLE IS
CONNECTED TO AN ACCA SL OR ML
CARD.

IS THE 3101 CONSOLE CONNECTED AS
NOTED?

Y N

015

- SEE THE INSTALLED 3101
CONSOLE.
- SEE IF THE 3101 CONSOLE IS
CONNECTED TO RPQ D02350.

IS THE 3101 CONSOLE CONNECTED
AS NOTED?

Y N

016

- THE 3101 CONSOLE IS CONNECTED
TO AN ATTACHMENT, CONTROLLER
OR ADAPTER CARD NOT SUPPORTED
BY DCP.
- GO TO PAGE 15, STEP 027,
ENTRY POINT TH.

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ECA71494 PECA40740

9 8
L M

MAP 0031-7

M
7

3101 ALT CONSOLE

MAP 0031-8

PAPER ONLY MAP

PAGE 8 OF 15

017

THE 3101 CONSOLE IS CONNECTED TO
RPQ D02350.

- ENSURE CABLE PART NUMBER
6844552 IS USED.
- ENSURE THE SWITCHES ARE AS
NOTED BY THE 'X'.
- DO NOT CHANGE THE POSITIONS
THAT ARE BLANK.
- LEAVE THEM IN THE POSITION
FOUND.
- WHEN DONE, RETURN THE MOVED
SWITCHES TO THE ORIGINAL
POSITION.

```
+-----+
|                RPQ D02350                |
| 12345678 12345678 12345678 12345678 |
|  X X X X      X X      X XX X |
| X X      X      XX XX |
|      X = THE SWITCH POSITION. |
| 3101 BAUD RATE IS 9600 IN ABOVE. |
+-----+
```

GO TO PAGE 15, STEP 027,
ENTRY POINT TH.

30MAR87 PN6060923

ECA71494 PECA40740

J L
7 7

3101 ALT CONSOLE

MAP 0031-9

PAPER ONLY MAP

PAGE 9 OF 15

018

THE 3101 CONSOLE IS CONNECTED
TO AN ACCA SL OR ML CARD.

- ENSURE CABLE PART NUMBER
1632211 AND 5640736 IS USED.
- ENSURE THE SWITCHES ARE AS
NOTED BY THE 'X'.
- DO NOT CHANGE THE POSITIONS
THAT ARE BLANK.
- LEAVE THEM IN THE POSITION
FOUND.
- WHEN DONE, RETURN THE MOVED
SWITCHES TO THE ORIGINAL
POSITION.

```
+-----+
|                ACCA SL OR ML                |
| 12345678 12345678 12345678 12345678 |
|   XXX  X           X X           XXX  XXX |
|  X           XXX           X  X           |
|           X = THE SWITCH POSITION.         |
| 3101 BAUD RATE IS 2400 IN ABOVE.         |
+-----+
```

IF 'LINE CHECK 2' MESSAGE,
ENSURE DTR JUMPER IS INSTALLED.
GO TO PAGE 15, STEP 027,
ENTRY POINT TH.

019

THE 3101 CONSOLE IS CONNECTED TO
AN FPMLC ADAPTER CARD.

- SEE IF THE FPMLC IS CONNECTED
TO AN RS232C.

IS THE 3101 CONSOLE CONNECTED AS
NOTED?

Y N

| |
| |
| |
| |
| |

1 1
1 0
N P

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ECA71494 PECA40740

MAP 0031-9

P
9

3101 ALT CONSOLE

MAP 0031-10

PAPER ONLY MAP

PAGE 10 OF 15

020

THE 3101 IS CONNECTED AS ONE OF THE FOLLOWING:

1. THE 3101 SUPPLIES CURRENT.
2. THE FPMLC SUPPLIES CURRENT.
3. BOTH SUPPLY THE CURRENT.

- ENSURE CABLE PART NUMBER 6839455 IS USED.
- ENSURE THE SWITCHES ARE AS NOTED BY THE 'X'.
- DO NOT CHANGE THE POSITIONS THAT ARE BLANK.
- LEAVE THEM IN THE POSITION FOUND.
- WHEN DONE, RETURN THE MOVED SWITCHES TO THE ORIGINAL POSITION.

```
+-----+
|                FPMLC, NOT RS232C                |
| 12345678 12345678 12345678 12345678 |
|  X X X  X      X X      X  XX  X |
| X X      X      XX  XX |
|      X = THE SWITCH POSITION. |
| 3101 BAUD RATE IS 9600 IN ABOVE. |
+-----+
```

GO TO PAGE 15, STEP 027,
ENTRY POINT TH.

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ECA71494 PECA40740

MAP 0031-10

N
9

3101 ALT CONSOLE

MAP 0031-11

PAPER ONLY MAP

PAGE 11 OF 15

021

THE FPMLC IS CONNECTED TO AN
RS232C.

- ENSURE CABLE PART NUMBER
1632211 AND 5640736 IS USED.
- ENSURE THE SWITCHES ARE AS
NOTED BY THE 'X'.
- DO NOT CHANGE THE POSITIONS
THAT ARE BLANK.
- LEAVE THEM IN THE POSITION
FOUND.
- WHEN DONE, RETURN THE MOVED
SWITCHES TO THE ORIGINAL
POSITION.

```
+-----+
|               FPMLC USING RS232C               |
| 12345678 12345678 12345678 12345678 |
|  XXX X  X      X X      X  XX X  |
| X           X           XX  XX  |
|           X = THE SWITCH POSITION.           |
| 3101 BAUD RATE IS 9600 IN ABOVE.           |
+-----+
```

- ENSURE DTR JUMPER IS INSTALLED.
- ENSURE EIA JUMPER IS INSTALLED.
- ENSURE HI SPEED JUMPER IS
INSTALLED.

GO TO PAGE 15, STEP 027,
ENTRY POINT TH.

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MAP 0031-11

G H
7 7

3101 ALT CONSOLE

MAP 0031-12

PAPER ONLY MAP

PAGE 12 OF 15

022

THE 3101 CONSOLE IS CONNECTED
TO A 1310 MULTIFUNCTION
ATTACHMENT CARD.

- ENSURE CABLE PART NUMBER 6844552 IS USED.
- ENSURE THE SWITCHES ARE AS NOTED BY THE 'X'.
- DO NOT CHANGE THE POSITIONS THAT ARE BLANK.
- LEAVE THEM IN THE POSITION FOUND.
- WHEN DONE, RETURN THE MOVED SWITCHES TO THE ORIGINAL POSITION.

```

+-----+
|           1310 MULTIFUNCTION           |
| 12345678 12345678 12345678 12345678 |
|  X X  X  X      X X      X  XX  X  |
|  X X      X      XX  XX  |
|           X = THE SWITCH POSITION.      |
| 3101 BAUD RATE IS 9600 IN ABOVE.      |
+-----+

```

GO TO PAGE 15, STEP 027,
ENTRY POINT TH.

023

THE 3101 CONSOLE IS CONNECTED TO
A TTY ATTACHMENT CARD.

- SEE THE TTY CARD INTERFACE JUMPERS.
- SEE IF THE CARD IS JUMPERED AS AN EIA INTERFACE.

IS THE TTY CARD JUMPERED AS THE
EIA INTERFACE?

Y N

| |
| |
| |
| |
| |

1 1
4 3
Q R

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ECA71494 PECA40740

MAP 0031-12

R 3101 ALT CONSOLE
1
2 PAPER ONLY MAP
|
| PAGE 13 OF 15
|

024
THE TTY CARD IS JUMPERED USING
THE CURRENT INTERFACE.

- ENSURE CABLE PART NUMBER 6839455 IS USED.
- ENSURE THE SWITCHES ARE AS NOTED BY THE 'X'.
- DO NOT CHANGE THE POSITIONS THAT ARE BLANK.
- LEAVE THEM IN THE POSITION FOUND.
- WHEN DONE, RETURN THE MOVED SWITCHES TO THE ORIGINAL POSITION.

```

+-----+
|          TTY - CURRENT INTERFACE          |
| 12345678 12345678 12345678 12345678 |
|   X  X           X XX                    |
| XXX      X      X      *****          |
|           X = THE SWITCH POSITION.         |
| * 3101 BAUD RATE MUST MATCH TTY CARD    |
+-----+

```

GO TO PAGE 15, STEP 027,
ENTRY POINT TH.

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Q 3101 ALT CONSOLE
1
2 PAPER ONLY MAP
|
| PAGE 14 OF 15
|

025
THE TTY CARD IS JUMPERED USING
THE EIA INTERFACE.

- ENSURE CABLE PART NUMBER 1632924 IS USED.
- ENSURE THE SWITCHES ARE AS NOTED BY THE 'X'.
- DO NOT CHANGE THE POSITIONS THAT ARE BLANK.
- LEAVE THEM IN THE POSITION FOUND.
- WHEN DONE, RETURN THE MOVED SWITCHES TO THE ORIGINAL POSITION.

```

+-----+
|           TTY - EIA INTERFACE           |
| 12345678 12345678 12345678 12345678 |
|   X   X           X  XX              |
| XX           X       X       ***** |
|           X = THE SWITCH POSITION.      |
| * 3101 BAUD RATE MUST MATCH TTY CARD  |
+-----+

```

ARE THE SWITCHES AS NOTED ABOVE?

Y N

| 026
| - SET THE SWITCHES AS NOTED
| ABOVE.
| GO TO PAGE 15, STEP 027,
| ENTRY POINT TH.

1
5
S

S 3101 ALT CONSOLE
1
4 PAPER ONLY MAP
| PAGE 15 OF 15
|

MAP 0031-15

027
(ENTRY POINT TH)

- SEE IF A PROGRAMMER OR C E
CONSOLE IS INSTALLED.

IS A PROGRAMMER OR C E CONSOLE
INSTALLED?

Y N

| 028
| GO TO MAP 002G, ENTRY POINT LK.
|

029
GO TO MAP 002O, ENTRY POINT PI.

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MAP 0031-15

PAPER ONLY MAP

PAGE 1 OF 26

ENTRY POINTS

FROM ENTER THIS MAP			
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
0020	A	1	001
0021	A	1	001
0022	A	1	001
0023	A	1	001
0024	A	1	001
0030	A	1	001
0072	A	1	001
0170	B	6	009
2000	A	1	001
2070	A	1	001
2071	A	1	001
3871	A	1	001

EXIT POINTS

EXIT THIS MAP		TO	
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
12	031	0020	A
1	002	0071	A
10	020	0071	A
11	027	0071	A
13	032	0071	A
13	033	0071	A
25	091	0071	A
25	093	0071	A
25	094	0071	A
14	036	0071	PR
16	039	0071	PR
23	080	0071	PR
21	071	0072	A
22	074	0072	A
19	058	1470	A
24	087	1470	A
24	088	1470	A

001
 (ENTRY POINT A)
 IF ANY OTHER MAP HAS INSTRUCTED
 YOU TO MOVE OR REMOVE CARD(S),
 RETURN THE SYSTEM TO THE ORIGINAL
 CONFIGURATION.

SYSTEM IS:

 THE PROCESSING UNIT YOU ARE USING
 TO RUN DIAGNOSTIC(S) AND ITS
 ASSOCIATED ATTACHMENT(S) AND
 DEVICE(S).

IS THIS YOUR FIRST ENTRY INTO
 THIS MAP?

Y N

| 002
 | GO TO MAP 0071, ENTRY POINT A.

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2
 A

J
4

ATTACHMENT/DEVICE MAP

MAP 0070-5

PAPER ONLY MAP

PAGE 5 OF 26

007

- SEE IF THE SYSTEM FAILS IN
STEPS THREE (3) - SIX (6)?

DOES THE SYSTEM FAIL IN STEPS
THREE (3) THROUGH SIX (6)?

Y N

008

THE 'FAILURE INDICATION' IS IN
SOME OTHER TEST.

IT MAY BE IN 'SYSTEM TEST', OR
OTHER TEST.

USE THE 'FAILURE INDICATION'
FROM THE FAILING TEST FOR THE
'FAILURE INDICATION' IN THIS
MAP.

GO TO PAGE 6, STEP 009,
ENTRY POINT B.

6
K

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MAP 0070-5

M
6

ATTACHMENT/DEVICE MAP

MAP 0070-7

PAPER ONLY MAP

PAGE 7 OF 26

010

- INSTALL A POLL JUMPER FROM PIN M11 TO PIN M12 IN EACH CARD POSITION WHERE A CARD IS UNSEATED.
- SEE MLD VOLUME 1.
- SEE THE CORRECT BOARD LOGIC (AXXXX) FOR THE POLL NETWORK.

GO TO PAGE 8, STEP 011,
ENTRY POINT C.

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MAP 0070-7

R S ATTACHMENT/DEVICE MAP
9 9

PAPER ONLY MAP

PAGE 10 OF 26

015

THE PROCESSING UNIT, DISKETTE UNIT AND ALTERNATE CONSOLE ARE NOT FAILING.

BECAUSE OF CONFIGURATION OF THE SYSTEM AT THIS POINT, THERE MAY BE CONFIGURATION ERRORS ON THE ALTERNATE CONSOLE.

THE CONFIGURATION ERRORS FOR AN UNSEATED CARD ARE:
IN TABLE NOT IN HARDWARE (3841).

THEY ARE TO BE IGNORED, UNLESS THEY ARE PART OF THE ORIGINAL FAILURE INDICATIONS.

GO TO PAGE 20, STEP 066, ENTRY POINT G.

016

- POWER THE SYSTEM OFF.
- EXCHANGE THE ALTERNATE CONSOLE ATTACHMENT CARD WITH A KNOWN GOOD CARD.
- REVIEW THE JUMPERING ON ATTACHMENT CARD.
- POWER THE SYSTEM ON.

LOAD, IF NECESSARY, AND RUN TO THE FAILURE POINT.

DOES THE TEST FAIL WITH THE SAME FAILURE INDICATIONS?

Y N

017

THE ALTERNATE CONSOLE ATTACHMENT CARD FAILED.

- VERIFY THE REPAIR

N T MAP 0070-10
8

018

- SEE IF THE DISKETTE UNIT ATTACHMENT CARD HAS BEEN EXCHANGED BEFORE.

HAS DISKETTE UNIT ATTACHMENT CARD BEEN EXCHANGED BEFORE?

Y N

019

GO TO STEP 021, ENTRY POINT DU.

020

IF AN ATTACHMENT/DEVICE CARD(S) WAS EXCHANGED IN THE MAP, IT IS THE 'SUSPECT ATTACHMENT CARD' IN MAP 0071.

GO TO MAP 0071, ENTRY POINT A.

021

(ENTRY POINT DU)

THE DISKETTE UNIT MAY BE THE FAILING ATTACHMENT OR DEVICE.

- POWER THE SYSTEM OFF.
- SEE IF THE DISKETTE UNIT ATTACHMENT CARD WAS EXCHANGED PREVIOUSLY.

WAS THE DISKETTE UNIT ATTACHMENT CARD EXCHANGED PREVIOUSLY?

Y N

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ECA41061 PECA40867

1 1
3 1
U V

MAP 0070-10

T

|
|
|
022 THE ADDRESS JUMPERING AND ALL OTHER JUMPERS SHOULD BE CORRECT ON THE ATTACHMENT CARD.

- INSPECT THE JUMPERING ON DISKETTE UNIT ATTACHMENT CARD.

IS THE ADDRESS JUMPERING AND ALL OTHER JUMPERS CORRECT?

Y N

| 023

| - CORRECT THE JUMPERING ON DISKETTE UNIT ATTACHMENT CARD.
| - VERIFY THE REPAIR

024

- SEE IF ANOTHER DISKETTE UNIT IS AVAILABLE TO THE PROCESSING UNIT.
- SEE IF ANOTHER DISKETTE ATTACHMENT CARD IS AVAILABLE TO THE PROCESSING UNIT.

YOU MUST HAVE ANOTHER ATTACHMENT CARD AND A DISKETTE UNIT AVAILABLE, NOT THE ATTACHMENT OR DEVICE USED PREVIOUSLY.

- SEE IF DIAGNOSTIC DISKETTE ARE AVAILABLE FOR USE IN THIS DISKETTE UNIT IF NOT THE SAME AS THE ORIGINAL (8 INCH/5 1/4 INCH DISKETTE).

IS THERE ANOTHER ATTACHMENT CARD AND DISKETTE UNIT AVAILABLE AS NOTED ABOVE?

Y N

|
|
|
|
|
|

W X

|
|
|
|
| 025
| - EXCHANGE THE DISKETTE UNIT ATTACHMENT CARD WITH A KNOWN GOOD CARD.
| - POWER THE SYSTEM ON.

LOAD IF NECESSARY, AND RUN TO THE FAILURE POINT.

DOES THE TEST FAIL WITH THE SAME FAILURE INDICATIONS?

Y N

| 026

| THE DISKETTE UNIT ATTACHMENT CARD FAILED.
| - VERIFY THE REPAIR

027

IF AN ATTACHMENT OR DEVICE CARD WAS EXCHANGED IN THE MAP, IT IS THE 'SUSPECT ATTACHMENT CARD' IN MAP 0071.
GO TO MAP 0071, ENTRY POINT A.

028

ENSURE THE IPL JUMPERING ON THE ATTACHMENT CARD IS FOR THIS DISKETTE UNIT TO BE A LOAD DEVICE.
SEE THE DISKETTE UNIT MAINTENANCE INFORMATION MANUAL FOR JUMPERING INSTRUCTION.

IS THE ACTION COMPLETE?

Y N

| 029
| COMPLETE THE ACTION.
| GO TO PAGE 12, STEP 030,
| ENTRY POINT E.

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2

Y

MAP 0070-11

U Z ATTACHMENT/DEVICE MAP
1 1
0 2 PAPER ONLY MAP

MAP 0070-13

| | PAGE 13 OF 26
| |
| |

| 032

- | - POWER THE SYSTEM OFF.
- | - RETURN THE ORIGINAL DISKETTE
| UNIT ATTACHMENT CARD AND
| DEVICE TO ORIGINAL
| CONDITIONS.
- | - RETURN THE AVAILABLE DISKETTE
| UNIT ATTACHMENT CARD AND
| DEVICE TO ORIGINAL
| CONDITIONS.

| POLL ON THE BOARD AND THE IPL
| JUMPER(S) ON THE ATTACHMENT
| CARD(S) MUST BE RETURNED TO THE
| ORIGINAL CONDITIONS.

| IF AN ATTACHMENT OR DEVICE CARD
| WAS EXCHANGED IN THE MAP, IT IS
| THE 'SUSPECT ATTACHMENT CARD'
| IN MAP 0071.
| GO TO MAP 0071, ENTRY POINT A.

| 033

| IF AN ATTACHMENT OR DEVICE CARD
| WAS EXCHANGED IN THE MAP, IT IS
| THE 'SUSPECT ATTACHMENT CARD' IN
| MAP 0071.
| GO TO MAP 0071, ENTRY POINT A.

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MAP 0070-13

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4

ATTACHMENT/DEVICE MAP

MAP 0070-14

PAPER ONLY MAP

PAGE 14 OF 26

034

- SEE THE NOTE --->
- SEE THE FIRST FAILURE RECORDED IN NOTE 2 AND USE IT TO DETERMINE THE PROBLEM.
- POWER THE SYSTEM OFF.
- UNSEAT ALL ATTACHMENT CARDS THAT ARE SEATED INCLUDING THE DISKETTE UNIT ATTACHMENT CARD.

UNSEAT, MEANING ELECTRICALLY ISOLATE. IT IS ONLY NECESSARY TO PULL OUT CARD(S) ONE INCH.

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+-----+
|          ***** CAUTION *****          |
| DO NOT REMOVE CARDS FROM GUIDES |
+-----+

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IF AN EXPANSION BOARD IS CABLED TO PROCESSING UNIT BOARD, THE ATTACHMENT CARDS INSTALLED IN IT MUST BE UNSEATED, UNLESS THE CUSTOMER WILL NOT PERMIT THIS.

- DO NOT UNSEAT THESE CARDS, IF INSTALLED:
 - ADDRESS TRANSLATOR/EXPANDER CHANNEL REPOWER CARD(S).
 - FLOATING POINT CARD.
 - PROCESSING UNIT CARD(S).
 - TWO CHANNEL SWITCH CARD(S).
 - STORAGE CARD(S).
- POWER THE SYSTEM ON.

DOES THE TEST FAIL WITH THE SAME FAILURE INDICATIONS?

Y N

035
THE PROCESSING UNIT AND STORAGE ARE O.K.

- SEAT THE DISKETTE UNIT ATTACHMENT CARD.
- GO TO PAGE 6, STEP 009, ENTRY POINT B.

036

GO TO MAP 0071, ENTRY POINT PR.

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MAP 0070-14

F
3

PAPER ONLY MAP

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037

- SEE THE NOTE ---->
- POWER THE SYSTEM OFF.
- UNSEAT ALL ATTACHMENT CARDS THAT ARE SEATED EXCEPT THE DISKETTE UNIT AND ALTERNATE CONSOLE ATTACHMENT CARDS.

IF AN EXPANSION BOARD IS CABLED TO PROCESSING UNIT BOARD, THE ATTACHMENT CARDS INSTALLED IN IT MUST BE UNSEATED, UNLESS THE CUSTOMER WILL NOT PERMIT THIS.

- DO NOT UNSEAT THESE CARDS, IF INSTALLED:
 ADDRESS TRANSLATOR/EXPANDER CHANNEL REPOWER CARD(S).
 FLOATING POINT CARD.
 PROCESSING UNIT CARD(S).
 TWO CHANNEL SWITCH CARD(S).
 STORAGE CARD(S).

- POWER THE SYSTEM ON.

LOAD, IF NECESSARY, AND SEE IF THERE IS A FAILURE. A CONFIGURATION ERROR CAUSED BY UNSEATED CARDS IS NOT A FAILURE.

DOES THE TEST FAIL WITH THE SAME FAILURE INDICATIONS?

Y N

038

- | THE PROCESSING UNIT AND STORAGE ARE O.K.
- | THE ALTERNATE CONSOLE AND DISKETTE UNIT ARE O.K.
- | GO TO PAGE 20, STEP 066, ENTRY POINT G.

1
6
A
B

UNSEAT, MEANING ELECTRICALLY ISOLATE. IT IS ONLY NECESSARY TO PULL OUT CARD(S) ONE INCH.

INSTALL A POLL JUMPER FROM PIN M11 TO PIN M12 IN THE CARD POSITIONS NEEDED TO ENSURE THE DISKETTE AND ALTERNATE CONSOLE ARE OPERATIONAL. REMEMBER THAT TWO CONSECUTIVE CARD POSITIONS CANNOT BE LEFT EMPTY.

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D A ATTACHMENT/DEVICE MAP

2 B

1

5

PAPER ONLY MAP

PAGE 16 OF 26

039

- POWER THE SYSTEM OFF.
GO TO MAP 0071, ENTRY POINT PR.

040

- DO NOT RUN MANUAL DIAGNOSTICS ON AN ATTACHMENT OR DEVICE THAT IS NOT SUSPECT. THE MANUAL MAPS WILL FAIL AND CALL OUT A FIELD REPLACEMENT UNIT FOR EACH MAP RUN. REMEMBER - YOU HAVE A CHANNEL PROBLEM.
- SEE THE SUSPECT ATTACHMENT OR DEVICE THAT SENT YOU HERE.
- SEE IF ALL THE MANUAL DIAGNOSTICS HAVE BEEN RUN ON THIS SUSPECT ATTACHMENT OR DEVICE.

HAVE ALL THE MANUAL DIAGNOSTICS BEEN RUN ON THE SUSPECT DEVICE?

Y N

041

- RUN THE MANUAL DIAGNOSTICS ON THE SUSPECT ATTACHMENT OR DEVICE.
- SEE IF A FIELD REPLACEMENT UNIT IS FOUND.
- SEE IF THIS FIELD REPLACEMENT UNIT WAS EXCHANGED PREVIOUSLY.

WAS IT EXCHANGED BEFORE ENTERING THIS MAP?

Y N

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C D E

B A A A

2 C D E

MAP 0070-16

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042

- EXCHANGE THE FIELD REPLACEMENT UNIT.

IF NO REPAIR:

GO TO PAGE 3,

STEP 005,

ENTRY POINT SF.

043

GO TO PAGE 3, STEP 005, ENTRY POINT SF.

044

GO TO PAGE 3, STEP 005, ENTRY POINT SF.

045

THERE IS 'MORE THAN ONE FAILURE' ON THE SYSTEM.

- SEE IF A CHANNEL REPOWER CARD IS INSTALLED ON THE SYSTEM.

IS A CHANNEL REPOWER CARD INSTALLED ON THE SYSTEM?

Y N

046

(ENTRY POINT TC)

- SEE IF A TWO CHANNEL SWITCH IS INSTALLED ON THE SYSTEM.

IS A TWO CHANNEL SWITCH CARD INSTALLED ON THE SYSTEM?

Y N

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1 1 1

9 9 7

A A A

F G H

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MAP 0070-16

A
H
1
6

ATTACHMENT/DEVICE MAP

MAP 0070-17

PAPER ONLY MAP

PAGE 17 OF 26

047
(ENTRY POINT ME)

- SEE IF THE DEVICES HAVING
ERRORS ARE INSTALLED IN THE
SAME CARD FILE.

ARE ALL THE ERRORS IN THE SAME
CARD FILE?

Y N

048

- SEE IF ALL THE DEVICES HAVING
ERRORS ARE PART OF A
SUBSYSTEM.

A 'SUBSYSTEM' IS:

4982 SENSOR I/O (SIO)
4987 PROGRAMMABLE COMMUNICATION

ARE ALL THE ERRORS IN THE SAME
SUBSYSTEM?

Y N

049

- SEE IF ALL THE DEVICE(S)
HAVING ERRORS HAVE THE SAME
ATTACHMENT CARD.

DO ALL THE ERRORS HAVE THE
SAME ATTACHMENT CARD?

Y N

050

GO TO PAGE 2,
STEP 004,
ENTRY POINT CT.

1 1 1
9 8 8
A A A
J K L

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MAP 0070-17

A A ATTACHMENT/DEVICE MAP
K L
1 1 PAPER ONLY MAP
7 7
PAGE 18 OF 26

MAP 0070-18

| |
| |
| 051
| - SEE IF THIS ATTACHMENT CARD
| WAS EXCHANGED BEFORE ENTERING
| THIS MAP.
|
| HAS THIS ATTACHMENT CARD BEEN
| EXCHANGED BEFORE ENTERING THIS
| MAP?
| Y N
| |
| 052
| - EXCHANGE THE ATTACHMENT
| CARD.
| IF NO REPAIR,
| GO TO PAGE 2, STEP 004,
| ENTRY POINT CT.
| |
| 053
| GO TO PAGE 3, STEP 005,
| ENTRY POINT SF.

054
- GO TO THE SUBSYSTEM PROLOG.
- RUN ALL MANUAL MAP(S) NOT RUN
ALREADY FOR THE PROBLEM BEFORE
STARTING THIS MAP IF THE
SUBSYSTEM MAP SHOWS A FAILURE.

A 'SUBSYSTEM' IS:

4982 SENSOR I/O (SIO)
4987 PROGRAMMABLE COMMUNICATION

DO THE MAPS CALL OUT THE SAME
FIELD REPLACEMENT UNIT?
Y N
| |
| 055
| - EXCHANGE THE FIELD
| REPLACEMENT UNIT.
| IF NO REPAIR,
| GO TO PAGE 3, STEP 005,
| ENTRY POINT SF.

1
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A
M

30JAN87 PN1635008
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MAP 0070-18

A A A ATTACHMENT/DEVICE MAP
G J M
1 1 1 PAPER ONLY MAP
6 7 8
PAGE 19 OF 26

056
- DO NOT EXCHANGE THE FIELD
REPLACEMENT UNIT. IT HAS
BEEN EXCHANGED ONCE.
GO TO PAGE 3, STEP 005,
ENTRY POINT SF.

057
- DO A VOLTAGE VOLTAGE CHECK ON
THE BOARD.
- SEE THE CORRECT BOARD
LOGIC(S).

ARE ALL THE VOLTAGES CORRECT?
Y N

058
TO CORRECT THE POWER PROBLEM:
GO TO MAP 1470,
ENTRY POINT A.

059
GO TO PAGE 2, STEP 004,
ENTRY POINT CT.

060
- POWER THE SYSTEM OFF.

IF MORE THAN ONE (1) TWO CHANNEL
SWITCH CARD IS INSTALLED, USE
THEM FOR FIELD REPLACEMENT UNIT
ISOLATION.

- EXCHANGE THE TWO CHANNEL SWITCH
CARD WITH A KNOWN GOOD CARD.
- POWER THE SYSTEM ON.

DOES THE TEST FAIL WITH THE SAME
INDICATIONS?

Y N

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A A
N P

A A A MAP 0070-19
F N P
1
6 | |

061
THE TWO CHANNEL SWITCH CARD
IS BAD.
- VERIFY THE REPAIR

062
GO TO PAGE 17, STEP 047,
ENTRY POINT ME.

063
- POWER THE SYSTEM OFF.

IF MORE THAN ONE (1) CHANNEL
REPOWER CARD IS INSTALLED, USE
THEM FOR FIELD REPLACEMENT UNIT
ISOLATION.

- EXCHANGE THE CHANNEL REPOWER
CARD WITH A KNOWN GOOD CARD.
- POWER THE SYSTEM ON.

DOES THE TEST FAIL WITH THE SAME
INDICATIONS?

Y N

064
THE CHANNEL REPOWER CARD IS
BAD.
- VERIFY THE REPAIR

065
GO TO PAGE 16, STEP 046,
ENTRY POINT TC.

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MAP 0070-19

066

(ENTRY POINT G)

BECAUSE OF THE VARIABLES IN A SYSTEM CONFIGURATION, IT IS NOT POSSIBLE FOR THIS MAP TO GIVE EXACT INSTRUCTIONS ON HOW TO JUMPER THE POLL LINES. REMEMBER THAT TWO CONSECUTIVE CARD LOCATIONS CANNOT BE LEFT EMPTY.

- INSTALL A POLL JUMPER FROM PIN M11 TO PIN M12 IN THE CARD POSITION WHEN A CARD IS UNSEATED.
- REMOVE A POLL JUMPER FROM PIN M11 TO PIN M12 IN THE CARD POSITION WHEN A CARD IS SEATED.

IF THE FAILURE WAS IN AN ATTACHMENT/DEVICE MAP, AND A FRU WAS EXCHANGED AND THE PROBLEM NOT REPAIRED, THE ATTACHMENT OR DEVICE IS A 'SUSPECT ATTACHMENT'.

- ANSWER THE QUESTION YES.

IS ANY ATTACHMENT SUSPECT?

Y N

|

| 067

| GO TO PAGE 21, STEP 072,

| ENTRY POINT H.

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IF POLL IS NOT JUMPERED CORRECTLY, THE FAILURE IS:

- 495X - POWER ON. DATA LEDS EQUAL 0025 OR 0026 WITH THE CHECK LED ON.
- 4955 - PRESS LOAD KEY. DATA LEDS EQUAL 00E0, WITH NO IPL.

A ATTACHMENT/DEVICE MAP
Q
2 PAPER ONLY MAP
0 PAGE 21 OF 26

- |
|
068
- POWER THE SYSTEM OFF.
- SEAT THE SUSPECT ATTACHMENT CARD.
- REMOVE THE POLL JUMPER FROM PIN M11 TO PIN M12 IN THE CARD POSITION WHERE THE CARD WAS JUST SEATED.
- SEE MLD VOLUME 1.
- SEE THE CORRECT BOARD LOGIC (AXXXX) FOR THE POLL NETWORK.
- POWER THE SYSTEM ON.

LOAD, IF NECESSARY, AND RUN TO THE FAILURE POINT.

FROM THIS POINT ON IN THIS MAP, IF THE FAILURE INDICATION IS IN STEPS THREE (3) THROUGH SIX (6) OF NOTE TWO (2), THE CONFIGURATION PROGRAM MAY INDICATE ERRORS.

DOES THE TEST FAIL WITH THE SAME FAILURE INDICATIONS?

Y N

- | 069
| - SEE IF THERE IS ANY SUSPECT ATTACHMENT CARD THAT IS UNSEATED NOW.

| IS THERE ANY SUSPECT ATTACHMENT CARD THAT IS UNSEATED NOW?

| Y N

2 2 |
2 2 |
A A A
R S T

A MAP 0070-21
T

- |
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|
|
070
- SEE IF THERE IS ANY ATTACHMENT CARD THAT IS UNSEATED NOW.

IS THERE ANY ATTACHMENT CARD THAT IS UNSEATED NOW?

Y N

- |
| 071
| THE PROBLEM IS INTERMITTENT OR THERE MAY HAVE BEEN A LOOSE CARD OR CABLE.
| GO TO MAP 0072, ENTRY POINT A.

|
072
(ENTRY POINT H)

- POWER THE SYSTEM OFF.
- SEAT AN ATTACHMENT CARD THAT HAS NOT BEEN TESTED.
- REMOVE THE POLL JUMPER FROM PIN M11 TO PIN M12 IN THE CARD POSITION WHERE THE CARD WAS JUST SEATED.
- SEE MLD VOLUME 1.
- SEE THE CORRECT BOARD LOGIC (AXXXX) FOR THE POLL NETWORK.
- POWER THE SYSTEM ON.

LOAD, IF NECESSARY, AND RUN TO THE FAILURE POINT.

DOES THE TEST FAIL WITH THE SAME FAILURE INDICATIONS?

Y N

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MAP 0070-21

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ATTACHMENT/DEVICE MAP

PAPER ONLY MAP

PAGE 24 OF 26

084
(ENTRY POINT CR)

- SEE IF A VOLTAGE TEST WAS DONE ON THE BOARD AND PINS TO THIS ATTACHMENT.

WAS A VOLTAGE TEST DONE ON THE BOARD AND PINS TO THIS ATTACHMENT?

Y N

085

- SEE THE SUITABLE ALD FOR THE SUSPECT ATTACHMENT.
- TEST FOR ALL VOLTAGES ON BOARD AND CARD, IF INDICATED.

ARE THE VOLTAGES ALL CORRECT?

Y N

086

- TRACE THE BAD VOLTAGE PATH TO THE SOURCE ON THE BOARD.
- SEE THE CORRECT BOARD ALD FOR THE VOLTAGE NETWORK ON THE BOARD.
- TEST THE VOLTAGES WHERE THEY ENTER THE BOARD.

IS THE VOLTAGE PROBLEM ON THE BOARD?

Y N

087

GO TO MAP 1470,
ENTRY POINT A.

B B B
D E F

B B B
D E F

MAP 0070-24

088

- SEE THE CORRECT BOARD ALD.
- CORRECT THE FAILING CONDITION ON THE BOARD.

IF YOU CANNOT CORRECT THE PROBLEM ON THE BOARD,
GO TO MAP 1470,
ENTRY POINT A.

089

GO TO STEP 090,
ENTRY POINT PB.

090

(ENTRY POINT PB)

THE PROBLEM CAN BE IN DEVICE OR PROCESSING UNIT CARD(S).

- ENSURE ADDRESS JUMPERS ON ATTACHMENT CARD ARE CORRECT.
- SEE THE CONFIGURATION TABLE FOR THE ADDRESS OF THIS ATTACHMENT.
- ENSURE THERE ARE NO SAME ADDRESS(ES) ON THE SYSTEM.
- ENSURE ANY OTHER JUMPERING, IF NECESSARY, IS CORRECT.
- GO TO THE MAP PROLOG FOR INFORMATION OF THE ATTACHMENT OR DEVICE, AND THE PROBLEM.

CAN THE ATTACHMENT OR DEVICE MAP BE USED?

Y N

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2 2

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5 5

B B

MAP 0070-24

G H

A B ATTACHMENT/DEVICE MAP
Z J
2 2 PAPER ONLY MAP
3 5
PAGE 26 OF 26

MAP 0070-26

| |
| |
| 099
| THE ATTACHMENT CARD IS FAILING.

- | - EXCHANGE WITH THE KNOWN GOOD
| CARD USED BEFORE.
- | - INSTALL CORRECT JUMPERING.
- | - VERIFY THE REPAIR

|
100
GO TO PAGE 24, STEP 084,
ENTRY POINT CR.

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MAP 0070-26

PAPER ONLY MAP

PAGE 1 OF 16

ENTRY POINTS

FROM ENTER THIS MAP			
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
0070	A	1	001
0070	PR	4	011

001
(ENTRY POINT A)

- SEE NOTE ONE (1) --->
- POWER OFF THE SYSTEM.
- WAIT FIFTEEN (15) SECONDS.

UNSEAT OR SEAT ONLY WHEN INSTRUCTED TO IN THIS MAP. THE WORD 'UNSEAT' IS THE METHOD TO ELECTRICALLY ISOLATE. PULL CARD(S) OUT APPROXIMATELY ONE INCH. DO NOT REMOVE CARD(S) FROM GUIDES. THE WORD 'RESEAT' IS THE METHOD TO ELECTRICALLY CONNECT. PRESS THE CARD IN UNTIL IT IS SEATED IN BOARD.

- CHECK 4956 PROCESSING UNIT CARD, CABLES AND STORAGE CARD(S) TO ENSURE CORRECT SEATING.

IS THE 'FAILURE INDICATION' IN 'SYSTEM TEST'?

Y N
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A B

EXIT POINTS

EXIT THIS MAP TO			
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
4	014	0072	A
15	074	0072	A
15	076	0072	A
13	065	1470	A

```

+-----+
|               NOTE ONE (1)               |
+-----+
| IF SYSTEM TEST, OR A                      |
| CUSTOMER PROGRAM IS THE ONLY             |
| WAY THAT THE SYSTEM WILL FAIL,          |
| USE IT AS FAILURE INDICATION            |
| IN THIS MAP.                             |
+-----+
    
```

SYSTEM = :

THE PROCESSING UNIT YOU ARE USING TO DIAGNOSE THE PROBLEM, AND ITS ASSOCIATED ATTACHMENT(S) AND DEVICE(S).

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4956 CHAN ISOLATION

MAP 0071-2

PAPER ONLY MAP

PAGE 2 OF 16

002

IF A DIAGNOSTIC MAP FAILS, USE IT AS THE 'ERROR INDICATION' IN THIS MAP, AS FOLLOWS:

TABLE ONE (1) IS THE SEQUENCE IN MAP 0020 FOR A CORRECTLY OPERATING SYSTEM. NOTE THE STEP IN WHICH YOUR SYSTEM FAILS. RECORD THE DIFFERENCE. THIS IS THE 'FAILURE INDICATION' FOR THIS MAP.

- GO TO THE NEXT QUESTION AND USING THIS INFORMATION, ANSWER IT.

TABLE ONE (1)	
1.	POWER ON. - FFFF - IN DATA LAMPS.
2.	PRESS THE RESET KEY. - 0000 - IN DATA LAMPS.
3.	PRESS THE IPL KEY.
4.	- XXXX - IN THE DATA LAMPS. WAIT FOR THE IPL TO COMPLETE
5.	THERE MAY BE A CONFIGURATION MESSAGE.
6.	AFTER THIS MESSAGE, A RDY ENTER - (3800 IN DATA LAMPS) MESSAGE WILL BE INDICATED. THE DCP IS LOADED CORRECTLY.
7.	IF AUTO RUN, ALL DEVICES ARE TESTED.

IS THE 'FAILURE INDICATION' IN STEPS ONE (1) TO FOUR (4)?

Y N

003

GO TO PAGE 4, STEP 011, ENTRY POINT PR.

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MAP 0071-2

C
2

4956 CHAN ISOLATION

PAPER ONLY MAP

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004

THE 'FAILURE INDICATION' IS IN STEPS ONE (1) TO FOUR (4). THE PROBLEM MAY BE RELATIVE TO A DEVICE. MAP 0070 MAY HAVE INDICATED THE PROBLEM WAS AN ATTACHMENT CARD. IF YOU HAVE EXCHANGED A SUSPECT ATTACHMENT CARD IN MAP 0070, OR SOME OTHER MAP, ANSWER THE QUESTION 'YES'.

IS THERE A 'SUSPECT' ATTACHMENT CARD FROM SOME OTHER MAP?

Y N

005

GO TO PAGE 4, STEP 011,
ENTRY POINT PR.

006

- ENSURE THE CUSTOMER INTERFACE IS DISCONNECTED.
- SEE IF THE SUSPECT ATTACHMENT CARD IS CONNECTED WITH CABLE(S) TO A DEVICE.

IF THE SUSPECT ATTACHMENT CARD IS THE IPL DISKETTE DEVICE ATTACHMENT CARD:

- ANSWER THE QUESTION 'NO'.

DOES THE SUSPECT ATTACHMENT CARD HAVE CABLE(S) CONNECTED TO A DEVICE?

Y N

007

GO TO PAGE 4, STEP 011,
ENTRY POINT PR.

D

MAP 0071-3

008

- POWER OFF THE SYSTEM.
- REMOVE THE CABLE(S) FROM THE ATTACHMENT CARD TO THE DEVICE, AT THE ATTACHMENT CARD END.

THE DEVICE AND ITS CABLE(S) ARE ISOLATED FROM THE ATTACHMENT CARD.

- POWER ON THE SYSTEM.
- RUN THE FAILING DIAGNOSTIC, IF NEEDED TO SEE THE FAILURE.

DOES THE TEST FAIL WITH THE SAME INDICATIONS?

Y N

009

THE DEVICE MAY BE CAUSING THE FAILURE.

- RECONNECT THE CABLE(S) TO THE ATTACHMENT CARD.
- GO TO THE MAP PROLOG OF THIS DEVICE.

IF NO REPAIR, RETURN TO THIS MAP.

GO TO PAGE 4, STEP 011,
ENTRY POINT PR.

010

- POWER OFF THE SYSTEM.
- RECONNECT THE CABLE(S) TO THE ATTACHMENT CARD.

GO TO PAGE 4, STEP 011,
ENTRY POINT PR.

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MAP 0071-3

D

1

PAPER ONLY MAP

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011
(ENTRY POINT PR)

- POWER OFF THE SYSTEM.
- ENSURE THE PROCESSING UNIT CARD, CABLE(S) AND STORAGE CARD(S) ARE SEATED.
- POWER ON THE SYSTEM.
- RUN THE FAILING DIAGNOSTIC, IF NEEDED TO SEE THE FAILURE.
- SEE TABLE ONE (1).
- PAGE 2 THIS MAP.

DOES THE TEST FAIL WITH THE SAME INDICATIONS?

Y N

012

THERE CAN BE DIRTY PINS OR A BAD CONNECTION.

- HIT ALL CARD(S) AND THE BOARD LIGHTLY.
- RUN THE FAILING DIAGNOSTIC, IF NEEDED TO SEE THE FAILURE.

DOES THE TEST FAIL WITH THE SAME INDICATIONS?

Y N

013

IF THE SYSTEM IS NOT FAILING, INSTALL ALL THE ORIGINAL ATTACHMENT CARD(S), HAVE THE CUSTOMER RECONNECT HIS INTERFACE AND VERIFY CORRECT OPERATION.

014

GO TO MAP 0072, ENTRY POINT A.

015

SEE IF THERE ARE ANY EXPANSION UNITS INSTALLED.

IS THE PROCESSING UNIT BOARD THE ONLY BOARD ON THE SYSTEM?

Y N

016

- SEE TABLE ONE (1).
- PAGE 2 THIS MAP.

IS THE FAILURE IN STEP 1 OR 2?

Y N

017

LOCATE THE DIAGNOSTIC IPL DEVICE.

CAN THE IPL DEVICE BE MOVED TO THE PROCESSOR BOARD?

Y N

018

SEE IF THERE IS ANOTHER DISKETTE OR MPLD AVAILABLE.

IS A DISKETTE AVAILABLE?

Y N

019

- RESET ALL CHANNEL REPOWER CARDS AND CABLES.
- REPLACE CHANNEL REPOWER CARD(S) WITH KNOWN GOOD CARDS.

GO TO PAGE 12, STEP 057, ENTRY POINT RP.

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0 5 5 5
F G H J

H J 4956 CHAN ISOLATION

4 4

PAPER ONLY MAP

PAGE 5 OF 16

020
GO TO STEP 022,
ENTRY POINT US.

021
GO TO STEP 022,
ENTRY POINT US.

G

4

MAP 0071-5

022
(ENTRY POINT US)

- SEE THE NOTE --->
- POWER OFF THE SYSTEM.
- UNSEAT ALL CHANNEL REPOWER CARD(S)

IF NECESSARY,

- INSTALL A POLL JUMPER FROM PIN M11 TO PIN M12 IN THE CARD POSITION WHERE A CARD IS UNSEATED.
- INSTALL A POLL JUMPER FROM PIN M11 TO PIN M12 IN ALL THE CARD POSITIONS THAT ARE EMPTY.
- SEE THE CORRECT BOARD LOGIC, AXXXX, FOR THE POLL NETWORK.

INSTALL AN IPL DISKETTE AND THE ALTERNATE CONSOLE ATTACHMENT CARDS IN THE PROCESSING UNIT BOARD IF NEEDED TO SHOW THE FAILURE.

THESE CARDS CANNOT BE INSTALLED IN CARD POSITION 'A'. IF THE PROCESSING UNIT BOARD IS FILLED WITH CARDS, REMOVE CARDS TO MAKE ROOM FOR THEM.

- POWER ON THE SYSTEM.
- RUN THE FAILING DIAGNOSTIC, IF NEEDED TO SEE THE FAILURE.
- SEE TABLE ONE (1).
- PAGE 2 THIS MAP.

DOES THE TEST FAIL WITH THE SAME INDICATIONS?

Y N

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30JAN87 PN85X2512

ECA41061 PECA40867

1
0 6
K L

MAP 0071-5

L
5

4956 CHAN ISOLATION

PAPER ONLY MAP

PAGE 6 OF 16

023

THERE IS A FAILING CABLE OR BOARD, OUTBOARD OF THE PROCESSING UNIT BOARD OR THE CHANNEL REPOWER CARD. THE PROBLEM MUST NOW BE ISOLATED TO THE FAILING FIELD REPLACEMENT UNIT.

IS ONLY ONE (1) EXPANSION BOARD INSTALLED ON THE SYSTEM?

Y N

024

THERE IS MORE THAN ONE EXPANSION BOARD INSTALLED.

- POWER OFF THE SYSTEM.

IS THE CHANNEL REPOWER CARD UNSEATED IN THE PROCESSING UNIT BOARD?

Y N

025

GO TO PAGE 4, STEP 011, ENTRY POINT PR.

7
M N

N

MAP 0071-6

026

(ENTRY POINT CR)

- POWER OFF THE SYSTEM.
- RESEAT THE CHANNEL REPOWER CARD IN THIS BOARD.

THERE ARE FOUR TOP CARD CABLE(S) ON THIS CHANNEL REPOWER CARD THAT GO TO THE NEXT BOARD.

- ENSURE THAT THESE CABLES ARE SEATED ON BOTH ENDS.
- INSTALL AN IPL DISKETTE AND THE ALTERNATE CONSOLE ATTACHMENT CARDS IN THIS BOARD IF NEEDED TO SHOW THE FAILURE.
- POWER ON THE SYSTEM.
- RUN THE FAILING DIAGNOSTIC, IF NEEDED TO SEE THE FAILURE.
- SEE TABLE ONE (1).
- PAGE 2 THIS MAP.

DOES THE TEST FAIL WITH THE SAME INDICATIONS?

Y N

027

THE BOARD JUST RECONNECTED IS GOOD.

DOES THIS BOARD HAVE A CHANNEL REPOWER CARD INSTALLED?

Y N

028

GO TO PAGE 15, STEP 073, ENTRY POINT DV.

029

GO TO STEP 026, ENTRY POINT CR.

7
P

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MAP 0071-6

M P
6 6

4956 CHAN ISOLATION

MAP 0071-7

PAPER ONLY MAP

PAGE 7 OF 16

030

GO TO STEP 031,
ENTRY POINT RC.

031

(ENTRY POINT RC)

- POWER OFF THE SYSTEM.
- EXCHANGE THE CHANNEL REPOWER CARD WITH A GOOD CARD.
- ENSURE TOP CARD CONNECTOR CABLES ARE SEATED AT BOTH ENDS
- INSTALL AN IPL DISKETTE AND THE ALTERNATE CONSOLE ATTACHMENT CARDS IN THIS BOARD IF NEEDED TO SHOW THE FAILURE.
- RUN THE FAILING DIAGNOSTIC, IF NEEDED TO SEE THE FAILURE.
- SEE TABLE ONE (1).
 - PAGE 2 THIS MAP.
- POWER ON THE SYSTEM.

DOES THE TEST FAIL WITH THE SAME INDICATIONS?

Y N

032

THE CHANNEL REPOWER CARD JUST EXCHANGED IS FAILING.
A KNOWN GOOD CHANNEL REPOWER CARD IS INSTALLED IN SYSTEM.
- VERIFY THE REPAIR.

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MAP 0071-7

8
Q

Q
7

4956 CHAN ISOLATION

MAP 0071-8

PAPER ONLY MAP

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033
(ENTRY POINT CC)

ISOLATE THE CABLES ENTRY POINT.

- POWER OFF THE SYSTEM.

CHECK THE CHANNEL REPOWER TOP
CARD CONNECTOR CABLES FOR AN
OPEN, A SHORT OR A GROUND.

DO THE CABLES CHECK OUT O.K.?

Y N

034
REPAIR OR EXCHANGE THE FAILING
CABLE.
- VERIFY THE REPAIR.

035
SEE IF THE CABLES ARE CONNECTED
TO A TWO CHANNEL SWITCH CARD

ARE THE CABLES CONNECTED TO A TWO
CHANNEL SWITCH CARD?

Y N

036
THE EXPANSION BOARD OR POWER
ARE SUSPECT.
GO TO PAGE 13, STEP 061,
ENTRY POINT CB.

037
(ENTRY POINT TS)

- SEE IF THE TWO CHANNEL SWITCH
CARD WAS EXCHANGED PREVIOUSLY.

WAS THE TWO CHANNEL SWITCH CARD
EXCHANGED?

Y N

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R S

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MAP 0071-8

S
8

4956 CHAN ISOLATION

MAP 0071-9

PAPER ONLY MAP

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038

- SEE THE NOTE --->
- POWER OFF THE SYSTEM.
- EXCHANGE THE TWO CHANNEL SWITCH CARD WITH A KNOWN GOOD CARD.
- ENSURE THE CABLE(S) TO THIS CARD ARE RECONNECTED BY YOU.
- POWER ON THE SYSTEM.
- RUN THE FAILING DIAGNOSTIC, IF NEEDED TO SEE THE FAILURE.

IF TWO (2) TWO CHANNEL SWITCHES (TCS) ARE INSTALLED, USE SWITCHING OF THE TCS OR IPL FROM EACH PROCESSING UNIT, TO AID IN ISOLATING TO THE FRU. IF YOU CANNOT ISOLATE TO THE FRU, EXCHANGE EACH TCS, ONE AT A TIME.

DOES THE TEST FAIL WITH THE SAME INDICATIONS?

Y N

039

- THE TWO CHANNEL SWITCH CARD JUST EXCHANGED IS FAILING.
- A KNOWN GOOD TWO CHANNEL SWITCH CARD IS INSTALLED IN THE SYSTEM.
- VERIFY THE REPAIR.

040

- POWER OFF THE SYSTEM.
- CHECK THE EIGHT (8) CABLES FROM THE TWO CHANNEL SWITCH CARD TO THE BOARDS FOR AN OPEN, A SHORT OR A GROUND.
- CHECK THE CABLE FROM THE TWO CHANNEL SWITCH CARD TO THE TWO CHANNEL SWITCH CONSOLE.

ARE THE CABLES CORRECT?

Y N

041

- REPAIR OR EXCHANGE THE FAILING CABLE.
- VERIFY THE REPAIR.

1
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T

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MAP 0071-9

F K R T 4956 CHAN ISOLATION
4 5 8 9

MAP 0071-10

PAPER ONLY MAP

PAGE 10 OF 16

042

GO TO PAGE 13,
STEP 061,
ENTRY POINT CB.

043

GO TO PAGE 13, STEP 061,
ENTRY POINT CB.

044

GO TO PAGE 12, STEP 057,
ENTRY POINT RP.

045

(ENTRY POINT TC)

- SEE IF THERE ARE CABLES
CONNECTED FROM THE PROCESSING
UNIT YOU ARE USING TO A TWO
CHANNEL SWITCH CARD.

IS THERE A CABLE FROM THE
PROCESSING UNIT TO A TWO CHANNEL
SWITCH CARD?

Y N

046

(ENTRY POINT ST)

- SEE IF THERE ARE ADDITIONAL
STORAGE CARD(S) INSTALLED.

ARE THERE ADDITIONAL STORAGE
CARD INSTALLED?

Y N

047

GO TO PAGE 12, STEP 057,
ENTRY POINT RP.

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MAP 0071-10

1 1
6 1
U V

V
1
0

4956 CHAN ISOLATION

MAP 0071-11

PAPER ONLY MAP

PAGE 11 OF 16

048

(ENTRY POINT ME)

- POWER OFF THE SYSTEM.
- SEE THE NOTE ---->
- UNSEAT ALL STORAGE CARD(S)
- JUMPER PIN M11 TO M12 OF THE UNSEATED CARD LOCATIONS IF MORE THAN TWO STORAGE CARDS ARE UNSEATED
- POWER ON THE SYSTEM.

IN A SYSTEM WITH MIXED SIZE STORAGE CARDS (2048 AND 4096) THE CARD NEXT TO THE PROCESSOR MUST BE THE LARGEST OF THE STORAGE CARDS FOLLOWED BY THE NEXT LARGEST.

DOES THE TEST FAIL WITH THE SAME INDICATIONS?

Y N

049

(ENTRY POINT MD)

THE UNSEATED STORAGE CARD(S) ARE SUSPECT.

- POWER OFF THE SYSTEM.
- SEAT THE NEXT SEQUENTIAL ADDRESSED STORAGE CARD.
- REMOVE THE JUMPER FROM PINS M11 TO M12 OF THIS CARD LOCATION IF INSTALLED.
- SEE THE TABLE----->

DOES THE TEST FAIL WITH THE SAME INDICATIONS?

Y N

050

- SEE IF ALL STORAGE CARDS ARE SEATED.

ARE ALL STORAGE CARDS SEATED?

Y N

1 1 1 1
6 2 2 2
W X Y Z

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MAP 0071-11

X Y Z 4956 CHAN ISOLATION
1 1 1
1 1 1 PAPER ONLY MAP

PAGE 12 OF 16

051

GO TO PAGE 11, STEP 049,
ENTRY POINT MD.

052

THE PROBLEM IS INTERMITTENT.
RUN DIAGNOSTIC 2000.
- VERIFY THE REPAIR.

053

(ENTRY POINT SM)

- SEE IF YOU HAVE REPLACED THE
STORAGE CARD PREVIOUSLY.

HAVE YOU REPLACED THE STORAGE
CARD PREVIOUSLY?

Y N

054

- POWER OFF THE SYSTEM.
- REMOVE THE STORAGE CARD.
- EXCHANGE THE STORAGE CARD
WITH A KNOWN GOOD CARD.
- POWER ON THE SYSTEM.

DOES THE TEST FAIL WITH THE
SAME INDICATIONS?

Y N

055

THE STORAGE CARD IS BAD.
- VERIFY THE REPAIR.

056

GO TO STEP 057,
ENTRY POINT RP.

A
A

MAP 0071-12

057

(ENTRY POINT RP)

- SEE IF THE PROCESSING UNIT CARD
WAS EXCHANGED PREVIOUSLY.

WAS THE PROCESSING UNIT CARD
EXCHANGED PREVIOUSLY?

Y N

058

- SEE LOGICS AXXXX OR A9100.
- POWER OFF THE SYSTEM.
- EXCHANGE THE PROCESSING UNIT
CARD
- ENSURE JUMPERS ARE CORRECT.
- POWER ON THE SYSTEM.
- RUN THE FAILING DIAGNOSTIC,
IF NEEDED TO SEE THE FAILURE.

DOES THE TEST FAIL WITH THE
SAME INDICATIONS?

Y N

059

THE PROCESSING UNIT CARD IS
BAD.

- VERIFY THE REPAIR.

060

GO TO PAGE 13, STEP 061,
ENTRY POINT CB.

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MAP 0071-12

1
3
A
B

A
A

A 4956 CHAN ISOLATION
F
1 PAPER ONLY MAP
3
PAGE 14 OF 16

- 068
- REMOVE THE FRONT COVER.
 - SEE THE POWER SUPPLY ON THE SUSPECT UNIT(S)
 - SEE THE MIM, 'POWER SUPPLY LOCATION(S)'
 - SEE THE POWER SUPPLY LOGIC(S) YAXXX.
 - SEE THE POWER ON RESET LINE.
 - PROBE THE POR PIN ON THE POSITION WHERE IT ENTERS ON THE BOARD.
 - SEE LOGICS AXXXX OR A9100.
 - POWER OFF THE SYSTEM.

WHEN PROBING THE POR PULSE, THE PROBE WILL SHOW THE FOLLOWING SEQUENCE WHEN THE SYSTEM IS POWERED ON.

PROBE THIS IS:

UP.....+5V AT THE PROBE.

DOWN.....POR PULSE ACTIVE.

UP.....POR PULSE NOT ACTIVE.

- POWER ON THE SYSTEM.
- SEE THE LED(S) ON THE PROBE.

IS THE POR PULSE CORRECT ON THIS POSITION?

Y N

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A A
G H

A A MAP 0071-14
G H

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- 069
- | THE PROBLEM IS IN THE CABLE FROM THE POWER SUPPLY TO THE BOARD OR SOMETHING CONNECTED TO THE BOARD. SUSPECT A GROUND IN THIS AREA.
 - | USE MAP 1470 TO ISOLATE THE POR LINE TO THE POWER SUPPLY.
 - | - ISOLATE AND REPAIR THE PROBLEM.
 - | - VERIFY THE REPAIR.

070

- PROBE POR PIN ON ALL THE POSITIONS ON THE BOARD.
- NOTE POR PIN ON THE 'A' CARD POSITION.
- SEE LOGICS AXXXX OR A9100.
- POWER OFF THE SYSTEM.

WHEN PROBING THE POR PULSE, THE PROBE WILL SHOW THE FOLLOWING SEQUENCE WHEN THE SYSTEM IS POWERED ON.

PROBE THIS IS:

UP.....+5V AT THE PROBE.

DOWN.....POR PULSE ACTIVE.

UP.....POR PULSE NOT ACTIVE.

- POWER ON THE SYSTEM.
- SEE THE LED(S) ON THE PROBE.

IS THE POR PULSE CORRECT ON ALL POR PINS?

Y N

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| |

1 1
5 5
A A
J K

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MAP 0071-14

U W A
1 1 N
0 1 1
5

4956 CHAN ISOLATION

MAP 0071-16

PAPER ONLY MAP

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077

SUSPECT A POLL JUMPER IS NOT
CORRECT.
WHEN A CARD IS SEATED OR
UNSEATED, THE POLL JUMPER
MUST BE CHECKED.

- SEE THE CORRECT BOARD
LOGIC, AXXXX, FOR THE POLL
NETWORK.

- SEE THE CORRECT LOGIC FOR
YOUR BOARD AND THE THEORY
DIAGRAMS MANUAL, 'POLL' FOR
ADDITIONAL INFORMATION OF
THE POLLING CIRCUIT.

078

THE SEATED STORAGE ON THE
PROCESSOR CARD IS SUSPECT.
GO TO PAGE 12, STEP 057,
ENTRY POINT RP.

079

THE UNIT WITH THE TWO CHANNEL
SWITCH INSTALLED AND ALL UNITS
ATTACHED TO THE TWO CHANNEL
SWITCH ARE EXPANSION UNITS FOR
THIS SYSTEM.
GO TO PAGE 5, STEP 022,
ENTRY POINT US.

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MAP 0071-16

PAPER ONLY MAP

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ENTRY POINTS

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

0021	A	2	001
0070	A	2	001
0071	A	2	001

EXIT POINTS

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

26	139	0016	A
26	142	0016	A
3	007	0070	A
5	017	0070	A
8	038	0070	A
10	059	0070	A
11	071	0070	A
3	004	1071	A
11	076	1071	A
10	067	1470	A
34	167	1470	A
36	174	1470	A
36	176	1470	A

C D
2 2

INTERMITTENT PROBLEM

MAP 0072-3

PAPER ONLY MAP

PAGE 3 OF 36

004
GO TO MAP 1071, ENTRY POINT A.

005
- SEE IF THE PROBLEM IS AN
INTERMITTENT.

IS THE PROBLEM INTERMITTENT?
Y N

006
THE PROBLEM IS SPECIFIC AND
SOLID.

- SEE IF YOU HAVE BEEN IN MAP
0070 BEFORE ENTERING THIS
MAP.

HAVE BEEN IN MAP 0070 BEFORE
ENTERING THIS MAP?

Y N

007
GO TO MAP 0070,
ENTRY POINT A.

008
GO TO STEP 009,
ENTRY POINT EL.

009
(ENTRY POINT EL)

- SEE IF THE PROBLEM APPEARS TO
BE CAUSED BY HARDWARE.

IS THE PROBLEM CAUSED BY
HARDWARE?

Y N

4 4
E F

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MAP 0072-3

E F
3 3

INTERMITTENT PROBLEM

MAP 0072-4

PAPER ONLY MAP

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010

- GO TO THE SOFTWARE PROBLEM SOLVING PROCEDURE.

011

- SEE IF ERROR LOGGING WAS ACTIVE AT THE TIME OF THE FAILURE.

- SOME ATTACHMENTS HAVE HARDWARE ERROR LOGGING THAT ARE ALWAYS ACTIVE.

- 4954/4956 PROCESSOR HARDWARE ERROR LOGGING IS INACTIVE WHILE RUNNING DIAGNOSTIC.

SEE THE CSR HANDBOOK (P D SECTION) FOR ERROR LOG INSTRUCTIONS.

HARDWARE ERROR LOGGING IS ON:

-
- 4952 MOD D DISK/DISKETTE
 - 4954 PROCESSOR.
 - 4954 MOD D DISK/DISKETTE
 - 4956 PROCESSOR, NOT MODEL J/K
 - 4956 MOD D DISK/DISKETTE
 - 4956-EXX DISK/DISKETTE
 - 4965 MOD D DISK/DISKETTE
 - 4967 DISK
 - 4968 TAPE.
 - 5200 SERIES PRINTERS
 - 4973 PRINTER
 - LOCAL COMMUNICATION CONTROLER
 - MCA DISK/DISKETTE
 - MULTIDROP WORK STATION ATTACHMENT

WAS ERROR LOGGING ACTIVE AT TIME OF FAILURE?

Y N

012

- SEE THE NOTE ---->
- RECORD CSS WORDS AND PSW FOR ALL DEVICES, OR FAILING DEVICE IF KNOWN, IF FAILURE IS PRESENT.
- IPL THE DIAGNOSTIC DISKETTE UNIT.
- RUN THE AUTO DIAGNOSTICS.

CSS = CYCLE STEAL STATUS WORD

IS A PROBLEM FOUND?

Y N

6 5 5
G H J

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MAP 0072-4

J
4

INTERMITTENT PROBLEM

PAPER ONLY MAP

PAGE 5 OF 36

013

- RUN THE DIAGNOSTIC(S) FOR THE DEVICE(S) SUSPECTED FROM THE CUSTOMER'S PROBLEM OR FAILURE .
- LOOP FOR 'X' MINUTES.

IS A PROBLEM FOUND?

Y N

014

- RUN THE SYSTEM TEST.

IS A PROBLEM FOUND?

Y N

015

- USE CSS WORDS AND PSW FOR FURTHER PROBLEM DETERMINATION.
- FOR CSS, GO TO THE CSR HANDBOOK.
- FOR PSW, GO TO PAGE 12, STEP 081, ENTRY POINT CR.

016

- SEE IF THE PROBLEM CAN BE ISOLATED TO ONE DEVICE AND/OR ATTACHMENT.

CAN THE PROBLEM BE ISOLATED TO ONE DEVICE AND/OR ATTACHMENT?

Y N

K L M

H K L M

4

MAP 0072-5

017

- REVIEW THE CLASS OF DEVICE(S) FAILING AND SYSTEM TEST FAILURES, IF ANY.

IT IS PROBABLE ONE DEVICE IS CAUSING THE OTHER TO FAIL. THERE IS A PROBABLE BOARD, POWER SUPPLY, CHANNEL REPOWER CARD OR A CABLE PROBLEM. MAP 0070 MAY BE USEFUL. IT IS A MAP USED TO ISOLATE THE CHANNEL.

GO TO MAP 0070, ENTRY POINT A.

018

- GO TO PAGE 10, STEP 060, ENTRY POINT L.

019

- GO TO THE DEVICE MAP PROLOG, SECTION 0.0 FOR MORE PROBLEM DETERMINATION.

020

- GO TO THE DEVICE MAP PROLOG, SECTION 0.0 FOR MORE PROBLEM DETERMINATION.

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MAP 0072-5

G
4

INTERMITTENT PROBLEM

MAP 0072-6

PAPER ONLY MAP

PAGE 6 OF 36

021

- DUMP THE ERROR LOG.
- RESET ALL ERRORS.

SEE THE CSR HANDBOOK (P D SECTION) FOR ERROR LOG INSTRUCTIONS.
USE SYSTEM TEST DISKETTE TO PRINT THE HARDWARE ERROR LOG
SEE MAP 0019

ARE THERE ANY DEVICE(S) WITH A NUMBER OF ERRORS?

Y N

022

A SOFTWARE PROBLEM IS SUSPECTED, OR THE ERRORS HAVE BEEN RESET. GET MORE INFORMATION FROM THE CUSTOMER.

023

- SEE THE DEVICE(S) WITH THE 'LATEST' ERRORS.

'LATEST' IS RELATIVE TO THE CUSTOMER'S TIME OF PROBLEM OR FAILURE.

ARE THE DEVICE(S) WITH ERRORS 'LATEST'?

Y N

024

- SEE IF THE ERRORS ARE SIMILAR TO THE CUSTOMER'S PROBLEM.

ARE THE ERRORS SIMILAR TO THE CUSTOMER'S PROBLEM?

Y N

025

GO TO PAGE 7, STEP 033, ENTRY POINT B.

7 7
N P

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MAP 0072-6

N P
6 6

INTERMITTENT PROBLEM

PAPER ONLY MAP

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026

GO TO STEP 027,
ENTRY POINT D.

027

(ENTRY POINT D)

THE LOGGED ERRORS ARE SIMILAR TO
THE CUSTOMER'S PROBLEM.

- SEE THE DEVICE(S) WITH THE
'STAND OUT' ERRORS.

'STAND OUT' IS THE NUMBER OF
ERRORS FOR A GIVEN DEVICE THAT
ARE LARGE RELATIVE TO THE NUMBER
OF I/O OPERATION(S), OR A RECORD
OF A PERMANENT ERROR.

DOES A SPECIFIC DEVICE 'STAND
OUT' IN THE ERROR LOG PRINTOUT?

Y N

028

- SEE THOSE DEVICE(S) IN THE
ERROR LOG PRINTOUT WHICH HAVE
A LARGE NUMBER OF I/O
OPERATION(S).

DO ALL THOSE DEVICE(S) HAVE
ERROR(S)?

Y N

9 9

Q R S

S

MAP 0072-7

029

- SEE IF ERRORS ARE LIMITED TO
I/O DEVICES AND NOT THE
PROCESSING UNIT.

ARE ERRORS LIMITED TO I/O
DEVICE(S) AND NOT THE PROCESSING
UNIT?

Y N

030

- LOOP ON PROCESSING UNIT
DIAGNOSTICS.

- SEE THE MAP PROLOG 2000, FOR
PROCESSING UNIT DIAGNOSTICS.

031

- SEE THE DEVICE(S) AND THE
'CLASS' OF ERRORS.

'CLASS' MAY BE DEVICE(S) OF ALL
THE SAME TYPE, OR ALL DEVICE(S)
IN A COMMON BOARD, AND SO ON.

ARE THE ERRORS LIMITED TO A
SPECIFIC 'CLASS' OF DEVICE(S)?

Y N

032

GO TO PAGE 9, STEP 054,
ENTRY POINT C.

033

(ENTRY POINT B)

- IPL THE DIAGNOSTIC DISKETTE
UNIT.

- RUN THE AUTO DIAGNOSTICS.

IS A PROBLEM FOUND?

Y N

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8 8

T U

MAP 0072-7

U
7

INTERMITTENT PROBLEM

PAPER ONLY MAP

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034

- RUN ALL DIAGNOSTIC(S) FOR THE CLASS OF DEVICE(S).

IS A PROBLEM FOUND?

Y N

035

- RUN THE SYSTEM TEST.

IS A PROBLEM FOUND?

Y N

036

- REVIEW THE ERROR LOG PRINTOUT AGAIN.

037

- SEE IF THE INDICATED PROBLEM COMPARES WITH THE ERROR LOG PRINTOUT.

DOES THE INDICATED PROBLEM COMPARE WITH THE ERROR LOG PRINTOUT?
Y N

038

YOU HAVE AN INTERMITTENT FAILURE.
GO TO MAP 0070, ENTRY POINT A.

039

- SEE IF THE PROBLEM CAN BE ISOLATED TO ONE DEVICE AND/OR ATTACHMENT.

CAN THE PROBLEM BE ISOLATED TO ONE DEVICE AND/OR ATTACHMENT?

Y N

T V W X
7

MAP 0072-8

040

- REVIEW THE CLASS OF DEVICE(S) FAILING, THE LOG INFORMATION, AND THE SYSTEM TEST FAILURES, IF ANY. PROBABLE ACTION BETWEEN DEVICE(S). PROBABLE POWER PROBLEM COMMON TO DEVICE(S). MAP 0070 MAY BE USEFUL. IT IS A MAP USED TO ISOLATE THE CHANNEL.

041

- LOOP FOR 'X' MINUTES.

IS A PROBL FOUND?

Y N

042

GO TO PAGE 10, STEP 060, ENTRY POINT L.

043

- GO TO THE DEVICE MAP PROLOG, SECTION 0.0 FOR MORE PROBLEM DETERMINATION.

044

- GO TO THE DEVICE MAP PROLOG, SECTION 0.0 FOR MORE PROBLEM DETERMINATION.

045

- GO TO THE DEVICE MAP PROLOG, SECTION 0.0 FOR MORE PROBLEM DETERMINATION.

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V W X

MAP 0072-8

Q R
7 7

INTERMITTENT PROBLEM

MAP 0072-9

PAPER ONLY MAP

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(STEP 050 CONTINUED)

046

A PROBLEM ON THE I/O INTERFACE IS SUSPECTED. ANALYZE THE INCIDENT LOG TO SEE IF THE PROBLEM CAN BE ISOLATED OR, IPL THE DIAGNOSTIC DISKETTE AND RUN THE AUTO DIAGNOSTICS TO SEE IF THE PROBLEM CAN BE FOUND.

DOES A SPECIFIC ERROR CONDITION 'STAND OUT' FOR A DEVICE?

Y N

HAS THE PROBLEM BEEN ISOLATED?

Y N

052

RUN ALL DIAGNOSTIC(S) FOR THAT CONDITION.

047

GO TO STEP 054, ENTRY POINT C.

IS A PROBLEM FOUND?

Y N

048

- GO TO THE DEVICE MAP PROLOG, SECTION 0.0 FOR MORE PROBLEM DETERMINATION.

053

- LOOP FOR 'X' MINUTES.

IS A PROBLEM FOUND?

Y N

049

- IPL THE DIAGNOSTIC DISKETTE UNIT.
- RUN THE AUTO DIAGNOSTICS.

054

(ENTRY POINT C)

- RUN THE SYSTEM TEST.

IS A PROBLEM FOUND?

Y N

IS A PROBLEM FOUND?

Y N

050

- SEE THE DEVICE(S) WITH THE 'STAND OUT' ERRORS.

055

- CONTINUE RUNNING SYSTEM TEST, AS YOU PUT PRESSURE ON ONE CABLE AT A TIME.

'STAND OUT' IS THE NUMBER OF ERRORS FOR A GIVEN DEVICE THAT ARE LARGE RELATIVE TO THE NUMBER OF I/O OPERATION(S), OR A RECORD OF A PERMANENT ERROR. (STEP 050 CONTINUES)

IS A PROBLEM FOUND?

Y N

1
0
Y

1 1 1 1
1 0 0 0 0
0 A A A A
Z A B C D

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MAP 0072-9

A A A INTERMITTENT PROBLEM
B C D
9 9 9 PAPER ONLY MAP

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056

- REVIEW ERROR PRINTOUT
AGAIN.
- ANALYZE CUSTOMER USE FOR
MORE INFORMATION.

057

- GO TO THE DEVICE MAP PROLOG,
SECTION 0.0 FOR MORE PROBLEM
DETERMINATION.

058

- SEE IF THE PROBLEM COMPARES
WITH THE ERROR LOG PRINTOUT.

DOES THE PROBLEM COMPARE WITH THE
ERROR LOG PRINTOUT?

Y N

059

YOU HAVE AN INTERMITTENT
FAILURE.
GO TO MAP 0070, ENTRY POINT A.

060

(ENTRY POINT L)

RUN SYSTEM TEST WITH 'STOP ON
ERROR' ON.

DID THE CHECK LED COME ON?

Y N

061

START SYSTEM TEST WITH ONLY ONE
DEVICE AND ADD DEVICES ONE AT A
TIME UNTIL PROBLEM RETURNS.
SEE MAP 0016 FOR SYSTEM TEST
OPTIONS.
MAP 0070 MAY BE USEFUL TO
ISOLATE THE CHANNEL

B Y Z A A
2 9 9 A E
9

MAP 0072-10

062

GO TO PAGE 12,
STEP 079,
ENTRY POINT L0.

063

- GO TO THE DEVICE MAP
PROLOG, SECTION 0.0 FOR
MORE PROBLEM
DETERMINATION.

064

- GO TO THE DEVICE MAP
PROLOG, SECTION 0.0 FOR
MORE PROBLEM DETERMINATION.

065

- GO TO THE DEVICE MAP PROLOG,
SECTION 0.0 FOR MORE PROBLEM
DETERMINATION.

066

- SEE IF YOU HAVE COME HERE FROM
A POWER SUPPLY MAP.

HAVE YOU COME TO THIS MAP FROM A
POWER SUPPLY MAP?

Y N

067

- USE MAP 1470 TO FIND THE
CORRECT POWER SUPPLY MAP TO
GO TO.

IF NO REPAIR, RETURN HERE AND
TAKE THE YES LEG.

GO TO MAP 1470, ENTRY POINT A.

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MAP 0072-10

A
E

1
1
A
F

A
F
1
0

INTERMITTENT PROBLEM

PAPER ONLY MAP

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068

- POWER ON

DOES MODULE POWER ON AND POWER GOOD LED REMAIN OFF?

Y N

069

THERE IS A POWER SUPPLY PROBLEM TO A MODULE.

- POWER OFF
- USE THE POWER SUPPLY LOGIC AND DISCONNECT LOAD TO THE SUSPECTED POWER SUPPLY.
- SEE THE PROCESSING UNIT MIM FOR CAUTIONS.
- POWER ON

DOES THE POWER PROBLEM REMAIN ON SYSTEM?

Y N

070

- POWER OFF

PROBLEM IS NOT PART OF THE POWER SUPPLY.

- ISOLATE TO THE FAILING WIRE BY CONNECTING WIRE(S) ONE OR TWO AT A TIME TO THE TB TERMINAL(S).

ISOLATED TO A FAILING FIELD REPLACEMENT UNIT?

Y N

A A A A
G H J K

A A A A
G H J K

MAP 0072-11

071

- USE MAP 0070 TO AID IN ISOLATING TO THE FIELD REPLACEMENT UNIT.

THE PROBLEM MAY BE CAUSED BY AN I/O ATTACHMENT.

GO TO MAP 0070, ENTRY POINT A.

072

- VERIFY THE REPAIR.

073

- POWER OFF
- TEST THE FUSE(S).
- TEST FOR MISSING OR FAILING REGULATOR CARD(S).

DOES THE FAILURE REMAIN?

Y N

074

- VERIFY THE REPAIR.

075

- EXCHANGE THE POWER SUPPLY.

IF THIS HAS ALREADY BEEN DONE, MAKE AN INSPECTION OF THE VOLTAGE DISTRIBUTION NETWORK.

076

THE LED IS SUSPECT.
GO TO MAP 1071, ENTRY POINT A.

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MAP 0072-11

A
2 INTERMITTENT PROBLEM
PAPER ONLY MAP

PAGE 12 OF 36

077
- SEE IF THE 'CHECK' LED IS ON.

IS THE CHECK LED ON?

Y N

078
GO TO PAGE 2, STEP 002,
ENTRY POINT CT.

079
(ENTRY POINT L0)

- SEE IF ANY LEVEL LED IS ON.

IS ANY LEVEL LAMP ON?

Y N

080
- PRESS THE PROCESSING UNIT
STATUS WORD KEY.
- RECORD THE PROCESSING UNIT
STATUS WORD.
GO TO PAGE 2, STEP 002,
ENTRY POINT CT.

A
L

A
L MAP 0072-12

081
(ENTRY POINT CR)

- PRESS THE STOP KEY.
- PRESS THE PROCESSING UNIT
STATUS WORD KEY AND RECORD THE
PSW.

YOU HAVE THE FAILURE ON THE
SYSTEM WITH THE PROCESSING UNIT
STATUS WORD BIT(S) AT THE TIME OF
THE FAILURE.

PROCESSING UNIT STATUS WORD

CLASS	BIT	MEANING
	0	SPECIFICATION CHECK
	1	INVALID STORAGE ADDR.
PROGRAM	2	PRIVILEGE VIOLATE
CHECK	3	PROTECT CHECK (4955)
	4	NOT VALID FUNCTION
	5	FLOATING POINT
SOFT	6	STACK EXCEPTION
EXCEPTION	7	4 BIT KEY ENABLED
	8	STORAGE PARITY CHECK
	9	RESERVED
MACHINE	10	CONTROL CHECK
CHECK	11	INPUT/OUTPUT CHECK
	12	SEQUENCE INDICATOR
STATUS	13	AUTO IPL
FLAGS	14	TRANSLATOR ENABLED
	15	POWER THERMAL WARNING

IS BIT 15 ON IN THE PROCESSING
UNIT STATUS WORD?

Y N

| |
| |
| |

3 1

3 3

A A

M N

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MAP 0072-12

A
N
1
2

INTERMITTENT PROBLEM
PAPER ONLY MAP
PAGE 13 OF 36

082
- SEE PSW BIT 14.

IS BIT 14 ON IN THE PSW?
Y N

083
- SEE PSW BIT 13.

IS BIT 13 ON IN THE PSW?
Y N

084
- SEE PSW BIT 12.

IS BIT 12 ON IN THE PSW?
Y N

085
(ENTRY POINT HE)
- SEE PSW BIT 11.

IS BIT 11 ON IN THE PSW?
Y N

086
- SEE PSW BIT 10.

IS BIT 10 ON IN THE PSW?
Y N

2 2 2 2 2
6 6 5 3 3
A A A A A
P Q R S T U

A
U

MAP 0072-13

087
- SEE PSW BIT 09.

IS BIT 09 ON IN THE PSW?
Y N

088
- SEE PSW BIT 08.

IS BIT 08 ON IN THE PSW?
Y N

089
- SEE PSW BIT 07.

IS BIT 07 ON IN THE PSW?
Y N

090
- SEE PSW BIT 06.

IS BIT 06 ON IN THE PSW?
Y N

091
- SEE PSW BIT 05.

IS BIT 05 ON IN THE PSW?
Y N

2 2 2 2 2 1
3 2 1 0 0 4
A A A A A B
V W X Y Z A

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MAP 0072-13

B
A
1
3

INTERMITTENT PROBLEM

PAPER ONLY MAP

PAGE 14 OF 36

092

- SEE PSW BIT 04.

IS BIT 04 ON IN THE PSW?

Y N

093

- SEE PSW BIT 03.

IS BIT 03 ON IN THE PSW?

Y N

094

- SEE PSW BIT 02.

IS BIT 02 ON IN THE PSW?

Y N

095

- SEE PSW BIT 01.

IS BIT 01 ON IN THE PSW?

Y N

096

- SEE PSW BIT 00.

IS BIT 00 ON IN THE PSW?

Y N

1 1 1 1
9 9 8 6
B B B B B B
B C D E F G

B B
F G

MAP 0072-14

097

GO TO PAGE 2, STEP 002,
ENTRY POINT CT.

098

BIT 00 IS ON IN THE PSW.
THIS IS A SPECIFICATION CHECK.
BIT 00 IS ON WHEN THE STORAGE
ADDRESS IS NOT INSIDE THE
BOUNDARY SPECIFICATION(S).
(IT IS ON AN ODD-NUMBERED
ADDRESS).

- PRESS THE STOP KEY.
- PRESS THE SAR KEY.
- SEE SAR BIT 15.

IS BIT 15 ON IN THE SAR?

Y N

099

IF 4955 PROCESSING UNIT IS
INSTALLED, EXCHANGE THE
FOLLOWING:
ROS CARD.
ADDRESS CARD.
DATA CARD.
ADDRESS TRANSLATOR OR
EXPANDER, IF INSTALLED.

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

100

- SEE PSW BIT 14.

IS BIT 14 ON IN THE PSW?

Y N

1 1
5 5
B B
H J
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MAP 0072-14

B
J
1
4

INTERMITTENT PROBLEM

PAPER ONLY MAP

PAGE 15 OF 36

|
|

101

- DISPLAY AND RECORD THE
FOLLOWING:
OP REGISTER.
CIAR
IAR
LEVEL.

THE IAR IS THE STORAGE ADDRESS OF
THE INSTRUCTION.

- DISPLAY THE STORAGE LOCATION.
- DECODE THE INSTRUCTION TO SEE
THE COMMAND AND REGISTER USED
WHEN THE FAILURE OCCURRED.
THE SOURCE OF SAR BIT 15 MUST BE
DETERMINED. IF YOU CAN NOT
DETERMINE THE SOURCE OF BIT 15:

IF 4955 PROCESSING UNIT IS
INSTALLED, EXCHANGE THE
FOLLOWING:
ROS CARD.
ADDRESS CARD.
DATA CARD.
ADDRESS TRANSLATOR OR
EXPANDER, IF INSTALLED.

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

B
H
1
4

MAP 0072-15

|
|

102

THE SYSTEM FAILED IN TRANSLATED
MODE. THE ADDRESS OF THE
INSTRUCTION AND COMMAND MUST BE
DETERMINED. THE TRANSLATOR ENTRY
POINT OF THIS MAP DOES THIS .

DO YOU KNOW THE TRANSLATED
ADDRESS THAT FAILED?

Y N

| 103

- GO TO ENTRY POINT INDICATED.
- RETURN HERE WHEN ADDRESS IS
DETERMINED, AND ANSWER ABOVE
QUESTION 'YES'
GO TO PAGE 26, STEP 144,
ENTRY POINT TR.

|
1
6
B
K

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MAP 0072-15

B B INTERMITTENT PROBLEM
E K
1 1 PAPER ONLY MAP
4 5
PAGE 16 OF 36

104
THE IAR IS THE STORAGE LOCATION
OF THE INSTRUCTION.

- DISPLAY THE STORAGE LOCATION.
- DECODE THE INSTRUCTION TO SEE
WHAT COMMAND AND REGISTER WAS
USED WHEN THE FAILURE
OCCURRED.
- DETERMINE THE SOURCE OF SAR
(BIT 15).

IF YOU CAN NOT DETERMINE THE
SOURCE:

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

- ROS CARD.
- DATA CARD.
- ADDRESS CARD.
- ADDRESS TRANSLATOR OR
EXPANDER, IF INSTALLED.

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

- PROCESSING UNIT CARD.

105
BIT 01 IS ON IN THE PSW.
A NOT VALID STORAGE ADDRESS.
BIT 01 IS ON WHEN AN ATTEMPT IS
MADE TO ADDRESS A STORAGE
LOCATION THAT IS NOT INSTALLED ON
THE SYSTEM.

- SEE PSW BIT 14.

IS BIT 14 ON IN THE PSW?

Y N

1 1

7 7

B B

L M

B MAP 0072-16
M

106
(ENTRY POINT ST)

- SEE THE SAR.

IS THE SAR VALID FOR THE SYSTEM?
Y N

107
- RECORD THE STORAGE ADDRESS
REGISTER, INSTRUCTION ADDRESS
REGISTER, CURRENT INSTRUCTION
ADDRESS REGISTER AND
REGISTERS 0 - 7.
- DECODE THE INSTRUCTION
LOCATED AT THE CURRENT
INSTRUCTION ADDRESS REGISTER
ADDRESS AND THE EFFECTIVE
ADDRESS OF THE COMMAND.

IS THE EFFECTIVE ADDRESS OF
EITHER COMMAND HIGHER THAN THE
INSTALLED STORAGE?

Y N

108
IF 4955 PROCESSING UNIT IS
INSTALLED, EXCHANGE THE
FOLLOWING:
ROS CARD.
ADDRESS CARD.
DATA CARD.
ADDRESS TRANSLATOR OR
EXPANDER, IF INSTALLED.

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

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1 1
7 7 ECA40867 PECA40740

B B
N P MAP 0072-16

B
D
1
4

INTERMITTENT PROBLEM
PAPER ONLY MAP
PAGE 18 OF 36

116

BIT 02 IS ON IN THE PSW.

- SEE 'PROCESSING UNIT THEORY
DIAGRAMS', 'PROCESSING UNIT
STATUS WORD', 'BIT 02,
PRIVILEGE VIOLATE'.

BIT 02 IS ON WHEN A PRIVILEGE
INSTRUCTION IS ATTEMPTED, AND THE
SUPERVISOR STATUS BIT (BIT 8) IN
THE LSR IS OFF.

- DISPLAY THE CIAR.
- DECODE THE INSTRUCTION AT THE
CIAR.

IS BIT 14 ON IN THE PSW?

Y N

117

(ENTRY POINT PV)

- SEE IF THE INSTRUCTION IS A
'PRIVILEGE' INSTRUCTION.

IS THE INSTRUCTION A
'PRIVILEGE' INSTRUCTION?

Y N

1
9
B B B
S T U

B B
T U

MAP 0072-18

118

IF 4955 PROCESSING UNIT IS
INSTALLED, EXCHANGE THE
FOLLOWING:
ADDRESS CARD.
ADDRESS TRANSLATOR OR
EXPANDER, IF INSTALLED.
DATA CARD.
ROS CARD.

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

119

- SEE IF BIT 08 IS ON IN THE LSR.

IS BIT 08 ON IN THE LSR?

Y N

120

YOU MUST DETERMINE WHY BIT 08
IN THE LSR IS OFF.
THIS MAY BE A SOFTWARE PROBLEM.
REQUEST AID.

121

IF 4955 PROCESSING UNIT IS
INSTALLED, EXCHANGE THE
FOLLOWING:
ADDRESS CARD.
ADDRESS TRANSLATOR OR
EXPANDER, IF INSTALLED.
DATA CARD.
ROS CARD.

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MAP 0072-18

B B INTERMITTENT PROBLEM
C S
1 1 PAPER ONLY MAP
4 8
PAGE 19 OF 36

|
|
| 122
| THE SYSTEM WAS RUNNING IN
| TRANSLATED MODE. THE ADDRESS
| MUST BE TRANSLATED BY YOU.
| GO TO PAGE 26, STEP 144,
| ENTRY POINT TR.

| WHEN THE ADDRESS HAS BEEN
| TRANSLATED BY YOU,
| GO TO PAGE 18, STEP 117,
| ENTRY POINT PV.

|
123
BIT 03 (PROTECT CHECK) IS ON IN
THE PSW.

IF 4955 PROCESSING UNIT IS
INSTALLED, EXCHANGE THE
FOLLOWING:

ADDRESS CARD.
ADDRESS TRANSLATOR OR
EXPANDER, IF INSTALLED.
DATA CARD.
ROS CARD.

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

PROCESSING UNIT CARD.

B MAP 0072-19
B
1
4

|
|
| 124
| BIT 04 IS ON IN THE PSW.

- SEE 'PROCESSING UNIT THEORY
DIAGRAMS', 'PROCESSING UNIT
STATUS WORD', 'BIT 04, NOT
VALID FUNCTION'.

BIT 04 IS ON WHEN THE OP CODE AND
FUNCTION DOES NOT DECODE TO A
CORRECT FUNCTION.

- PRESS THE OP REGISTER KEY.

DOES THE OP REGISTER CONTAIN A
VALID FUNCTION?

Y N

|
| 125
| THIS CAN BE A SOFTWARE PROBLEM.
| THE PROGRAM CAN BE WRITTEN
| OVER.
| THE PROGRAM CAN HAVE A BAD
| BRANCH IN IT.
| THE PROGRAM CAN HAVE AN
| ASSEMBLY PROBLEM.
| USE SOFTWARE AIDS.

|
2
0
B
V

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MAP 0072-19

A B INTERMITTENT PROBLEM
Z V
1 1 PAPER ONLY MAP
3 9
PAGE 20 OF 36

| |
| |
| 126
| IF 4955 PROCESSING UNIT IS
| INSTALLED, EXCHANGE THE
| FOLLOWING:
| ROS CARD.
| DATA CARD.
| ADDRESS CARD.
| ADDRESS TRANSLATOR OR
| EXPANDER, IF INSTALLED.
|
| IF 495X PROCESSING UNIT IS
| INSTALLED, EXCHANGE THE
| FOLLOWING:
| PROCESSING UNIT CARD.

|
127
BIT 05 IS ON IN THE PROCESSING
UNIT STATUS WORD. THIS IS A
FLOATING POINT EXCEPTION.

- EXCHANGE THE FOLLOWING:
FLOATING POINT CARD/MODULES.
DATA CARD.

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

A MAP 0072-20
Y
1
3

|
|
| 128
| BIT 06 IS ON IN THE PSW. THIS IS
| A STACK EXCEPTION. BIT 06 IS ON
| WHEN AN ATTEMPT IS MADE TO POP A
| COMMAND FROM AN EMPTY STACK, OR
| TO PUSH A COMMAND INTO A STACK
| THAT IS FILLED.
| IF 4955 PROCESSING UNIT IS
| INSTALLED, EXCHANGE THE
| FOLLOWING:
| ADDRESS CARD.
| ADDRESS TRANSLATOR OR
| EXPANDER, IF INSTALLED.
| DATA CARD.
| ROS CARD.

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

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MAP 0072-20

A
X
1
3

INTERMITTENT PROBLEM

MAP 0072-21

PAPER ONLY MAP

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1
1

129

BIT 07 IS ON IN THE PSW. IT IS
USED ONLY WITH THE 4956-E/J/K
PROCESSOR.

IF 4955 PROCESSING UNIT IS
INSTALLED, EXCHANGE THE
FOLLOWING:

ADDRESS CARD.

ADDRESS TRANSLATOR OR
EXPANDER, IF INSTALLED.

DATA CARD.

ROS CARD.

IF 4956E PROCESSOR UNIT IS
INSTALLED, RETURN TO THE STEP
THAT YOU CAME FROM AND TAKE THE
NO LEG.

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

PROCESSOR CARD(S).

TRANSLATOR/EXPANDER CARD.

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MAP 0072-21

A
W
1
3

|
|
130

2
3
B
W
2
3
B
W

INTERMITTENT PROBLEM
PAPER ONLY MAP
PAGE 22 OF 36

MAP 0072-22

BIT 08 IS ON IN THE PSW. THIS IS A STORAGE PARITY CHECK.

- PRESS THE STOP KEY.
 - PRESS THE LEVEL 3 KEY.
 - PRESS THE REGISTER 7 KEY.
- REGISTER 7 CONTENT IS THE SAR. USE THIS ADDRESS TO DETERMINE WHICH 16K AREA OF STORAGE FAILED.

STORAGE ADDRESS REGISTER CONTENT	STORAGE AREA
0000--3FFF	16K
4000--7FFF	32K
8000--BFFF	48K
C000--FFFF	64K

- EXCHANGE THE STORAGE CARD/MODULE THAT INCLUDES THE SUSPECT 16K AREA WITH A KNOWN GOOD STORAGE CARD/MODULE OF THE SAME TYPE.
- RUN THE FAILING DIAGNOSTIC.

DOES THE SYSTEM RUN O.K.?

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

IF YOU SUSPECT THE STORAGE ERROR IS IN OUTER STORAGE (ABOVE 64K), PSW BIT 14 AND BIT 8 ON, DO THE FOLLOWING:

- IPL THE SYSTEM TEST DISKETTE.
- USE THE DISPLAYED ERROR(S) TO SEE THE FAILING STORAGE ADDRESS/CARD/MODULE.
- SEE PROLOG 2000 (SECTION 4.4) FOR STORAGE TABLE.

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MAP 0072-22

A B B INTERMITTENT PROBLEM
V W X
1 2 2 PAPER ONLY MAP
3 2 2
PAGE 23 OF 36

131
IF 4955 PROCESSING UNIT IS
INSTALLED, EXCHANGE THE
FOLLOWING:
DATA CARD.
ROS CARD.
ADDRESS CARD.
ADDRESS TRANSLATOR OR
EXPANDER, IF INSTALLED.

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

132
- VERIFY THE REPAIR.

133
BIT 09 IS ON IN THE PSW. THIS
BIT IS NOT USED. THERE IS A
PROBABLE SHORT TO GROUND BETWEEN
THE STORAGE ADDRESS LINE(S) OF
THE PROCESSING UNIT.

IF 4955 PROCESSING UNIT IS
INSTALLED, EXCHANGE THE
FOLLOWING:
ADDRESS CARD.
ADDRESS TRANSLATOR OR
EXPANDER, IF INSTALLED.
DATA CARD.
ROS CARD.

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

A A MAP 0072-23
S T
1 1
3 3

134
BIT 10 IS ON IN THE PSW. THIS
IS A CONTROL CHECK IT IS A
SUSPECT PROCESSING UNIT
PROBLEM.

IF 4955 PROCESSING UNIT IS
INSTALLED, EXCHANGE THE
FOLLOWING:
ADDRESS CARD.
ADDRESS TRANSLATOR OR
EXPANDER, IF INSTALLED.
DATA CARD.
ROS CARD.

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

135
(ENTRY POINT 10)

BIT 11 IS ON IN THE PSW.

THIS IS AN I/O CHECK.
THERE WAS A WRONG CHANNEL
SEQUENCE OF EVENTS.
THE PROBLEM IS ANY CARD ON THE
CHANNEL, OR ANY CARD WITH A
SIGNAL TO THE CHANNEL.

IS BIT 12 ON IN THE PROCESSING
UNIT STATUS WORD?

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

2 2 30JUL86 PN1635083
4 4 ECA40867 PECA40740
B B
Y Z MAP 0072-23

B B
Y Z
2 2
3 3

INTERMITTENT PROBLEM

MAP 0072-24

PAPER ONLY MAP

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| |
| |
| 136
| THE I/O CHECK OCCURRED IN A
| DIRECT PROGRAM CONTROL
| OPERATION.

| - PRESS THE IAR KEY.
| 'XXXX' DISPLAYED IS THE
| INSTRUCTION ADDRESS REGISTER
| USED WHEN THE CHECK OCCURRED.

| - PRESS THE SAR KEY.
| - KEY 'XXXX' ON CONSOLE.
| - PRESS THE STORE KEY.
| - PRESS THE MAIN STORAGE KEY.
| - PRESS THE MAIN STORAGE KEY.
| 'YYYY' DISPLAYED IS THE IDCB
| ADDRESS.

| - PRESS THE SAR KEY.
| - KEY 'YYYY' ON CONSOLE.
| - PRESS THE STORE KEY.
| - PRESS THE MAIN STORAGE KEY.
| 'ZZZZ' DISPLAYED IS THE IDCB
| USED WHEN CHECK OCCURRED.

| BITS 08 TO 15 OF THE IDCB
| (ZZZZ) CONTAIN THE DEVICE
| ADDRESS OF THE FAILING
| ATTACHMENT/DEVICE.

| - EXCHANGE THE ATTACHMENT CARD
| OF THIS ATTACHMENT/DEVICE.
| IF NO REPAIR, THE DEVICE IS
| PROBABLY BAD.

137
GO TO PAGE 25, STEP 138,
ENTRY POINT CS.

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MAP 0072-24

A
R
1
3

INTERMITTENT PROBLEM

MAP 0072-25

PAPER ONLY MAP

PAGE 25 OF 36

|
|

138
(ENTRY POINT CS)

BIT 12 ON = CYCLE STEAL
BIT 12 OFF = DIRECT PROGRAM CONTROL

THE SEQUENCE INDICATOR (BIT 12) IS ON. THIS IS NO ERROR. IT INDICATES THE LAST INTERFACE SEQUENCE. WHEN BIT 11 AND BIT 12 ARE ON IN THE PROCESSING UNIT STATUS WORD, THE I/O CHECK OCCURRED IN A CYCLE STEAL OPERATION. IF RUNNING A DEVICE TYPE, THE IDCB MAY INDICATE THE ADDRESS OF THE DEVICE CAUSING THE I/O CHECK.

- PRESS THE IAR KEY.
'XXXX' DISPLAYED IS THE IAR USED WHEN THE CHECK OCCURRED.

- PRESS THE SAR KEY.
- KEY 'XXXX' ON CONSOLE.
- PRESS THE STORE KEY.
- PRESS THE MAIN STORAGE KEY.
'YYYY' DISPLAYED IS THE IDCB ADDRESS.

- PRESS THE SAR KEY.
- KEY 'YYYY' ON THE CONSOLE.
- PRESS THE STORE KEY.
- PRESS THE MAIN STORAGE KEY.
'ZZZZ' DISPLAYED IS THE IDCB USED WHEN CHECK OCCURRED. BITS 08 TO 15 OF THE IDCB (ZZZZ) CONTAIN THE DEVICE ADDRESS OF THE FAILING ATTACHMENT/DEVICE.

IS IDCB ADDRESS EQUAL TO ADDRESS OF DEVICE RUNNING WHEN ERROR OCCURRED?

Y N
| |
| |
| |
| |

2 2
6 6
C C
A B

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MAP 0072-25

C C INTERMITTENT PROBLEM
A B
2 2 PAPER ONLY MAP
5 5
PAGE 26 OF 36

| |
| |
| 139
| - NOTE THE ATTACHMENT CARD
| INDICATED BY THE IDCB
| ADDRESS.
| - NOTE ALL CYCLE STEAL
| ATTACHMENTS INSTALLED ON THE
| SYSTEM.
| GO TO MAP 0016, ENTRY POINT A.

140
- EXCHANGE THE ATTACHMENT CARD
INDICATED BY THE DEVICE ADDRESS
OF THE IDCB, BITS 08 TO 15.
- RUN THE FAILING PROGRAM AGAIN.

DID THE SAME FAILURE OCCUR?
Y N

| 141
| - VERIFY THE REPAIR.

142
THE ATTACHMENT CARD INDICATED BY
THE IDCB IS GOOD.

- NOTE ALL OTHER CYCLE STEAL
ATTACHMENTS INSTALLED ON THE
SYSTEM THAT WERE RUNNING AT
TIME OF FAILURE.
- NOTE THE DEVICE THAT IS
CONNECTED TO THE CARD JUST
TESTED, IF ANY. THE DEVICE MAY
BE CAUSING THE PROBLEM.
GO TO MAP 0016, ENTRY POINT A.

A A MAP 0072-26
P Q
1 1
3 3

| |
| |
| 143
| BIT 13 IS ON IN THE PSW.
| THIS IS THE AUTO IPL BIT. WHEN
| THE SWITCH ON THE BASIC CONSOLE
| IS IN 'AUTO IPL' MODE, AND THE
| HOST SYSTEM IS READY, ANY POWER
| ON CAUSES AN IPL TO OCCUR AND
| THIS BIT TO BE ON.

| IF 4955 PROCESSING UNIT IS
| INSTALLED, EXCHANGE THE
| FOLLOWING:
| ROS CARD.
| DATA CARD.
| ADDRESS CARD.
| ADDRESS TRANSLATOR OR
| EXPANDER, IF INSTALLED.

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

144
(ENTRY POINT TR)

BIT 14 IS ON IN THE PSW.
THE TRANSLATOR IS ENABLED. THIS
IS NOT AN ERROR. IF YOU WANT TO
DETERMINE THE STORAGE ADDRESS
THAT IS FAILING AND CHANGE OR
DISPLAY IT, INDICATE THIS NOW.

DO YOU WANT TO CHANGE, DISPLAY OR
DETERMINE A STORAGE ADDRESS?
Y N

| 145
| - RETURN TO THE MAP STEP THAT
| SENT YOU HERE.

2
7
C
C

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MAP 0072-26

C
C
2
6

INTERMITTENT PROBLEM
PAPER ONLY MAP
PAGE 27 OF 36

MAP 0072-27

|
|
146

- SEE THE NOTE --->
- DO NOT RESET THE SYSTEM AS YOU FOLLOW THESE INSTRUCTIONS.

BITS 0 - 4 OF THE PSW ARE ON FOR A PCK.
BITS 8, 10, OR 11 OF THE PSW ARE ON FOR A MCK.

RECORD THE FOLLOWING:

| LSB | (LEVEL STATUS BLOCK)

- 1. PSW
- 2. SAR
* SAR IS RECORD 1 *

LSB WORD	CONTENT
0	IAR
1	AKR
2	LSR
3	REGISTER 0
4	REGISTER 1
5	REGISTER 2
6	REGISTER 3
7	REGISTER 4
8	REGISTER 5
9	REGISTER 6
10	REGISTER 7 = SAR.

- 3. IAR
- 4. CIAR
- 5. LSR
- 6. LEVEL = LEVEL
- 7. OP CODE.
- 8. REGISTERS 0 - 7.

- PRESS THE INSTRUCTION STEP MODE KEY.
- PRESS THE START KEY.

THE MICRO PROGRAM WILL LOAD THE HARDWARE LSB TO STORAGE.

- SEE PROLOG 2000 (SECTION 4.4) STORAGE TABLE.

IS THIS A PROGRAM CHECK?

Y N

| 147
| THIS IS A MACHINE CHECK.
| BITS 8, 10, OR 11 ON IN THE PSW.

| IS BIT 8 ON IN THE PSW?

| Y N

| 148
| GO TO PAGE 13, STEP 085, ENTRY POINT HE.

2 2
8 8
C C
D E

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MAP 0072-27

C C INTERMITTENT PROBLEM
D E
2 2 PAPER ONLY MAP
7 7
PAGE 28 OF 36

MAP 0072-28

| |
| |
| 149
| - DISPLAY STORAGE LOCATION
| '0008'
| '0008' CONTENT IS THE ADDRESS
| OF THE LSB.
|
| - RECORD THIS ADDRESS.
| GO TO STEP 152,
| ENTRY POINT LS.

150
THIS IS A PROGRAM CHECK.
BITS 0 - 4 OF THE PSW ARE ON FOR
A PROGRAM CHECK.

- DISPLAY STORAGE LOCATION '000C'
'000C' CONTENT IS THE ADDRESS OF
THE LSB.

- RECORD THIS ADDRESS.

DID YOU RECORD THE ADDRESS?

Y N

| |
| 151
| - RECORD AND CONTINUE ON THE
| YES LEG.

152
(ENTRY POINT LS)

- SEE IF THE PROCESSING UNIT
INSTALLED IS:

4952
4953
4955

IS THE PROCESSING UNIT INSTALLED
ONE OF THE ABOVE?

Y N

| |
| |
| |

3 2
1 9
C C
F G

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MAP 0072-28

C
G
2
8

INTERMITTENT PROBLEM

PAPER ONLY MAP

PAGE 29 OF 36

153

- DISPLAY/RECORD 11 LSB WORDS STORED SEQUENTIALLY IN STORAGE, STARTING AT ADDRESS OF THE LSB.

DETERMINE THE FAILING ADDRESS: REMEMBER - TRANSLATOR BIT 14 OF THE PROCESSING UNIT STATUS WORD MUST BE ON. IF OFF, THE INFORMATION MAY NOT BE CORRECT.

- PRESS SAR KEY AND ENTER THE VALUE FROM R7
- PRESS STORE KEY
- PRESS SAR KEY
- PRESS AKR KEY AND ENTER THE VALUE OF BITS 4-7 OF WORD 1 (AKR). AS 000X
- PRESS STORE KEY
- PRESS SEG KEY
- THE LEDS WILL DISPLAY THE CONTENTS OF THE SEGMENTATION REGISTER SELECTED FROM THE 5 HIGH ORDER BITS OF SAR AND BITS 4-7 OF THE AKR.

LSB WORD	CONTENT
0	IAR
1	AKR
2	LSR
3	REGISTER 0
4	REGISTER 1
5	REGISTER 2
6	REGISTER 3
7	REGISTER 4
8	REGISTER 5
9	REGISTER 6
10	REGISTER 7 = SAR

- COMBINE SAR AND SEG REG BITS FOR ACTUAL ADDRESS

BIT 5-15 SAR - 00000000000
 0000000000000 - BIT 0-12 SEG

 000000000000000000000000
 24 BIT ADDRESS

- SEE PROLOG 2000 (SECTION 4.4) STORAGE TABLE.

DO YOU NEED TO DISPLAY BITS AT THE FAILING STORAGE LOCATION?

Y N

154

DO YOU NEED TO CHANGE BITS AT THE FAILING STORAGE LOCATION?

Y N

155

- RETURN TO THE STEP NUMBER THAT SENT YOU HERE

3 3
0 0
C C
H J

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C
J
2
9

INTERMITTENT PROBLEM
PAPER ONLY MAP
PAGE 30 OF 36

|
|

156

REMEMBER - TRANSLATOR BIT 14 OF THE PROCESSING UNIT STATUS WORD MUST BE ON. IF OFF, THE INFORMATION MAY NOT BE CORRECT.

- SEE THE PROCESSING UNIT DESCRIPTION MANUAL, 'STORING INTO MAIN STORAGE'.

- PRESS THE STOP KEY.
- PRESS THE SAR KEY.
- PRESS AKR KEY AND ENTER THE VALUE OF BITS 4-7 OF WORD 1 (AKR) AS 000X
- PRESS THE STORE KEY.
- PRESS SAR KEY AND ENTER THE VALUE FROM R7
- PRESS THE STORE KEY.
- PRESS THE MAIN STORAGE KEY.
- ENTER 'ZZZZ'.

'ZZZZ' = DATA TO BE STORED INTO MAIN STORAGE.

- PRESS THE STORE KEY.

THE DATA THAT IS DISPLAYED IS STORED AT THAT STORAGE LOCATION. EACH PRESSING OF THE STORE KEY CAUSES THE STORAGE ADDRESS REGISTER TO BE INCREASED BY +2, AND THE DATA THAT IS DISPLAYED IS STORED AT THAT LOCATION.

- RETURN TO STEP NUMBER THAT SENT YOU HERE

C
H
2
9

MAP 0072-30

|
|

157

REMEMBER - TRANSLATOR BIT 14 OF THE PROCESSING UNIT STATUS WORD MUST BE ON. IF OFF, THE INFORMATION MAY NOT BE CORRECT.

- SEE PROCESSING UNIT DESCRIPTION MANUAL 'TO DISPLAY A MAIN STORAGE LOCATION'.

- PRESS THE STOP KEY.
- PRESS THE SAR KEY.
- PRESS AKR KEY AND ENTER THE VALUE OF BITS 4-7 OF WORD 1 (AKR) AS 000X
- PRESS THE STORE KEY.
- PRESS SAR KEY AND ENTER THE VALUE FROM R7
- PRESS THE STORE KEY.
- PRESS THE MAIN STORAGE KEY.

THE CONTENTS OF THE STORAGE LOCATION ARE DISPLAYED IN THE DATA LEDS. TO DISPLAY SEQUENTIAL MAIN STORAGE LOCATIONS, CONTINUE PRESSING THE MAIN STORAGE KEY. THE STORAGE ADDRESS IS INCREASED BY +2 EACH TIME THE MAIN STORAGE KEY IS PRESSED, AND THE CONTENTS OF THE STORAGE LOCATION IS DISPLAYED IN THE DATA LEDS.

- RETURN TO STEP NUMBER THAT SENT YOU HERE

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MAP 0072-30

C
F
2
8

INTERMITTENT PROBLEM

MAP 0072-31

PAPER ONLY MAP

PAGE 31 OF 36

158

- DISPLAY/RECORD 11 LSB WORDS STORED SEQUENTIALLY IN STORAGE, STARTING AT ADDRESS OF THE LSB.

- SEE THE NOTE ---->

- PRESS INSTRUCTION STEP MODE KEY TO SEE CONTENTS OF SEGMENTATION REGISTER (SEG REG) USED, INSERT PROGRAM 1.

- SEE REG 7 (SAR) AND BIT 4-7 OF AKR
- PRESS THE START KEY.
- DISPLAY/RECORD LOCATION '0006' (CONTENT IS SEG REG).

YOU HAVE SEG REG AND SAR NEEDED TO DETERMINE 24 BIT PHYSICAL ADDRESS. BITS 0 - 12 OF SEG REG AND BITS 5 - 15 OF THE SAR (REG 7) ARE EQUAL TO 24 BIT PHYSICAL ADDRESS.

DO YOU NEED TO DISPLAY BITS AT (STEP 158 CONTINUES)

LSB WORD CONTENT

0	IAR
1	AKR
2	LSR
3	REGISTER 0
4	REGISTER 1
5	REGISTER 2
6	REGISTER 3
7	REGISTER 4
8	REGISTER 5
9	REGISTER 6
10	REGISTER 7 = SAR

**PROGRAM ONE (1) PUTS SEG REG INTO LOCATION X0006 AND STOPS

**LOCATION INSTRUCTION

0000		5829
0002		0006
0004		6400
0006		XXXX

LOAD REGISTER 0, BITS 0-4 FROM SAR BITS 0-4.

LOAD REGISTER 0, BITS 4-7 FROM AKR BITS 4-7.

- COMBINE SAR AND SEG REG BITS FOR ACTUAL ADDRESS

BIT 5-15 SAR - 00000000000
0000000000000 - BIT 0-12 SEG

000000000000000000000000
24 BIT ADDRESS

- SEE PROLOG 2000 (SECTION 4.4) STORAGE TABLE.

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MAP 0072-31

INTERMITTENT PROBLEM

PAPER ONLY MAP

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(STEP 158 CONTINUED)
THE FAILING STORAGE LOCATION?

Y N

159

DO YOU NEED TO CHANGE BITS AT
THE FAILING STORAGE LOCATION?

Y N

160

RETURN TO THE STEP NUMBER
THAT SENT YOU HERE

C
L

MAP 0072-32

161

- SEE THE PROCESSING UNIT THEORY
DIAGRAMS, 'STORING INTO MAIN
STORAGE'.

- PRESS THE STOP KEY.

- PRESS THE AKR KEY.

- PRESS '000X'.

'X' = BITS 4 -7 OF AKR.

- PRESS THE STORE KEY.

- PRESS THE SAR KEY.

- PRESS 'YYYY'.

'YYYY' = STORAGE ADDRESS REGISTER
(SAR).

- PRESS THE STORE KEY.

- PRESS THE MAIN STORAGE KEY.

- PRESS 'ZZZZ'.

'ZZZZ' = DATA TO BE STORED INTO
MAIN STORAGE.

- PRESS THE STORE KEY.

THE DATA THAT IS DISPLAYED IS
STORED AT THAT STORAGE LOCATION.
EACH PRESSING OF THE STORE KEY
CAUSES THE STORAGE ADDRESS
REGISTER TO BE INCREASED BY +2,
AND THE DATA THAT IS DISPLAYED IS
STORED AT THAT LOCATION.

RETURN TO STEP NUMBER THAT SENT
YOU HERE

3
3
C C
K L

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MAP 0072-32

C
Q
3
4

INTERMITTENT PROBLEM

MAP 0072-35

PAPER ONLY MAP

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1
169

- SEE THE NOTE --->

THE POR PULSE IS CORRECT IN THE POWER SUPPLY.

- PROBE THE POR PIN S05 ON ALL THE I/O CARD POSITION(S) ON THE BOARD.
- NOTE THE POR PIN ON THE 'A' CARD POSITION. SEE A3XXX OR A5XXX AS NEEDED.
- POWER OFF

WHEN PROBING THE POR PULSE, THE PROBE WILL SHOW THE FOLLOWING SEQUENCE WHEN THE SYSTEM IS POWERED ON.

PROBE MEANING OF INDICATION.

UP.....NOT POR.

DOWN.....POR PULSE.

UP.....NOT POR.

- POWER ON
- SEE THE INDICATOR(S) ON THE PROBE.

IS THE POR PULSE CORRECT ON ALL THE S05 I/O PINS?

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

3 3
6 6
C C
T U

USING GENERAL LOGIC PROBE:

THE BLACK (MINUS) WIRE CAN BE CONNECTED TO ANY GROUND PIN ON THE BOARD. PIN(S) D08, J08, P08 OR U08.

THE RED (PLUS) WIRE CAN BE CONNECTED TO ANY +5V PIN ON THE BOARD. PIN(S) D03, J03, P03 OR U03.

- SET THE SWITCH TO:

TECHNOLOGY	MULTI
LATCH	NONE
GATE REFERENCE	GROUND

- SEE THE DIAGNOSTIC SERVICE GUIDE -11.00.00-, 'GENERAL LOGIC PROBE SUMMARY' FOR INSTRUCTIONS ON HOW TO USE THE GENERAL LOGIC PROBE.

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MAP 0072-35

C C INTERMITTENT PROBLEM
T U
3 3 PAPER ONLY MAP
5 5
PAGE 36 OF 36

| 170
| THE POWER ON RESET IS CORRECT
| IN THE POWER SUPPLY, BUT IT IS
| NOT CORRECT ON THE BOARD. THE
| POR WIRE IS OPEN IN THE CABLE
| FROM THE POWER SUPPLY TO THE
| BOARD. THE POR WIRE NETWORK IS
| OPEN ON BOARD.
| - SEE THE CORRECT LOGICS FOR
| THE POWER SUPPLY AND THE
| BOARD WITH THE PROBLEM.
| - CORRECT THE PROBLEM.
| - VERIFY THE REPAIR.

| 171
| POWER/THERMAL MAY BE A PROBLEM.
| THE LINE TO A BOARD MAY BE OPEN.

- SEE LOGIC FOR SUSPECT BOARD.
- SEE LOGIC FOR SUSPECT POWER SUPPLY.
- PROBE POWER/THERMAL LINES FOR CORRECT LEVEL.

IS THE 'POWER/THERMAL WARNING INDICATOR' LINE UP?

Y N

| 172
| THE POWER/THERMAL WIRE IS OPEN
| IN THE CABLE FROM THE POWER
| SUPPLY TO THE BOARD, OR THE
| WIRE NETWORK IS OPEN ON THE
| BOARD.
| - SEE THE CORRECT LOGICS FOR
| THE POWER SUPPLY AND THE
| BOARD WITH THE PROBLEM.
| - CORRECT THE PROBLEM.
| - VERIFY THE REPAIR.

C C C MAP 0072-36
M N V
3 3
3 3 |

| 173
| THERE MAY BE A POWER SUPPLY
| PROBLEM.

| A VOLTAGE IS NOT PRESENT.
| POWER TO A BOARD MAY BE BAD.
| - SEE LOGIC FOR SUSPECT BOARD
| AND POWER SUPPLY.
| - TEST THE VOLTAGE LINES FOR
| CORRECT LEVEL(S).

| 174
| THE DC POWER SUPPLY OR
| REGULATOR CARD IS SUSPECT.
| GO TO MAP 1470, ENTRY POINT A.

| 175
| - SEE IF ALL THE MODULE AND
| DEVICE FANS ARE OPERATING.

ARE ALL THE MODULE AND DEVICE
FAN(S) OPERATING?

Y N

| 176
| - USE 'WILL NOT POWER UP AND
| THERMAL AND POR FAILURE LEDS
| ON' FOR FAILURE SYMPTOM.
| GO TO MAP 1470, ENTRY POINT A.

| 177
| - EXCHANGE THE THERMAL SWITCH.
| - VERIFY THE REPAIR.

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MAP 0072-36

C
V

PAPER ONLY MAP

PAGE 1 OF 2

ENTRY POINTS

FROM	ENTER THIS MAP		
-----	-----	-----	-----
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
-----	-----	-----	-----
0020	A	1	001
0021	A	1	001
0023	A	1	001
0024	A	1	001
0172	A	1	001
0173	A	1	001
0181	A	1	001

EXIT POINTS

EXIT THIS MAP		TO	
-----	-----	-----	-----
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
-----	-----	-----	-----
2	010	0171	A
2	011	0270	A
2	009	0370	A
2	008	0470	A
2	007	0570	A

001
(ENTRY POINT A)

NOTE

IF YOU WERE SENT TO THIS MAP FOR AN ENTRY POINT OTHER THAN 'ENTRY POINT A', GO TO MAP 0171 THE SAME ENTRY POINT

THIS IS A PAPER ONLY MAP. THERE IS NO ASSOCIATED MAP PROGRAM. (SEE DIAGNOSTIC SERVICE GUIDE 05.00.00).

SYSTEMS THAT DO NOT HAVE AN IPL DISKETTE INSTALLED WILL NOT HAVE IPL MAPS. THE MAINTENANCE DEVICE BEING USED TO IPL WILL HAVE THESE MAPS.

ARE YOU ATTEMPTING TO IPL FROM A 4966 DEVICE?

Y N

| 002

| ARE YOU ATTEMPTING TO IPL FROM A 4964 DEVICE?

| Y N

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2 2 2
A B C

C
1
MAP 0170 IPL MAP
PAPER ONLY MAP
PAGE 2 OF 2
003

ARE YOU ATTEMPTING TO IPL FROM A
4952/4/6 MODEL C OR 4965-001
DEVICE?

Y N

004
ARE YOU ATTEMPTING TO IPL FROM
A 4952/4/6 MODEL D, 4956-EXX OR
A 4965D DEVICE?

Y N

005
ARE YOU ATTEMPTING TO IPL
FROM A MCA 5 1/4 INCH
DISKETTE DEVICE?

Y N

006
GO TO MAP 0171
ENTRY POINT A OR
GO TO MAP 0370
ENTRY POINT A
SUPPLIED WITH THE
MAINTENANCE LOAD DEVICE.
YOU ARE ATTEMPTING TO IPL
FROM THE MAINTENANCE LOAD
DEVICE

007
GO TO MAP 0570,
ENTRY POINT A.

008
GO TO MAP 0470, ENTRY POINT A.

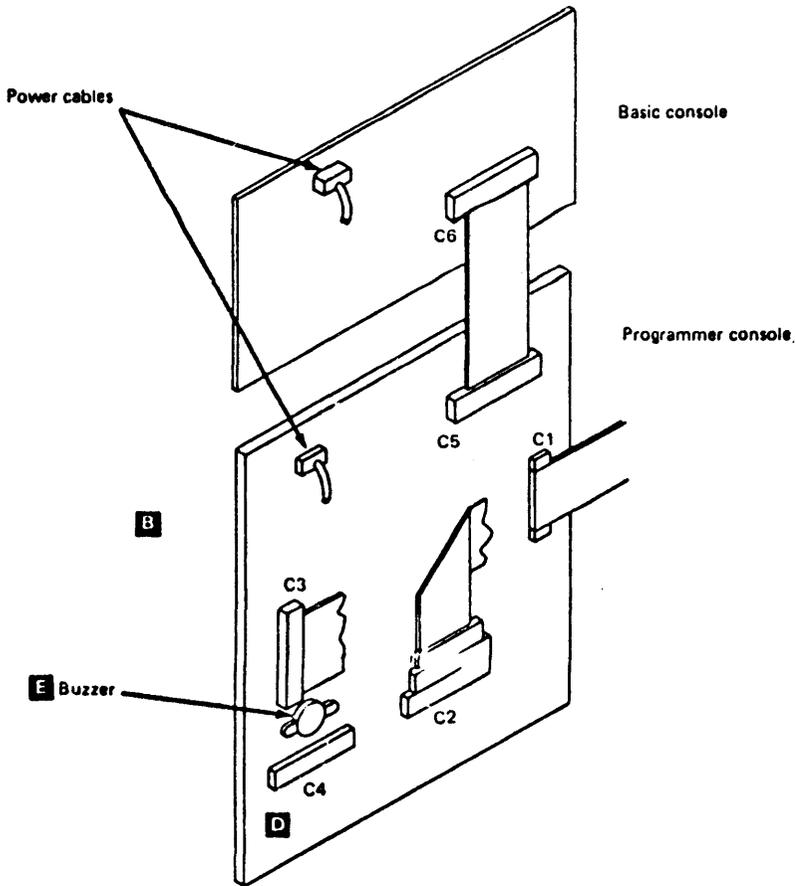
009
GO TO MAP 0370, ENTRY POINT A.

A B
1 1
MAP 0170-2
| |
| |
| |
| |
| |
| 010
| GO TO MAP 0171, ENTRY POINT A.
|
011
GO TO MAP 0270, ENTRY POINT A.

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MAP 0170-2



DATA	ADDR	ROS
JUMPERED PIN TO PIN		CONS. C3
FLT PT.	CONS. C2	CABLE
CONS. C1	JUMPERED PIN TO PIN X02 TO X02	
ALL Y CONN. JUMPERED PIN TO PIN Y02 TO Y02 TO Y02		
ALL Z CONN. JUMPERED PIN TO PIN Z02 TO Z02 TO Z02		

4955 PROCESSOR CABLES
VIEWED FROM CARD SIDE

W	W	CONS. C3	W
	X	CABLE	
X	X	CONS. C1	X
	Y	CABLE	
Y	Y	NOT USED	Y
	Z	CONS. C2	
Z	Z	NOT USED	Z

4953 PROCESSOR
CABLE LOCATIONS

4955
CABLE CONNECTIONS

CONSOLE	PROCESS
C1	DATA X
C2	ADDR WL
C3	ROS W

C5 JUMPER C6

C3 CABLE CONNECTION

BASIC CONSOLE	PROC CARD
4953	C6 W
4955	C6 ROS W

* C3 CABLE FROM
C6 TO PROCESSOR

NOTE: For user information see Prolog.

Sequence	Part	EC 374831	EC 374831B
0410AA	1 of 2	6826696	7-1-78
			3-16-79

Sequence		Part	EC 374831	EC 374831B			
0410AA	2 of 2	6826696	7-1-78	3-16-79			

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PAPER ONLY MAP

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ENTRY POINTS

FROM ENTER THIS MAP			
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
0020	A	1	001
2370	B	5	015
2370	C	7	020
3880	D	10	030
3880	E	14	043
3880	F	27	083
3880	LB	12	036
3880	LK	26	080
3880	SG	28	086

EXIT POINTS

EXIT THIS MAP TO			
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
1	002	1072	A
4	011	1470	A
20	058	1470	A
21	060	1470	A
21	062	1470	A

001
(ENTRY POINT A)

- SEE IF THE PROCESSING UNIT
INSTALLED IS A:
4952
4953
4955

IS THE PROCESSING UNIT ONE OF THE
ABOVE?

Y N

002
GO TO MAP 1072, ENTRY POINT A.

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PEC337369

A
1

CONSOLE TEST

MAP 1071-2

PAPER ONLY MAP

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003

- POWER OFF THE SYSTEM.
- SEE THE CONSOLE MLD PAXXX FOR LOCATION AND WIRING WHEN INSTRUCTED TO REMOVE CABLES.
- SEE THE PROCESSING UNIT THEORY DIAGRAMS, 'ROW AND COLUMN OPERATION' AND MLD PAXXX.
- USE THIS TABLE WITH CONSOLE MLD(S) PAXXX. IT IS PRINTED THROUGHOUT THE MAP FOR YOUR USE.
- INSPECT THE CABLE CONNECTOR(S) FOR CORRECT SEATING ON THE PROCESSING UNIT END.

- SEE PAXXX FOR CONSOLE AND CABLE LOCATIONS.

THE CHART INDICATES THE TOP CARD CONNECTOR PINS AND THE CABLE PINS CONNECTED TO THEM.

PROCESSING TOP CARD CONNECTOR PIN	S L T CABLE PIN
*22	B02
*33	B13
*02	D02
*13	D13

* W, X, Y, OR Z (PROCESSING TOP CARD CONNECTOR)

FOR 495X, SEE PAXXX.

ARE CABLES CORRECTLY SEATED?

Y N

004

- RESEAT THE CABLE(S).
- VERIFY THE REPAIR.

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PEC337369

MAP 1071-2

3
B

B

CONSOLE TEST

MAP 1071-3

2

PAPER ONLY MAP

|
|
|
|

PAGE 3 OF 39

005

- POWER ON THE SYSTEM.
- ENSURE AT LEAST ONE LED IS 'ON', ON THE BASIC CONSOLE.
- ENSURE AT LEAST ONE LED IS 'ON', ON THE OTHER CONSOLE.

EACH CONSOLE MUST HAVE AT LEAST ONE LED 'ON', TO ENSURE POWER IS GOOD TO THE CONSOLE BOARD(S).

DO YOU SUSPECT A POWER PROBLEM TO EITHER CONSOLE?

Y N

|

| 006

| GO TO PAGE 5, STEP 015,
| ENTRY POINT B.

|

007

- SEE THE CONSOLE MLD(S) PAXXX FOR THE LOCATION OF THE VOLTAGE PINS.

THE VOLTAGE PINS ARE CONNECTED TO A STANDARD VOLTAGE CONNECTOR, WHICH HAVE A HOUSING.

- REMOVE THE HOUSING AND USE A RELAY PROBE WITH A TEST LEAD TO MAKE CONNECTIONS.
- SET THE C.E. MULTIMETER TO THE CORRECT D C VOLT.
- MEASURE THE VOLTAGE BETWEEN +5V AND GROUND PINS ON EACH CONSOLE.

IS +5V DC MEASURED ON EACH CONSOLE?

Y N

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

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5 4

C D

MAP 1071-3

D
3

CONSOLE TEST

MAP 1071-4

PAPER ONLY MAP

PAGE 4 OF 39

008

- MEASURE +5V DC ON THE BASIC
CONSOLE.

IS +5V MEASURED ON THE BASIC
CONSOLE?

Y N

009

THE PROBLEM IS IN THE POWER
CABLE(S) TO THE CONSOLE OR THE
POWER SUPPLY.

- POWER OFF THE SYSTEM.
- SEE THE POWER ALDS AND
CONSOLE MLD(S) PAXX.
- DO A POINT TO POINT
RESISTANCE TEST OF THE POWER
CABLE TO THE CONSOLE ON THE
SYSTEM.

IF THE BASIC CONSOLE POWER
CABLE IS SUSPECTED, ENSURE YOU
TEST THE CORRECT POWER CABLE.

ARE THE POWER CABLE(S) TO THE
CONSOLE(S) O.K.?

Y N

010

- REPAIR OR EXCHANGE THE
FAILING POWER CABLE.
- VERIFY THE REPAIR.

011

GO TO MAP 1470, ENTRY POINT A.

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MAP 1071-4

5
E

3 E

CONSOLE TEST

MAP 1071-5

3.4

PAPER ONLY MAP

PAGE 5 OF 39

012

THERE IS +5V TO THE BASIC CONSOLE, BUT NOT TO THE OTHER CONSOLE.

- POWER OFF THE SYSTEM.
- DO A POINT TO POINT RESISTANCE TEST OF THE VOLTAGE CABLE FROM THE BASIC TO THE OTHER CONSOLE.

IF THE BASIC CONSOLE CABLE IS SUSPECTED, ENSURE YOU TEST THE CORRECT POWER CABLE.

IS THE POWER CABLE O.K.?

Y N

013

- REPAIR OR EXCHANGE THE FAILING POWER CABLE.
- VERIFY THE REPAIR.

014

- REPAIR OR EXCHANGE THE BASIC CONSOLE BOARD.

15

ENTRY POINT B)

IF YOU WANT TO TEST THE KEY(S), ED(S) OR SWITCHES ON THE BASIC CONSOLE, THEY ARE TESTED OUT SEPARATELY IN THIS MAP.

DO YOU WANT TO VERIFY ANY PART OF THE BASIC CONSOLE?

N

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ECA40740

PEC337369

6

G

MAP 1071-5

6
5

CONSOLE TEST

MAP 1071-6

PAPER ONLY MAP

PAGE 6 OF 39

016

'AUDIBLE DEVICE' - THE UNIT ON
THE CONSOLE THAT IS SOUNDED WHEN
A KEY IS PRESSED.

DO YOU WANT TO VERIFY ANY LED OR
THE 'AUDIBLE DEVICE'?

Y N

017

- SEE IF YOU WANT TO VERIFY
PROGRAMMER CONSOLE KEYS.

DO YOU WANT TO VERIFY ANY
PROGRAMMER CONSOLE KEY(S)?

Y N

018

- SEE IF YOU WANT TO VERIFY
THE C E CONSOLE.

DO YOU WANT TO VERIFY THE C E
CONSOLE?

Y N

019

GO TO PAGE 27,
STEP 083,
ENTRY POINT F.

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MAP 1071-6

0 9 7

H J K

K
6

CONSOLE TEST

MAP 1071-7

PAPER ONLY MAP

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020
(ENTRY POINT C)

TO VERIFY A KEY, USE PIN NUMBER
INDICATED IN TABLE ON CABLE
REMOVED FROM PROCESSOR UNIT END.

CONSOLE KEY	ROW *	COL **	FROM C3	TO PIN**
AKR	C	6	B04	C2D13
RESTART	C	7	B04	C1D11
CIAR	B	3	B03	C2D10
INTERRUPT	B	1	B03	C1D10
DATA BUFFER	A	1	B10	C1D10
0	A	8	B10	C3B08
1	B	8	B03	C3B08
2	C	8	B04	C3B08
3	D	8	B05	C3B08
4	A	9	B10	C3B12
5	B	9	B03	C3B12
6	C	9	B04	C3B12
7	D	9	B05	C3B12
8	A	10	B10	C3B13
9	B	10	B03	C3B13
A	C	10	B04	C3B13
B	D	10	B05	C3B13
C	A	11	B10	C3D02
D	B	11	B03	C3D02
E	C	11	B04	C3D02
F	D	11	B05	C3D02
IAR	B	6	B03	C2D13
INSTRUCT STP	B	7	B03	C1D11
LEVEL 0	D	2	B05	C2B13

CONSOLE KEY	ROW *	COL **	FROM C3	TO PIN**
LEVEL 1	C	2	B04	C2B13
LEVEL 2	B	2	B03	C2B13
LEVEL 3	A	2	B10	C2B13
LOAD	D	0	B05	C3D03
LSR	D	6	B05	C2D13
MAIN STORAGE	A	6	B10	C2D13
OP REGISTER	C	3	B04	C2D10
PSW	D	3	B05	C2D10
R0	D	4	B05	C2D11
R1	C	4	B04	C2D11
R2	B	4	B03	C2D11
R3	A	4	B10	C2D11
R4	D	5	B05	C2D12
R5	C	5	B04	C2D12
R6	B	5	B03	C2D12
R7	A	5	B10	C2D12
RESET	C	0	B04	C3D03
SAR	A	3	B10	C2D10
NOT USED	B	0	B03	C3D03
START	C	1	B04	C1D10
STOP	D	1	B05	C1D10
ADDRESS STOP	A	7	B10	C1D11
STP ON ERROR	D	7	B05	C1D11
STORE	A	0	B10	C3D03

IS THE ACTION COMPLETE?

Y N

021

- COMPLETE THE ACTION AND
CONTINUE ON THE YES LEG.

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ECA40740 PEC337369

MAP 1071-7

8
L

L
7

CONSOLE TEST

MAP 1071-8

PAPER ONLY MAP

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022

- SEE THE PROCESSING UNIT THEORY DIAGRAMS, 'ROW AND COLUMN OPERATION', FOR THE CONSOLE WIRING MATRIX.
- DISCONNECT THE CABLE INDICATED ABOVE AT THE PROCESSING CARD END.
- SEE PAXXX FOR CONSOLE AND CABLE LOCATIONS.

IS THE ACTION COMPLETE?

Y N

023

- COMPLETE THE ACTION AND CONTINUE ON THE YES LEG.

024

- SET THE C.E. MULTIMETER TO THE 'X1 RESISTANCE'.

ON THE CABLE REMOVED FROM THE PROCESSING CARD END FIND THE PINS INDICATED IN THE TABLE.

- MEASURE THE RESISTANCE BETWEEN THE PINS IN THE 'FROM' AND THE 'TO' COLUMN OF THE KEY TO BE TESTED.

THE C. E. MULTIMETER WILL INDICATE AN OPEN CIRCUIT.

- MEASURE FOR A SHORT WHEN THE KEY IS PRESSED.
- REPEAT FOR ALL THE SUSPECT KEY(S).

DID THE KEY(S) TEST O.K.?

Y N

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| |

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9 9

M N

MAP 1071-8

J M N
6 8 8

CONSOLE TEST

MAP 1071-9

PAPER ONLY MAP

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025

THE PROBLEM IS IN THE CABLE
OR THE CONSOLE.

- DO A POINT TO POINT
RESISTANCE TEST OF THE
SUSPECT CABLES.

DO THE CABLE(S) TEST OUT
CORRECTLY?

Y N

026

- REPAIR OR EXCHANGE THE
CABLE.

027

- REPAIR OR EXCHANGE THE
CONSOLE.

028

GO TO PAGE 27, STEP 083,
ENTRY POINT F.

029

GO TO PAGE 7, STEP 020,
ENTRY POINT C.

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MAP 1071-9

H
6

CONSOLE TEST

MAP 1071-10

PAPER ONLY MAP

PAGE 10 OF 39

030
(ENTRY POINT D)

- SEE THE PINS FOR THE AUDIBLE DEVICE OR THE LED TO BE VERIFIED PER THE CHART.
- POWER OFF THE SYSTEM.
- SEE THE CONSOLE MLD(S) PAXXX FOR +5V ON BOARD.

LED(S) ON THE CONSOLE	GROUND PINS	
	OTHER CONSOL	BASIC CONSOLE
AUDIBLE DEVICE	C3B11	
CHECK	C3D13	
CHECK RESTART	C3B07	
DATA BIT 00	C1B02	
DATA BIT 01	C1B03	
DATA BIT 02	C1B04	
DATA BIT 03	C1B05	
DATA BIT 04	C1D06	
DATA BIT 05	C1B07	
DATA BIT 06	C1B08	
DATA BIT 07	C1B09	
DATA BIT 08	C1B10	
DATA BIT 09	C1D07	
DATA BIT 10	C1B12	
DATA BIT 11	C1B13	
DATA BIT 12	C1D02	

LED(S) ON THE CONSOLE	GROUND PINS	
	OTHER CONSOL	BASIC CONSOLE
DATA BIT 13	C1D09	
DATA BIT 14	C1D04	
DATA BIT 15	C1D05	
INSTRUCTION STEP	C3D11	
LEVEL 00	C2B09	
LEVEL 01	C2B10	
LEVEL 02	C2B11	
LEVEL 03	C2B12	
LOAD	C3D06	C6D06
POWER ON (NOT+) OR DOT	SIDE	
RUN	C3D04	C6D04
STOP	C3D10	
STOP ON ADDRESS	C3D12	
STOP ON ERROR	C3B06	
WAIT LED	C3D05	C6D05

IS THE PROBLEM 'LED ON' OR
AUDIBLE DEVICE 'SOUNDING'?

Y N

031
GO TO PAGE 12, STEP 036,
ENTRY POINT LB.

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MAP 1071-10

1
1
P

P CONSOLE TEST

1 PAPER ONLY MAP
0

| PAGE 11 OF 39
|
|

032

- DISCONNECT THE CABLE(S) C1, C2 AND C3 AT THE PROCESSING CARD END.
- CONNECT A TEST LEAD TO ANY D08 GROUND PIN. (FRAME GROUND CAN BE USED INSTEAD OF D08 PIN).
- TOUCH THE TEST LEAD TO ONE OF THE CABLE LOGIC GROUND PINS (D08).
- POWER ON THE SYSTEM.

ALL LEDS OFF, AUDIBLE DEVICE SILENT, AND 'POWER ON' LED ON?

Y N

| 033

| THERE IS A LED ON OR THE
| AUDIBLE DEVICE IS SOUNDING.

- POWER OFF THE SYSTEM.
- REMOVE CABLE(S) C1, C2 AND C3 ON THE CONSOLE END.
- TOUCH TEST LEAD TO ONE OF THE D08 PINS ON THE CONSOLE.
- POWER ON THE SYSTEM.

| ALL LEDS OFF, AUDIBLE DEVICE
| SILENT, AND 'POWER ON' LED ON?

| Y N

| | 034

| | THERE IS A LED ON OR THE
| | AUDIBLE DEVICE IS SOUNDING.
| | THE CONSOLE BOARD FAILED.
| | - EXCHANGE THE CONSOLE BOARD.

| 035

| ONE OF THE CABLE(S) C1, C2 OR
| C3 FAILED.

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S CONSOLE TEST
1
2 PAPER ONLY MAP
| PAGE 13 OF 39
|
|

037
PROBLEM IS IN THE AUDIBLE DEVICE,
LED(S) OR CABLE.
USE SAME GROUND LEAD TO TEST OUT
SUSPECT LED OR AUDIBLE DEVICE ON
CONSOLE BOARD ITSELF.

LED IS GROUNDED ON PIN SIDE
MARKED WITH A DOT, OR ON THE
MINUS SIDE OF LED.
PLUS SIDE OF SOME LEDS ARE MARKED
+ ON CONSOLE BOARD.
IF SUSPECT LED PIN IS NOT MARKED
ON CONSOLE BOARD, THE DOT ON ALL
LEDS IS MINUS PIN.
LED(S) TESTED WILL GO ON.
REPEAT FOR ALL SUSPECT LEDS.

AUDIBLE DEVICE IS MARKED + AND -.
GROUND MINUS SIDE OF AUDIBLE
DEVICE.
AUDIBLE DEVICE WILL SOUND.

DO LED(S) OR AUDIBLE DEVICE TEST
OUT O.K.?

Y N

| 038
| - EXCHANGE THE FAILING LED(S),
| OR THE FAILING AUDIBLE
| DEVICE, OR THE FAILING
| CONSOLE BOARD.
|

039
PROBLEM IS IN THE CABLE.

- DO A POINT TO POINT TEST OF
SUSPECT CABLE(S).

DO CABLE(S) TEST CORRECTLY?

Y N

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| |
| |
| |

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T U

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F R T U CONSOLE TEST

MAP 1071-14

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2 3 3 PAPER ONLY MAP

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| | | | PAGE 14 OF 39

| | | |

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| | | 040

| | | - REPAIR OR EXCHANGE CABLE.

| | |

| | 041

| | - REPAIR OR EXCHANGE CONSOLE.

| |

| 042

| GO TO PAGE 27, STEP 083,

| ENTRY POINT F.

|

043

(ENTRY POINT E)

- VERIFY THE CUSTOMER PROGRAMMER
CONSOLE IS INSTALLED AND ITS
CABLE(S) CONNECTED TO THE
SYSTEM.

IS THE PROGRAMMER CONSOLE
INSTALLED AND CONNECTED?

Y N

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MAP 1071-14

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6 5

Y W

W CONSOLE TEST
1
4 PAPER ONLY MAP

| PAGE 15 OF 39
|
|

044

THE MODE SWICTH CANNOT BE TESTED
UNLESS THE MAINTENANCE CONSOLE IS
INSTALLED.

IF THE MAINTENANCE CONSOLE TOOL
IS INSTALLED ON THE CUSTOMER
SYSTEM.

THE CABLE(S) TESTED OUT ARE PART
OF THE MAINTENANCE CONSOLE TOOL.

IF THE TEST INDICATES A GOOD
PART, THE CABLE(S) NORMALLY USED
BY THE BASIC CONSOLE ARE NOT
CONNECTED AND WILL HAVE TO BE
VERIFIED WITH THE CSR MULTIMETER.

REMEMBER, THE CABLE(S) FOR THE
BASIC CONSOLE ARE NOT PART OF THE
TEST FOR THE SWITCHES, LEDS OR
SWITCHES IN THIS PART OF MAP IF
THE SYSTEM DOES NOT HAVE A
PROGRAMMER CONSOLE, OR THE
MAINTENANCE CONSOLE IS USED.

CONTINUE ON THE YES LEG.

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MAP 1071-15

V
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045
FIND SUSPECT KEY, LED OR SWITCH
TO BE VERIFIED IN TABLE BELOW.
NOTE PINS FOR EACH, IN TABLE
BELOW.
TEST PROCEDURE AT END OF TABLE.

- SEE PAXXX FOR CONSOLE AND CABLE
LOCATIONS.

```

+-----+
|SWITCHES AND |FROM |TO   | C E |
|LED(S) ON    |PIN  |PIN  | METER|
|BASIC CONSOLE|      |      | READ |
|-----|-----|-----|-----|
|AUTO IPL MODE|C3D08|C3D07|SHORT|
|DIAGNOSTIC   |C3D08|C3D09|SHORT|
|GROUND       |      |C3D08|      |
|LOAD KEY     |C3D03|C3B05|SHORT|
|LOAD LED     |      |C3D06|      |
|PRIMARY      |C3D08|C3B09|OPEN  |
|ALTERNATE    |C3D08|C3B09|SHORT|
|RUN LED      |      |C3D04|      |
|WAIT LED     |      |C3D05|      |
+-----+

```

- POWER OFF THE SYSTEM.
- DISCONNECT C3 CABLE AT
PROCESSING CARD END.
- SEE THE CONSOLE MLD(S) PAXXX
FOR LOCATION.

DO YOU WANT TO VERIFY THE LOAD
KEY?

Y N

|
| 046
| DO YOU WANT TO VERIFY ANY OF
| THE LEDS?

| Y N

2 1 1
5 9 7
X Y Z

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Z
1
6
CONSOLE TEST
PAPER ONLY MAP

|
|
|
PAGE 17 OF 39

047
DO YOU WANT TO VERIFY A SWITCH?
Y N

|
| 048
| GO TO PAGE 27, STEP 083.
| ENTRY POINT F.

049
NOTE - WHEN TESTING A SWITCH,
TEST EACH POSITION OF THE SWITCH.

- SET THE C.E. MULTIMETER TO X1 RESISTANCE.
- SEE THE PINS IN THE TABLE ABOVE.
- MEASURE THE RESISTANCE BETWEEN 'FROM' PIN AND 'TO' PIN.
- OPERATE THE SWITCH.

THE RESISTANCE READING IS IN 'C. E. MULTIMETER READING' COLUMN.

- OPERATE THE SWITCH TO ANY OTHER POSITION.

THIS WILL CHANGE THE C. E. MULTIMETER READING AND VERIFY THE OPERATION OF THE SWITCH.

DID THE SWITCH OPERATE CORRECTLY?

Y N
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| |
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1 1
9 8
A A
A B

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NOTE - WHEN TESTING A SWITCH,
TEST EACH POSITION OF THE SWITCH.

- SET THE C.E. MULTIMETER TO X1 RESISTANCE.
- TEST THE SUSPECT SWITCH ON THE BASIC CONSOLE.
- USE A TEST LEAD TO CONNECT DIRECTLY TO EACH SWITCH TERMINAL.
- MEASURE THE RESISTANCE BETWEEN EACH SWITCH TERMINAL.
- OPERATE THE SWITCH.

THE RESISTANCE READING IS IN 'C. E. MULTIMETER READING' COLUMN.

- OPERATE THE SWITCH TO ANY OTHER POSITION.

THIS WILL CHANGE THE C. E. MULTIMETER READING AND VERIFY THE OPERATION OF THE SWITCH.

DID THE SWITCH OPERATE CORRECTLY?
Y N

| 051
| THE SWITCH IS BAD.

- REPAIR OR EXCHANGE THE SWITCH.
- EXCHANGE THE CONSOLE IF NO REPAIR.

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MAP 1071-18

Y A A CONSOLE TEST
I A C
6 1 1 PAPER ONLY MAP
7 8
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052
THE PROBLEM IS IN THE CABLE
OR THE CONSOLE(S).

- DO POINT TO POINT TEST OF
SUSPECT CABLE(S).

DO THE CABLE(S) TEST
CORRECTLY?

Y N

053
REPAIR OR EXCHANGE CABLE.

054
- REPAIR OR EXCHANGE THE
BASIC CONSOLE.

IF NO REPAIR, THE OTHER
CONSOLE BOARD HAS A BAD
NETWORK ON IT.

- EXCHANGE THE OTHER CONSOLE
BOARD.
- VERIFY THE REPAIR.

055
GO TO PAGE 27, STEP 083,
ENTRY POINT F.

056

DO YOU WANT TO TEST A LED THAT
WILL NOT COME ON?

Y N

2 2
3 0
A A
D E

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A
E
1
9

CONSOLE TEST

MAP 1071-20

PAPER ONLY MAP

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057
THE 'POWER ON RESET' LINE IS
SUSPECT.

- SEE THE NOTE --->
- POWER ON THE SYSTEM.
- PROBE THE 'POWER ON RESET' PIN
 - S05 - AT THE PROCESSING UNIT CARD POSITION(S).
- SEE CORRECT LOGIC, AXXXX.

LINE NAME	PIN
POWER ON RESET	S05

- USE LOGIC PROBE 2 OR SIMILAR.
- SET THE TECHNOLOGY SWITCH TO 'MULTI'.
- SET LATCH SWITCH TO 'NONE'.
- SET GATE REF SWITCH TO 'GND'.
- PLUG RED (+) WIRE OF POWER CABLE ON +5 V.
- PLUG BLACK WIRE OF CABLE ON GROUND PIN.

GROUND AND +5 VOLTS IS ON ANY I/O POSITION OF THE 495X BOARD.

PROBE INDICATOR	LOGIC PROBED	MEANING	GROUND	+5V
UP	DOWN		D08	D03
			J08	J03
			P08	P03
0	0	*	U08	U03
1	0	UP		
0	1	DOWN		
1	1	PULSING		

* SIGNAL VOLTAGE IS NOT CORRECT OR NO VOLTAGE.

THE LOGIC PROBE 2 AND ITS USE IS IN MANUAL 'SY27-0127-X' OR MAP 0010, SECTION 11.00.00.

IS THE LINE UP?

Y N

058
GO TO MAP 1470, ENTRY POINT A.

2
1
A
F

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MAP 1071-20

A
F
2
0

CONSOLE TEST

MAP 1071-21

PAPER ONLY MAP

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|
|

059

- POWER OFF THE SYSTEM.

OBSERVE THE LOGIC PROBE WHEN THE PROCESSING UNIT POWER IS TURNED ON. THE LEVEL SHOULD BE DOWN FOR ABOUT A SECOND, THEN GO UP AND STAY UP.

- POWER ON THE SYSTEM.

DID THE PROBE INDICATOR GO DOWN?

Y N

|

| 060

| GO TO MAP 1470, ENTRY POINT A.

|

061

- SEE THE LOGIC PROBE INDICATOR.
- SEE IF THE LOGIC PROBE IS UP AFTER ONE (1) SECOND.

AFTER THE PROBE INDICATOR WENT DOWN, DID IT GO UP?

Y N

|

| 062

| GO TO MAP 1470, ENTRY POINT A.

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2
A
G

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MAP 1071-21

A
G
2
1

CONSOLE TEST
PAPER ONLY MAP
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MAP 1071-22

063
THE PROBLEM IS IN THE CABLE OR
THE PROGRAMMER CONSOLE BOARD.

- SET THE MULTIMETER TO THE X1 RESISTANCE.
- DO A POINT TO POINT TEST OF CABLE UNSEATED FROM C6.
- MEASURE FOR AN OPEN OR SHORT IN THE CABLE, PIN TO PIN.

DOES THE CABLE TEST CORRECT?

Y N

064
- REPAIR OR EXCHANGE THE CABLE.

065
- EXCHANGE THE PROGRAMMER CONSOLE BOARD IF INSTALLED.

DOES THE LED TEST CORRECT?

Y N

066
PROCESSING UNIT CARD IS
SUSPECT.
GO TO MAP 2070, ENTRY POINT PC.

067
- SEE IF THE PROBLEM IS REPAIRED.

IS THE PROBLEM REPAIRED?

Y N

068
PROCESSING UNIT CARD IS
SUSPECT.
GO TO MAP 2070, ENTRY POINT PC.

069
- VERIFY THE REPAIR.

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MAP 1071-22

A
L
2
5

CONSOLE TEST

MAP 1071-26

PAPER ONLY MAP

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079

- PRESS AND HOLD LOAD KEY.
- TEST FOR A SHORT BETWEEN C3B05 AND C3D03.

DID THE LOAD KEY TEST AS A SHORT?

Y N

080

(ENTRY POINT LK)

THE PROBLEM IS IN THE CABLE OR THE LOAD KEY.

- DO A POINT TO POINT TEST OF THE SUSPECT CABLE(S).

DO THE CABLE(S) TEST CORRECTLY?

Y N

081

- REPAIR OR EXCHANGE THE CABLE.

082

- REPAIR OR EXCHANGE THE LOAD KEY.

IF NO REPAIR, THE CONSOLE BOARD IS BAD.

- VERIFY THE REPAIR.

2
7
A
M

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PN1635176

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PEC337369

MAP 1071-26

A CONSOLE TEST
M
2 PAPER ONLY MAP
6
PAGE 27 OF 39

|
|
083
(ENTRY POINT F)

THE MAP AND STEP THAT SENT YOU
HERE MAY HAVE INSTRUCTED YOU TO
VERIFY SOME OTHER PART OF A
CONSOLE. IF MORE TESTING ON
CONSOLE(S) IS NEEDED BY THE MAP,
SUCH AS OTHER KEY(S), LED(S) OR
SWITCHES ON THE PROGRAMMER
CONSOLE, C.E. MAINTENANCE
CONSOLE, OR BASIC CONSOLE, DO IT
NOW.

IS MORE TESTING NEEDED BY MAP
THAT SENT YOU HERE?

Y N

|
| 084
| IF YOU SUSPECT A PROBLEM IN THE
| CONSOLE, SUCH AS:
| THE CONSTANT SOUNDING OF THE
| 'AUDIBLE DEVICE', OR A CUSTOMER
| PROBLEM WITH THE CONSOLE THAT
| IS NOT REPAIRED AT THIS POINT
| IN THIS MAP, OR THERE MAY BE A
| SHORT CIRCUIT IN THE CONSOLE,
| THE FOLLOWING IS A TEST FOR A
| SHORT CIRCUIT IN THE CONSOLE
| WIRING.

|
| DO YOU WANT TO TEST THE ROW,
| COLUMN OR LED(S) WIRING FOR A
| SHORT CIRCUIT?

| Y N

3 2 2
9 8 8
A A A
N P Q

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A .
W
3
0
|
|
089
(ENTRY POINT VG)
PAGE 31 OF 39

MAP 1071-31

TABLE FOUR (4)

TABLE 4 TO THE RIGHT, IS A LIST OF PINS FOR A ROW AND COLUMN TO LED(S) TEST FOR A SHORT.

LED(S) TO ROW(S) AND COLUMN(S)

THE LED ON BASIC CONSOLE	TEST LEAD ON	TEST ROW	TEST COLUMNS
LOAD	C3D06	A TO D	00 TO 11
RUN	C3D04	A TO D	00 TO 11
WAIT	C3D05	A TO D	00 TO 11
	FRAME	ABOVE	LED(S)

DO YOU WANT TO TEST LED(S) TO ROW
TO COLUMN SHORT CIRCUIT?

Y N

| 090
| ANY CABLE OR COVER REMOVED IN
| THIS MAP MUST BE RETURNED TO
| ORIGINAL CONDITION.

| - RETURN TO MAP AND STEP THAT
| SENT YOU HERE.

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MAP 1071-31

3
2
A
X

- SEE TABLE FOUR (4).
- SET THE C.E. MULTIMETER TO X1 RESISTANCE.
- USE THE PINS INDICATED IN THE TABLE.
- PUT PLUS TEST LEAD ON PINS INDICATED IN 'TEST LEAD ON' COLUMN.

TABLE FOUR (4)

LED TO ROWS AND COLUMNS

THIS IS REFERENCE POINT FOR MEASURING FOR A SHORT CIRCUIT.

- PUT MINUS TEST LEAD ON PINS INDICATED BY TEST ROW PIN AND TEST COLUMN PIN.
- START AT THE TOP OF THE TABLE AND TEST THE COLUMNS AND ROWS INDICATED, IN SEQUENCE.

LED TO TEST	TEST ON	TEST ROW PIN	TEST COLUMN PIN
LOAD	C3D06	A	C3B10
RUN	C3D04	B	C3B03
WAIT	C3D05	C	C3B04
		D	C3B05
			00
			01
			02
			03
			04
			05
			06
			07
			08
			09
			10
			11

THE C. E. MULTIMETER WILL INDICATE AN OPEN CIRCUIT. DO THIS FOR ALL 'TEST LEAD ON' PINS.

DOES C.E. MULTIMETER INDICATE AN OPEN CIRCUIT FOR THE TEST?

Y N
|
| 092
| THE PROBLEM IS IN THE CABLE OR
| THE CONSOLE.

- DO A POINT TO POINT RESISTANCE TEST OF THE SUSPECT CABLE.

DOES THE CABLE TEST OUT CORRECTLY?

Y N
| |
| |
| |

3 3 3
3 3 3
A A B
Y Z A

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MAP 1071-32

A A B CONSOLE TEST
Y Z A
3 3 3 PAPER ONLY MAP
2 2 2
PAGE 33 OF 39

| | |
| | |
| | 093
| | - REPAIR OR EXCHANGE THE
| | CABLE.

| |
| 094
| - EXCHANGE THE CONSOLE BOARD.

095
ANY CABLE OR COVER REMOVED IN
THIS MAP MUST BE RETURNED TO
ORIGINAL CONDITION.

- RETURN TO MAP AND STEP THAT
SENT YOU HERE.

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A
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3
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CONSOLE TEST
PAPER ONLY MAP
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MAP 1071-34

096

- SEE TABLE THREE (3).
- SET THE C.E. MULTIMETER TO X1 RESISTANCE.
- USE THE PINS INDICATED IN THE TABLE.
- PUT PLUS TEST LEAD ON PINS INDICATED IN 'TEST LEAD ON' COLUMN.

THIS IS REFERENCE POINT FOR MEASURING FOR A SHORT CIRCUIT.

- PUT MINUS TEST LEAD ON PINS INDICATED BY TEST COLUMN PIN.
- START AT THE TOP OF THE TABLE AND TEST THE COLUMNS INDICATED IN SEQUENCE.

THE C. E. MULTIMETER WILL INDICATE AN OPEN CIRCUIT. DO THIS FOR ALL 'TEST LEAD ON' PINS.

DOES C.E. MULTIMETER INDICATE AN OPEN CIRCUIT FOR THE TEST?

Y N

097

THE PROBLEM IS IN THE CABLE OR THE CONSOLE.
DO A POINT TO POINT RESISTANCE TEST OF THE SUSPECT CABLE.

DOES THE CABLE TEST OUT CORRECTLY?

Y N

3 3 3
5 5 5
B B B
B C D

TABLE THREE (3)

ROW TO COLUMN TEST

REFERENCE COLUMN OR ROW	TEST LEAD ON	TEST COLUMN	TEST COLUMN PIN
ROW A	C3B10	00	C3D03
ROW B	C3B03	01	C1D10
ROW C	C3B04	02	C2B13
ROW D	C3B05	03	C2D10
		04	C2D11
		05	C2D12
		06	C2D13
		07	C1D11
		08	C3B08
		09	C3B12
		10	C3B13
		11	C3D02
GROUND	C3D08		
GROUND	FRAME		

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MAP 1071-34

B B B
B C D
3 3 3
4 4 4

CONSOLE TEST

MAP 1071-35

PAPER ONLY MAP

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| | |
| | |
| | 098
| | - REPAIR OR EXCHANGE THE
| | CABLE.
| |
| 099
| - EXCHANGE THE CONSOLE BOARD.
|

100
GO TO PAGE 31, STEP 089,
ENTRY POINT VG.

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MAP 1071-35

A
T
2
9

CONSOLE TEST

MAP 1071-36

PAPER ONLY MAP

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|
|
101

- SEE TABLE TWO (2).
- SET THE C.E. MULTIMETER TO X1 RESISTANCE.
- USE THE PINS INDICATED IN THE TABLE.
- PUT PLUS TEST LEAD ON PINS INDICATED IN 'TEST LEAD ON' COLUMN.

THIS IS REFERENCE POINT FOR MEASURING FOR A SHORT CIRCUIT.

- PUT MINUS TEST LEAD ON PINS INDICATED BY TEST COLUMN(S).
- START AT THE TOP OF THE TABLE AND TEST THE COLUMNS INDICATED IN SEQUENCE.

COLUMN 00 IS C3D03 OF CABLE DISCONNECTED FROM PROCESSING UNIT CARD.

COLUMN 01 IS C3D10 OF CABLE DISCONNECTED FROM PROCESSING UNIT CARD.

THE C. E. MULTIMETER WILL INDICATE AN OPEN CIRCUIT.

DO THIS FOR ALL 'TEST LEAD ON' PINS.

DOES C.E. MULTIMETER INDICATE AN OPEN CIRCUIT FOR THE TEST?

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

3 3
7 7
B B
E F

TABLE TWO (2)

COLUMN TO COLUMN

REFERENCE COLUMN OR ROW	TEST LEAD ON	TEST COLUMN(S)
COLUMN 00	C3D03	01 TO 11
COLUMN 01	C1D10	02 TO 11
COLUMN 02	C2B13	03 TO 11
COLUMN 03	C2D10	04 TO 11
COLUMN 04	C2D11	05 TO 11
COLUMN 05	C2D12	06 TO 11
COLUMN 06	C2D13	07 TO 11
COLUMN 07	C1D11	08 TO 11
COLUMN 08	C3B08	09 TO 11
COLUMN 09	C3B12	10 TO 11
COLUMN 10	C3B13	11 ONLY
COLUMN 11	C3D02	REFERENCE

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MAP 1071-36

B B CONSOLE TEST
E F
3 3 PAPER ONLY MAP
6 6
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MAP 1071-37

| |
| |
| 102
| THE PROBLEM IS IN THE CABLE OR
| THE CONSOLE.
| DO A POINT TO POINT RESISTANCE
| TEST OF THE SUSPECT CABLE.

| DOES THE CABLE TEST OUT
| CORRECTLY?
| Y N

| | 103
| | - REPAIR OR EXCHANGE THE
| | CABLE.

| 104
| - EXCHANGE THE CONSOLE BOARD.

105
GO TO PAGE 30, STEP 088,
ENTRY POINT UG.

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MAP 1071-37

A
R
2
8

|
|
106

- SEE TABLE ONE (1).
- SET THE C.E. MULTIMETER TO X1 RESISTANCE.
- USE THE PINS INDICATED IN THE TABLE.
- PUT PLUS TEST LEAD ON PINS INDICATED IN 'TEST LEAD ON' COLUMN.

THIS IS REFERENCE POINT FOR MEASURING FOR A SHORT CIRCUIT.

- PUT MINUS TEST LEAD ON PINS INDICATED BY TEST ROW(S).
- START AT THE TOP OF THE TABLE AND TEST THE ROWS INDICATED IN SEQUENCE.

ROW A IS C3B10 OF CABLE DISCONNECTED FROM PROCESSING UNIT CARD.

ROW B IS C3B03 OF CABLE DISCONNECTED FROM PROCESSING UNIT CARD.

THE C. E. MULTIMETER WILL INDICATE AN OPEN CIRCUIT.

DO THIS FOR ALL 'TEST LEAD ON' PINS.

DOES C.E. MULTIMETER INDICATE AN OPEN CIRCUIT FOR THE TEST?

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

3 3
9 9
B B
G H

TABLE ONE (1)

ROW TO ROW

REFERENCE COLUMN OR ROW	TEST LEAD ON	TEST ROW(S)
ROW A	C3B10	B TO D
ROW B	C3B03	C TO D
ROW C	C3B04	D ONLY
ROW D	C3B05	REFERENCE

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A B B CONSOLE TEST
N G H
2 3 3 PAPER ONLY MAP
7 8 8
PAGE 39 OF 39

| | |
| | |
| | 107
| | THE PROBLEM IS IN THE CABLE
| | OR THE CONSOLE.
| | DO A POINT TO POINT
| | RESISTANCE TEST OF THE
| | SUSPECT CABLE.

| | DOES THE CABLE TEST OUT
| | CORRECTLY?
| | Y N

| | | 108
| | | - REPAIR OR EXCHANGE THE
| | | CABLE.

| | 109
| | - EXCHANGE THE CONSOLE BOARD.

| 110
| GO TO PAGE 29, STEP 087,
| ENTRY POINT TG.

| 111
| GO TO PAGE 5, STEP 015,
| ENTRY POINT B.

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B
1

002

- SEE THE CONSOLE MLD PA2XX FOR LOCATION AND WIRING WHEN INSTRUCTED TO REMOVE A CABLE.
- SEE THE PROCESSING UNIT THEORY DIAGRAMS, 'ROW AND COLUMN OPERATION' FOR AN UNDERSTANDING OF THE CONSOLE.
- USE THE CHART WITH CONSOLE MLDS PA2XX.
- POWER OFF THE PROCESSING UNIT.
- INSPECT THE CABLE CONNECTOR FOR CORRECT SEATING ON THE PROCESSING UNIT CARD END.

PROCESSING UNIT CABLE LOCATION

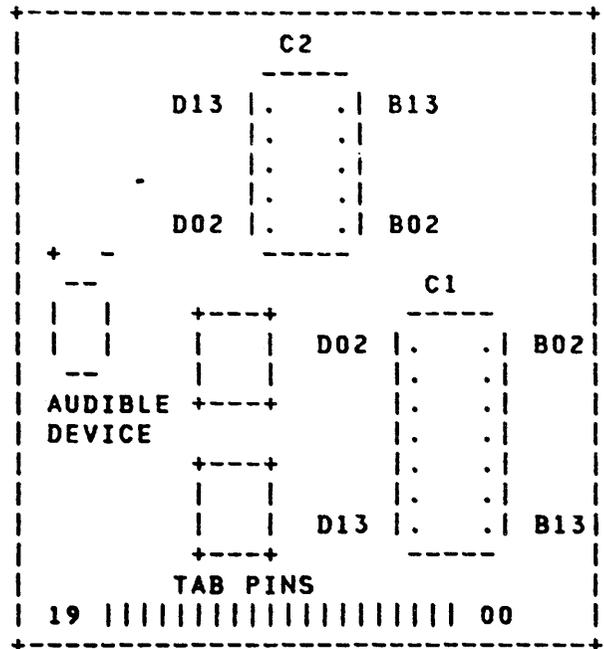
PROCESSING UNIT CARD CONNECTOR	CABLE	CONNECTOR ON THE CONSOLE
W	C1	C1
TO BASIC CONSOLE - C2 TO C6		

CONN END OF CABLE ()=TOP CARD PIN

(W02) D02 | | B02 (X22)

(W13) D13 | | B13 (X33)

CONSOLE CABLE AND PIN LOCATIONS



B ROW IS PIN ROW NEAR BOARD.

IS THE CABLE SEATED?

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

3 3
C D

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C D
2 2

4954/4956 CONSOLE

PAPER ONLY MAP

PAGE 3 OF 27

003

- RESEAT THE CABLE.
- GO TO THE MAP AND STEP THAT SENT YOU HERE TO SEE IF THE FAILING PART OR LED IS REPAIRED.

IF NO REPAIR, RETURN TO THIS MAP.

GO TO PAGE 1, STEP 001, ENTRY POINT A.

004

THE CONSOLE MUST HAVE AT LEAST ONE LED 'ON', TO ENSURE POWER IS GOOD TO THE CONSOLE BOARD. SEE IF THERE IS POWER TO THE BASIC CONSOLE AS FOLLOWS:

- POWER ON THE PROCESSING UNIT.
- ENSURE AT LEAST ONE LED IS 'ON', ON THE BASIC CONSOLE.

IS AT LEAST ONE LED 'ON', ON THE BASIC CONSOLE?

Y N

005

- ENSURE THE LOAD DEVICE IS NOT READY.
- SEE THE LOAD LED.
- PRESS AND RELEASE THE LOAD KEY.

IS THE LOAD LED 'ON'?

Y N

4 4
E F G

G

006

- SEE THE CONSOLE MLDS PA2XX FOR THE LOCATION OF THE VOLTAGE PINS. THE VOLTAGE PINS ARE CONNECTED TO A STANDARD VOLTAGE CONNECTOR.
- USE A RELAY PROBE WITH A TEST LEAD TO MAKE CONNECTIONS.
- SET THE MULTIMETER TO THE CORRECT D C VOLT.
- MEASURE THE VOLTAGE BETWEEN THE +5V PIN AND THE GROUND PIN ON THE BASIC CONSOLE.

IS +5V DC MEASURED AS NOTED ABOVE?

Y N

007

THE PROBLEM IS IN THE POWER CABLE TO THE CONSOLE OR THE POWER SUPPLY.

- SEE THE POWER SUPPLY ALDS YXXXX AND CONSOLE MLDS PA2XX.
- POWER OFF THE PROCESSING UNIT.
- DO A POINT TO POINT RESISTANCE TEST OF THE POWER CABLE TO THE CONSOLE ON THE SYSTEM. ENSURE YOU TEST THE CORRECT POWER CABLE.

IS THE POWER CABLE TO THE CONSOLE GOOD?

Y N

008

- REPAIR OR EXCHANGE THE FAILING POWER CABLE.
- VERIFY THE REPAIR.

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4 4
H J

MAP 1072-3

E F H J 4954/4956 CONSOLE
3 3 3 3

PAPER ONLY MAP

PAGE 4 OF 27

009

GO TO MAP 1470,
ENTRY POINT A.

010

THE VOLTAGE NETWORK ON THE
BASIC CONSOLE IS OPEN.

- REPAIR OR EXCHANGE THE
BASIC CONSOLE BOARD.

011

THE POWER ON LED IS BAD.

- REPAIR OR EXCHANGE THE POWER
ON LED.

- VERIFY THE REPAIR.

012

IS A PROGRAMMER OR MAINTENANCE
CONSOLE INSTALLED?

Y N

013

GO TO PAGE 14, STEP 052,
ENTRY POINT BC.

014

THE PROGRAMMER CONSOLE MUST HAVE
AT LEAST ONE LED 'ON', TO ENSURE
POWER IS GOOD TO THE CONSOLE
BOARD.

- ENSURE AT LEAST ONE LED IS
'ON', ON THE CONSOLE.

DOES THE PROGRAMMER CONSOLE HAVE
AT LEAST ONE (1) LED ON?

Y N

6
K L

MAP 1072-4

L

015

- SEE THE CONSOLE MLDS PA2XX FOR
THE LOCATION OF THE VOLTAGE
PINS. THE VOLTAGE PINS ARE
CONNECTED TO A STANDARD VOLTAGE
CONNECTOR.

- USE A RELAY PROBE WITH A TEST
LEAD TO MAKE CONNECTIONS.

- SET THE MULTIMETER TO THE
CORRECT D C VOLTAGE.

- MEASURE THE VOLTAGE BETWEEN THE
+5V PIN AND THE GROUND PIN ON
THE CONSOLE.

IS +5V DC MEASURED ON THE CONSOLE
HOUSING?

Y N

016

- SEE IF +5V IS MEASURED ON THE
BASIC CONSOLE.

IS +5V MEASURED AS NOTED ABOVE?

Y N

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5 5 5
M N P

MAP 1072-4

017 THE PROBLEM IS IN THE POWER CABLE TO THE CONSOLE OR THE POWER SUPPLY. SEE THE POWER ALDS YXXXX AND CONSOLE MLDS PA2XX.

- POWER OFF THE PROCESSING UNIT.
- DO A POINT TO POINT RESISTANCE TEST OF THE POWER CABLE TO THE CONSOLE ON THE SYSTEM.

IF THE BASIC CONSOLE POWER CABLE IS SUSPECTED, ENSURE YOU TEST THE CORRECT POWER CABLE.

IS THE POWER CABLE TO THE CONSOLES GOOD?

Y N

- 018
- REPAIR OR EXCHANGE THE FAILING POWER CABLE.
 - VERIFY THE REPAIR.

019 GO TO MAP 1470, ENTRY POINT A.

| |
| |
| |
| |
| 020
| THERE IS +5V TO THE BASIC CONSOLE, BUT NOT TO THE OTHER CONSOLE.

- POWER OFF THE PROCESSING UNIT.
- DO A POINT TO POINT RESISTANCE TEST OF THE VOLTAGE CABLE FROM THE BASIC TO THE OTHER CONSOLE.

IF THE BASIC CONSOLE CABLE IS SUSPECTED, ENSURE YOU TEST THE CORRECT POWER CABLE.

IS THE POWER CABLE GOOD?

Y N

- 021
- REPAIR OR EXCHANGE THE FAILING CABLE.
 - VERIFY THE REPAIR.

022 THE VOLTAGE NETWORK ON THE BASIC CONSOLE IS OPEN.

- REPAIR OR EXCHANGE THE BASIC CONSOLE BOARD.

023 THE VOLTAGE NETWORK ON THE CONSOLE IS OPEN.

- REPAIR OR EXCHANGE THE CONSOLE BOARD.

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K
4

4954/4956 CONSOLE

MAP 1072-6

PAPER ONLY MAP

PAGE 6 OF 27

024

(ENTRY POINT CT)

- SEE IF YOU WANT TO TEST A PROGRAMMER OR C E CONSOLE.
- SEE IF YOU WANT TO TEST THE BASIC CONSOLE AS FOLLOWS:

- A BASIC CONSOLE KEY.
- A BASIC CONSOLE LED.
- A BASIC CONSOLE SWITCH.

DO YOU WANT TO TEST THE BASIC CONSOLE AS NOTED ABOVE?

Y N

025

- SEE THE NOTE ---->

YOU WANT TO TEST A PROGRAMMER OR C E CONSOLE.

- SEE THE 'AUDIBLE DEVICE'.
- SEE THE LEDS.

'AUDIBLE DEVICE' - THE UNIT ON THE CONSOLE THAT IS SOUNDED WHEN A KEY IS PRESSED.

DO YOU WANT TO VERIFY A LED OR THE AUDIBLE DEVICE?

Y N

026

- SEE THE CONSOLE KEYS.

DO YOU WANT TO VERIFY A CONSOLE KEY?

Y N

027

GO TO PAGE 7,
STEP 028,
ENTRY POINT KT.

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MAP 1072-6

1
4 9 7
Q R S

5
6

PAPER ONLY MAP

PAGE 7 OF 27

028
(ENTRY POINT KT)

- FIND AND NOTE KEY TO BE TESTED.

CONSOLE KEY	ROW	COLUMN		
		TAB PIN	TAB PIN	
	*	**	*	**
AKR	2	06	10	02
CK RESTART	2	07	10	14
CIAR	1	03	09	03
CONSOLE INT	1	01	09	15
DATA BUFFER	0	01	08	15
0	0	08	08	06
1	1	08	09	06
2	2	08	10	06
3	3	08	11	06
4	0	09	08	07
5	1	09	09	07
6	2	09	10	07
7	3	09	11	07
8	0	10	08	13
9	1	10	09	13
A	2	10	10	13
B	3	10	11	13
C	0	11	08	12
D	1	11	09	12
E	2	11	10	12
F	3	11	11	12
IAR	1	06	09	02
INSTR STEP	1	07	09	14

CONSOLE KEY	ROW	COLUMN		
		TAB PIN	TAB PIN	
	*	**	*	**
LVL SELECT	3	02	11	04
LOAD	3	00	11	05
LOCK	1	00	09	05
LSR	3	06	11	02
MAIN STORE	0	06	08	02
OP REGISTER	2	03	10	03
PSW	3	03	11	03
R0	3	04	11	01
R1	2	04	10	01
R2	1	04	09	01
R3	0	04	08	01
R4	3	05	11	00
R5	2	05	10	00
R6	1	05	09	00
R7	0	05	08	00
RESET	2	00	10	05
SAR	0	03	08	03
SEG REG	0	02	08	04
START	2	01	10	15
STOP	3	01	11	15
STP ON ADD	0	07	08	14
STP ON ERR	3	07	11	14
STORE	0	00	08	05

IS THE ACTION COMPLETE?

Y N
|
|
|
|
|
|
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|
|
|

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8 8
T U

R
6

4954/4956 CONSOLE

MAP 1072-9

PAPER ONLY MAP

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035

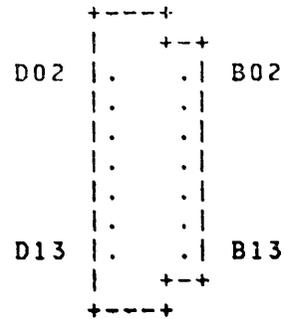
- DISCONNECT CABLE C1 AT THE PROCESSING UNIT CAPD.
- POWER ON THE PROCESSING UNIT.
- SEE THE NOTE --->

WHEN POWER IS ON, SOME LEDS WILL GO 'ON'

- GROUND THE FOLLOWING PINS.
- GROUND PTN B10 TO D08.
- REMOVE THE GROUND.
- GROUND PIN D10 TO D08.
- REMOVE THE GROUND.
- GROUND PIN B10 AND D10 TO D08.
- REMOVE THE GROUND.

THIS WILL ENSURE ALL LEDS AND THE AUDIBLE DEVICE ARE NOT ON. THE POWER ON LED WILL REMAIN ON.

WHEN POWER IS ON, SOME LEDS WILL GO 'ON'. THIS IS NORMAL, AND CAN BE USED BY YOU IF ONE OF THE LEDS 'ON' IS THE SUSPECT LED. DO NOT POWER OFF UNLESS THIS MAP INSTRUCTS YOU TO.



CABLE C1 PROCESSING UNIT END

ARE ALL LEDS OFF, AUDIBLE DEVICE SILENT AND 'POWER ON' LED ON?

Y N

036

THERE IS A LED ON OR THE AUDIBLE DEVICE IS SOUNDING,

- REMOVE CABLE C1 ON THE CONSOLE END.

ALL LEDS OFF, AUDIBLE DEVICE SILENT, AND 'POWER ON' LED ON?

Y N

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MAP 1072-9

1 1 1
0 0 0
X Y Z

X Y Z
9 9 9

4954/4956 CONSOLE

MAP 1072-10

PAPER ONLY MAP

PAGE 10 OF 27

037

THERE IS A LED ON OR THE
AUDIBLE DEVICE IS SOUNDING.
THE CONSOLE BOARD FAILED.

- EXCHANGE THE CONSOLE BOARD.
- VERIFY THE REPAIR.

038

THE CABLE FAILED.

- REPLACE THE CABLE.
- VERIFY THE REPAIR.

039

(ENTRY POINT LB)

- POWER OFF THE PROCESSING UNIT.

IS THE PROBLEM THE AUDIBLE
DEVICE?

Y N

1 1
2 1
A A
A B

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MAP 1072-10

A
B
1
0

|
|
040

- SEE LOGIC PA2XX.
- SEE THE LED TO BE GROUNDED IN THE CHART.
- SEE THE PINS TO BE GROUNDED (X = GROUND THE PIN).
- SEE CABLE C1 ON THE PROCESSING UNIT END.
- POWER OFF THE PROCESSING UNIT.
- GROUND THE PIN(S) FOR THE SUSPECT LED PER THE CHART, AT THE PROCESSING UNIT CARD END OF THE CABLE.
- POWER ON THE PROCESSING UNIT.
- ENSURE THE SUSPECT LED IS ON.
- REMOVE THE GROUND.
- ENSURE THE SUSPECT LED IS OFF.

LED TO TEST:	B10	D10	BXX
AUDIBLE DEVICE	X	X	B12
CHECK	X	X	B07
CHECK RESTART	X	X	D09
DATA BIT 00	X		B03
DATA BIT 01	X		B04
DATA BIT 02	X		D09
DATA BIT 03	X		B06
DATA BIT 04	X		B07
DATA BIT 05	X		B08
DATA BIT 06	X		B11
DATA BIT 07	X		B12
DATA BIT 08			B03
DATA BIT 09			B04
DATA BIT 10			D09
DATA BIT 11			B06
DATA BIT 12			B07
DATA BIT 13			B08
DATA BIT 14			B11
DATA BIT 15			B12
INSTRUCTION STEP	X	X	B04
LEVEL 0		X	B03
LEVEL 1		X	B04
LEVEL 2		X	D09
LEVEL 3		X	B06
LOAD	X	X	B08
LOCK	X	X	B11
POWER ON (NOT +)		DOT	SIDE LED
RUN		X	B11
STOP		X	B08
STOP ON ADDRESS	X	X	B03
STOP ON ERROR	X	X	B06
WAIT LED		X	B07

DID THE LED TEST O.K.?

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

1 1
2 2
A A
C D

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A A 4954/4956 CONSOLE
C D
1 1 PAPER ONLY MAP
1 1
PAGE 12 OF 27

041
THE PROBLEM IS THE LED OR THE
CABLE.

- REMOVE CABLE C1 ON THE
CONSOLE END.
- GROUND THE PIN(S) FOR THE
SUSPECT LED ON THE CONSOLE
BOARD SLT CONNECTOR.
- ENSURE THE SUSPECT LED IS ON.
- REMOVE THE GROUND.
- ENSURE THE SUSPECT LED IS
OFF.

DID THE LED TEST OUT O.K.?
Y N

042
THE PROBLEM IS IN THE CONSOLE
BOARD.

- REPAIR OR REPLACE THE
BOARD.
- VERIFY THE REPAIR.

043
THE CABLE IS BAD.

- REPAIR OR REPLACE THE CABLE.
- VERIFY THE REPAIR.

044
PROCESSING UNIT CARD IS SUSPECT.
GO TO MAP 2070, ENTRY POINT PC.

A MAP 1072-12
A
1
0

- 045
- SEE LOGIC PA2XX.
 - SEE CABLE C1 ON THE PROCESSING
UNIT END.
 - GROUND THE AUDIBLE DEVICE PINS
B10, B12 AND D10 AT THE
PROCESSING UNIT CARD END OF THE
CABLE.
 - ENSURE THE AUDIBLE DEVICE
SOUNDS.
 - REMOVE THE GROUND.
 - ENSURE THE AUDIBLE DEVICE IS
SILENT.

DID THE AUDIBLE DEVICE TEST
CORRECT?

Y N

- 046
- SEE LOGIC PA2XX.
 - REMOVE CABLE C1 ON THE
CONSOLE END.
 - GROUND THE AUDIBLE DEVICE
PINS B10, B12 AND D10 ON
CONSOLE BOARD SLT CONNECTOR
C1.
 - ENSURE THE AUDIBLE DEVICE
SOUNDS.
 - REMOVE THE GROUND.
 - ENSURE THE AUDIBLE DEVICE IS
SILENT.

DID THE AUDIBLE DEVICE TEST
CORRECT?

Y N

1 1 1
3 3 3
A A A
E F G

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MAP 1072-12

A A A 4954/4956 CONSOLE
E F G
1 1 1 PAPER ONLY MAP
2 2 2
PAGE 13 OF 27

MAP 1072-13

| | |
| | |
| | 047
| | THE AUDIBLE DEVICE IS MARKED
| | + AND -.
| |
| | - GROUND THE MINUS SIDE OF
| | THE AUDIBLE DEVICE.
| | - ENSURE THE AUDIBLE DEVICE
| | SOUNDS.
| | - REMOVE THE GROUND.
| | - ENSURE THE AUDIBLE DEVICE
| | IS SILENT.
| |
| | DID THE AUDIBLE DEVICE TEST
| | CORRECT?
| | Y N
| | |
| | 048
| | THE AUDIBLE DEVICE IS BAD.
| |
| | - REPAIR OR REPLACE THE
| | AUDIBLE DEVICE.
| | - VERIFY THE REPAIR.
| |
| | 049
| | THE CONSOLE BOARD IS BAD.
| |
| | - REPAIR OR REPLACE THE
| | BOARD.
| | - VERIFY THE REPAIR.
| |
| | 050
| | THE CABLE IS BAD.
| |
| | - REPAIR OR REPLACE THE CABLE.
| | - VERIFY THE REPAIR.
| |
| | 051
| | PROCESSING UNIT CARD IS SUSPECT.
| | GO TO MAP 2070, ENTRY POINT PC.

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MAP 1072-13

Q
6

PAPER ONLY MAP

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052
(ENTRY POINT BC)

IF THE MAINTENANCE CONSOLE TOOL IS INSTALLED ON THE CUSTOMER SYSTEM. THE CABLE TESTED IS PART OF THE MAINTENANCE CONSOLE TOOL. IF THE TEST INDICATES A GOOD PART, THE CABLE USED BY THE BASIC CONSOLE IS NOT CONNECTED AND WILL HAVE TO BE TESTED WITH THE MULTIMETER.

THIS IS THE BASIC CONSOLE TEST PROCEDURE. SEE THE CONSOLE MLDS PAXXX FOR LOCATION.

- SEE THE CHART ---->
- POWER OFF THE PROCESSING UNIT.

DO YOU WANT TO TEST THE LOAD KEY?
Y N

053
- SEE IF YOU WANT TO TEST A LED THAT WILL NOT COME ON OR GO OFF.

DO YOU WANT TO TEST A LED?
Y N

054
- SEE IF YOU WANT TO TEST A SWITCH.

DO YOU WANT TO TEST A SWITCH?
Y N

055
GO TO PAGE 22,
STEP 096,
ENTRY POINT MT.

2 1 1
1 7 5
A A A
H J K

SWITCHES AND LEDS ON THE BASIC CONSOLE	FROM PIN	TO PIN	MULTI METER READS
MODE AUTO IPL	C6D08	C6D07	SHORT
MODE DIAG	C6D08	C6B02	SHORT
MODE NORMAL	C6D08 OPEN TO PINS C6B02 & C6D07		
LOAD KEY	C6D03	C6B05	SHORT
LOAD LED		C6D06	
PRIMARY SWIT.	C6D08	C6B09	OPEN
ALTERNATE SW.	C6D08	C6B09	SHORT
RUN LED		C6D04	
WAIT LED		C6D05	

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A 4954/4956 CONSOLE
M
1 PAPER ONLY MAP
5
PAGE 16 OF 27

|
|
057
NOTE - WHEN TESTING A SWITCH,
TEST EACH POSITION OF THE SWITCH.
USE A TEST LEAD TO CONNECT
DIRECTLY TO EACH SWITCH TERMINAL.

- TEST THE SUSPECT SWITCH ON THE BASIC CONSOLE.
- MEASURE THE RESISTANCE BETWEEN EACH SWITCH TERMINAL.
- OPERATE THE SWITCH.

THE RESISTANCE READING IS IN 'C. E. MULTIMETER READING' COLUMN.

- OPERATE THE SWITCH TO ANY OTHER POSITION.

THIS WILL CHANGE THE C. E. MULTIMETER READING AND VERIFY THE OPERATION OF THE SWITCH.

DID THE SWITCH OPERATE CORRECT?
Y N

|
| 058
| THE SWITCH IS BAD.
|
| - REPAIR OR EXCHANGE THE SWITCH.
| - IF NO REPAIR, EXCHANGE THE CONSOLE.
|

059
THE PROBLEM IS IN THE BASIC CONSOLE BOARD.

- REPAIR OR EXCHANGE THE BASIC CONSOLE BOARD.
- VERIFY THE REPAIR.

A MAP 1072-16
L
1
5

|
|
060
THE PROBLEM IS IN THE CABLE OR THE PROGRAMMER CONSOLE BOARD.

- DO A POINT TO POINT TEST OF THE CABLE.

DOES THE CABLE TEST CORRECT?
Y N

|
| 061
| - REPAIR OR EXCHANGE THE CABLE.
|

062
- EXCHANGE THE CONSOLE BOARD.

DOES THE SWITCH TEST CORRECT?
Y N

|
| 063
| PROCESSING UNIT CARD IS SUSPECT.
| GO TO MAP 2070, ENTRY POINT PC.
|

064
- SEE IF THE PROBLEM IS REPAIRED.

IS THE PROBLEM REPAIRED?
Y N

|
| 065
| PROCESSING UNIT CARD IS SUSPECT.
| GO TO MAP 2070, ENTRY POINT PC.
|

066
- VERIFY THE REPAIR.

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MAP 1072-16

A
P
1
7

068

THERE ARE LEDS THAT ARE ON SOLID.
THE 'POWER ON RESET' LINE IS
SUSPECT.

- SEE THE NOTE --->
- POWER ON THE PROCESSING UNIT.
- PROBE THE 'POWER ON RESET' PIN
- S05 - AT THE PROCESSING UNIT
CARD POSITION(S).
- SEE CORRECT LOGIC, AXXXX.

```

+-----+
| LINE NAME | PIN |
+-----+-----+
| POWER ON RESET | S05 |
+-----+

```

- USE LOGIC PROBE 2 OR SIMILAR.
- SET THE TECHNOLOGY SWITCH TO 'MULTI'.
- SET LATCH SWITCH TO 'NONE'.
- SET GATE REF SWITCH TO 'GND'.
- PLUG RED (+) WIRE OF POWER CABLE ON +5 V.
- PLUG BLACK WIRE OF CABLE ON GROUND PIN.

GROUND AND +5 VOLTS IS ON ANY I/O POSITION OF THE 495X BOARD.

```

+-----+ +-----+
| PROBE | LOGIC | | GROUND | +5V | |
| INDICATOR | PROBED | |-----|-----|
|-----+-----+ | D08 | D03 |
| UP | DOWN | MEANING | | J08 | J03 |
|-----+-----+ | P08 | P03 |
| 0 | 0 | * | | U08 | U03 |
| 1 | 0 | UP | |-----+-----+
| 0 | 1 | DOWN |
| 1 | 1 | PULSING |
+-----+

```

* SIGNAL VOLTAGE IS NOT CORRECT OR NO VOLTAGE.

THE LOGIC PROBE 2 AND ITS USE IS IN MANUAL 'SY27-0127-X' OR MAP 0010, SECTION 11.00.00.

IS THE LINE UP?

Y N

069

GO TO MAP 1470, ENTRY POINT A.

1
9
A
Q

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A
N
1
7

4954/4956 CONSOLE

MAP 1072-20

PAPER ONLY MAP

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|
|

077

(ENTRY POINT LC)

- SEE THE CHART --->
- POWER ON THE PROCESSING UNIT.
- UNSEAT THE CABLE FROM CONNECTOR C6 ON THE BASIC CONSOLE CARD.
- GROUND THE LED PIN ON THE BASIC CONSOLE CONNECTOR TO A D08 PIN ON THE PROCESSING UNIT BOARD OR TO FRAME GROUND.

THE LED TESTED WILL GO ON.

SWITCHES AND LEDS ON THE BASIC CONSOLE	FROM PIN	TO PIN	MULTI METER READS
MODE AUTO IPL	C6D08	C6D07	SHORT
MODE DIAG	C6D08	C6B02	SHORT
MODE NORMAL	C6D08 OPEN TO PINS C6B02 & C6D07		
LOAD KEY	C6D03	C6B05	SHORT
LOAD LED		C6D06	
PRIMARY SWIT.	C6D08	C6B09	OPEN
ALTERNATE SW.	C6D08	C6B09	SHORT
RUN LED		C6D04	
WAIT LED		C6D05	

DOES THE LED TEST GOOD?

Y N

|

| 078

- | - EXCHANGE THE FAILING LED OR
- | THE CONSOLE BOARD.

|

079

(ENTRY POINT CB)

THE PROBLEM IS IN THE CABLE OR THE PROGRAMMER CONSOLE BOARD.

- SET THE MULTIMETER TO THE X1 RESISTANCE.
- DO A POINT TO POINT TEST OF CABLE UNSEATED FROM C6.
- MEASURE FOR AN OPEN OR SHORT IN THE CABLE, PIN TO PIN.

DOES THE CABLE TEST CORRECT?

Y N

| |

| |

| |

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ECA40867 PECA40740

MAP 1072-20

A A 4954/4956 CONSOLE
S T
2 2 PAPER ONLY MAP
0 0
PAGE 21 OF 27

| |
| |
| 080
| - REPAIR OR EXCHANGE THE CABLE.
|
081
- EXCHANGE THE PROGRAMMER CONSOLE BOARD IF INSTALLED.

DOES THE LED TEST CORRECT?
Y N
|
| 082
| PROCESSING UNIT CARD IS
| SUSPECT.
| GO TO MAP 2070, ENTRY POINT PC.
|
083
- SEE IF THE PROBLEM IS REPAIRED.

IS THE PROBLEM REPAIRED?
Y N
|
| 084
| PROCESSING UNIT CARD IS
| SUSPECT.
| GO TO MAP 2070, ENTRY POINT PC.
|
085
- VERIFY THE REPAIR.

A MAP 1072-21
H
1
4

| |
| |
| 086
| (ENTRY POINT LK)
|
- UNSEAT THE CABLE ON CONNECTOR C6 ON THE BASIC CONSOLE CARD.
- SET THE MULTIMETER TO X1 RESISTANCE.
- CONNECT ONE METER LEAD TO C6B05.
- CONNECT THE OTHER METER LEAD TO C6D03.
- DO NOT PRESS THE LOAD KEY.
- TEST FOR AN OPEN BETWEEN C6B05 AND C6D03 ON THE BASIC CONSOLE CONNECTOR C6.
- PRESS AND HOLD THE LOAD KEY.
- TEST FOR A SHORT BETWEEN C6B05 AND C6D03.

DID THE LOAD KEY TEST CORRECT?
Y N
|
| 087
| THE PROBLEM IS IN THE LOAD KEY.
|
| - REPAIR OR EXCHANGE THE LOAD
| KEY OR THE BASIC CONSOLE
| BOARD.
| - VERIFY THE REPAIR.
|

088
- SEE IF THE CABLE TO THE C6 CONNECTOR HAS BEEN TESTED.

HAS THE CABLE HAS BEEN TESTED?
Y N
| |
| |
| |
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| |

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2 2
2 2 ECA40867 PECA40740
A A
U V MAP 1072-21

B
A
2
3

103

TABLE ONE (1) IS A LIST OF PINS FOR A ROW TO COLUMN TEST FOR A SHORT OR OPEN.

- SET THE MULTIMETER TO X1 RESISTANCE.
- PUT THE PLUS TEST LEAD ON THE PIN INDICATED IN 'TEST LEAD ON' COLUMN.
- PUT THE MINUS TEST LEAD ON THE PINS INDICATED BY 'TEST COLUMN' COLUMN.
- START AT THE TOP OF THE TABLE AND TEST THE ROW AND COLUMN INDICATED, IN SEQUENCE:

ROW 00 IS PIN 08 OF THE TAB CONNECTOR ON THE BOARD. COLUMN 00 IS PIN 05 OF THE SAME CONNECTOR. THE C. E. MULTIMETER WILL INDICATE AN OPEN CIRCUIT (REFERANCE LOGIC PA205).

- PRESS THE KEY FOR ROW 00 COLUMN 00 (STORE KEY).
- MEASURE FOR A SHORT WHEN THE KEY IS PRESSED.
- DO OPEN AND SHORT TEST FOR ALL 'TEST LEAD ON' PINS.
- DO THIS FOR ALL 'COLUMN' TAB PINS.

DOES THE MULTIMETER INDICATE AN OPEN CIRCUIT FOR THE TEST?

Y N

104

- EXCHANGE THE CONSOLE BOARD.

2
5
B
B

TABLE ONE (1) ROW TO COLUMN		
TO TEST ROW	TEST LEAD ON	TEST COLUMN
ROW 0	08	00 TO 11
ROW 1	09	00 TO 11
ROW 2	10	00 TO 11
ROW 3	11	00 TO 11
COLUMN	PIN IS:	
COLUMN 00	05	
COLUMN 01	15	
COLUMN 02	04	
COLUMN 03	03	
COLUMN 04	01	
COLUMN 05	00	
COLUMN 06	02	
COLUMN 07	14	
COLUMN 08	06	
COLUMN 09	07	
COLUMN 10	13	
COLUMN 11	12	

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A B 4954/4956 CONSOLE
 Z B
 2 2 PAPER ONLY MAP
 3 4
 PAGE 25 OF 27

MAP 1072-25

| |
 | |
 | 105
 | - RETURN ANY CABLE OR COVER
 | REMOVED IN THIS MAP TO ITS
 | ORIGINAL CONDITION.
 | - RETURN TO THE MAP AND STEP
 | THAT SENT YOU HERE.
 |

106
 TABLE TWO (2) IS A LIST OF PINS
 FOR A COLUMN TO COLUMN TEST FOR A
 SHORT.

- SET THE MULTIMETER TO X1 RESISTANCE.
- PUT THE PLUS TEST LEAD ON THE PIN INDICATED IN 'TEST LEAD ON' COLUMN. THIS IS THE REFERENCE POINT FOR MEASURING FOR A SHORT CIRCUIT.
- PUT THE MINUS TEST LEAD ON THE PINS INDICATED BY 'TEST COLUMN' COLUMN.
- START AT THE TOP OF THE TABLE AND TEST THE COLUMN INDICATED IN SEQUENCE, AS FOLLOWS:

COLUMN 00 IS PIN 05 OF THE TAB CONNECTOR ON THE BOARD.
 COLUMN 01 IS PIN 15 OF THE SAME CONNECTOR.
 THE C. E. MULTIMETER WILL INDICATE AN OPEN CIRCUIT.

- DO THIS FOR ALL 'TEST LEAD ON' TAB PINS.
- DO THIS FOR ALL 'TEST COLUMNS' TAB PINS

DOES THE MULTIMETER INDICATE AN OPEN CIRCUIT FOR THE TEST?

Y N
 | |
 | |
 | |

2 2
 6 6
 B B
 C D

TABLE TWO (2) COLUMN - COLUMN		
REFERENCE COLUMN OR ROW	TEST LEAD ON	TEST COLUMN(S)
COLUMN 00	05	01 TO 11
COLUMN 01	15	02 TO 11
COLUMN 02	04	03 TO 11
COLUMN 03	03	04 TO 11
COLUMN 04	01	05 TO 11
COLUMN 05	00	06 TO 11
COLUMN 06	02	07 TO 11
COLUMN 07	14	08 TO 11
COLUMN 08	06	09 TO 11
COLUMN 09	07	10 TO 11
COLUMN 10	13	11 ONLY
COLUMN 11	12	DONE

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MAP 1072-25

A B B 4954/4956 CONSOLE
Y C D
2 2 2 PAPER ONLY MAP
3 5 5
PAGE 26 OF 27

MAP 1072-26

| | |
| | |
| | 107
| | - EXCHANGE THE CONSOLE BOARD.
| |
| 108
| GO TO PAGE 23, STEP 101,
| ENTRY POINT RC.
|

109
TABLE THREE (3) IS A LIST OF PINS
FOR A ROW TO ROW TEST FOR A
SHORT.

- SET THE MULTIMETER TO X1
RESISTANCE.
- PUT THE PLUS TEST LEAD ON THE
PIN INDICATED IN 'TEST LEAD ON'
COLUMN. THIS IS THE REFERENCE
POINT FOR MEASURING FOR A SHORT
CIRCUIT.
- PUT THE MINUS TEST LEAD ON THE
PINS INDICATED BY 'TEST ROWS'
COLUMN.
- START AT THE TOP OF THE TABLE
AND TEST THE ROW INDICATED IN
SEQUENCE, AS FOLLOWS:

COLUMN 00 IS PIN 05 OF THE TAB
CONNECTOR ON THE BOARD.
ROW 0 IS PIN 08 OF THE SAME
CONNECTOR.
THE C. E. MULTIMETER WILL
INDICATE AN OPEN CIRCUIT.

- DO THIS FOR ALL 'TEST LEAD ON'
TAB PINS.
- DO THIS FOR ALL 'TEST ROWS' TAB
PINS.

DOES THE MULTIMETER INDICATE AN
OPEN CIRCUIT FOR THE TEST?

Y N
| |
| |
| |

2 2
7 7
B B
E F

TABLE THREE (3) ROW TO ROW		
REFERENCE ROW	TEST LEAD ON	TEST ROWS
ROW 0	08	1 TO 3
ROW 1	09	2 TO 3
ROW 2	10	3 ONLY
ROW 3	11	DONE

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MAP 1072-26

A A B B 4954/4956 CONSOLE

MAP 1072-27

1 W E F

2 2 2 PAPER ONLY MAP

| 2 6 6

PAGE 27 OF 27

|

| | |

| | | 110

| | | - EXCHANGE THE CONSOLE
| | | BOARD.

| | |

| | | 111

| | GO TO PAGE 23, STEP 100,

| | ENTRY POINT CC.

|

| | 112

| | GO TO PAGE 6, STEP 024,

| | ENTRY POINT CT.

|

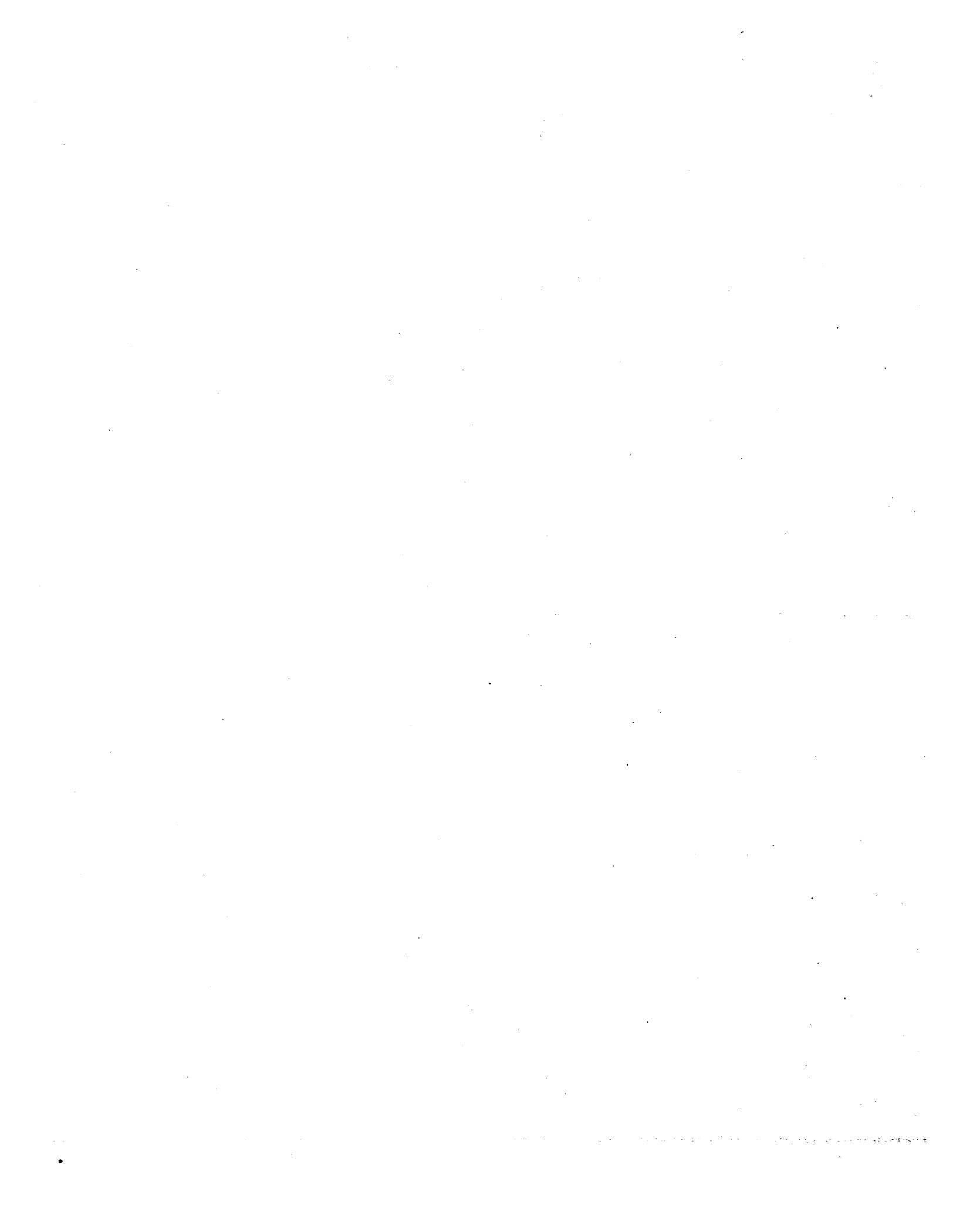
113

GO TO MAP 1071, ENTRY POINT A.

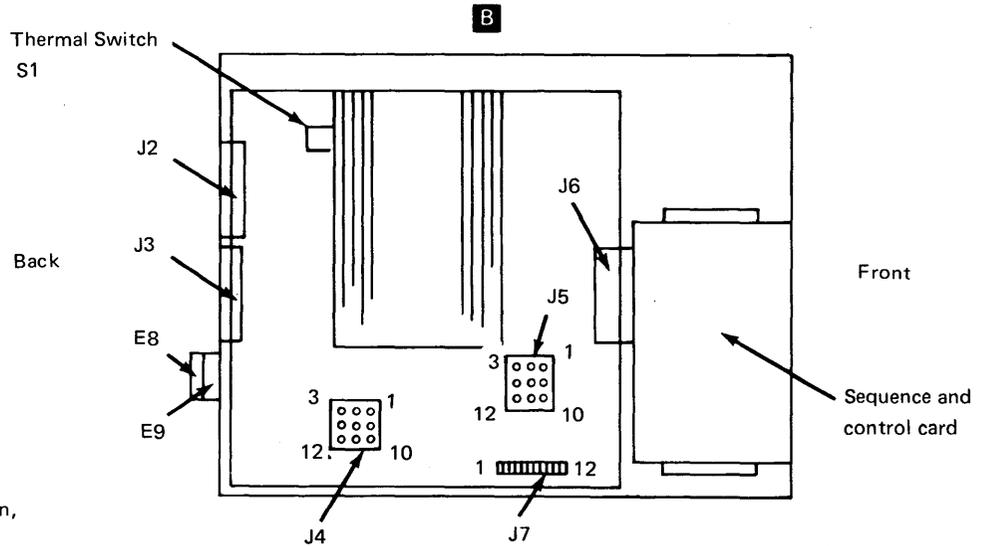
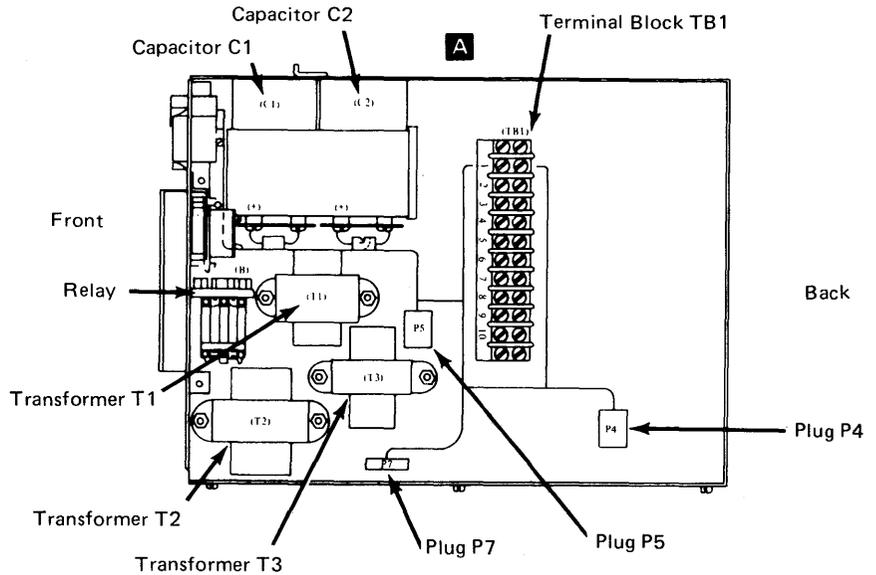
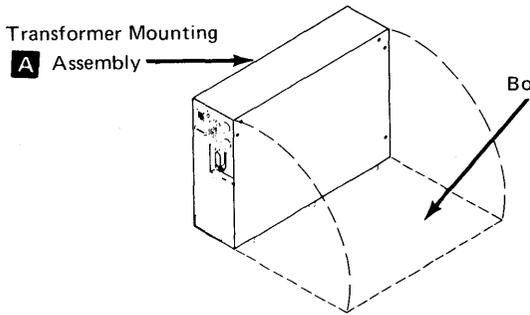
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MAP 1072-27



4953 MODELS A AND C, 125 WATT POWER SUPPLY, TRANSFORMER MOUNTING ASSEMBLY AND BOARD MOUNTING PLATE LOCATIONS



Note.
For user information,
see the prolog.

Sequence		Part	EC 374831	EC 374831B			
0414AA	1 of 2	6826697	7-1-78	3-16-79			

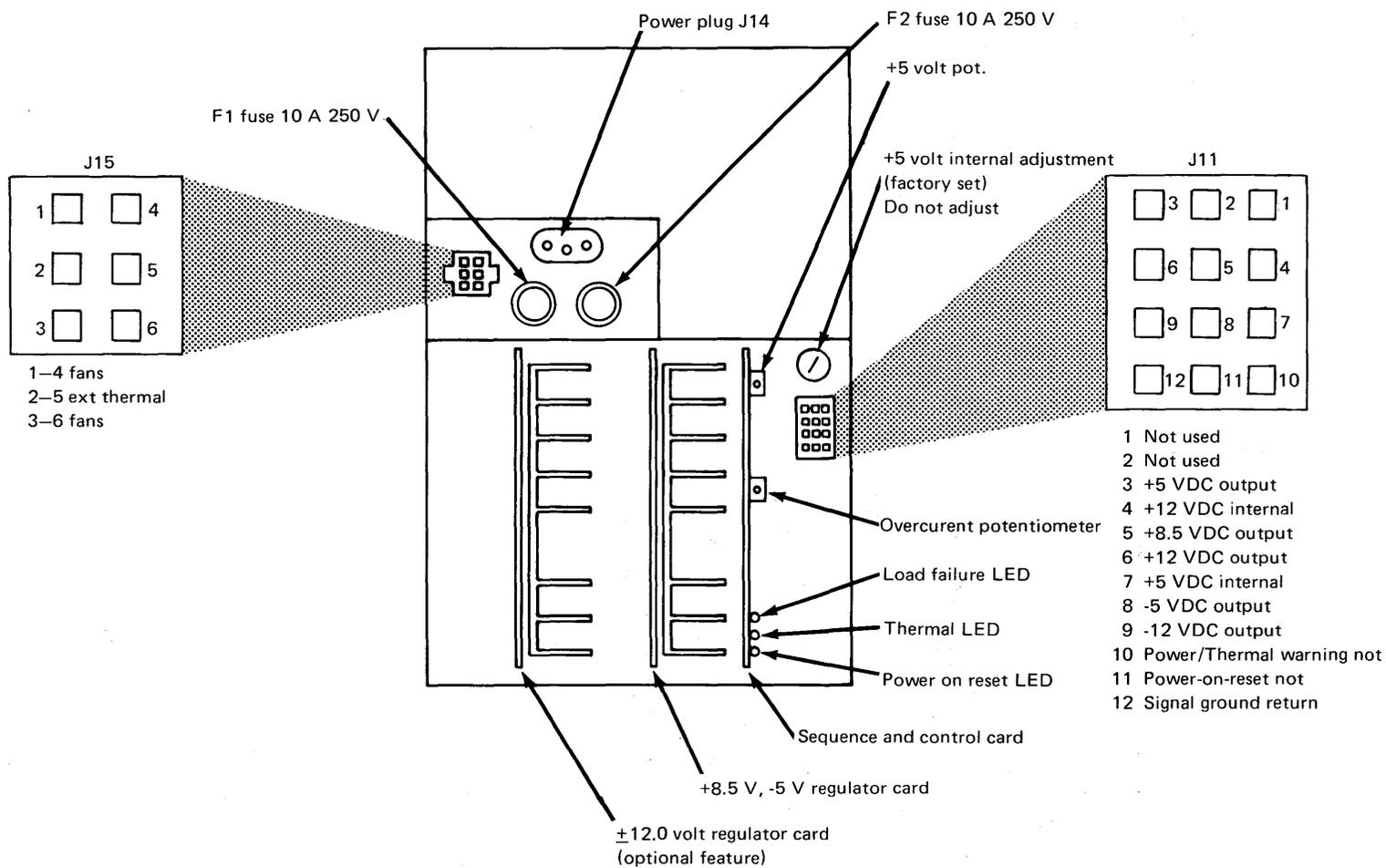
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14XX
POWER

Sequence		Part	EC 374831	EC 374831B			
0414AA	2 of 2	6826697	7-1-78	3-16-79			

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300 Watt Power Supply - Front View



SYSTEM POWER MAP CHART

MAP 1470-1

PAPER ONLY MAP

PAGE 1 OF 3

ENTRY POINTS

FROM	ENTER THIS MAP		

MAP	ENTRY	PAGE	STEP
NUMBER	POINT	NUMBER	NUMBER

0020	A	2	001
0070	A	2	001
0071	A	2	001
0072	A	2	001
1072	A	2	001
2000	A	2	001
2071	A	2	001
3871	A	2	001

001

(STEP 001 CONTINUES)

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MAP 1470-1

SYSTEM POWER

MAP 1470-2

PAPER ONLY MAP

PAGE 2 OF 3

(STEP 001 CONTINUED)

(ENTRY POINT A)

- FIND THE FAILING MACHINE
TYPE/POWER SUPPLY AND GO
TO THE MAP INDICATED,
ENTRY POINT A.

MACHINE TYPE	MODEL	POWER SUPPLY	MAP NUMBER	DESCRIPTION/COMMENT
4952	A	200	1480	PROCESSOR < S/N 49999
4952	A	185	1479	PROCESSOR > S/N 50000
4952	B	400	1476	PROCESSOR < S/N 15399
			1476	PROCESSOR < 53-02499
4952	B	415	1477	PROCESSOR > S/N 15400
			1477	PROCESSOR > 53-02500
4952	C	230	1478	PROCESSOR
4952	D	435	1482	PROCESSOR
4953	A OR C	125	1472	PROCESSOR
4953	B	300	1473	PROCESSOR
4954	A	185	1479	PROCESSOR
4954	B	415	1477	PROCESSOR
4954	C	230	1478	PROCESSOR
4954	D	435	1482	PROCESSOR
4955	A TO D	300	1473	PROCESSOR
4955	E	400	1476	PROCESSOR
4955	F	415	1477	PROCESSOR
4956	B/E/K	415	1477	PROCESSOR
4956	C	230	1478	PROCESSOR
4956	D	435	1482	PROCESSOR
4956	MOD 60E	435	1482	PROCESSOR
4956	MOD E70	435	1482	PROCESSOR
4956	MOD G/H	450	1483	PROCESSOR
4956	MOD J	450	1483	PROCESSOR

(STEP 001 CONTINUES)

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MAP 1470-2

SYSTEM POWER

MAP 1470-3

PAPER ONLY MAP

PAGE 3 OF 3

(STEP 001 CONTINUED)

MACHINE TYPE	MODEL	POWER SUPPLY	MAP NUMBER	DESCRIPTION/COMMENT
4959		300	1473	PROCESSOR < S/N 22499
				< 53-4299
4959		415	1477	PROCESSOR > S/N 22500
				> 53-4300
4962			7885	DISK
4963			7A80	DISK
4964			4880	DISKETTE
4965	001	230	1478	EXPANSION
4965	D	435	1482	EXPANSION
4965	E	450	1483	EXPANSION
4966			4A80	DISKETTE
4967			1481	DISK
4973			6871	PRINTER
4974			6471	PRINTER
4975			0002	4975 MAPS
4978			4570	
4979			4471	
4982			1474	
4987			E080	
4997			1471	
4999			1475	
RPQ			RPQ	PROLOG

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MAP 1470-3



PAPER ONLY MAP

PAGE 1 OF 47

ENTRY POINTS

FROM ENTER THIS MAP			
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
1470	A	1	001

EXIT POINTS

EXIT THIS MAP TO			
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
47	187	0070	A
18	065	1471	A
18	066	1471	A
28	094	1475	A
37	127	1475	A
40	148	1475	A
47	188	1475	A

001
(ENTRY POINT A)

THIS IS A CHART FOR LOCATING MIM SECTIONS ----->

DANGER

HAZARDOUS VOLTAGES EXIST WITHIN THE SYSTEM. USE EXTREME CARE ANYTIME YOU ARE WORKING INSIDE THE SYSTEM COVERS AND POWER IS ON.

ENSURE PROPER GROUNDING OF ALL UNITS.

BEFORE TROUBLESHOOTING POWER PROBLEMS IN THE PROCESSING UNIT THE FRONT COVER MUST BE REMOVED. ALSO THE PROGRAMMER CONSOLE GATE (IF IT IS INSTALLED ON THE UNIT) MUST BE OPEN.

- SEE LOGIC PAGES YA450, YA455, YA460, AND YA465. AND THE MAINTENANCE INFORMATION MANUAL FOR REPAIR, REMOVAL AND (STEP 001 CONTINUES)

L I N E	TASK TO BE DONE BY THE CE:	PROCESSOR MIM SECTION
		495X
1	CABLING DIAGRAM	3.XX
2	POWER SUPPLY DIAGRAM	3.XX
3	SWITCH REMOVAL	4.XX
4	BASIC CONSOLE REMOVAL	4.XX
5	VOLTAGE TEST POINTS	4.XX
6	POWER SUPPLY REMOVAL	4.XX
7	VOLTAGE CHANGE	4.XX
8	SURGE RELAY REMOVAL	4.XX
9	CAPACITOR REMOVAL	4.XX
10	CIRCUIT BREAKER	4.XX

(STEP 001 CONTINUES)

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(STEP 001 CONTINUED)
INSTALLATION PROCEDURES OR
PARTS LOCATIONS.

- ***** ATTENTION *****.
- IF SYSTEM IS SUPPORTED BY A 4999(BBU), THE J1 JUMPER MUST BE REMOVED FROM THE POWER SUPPLIES OF ALL UNITS USING THE 415 W POWER SUPPLIES (P/N 6844100). REFER TO LOGIC PAGE YA455 (P/N 6844421).
- POWER OFF ALL MODULES AND DEVICES ON THE SYSTEM.

 * DO NOT PROCEED UNTIL THE JUM- *
 * PER FROM A5B05 TO B5B05 IS ***
 * REMOVED FROM THE 4955 PROCES- *
 * SOR BACKBOARD (IF IT IS IN- *
 * STALLED). REMOVE THE BACK **
 * COVER OF THE 4955 PROCESSOR **
 * TO GAIN ACCESS TO THIS JUMPER*
 * IMPORTANT: REPLACE THE JUMPER*
 * AFTER THE REPAIR IS COMPLETE *
 * AND VERIFIED (IF REMOVED). *

IS THE PROCESSING UNIT'S POWER OFF?

Y N

| 002
| THE POWER ON SWITCH IS
| DEFECTIVE.

- | - EXCHANGE THE POWER ON SWITCH.
- | GO TO PAGE 15, STEP 047,
- | ENTRY POINT RL.

(STEP 001 CONTINUED)

REMOVAL	
11 FILTER REMOVAL	4.XX
12 LINE CORD REMOVAL	4.XX
13 LOGIC BOARD REMOVAL	4.XX
14 FAN ASSEMBLY REMOVAL	4.XX

A
2
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003
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003
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4
B C

- SEE THE NOTE -->
- WAIT THIRTY (30) SECONDS.
- POWER ON THE PROCESSING UNIT.
- SEE IF THE PROCESSING UNIT FAN IS RUNNING.

DANGER

TO ENSURE THAT THERE IS NO HAZARDOUS ELECTRICAL DIFFERENCE BETWEEN MACHINES WHEN A MODULE IS REMOVED FROM THE RACK, DO THE FOLLOWING TEST. ENSURE THE MULTIMETER TEST LEADS ARE CONNECTED TO METAL PARTS OF THE MACHINE.

- 1) CONNECT POWER CABLES TO THE OUTLETS AND MACHINE POWER SWITCH OFF.
- 2) DO NOT TOUCH BOTH MACHINES AT THE SAME TIME UNTIL A NO VOLTAGE READING IS VERIFIED.

CHECKING FOR A GOOD GROUND CAN BE TESTED BY ONE OF THE FOLLOWING THREE METHODS:

FIRST METHOD

- PLACE THE MULTIMETER BETWEEN A MACHINE THAT IS NOT INSTALLED IN THE RACK AND A MACHINE THAT IS PLUGGED INTO THE RACK.
- GO TO ***** -->

SECOND METHOD

- PLACE THE MULTIMETER BETWEEN THE RACK AND A WATER PIPE.
- PLACE THE MULTIMETER BETWEEN A UNIT THAT IS NOT INSTALLED IN THE RACK AND A WATER PIPE.
- GO TO ***** BELOW.

THIRD METHOD

- PLACE THE MULTIMETER BETWEEN A UNIT THAT IS NOT INSTALLED IN THE RACK AND THE OUTLET GROUND CONNECTION.
- THEN PLACE THE MULTIMETER BETWEEN THE RACK AND THE OUTLET GROUND CONNECTION.

- SET THE MULTIMETER TO READ 10 VOLTS OR LESS.
- IF THERE IS A NO VOLTAGE READING: SET THE MULTIMETER TO READ OHMS.

IF THE MULTIMETER READS LESS THAN 2 OHMS THE MACHINE OUTSIDE THE RACK IS PROPERLY GROUNDED.

IF THE MULTIMETER READS MORE THAN 2 OHMS THERE IS A POOR ELECTRICAL GROUND.

IF THE MULTIMETER READS MORE THAN 50K OHMS THERE IS NO GROUND PRESENT AND THE GROUND MUST BE CHECKED OR A GROUND MUST BE INSTALLED.

IS THE PROCESSING UNIT FAN RUNNING?

Y N
| |
| |
| |
| |
| |
3
4 4
B C

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C
3

POWER SUPPLY MAP

PAPER ONLY MAP

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004
THE FAN IS NOT RUNNING.

- SEE IF THE POWER ON LED IS ON.
- SEE IF THE POWER ON LED IS ON FOR AT LEAST 15 SECONDS.

IS THE POWER ON LED ON AS NOTED ABOVE?

Y N

005

- SEE IF THE POWER ON LED IS FLASHING.

IS THE POWER ON LED FLASHING?

Y N

006

- SEE IF THE PROCESSING UNIT'S CIRCUIT BREAKER IS SWITCHED ON.

IS THE PROCESSING UNIT'S CIRCUIT BREAKER SWITCHED ON?

Y N

007

- SWITCH OFF THE PROCESSING UNIT'S AC POWER SWITCH.
- SWITCH ON THE PROCESSING UNIT'S AC CIRCUIT BREAKER.
- SWITCH ON THE PROCESSING UNIT'S AC POWER SWITCH.

DID THE CIRCUIT BREAKER SWITCH OFF?

Y N

3 2
0 8
D E F G H

F G H

MAP 1477-4

008

- SEE IF THE PROCESSING UNIT POWER ON IS ON.

DID THE PROCESSING UNIT POWER ON?

Y N

009

- GO TO STEP 012, ENTRY POINT BU.

010

- VERIFY THE REPAIR.

011

- GO TO PAGE 8, STEP 027, ENTRY POINT CD.

012

(ENTRY POINT BU)

THE POWER ON LED IS OFF (POSSIBLE DC FAILURE).

THE FAN IS OFF (POSSIBLE AC FAILURE).

THERE IS NO POWER.

- SEE IF A 4999 BATTERY BACKUP (BBU) IS INSTALLED AS PART OF THE SYSTEM.

IS A 4999 INSTALLED AS PART OF THE SYSTEM?

Y N

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2
7 5
J K

MAP 1477-4

K
4

POWER SUPPLY MAP

PAPER ONLY MAP

PAGE 5 OF 47

013

- SEE IF A 4997 RACK IS PART OF THE SYSTEM.

IS A 4997 RACK USED?

Y N

014

- SEE IF THE PROCESSING UNIT'S AC POWER CABLE IS CONNECTED TO THE CUSTOMER'S AC POWER OUTLET.

IS THE CABLE CONNECTED AS NOTED ABOVE?

Y N

015

- CONNECT THE PROCESSING UNIT'S AC POWER CABLE TO THE CUSTOMER'S AC POWER OUTLET.
- VERIFY THE REPAIR.

6
L M

M

MAP 1477-5

016

(ENTRY POINT AC)

- SWITCH OFF THE PROCESSING UNIT AC POWER SWITCH.
- DISCONNECT THE AC POWER CABLE FROM THE CUSTOMER'S AC POWER OUTLET.
- ON THE AC SETTING, SET THE MULTIMETER TO 25 VOLTS MORE THAN THE AC POWER VOLTAGE'S RATING FOR THE PROCESSING UNIT.

DANGER

ENSURE THAT YOUR BODY DOES NOT TOUCH ANY NOT INSULATED CONDUCTOR.

- MEASURE THE PROCESSING UNIT'S AC INPUT VOLTAGE AT THE CUSTOMER'S AC POWER OUTLET.
- ENSURE THAT THE INDICATED AC VOLTAGE IS APPROXIMATELY THE POWER SUPPLY'S SPECIFIED AC POWER INPUT VOLTAGE.

IS THE VOLTAGE BETWEEN 90 AND 136V OR 180 AND 256V?

Y N

6 6
N P

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MAP 1477-5

L N P
5 5 5

POWER SUPPLY MAP

PAPER ONLY MAP

PAGE 6 OF 47

017

- THE PROBLEM IS IN THE WIRING IN THE CUSTOMER'S BUILDING. HAVE CUSTOMER FIX THE PROBLEM.

- DO NOT CONNECT THE AC PROCESSING UNIT AC POWER CABLE TO THE CUSTOMER'S AC POWER OUTLET.

- ENSURE THE CUSTOMER DOES IT WHEN THE PROBLEM IS REPAIRED.

- VERIFY THE REPAIR.

018

GO TO PAGE 19, STEP 067, ENTRY POINT CR.

019

(ENTRY POINT NS)

ARE THERE OTHER UNITS IN THE 4997?

Y N

020

GO TO PAGE 19, STEP 067, ENTRY POINT CR.

021

- SEE IF THE UNIT(S) IN THE 4997 RACK POWER ON.

DO THE UNIT(S) IN THE 4997 RACK POWER ON?

Y N

1

9

Q R

R

MAP 1477-6

022

- SEE IF THE 4997 CIRCUIT BREAKER IS SWITCHED ON.

IS THE 4997 CIRCUIT BREAKER SWITCHED ON?

Y N

023

- SWITCH OFF ALL UNITS WHICH ARE CONNECTED TO THE 4997 AC POWER OUTLETS.

- SWITCH ON THE 4997 AC POWER CIRCUIT BREAKER.

- SWITCH ON ALL UNITS.

DID THE 4997 CIRCUIT BREAKER SWITCH OFF?

Y N

024

- VERIFY THE REPAIR.

025

- SWITCH OFF ALL UNITS WHICH ARE CONNECTED TO THE 4997 AC POWER OUTLETS.

- DISCONNECT ALL AC POWER CABLE PLUGS FROM THE 4997 AC POWER OUTLETS EXCEPT THE PROCESSING UNIT'S AC POWER CABLE PLUG.

- SWITCH ON THE 4997 AC POWER CIRCUIT BREAKER.

- SWITCH ON THE PROCESSING UNIT'S AC POWER SWITCH.

DID THE 4997 AC POWER CIRCUIT BREAKER SWITCH OFF?

Y N

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ECA41061 PECA23101

1

7 8 7

S T U

MAP 1477-6

U
6

POWER SUPPLY MAP

MAP 1477-7

PAPER ONLY MAP

PAGE 7 OF 47

|
|
|
|
026

THERE IS A SHORT CIRCUIT IN THE POWER CIRCUIT OF ONE OF THE OTHER UNITS WHICH WAS CONNECTED TO THE 4997 AC POWER OUTLET. TO FIND THE UNIT WITH THE SHORT CIRCUIT, CONNECT THE UNITS ONE AT A TIME TO THE 4997 AC POWER OUTLETS UNTIL THE 4997 AC POWER CIRCUIT BREAKER SWITCHES OFF.

CAUTION

- SWITCH OFF EACH UNIT BEFORE CONNECTING ITS AC POWER CABLE TO THE 4997 AC POWER OUTLET.
- SWITCH THE UNIT ON AFTER IT IS CONNECTED.
- AFTER THE DEFECTIVE MACHINE IS IDENTIFIED GO TO THE MAP FOR THAT UNIT.
- IF IT IS NOT AN IBM MACHINE, NOTIFY THE CUSTOMER.

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MAP 1477-7

T
6

POWER SUPPLY MAP

MAP 1477-8

PAPER ONLY MAP

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027

(ENTRY POINT CD)

- SEE THE CHART -->.
- POWER OFF THE PROCESSING UNIT.
- DISCONNECT THE AC POWER CABLE.
- SWITCH ON THE CIRCUIT BREAKER OF THE PROCESSING UNIT.
- SWITCH ON THE PROCESSING UNIT'S AC POWER SWITCH.
- SET THE MULTIMETER TO MEASURE APPROXIMATELY 1K OHMS.
- ASSIGN EACH PIN OF THE PROCESSING UNIT'S AC POWER CABLE PLUG WITH ONE EACH OF THE FOLLOWING NUMBERS: 1, 2 AND 3.
- CONNECT THE TEST LEADS OF THE MULTIMETER TO THE PINS OF THE AC POWER CABLE PLUG AS INDICATED IN THE TABLE.
- SEE THE INDICATED RESISTANCE AT EACH STEP.

STEP	PROCESS UNIT AC POWER CABLE PLUG	PROCESS UNIT AC POWER CABLE PLUG
1	PIN 3	PIN 1
2	PIN 3	PIN 2
3	PIN 1	PIN 2

THERE ARE THREE RESISTANCE READINGS.

- SEE IF TWO OF THE INDICATED RESISTANCES ARE MORE THAN 1K OHMS.
- SEE IF THE OTHER INDICATED RESISTANCE IS MORE THAN 50 OHMS.

ARE ALL THE READINGS AS INDICATED ABOVE?

Y N

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MAP 1477-8

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POWER SUPPLY MAP

MAP 1477-11

PAPER ONLY MAP

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|
|
032

- REMOVE THE FRONT COVER OF THE SWITCH BOX.
- SEE LOGIC PAGE YA450.
- INSPECT THE CONDUCTOR WHICH CONNECTS TERMINAL 2 OF THE AC POWER SWITCH TO TERMINAL C OF THE AC POWER FILTER AND THE CONDUCTOR WHICH CONNECTS TERMINAL 5 OF THE AC POWER SWITCH TO TERMINAL D OF THE AC POWER FILTER.
- INSPECT FOR DAMAGED INSULATION AND THAT THE NOT INSULATED PART OF THESE WIRES DO NOT TOUCH ANY OTHER NOT INSULATED CONDUCTOR.
- ENSURE THAT THEIR CONNECTING TERMINALS DO NOT TOUCH THE SWITCH BOX.

IS THE WIRING CORRECT?

Y N

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033

- EXCHANGE THE CABLE BETWEEN THE AC POWER SWITCH AND THE AC POWER FILTER WITH A NEW ONE. SEE LOGIC PAGE YA450.
- VERIFY THE REPAIR.

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MAP 1477-11

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F
1
2

POWER SUPPLY MAP

MAP 1477-13

PAPER ONLY MAP

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035

- SEE THE CHART -->.
- RECONNECT THE WIRES AT TERMINAL D OF THE AC POWER FILTER AND AT TERMINAL C OF THE AC POWER FILTER.
- INSPECT THE CONNECTING TERMINALS OF THE PROCESSING UNIT'S AC POWER CABLE AT THE FILTER TERMINALS.
- ENSURE THAT THE NOT INSULATED PARTS OF THE CABLE DOES NOT TOUCH ANY OTHER NOT INSULATED CONDUCTOR.
- DISCONNECT THE PROCESSING UNIT'S AC POWER CABLE AT TERMINAL B OF THE AC POWER FILTER AND AT TERMINAL A OF THE AC POWER FILTER.
- SEE LOGIC PAGE YA450.
- CONNECT THE TEST LEADS OF THE MULTIMETER TO THE PINS OF THE AC POWER CABLE PLUG AS INDICATED IN THE CHART.
- NOTE THE INDICATED RESISTANCE AT EACH STEP.

STEP	PROCESS UNIT AC POWER CABLE PLUG	PROCESS UNIT AC POWER CABLE PLUG
1	PIN 3	PIN 1
2	PIN 3	PIN 2
3	PIN 1	PIN 2

ARE ALL OF THE INDICATED RESISTANCES MORE THAN 50K OHMS?

Y N

036

- REMOVE THE PROCESSING UNIT'S AC POWER CABLE AND INSTALL A NEW POWER CABLE.
- VERIFY THE REPAIR.

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MAP 1477-13

A A A POWER SUPPLY MAP
B E G
1 1 1 PAPER ONLY MAP
0 2 3
PAGE 14 OF 47

| | |
| | |
| | 037
| | - REMOVE THE AC POWER FILTER
| | AND INSTALL A NEW AC POWER
| | FILTER.
| | - SEE MIM SECTION CHART AT
| | ENTRY POINT A.
| | - SEE LINE NUMBER ELEVEN
| | (11).
| | - VERIFY THE REPAIR.

| | 038
| | - INSTALL A NEW CABLE BETWEEN
| | THE AC POWER FILTER AND THE
| | AC POWER SWITCH. SEE LOGIC
| | PAGE YA450.
| | - ENSURE THAT THE NOT INSULATED
| | PARTS OF THE CABLE DOES NOT
| | TOUCH ANY OTHER NOT INSULATED
| | CONDUCTOR.
| | - VERIFY THE REPAIR.

| | 039
| | - SEE LOGIC PAGE YA450.
| | - REMOVE THE FRONT COVER OF THE
| | SWITCH BOX.
| | - INSPECT THE CONDUCTOR WHICH
| | CONNECTS TERMINALS 3 AND 6 OF
| | THE AC POWER SWITCH TO THE
| | CONNECTOR P9. CONNECTOR P9
| | GOES TO THE POWER SUPPLY.
| | - INSPECT FOR DAMAGED INSULATION
| | AND ANY NOT INSULATED PART OF
| | THESE WIRES DO NOT TOUCH ANY
| | OTHER NOT INSULATED CONDUCTOR.
| | - INSPECT THAT THEIR CONNECTING
| | TERMINALS DO NOT TOUCH THE
| | SWITCH BOX.

IS THE WIRING CORRECT?

Y N
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| | 040
| | - REPAIR THE DAMAGED WIRES
| | OR REMOVE THE CABLE AND
| | INSTALL A NEW ONE BETWEEN
| | THE AC POWER SWITCH AND
| | CONNECTORS P9 (WHICH
| | CONNECTS TO THE POWER
| | SUPPLY) AND J2 (WHICH
| | CONNECTS TO THE FAN).
| | - VERIFY THE REPAIR.

| | 041
| | - EXCHANGE THE AC POWER
| | SWITCH.
| | - SEE MIM SECTION CHART AT
| | ENTRY POINT A.
| | - SEE LINE NUMBER THREE (3).
| | - VERIFY THE REPAIR.

| | 042
| | - EXCHANGE THE CIRCUIT BREAKER
| | AND THE WIRES CONNECTING IT
| | TO THE "U" TERMINALS ON THE
| | POWER SUPPLY ASSEMBLY FOR A
| | NEW ONE.
| | - SEE MIM SECTION CHART AT
| | ENTRY POINT A.
| | - SEE LINE NUMBER ONE (1).
| | - SEE LOGIC PAGE YA465.

| | 043
| | GO TO PAGE 32, STEP 103,
| | ENTRY POINT P.

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MAP 1477-14

V X POWER SUPPLY MAP
8 9

PAPER ONLY MAP

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- 044
- EXCHANGE THE FAN ASSEMBLY.
- SEE MIM SECTION CHART AT ENTRY POINT A.
- SEE LINE NUMBER FOURTEEN (14).
- VERIFY THE REPAIR.

- 045
- CHECK THE POWER SUPPLY VOLTAGE JUMPER CONFIGURATION.
- SEE MIM SECTION CHART AT ENTRY POINT A.
- SEE LINE NUMBER SEVEN (7).

ARE THE JUMPER CONNECTIONS CORRECT FOR SUPPLY VOLTAGE?

- Y N
- 046
- CHANGE THE JUMPER CONNECTION TO THE SUPPLY VOLTAGE USED FOR THE SYSTEM.
- VERIFY THE REPAIR.

- 047 (ENTRY POINT RL)
- SEE IF THE SURGE RELAY IS SOLDERED INTO THE CARD OR IF IT IS A PLUGGABLE SURGE RELAY.

IS THE SURGE RELAY SOLDERED INTO THE CARD?

Y N
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A A
K L

A MAP 1477-15
L

- 048
- REMOVE THE RELAY FROM THE POWER SUPPLY.
- SEE MIM SECTION CHART AT ENTRY POINT A.
- SEE LINE NUMBER EIGHT (8).
- SET THE MULTIMETER TO THE RX1 SETTING.
- MEASURE THE RESISTANCE OF EACH CONTACT BETWEEN TERMINALS 1 AND 7, TERMINALS 2 AND 8 AND TERMINALS 3 AND 9.

ARE THE RESISTANCES LESS THAN 1 OHM?

- Y N
- 049
- INSTALL A NEW SURGE RELAY.
- SEE MIM SECTION CHART AT ENTRY POINT A.
- SEE LINE NUMBER EIGHT (8).

IF NO REPAIR:
- REPLACE THE POWER SUPPLY.
- VERIFY THE REPAIR.

- 050
- SET THE MULTIMETER TO MEASURE MORE THAN 50K OHMS.
- MEASURE THE RESISTANCE OF EACH CONTACT BETWEEN TERMINALS 4 AND 7, TERMINALS 5 AND 8 AND TERMINALS 6 AND 9.

ARE THE RESISTANCES MORE THAN 50K OHMS?

Y N
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M N

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MAP 1477-15

A A POWER SUPPLY MAP
M N
1 1 PAPER ONLY MAP
5 5
PAGE 16 OF 47

| |
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| 051
| - INSTALL A NEW SURGE RELAY.
| - SEE MIM SECTION CHART AT
| ENTRY POINT A.
| - SEE LINE NUMBER EIGHT (8).
|
| IF NO REPAIR:
| - REPLACE THE POWER SUPPLY.
| - VERIFY THE REPAIR.

052
- MEASURE THE RESISTANCE BETWEEN
TERMINALS A AND B.

THE RESISTANCE SHOULD BE BETWEEN
2.6K AND 4.0K OHMS.

IS THE RESISTANCE CORRECT?
Y N

| 053
| - INSTALL A NEW SURGE RELAY.
| - SEE MIM SECTION CHART AT
| ENTRY POINT A.
| - SEE LINE NUMBER EIGHT (8).
|
| IF NO REPAIR:
| - REPLACE THE POWER SUPPLY.
| - VERIFY THE REPAIR.

A
P

A MAP 1477-16
P

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| |
| 054
| (ENTRY POINT MH)

- CHECK THE POWER SUPPLY
CAPACITORS.
- SET THE MULTIMETER TO THE RX1
SETTING.
- CONNECT THE POSITIVE TEST LEAD
OF THE METER TO THE RIGHT
TERMINAL (+ TERMINAL) OF THE
RIGHT CAPACITOR.
- CONNECT THE NEGATIVE TEST LEAD
OF THE METER TO THE LEFT
TERMINAL (- TERMINAL) OF THE
RIGHT CAPACITOR.
- SEE IF THE INDICATED RESISTANCE
INCREASED FROM APPROXIMATELY
ONE OHM TO APPROXIMATELY 10,000
OHMS.

DID THE INDICATED RESISTANCE
INCREASE?
Y N

| 055
| - REMOVE THE CAPACITOR AND
| INSTALL A NEW ONE. (SEE MIM
| SECTION 4.16.2).
| - REINSTALL THE SURGE RELAY IF
| IT WAS REMOVED.
|
| IF NO REPAIR:
| - REPLACE THE POWER SUPPLY.
| - VERIFY THE REPAIR.

1
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A
Q

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MAP 1477-16

A A POWER SUPPLY MAP
K Q
1 1 PAPER ONLY MAP
5 6 PAGE 17 OF 47

S MAP 1477-17
6

| |
| |
| 056
| - CONNECT THE POSITIVE TEST
| LEAD OF THE METER TO THE
| RIGHT TERMINAL (+ TERMINAL)
| OF THE LEFT CAPACITOR.
| - CONNECT THE NEGATIVE TEST
| LEAD OF THE METER TO THE LEFT
| TERMINAL (- TERMINAL) OF THE
| LEFT CAPACITOR.
| - SEE IF THE INDICATED
| RESISTANCE INCREASED FROM
| APPROXIMATELY ONE OHM TO
| APPROXIMATELY 10,000 OHMS.

| |
| |
| 060
| - SEE IF THE 4997 AC POWER CABLE
| PLUG IS CONNECTED TO THE
| CUSTOMER'S AC POWER OUTLET.

| DID THE INDICATED RESISTANCE
| INCREASE?
| Y N

| IS THE 4997 AC POWER CABLE
| CONNECTED AS NOTED ABOVE?
| Y N

| |
| 057
| - REMOVE THE CAPACITOR AND
| INSTALL A NEW ONE.
| - SEE MIM SECTION 4.16.2).
| - REINSTALL THE SURGE RELAY
| IF IT WAS REMOVED.
| - VERIFY THE REPAIR.

| 061
| - CONNECT THE 4997 AC POWER
| CABLE TO THE CUSTOMER'S AC
| POWER OUTLET.
| - VERIFY THE REPAIR.

| 058
| - EXCHANGE THE POWER SUPPLY FOR
| A NEW ONE.
| - SEE MIM SECTION CHART AT
| ENTRY POINT A.
| - SEE LINE NUMBER SIX (6).
| - VERIFY THE REPAIR.

| 062
| - POWER OFF THE PROCESSING UNIT.
| - DISCONNECT THE AC POWER CABLE
| FROM THE CUSTOMER'S AC POWER
| OUTLET.
| - SET THE MULTIMETER TO 25 VOLTS
| AC MORE THAN THE AC POWER
| VOLTAGE RATING OF THE MACHINE.

DANGER

059
GO TO PAGE 16, STEP 054,
ENTRY POINT MH.

ENSURE THAT YOUR BODY DOES NOT
TOUCH ANY NOT INSULATED
CONDUCTOR.

- MEASURE THE PROCESSING UNIT'S
AC INPUT VOLTAGE AT THE
CUSTOMER'S AC POWER OUTLET.

ENSURE THAT THE INDICATED AC
VOLTAGE IS APPROXIMATELY THE
POWER SUPPLY'S SPECIFIED AC POWER
INPUT VOLTAGE.

IS THERE 90 - 136V OR 180 - 256V?
Y N
| |
| |
| |

1 1 30JAN87 PN6030932
8 8 ECA41061 PECA23101
A A
R S MAP 1477-17

A A
R S
1 1
7 7

POWER SUPPLY MAP

MAP 1477-18

PAPER ONLY MAP

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063

THIS IS A CUSTOMER PROBLEM.

- DO NOT CONNECT THE 4997 AC POWER CABLE TO THE CUSTOMER'S POWER OUTLET UNTIL THERE IS A VOLTAGE READING THAT IS BETWEEN 90 AND 136V OR A READING THAT IS BETWEEN 180 AND 256V.
- BEFORE CONNECTING THE 4997 AC POWER CABLE TO THE CUSTOMER'S AC POWER OUTLET, ENSURE THAT THERE IS NO SHORT CIRCUIT IN THE 4997 AC POWER INPUT CIRCUIT WHICH CAUSED THE CUSTOMER'S AC POWER TO FAIL.

IS THERE A SHORT CIRCUIT IN THE 4997 UNIT?

Y N

064

- CONNECT THE 4997 AC POWER CABLE TO THE CUSTOMER'S AC POWER OUTLET.
- VERIFY THE REPAIR.

065

GO TO MAP 1471, ENTRY POINT A.

066

GO TO MAP 1471, ENTRY POINT A.

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MAP 1477-18

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POWER SUPPLY MAP

MAP 1477-20

PAPER ONLY MAP

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|
|
068

- SEE THE CHART -->.
- DISCONNECT THE PROCESSING UNIT'S POWER SUPPLY AT CONNECTOR P9. SEE LOGIC PAGE YA450 FOR THE LOCATION OF CONNECTOR P9.
- SET THE MULTIMETER TO THE RX1 SETTING.
- CONNECT ONE TEST LEAD OF THE MULTIMETER TO THE PINS OF THE AC POWER CABLE PLUG.
- CONNECT THE OTHER TEST LEAD OF THE MULTIMETER TO THE INDICATED PINS OF THE CONNECTOR P9. P9 IS ON THE CABLE.
- NOTE THE INDICATED RESISTANCE AT EACH STEP.

STEP	PROCESS UNIT AC POWER CABLE CABLE PLUG	P9 ON THE CABLE
1	PIN 1	PIN 1
2	PIN 1	PIN 3
3	PIN 2	PIN 1
4	PIN 2	PIN 3
5	PIN 3	PIN 1
6	PIN 3	PIN 3

IS ONLY ONE RESISTANCE LESS THAN 1 OHM?

Y N

|
|
069

- REMOVE THE POWER SUPPLY.
- INSPECT THE CONDUCTOR WHICH CONNECTS THE CIRCUIT BREAKER TO THE "U" CONNECTORS ON THE POWER SUPPLY. SEE LOGIC PAGE YA465 FOR LOCATION OF THE CONNECTORS "U".
- INSPECT FOR DAMAGED INSULATION AND THAT THE NOT INSULATED PART OF THESE WIRES DO NOT TOUCH ANY OTHER NOT INSULATED CONDUCTOR.

IS THE WIRING CORRECT?

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

2 2 2
2 1 1
A A A
V W X

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MAP 1477-20

A A POWER SUPPLY MAP
W X
2 2 PAPER ONLY MAP
0 0
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MAP 1477-21

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| 070
| - EXCHANGE THE CIRCUIT BREAKER
| AND THE WIRES CONNECTING IT
| TO THE "U" CONNECTORS ON THE
| POWER SUPPLY.
| - SEE MIM SECTION CHART AT
| ENTRY POINT A.
| - SEE LINE NUMBER TWO (2).
| - SEE LOGIC PAGE YA465.
| - VERIFY THE REPAIR.

|
071
- SEE THE CHART -->.
- SET THE MULTIMETER TO THE RX1
SETTING.
- CONNECT ONE TEST LEAD OF THE
MULTIMETER TO THE TERMINALS OF
THE AC CIRCUIT BREAKER.
- CONNECT THE OTHER TEST LEAD OF
THE METER TO THE TERMINALS OF
THE AC CIRCUIT BREAKER.
- NOTE THE INDICATED RESISTANCE
AT EACH STEP.
- SEE LOGIC PAGE YA465.

STEP	A C CIRCUIT BREAKER	A C CIRCUIT BREAKER
1	TERMINAL C	TERMINAL A
2	TERMINAL D	TERMINAL B
3	TERMINAL D	TERMINAL A
4	TERMINAL C	TERMINAL B

ARE TWO OF THE INDICATED
RESISTANCES LESS THAN 1 OHM?

Y N

| |
| 072
| - REMOVE THE AC CIRCUIT BREAKER
| AND THE WIRES CONNECTING IT
| TO THE "U" CONNECTORS ON THE
| POWER SUPPLY.
| - INSTALL A NEW CIRCUIT BREAKER
| ASSEMBLY.
| - SEE MIM SECTION CHART AT
| ENTRY POINT A.
| - SEE LINE NUMBER TEN (10).
| - SEE LOGIC PAGE YA465.
| - VERIFY THE REPAIR.

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MAP 1477-21

A A POWER SUPPLY MAP
V Y
2 2 PAPER ONLY MAP
0 1 PAGE 22 OF 47

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- | 073
- | - EXCHANGE THE POWER SUPPLY FOR A NEW ONE.
- | - SEE MIM SECTION CHART AT ENTRY POINT A.
- | - SEE LINE NUMBER SIX (6).
- | - VERIFY THE REPAIR.

- | 074
- REMOVE THE FRONT COVER OF THE SWITCH BOX.
- INSPECT THE CONDUCTOR WHICH CONNECTS TERMINAL 3 OF THE AC POWER SWITCH TO PIN 1 OF THE CONNECTOR P9.

P9 IS THE CONNECTOR ON THE CABLE, NOT THE POWER SUPPLY.

- INSPECT THE CONDUCTOR WHICH CONNECTS TERMINAL 6 OF THE AC POWER SWITCH TO PIN 3 OF THE CONNECTOR P9.
- INSPECT FOR DAMAGED INSULATION AND THAT THE NOT INSULATED PART OF THE WIRE DOES NOT TOUCH THE SWITCH BOX.

IS THE WIRING CORRECT?

Y N

- | 075
- | - REPAIR THE DAMAGED WIRES OR REMOVE THE CABLE BETWEEN THE AC POWER SWITCH AND THE CONNECTORS P9 AND J2.
- | - SEE LOGIC PAGE YA450.
- | - VERIFY THE REPAIR.

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A
Z

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POWER SUPPLY MAP

MAP 1477-26

PAPER ONLY MAP

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079

- SEE THE CHART -->.
- SET THE MULTIMETER TO THE RX1 SETTING.
- CONNECT ONE TEST LEAD OF THE MULTIMETER TO THE PINS OF THE AC POWER CABLE PLUG.
- CONNECT THE OTHER TEST LEAD OF THE METER TO THE PINS OF THE AC POWER FILTER.
- SEE LOGIC PAGE YA450 FOR LOCATION OF PINS A AND B ON THE FILTER.
- NOTE THE INDICATED RESISTANCE AT EACH STEP.

STEP	PROCESS UNIT AC POWER CABLE PLUG	A C POWER FILTER
1	PIN 1	PIN A
2	PIN 1	PIN B
3	PIN 2	PIN A
4	PIN 2	PIN B
5	PIN 3	PIN A
6	PIN 3	PIN B

ARE TWO OF THE INDICATED RESISTANCES LESS THAN 1 OHM?

Y N

|
| 080

- REMOVE THE PROCESSING UNIT'S AC POWER CABLE.
- INSTALL A NEW POWER CABLE.
- VERIFY THE REPAIR.

|
081

- REMOVE THE AC POWER FILTER.
- INSTALL A NEW AC POWER FILTER.
- SEE MIM SECTION CHART AT ENTRY POINT A.
- SEE LINE NUMBER ELEVEN (11).
- VERIFY THE REPAIR.

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MAP 1477-26

A B B B POWER SUPPLY MAP
T A C E
1 2 2 2 PAPER ONLY MAP
9 3 4 5 PAGE 27 OF 47

J B MAP 1477-27
4 G

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| | | |
| | | 082
| | | - INSTALL NEW WIRES BETWEEN
| | | THE AC POWER SWITCH AND
| | | THE AC FILTER BOX.
| | | - SEE LOGIC PAGE YA450.
| | | - VERIFY THE REPAIR.

| | |
| | |
| | | 087
| | | GO TO PAGE 34, STEP 113,
| | | ENTRY POINT DC.

| | | 083
| | | - EXCHANGE THE AC POWER
| | | SWITCH FOR A NEW ONE.
| | | - SEE MIM SECTION CHART AT
| | | ENTRY POINT A.
| | | - SEE LINE NUMBER THREE (3).
| | | - VERIFY THE REPAIR.

088
- SEE IF THE 4999 IS SWITCHED ON.

| | | 084
| | | CONNECTORS P9 AND J2 ARE ON THE
| | | CABLE.

IS THE 4999 SWITCHED ON?
Y N

| | | - EXCHANGE THE WIRES BETWEEN
| | | THE AC POWER SWITCH AND THE
| | | CONNECTORS P9 AND J2 FOR NEW
| | | WIRES.
| | | - SEE LOGIC PAGE YA450.
| | | - VERIFY THE REPAIR.

| | | 089
| | | - SWITCH ON THE 4999.
| | | - PRESS AND RELEASE THE 4999
| | | RESET SWITCH.
| | | - VERIFY THE REPAIR.

085
- CHECK THE POWER SUPPLY VOLTAGE
JUMPER CONFIGURATION.
- SEE MIM SECTION CHART AT ENTRY
POINT A.
- SEE LINE NUMBER SEVEN (7).

090
- POWER OFF THE PROCESSING UNIT.
- DISCONNECT THE 4999 AC POWER
INPUT CABLE FROM ITS AC POWER
OUTLET.
- DISCONNECT THE PROCESSING
UNIT'S AC POWER CABLE FROM THE
4999 AC POWER OUTLET AND
CONNECT THE PROCESSING UNIT'S
AC POWER CABLE TO THE OUTLET
INTO WHICH THE 4999 AC POWER
CABLE WAS CONNECTED.
- POWER ON THE PROCESSING UNIT.

ARE THE JUMPER CONNECTIONS
CORRECT FOR SUPPLY VOLTAGE?
Y N

IS THE PROCESSING UNIT POWERED
ON?
Y N

| | | 086
| | | - CHANGE THE JUMPER CONNECTION
| | | TO THE SUPPLY VOLTAGE USED
| | | FOR THE SYSTEM.
| | | - VERIFY THE REPAIR.

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H J

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MAP 1477-27

B B POWER SUPPLY MAP
H J
2 2 PAPER ONLY MAP
7 7
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| |
| 091
| - POWER OFF THE PROCESSING
| UNIT.
| - DISCONNECT THE PROCESSING
| UNIT'S AC POWER CABLE FROM
| THE AC POWER OUTLET AND
| CONNECT THE POWER CABLE TO
| THE 4999 AC POWER OUTLET.
| - CONNECT THE 4999 AC POWER
| CABLE TO THE AC POWER OUTLET.
| - SWITCH ON THE 4999.
| - PRESS AND RELEASE THE 4999
| RESET SWITCH.

| IS A 4997 USED?
| Y N

| | 092
| GO TO PAGE 5, STEP 016,
| ENTRY POINT AC.

| | 093
| GO TO PAGE 6, STEP 019,
| ENTRY POINT NS.

| 094
| GO TO MAP 1475, ENTRY POINT A.

E MAP 1477-28
4

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| 095
| - SWITCH OFF THE PROCESSING UNIT
| AC POWER SWITCH.
| - DISCONNECT THE AC POWER CABLE
| FROM THE CUSTOMER'S AC POWER
| OUTLET.
| - ON THE AC SETTING, SET THE
| MULTIMETER TO 25 VOLTS MORE
| THAN THE AC POWER VOLTAGE'S
| RATING FOR THE PROCESSING UNIT.

DANGER

ENSURE THAT YOUR BODY DOES NOT
TOUCH ANY NOT INSULATED
CONDUCTOR.

- MEASURE THE PROCESSING UNIT'S
AC INPUT VOLTAGE AT THE
CUSTOMER'S AC POWER OUTLET.
- ENSURE THAT THE INDICATED AC
VOLTAGE IS APPROXIMATELY THE
POWER SUPPLY'S SPECIFIED AC
POWER INPUT VOLTAGE.

IS THE VOLTAGE BETWEEN 90 AND
136V OR 180 AND 256V?

Y N

- | | 096
| - THE PROBLEM IS IN THE WIRING
| IN THE CUSTOMER'S BUILDING.
| HAVE CUSTOMER FIX THE
| PROBLEM.
| - DO NOT CONNECT THE AC
| PROCESSING UNIT AC POWER
| CABLE TO THE CUSTOMER'S AC
| POWER OUTLET. HAVE THE
| CUSTOMER DO IT WHEN THE
| VOLTAGE PROBLEM IS FIXED.
| - VERIFY THE REPAIR.

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MAP 1477-28

B
K
2
8

POWER SUPPLY MAP

MAP 1477-29

PAPER ONLY MAP

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|
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097

- EXCHANGE THE POWER SUPPLY FOR A NEW ONE.
- SEE MIM SECTION CHART AT ENTRY POINT A.
- SEE LINE NUMBER SIX (6).
- VERIFY THE REPAIR.

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MAP 1477-29

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POWER SUPPLY MAP

MAP 1477-30

PAPER ONLY MAP

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098

(ENTRY POINT FN)

THERE IS A FAN PROBLEM.

- SEE THE CHART -->.
- POWER OFF THE PROCESSING UNIT.
- DISCONNECT PROCESSING UNIT'S AC POWER CABLE FROM THE AC POWER OUTLET.
- REMOVE PROCESSING UNIT FROM RACK.
- REMOVE COVER THAT IS ON TOP OF PROCESSING UNIT'S POWER SUPPLY.
- SET MULTIMETER TO RX1 SETTING.
- DISCONNECT FAN CONNECTOR P2.
- SEE MIM SECTION CHART AT ENTRY POINT A.
- SEE MIM SECTION CHART AT ENTRY POINT A.
- SEE LINE NUMBER ONE (1).
- SEE THE LOCATION OF CONNECTOR P2. SEE EACH PIN OF THE AC POWER CABLE PLUG WITH ONE EACH OF NUMBERS 1, 2 AND 3.
- SWITCH ON THE AC POWER SWITCH. ENSURE THAT THE CIRCUIT BREAKER IS SWITCHED ON.
- CONNECT ONE TEST LEAD OF THE MULTIMETER TO THE AC POWER CABLE PLUG.
- CONNECT THE OTHER TEST LEAD OF THE METER TO CONNECTOR J2, LOCATED ON MODULE NOT ON THE FAN ASSEMBLY.
- NOTE THE INDICATED RESISTANCE AT EACH STEP.

STEP	PROCESS UNIT AC POWER CABLE	CONNECTOR J2 ON MODULE
1	PIN 1	PIN 1
2	PIN 1	PIN 2
3	PIN 1	PIN 3

IS ONE OF THESE RESISTANCES LESS THAN ONE OHM?

Y N
| |
| |
| |

3 3
1 1
B B
L M

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MAP 1477-30

B B POWER SUPPLY MAP
L M
3 3 PAPER ONLY MAP
0 0
PAGE 31 OF 47

MAP 1477-31

| |
| |
| 099
| GO TO PAGE 32, STEP 103,
| ENTRY POINT P.

100
- SEE THE CHART -->.
- REPEAT THE TEST FOR THE PIN
NUMBERS IN THE CHART.

STEP	PROCESS UNIT AC POWER CABLE	CONNECTOR J2 ON MODULE
1	PIN 2	PIN 1
2	PIN 2	PIN 2
3	PIN 2	PIN 3

IS ONE OF THESE RESISTANCES LESS
THAN ONE OHM?

Y N
|
| 101
| GO TO PAGE 32, STEP 103,
| ENTRY POINT P.

102
- SEE THE CHART -->.
- REPEAT THE TEST FOR THE PIN
NUMBERS IN THE CHART.

STEP	PROCESS UNIT AC POWER CABLE	CONNECTOR J2 ON MODULE.
1	PIN 3	PIN 1
2	PIN 3	PIN 2
3	PIN 3	PIN 3

IS ONE OF THESE RESISTANCES LESS
THAN ONE OHM?

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

3 3
4 2
B B
N P

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MAP 1477-31

B
P
3
1

POWER SUPPLY MAP

MAP 1477-32

PAPER ONLY MAP

PAGE 32 OF 47

103
(ENTRY POINT P)

- SEE THE CHART -->.
- SET THE MULTIMETER TO THE RX1 SETTING.
- DISCONNECT CONNECTOR P9 WHICH IS ON THE POWER SUPPLY CARD.
- SEE MIM SECTION CHART AT ENTRY POINT A.
- SEE LINE NUMBER ONE (1).
- SEE LOGIC PAGE YA450 FOR THE LOCATION OF CONNECTOR P9.
- CONNECT ONE TEST LEAD OF THE MULTIMETER TO THE CONNECTOR J2 LOCATED ON THE MODULE NOT ON THE FAN ASSEMBLY.
- CONNECT THE OTHER TEST LEAD OF THE MULTIMETER TO CONNECTOR P9.
- NOTE THE INDICATED RESISTANCE AT EACH STEP.

STEP	CONNECTOR P9 ON POWER SUPPLY CABLE	CONNECTOR J2 ON MODULE
1	PIN 6	PIN 1
2	PIN 6	PIN 2
3	PIN 6	PIN 3
4	PIN 4	PIN 1
5	PIN 4	PIN 2
6	PIN 4	PIN 3

ARE TWO OF THE RESISTANCES LESS THAN ONE OHM?

Y N

104

P9 AND J2 ARE ON THE CABLE.

- EXCHANGE THE CABLE THAT CONNECTS THE AC POWER SWITCH TO THE CONNECTORS P9 AND J2 FOR A NEW ONE.
- VERIFY THE REPAIR.

3
3
B
Q

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MAP 1477-32

B POWER SUPPLY MAP
 Q
 3 PAPER ONLY MAP
 2
 PAGE 33 OF 47

MAP 1477-33

105

- REMOVE THE POWER SUPPLY.

INSPECT THE CONDUCTOR WHICH CONNECTS THE CIRCUIT BREAKER TO THE "U" CONNECTORS ON THE POWER SUPPLY. SEE LOGIC PAGE YA465 FOR LOCATION OF THE CONNECTORS "U". INSPECT FOR DAMAGED INSULATION AND THE NOT INSULATED PART OF THESE WIRES DO NOT TOUCH ANY OTHER NOT INSULATED CONDUCTOR.

IS THE WIRING CORRECT?

Y N

106

- EXCHANGE THE CIRCUIT BREAKER AND THE WIRES CONNECTING IT TO THE "U" CONNECTORS ON THE POWER SUPPLY. SEE LOGIC PAGE YA465.
 - VERIFY THE REPAIR.

107

- SEE THE CHART -->.
 - SET THE MULTIMETER TO THE RX1 SETTING.
 - CONNECT ONE TEST LEAD OF THE MULTIMETER TO THE PINS OF THE AC CIRCUIT BREAKER.
 - CONNECT THE OTHER TEST LEAD OF THE METER TO THE TERMINALS OF THE AC CIRCUIT BREAKER.
 - NOTE THE INDICATED RESISTANCE AT EACH STEP.

STEP	A C CIRCUIT BREAKER	A C CIRCUIT BREAKER
1	PIN C	PIN A
2	PIN D	PIN B
3	PIN D	PIN A
4	PIN C	PIN B

ARE TWO OF THE INDICATED RESISTANCES LESS THAN 1 OHM?

Y N
 | |
 | |
 | |

3 3
 4 4
 B B
 R S

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MAP 1477-33

B B B B POWER SUPPLY MAP
3 N R S
3 3 3 PAPER ONLY MAP
1 3 3
PAGE 34 OF 47

108

- REMOVE THE AC CIRCUIT BREAKER AND THE WIRES CONNECTING IT TO THE "U" CONNECTORS ON THE POWER SUPPLY.
- INSTALL A NEW CIRCUIT BREAKER ASSEMBLY.
- SEE MIM SECTION CHART AT ENTRY POINT A.
- SEE LINE NUMBER TEN (10).
- SEE LOGIC PAGE YA465.
- VERIFY THE REPAIR.

109

- EXCHANGE THE POWER SUPPLY FOR A NEW ONE.
- SEE MIM SECTION CHART AT ENTRY POINT A.
- SEE LINE NUMBER SIX (6).
- VERIFY THE REPAIR.

110

- EXCHANGE THE FAN ASSEMBLY FOR A NEW ONE.
- SEE MIM SECTION CHART AT ENTRY POINT A.
- SEE LINE NUMBER FOURTEEN (14).
- VERIFY THE REPAIR.

111

THE FAN IS RUNNING.

- POWER OFF THE PROCESSING UNIT.
- WAIT 15 SECONDS.
- POWER ON THE PROCESSING UNIT.
- SEE IF THE POWER ON LED IS ON.

IS THE POWER ON LED ON?

Y N

| |

| |

| |

| |

4 |

1 |

B B

T U

B
U

MAP 1477-34

|

|

|

|

112

- SET THE MULTIMETER TO AT LEAST THE 5VDC SCALE.
- PLACE THE BLACK TEST LEAD ON TEST POINT T4D10.
- PLACE THE OTHER TEST LEAD ON THE TEST POINT T4B08.
- SEE MIM SECTION CHART AT ENTRY POINT A.
- SEE LINE NUMBER FIVE (5).

IF THERE IS +5VDC, THE VOLTAGE IS GOOD.

IS THE +5VDC CORRECT?

Y N

|

| 113

| (ENTRY POINT DC)

|

| THERE IS A DC POWER PROBLEM.

|

- CHECK THE 5 VOLT INTERNAL SUPPLY LEVEL BY PLACING ONE TEST LEAD OF THE MULTIMETER ON THE PIN T4B13 ON THE BACKBOARD.
- PLACE THE BLACK LEAD OF THE MULTIMETER ON PIN T4D06.

IS THE +5VDC CORRECT?

Y N

|

| 114

- EXCHANGE THE POWER SUPPLY FOR A NEW ONE.
- SEE MIM SECTION CHART AT ENTRY POINT A.
- SEE LINE NUMBER SIX (6).
- VERIFY THE REPAIR.

|

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|

|

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4 3

0 5

B B

V W

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MAP 1477-34

B
W
3
4

POWER SUPPLY MAP

MAP 1477-35

PAPER ONLY MAP

PAGE 35 OF 47

115
(ENTRY POINT J)

- SEE THE CHART -->.

THE CHART SHOWS TWO (2) FAILURE TEST POINTS AND THREE (3) FAILURE CONDITIONS THAT COULD OCCUR. EACH GROUP OF TEST POINTS INDICATES A FAILURE CONDITION.

- PLACE THE BLACK LEAD OF THE MULTIMETER ON PIN T4D11.
- PLACE THE OTHER TEST LEAD OF THE MULTIMETER ON THE TEST POINTS INDICATED IN THE CHART.
- SET THE MULTIMETER TO MEASURE +5VDC.

FAILURE	FAILURE LEVELS AT TEST POINTS	
	PORN T4B04	THERMAL FAIL T4B02 NOT
1	LOW	HIGH
2	LOW	LOW
3	HIGH	HIGH

- HIGH LEVEL = 3.5 - 5.5 VDC
- LOW LEVEL = LESS THAN 1 VDC
- SEE MIM SECTION CHART AT ENTRY POINT A.
- SEE LINE NUMBER FIVE (5).

DOES CONDITION '1' MATCH YOUR SYMPTOMS?

Y N

116

- SEE IF CONDITION '2' MATCHES YOUR SYMPTOMS.

DOES CONDITION '2' MATCH YOUR SYMPTOMS?

Y N

117

- SEE IF CONDITION '3' MATCHES YOUR SYMPTOMS.

DOES CONDITION '3' MATCH YOUR SYMPTOMS?

Y N

3 3 3 3
7 7 6 6
B B B C
X Y Z A

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MAP 1477-35

B C POWER SUPPLY MAP
Z A
3 3 PAPER ONLY MAP
5 5
PAGE 36 OF 47

118
- EXCHANGE THE POWER SUPPLY FOR
A NEW ONE.
- SEE MIM SECTION CHART AT
ENTRY POINT A.
- SEE LINE NUMBER SIX (6).
- TEST AGAIN.

IS THE ORIGINAL POWER SUPPLY
PROBLEM STILL PRESENT?

Y N

119
- VERIFY THE REPAIR.

120
GO TO PAGE 35, STEP 115,
ENTRY POINT J.

121
- ENSURE THE POWER SUPPLY IS
LOADED:
- MEASURE THE OUTPUT VOLTAGE
LEVELS ON THE BACKBOARD.
- SEE MIM SECTION CHART AT ENTRY
POINT A.
- SEE LINE NUMBER FIVE (5).

IS ONE OR MORE OF THESE VOLTAGES
MISSING?

Y N

3
7
C C
B C

C MAP 1477-36
C

122
- POWER OFF THE PROCESSING UNIT.
- POWER ON THE PROCESSING UNIT.
- PLACE THE BLACK TEST LEAD ON
PIN T4D11.
- PLACE THE OTHER TEST LEAD OF
THE MULTIMETER ON PIN T4B04.
- A READING OF 3.5 TO 5.5VDC
INDICATES A HIGH LEVEL.

DID THE PORN TEST POINT GO TO A
HIGH LEVEL?

Y N

123
- SEE IF A BATTERY BACKUP UNIT
(4999) IS USED.

IS THE BATTERY BACKUP UNIT
(4999) USED?

Y N

124
GO TO PAGE 37, STEP 133,
ENTRY POINT IS.

125
- SET THE MULTIMETER TO THE
10VDC SCALE.
- PLACE THE BLACK LEAD ON PIN
T4D11.
- PLACE THE OTHER TEST LEAD ON
T4B10.

IS THERE +5VDC?

Y N

126
GO TO PAGE 37, STEP 133,
ENTRY POINT IS.

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3 3
7 7 ECA41061 PECA23101
C C
D E MAP 1477-36

B B C C C POWER SUPPLY MAP
X Y B D E
3 3 3 3 3 PAPER ONLY MAP
5 5 6 6 6

PAGE 37 OF 47

127
GO TO MAP 1475,
ENTRY POINT A.

128
GO TO STEP 133,
ENTRY POINT IS.

129
- EXCHANGE THE POWER SUPPLY
FOR A NEW ONE.
- SEE MIM SECTION CHART AT
ENTRY POINT A.
- SEE LINE NUMBER SIX (6).
- VERIFY THE REPAIR.

130
GO TO PAGE 41, STEP 158,
ENTRY POINT K.

131
CONDITION '1' (PORN IS AT A LOW
VTL VOLTAGE LEVEL) INDICATES THE
POWER SUPPLY SWITCHED OFF BECAUSE
OF A PRIMARY OVERCURRENT,
UNDERVOLTAGE OR A PROBLEM ON ONE
OF THE OUTPUT VOLTAGE LEVELS.

- POWER OFF THE PROCESSING UNIT.
- POWER ON THE PROCESSING UNIT.
- PLACE THE BLACK TEST LEAD ON
PIN T4D11.
- PLACE THE OTHER TEST LEAD OF
THE MULTIMETER ON PIN T4B04.

DID THE PORN TEST POINT GO TO A
HIGH LEVEL?

Y N

4 |
0 |
C C
F G

C
G

MAP 1477-37

132

- SEE IF A BATTERY BACKUP UNIT
(4999) IS USED.

IS A BATTERY BACKUP UNIT (4999)
USED?

Y N

133

(ENTRY POINT IS)

- POWER OFF THE PROCESSING
UNIT.

- SEE THE LOCATION OF THE
PROCESSING UNIT CARD(S).

- UNSEAT THE PROCESSING UNIT
CARD(S).

- POWER ON THE PROCESSING UNIT.

THE POWER SUPPLY WILL OPERATE
WITH NO CURRENT USING DEVICES
CONNECTED TO IT'S OUTPUTS.

DID THE PORN FAILURE TEST POINT
GO TO A HIGH LEVEL?

Y N

3 3 3
9 8 8
C C C
H J K

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MAP 1477-37

C
K
3
7

POWER SUPPLY MAP

PAPER ONLY MAP

PAGE 38 OF 47

134

- POWER OFF THE PROCESSING UNIT.
- SEE MIM SECTION CHART AT ENTRY POINT A.
- SEE LINE NUMBER SIX (6).
- PULL THE POWER SUPPLY OUT APPROXIMATELY ONE (1) INCH TO DISCONNECT IT FROM THE PROCESSING UNIT'S BACK BOARD.
- SET THE MULTIMETER TO THE RX10K SETTING.
- CONNECT ONE TEST LEAD ON THE GROUND PIN, T4D11.
- CONNECT THE OTHER TEST LEAD ON EACH OF THE VOLTAGE LEVEL TEST POINTS ON THE BACKBOARD.
- SEE LOGIC PAGE YA455 FOR THE LOCATION OF THE FOLLOWING TEST POINTS:

+8.5VDC, +5VDC, -5VDC, +12VDC AND -12VDC.

- KEEP THE TEST LEAD ON THE GROUND PIN AS YOU CONNECT THE OTHER TEST LEAD TO THE OTHER VOLTAGE LEVELS.
- NOTE THE INDICATED RESISTANCE EACH TIME.

ARE ALL OF THE RESISTANCES MORE THAN 50K OHMS?

Y N

135

- SEE IF ANY PINS ARE TOUCHING OTHER PINS ON THE BACKBOARD.

ARE ANY PINS TOUCHING OTHER PINS ON THE BACKBOARD?

Y N

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|
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|
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|
|

C C C
L M N

C C C C
J L M N
3
7

MAP 1477-38

136

- EXCHANGE THE BACKBOARD.
- VERIFY THE REPAIR.

137

- REPAIR OR EXCHANGE THE BACKBOARD.
- VERIFY THE REPAIR.

138

GO TO PAGE 15, STEP 047, ENTRY POINT RL.

139

- INSERT THE REMOVED CARD(S) ONE AT A TIME.
- POWER UP AFTER EACH CARD IS INSERTED.
- CHECK THE FAILURE TEST POINTS.
- POWER DOWN BEFORE INSERTING THE NEXT CARD.

CONTINUE THIS PROCEDURE UNTIL ONE OR MORE OF THE FAILURE TEST POINTS GO TO A LOW LEVEL.

IS THE ORIGINAL POWER SUPPLY PROBLEM STILL PRESENT?

Y N

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|
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3 3
9 9
C C
P Q

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MAP 1477-38

C C POWER SUPPLY MAP
P Q
3 3 PAPER ONLY MAP
8 8
PAGE 39 OF 47

140

- REMOVE THE FAILING CARD(S)
AND INSTALL GOOD ONE(S).

NOTE:

IF, AFTER GOOD CARDS ARE
INSTALLED, THE POWER SUPPLY
STILL HAS THE SAME PROBLEM,
INSTALL A NEW POWER SUPPLY.

- SEE MIM SECTION CHART AT
ENTRY POINT A.

- SEE LINE NUMBER SIX (6).

- VERIFY THE REPAIR.

141

- POWER OFF THE PROCESSING UNIT.
- WAIT 2 MINUTES THEN REMOVE THE
POWER SUPPLY.

- ENSURE THAT THE WIRES CONNECTED
TO THE CAPACITORS ARE NOT
DAMAGED.

ARE THE WIRES DAMAGED?

Y N

142

- ENSURE THAT ALL THE CAPACITOR
SCREWS ARE TIGHT.

ARE THE CAPACITOR SCREWS TIGHT?

Y N

C C C
R S T

C C C C MAP 1477-39
H R S T
3
7

143

- TIGHTEN THE SCREWS.

IF NO REPAIR:

- EXCHANGE THE BACKBOARD.

- SEE MIM SECTION CHART AT
ENTRY POINT A.

- SEE LINE NUMBER THIRTEEN
(13).

- VERIFY THE REPAIR.

144

- EXCHANGE THE BACKBOARD.

- SEE MIM SECTION CHART AT
ENTRY POINT A.

- SEE LINE NUMBER THIRTEEN
(13).

- VERIFY THE REPAIR.

145

- EXCHANGE THE POWER SUPPLY FOR
A NEW ONE.

- SEE MIM SECTION CHART AT
ENTRY POINT A.

- SEE LINE NUMBER SIX (6).

- VERIFY THE REPAIR.

146

- SET THE MULTIMETER TO THE 10VDC
SCALE.

- PLACE THE BLACK LEAD ON PIN
T4D11.

- PLACE THE OTHER TEST LEAD ON
T4B10.

IS THERE +5VDC?

Y N

147

GO TO PAGE 37, STEP 133,
ENTRY POINT IS.

4
0
C
U

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MAP 1477-39

B C C POWER SUPPLY MAP
V F U
3 3 3 PAPER ONLY MAP
4 7 9
PAGE 40 OF 47

| | |
| | |
| | 148
| | GO TO MAP 1475,
| | ENTRY POINT A.
| |
| 149
| GO TO PAGE 37, STEP 133,
| ENTRY POINT IS.
|
150
- CHECK FOR VOLTAGE ACROSS THE
LED AT THE BACK OF THE CONSOLE.

A VOLTAGE HIGHER THAN TWO (2) VDC
INDICATES A BAD LED.

IS THE VOLTAGE HIGHER THAN TWO
(2) VDC?
Y N

| 151
| - TEST THE CABLE CONNECTING THE
| BACKBOARD TO THE LED.
| - SEE IF THE BLACK WIRE OF THE
| CABLE IS CONNECTED TO THE PIN
| T4D08 ON THE BACKBOARD.
| - SEE IF THE OTHER WIRE IS
| CONNECTED TO PIN T4B08 ON THE
| BACKBOARD.
| - ENSURE THERE IS NO DAMAGED
| INSULATION.
| - TEST BOTH ENDS OF THE CABLE
| FOR CONTINUITY. THIS CABLE
| GOES FROM THE BACKBOARD TO A
| CONNECTOR AND THEN CONTINUES
| TO THE POWER ON LED. SEE
| LOGIC PAGES PAXXX.

IS THE CABLE CORRECT?

Y N

C C C
V W X

C C C MAP 1477-40
V W X

	152
	- EXCHANGE THE PORTION OF THE
	CABLE THAT IS DAMAGED.
	- VERIFY THE REPAIR.
153	
GO TO PAGE 34, STEP 113,	
ENTRY POINT DC.	
154

IS THE MACHINE A 4959?
Y N

| 155
| - EXCHANGE THE BASIC CONSOLE.
| - SEE MIM SECTION CHART AT
| ENTRY POINT A.
| - SEE LINE NUMBER FOUR (4).
| - VERIFY THE REPAIR.
|

156
- EXCHANGE THE +5V CARD.
- SEE MIM SECTION CHART AT ENTRY
POINT A.
- SEE LINE NUMBER FOUR (4).
- VERIFY THE REPAIR.

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MAP 1477-40

C D POWER SUPPLY MAP
Y A
4 4 PAPER ONLY MAP
1 1
PAGE 42 OF 47

MAP 1477-42

| |
| |
| 166
| - CLEAN DUST FROM THE
| THERMISTORS. ENSURE THAT THE
| THERMISTOR TR1 IS IN AN
| UPRIGHT POSITION. SEE LOGIC
| PAGE YA455.
| - VERIFY THE REPAIR.

167
- POWER OFF THE PROCESSING UNIT.
- POWER ON THE PROCESSING UNIT.
- SEE MIM SECTION CHART AT ENTRY
POINT A.
- SEE LINE NUMBER FIVE (5).
- CHECK THE FOLLOWING OUTPUT
VOLTAGES ON THE BACKPANEL.

+ 5 VDC - 5 VDC
+12 VDC -12 VDC
+ 8.5 VDC

ARE THE VOLTAGES CORRECT AS NOTED
ABOVE?

Y N

| 168
| GO TO PAGE 35, STEP 115,
| ENTRY POINT J.

4
3
D
B

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MAP 1477-42

D
B
4
2

POWER SUPPLY MAP

PAPER ONLY MAP

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169

- SEE THE NOTE -->
- SEE IF PTWN (POWER THERMAL WARNING NOT) IS AT A POSITIVE VTL LEVEL (3.5 - 5.5 VOLTS DC).
- POWER ON THE PROCESSING UNIT.
- MEASURE THE TEST POINT WITH A MULTIMETER ON THE 'T' COLUMN OF THE LOGIC BOARD.
- PLACE THE BLACK TEST LEAD ON THE PIN T4D11.
- PLACE THE OTHER TEST LEAD OF THE MULTIMETER ON T4B05.
- T4B05 IS THE PTWN TEST POINT.

'PTWN AND PORN' (POWER THERMAL WARNING NOT AND POWER ON RESET NOT) ARE THE ONLY OUTPUT SIGNALS TO THE PROCESSING UNIT.

PTWN - POWER THERMAL WARNING NOT - DOWN LEVEL - INFORMS THE PROCESSING UNIT THAT THE POWER SUPPLY WILL SWITCH OFF IN 20 MILLISECONDS OR MORE.

DURING NORMAL OPERATION THE CORRECT OUTPUT SIGNAL IS:

- PTWN (POWER THERMAL WARNING NOT) = VTL UP (POSITIVE) LEVEL (3.5 VOLTS TO 5.5 VOLTS DC).
- SEE MIM SECTION CHART AT ENTRY POINT A.
- SEE LINE NUMBER FIVE (5).

IS PTWN AT A POSITIVE VTL LEVEL (3.5 - 5.5 VOLTS DC)?

Y N

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170

|

IS THE MACHINE A 4959?

Y N

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4 4 4
5 5 4
D D D
C D E

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MAP 1477-43

D POWER SUPPLY MAP
E
4 PAPER ONLY MAP
3
PAGE 44 OF 47

- 171
- POWER OFF THE PROCESSING UNIT.
 - SEE THE LOCATION OF THE PROCESSOR CARD(S).
 - REMOVE THE CARD(S) FROM THE PROCESSING UNIT'S BACKBOARD.
 - POWER ON THE PROCESSING UNIT.

DID THE PTWN LEVEL REMAIN LOW?
Y N

172
THE PROBLEM IS THE CARD(S) THAT WAS REMOVED FROM THE PROCESSING UNIT.

- POWER OFF THE PROCESSING UNIT.
- REINSERT A CARD.
- POWER ON THE PROCESSING UNIT.

DID THE PTWN LEVEL GO TO A LOW LEVEL?
Y N

173
THE CARD THAT WAS NOT REINSERTED INTO THE PROCESSING UNIT IS THE FAILING CARD.

- EXCHANGE THIS CARD.
- VERIFY THE REPAIR.

174
THIS IS THE FAILING CARD.

- EXCHANGE THE FAILING CARD FOR A NEW CARD.
- VERIFY THE REPAIR.

4
5
D
F

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D D D
C D F
4 4 4
3 3 4

POWER SUPPLY MAP

MAP 1477-45

PAPER ONLY MAP

PAGE 45 OF 47

| | |

| | 175

- | | - EXCHANGE THE POWER SUPPLY FOR A NEW ONE.
- | | - SEE MIM SECTION CHART AT ENTRY POINT A.
- | | - SEE LINE NUMBER SIX (6).
- | | - VERIFY THE REPAIR.

| 176

- | - EXCHANGE THE POWER SUPPLY FOR A NEW ONE.
- | - SEE MIM SECTION CHART AT ENTRY POINT A.
- | - SEE LINE NUMBER SIX (6).
- | - VERIFY THE REPAIR.

177

- SEE THE NOTE -->
- SEE IF PORN (POWER ON RESET NOT) IS AT A POSITIVE VTL LEVEL (3.5 - 5.5 VOLTS DC).
- POWER ON THE PROCESSING UNIT.
- MEASURE THE TEST POINT WITH A MULTIMETER ON THE 'T' COLUMN OF THE LOGIC BOARD.
- PLACE THE BLACK TEST LEAD ON THE PIN T4D11.
- PLACE THE OTHER TEST LEAD OF THE MULTIMETER ON T4B04.

T4B04 IS THE PORN TEST POINT.

IS PORN AT A POSITIVE VTL LEVEL (3.5 - 5.5 VOLTS DC)?

Y N

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| |
| |
| |

4 4
7 6
D D
G H

PORN (POWER ON RESET NOT - UP LEVEL - INFORMS THE PROCESSING UNIT THAT THE POWER SUPPLY IS UP AND GOOD.

DURING NORMAL OPERATION THE CORRECT OUTPUT SIGNAL IS:

PORN (POWER ON RESET NOT) = VTL UP (POSITIVE) LEVEL (3.5 VOLTS TO 5.5 VOLTS DC).

- SEE MIM SECTION CHART AT ENTRY POINT A.
- SEE LINE NUMBER FIVE (5).

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MAP 1477-45

D
H
4
5

POWER SUPPLY MAP

PAPER ONLY MAP

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178

- POWER OFF THE PROCESSING UNIT.
- SEE THE LOCATION OF THE PROCESSING UNIT CARD(S).
- REMOVE THE CARD(S) FROM THE PROCESSING UNIT'S BACKBOARD.
- POWER ON THE PROCESSING UNIT.

DID THE PORN LEVEL REMAIN LOW?

Y N

179

PROBLEM IS ONE OF THE CARDS REMOVED FROM THE PROCESSING UNIT.

- POWER OFF THE PROCESSING UNIT.
- INSERT A REMOVED CARD.
- POWER ON THE PROCESSING UNIT.

DID THE PORN LEVEL REMAIN LOW?

Y N

4
7

D D D
J K L

D D
K L

MAP 1477-46

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|
|
|

180

- POWER OFF THE PROCESSING UNIT.
- CONTINUE TO INSERT THE REMOVED CARDS UNTIL ALL CARDS ARE INSERTED.
- SWITCH ON THE POWER AFTER EACH CARD IS INSERTED.
- TEST EACH TIME TO SEE IF PORN IS AT A HIGH LEVEL.
- ISOLATE TO THE FAILING CARD(S).
- EXCHANGE THE FAILING CARD(S) FOR NEW CARD(S) IF PORN IS AT A HIGH LEVEL AFTER THE LAST CARD IS INSTALLED.
- VERIFY THE REPAIR.

181

- POWER OFF THE PROCESSING UNIT.
- REMOVE THE CARD THAT WAS REINSERTED.
- EXCHANGE THIS FAILING CARD FOR A NEW CARD.
- CONTINUE TO INSERT THE REMOVED CARDS UNTIL ALL CARDS ARE INSERTED.
- SWITCH ON THE POWER AFTER EACH CARD IS INSERTED.
- TEST EACH TIME TO SEE IF PORN IS AT A HIGH LEVEL.
- ISOLATE TO THE FAILING CARD(S).
- EXCHANGE THE FAILING CARD(S) FOR NEW CARD(S) IF PORN IS AT A HIGH LEVEL AFTER THE LAST CARD IS INSTALLED.
- VERIFY THE REPAIR.

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MAP 1477-46

D D POWER SUPPLY MAP
G J
4 4 PAPER ONLY MAP
5 6
PAGE 47 OF 47

MAP 1477-47

| |
| |
| 182
| - EXCHANGE THE POWER SUPPLY FOR
| A NEW ONE.
| - SEE MIM SECTION CHART AT
| ENTRY POINT A.
| - SEE LINE NUMBER SIX (6).
| - VERIFY THE REPAIR.
|
183
- SEE IF THE CABLES FROM THE
CONSOLE TO THE PROCESSING UNIT
CARD ARE SEATED IN THE CARD.

ARE THE CABLES SEATED AS NOTED?

Y N

| |
| 184
| - SEAT THE CABLES.
| - VERIFY THE REPAIR.
|

185
- SEE IF THE PROBLEM IS REPAIRED.

IS THE PROBLEM REPAIRED?

Y N

| |
| 186
| - SEE IF A 4999 IS PART OF THE
| SYSTEM.

IS A 4999 PART OF THE SYSTEM?

Y N

| |
| 187
| GO TO MAP 0070,
| ENTRY POINT A.
|

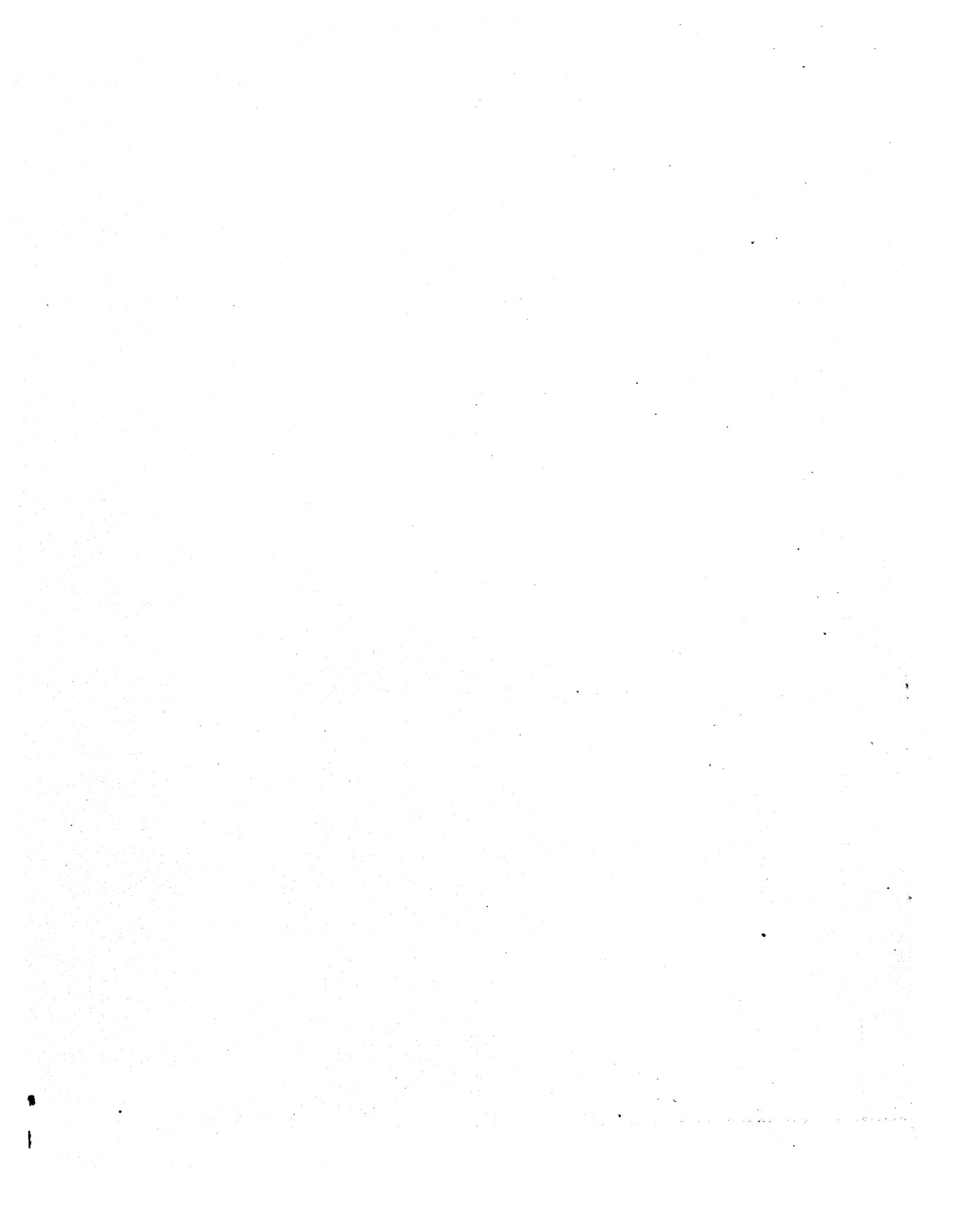
| 188
| GO TO MAP 1475, ENTRY POINT A.
|

189
GOOD END THIS MAP.

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MAP 1477-47



4967 DISK POWER

MAP 1481-1

PAPER ONLY MAP

PAGE 1 OF 38

ENTRY POINTS

FROM		ENTER THIS MAP		

MAP		ENTRY	STEP	
NUMBER		POINT	NUMBER	

XXXX		B	3	005
XXXX		C	8	020
XXXX		D	16	047
XXXX		E	25	074
XXXX		F	30	085
XXXX		G	34	095
XXXX		H	36	099
1470		A	2	001

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MAP 1481-1

001

(ENTRY POINT A)

- SEE THE CHART FOR A BETTER ENTRY POINT TO MAP IF PROBLEM AREA IS KNOWN. FOR PAGE AND STEP NUMBER OF ENTRY POINT SEE "ENTRY POINTS" CHART ON PAGE ONE --->.
- SEE THE NOTE**--->.
- OBSERVE ALL SAFETY PROCEDURES.
- ENSURE THAT THE UNIT'S ALTERNATING CURRENT (AC) POWER CABLE IS CONNECTED TO THE CUSTOMER AC POWER OUTLET OR TO THE 4997'S POWER OUTLET.
- ENSURE THAT THE CUSTOMER'S AC POWER OUTLET OR THE 4997'S CIRCUIT BREAKER IS SWITCHED ON.
- SWITCH ON ALL SERIES/1 UNITS.

ENTRY POINTS

ENTRY POINT	PROBLEM AREA
A	
B	AC OPEN
C	AC SHORT
D	DC SHORT OR A BAD POWER SUPPLY
E	THERMAL FAILURE OR BAD "POWER ON" LED
F	DC OPEN
G	DC OPEN ON A-1 BOARD
H	DC OPEN (+36V OR -36V)

 ** NOTE: A THERMAL CONDITION *
 * EXISTS WHEN THE POWER ON LED *
 * IS OFF AND THE "READY" LED IS *
 * ON. IF THIS CONDITION EXISTS *
 * DO NOT SWITCH THE UNIT OFF. *
 * ANSWER NO TO QUESTION 1 AND *
 * CONTINUE. *
 ** NOTE: THE POWER SUPPLY COVER *
 * MUST BE IN PLACE WHEN THE *
 * UNIT IS SWITCHED ON OR A *
 * THERMAL CONDITION WILL OCCUR. *

(STEP 001 CONTINUES)

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(STEP 001 CONTINUED)

- DID THE "POWER ON" LED COME ON
WITHIN 90 SECONDS AND REMAIN ON?

Y N

002

IS THE "READY" LED ON?

Y N

003

- IS THE FAN TURNING?

Y N

004

- DID ANY CIRCUIT BREAKER
TRIP (INCLUDING THE UNIT
CIRCUIT BREAKER)? NOTE: THE
FRONT COVER MAY HAVE TO BE
REMOVED TO SEE THE CIRCUIT
BREAKER. SEE MIM SECTION
3.2.2.1.

Y N

005

(ENTRY POINT B)

(WE ARE LOOKING FOR AN AC
OPEN.)

- MOVE THE ON/OFF SWITCH
TO THE OFF POSITION.

- <<DISCONNECT THE POWER
CABLE FROM THE 4997, OR
THE CUSTOMER'S

(STEP 005 CONTINUES)

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3 2 1
0 5 6 8
A B C D

E F G
4 4 4

4967 DISK POWER

MAP 1481-5

PAPER ONLY MAP

PAGE 5 OF 38

007

- TEST FOR CONTINUITY IN THE
POWER CABLE TERMINALS (1 TO
A AND 4 TO B OR 1 TO B AND
4 TO A). SEE LOGIC PAGE
SF741.

IS THERE CONTINUITY FOR ONE
PAIR OF MEASUREMENTS ?
(EITHER 1 TO A AND 4 TO B OR
1 TO B AND 4 TO A).

Y N

008

- EXCHANGE THE POWER CABLE.
SEE MIM SECTION 3.9.4.
- VERIFY THE REPAIR.

009

- EXCHANGE THE LINE FILTER.
SEE MIM SECTION 3.3.2.
- VERIFY THE REPAIR.

010

- EXCHANGE THE CABLE FROM THE
LINE FILTER TO THE CIRCUIT
BREAKER. SEE MIM SECTION
3.9.5.
- VERIFY THE REPAIR.

011

- ENSURE THE UNIT CIRCUIT BREAKER
IS ON.

- TEST FOR CONTINUITY FROM THE
POWER CABLE PLUG TO THE LOAD
SIDE OF THE CIRCUIT BREAKER (1
TO H AND 4 TO G OR 1 TO G AND 4
TO H). SEE LOGIC PAGE SF741.

(STEP 011 CONTINUES)

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MAP 1481-5

(STEP 011 CONTINUED)

IS THERE CONTINUITY FOR ONE PAIR OF MEASUREMENTS ? (EITHER 1 TO H AND 4 TO G OR 1 TO G AND 4 TO H).

Y N

|

| 012

- | - EXCHANGE THE CIRCUIT BREAKER.
- | SEE MIM SECTION 3.4.3.
- | - VERIFY THE REPAIR.

|

013

- TEST FOR CONTINUITY FROM POWER CABLE PLUG TO ON/OFF SWITCH (1 TO 2 AND 4 TO 5 OR 1 TO 5 AND 4 TO 2). SEE LOGIC PAGE SF741.

IS THERE CONTINUITY FOR ONE PAIR OF MEASUREMENTS? (EITHER 1 TO 2 AND 4 TO 5 OR 1 TO 5 AND 4 TO 2).

Y N

|

| 014

- | - EXCHANGE THE WIRES FROM CIRCUIT BREAKER TO ON/OFF SWITCH. SEE MIM SECTION 3.4.3.
- | - VERIFY THE REPAIR.

|

015

- MOVE THE ON/OFF SWITCH TO THE ON POSITION.
- TEST FOR CONTINUITY FROM POWER CABLE PLUG TO ON/OFF SWITCH (1 TO 3 AND 4 TO 6 OR 1 TO 6 AND 4 TO 3). SEE LOGIC PAGE SF741.

IS THERE CONTINUITY FOR ONE PAIR OF MEASUREMENTS ? (EITHER 1 TO 3 AND 4 TO 6 OR 1 TO 6 AND 4 TO 3).

Y N

| |

| |

| |

| |

| |

7 7

H J

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H J
6 6

4967 DISK POWER

MAP 1481-7

PAPER ONLY MAP

PAGE 7 OF 38

016

- EXCHANGE THE ON/OFF SWITCH.
SEE MIM SECTION 3.4.2.
- VERIFY THE REPAIR.

017

- DISCONNECT CONNECTOR P6 FROM THE POWER SUPPLY.
- TEST FOR CONTINUITY FROM POWER CABLE PLUG TO POWER SUPPLY (4 TO 8 AND 1 TO 7 OR 4 TO 7 AND 1 TO 8). SEE LOGIC PAGE SF741.

IS THERE CONTINUITY FOR ONE PAIR OF MEASUREMENTS ? (EITHER 4 TO 8 AND 1 TO 7 OR 4 TO 7 AND 1 TO 8).

Y N

018

- EXCHANGE THE CABLE FROM ON/OFF SWITCH BOX TO POWER SUPPLY. SEE MIM SECTION 3.9.6.
- VERIFY THE REPAIR.

019

- VISUALLY INSPECT FOR A GOOD CONNECTION BETWEEN CONNECTOR P6 ON THE CABLE AND THE J6 SOCKET ON THE POWER SUPPLY CARD.
- EXCHANGE THE POWER SUPPLY IF THE PRECEDING MEASUREMENTS WERE GOOD. ENSURE THE (110/220V) JUMPERS ON THE POWER SUPPLY ARE PLUGGED-IN FOR THE CORRECT VOLTAGE. SEE MIM SECTION 3.3.1 AND LOGIC PAGE SF741.
- VERIFY THE REPAIR.

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MAP 1481-7

D
3

4967 DISK POWER

MAP 1481-8

PAPER ONLY MAP

PAGE 8 OF 38

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020

(ENTRY POINT C)

(WE ARE LOOKING FOR AN AC SHORT.)

- SWITCH THE UNIT'S CIRCUIT BREAKER OFF.
- SWITCH THE 4997 CIRCUIT BREAKER OR THE CUSTOMER OUTLET ON.

- DID THE 4997 CIRCUIT BREAKER OR THE CUSTOMER'S OUTLET TRIP.

Y N

|
| 021

- <<DISCONNECT THE POWER CABLE>>.
 - REMOVE THE FRONT COVER.
 - REMOVE THE FOUR (4) SCREWS AT THE FRONT OF THE UNIT THAT ATTACH IT TO THE 4997. SEE MIM SECTION 3.2.2.1.
 - SLIDE THE UNIT OUT AND REMOVE THE TOP COVERS. SEE MIM SECTION 3.2.2.2.
 - DISCONNECT CONNECTOR P6 FROM THE POWER SUPPLY. SEE LOGIC PAGE SF741.
 - MOVE THE ON/OFF SWITCH TO THE ON POSITION.
 - MEASURE THE RESISTANCE AT CONNECTOR P6 FROM LINE TO LINE AND LINE TO GROUND ON THE CABLE (7 TO 8, 7 TO GROUND AND 8 TO GROUND). SEE LOGIC PAGE SF741.
- (STEP 021 CONTINUES)

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1
4
K

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MAP 1481-8

(STEP 021 CONTINUED)

IS THE RESISTANCE MORE THAN 200 KOHMS IN ALL MEASUREMENTS?

Y N

| 022

- | - DISCONNECT CABLE FROM THE ON/OFF SWITCH TO THE POWER SUPPLY AT ON/OFF SWITCH TERMINALS 3 AND 6. SEE LOGIC PAGE SF741 AND MIM SECTION 3.4.2.
- | - MEASURE THE RESISTANCE ON THE CABLE FROM 3 TO 6, 3 TO GROUND AND 6 TO GROUND.

| - IS THE RESISTANCE MORE THAN 200 KOHMS IN ALL MEASUREMENTS?

| Y N

| 023

- | - EXCHANGE THE CABLE FROM THE POWER SUPPLY TO THE ON/OFF SWITCH. SEE MIM SECTION 3.9.6.
- | - VERIFY THE REPAIR.

| 024

- | - DISCONNECT THE WIRES FROM TERMINALS 2 AND 5 ON THE ON/OFF SWITCH. SEE LOGIC PAGE SF741.
- | - MEASURE THE RESISTANCE ON THE WIRES FROM 2 TO 5, 2 TO GROUND AND 5 TO GROUND.

| - IS THE RESISTANCE MORE THAN 200 KOHMS IN ALL THE MEASUREMENTS?

| Y N

| |
| |
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1 1 1
1 0 0
L M N

M N
9 9

4967 DISK POWER

MAP 1481-10

PAPER ONLY MAP

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025

- DISCONNECT THE WIRES AT G AND H ON THE CIRCUIT BREAKER. SEE LOGIC PAGE SF741.

- MEASURE THE RESISTANCE FROM G TO H, G TO GROUND AND H TO GROUND ON THE CIRCUIT BREAKER

- IS THE RESISTANCE MORE THAN 200 KOHMS IN ALL THE MEASUREMENTS?

Y N

026

- EXCHANGE THE CIRCUIT BREAKER, RESEAT CONNECTOR P6 ON THE POWER SUPPLY AND TERMINALS 2,3,5 AND 6 ON THE ON/OFF SWITCH. SEE MIM SECTION 3.4.3.

- VERIFY THE REPAIR.

027

- EXCHANGE THE WIRES BETWEEN THE ON/OFF SWITCH AND THE CIRCUIT BREAKER. RESEAT CONNECTOR P6 ON THE POWER SUPPLY AND TERMINALS 3 AND 6 ON THE ON/OFF SWITCH. SEE MIM SECTION 3.4.5.

- VERIFY THE REPAIR.

028

- EXCHANGE THE ON/OFF SWITCH AND RESEAT CONNECTOR P6 ON THE POWER SUPPLY. SEE MIM SECTION 3.4.2.

- VERIFY THE REPAIR.

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MAP 1481-10

L
9

4967 DISK POWER

MAP 1481-11

PAPER ONLY MAP

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029

- DISCONNECT CABLE FROM POWER SUPPLY TO MOTOR CONTROL ASSEMBLY AT CONNECTOR P5 ON THE POWER SUPPLY. SEE LOGIC PAGE SF741.

- MEASURE THE RESISTANCE FROM 9 TO 10, 9 TO GROUND AND 10 TO GROUND ON THE CABLE AT P5. SEE LOGIC PAGE SF741.

- IS THE RESISTANCE MORE THAN 200 KOHMS IN ALL THE MEASUREMENTS?

Y N

030

- SLIDE THE TOP UNIT OUT .
- DISCONNECT THE CABLE AT P4 ON THE MOTOR CONTROL ASSEMBLY.

- MEASURE THE RESISTANCE FROM 9 TO 10, 9 TO GROUND AND 10 TO GROUND ON THE CABLE AT P5. SEE LOGIC PAGE SF741.

- IS THE RESISTANCE MORE THAN 200 KOHMS IN ALL THE MEASUREMENTS?

Y N

031

- EXCHANGE THE CABLE FROM THE POWER SUPPLY TO THE MOTOR CONTROL ASSEMBLY AND RESEAT CONNECTOR P6 ON THE POWER SUPPLY. SEE MIM SECTION 3.9.7.

- VERIFY THE REPAIR.

1 1
3 2
P Q

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MAP 1481-11

Q
1
1

4967 DISK POWER

MAP 1481-12

PAPER ONLY MAP

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032

- DISCONNECT THE CABLE FROM THE DRIVE MOTOR AT CONNECTOR J6 ON THE MOTOR CONTROL ASSEMBLY .
- MEASURE THE RESISTANCE FROM TERMINALS 13 TO 14, 13 TO GROUND AND 14 TO GROUND ON THE MOTOR CONTROL ASSEMBLY. SEE LOGIC PAGE SF741.

- IS THE RESISTANCE MORE THAN 200 KOHMS?

Y N

033

- EXCHANGE THE MOTOR CONTROL ASSEMBLY AND RESEAT CONNECTORS P5 AND P6 ON THE POWER SUPPLY . SEE MIM SECTION 3.4.5.
- VERIFY THE REPAIR.

034

- EXCHANGE THE DRIVE MOTOR, RESEAT CONNECTORS P5 AND P6 ON THE POWER SUPPLY AND P4 ON THE MOTOR CONTROL ASSEMBLY. SEE MIM SECTION 3.5.2.
- VERIFY THE REPAIR.

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MAP 1481-12

P 4967 DISK POWER
1
1 PAPER ONLY MAP

MAP 1481-13

| PAGE 13 OF 38
|
|

035

- DISCONNECT CONNECTOR P4 FROM THE POWER SUPPLY. SEE LOGIC PAGE SF741.
- MEASURE THE RESISTANCE FROM 11 TO 12 ON CONNECTOR P4.

IS THE RESISTANCE MORE THAN 90 OHMS FOR THE HIGH VOLTAGE UNITS OR MORE THAN 20 OHMS FOR THE LOW VOLTAGE UNITS?

Y N

| 036

- | - EXCHANGE THE FAN ASSEMBLY AND RESEAT CONNECTORS P5 AND P6 ON THE POWER SUPPLY. SEE MIM SECTION 3.8.1.
- | - VERIFY THE REPAIR.

037

- MEASURE THE RESISTANCE ON CONNECTOR P4 FROM PIN 11 TO GROUND AND 12 TO GROUND.

- IS THE RESISTANCE MORE THAN 200 KOHMS?

Y N

| 038

- | - EXCHANGE THE FAN ASSEMBLY AND RESEAT CONNECTORS P5 AND P6 ON THE POWER SUPPLY. SEE MIM SECTION 3.8.1.
- | - VERIFY THE REPAIR.

1
4
R

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MAP 1481-13

K R
8 1
3

4967 DISK POWER

MAP 1481-14

PAPER ONLY MAP

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039

- EXCHANGE THE POWER SUPPLY. ENSURE THE (110/220V) JUMPERS ON THE POWER SUPPLY ARE PLUGGED-IN FOR THE CORRECT VOLTAGE. SEE MIM SECTION 3.3.1 AND LOGIC PAGE SF741.
- VERIFY THE REPAIR.

040

- <<DISCONNECT THE POWER CABLE FROM THE 4997 OR THE CUSTOMER'S OUTLET.>>
- REMOVE THE FRONT COVER.
- REMOVE THE FOUR (4) SCREWS AT THE FRONT OF THE UNIT THAT ATTACH IT TO THE 4997. SEE MIM SECTION 3.2.2.1.
- SLIDE THE UNIT OUT AND REMOVE THE TOP COVERS. SEE MIM SECTION 3.2.2.2.
- REMOVE THE LINE FILTER COVER. SEE MIM SECTION 3.3.2.
- DISCONNECT THE CABLE FROM C AND D ON THE LINE FILTER. SEE LOGIC PAGE SF741.
- MEASURE THE RESISTANCE ON THE LINE FILTER FROM C TO D, C TO GROUND AND D TO GROUND.

- IS THE RESISTANCE MORE THAN 200 KOHMS IN ALL THE MEASUREMENTS?

Y N
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5 5
S T

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MAP 1481-14

S T 4967 DISK POWER
1 1
4 4 PAPER ONLY MAP

MAP 1481-15

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041

- DISCONNECT THE POWER CABLE FROM THE LINE FILTER AT A AND B. SEE LOGIC PAGE SF741.
- MEASURE THE RESISTANCE ON THE LINE FILTER FROM C TO D, C TO GROUND AND D TO GROUND.

- IS THE RESISTANCE MORE THAN 200 KOHMS IN ALL THE MEASUREMENTS?

Y N

042

- EXCHANGE THE LINE FILTER. SEE MIM SECTION 3.3.2.
- VERIFY THE REPAIR.

043

- EXCHANGE THE POWER CABLE AND CONNECT TERMINALS C AND D ON THE LINE FILTER. SEE MIM SECTION 3.9.
- VERIFY THE REPAIR.

044

- DISCONNECT CABLE FROM TERMINALS E AND F ON THE CIRCUIT BREAKER. SEE LOGIC PAGE SF741.
- MEASURE THE RESISTANCE FROM E TO F, E TO GROUND AND F TO GROUND ON THE CIRCUIT BREAKER.

- IS THE RESISTANCE MORE THAN 200 KOHMS IN ALL THE MEASUREMENTS?

Y N

1 1
6 6
U V

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MAP 1481-15

C U V 4967 DISK POWER
3 1 1
5 5 PAPER ONLY MAP

MAP 1481-16

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045

- EXCHANGE THE CIRCUIT
BREAKER AND CONNECT
TERMINALS C AND D ON THE
LINE FILTER. SEE MIM
SECTION 3.4.3.
- VERIFY THE REPAIR.

046

- EXCHANGE THE CABLE FROM THE
LINE FILTER TO THE CIRCUIT
BREAKER. SEE MIM SECTION
3.9.5.
- VERIFY THE REPAIR.

047

(ENTRY POINT D)

(WE ARE LOOKING FOR DIRECT
CURRENT (DC) SHORTS OR BAD POWER
SUPPLY.)

- MOVE THE ON/OFF SWITCH TO THE
OFF POSITION.
- REMOVE THE FRONT COVER.
- REMOVE THE FOUR (4) SCREWS AT
THE FRONT OF THE UNIT THAT
ATTACH IT TO THE 4997. SEE MIM
SECTION 3.2.2.1.
- REMOVE THE TOP LEFT (LH) COVER.
SEE MIM SECTION 3.2.2.2.
- VISUALLY INSPECT FOR A POSSIBLE
LOOSE CONNECTOR.
- DISCONNECT CONNECTORS P1, P2 AND
P3 FROM THE POWER SUPPLY. (P1
ONLY EXISTS ON BASE UNITS).
SEE MIM SECTION 2.9.

(STEP 047 CONTINUES)

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MAP 1481-16

X 4967 DISK POWER
1
7 PAPER ONLY MAP

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050

- MOVE THE ON/OFF SWITCH TO THE OFF POSITION.
- DISCONNECT POWER CONNECTORS VC1 THROUGH VC6 FROM THE A-2 BOARD. SEE MIM SECTION 2.4. SEE LOGIC PAGE SF742.
- MOVE THE ON/OFF SWITCH TO THE ON POSITION.

- DID THE "POWER ON" LED COME ON WITHIN 90 SECONDS AND REMAIN ON?

Y N

051

- EXCHANGE THE CABLE FROM J1 ON THE POWER SUPPLY TO THE A-2 BOARD AND RESEAT CONNECTORS P2 AND P3 ON THE POWER SUPPLY. SEE MIM SECTION 3.9.8.
- VERIFY THE REPAIR.

052

- MOVE THE ON/OFF SWITCH TO THE OFF POSITION.
- RESEAT THE POWER CONNECTORS ON THE A-2 BOARD. SEE MIM SECTION 2.4 AND LOGIC PAGE SF742.
- DISCONNECT THE TWO (2) CARDS FROM THE A-2 BOARD (A2C2 AND A2D2).
- MOVE THE ON/OFF SWITCH TO THE ON POSITION.

- DID THE "POWER ON" LED COME ON WITHIN 90 SECONDS AND REMAIN ON?

Y N

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| |

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1 1
9 9
Y Z

Y Z 4967 DISK POWER
1 1
8 8 PAPER ONLY MAP

MAP 1481-19

| | PAGE 19 OF 38

| |
| |
| |
| 053

| - EXCHANGE THE A-2 BOARD AND
| RESEAT CONNECTORS P2 AND P3
| ON THE POWER SUPPLY. SEE MIM
| SECTION 2.4.

| - VERIFY THE REPAIR.

|
054

- MOVE THE ON/OFF SWITCH TO THE
OFF POSITION.

- RESEAT THE A2D2 CARD INTO THE
A-2 BOARD.

- MOVE THE ON/OFF SWITCH TO THE
ON POSITION.

- DID THE "POWER ON" LED COME ON
WITHIN 90 SECONDS AND REMAIN ON?

Y N

|
| 055

| - EXCHANGE THE A2D2 CARD.
| RESEAT THE A2C2 CARD ON THE
| A-2 BOARD AND CONNECTORS P2
| AND P3 ON THE POWER SUPPLY.
| SEE MIM SECTION 2.10.

| - VERIFY THE REPAIR.

|
056

- EXCHANGE THE A2C2 CARD. RESEAT
THE A2D2 CARD ON THE A-2 BOARD
AND CONNECTORS P2 AND P3 ON THE
POWER SUPPLY. SEE MIM SECTION
2.10.

- VERIFY THE REPAIR.

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MAP 1481-19

W 4967 DISK POWER
1
7 PAPER ONLY MAP
| PAGE 20 OF 38
|
|

057

- MOVE THE ON/OFF SWITCH TO THE OFF POSITION.
- VISUALLY INSPECT FOR DAMAGE ON THE CABLE TO CONNECTOR J2 ON THE POWER SUPPLY.
- RESEAT CONNECTOR P2 ON THE POWER SUPPLY. SEE LOGIC PAGE SF742.
- MOVE THE ON/OFF SWITCH TO THE ON POSITION.

- DID THE "POWER ON" LED COME ON WITHIN 90 SECONDS AND REMAIN ON?

Y N

058

- MOVE THE ON/OFF SWITCH TO THE OFF POSITION.
- DISCONNECT POWER CONNECTORS VC1 THROUGH VC6 FROM THE A-1 BOARD. SEE MIM SECTION 2.4. SEE LOGIC PAGE SF742.
- MOVE THE ON/OFF SWITCH TO THE ON POSITION.

- DID THE "POWER ON" LED COME ON WITHIN 90 SECONDS AND REMAIN ON?

Y N

059

- EXCHANGE THE CABLE FROM J2 ON THE POWER SUPPLY TO THE A-1 BOARD AND RESEAT CONNECTOR P3 ON THE POWER SUPPLY. SEE MIM SECTION 3.9.8.
- VERIFY THE REPAIR.

2 2
3 1
A A
A B

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A 4967 DISK POWER
B
2 PAPER ONLY MAP
0
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|
|
060

- MOVE THE ON/OFF SWITCH TO THE OFF POSITION.
- RESEAT THE POWER CONNECTORS ON THE A-1 BOARD.
- DISCONNECT THE THREE (3) CARDS FROM THE A-1 BOARD (A1B2, A1C2 AND A1D2).
- MOVE THE ON/OFF SWITCH TO THE ON POSITION.

- DID THE "POWER ON" LED COME ON WITHIN 90 SECONDS AND REMAIN ON?

Y N

|
| 061

- MOVE THE ON/OFF SWITCH TO THE OFF POSITION.
- EXCHANGE THE A-1 BOARD. SEE MIM SECTION 2.4 AND LOGIC PAGE SF742.
- RESEAT ALL THE REMOVED CARDS AND CABLES INCLUDING CONNECTOR P3 ON THE POWER SUPPLY.
- VERIFY THE REPAIR.

|
062

- MOVE THE ON/OFF SWITCH TO THE OFF POSITION.
- RESEAT THE A1B2 CARD INTO THE A-1 BOARD. SEE MIM SECTION 2.10.
- MOVE THE ON/OFF SWITCH TO THE ON POSITION.

- DID THE "POWER ON" LED COME ON WITHIN 90 SECONDS AND REMAIN ON?

Y N

|
|
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|
|

2 2
2 2
A A
C D

A A 4967 DISK POWER
C D
2 2 PAPER ONLY MAP
1 1
PAGE 22 OF 38

MAP 1481-22

| |
| |
| 063
| - EXCHANGE THE A1B2 CARD.
| RESEAT THE A1C2 AND A1D2
| CARDS ON THE A-1 BOARD AND
| CONNECTOR P3 ON THE POWER
| SUPPLY. SEE MIM SECTION
| 2.10.
| - VERIFY THE REPAIR.

064
- MOVE THE ON/OFF SWITCH TO THE
OFF POSITION.
- RESEAT THE A1C2 CARD INTO THE
A-1 BOARD.
- MOVE THE ON/OFF SWITCH TO THE
ON POSITION.

- DID THE "POWER ON" LED COME ON
WITHIN 90 SECONDS AND REMAIN ON?
Y N

| |
| 065
| - EXCHANGE THE A1C2 CARD.
| RESEAT THE A1B2 AND A1D2
| CARDS ON THE A-1 BOARD AND
| CONNECTOR P3 ON THE POWER
| SUPPLY. SEE MIM SECTION
| 2.10.
| - VERIFY THE REPAIR.

066
- EXCHANGE THE A1D2 CARD. RESEAT
THE A1B2 AND A1C2 CARDS ON THE
A-1 BOARD AND CONNECTOR P3 ON
THE POWER SUPPLY. SEE MIM
SECTION 2.10.
- VERIFY THE REPAIR.

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MAP 1481-22

A 4967 DISK POWER
A
2 PAPER ONLY MAP
0
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|
|
067

- MOVE THE ON/OFF SWITCH TO THE OFF POSITION.
- RESEAT CONNECTOR P3 ON THE POWER SUPPLY.
- DISCONNECT THE CABLE FROM CONNECTOR J2 ON VOICE COIL DRIVER ASSEMBLY. SEE LOGIC PAGE SF742.
- MOVE THE ON/OFF SWITCH TO THE ON POSITION.

- DID THE "POWER ON" LED COME ON WITHIN 90 SECONDS AND REMAIN ON?

Y N

|
| 068

- EXCHANGE THE CABLE FROM THE POWER SUPPLY TO VOICE COIL DRIVER ASSEMBLY. SEE MIM SECTION 3.9.9. SEE LOGIC PAGES SF741 AND SF742.
- VERIFY THE REPAIR.

|
069

- MOVE THE ON/OFF SWITCH TO THE OFF POSITION.
- RESEAT THE P2 CONNECTOR (4 POSITIONS) INTO THE VOICE COIL DRIVER ASSEMBLY.
- DISCONNECT CONNECTOR P3 (9 POSITIONS) FROM THE VOICE COIL DRIVER ASSEMBLY. SEE LOGIC PAGE SF742.
- MOVE THE ON/OFF SWITCH TO THE ON POSITION.

- DID THE "POWER ON" LED COME ON WITHIN 90 SECONDS AND REMAIN ON?

Y N

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EC337376 PECA03075

A A 4967 DISK POWER
E F
2 2 PAPER ONLY MAP
3 3
PAGE 24 OF 38

MAP 1481-24

| |
| |
| 070
| - EXCHANGE THE VOICE COIL
| DRIVER ASSEMBLY. SEE MIM
| SECTION 3.6.5.
| - VERIFY THE REPAIR.

|
071
- MOVE THE ON/OFF SWITCH TO THE
OFF POSITION.
- RESEAT CONNECTOR P3 INTO THE
VOICE COIL DRIVER ASSEMBLY.
- DISCONNECT CONNECTOR P5 (6
POSITIONS) FROM THE MOTOR
CONTROL ASSEMBLY. SEE LOGIC
PAGE SF741 AND MIM SECTION
3.4.5.
- MOVE THE ON/OFF SWITCH TO THE
ON POSITION.

- DID THE "POWER ON" LED COME ON
WITHIN 90 SECONDS AND REMAIN ON?
Y N

|
| 072
| - EXCHANGE THE CABLE FROM THE
| MOTOR CONTROL ASSEMBLY TO THE
| VOICE COIL DRIVER ASSEMBLY.
| SEE MIM SECTION 3.9.11.
| - VERIFY THE REPAIR.

|
073
- EXCHANGE THE MOTOR CONTROL
ASSEMBLY. SEE MIM SECTION
3.4.5 AND LOGIC PAGE SF741.
- VERIFY THE REPAIR.

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MAP 1481-24

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074

4967 DISK POWER
PAPER ONLY MAP
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MAP 1481-25

(ENTRY POINT E)

(WE ARE LOOKING FOR A THERMAL FAILURE , A BAD POWER SUPPLY OR A BAD "POWER ON" LED/CABLE).

- DO NOT SWITCH THE POWER OFF.
- REMOVE THE FRONT COVER.
- REMOVE THE FOUR (4) SCREWS AT THE FRONT OF THE UNIT THAT ATTACH IT TO THE 4997. SEE MIM SECTION 3.2.2.1.
- SLIDE THE UNIT OUT AND REMOVE THE TOP LEFT (LH) COVER. SEE MIM SECTION 3.2.2.2.
- DISCONNECT CONNECTOR P1 FROM THE POWER SUPPLY. SEE LOGIC PAGE SF742.
- MEASURE THE VOLTAGE FROM PIN 10 TO GROUND ON CONNECTOR J1.

IS THE VOLTAGE LESS THAN 0.7 VOLTS?

Y N
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EC337376 PECA03075
MAP 1481-25

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4967 DISK POWER
PAPER ONLY MAP
PAGE 25 OF 38

MAP 1481-26

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075

- MOVE THE ON/OFF SWITCH TO THE OFF POSITION.
- RESEAT CONNECTOR P1 ON THE POWER SUPPLY.
- THE UNIT HAS A BAD "POWER ON" LED OR BAD LED CABLE FROM THE POWER SUPPLY. <<CAUTION>> DO NOT REMOVE THE POWER SUPPLY COVER WHEN THE ON/OFF SWITCH IS ON.
- DISCONNECT THE CONNECTOR AT THE BACK OF THE "POWER ON" LED. SEE MIM SECTION 3.4.4 AND LOGIC PAGE SF742.
- MOVE THE ON/OFF SWITCH TO THE ON POSITION AND WAIT 30 SECONDS. MEASURE THE VOLTAGE ACROSS THE LED CONNECTOR WITH THE POSITIVE (+) WIRE OF THE VOLTMETER CONNECTED TO THE "BLACK" WIRE OF THE LED CABLE CONNECTOR.

IS THE VOLTAGE 4.5 TO 5.5 VOLTS?

Y N

|
|
076

- MOVE THE ON/OFF SWITCH TO THE OFF POSITION.
- EXCHANGE THE CABLE FROM THE POWER SUPPLY TO THE LED. SEE LOGIC PAGES SF741, SF742 AND MIM SECTION 3.4.4.
- VERIFY THE REPAIR.

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EC337376 PECA03075
MAP 1481-26

A A 4967 DISK POWER
G J
2 2 PAPER ONLY MAP
5 6
PAGE 27 OF 38

MAP 1481-27

| |
| |
| 077
| - MOVE THE ON/OFF SWITCH TO THE
| OFF POSITION.
| - EXCHANGE THE "POWER ON" LED.
| SEE MIM SECTION 3.4.4 AND
| LOGIC PAGE SF742.
| - VERIFY THE REPAIR.

078
- THE UNIT HAS A THERMAL FAILURE.
- RESEAT CONNECTOR P1.
- THE UNIT HAS AN AIR FLOW
OBSTRUCTION OR BAD POWER
SUPPLY.

IS THE FAN TURNING FREELY?

Y N
| |
| 079
| - MOVE THE ON/OFF SWITCH TO THE
| OFF POSITION.
| - <<DISCONNECT THE ALTERNATING
| CURRENT (AC) POWER CABLE>>.
| - REMOVE THE TOP RIGHT SIDE
| COVER.
| - DISCONNECT CONNECTOR P4 FROM
| THE POWER SUPPLY AND MEASURE
| THE RESISTANCE ON THE CABLE
| TO THE FAN. SEE LOGIC PAGE
| SF742.

| IS THE RESISTANCE BETWEEN 80
| AND 120 OHMS FOR THE HIGH
| VOLTAGE MACHINES OR BETWEEN 10
| AND 30 OHMS FOR THE LOW VOLTAGE
| MACHINES?

Y N
| |
| 080
| - EXCHANGE THE FAN ASSEMBLY.
| SEE MIM SECTION 3.8.1.
| - VERIFY THE REPAIR.

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MAP 1481-27

081
- TURN THE FAN.

IS THE FAN BINDING?

Y N

082
- ENSURE THAT CONNECTOR J4 IS
MAKING GOOD CONTACT WITH THE
POWER SUPPLY CARD BEFORE
EXCHANGING THE POWER SUPPLY.
- EXCHANGE THE POWER SUPPLY.
ENSURE THE (110/220V) JUMPERS
ON THE POWER SUPPLY ARE
PLUGGED-IN FOR THE CORRECT
VOLTAGE. SEE MIM SECTION
3.3.1 AND LOGIC PAGE SF741.
- VERIFY THE REPAIR.

083
- EXCHANGE THE FAN ASSEMBLY. SEE
MIM SECTION 3.8.1.
- VERIFY THE REPAIR.

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MAP 1481-28

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4967 DISK POWER

MAP 1481-29

PAPER ONLY MAP

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084

- MOVE THE ON/OFF SWITCH TO THE OFF POSITION.
- MOVE THE CIRCUIT BREAKER TO THE OFF POSITION.
- INSPECT FOR OBSTRUCTION ON THE AIR OUTLETS.
- INSPECT FOR OBSTRUCTION IN THE AIR PATH THROUGH THE UNIT.
- INSPECT FOR CLEAN AIR INTAKE TO THE UNIT .
- INSPECT FOR DUST AROUND THE THERMAL CIRCUIT ON THE POWER SUPPLY. SEE MIM SECTION 2.9.
- OBSERVE IF THE FAN IS TURNING SLOW, IF THE SYSTEM HAS AN ADDITIONAL 4967, USE IT FOR REFERENCE.
- WHEN NONE OF THE ABOVE IS CAUSING THE FAILURE, EXCHANGE THE POWER SUPPLY. ENSURE THE (110/220V) JUMPERS ON THE POWER SUPPLY ARE PLUGGED-IN FOR THE CORRECT VOLTAGE. SEE MIM SECTION 3.3.1 AND LOGIC PAGE SF741.
- VERIFY THE REPAIR.

* NOTE: THE POWER SUPPLY COVER *
* MUST BE IN PLACE WHEN THE UNIT*
* IS SWITCHED ON OR A THERMAL *
* CONDITION WILL OCCUR. *

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MAP 1481-29

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085

4967 DISK POWER
PAPER ONLY MAP
PAGE 30 OF 38

MAP 1481-30

(ENTRY POINT F)

(WE ARE LOOKING FOR A DC OPEN,
BAD FAN ASSEMBLY, BAD POWER
SUPPLY CONNECTION, A SHORTED
P.O.R. DELAY TO THE A-2 BOARD OR
AN OPEN AC CABLE TO THE MOTOR
CONTROL ASSEMBLY.)

- IS THE FAN TURNING?

Y N

|
|

086

| - MOVE THE ON/OFF SWITCH TO THE
| OFF POSITION.
| - REMOVE THE FRONT COVER.
| - REMOVE THE FOUR (4) SCREWS AT
| THE FRONT OF THE UNIT THAT
| ATTACH IT TO THE 4997. SEE MIM
| SECTION 3.2.2.1.
| - SLIDE THE UNIT OUT AND REMOVE
| THE TOP COVERS. SEE MIM
| SECTION 3.2.2.2.
| - DISCONNECT CONNECTOR P4 FROM
| THE POWER SUPPLY AND MEASURE
| THE RESISTANCE ACROSS THE
| TERMINALS ON THE CABLE. SEE
| LOGIC PAGE SF741.
| (STEP 086 CONTINUES)

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MAP 1481-30

(STEP 086 CONTINUED)

- IS THE RESISTANCE BETWEEN 80 AND 120 OHMS FOR THE HIGH VOLTAGE MACHINES OR BETWEEN 10 AND 30 OHMS FOR THE LOW VOLTAGE MACHINES?

Y N

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| 087
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- <<DISCONNECT THE POWER CABLE>>.
- EXCHANGE THE FAN ASSEMBLY. SEE MIM SECTION 3.8.1.
- VERIFY THE REPAIR.

088

- INSPECT CONNECTOR P4 FOR A GOOD CONNECTION WITH J4.

IS THE FAN ASSEMBLY CABLE BAD?

Y N

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| 089
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- EXCHANGE THE POWER SUPPLY. ENSURE THE (110/220V) JUMPERS ON THE POWER SUPPLY ARE PLUGGED-IN FOR THE CORRECT VOLTAGE. SEE MIM SECTION 3.3.1 AND LOGIC PAGE SF741.
- VERIFY THE REPAIR.

090

- EXCHANGE THE FAN ASSEMBLY. SEE MIM SECTION 3.8.1.
- VERIFY THE REPAIR.

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4967 DISK POWER

MAP 1481-33

PAPER ONLY MAP

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092

- MOVE THE ON/OFF SWITCH TO THE OFF POSITION.
- DISCONNECT P1 AT CONNECTOR J1 ON THE POWER SUPPLY.
- MOVE THE ON/OFF SWITCH TO THE ON POSITION.
- MEASURE THE VOLTAGES AT J1 ON THE POWER SUPPLY INCLUDING THE P.O.R.* DELAY. SEE CHART J1. SEE LOGIC PAGE SF742.

CHART J1
(FOR CONNECTOR J1 ON THE POWER SUPPLY)

VOLTAGE	LOCATION	VOLTAGE RANGE
+5	4	+4.5 TO +5.5
-5	20	-4.5 TO -5.5
+8.5	24	+7.6 TO +9.4
GROUND	1	-----
POR	16	+3.5 TO 5.5*

DO THE VOLTAGES MATCH CHART J1 ?

Y N

|
| 093

- EXCHANGE THE POWER SUPPLY. ENSURE THE (110/220V) JUMPERS ON THE POWER SUPPLY ARE PLUGGED-IN FOR THE CORRECT VOLTAGE. SEE MIM SECTION 3.3.1 AND LOGIC PAGE SF741.
- VERIFY THE REPAIR.

094

- EXCHANGE THE DC CABLE FROM J1 ON THE POWER SUPPLY TO THE A-2 BOARD. SEE MIM SECTION 3.9.8.
- VERIFY THE REPAIR.

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MAP 1481-33

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4967 DISK POWER
PAPER ONLY MAP
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MAP 1481-35

096

- MOVE THE ON/OFF SWITCH TO THE OFF POSITION.
- DISCONNECT P2 AT CONNECTOR J2 ON THE POWER SUPPLY.
- MOVE THE ON/OFF SWITCH TO THE ON POSITION.
- MEASURE THE VOLTAGES ON THE POWER SUPPLY AT J2 INCLUDING POWER GOOD. SEE CHART J2 AND LOGIC PAGE SF742.

CHART J2
(FOR CONNECTOR J2 ON THE POWER SUPPLY).

VOLTAGE	LOCATION	VOLTAGE RANGE
+5	21	+4.5 TO +5.5
-5	1	-4.5 TO -5.5
+12	5	+10.8 TO +13.2
-12	9	-10.8 TO -13.2
P.G.	6	+0.0 TO +0.7
GROUND	4	-----

DO THE VOLTAGES MATCH CHART J2?

Y N

097

- EXCHANGE THE POWER SUPPLY. ENSURE THE (110/220V) JUMPERS ON THE POWER SUPPLY ARE PLUGGED-IN FOR THE CORRECT VOLTAGE. SEE MIM SECTION 3.3.1 AND LOGIC PAGE SF741.
- VERIFY THE REPAIR.

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EC337376 PECA03075

MAP 1481-35

A A 4967 DISK POWER
 Q S
 3 3 PAPER ONLY MAP
 4 5
 PAGE 36 OF 38

MAP 1481-36

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 | |
 | 098
 | - MOVE THE ON/OFF SWITCH TO THE
 | OFF POSITION.
 | - INSPECT CONNECTOR J2 FOR
 | LOOSE PINS.
 | - EXCHANGE THE DC CABLE FROM J2
 | ON THE POWER SUPPLY TO THE
 | A-1 BOARD. SEE MIM SECTION
 | 3.9.8.
 | - VERIFY THE REPAIR.
 |
 099

(ENTRY POINT H)

(WE ARE LOOKING FOR AN OPEN ON THE DC CABLE FROM J3 ON THE POWER SUPPLY TO J2 ON THE VOICE COIL DRIVER ASSEMBLY OR AN OPEN AC CABLE BETWEEN THE POWER SUPPLY AND THE MOTOR CONTROL ASSEMBLY.)

- MOVE THE ON/OFF SWITCH TO THE OFF POSITION.
- SLIDE THE TOP UNIT OUT .
- UNPLUG CONNECTOR P2 FROM THE VOICE COIL DRIVER ASSEMBLY.
- MOVE THE ON/OFF SWITCH TO THE ON POSITION.
- MEASURE THE VOLTAGES ON THE P-2 CONNECTOR AND COMPARE TO CHART P-2.

DID THE VOLTAGES MATCH CHART P-2?

Y N
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CHART P-2
 (FOR CONNECTOR J2 ON THE VOICE COIL DRIVER ASSEMBLY).

VOLTAGE	LOCATION	VOLTAGE RANGE
+36	1	+32.4 TO +39.6
GROUND	2	-----
GROUND	3	-----
-36	4	-32.4 TO -39.6

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EC337376 PECA03075

MAP 1481-36

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4967 DISK POWER
PAPER ONLY MAP
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MAP 1481-37

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100

- MOVE THE ON/OFF SWITCH TO THE OFF POSITION.
- MOVE THE CIRCUIT BREAKER TO THE OFF POSITION.
- DISCONNECT THE CABLE FROM CONNECTOR J3 ON THE POWER SUPPLY. SEE LOGIC PAGE SF742.
- MOVE THE CIRCUIT BREAKER TO THE ON POSITION.
- MOVE THE ON/OFF SWITCH TO THE ON POSITION.
- MEASURE THE VOLTAGES ON THE POWER SUPPLY AT CONNECTOR J3 AND COMPARE TO CHART J3.

CHART J3

VOLTAGE	LOCATION	VOLTAGE RANGE
+36	5	+32.4 TO +39.6
GROUND	4	-----
GROUND	1	-----
-36	2	-32.4 TO -39.6

DID THE VOLTAGES MATCH CHART J3?
Y N

|
|
101

- EXCHANGE THE POWER SUPPLY. ENSURE THE (110/220V) JUMPERS ON THE POWER SUPPLY ARE PLUGGED-IN FOR THE CORRECT VOLTAGE. SEE MIM SECTION 3.3.1 AND LOGIC PAGE SF741.
- RESEAT CONNECTOR P2 ON THE VOICE COIL DRIVER ASSEMBLY.
- VERIFY THE REPAIR.

102

- EXCHANGE THE CABLE FROM THE POWER SUPPLY TO THE VOICE COIL DRIVER ASSEMBLY. SEE MIM SECTION 3.9.9.
- VERIFY THE REPAIR.

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EC337376 PECA03075

MAP 1481-37

A 4967 DISK POWER
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3 PAPER ONLY MAP
6
PAGE 38 OF 38

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103

- MOVE THE ON/OFF SWITCH TO THE OFF POSITION.
- RESEAT CONNECTOR P2 ON DC CABLE TO VOICE COIL DRIVER ASSEMBLY.
- <<DISCONNECT THE POWER CABLE.>>
- DISCONNECT AC CABLE FROM CONNECTOR J4 AT THE MOTOR CONTROL ASSEMBLY. SEE LOGIC PAGE SF741.
- MOVE THE CIRCUIT BREAKER TO THE ON POSITION.
- MOVE THE ON/OFF SWITCH TO THE ON POSITION.
- TEST FOR CONTINUITY FROM THE POWER CABLE PLUG TO CONNECTOR P4 ON THE CABLE TO THE MOTOR CONTROL ASSEMBLY (1 TO 13 AND 4 TO 14 OR 1 TO 14 AND 4 TO 13). SEE LOGIC PAGE SF741.

IS THERE CONTINUITY FOR ONE PAIR OF MEASUREMENTS ? (EITHER 1 TO 13 AND 4 TO 14 OR 1 TO 14 AND 4 TO 13).

Y N

|
|

104

- EXCHANGE THE AC CABLE FROM CONNECTOR J5 ON THE POWER SUPPLY TO CONNECTOR J4 ON THE MOTOR CONTROL ASSEMBLY. SEE MIM SECTION 3.9.7 AND LOGIC PAGE SF741.
- VERIFY THE REPAIR.

|
|

105

- LOAD MAP 7B00.

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Sequence		Part	EC375475				
0420AA	1 of 2	6841447	5-1-79				

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2XXX
PROCESSOR

2XXX
PROCESSOR

Sequence		Part	EC375475				
0420AA	2 of 2	6841447	5-1-79				

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PROCESSING UNIT TEST

MAP 2000-3

PAPER ONLY MAP

PAGE 3 OF 14

004

- SEE THE NOTE --->

EXCHANGE STORAGE UNIT
STORAGE ERROR - ADDRESS =
X'00YYYYYY'.

- ENSURE STORAGE IS INSTALLED AT
THE FAILING ADDRESS.

IF STORAGE IS NOT INSTALLED AT
THE FAILING ADDRESS:

- ANSWER THE QUESTION 'NO'.

IS STORAGE INSTALLED AT THE
FAILING ADDRESS?

Y N

| 005
| STORAGE IS NOT INSTALLED AT THE
| FAILING ADDRESS.
| GO TO PAGE 8, STEP 029,
| ENTRY POINT CP.

006

- EXCHANGE THE STORAGE UNIT AT
ADDRESS LOCATION X'00YYYYYY'.
- RUN THE FAILING DIAGNOSTIC
- IF SAME FAILURE, SUSPECT THE
PROCESSOR CARD(S).

GO TO MAP 2070, ENTRY POINT PR.

IF A PROGRAMMER CONSOLE
IS THE INPUT/OUTPUT:

REGISTER 0 = STEP NUMBER
REGISTER 2 = 00YY ADDRESS
(HEXADECIMAL)
REGISTER 3 = YYYY ADDRESS
(HEXADECIMAL)

- ENSURE JUMPERS, IF INSTALLED,
ARE CORRECT.
- SEE LOGIC AXXXX.

IF A PROGRAMMER CONSOLE
IS THE INPUT/OUTPUT:

REGISTER 0 = STEP NUMBER
REGISTER 2 = 00YY ADDRESS
(HEXADECIMAL)
REGISTER 3 = YYYY ADDRESS
(HEXADECIMAL)

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MAP 2000-3

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PROCESSING UNIT TEST

PAPER ONLY MAP

PAGE 4 OF 14

007

- SEE IF A TRANSLATOR/EXPANDER IS
INSTALLED.

IS A TRANSLATOR/EXPANDER
INSTALLED?

Y N

008

TRANSLATOR/EXPANDER EXPECTED -
NOT FOUND

IS A TRANSLATOR/EXPANDER
INSTALLED?

Y N

009

A TRANSLATOR/EXPANDER IS NOT
INSTALLED ON THE SYSTEM.
GO TO PAGE 8, STEP 029,
ENTRY POINT CP.

010

A TRANSLATOR/EXPANDER IS
INSTALLED ON THE SYSTEM.

- EXCHANGE THE
TRANSLATOR/EXPANDER CARD IF
THE PROCESSING UNIT IS A
4955.

- EXCHANGE THE PROCESSING UNIT
CARD IF THE PROCESSING UNIT
IS A 495X.

IS THE SYSTEM REPAIRED?

Y N

011

GO TO MAP 0070,
ENTRY POINT A.

E F

E F

MAP 2000-4

012

- VERIFY THE REPAIR

013

NO TRANSLATOR/EXPANDER IS
EXPECTED TO BE INSTALLED. THE
PROGRAM TESTS IF A
TRANSLATOR/EXPANDER IS INSTALLED.
IF INSTALLED, IT IS AN ERROR.

IS A TRANSLATOR/EXPANDER NOT
INSTALLED?

Y N

014

NO TRANSLATOR/EXPANDER EXPECTED
- ONE FOUND

IS A TRANSLATOR/EXPANDER
INSTALLED?

Y N

015

A TRANSLATOR/EXPANDER IS NOT
INSTALLED ON THE SYSTEM.

- EXCHANGE THE PROCESSING
UNIT.

- SEE THE BASIC PROCESSING
UNIT MAP FOR DETAILS.

GO TO MAP 2070,
ENTRY POINT PC.

016

A TRANSLATOR/EXPANDER IS
INSTALLED ON THE SYSTEM.

GO TO PAGE 8, STEP 029,
ENTRY POINT CP.

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MAP 2000-4

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PROCESSING UNIT TEST

MAP 2000-5

PAPER ONLY MAP

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017
DID THE TEST RUN WITHOUT ERROR?
Y N

018
- SEE THE NOTE ---->
ERROR -- SEE MAP XX00
PROCESSING UNIT ERROR

IF A PROGRAMMER CONSOLE
IS THE INPUT/OUTPUT:

REGISTER 0 = STEP NUMBER
REGISTER 1 = RETURN CODE.

GO TO MAP 2070, ENTRY POINT PC.

019
DID THE TEST RUN WITHOUT ERROR?
Y N

020
TEST NUMBER
ENTER

ENTER THE NUMBER OF THE
ROUTINE.

021
- SEE IF THE DISKETTE TEST RAN
CORRECT.

DID THE DISKETTE TEST RUN
CORRECT?
Y N

022
- SEE THE NOTE ---->
DISKETTE ERROR - OXXXX

'XXXX' IS THE TEST NUMBER NOT
FOUND ON THE DISKETTE.

IF A PROGRAMMER CONSOLE
IS THE INPUT/OUTPUT:

REGISTER 0 = STEP NUMBER
REGISTER 1 = 0000
REGISTER 2 = 0000
REGISTER 3 = POINTER TO NAME OF
TEST (EBCDIC)
(POINTER IS HEXADECIMAL)

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MAP 2000-5

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PROCESSING UNIT TEST

MAP 2000-8

PAPER ONLY MAP

PAGE 8 OF 14

028

- SEE THE NOTE ---->

OUTER STORAGE SIZE ERROR
EXPECTED -- XXXXXX
RECEIVED -- YYYYYY

- COMPARE THE OUTER STORAGE SIZE INSTALLED TO THE 'XXXXXX' NUMBER.
- SEE MAP PROLOG 2000.
- SEE THE STORAGE LOGIC(S), MLD VOLUME VOLUME ONE (1):

TYPE	LOGIC PAGE NUMBER
4952	A2103
4953	A3300
495X	AXXXX

- SEE THE OUTER STORAGE SIZE INSTALLED.
- USE THE LOGIC(S) TO COMPARE THE INSTALLED OUTER STORAGE TO THE XXXXXX NUMBER.

IS THE OUTER STORAGE SIZE INSTALLED AND THE 'XXXXXXX' NUMBER EQUAL?

Y N

029

(ENTRY POINT CP)

THE CONFIGURATION TABLE IS NOT CORRECT.

- USE THE CONFIGURATION PROGRAM 38F0, TO CORRECT THE CONFIGURATION TABLE.

GO TO MAP 3880, ENTRY POINT A.

IF A PROGRAMMER CONSOLE IS THE INPUT/OUTPUT:

REGISTER 0 = STEP NUMBER
 REGISTER 1 = 00XX EXPECTED
 REGISTER 2 = XXXX EXPECTED
 REGISTER 3 = 00YY RECEIVED

REGISTER 4 = YYYY RECEIVED

- ENSURE JUMPERS, IF INSTALLED, ARE CORRECT.
- SEE LOGIC AXXXX.

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MAP 2000-8

9
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7 S

PROCESSING UNIT TEST

MAP 2000-9

PAPER ONLY MAP

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030

THE CONFIGURATION TABLE IS
CORRECT.

- SEE THE NOTE --->
- SEE THE STORAGE SIZE NOTED IN
THE YYYYYY NUMBER.
- ADD ONE (1) TO THIS OUTER
STORAGE SIZE.
- EXCHANGE THE OUTER STORAGE
WHERE THIS YYYYYY + 1 STORAGE
IS INSTALLED.
- RUN THE FAILING DIACNOSTIC
- IF SAME FAILURE, SUSPECT THE
PROCESSOR CARD(S).

GO TO MAP 2070, ENTRY POINT PR.

031

DID THE TEST RUN WITHOUT ERROR?

Y N

IF A PROGRAMMER CONSOLE
IS THE INPUT/OUTPUT:

REGISTER 0 = STEP NUMBER
REGISTER 1 = 00XX EXPECTED
REGISTER 2 = XXXX EXPECTED
REGISTER 3 = 00YY RECEIVED
REGISTER 4 = YYYY RECEIVED

1 1
0 0
Q R

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ECA41061 PECA40867

MAP 2000-9

Q R
9 9

PROCESSING UNIT TEST

MAP 2000-10

PAPER ONLY MAP

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032

THERE WILL BE ONE OF THE THESE
MESSAGES:

'EXCHANGE PROCESSING UNIT
CARD(S)'

IF NO REPAIR,
GO TO MAP 0070, ENTRY POINT A.

'EXCHANGE ADDRESS TRANSLATOR OR
EXPANDER'

IF NO REPAIR,
GO TO MAP 0070, ENTRY POINT A.

'ENSURE FLOATING POINT ENTRY IS
CORRECT IN CONFIGURATION TABLE.
IF CORRECT, EXCHANGE PROCESSING
UNIT CARD.'

- SEE THE NOTE ---->

LOCATION HEXADECIMAL 18A8 =
RETURN CODE
LOCATION HEXADECIMAL 18AA =
TEST THAT FAILED

033

WHEN LOOPING A 16K BLOCK OF
STORAGE, THIS MESSAGE WILL
APPEAR:
ENTER 16K BLOCK YOU WANT TO LOOP

IS THIS MESSAGE CORRECT?

Y N

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4 1
S T

IF A PROGRAMMER CONSOLE
IS THE INPUT/OUTPUT:

REGISTER 0 = STEP NUMBER
REGISTER 1 = AS FOLLOWS:
0001 = EXCHANGE ADDRESS
TRANSLATOR/EXPANDER.
0002 = EXCHANGE PROCESSING UNIT*
0003 = FLOATING POINT MESSAGE*

* SEE THE CONFIGURATION
TABLE ENTRY:

IF THE TABLE IS CORRECT:
EXCHANGE THE PROCESSING UNIT
CARD

IF THE TABLE IS NOT CORRECT:
GO TO MAP 3880, ENTRY POINT A.

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MAP 2000-10

X PROCESSING UNIT TEST
1
1 PAPER ONLY MAP

MAP 2000-12

| PAGE 12 OF 14
|
|

037
- SEE THE ERROR MESSAGE.

'ENSURE FLOATING POINT ENTRY IS
CORRECT IN CONFIGURATION TABLE.
IF CORRECT, EXCHANGE PROCESSING
UNIT CARD.'

IS THIS THE ERROR MESSAGE?
Y N

| 038
| - SEE THE ERROR MESSAGE.

| 'EXCHANGE PROCESSING UNIT CARD'

| IS THIS THE ERROR MESSAGE?
| Y N

| 039
| GO TO PAGE 14, STEP 046,
| ENTRY POINT ED.

| 040
| - EXCHANGE PROCESSING UNIT
| CARD.

LOCATION HEXADECIMAL 18A8 =
RETURN CODE
LOCATION HEXADECIMAL 18AA =
TEST THAT FAILED

| GO TO MAP 2070, ENTRY POINT PC.
|

041
- ENSURE FLOATING POINT ENTRY IS
CORRECT IN CONFIGURATION TABLE.
IF CORRECT, EXCHANGE PROCESSING
UNIT CARD
GO TO MAP 2070, ENTRY POINT PC.

LOCATION HEXADECIMAL 18A8 =
RETURN CODE
LOCATION HEXADECIMAL 18AA =
TEST THAT FAILED

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MAP 2000-12

U V W PROCESSING UNIT TEST
1 1 1
1 1 1 PAPER ONLY MAP

MAP 2000-13

PAGE 13 OF 14

042
AKR = 0X
SUSPECT STORAGE MODULE 000X

IF A PROGRAMMER CONSOLE
IS THE INPUT/OUTPUT:

REGISTER 0 = STEP NUMBER
REGISTER 1 = 000X = AKR.
REGISTER 2 = 000X = MODULE

GO TO MAP 2070,
ENTRY POINT MI.

043

- EXCHANGE STORAGE MODULE 0X.
 - OR -
- EXCHANGE STORAGE CARD
 ADDRESS = XXXXXX
- RUN THE FAILING DIAGNOSTIC
- IF SAME FAILURE, SUSPECT THE
 PROCESSOR CARD(S).

IF A PROGRAMMER CONSOLE
IS THE INPUT/OUTPUT:

REGISTER 0 = STEP NUMBER
REGISTER 1 = 000X = AKR
REGISTER 2 = 000X = MODULE
 OR
REGISTER 2 = 00XX STORAGE
REGISTER 3 = XXXX ADDRESS

GO TO MAP 2070, ENTRY POINT MR.

044

- EXCHANGE PROCESSING UNIT CARD.
IF NO REPAIR,

LOCATION HEXADECIMAL 18A8 =
RETURN CODE
LOCATION HEXADECIMAL 18AA =
TEST THAT FAILED

GO TO MAP 0070, ENTRY POINT A.

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MAP 2000-13

S
1
0

PROCESSING UNIT TEST

MAP 2000-14

PAPER ONLY MAP

PAGE 14 OF 14

045

- ENTER THE 16K BLOCK OF STORAGE
TO BE LOOPED.

AFTER YOU ENTER THE 16K BLOCK OF
STORAGE TO LOOP, THIS MESSAGE
WILL BE ON THE OUTPUT CONSOLE:

'ONE (1) LOOP COMPLETE.
LOOPING WILL CONTINUE ON
XXXXK STORAGE BLOCK.
NO MORE INFORMATIONAL MESSAGES'.

- SEE THE MAP PROLOG '2000'.
- FOLLOW THE DIRECTIONS IN PROLOG
2000, SECTION 4.3, LOOPING AND
OTHER OPTIONS.

046

(ENTRY POINT ED)

- SEE THE ERROR MESSAGE.

'ERROR DETECTED'
'GO TO MAP 2070 ENTRY POINT SI'

IS THIS THE ERROR MESSAGE?

Y N

|

| 047

| GOOD END OF TEST

|

048

FOLLOW THE INSTRUCTIONS IN MAP
2070.

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MAP 2000-14

STORAGE ISOLATION

PAGE 1 OF 25

ENTRY POINTS

FROM	ENTER THIS MAP		

MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER

0020	LL	3	002
0020	PR	16	074
0020	RK	6	023
0021	A	2	001
0021	DL	10	052
0021	LL	3	002
0021	PC	24	105
0021	PR	16	074
0021	PW	10	048
0021	RK	6	023
0022	PC	24	105
0023	A	2	001
0023	DL	10	052
0023	PC	24	105
0023	PW	10	048
0570	IP	14	062
2000	MR	21	097
2000	PC	24	105
2000	PR	16	074
2000	SI	16	080
2071	PC	24	105
3871	A	2	001

EXIT POINTS

EXIT THIS MAP		TO	

PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT

15	070	0020	ID
5	011	0020	LK
25	115	0020	PD
18	085	0020	PI
15	071	0170	A
5	013	1072	A
5	014	1072	A
5	017	1072	A
7	028	1072	A
7	029	1072	A
7	031	1072	A
7	036	1072	A
8	037	1072	A
8	039	1072	A
8	044	1072	A
9	045	1072	A
13	058	1072	A
6	027	1072	RC
3	003	2071	A
23	104	2071	A
25	110	2071	A
25	112	2071	A
25	114	2071	A
4	009	2071	CB

STORAGE ISOLATION

001
(ENTRY POINT A)

- SEE THE NOTE --->
- ENSURE THE DISKETTE UNIT IS NOT READY.
- POWER OFF THE 4956 UNIT.
- ENSURE THE MODE SWITCH IS IN DIAGNOSTIC POSITION.
- ENSURE THE IPL SOURCE SWITCH IS IN THE POSITION FOR THE DISKETTE UNIT (PRIMARY OR ALTERNATE).
- POWER ON THE 4956 UNIT.
- WAIT 15 SECONDS.
- SEE THE CONSOLE FOR CORRECT 'POWER ON' AS FOLLOWS:

WHEN USING THIS MAP:

- SEE MLD BINDER VOLUME ONE (1).
- SEE THE CORRECT PROGRAMMER CONSOLE ALD PA2XX.
- SEE THE CORRECT PROCESSING UNIT ALD A6XXX.

```

+-----+
| AFTER 15 SECONDS,          |
| POWER ON GOOD LEDS ARE:    |
+-----+
| THE POWER ON LED IS ON.    |
| CONSOLE IS SILENT (NO SOUND). |
+-----+
| DATA | STOP | LEVEL | OTHER |
| LEDS  | LED  | 0 LED | LEDS  |
+-----+
| FFFF  | ON   | ON    | OFF   |
+-----+

```

- SEE IF THE PROCESSING UNIT POWERED ON CORRECTLY.

IS THE CONSOLE AS NOTED ABOVE?

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

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6 3
A B

STORAGE ISOLATION

PAGE 5 OF 25

011

- PLACE THE MODE SWITCH IN THE DIAGNOSTIC POSITION.
- ENSURE THE IPL SOURCE SWITCH IS CORRECT.
GO TO MAP 0020,
ENTRY POINT LK.

012

- SEE IF THE 'AUDIBLE DEVICE' IS SOUNDING.

IS THE 'AUDIBLE DEVICE' SOUNDING?

Y N

013

- CHECK THE MODE SWITCH.
GO TO MAP 1072,
ENTRY POINT A.

IF NO REPAIR, RETURN HERE AND:

GO TO PAGE 14, STEP 062,
ENTRY POINT IP.

014

- CHECK THE LOAD KEY.
GO TO MAP 1072, ENTRY POINT A.

IF NO REPAIR, RETURN HERE AND:
GO TO PAGE 14, STEP 062,
ENTRY POINT IP.

015

- SEE THE LOAD LED.

IS THE LOAD LED ON?

Y N

|
|
|
|
|
|
|
|
|
|

M N

016

THE PROCESSING UNIT IS SUSPECT.

GO TO PAGE 24,
STEP 105,
ENTRY POINT PC.

017

- POWER OFF THE 4956 UNIT.
- TEST THE MODE SWITCH.

GO TO MAP 1072,
ENTRY POINT A.

IF NO REPAIR:

GO TO PAGE 24, STEP 105,
ENTRY POINT PC.

018

THE PROCESSING UNIT IS SUSPECT.
GO TO PAGE 24, STEP 105,
ENTRY POINT PC.

019

- ENSURE THE POLL JUMPERS ARE CORRECT.

EVERY OTHER CARD POSITION MUST HAVE A CARD INSTALLED, OR A POLL JUMPER MUST BE INSTALLED FROM PIN M11 TO PIN M12 IN ALL EMPTY CARD POSITIONS.

- SEE MLD VOLUME ONE (1), PROCESSING UNIT OR EXPANSION LOGICS (AXXXX).

IS POLL CORRECT?

Y N

|
|
|
|
|
|
|
|
|
|

020

CORRECT POLL AND:
- VERIFY THE REPAIR.

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6
P

A C P
2 3 5

4956J/K PROC UNIT

STORAGE ISOLATION

PAGE 6 OF 25

021

GO TO PAGE 24, STEP 105,
ENTRY POINT PC.

022

GO TO PAGE 16, STEP 080,
ENTRY POINT SI.

023

(ENTRY POINT RK)

- SEE THE DATA LEDS.
- WHEN THE RESET KEY IS PRESSED, LISTEN FOR THE CONSOLE AUDIBLE DEVICE TO SOUND.
- WHEN THE RESET KEY IS RELEASED, LISTEN FOR THE CONSOLE AUDIBLE DEVICE TO STOP AND THE DATA LEDS TO EQUAL '0000'.
- PRESS AND RELEASE THE RESET KEY.

```

+-----+
| AFTER 15 SECONDS, |
+-----+
| THE POWER ON LED IS ON. |
| CONSOLE IS SILENT (NO SOUND). |
+-----+
| DATA | STOP | LEVEL | OTHER |
| LEDS | LED | 0 LED | LEDS |
+-----+
| 0000 | ON | ON | OFF |
+-----+

```

DID THE RESET KEY CAUSE ALL THE ABOVE?

Y N

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

8

Q R

R

MAP 2070-6

|
|
|
|

024

THE RESET KEY OR AUDIBLE DEVICE IS SUSPECT.

DID THE RESET KEY CAUSE AN AUDIBLE?

Y N

025

- SEE THE DATA LEDS.

DO THE DATA LEDS EQUAL '0000' ?

Y N

026

- ENTER ON THE CONSOLE:

- PRESS AND RELEASE A DATA KEY.

IS THE CONSOLE AUDIBLE?

Y N

027

- TEST ROWS TO COLUMNS FOR A SHORT.

GO TO MAP 1072,
ENTRY POINT RC.

IF NO REPAIR,
GO TO PAGE 24,
STEP 105,
ENTRY POINT PC.

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7 7 7

S T U

MAP 2070-6

S T U 4956J/K PROC UN11
6 6 6

STORAGE ISOLATION

PAGE 7 OF 25

028
- TEST THE RESET KEY FOR AN
OPEN.
GO TO MAP 1072,
ENTRY POINT A.

IF NO REPAIR:
GO TO PAGE 24, STEP 105,
ENTRY POINT PC.

029
- TEST THE CONSOLE AUDIBLE
DEVICE.
GO TO MAP 1072, ENTRY POINT A.

IF NO REPAIR:
GO TO PAGE 24, STEP 105,
ENTRY POINT PC.

030
LISTEN TO THE CONSOLE.

- SEE IF THE AUDIBLE STOPPED
AFTER THE RESET KEY WAS
RELEASED.

DID THE AUDIBLE STOP?
Y N

031
THE INTERRUPT OR STORE KEY IS
SUSPECT.

- TEST THE FOLLOWING:
THE INTERRUPT KEY.
THE STORE KEY.
GO TO MAP 1072, ENTRY POINT A.

IF NO REPAIR:
GO TO PAGE 24, STEP 105,
ENTRY POINT PC.

032
- SEE THE DATA LEDS.

DO THE DATA LEDS EQUAL '0000'?
Y N

033
- SEE THE DATA LEDS.

DO THE DATA LEDS EQUAL '00E0'
OR '00E5'?
Y N

034
- SEE THE STOP AND POWER ON
LEDS.

ARE THE STOP AND POWER ON
LEDS ON ?
Y N

035
- SEE THE DATA LEDS.
- SEE IF ONE AND ONLY ONE
DATA LED IS ON.

IS ONE AND ONLY ONE DATA
LED ON?
Y N

036
- TEST THE RESET KEY.
GO TO MAP 1072,
ENTRY POINT A.

IF NO REPAIR:
GO TO PAGE 24,
STEP 105,
ENTRY POINT PC.

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8 8 8 8
W X Y Z

MAP 2070-7

V

W X Y Z
7 7 7 7

4956J/K PROC UNIT

STORAGE ISOLATION

PAGE 8 OF 25

037

THE DATA LED ON IS SUSPECT.

- TEST THE LED THAT IS ON.

GO TO MAP 1072,

ENTRY POINT A.

IF NO REPAIR:

GO TO PAGE 24,

STEP 105,

ENTRY POINT PC.

038

GO TO PAGE 3, STEP 002,

ENTRY POINT LL.

039

- POWER OFF THE 4956 UNIT.

- TEST THE RESET KEY AND THE
LOAD KEY FOR A SHORT.

GO TO MAP 1072, ENTRY POINT A.

IF NO REPAIR:

GO TO PAGE 24, STEP 105,

ENTRY POINT PC.

040

GO TO PAGE 24, STEP 105,

ENTRY POINT PC.

Q
6

MAP 2070-8

041

- PRESS THE LOAD KEY.

- SEE IF THE LOAD LED GOES ON AND
REMAINS ON.

DID THE LOAD LED GO ON AND REMAIN
ON?

Y N

042

- SEE IF THE LOAD LED FLASHED
ON AND OFF.

DID THE LOAD LED FLASH ON AND
OFF?

Y N

043

- SEE IF THE LOAD KEY CAUSES
AN AUDIBLE.

- PRESS THE LOAD KEY.

DID THE LOAD KEY CAUSE AN
AUDIBLE?

Y N

044

- CHECK THE LOAD KEY.

GO TO MAP 1072,

ENTRY POINT A.

IF NO REPAIR RETURN HERE
AND:

GO TO PAGE 24,

STEP 105,

ENTRY POINT PC.

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PN85X2513

9 9 9

ECA71494

PECA41061

A A A

A B C

MAP 2070-8

A A A 4956J/K PROC UNIT
A B C
8 8 8 STORAGE ISOLATION

MAP 2070-9

| | | PAGE 9 OF 25

| | |
| | |
| | | 045
| | | - CHECK THE LOAD LED.
| | | GO TO MAP 1072,
| | | ENTRY POINT A.

| | | -----
| | | IF NO REPAIR RETURN HERE AND:
| | | GO TO PAGE 24, STEP 105,
| | | ENTRY POINT PC.

| | |
| | | 046
| | | - ENSURE THE MODE AND SELECT
| | | SWITCHES ARE CORRECT.

| | | IF THE MODE AND SELECT SWITCHES
| | | ARE CORRECT:
| | | GO TO PAGE 24, STEP 105,
| | | ENTRY POINT PC.

| | |
| | | 047
| | | - PRESS THE RESET KEY.
| | | - ENSURE THE BASIC DIAGNOSTIC
| | | DISKETTE IS INSTALLED.
| | | - ENSURE THE DISKETTE UNIT IS
| | | READY.
| | | - ENSURE THE MODE AND SELECT
| | | SWITCHES ARE CORRECT.
| | | - PRESS THE LOAD KEY.
| | | - WAIT ONE MINUTE.

WAIT FOR A MESSAGE AS FOLLOWS:

IF USING PROGRAMMER/C E CONSOLE:

'RDY ENTER'

DATA LEDS = 3800
3800 = RDY ENTER

IS THERE A RDY ENTER MESSAGE AS
NOTED?

Y N

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

1 1
5 0
A A
D E

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ECA71494 PECA41061

MAP 2070-9

A 4956J/K PROC UNIT
E
9 STORAGE ISOLATION

PAGE 10 OF 25

048
(ENTRY POINT PW)

- SEE THE DATA LEDS.

PROCESSING UNIT STOPS:

0E00
0E05

DO THE DATA LEDS EQUAL ANY OF THE ABOVE ?

Y N

049

- SEE THE DATA LEDS.

THESE ARE IPL STOPS:

00E0
00E5

DO THE DATA LEDS EQUAL ANY OF THE ABOVE ?

Y N

050

- SEE THE DATA LEDS.

THESE ARE STOPS IF YOU CANNOT IPL THE DISKETTE.

006A
EEEE (FLASHING)

DO THE DATA LEDS EQUAL ANY OF THE ABOVE ?

Y N

1 1 1 |
5 5 5 |
A A A A |
F G H J |

A MAP 2070-10
J

051
- SEE THE DATA LEDS.

NOT EXPECTED INTERRUPT:

0260

DO THE DATA LEDS EQUAL THIS VALUE ?

Y N

052

(ENTRY POINT DL)

- SEE THE DATA LEDS.

THESE ARE PROCESSING UNIT STOPS:

0006 - ERROR IN 495X UNIT TEST
0232 - MACHINE CHECK
0234 - PROGRAM CHECK
0236 - SUPERVISOR CALL
0238 - POWER THERMAL WARNING
023A - TRACE
023C - A SOFT EXCEPTION
023E - CLOCK
0240 - CLASS INTERRUPT UNKNOWN
03EA - ERROR IN 495X UNIT TEST
0416 - ERROR IN 495X UNIT TEST

FOR ALL THE ABOVE CLASS INTERRUPT PROCESSING UNIT STOPS (0232 - 0240), THE LSB START ADDRESS IS AT HEXADECIMAL '0240'.

DO THE DATA LEDS EQUAL ANY OF THE ABOVE ?

Y N

1 1 1 |
5 4 1 |
A A A |
K L M |
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ECA71494 PECA41061
MAP 2070-10

054
- SEE THE DATA LEDS.

THESE ARE IPL SOURCE ERRORS:

0330 \$ INTERRUPT CONDITION CODE
ERROR FROM THE IPL SOURCE.
THE RETRY NUMBER = 0.
% CYCLE STEAL STATUS AT 0240
02 STATUS WORDS IF A 4964.
13 STATUS WORDS IF A 4966.
0338 - NOT EXPECTED INTERRUPT IPL
0346 - NOT CORRECT DEVICE ADDRESS
FROM INTERRUPT IS IN REG 7
037E # RECAL OIO INSTRUCTION
0392 # SEEK/READ OIO INSTRUCTION
0A6C \$ INITIAL IPL INTERRUPT
0AB0 # OIO READ DEVICE ID ERROR
0ADA - READ DEVICE ID ERROR.
% RECEIVE ID AT ADDRESS 026E
0B0C # OIO INSTRUCTION TO PREPARE

NEXT FIVE ARE 4964 ONLY
0B24 # READ DIAGNOSE INSTRUCTION
0B36 - PAGE 0 CHECKSUM DIAG ERROR
0B46 - PAGE 1 CHECKSUM DIAG ERROR
0B4E * DIAGNOSE BYTE 11 NOT 00.
0B5A * DIAGNOSE WORD 6 NOT 6E00.

0B6A # OIO INSTRUCTION TO RECAL.
0B74 - THE DDB ADDRESS IN REG 1
IS NOT CORRECT.
0B8C # OIO INSTRUCT READ SECT ID
0BDA - IPL READ SECTOR ID ERROR
% SECTOR ID BUFFER AT 0D20
TWO (2) WORDS IF A 4964.
+ FOUR (4) WORDS IF A 4966.

\$ EXPECTED A CONDITION CODE OF 03
EXPECTED A CONDITION CODE OF 07
% THIS IS A HEXADECIMAL ADDRESS.
* DIAGNOSTIC BUFFER START ADDRESS
IS HEXADECIMAL '0D00'.
SEE HEXADECIMAL '3100' FOR
RESIDUAL STATUS BUFFER
NOT 4964.

DO THE DATA LEDS EQUAL ANY OF THE
ABOVE?

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

1 1
4 3
A A
Q R

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A 4956J/K PROC UNIT
R
1 STORAGE ISOLATION
2
PAGE 13 OF 25

MAP 2070-13

055

- SEE IF THE FAILURE INDICATION
WAS IN A 2XXX DIAGNOSTIC.

DATA LEDS = 2XXX OR 2XXX LOADED
MESSAGE DISPLAYED.

WAS THE FAILURE INDICATION IN A
2XXX DIAGNOSTIC?

Y N

056

- SEE IF THERE IS A KEY
PROBLEM WITH THE BASIC OR
PROGRAMMER CONSOLE.

WAS THE FAILURE INDICATION AS
NOTED ABOVE?

Y N

057

GO TO PAGE 24, STEP 105,
ENTRY POINT PC.

058

(ENTRY POINT KE)

- TEST THE KEY(S) THAT ARE NOT
CORRECT.

GO TO MAP 1072, ENTRY POINT A.

IF NO REPAIR:

GO TO PAGE 24, STEP 105,
ENTRY POINT PC.

059

THERE MAY BE A STORAGE PROBLEM.
GO TO PAGE 3, STEP 002,
ENTRY POINT LL.

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MAP 2070-13

A A 4956J/K PROC UNIT
N Q
1 1 STORAGE ISOLATION
1 2
PAGE 14 OF 25

```
| |  
| |  
| 060  
| +-----+  
| | SEE IPL DEVICE. SEE MAPS  
| | FOR THE IPL DEVICE.  
| |-----+  
| | IF IPL |  
| | DEVICE | GO TO MAP:  
| |-----+  
| | 495XC |0380, ENTRY POINT A.  
| |-----+  
| | 495XD |0480, ENTRY POINT A.  
| |-----+  
| |4956-EXX|0480, ENTRY POINT A.  
| |-----+  
| | MCA |0580, ENTRY POINT A.  
| |-----+  
| | 4962 |0180, ENTRY POINT A.  
| |-----+  
| | 4964 |0180, ENTRY POINT A.  
| |-----+  
| | 4966 |0290, ENTRY POINT A.  
| |-----+  
| | 4965 |0380, ENTRY POINT A.  
| |-----+  
| | 4965D |0480, ENTRY POINT A.  
| |-----+  
| |
```

061
THE INTERRUPT FROM THE IPL DEVICE
WAS LOST.

- EXCHANGE THE IPL DEVICE
ATTACHMENT CARD.

IF NO REPAIR,
GO TO PAGE 24, STEP 105,
ENTRY POINT PC.

A MAP 2070-14
L
1
0

```
| |  
| |  
| 062  
| (ENTRY POINT IP)  
| - SEE THE DATA LEDS.  
| THIS IS POWER THERMAL WARNING.
```

0238

DO THE DATA LEDS EQUAL 0238?
Y N

```
| |  
| 063  
| GO TO PAGE 24, STEP 105,  
| ENTRY POINT PC.  
|
```

064
THIS IS A POSSIBLE POWER SUPPLY
PROBLEM.
THE 'PTWN' LINE AND POWER SUPPLY
IS SUSPECT.
- GO TO THE CORRECT POWER SUPPLY
MAP FOR THIS SYSTEM.
- SEE MAP 1470 FOR POWER SUPPLY
INFORMATION.

IF NO REPAIR, RETURN HERE AND:
GO TO PAGE 24, STEP 105,
ENTRY POINT PC.

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MAP 2070-14

A 4956J/K PROC UNIT
K
1 STORAGE ISOLATION
0
PAGE 15 OF 25

065
THIS IS A NOT KNOWN INTERRUPT.
- PRESS THE REGISTER SEVEN (7)
KEY.

THE CONTENTS OF REGISTER SEVEN
(7) IS AS FOLLOWS:
XXAA
AA = DEVICE ADDRESS
THE DEVICE ADDRESS OF THE
INTERRUPTING SOURCE IS 'AA'.

- SEE IF THE 'AA' ADDRESS FROM R7
AND THE ADDRESS OF THE IPL
DEVICE YOU ARE USING ARE THE
SAME.

ARE THE ADDRESSES THE SAME?
Y N

066
- SEE THE DEVICE ADDRESSES OF
THE ATTACHMENTS INSTALLED ON
THE SYSTEM. SEE IF THE
DEVICE ADDRESS FROM R7 (AA)
IS INSTALLED ON THE SYSTEM.

IS THE ADDRESS (AA) FOR A
DEVICE INSTALLED ON THE SYSTEM?
Y N

067
GO TO PAGE 24, STEP 105,
ENTRY POINT PC.

A A
S T

A A A A A A MAP 2070-15
D F G H S T
9 1 1 1
0 0 0 | |

30MAR87 PN85X2513

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MAP 2070-15

074
(ENTRY POINT PR)

A 4956 PROCESSING UNIT IS
INSTALLED.

- POWER OFF THE 4956 UNIT.
- POWER ON THE 4956 UNIT.
- SEE IF THE DATA LEDS = XX85 OR XX8A.

DO THE DATA LEDS = XX85 OR XX8A?

Y N

| 075
| SEE THE ERROR THAT SENT YOU
| HERE.

| WAS THE ERROR THAT SENT YOU
| HERE?
| EXPECTED XXXXXX
| RECEIVED YYYYYY
| Y N

| 076
| GO TO PAGE 17, STEP 082,
| ENTRY POINT ST.

A A
U V

A A
U V

|
|
|
|
| 077
| THE FAILURE MAY BE:
| - ANY ADDITIONAL STORAGE CARD
| INSTALLED
| - STORAGE CROSSOVER CONNECTORS
| - PROCESSOR CARD

| INSPECT THE CROSSOVER
| CONNECTORS, USE A METER IF
| NECESSARY.
| EXCHANGE THE CARDS ONE AT A
| TIME AND TEST AFTER EACH CARD
| IS EXCHANGED. REPLACE ONLY THE
| CARD OR CONNECTOR THAT CORRECTS
| THE PROBLEM.

| IS THE SYSTEM REPAIRED?
| Y N

| 078
| GO TO PAGE 24, STEP 105,
| ENTRY POINT PC.

| 079
| - VERIFY THE REPAIR.

080
(ENTRY POINT SI)

SUSPECT STORAGE ERROR

ARE ANY ADDITIONAL STORAGE CARD
INSTALLED?

Y N

| 081
| GO TO PAGE 24, STEP 105,
| ENTRY POINT PC.

1
7
A
W

30MAR87 PN85X2513

ECA71494 PECA41061

A
Y
1
7

4956J/K PROC UNIT

MAP 2070-18

STORAGE ISOLATION

PAGE 18 OF 25

|
|

083

- POWER OFF THE 4956 UNIT.
- REINSTALL THE FIRST STORAGE CARD NEXT TO THE PROCESSOR.
- INSTALL THE TOP CARD CONNECTORS BETWEEN THE STORAGE CARD AND THE PROCESSOR.
- ENSURE THE POLL JUMPERS ARE CORRECT.

IN A SYSTEM WITH MIXED SIZE STORAGE CARDS (2048 AND 4096) THE CARD NEXT TO THE PROCESSOR MUST BE THE LARGEST OF THE STORAGE CARDS FOLLOWED BY THE NEXT LARGEST.

EVERY OTHER CARD POSITION MUST HAVE A CARD INSTALLED, OR A POLL JUMPER MUST BE INSTALLED FROM PIN M11 TO PIN M12 IN ALL EMPTY CARD POSITIONS.

- SEE MLD VOLUME ONE (1), PROCESSING UNIT OR EXPANSION LOGICS (AXXXX).
- POWER ON THE 4956 UNIT.
- RUN DIAGNOSTICS TO SEE FAILURE IF NECESSARY.

DID THE SAME FAILURE OCCUR?

Y N

|

| 084

| (ENTRY POINT AM)

|

|

| ARE ANY MORE STORAGE CARDS UNSEATED?

| Y N

| |

| | 085

| | PROBLEM MAY BE INTERMITTENT

| | LOOP STORAGE TEST

| | GO TO MAP 0020,

| | ENTRY POINT PI.

| |

| |

| |

| |

| |

| |

1 1

9 9

A B

Z A

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MAP 2070-18

B 4956J/K PROC UNIT
A
1 STORAGE ISOLATION
8
PAGE 19 OF 25

|
|
086

- POWER OFF THE 4956 UNIT.
- REINSTALL THE NEXT STORAGE CARD
- INSTALL THE TOP CARD CONNECTORS BETWEEN THE STORAGE CARDS
- ENSURE THE POLL JUMPERS ARE CORRECT.

EVERY OTHER CARD POSITION MUST HAVE A CARD INSTALLED, OR A POLL JUMPER MUST BE INSTALLED FROM PIN M11 TO PIN M12 IN ALL EMPTY CARD POSITIONS.

- SEE MLD VOLUME ONE (1), PROCESSING UNIT OR EXPANSION LOGICS (AXXX).
- POWER ON THE 4956 UNIT.
- RUN DIAGNOSTICS TO SEE FAILURE IF NECESSARY.

DID THE SAME FAILURE OCCUR?

Y N

|
| 087
| GO TO PAGE 18, STEP 084,
| ENTRY POINT AM.

|
088
GO TO STEP 089,
ENTRY POINT BS.

A MAP 2070-19
Z
1
8

|
|
089

(ENTRY POINT BS)

- POWER OFF THE 4956 UNIT.
- USE A METER TO CHECK THE TOP CARD CONNECTORS FOR AN OPEN OR A SHORT.

ARE THE CONNECTOR GOOD?

Y N

|
| 090
| REPLACE THE DEFECTIVE CONNECTER
| - VERIFY THE REPAIR.

|
091

- POWER OFF THE 4956 UNIT.
- THE FAILURE MAY BE:
 - THE LAST STORAGE CARD INSTALLED
 - ANY OTHER ADDITIONAL STORAGE CARD INSTALLED
 - PROCESSOR CARD

EXCHANGE THE CARDS ONE AT A TIME AND TEST AFTER EACH CARD IS EXCHANGED. REPLACE ONLY THE CARD THAT CORRECTS THE PROBLEM.

IS THE SYSTEM REPAIRED?

Y N

|
| 092
| GO TO PAGE 24, STEP 105,
| ENTRY POINT PC.

|
093

- VERIFY THE REPAIR.

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MAP 2070-19

A
X
1
7
|
|
094

4956J/K PROC UNIT
STORAGE ISOLATION
PAGE 20 OF 25

MAP 2070-20

GO TO PAGE 24, STEP 105,
ENTRY POINT PC.

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MAP 2070-20

STORAGE ISOLATION

PAGE 21 OF 25

095
(ENTRY POINT RM)

- ENTER ON ALTERNATE CONSOLE:

B2000 ENTER OR RETURN

- WAIT FIFTEEN (30) MINUTES FOR AN ERROR MESSAGE.

IS THERE AN ERROR MESSAGE?

Y N

|
| 096
| GO TO PAGE 23, STEP 102,
| ENTRY POINT DG.
|

097
(ENTRY POINT MR)

- SEE THE NOTE --->
- SEE THE ERROR MESSAGE:

ADDRESS = XXXXXX

WAS A FAILING ADDRESS GIVEN IN THE ERROR MESSAGE?

Y N

|
| 098
| - FOLLOW THE ERROR MESSAGE
| INSTRUCTIONS.
| - IF NO REPAIR
| GO TO PAGE 24, STEP 105,
| ENTRY POINT PC.
|
|
|
|
|
|
|

- ENTER ON PROGRAMMER CONSOLE:

(D) B (I)
(D) 2000 (I) (I)

- WAIT FOR 2XXX IN THE DATA LEDS, WITH THE RUN LED OFF.

IF A PROGRAMMER/C E CONSOLE:

DATA LEDS = MAP NUMBER
REGISTER 0 = STEP NUMBER
REGISTER 1 = 00XX ADDRESS
REGISTER 2 = XXXX ADDRESS

2
2
B
B

B 4956J/K PROC UNIT
B
2 STORAGE ISOLATION
1
PAGE 22 OF 25

MAP 2070-22

|
|
099

- SEE PROLOG 2000 FOR A CHART OF STORAGE ADDRESS LOCATIONS.
- SEE LOGIC AXXXX.
- EXCHANGE THE SUSPECT STORAGE.

IS THE SYSTEM REPAIRED?

Y N

|
| 100
| THE PROCESSING UNIT CARD MAY BE
| BAD.
| GO TO PAGE 24, STEP 105,
| ENTRY POINT PC.

|
101

- VERIFY THE REPAIR.

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MAP 2070-22

102
(ENTRY POINT DG)

DIAGNOSTIC LIST/TEST DESCRIPTION

02600

- 1. PARITY CHECK.
- 2. MAIN STORAGE TEST LOWER 64K.
- 3. PROCESSING UNIT BASIC.
- 4. DIAGNOSTIC OPERATION TEST.

02601

- 1. REGISTER READ AND CHECK.
- 2. PROCESSING UNIT BASIC.

02602

- 1. PROCESSING UNIT BASIC.

02603

- 1. PROCESSING UNIT BASIC.
- 2. PROGRAM CHECK.
- 3. SUPERVISOR CALL.

- SEE IF ALL '2XXX' DIAGNOSTICS WORKED CORRECTLY.
- SEE IF ALL '2XXX' MAPS HAD NO 'ERROR INDICATIONS'.

IF THERE WAS A FAILURE INDICATION IN A '2XXX' DIAGNOSTIC OR MAP, ANSWER THE FOLLOWING QUESTION 'NO'.

DID ALL '2XXX' MAPS AND DIAGNOSTICS RUN CORRECTLY?

Y N

|
 | 103
 | GO TO PAGE 24, STEP 105,
 | ENTRY POINT PC.
 |

104
GO TO MAP 2071, ENTRY POINT A.

DIAGNOSTIC LIST/TEST, CONTINUED

02604

- 1. NOT VALID PROCESSING UNIT FUNCTION(S) TESTED.
- 2. PROGRAM LEVEL.
- 3. TRACE

02605

- 1. TIMER
- 2. EXPANDER INSTRUCTIONS.

02606

- 1. EXPANDER OPERATION.
- 2. UPPER STORAGE MORE THAN 64K.

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B B 4956J/K PROC UNIT
C D
2 2 STORAGE ISOLATION
4 4

MAP 2070-25

PAGE 25 OF 25

| |
| |
| 110
| GO TO MAP 2071, ENTRY POINT A.

|
111
THERE MAY BE A STORAGE ERROR.

ARE ANY ADDITIONAL STORAGE CARDS
INSTALLED?

Y N

|
| 112
| GO TO MAP 2071, ENTRY POINT A.

|
113
- ENSURE THE DISKETTE UNIT IS
READY.
- PRESS THE LOAD KEY.

DID THE ALTERNATE CONSOLE PRINT
OR DISPLAY A MESSAGE?

Y N

|
| 114
| GO TO MAP 2071, ENTRY POINT A.

|
115
SUSPECT STORAGE
GO TO MAP 0020, ENTRY POINT PD.

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MAP 2070-25

PAPER ONLY MAP

PAGE 1 OF 56

ENTRY POINTS

FROM	ENTER THIS MAP		

MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER

2000	A	2	001
2000	AD	8	022
2000	CA	25	085
2000	CB	27	092
2000	CS	17	045
2000	KB	7	019
2000	LC	37	126
2000	LD	53	193
2000	PS	2	002
2000	PT	4	009

EXIT POINTS

EXIT THIS MAP		TO	

PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT

56	208	0020	A
7	018	0070	A
56	209	0070	A
56	214	0070	A
28	101	0070	SF
18	048	1071	A
18	049	1071	A
18	050	1071	A
18	051	1071	A
19	055	1071	A
19	056	1071	A
19	057	1071	A
20	058	1071	A
21	060	1071	A
21	061	1071	A
23	071	1071	A
3	004	1470	A
4	007	1470	A
5	011	1470	A
6	013	1470	A
6	015	1470	A
7	018	2070	PC
12	032	2070	PC
19	055	2070	PC
22	064	2070	PC
23	067	2070	PC
23	068	2070	PC
23	072	2070	PC
24	078	2070	PC
27	090	2070	PC
40	135	2070	PC
40	137	2070	PC
41	143	2070	PC
55	200	2070	PC
55	205	2070	PC

001

(ENTRY POINT A)

- SEE IF YOU HAVE TESTED THE VOLTAGES TO THE PROCESSING UNIT CARD AND BOARD. IF YOU HAVE TESTED FOR CORRECT VOLTAGES, ANSWER THE FOLLOWING QUESTION 'YES'.

HAVE YOU TESTED FOR CORRECT VOLTAGES?

Y N

002

(ENTRY POINT PS)

- SEE THE NOTE ---->
- USE THE CSR METER OR EQUIVALENT.
- SET THE METER TO THE CORRECT VOLTAGE SCALE.
- MEASURE THE VOLTAGE(S) AS NOTED.
- PROBE THE PROCESSING UNIT AND/OR I/O CARD LOCATIONS FOR THE CORRECT VOLTAGES.
- TEST FOR THE CORRECT VOLTAGES AT THE PINS IN CHART.
- REFERANCE VOLTAGE TO PIN D08

SEE PROCESSING UNIT LOGIC AXXXX FOR CARD AND PIN LOCATIONS	
TO TEST VOLTAGE	TEST PIN(S)
+5V	D03 J03 P03 U03
-5V	G06
+8.5V	G11

IS A VOLTAGE PRESENT ON EACH PIN?

Y N

| |
 | |
 | |
 | |
 | |
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C
2

POWER AND CONSOLE

MAP 2071-3

PAPER ONLY MAP

PAGE 3 OF 56

003

- SEE THE VOLTAGE THAT IS NOT CORRECT.
- SEE THE NOTE --->
- POWER OFF THE PROCESSING UNIT.
- SEE THE POWER DISTRIBUTION CABLES WHICH SHOULD BE SUPPLYING THE MISSING VOLTAGE(S).
- REMOVE THE POWER CABLES FROM THE PROCESSING UNIT BOARD.
- POWER ON THE PROCESSING UNIT.
- TEST FOR THE VOLTAGES AT THE END OF THE POWER CABLES REMOVED.

BOARD VOLTAGES	
TO TEST VOLTAGE	TEST CABLE PIN:
+5V	X2D03
-5V	X3B11
+8.5V	X3B06

X = POWER CABLE.

ARE THE VOLTAGES PRESENT AT THE CABLE END?

Y N

004

- POWER OFF THE PROCESSING UNIT.
- PLUG THE CABLES ON THE PROCESSING UNIT BOARD.
- SEE THE POWER SUPPLY VOLTAGES THAT ARE NOT CORRECT.
- GO TO MAP 1470, ENTRY POINT A.

005

- POWER OFF THE PROCESSING UNIT.

IF THE PINS AND CONNECTORS ARE CORRECT:

- REPLACE/REPAIR THE BOARD.
- VERIFY THE REPAIR.

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MAP 2071-3

A B
2 2

POWER AND CONSOLE

MAP 2071-4

PAPER ONLY MAP

PAGE 4 OF 56

| |
| |
| |
| |
| 006
| ARE THE VOLTAGES CORRECT ON THE
| PINS?
| Y N

| |
| | 007
| | - SEE THE POWER SUPPLY
| | VOLTAGES THAT ARE NOT
| | CORRECT.
| | GO TO MAP 1470,
| | ENTRY POINT A.

| |
| 008
| GO TO STEP 009,
| ENTRY POINT PT.

| -
009
(ENTRY POINT PT)

- SEE IF YOU HAVE TESTED 'POWER
ON RESET'.

IF YOU HAVE TESTED POWER ON
RESET, ANSWER THE QUESTION YES.

IF YOU HAVE NOT TESTED POWER ON
RESET, ANSWER THE QUESTION NO.

IF YOU SUSPECT POWER ON RESET IS
NOT CORRECT, ANSWER THE QUESTION
NO.

HAVE YOU TESTED 'POWER ON RESET'?
Y N

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

7 5
D E

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MAP 2071-4

E
4

POWER AND CONSOLE

MAP 2071-5

PAPER ONLY MAP

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010

THE 'POWER ON RESET' LINE IS SUSPECT.

- SEE THE NOTE --->
- POWER ON THE PROCESSING UNIT.
- PROBE THE 'POWER ON RESET' PIN
 - S05 - AT THE PROCESSING UNIT CARD POSITION(S).
- SEE CORRECT LOGIC, AXXXX.

- USE LOGIC PROBE 2 OR SIMILAR.
- SET THE TECHNOLOGY SWITCH TO 'MULTI'.
- SET LATCH SWITCH TO 'NONE'.
- SET GATE REF SWITCH TO 'GND'.
- PLUG RED (+) WIRE OF POWER CABLE ON +5 V.
- PLUG BLACK WIRE OF CABLE ON GROUND PIN.

```

+-----+
| LINE NAME | PIN |
+-----+-----+
| POWER ON RESET | S05 |
+-----+-----+

```

GROUND AND +5 VOLTS IS ON ANY I/O POSITION OF THE 495X BOARD.

```

+-----+ +-----+
| PROBE | LOGIC | | GROUND | +5V |
| INDICATOR | PROBES | | D08 | D03 |
+-----+-----+ | P08 | P03 |
| UP | DOWN | MEANING | | U08 | U03 |
+-----+-----+ +-----+
| 0 | 0 | * | |
| 1 | 0 | UP | |
| 0 | 1 | DOWN | |
| 1 | 1 | PULSING | |
+-----+-----+

```

* SIGNAL VOLTAGE IS NOT CORRECT OR NO VOLTAGE.

THE LOGIC PROBE 2 AND ITS USE IS IN MANUAL 'SY27-0127-X' OR MAP 0010, SECTION 11.00.00.

IS THE LINE UP?

Y N

011

GO TO MAP 1470, ENTRY POINT A.

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6
F

MAP 2071-5

F
5

POWER AND CONSOLE

PAPER ONLY MAP

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012

- POWER OFF THE PROCESSING UNIT.

OBSERVE THE LOGIC PROBE WHEN THE PROCESSING UNIT POWER IS TURNED ON. THE LEVEL SHOULD BE DOWN FOR ABOUT A SECOND, THEN GO UP AND STAY UP.

- POWER ON THE PROCESSING UNIT.

DID THE PROBE INDICATOR GO DOWN?
Y N

013

GO TO MAP 1470, ENTRY POINT A.

014

- SEE THE LOGIC PROBE INDICATOR.
- SEE IF THE LOGIC PROBE IS UP AFTER ONE (1) SECOND.

AFTER THE PROBE INDICATOR WENT DOWN, DID IT GO UP?

Y N

015

GO TO MAP 1470, ENTRY POINT A.

G

G

MAP 2071-6

016

POWER ON RESET IS CORRECT ON THE BOARD. POWER ON RESET MAY NOT BE CORRECT ON THE PROCESSING UNIT CARD.

- SEE IF THE ORIGINAL PROBLEM WAS WHEN THE PROCESSING UNIT WAS POWERED ON

```

+-----+
| SEE 495X INSTALLED. |
| AFTER FIFTEEN (15) SECONDS, |
| THE POWER ON LED IS ON. |
| CONSOLE SILENT (NO SOUND). |
| DATA LEDS ARE FFFF AND: |
+-----+
| PROCESSING | STOP | LEVEL |
| UNIT TYPE: | LED | 0 LED |
+-----+
| 4952/53    | ON  | ON    |
+-----+
| 4956EXX/H/J/K | ON  | ON    |
+-----+
| 495X OTHER  | ON  | OFF   |
+-----+
| ALL OTHER LEDS OFF. |
+-----+

```

- IF THE POWER ON WAS CORRECT AS NOTED IN CHART, ANSWER THE QUESTION 'NO'.

WAS THE ORIGINAL PROBLEM 'BAD POWER ON INDICATIONS?'

Y N

017

GO TO PAGE 7, STEP 019,
ENTRY POINT KB.

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7
H

MAP 2071-6

N
7

POWER AND CONSOLE

MAP 2071-8

PAPER ONLY MAP

PAGE 8 OF 56

022
(ENTRY POINT AD)

- SEE THE PROCESSING UNIT
INSTALLED.

IS THE PROCESSING UNIT INSTALLED
A 4954/56?

Y N

023

THE PROCESSING UNIT INSTALLED
IS NOT A 4954/56.

SEE LOGICS AXXXX. THE TABLES
ARE FOR REFERENCE ONLY.

CABLE	TOP CARD CONNECTOR			
	495X		4955	
C1	X	DATA	X	
* C2	YL	ADDRESS	WL	
C3	W	ROS	W	

* C2 IS A HALF CABLE

- RECORD THE CONSOLE DATA AND THE STATUS OF THE LOAD LED.
- DISCONNECT CONSOLE CABLE C3 FROM TOP CARD CONNECTOR W

()	=	CABLE OFF
*	=	JUMPER ON
C1	C2	(C3)

IS THE CONSOLE SILENT?

Y N

2 1
1 1 9
P Q R

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MAP 2071-8

R
8

POWER AND CONSOLE

MAP 2071-9

PAPER ONLY MAP

PAGE 9 OF 56

024

- DISCONNECT CONSOLE CABLE C2
FROM TOP CARD CONNECTOR.

() = CABLE OFF
* = JUMPER ON
C1 (C2) (C3)

IS THE CONSOLE SILENT?

Y N

025

- DISCONNECT CONSOLE CABLE C1
FROM TOP CARD CONNECTOR X

() = CABLE OFF
* = JUMPER ON
(C1) (C2) (C3)

IS THE CONSOLE SILENT?

Y N

026

INSPECT THE CONSOLE FOR A
GROUND OR A SHORT TO THE
AUDIBLE DEVICE C3-B11.

PROCESS GO TO MAP 107X
UNIT IS ENTRY POINT A.
495X 1071
4954/56 1072
IF NO REPAIR, GO TO MAP
2070, ENTRY POINT PC.

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MAP 2071-9

1 1
1 0
S T

T
9

POWER AND CONSOLE

MAP 2071-10

PAPER ONLY MAP

PAGE 10 OF 56

027

CABLE C1 TO THE AUDIBLE DEVICE

- INSPECT THE CONSOLE FOR A SHORT FROM THE DATA INDICATOR THAT WAS ACTIVE TO THE AUDIBLE DEVICE.
- INSPECT THE CONSOLE FOR A SHORT FROM COLUMN 1 TO THE AUDIBLE DEVICE.
- INSPECT THE CONSOLE FOR A SHORT FROM COLUMN 7 TO THE AUDIBLE DEVICE.

```
+-----+
|PROCESS| GO TO MAP 107X |
|UNIT IS| ENTRY POINT A. |
|-----+-----|
| 495X  |      1071      |
|-----+-----|
|4954/56|      1072      |
|-----+-----|
| IF NO REPAIR, GO TO MAP|
| 2070, ENTRY POINT PC.  |
+-----+-----+
```

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MAP 2071-10

Q S
8 9

POWER AND CONSOLE

MAP 2071-11

PAPER ONLY MAP

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028

CONSOLE C2 TO THE AUDIBLE
DEVICE

- INSPECT THE CONSOLE FOR A SHORT FROM THE LEVEL INDICATOR THAT WAS ACTIVE TO THE AUDIBLE DEVICE.
- INSPECT THE CONSOLE FOR A SHORT FROM COLUMNS 2 THROUGH 6 TO THE AUDIBLE DEVICE.

```

+-----+
|PROCESS| GO TO MAP 107X |
|UNIT IS| ENTRY POINT A. |
+-----+
| 495X  | 1071 |
+-----+
|4954/56| 1072 |
+-----+
| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC. |
+-----+

```

029

- CONNECT A JUMPER FROM THE AUDIBLE DEVICE ON CABLE CONNECTOR C3-B11 TO THE TOP CARD CONNECTOR 'W' PIN 31.

```

+-----+
| ( ) = CABLE OFF |
| * = JUMPER ON |
+-----+
| C1 C2 *(C3) |
+-----+

```

IS THE CONSOLE SILENT?

Y N

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

1 1
5 2
U V

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MAP 2071-11

V
1
1

POWER AND CONSOLE

MAP 2071-12

PAPER ONLY MAP

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030

- DISCONNECT CONSOLE CABLE C1
FROM TOP CARD CONNECTOR X

```
+-----+  
| ( ) = CABLE OFF |  
| *   = JUMPER ON  |  
+-----+  
| (C1)  C2  *(C3)  |  
+-----+
```

IS THE CONSOLE SILENT?

Y N

031

- DISCONNECT CONSOLE CABLE C2
FROM TOP CARD CONNECTOR.

```
+-----+  
| ( ) = CABLE OFF |  
| *   = JUMPER ON  |  
+-----+  
| (C1) (C2) *(C3)  |  
+-----+
```

IS THE CONSOLE SILENT?

Y N

032

GO TO MAP 2070,
ENTRY POINT PC.

1 1
3 3
W X

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PECA41061

MAP 2071-12

Z POWER AND CONSOLE
1
3 PAPER ONLY MAP
| PAGE 14 OF 56
|
|
035
C1

MAP 2071-14

- INSPECT THE CONSOLE FOR A SHORT
IN THE LEVEL INDICATOR THAT WAS
ACTIVE TO COLUMN 1 AND COLUMN
7.

```
+-----+  
|PROCESS| GO TO MAP 107X |  
|UNIT IS| ENTRY POINT A. |  
+-----+  
| 495X | 1071 |  
+-----+  
|4954/56| 1072 |  
+-----+  
| IF NO REPAIR, GO TO MAP |  
| 2070, ENTRY POINT PC. |  
+-----+
```

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MAP 2071-14

U Y POWER AND CONSOLE
1 1
1 3 PAPER ONLY MAP

MAP 2071-15

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036
C1-C2

- INSPECT THE CONSOLE FOR A SHORT IN THE LEVEL INDICATOR THAT WAS ACTIVE TO COLUMN 1 AND COLUMN 7.
- INSPECT THE CONSOLE FOR A SHORT IN THE DATA INDICATOR THAT WAS ACTIVE TO COLUMN 2 THROUGH COLUMN 6.

```
+-----+
|PROCESS| GO TO MAP 107X |
|UNIT IS| ENTRY POINT A. |
+-----+
| 495X | 1071 |
+-----+
|4954/56| 1072 |
+-----+
| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC. |
+-----+
```

037

- DISCONNECT THE JUMPER FROM W-31 AND C3-B11.
- DISCONNECT CONSOLE CABLE C1 FROM TOP CARD CONNECTOR X
- CONNECT CONSOLE CABLE C3 TO TOP CARD CONNECTOR W

```
+-----+
| ( ) = CABLE OFF |
| * = JUMPER ON |
+-----+
| (C1) C2 C3 |
+-----+
```

IS THE CONSOLE SILENT?

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

2 1
0 6
A A
A B

30MAR87 PN6060925

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MAP 2071-15

A POWER AND CONSOLE
N
1 PAPER ONLY MAP
7
PAGE 18 OF 56

046
- SEE THE DATA INDICATORS.

```
+-----+  
| DATA |  
|-----|  
| FFF4 |  
| FFF5 |  
| FFF6 |  
| FFF7 |  
+-----+
```

DID THE DATA INDICATORS EQUAL ANY
NUMBER ABOVE?

Y N
-
047
- SEE THE DATA INDICATORS.

```
+-----+  
| DATA |  
|-----|  
| FFF8 |  
| FFF9 |  
| FFFA |  
| FFFB |  
+-----+
```

DO THE DATA INDICATORS EQUAL
ANY NUMBER ABOVE?

Y N
|
048
ONE OF THE ROWS IS A SHORT
CIRCUIT TO COLUMN 11.
GO TO MAP 1071,
ENTRY POINT A.

049
ONE OF THE ROWS IS A SHORT
CIRCUIT TO COLUMN 10.
GO TO MAP 1071, ENTRY POINT A.

A A A A A MAP 2071-18
H J L M P
1 1 1 1
7 7 7 7 |

050
ONE OF THE ROWS IS A
SHORT CIRCUIT TO COLUMN
9.
GO TO MAP 1071,
ENTRY POINT A.

051
ONE OF THE ROWS IS A SHORT
CIRCUIT TO COLUMN 8.
GO TO MAP 1071,
ENTRY POINT A.

052
ROW C IS A SHORT CIRCUIT TO
ONE OF THE COLUMN(S).
GO TO PAGE 17, STEP 045,
ENTRY POINT CS.

053
ROW B IS A SHORT CIRCUIT TO ONE
OF THE COLUMN(S).
GO TO PAGE 17, STEP 045,
ENTRY POINT CS.

054
ROW A IS A SHORT CIRCUIT TO ONE
OF THE COLUMN(S).
GO TO PAGE 17, STEP 045,
ENTRY POINT CS.

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A
P

MAP 2071-18

A A POWER AND CONSOLE
E F
1 1 PAPER ONLY MAP
6 6
PAGE 19 OF 56

A MAP 2071-19
D
1
6

| |
| |
| 055
| - INSPECT THE CONSOLE FOR A
| SHORT FROM COLUMN 0 TO ROW D.
| - INSPECT THE CONSOLE FOR A
| SHORT FROM COLUMN 0 TO THE
| INDICATOR THAT IS ON, CARRIED
| BY C3.
| - INSPECT THE CONSOLE FOR A
| SHORT FROM COLUMN 0 TO THE
| AUDIBLE DEVICE OR TO GROUND.
GO TO MAP 1071, ENTRY POINT A.
IF THE CONSOLE IS GOOD,
GO TO MAP 2070, ENTRY POINT PC.
056
- INSPECT THE CONSOLE FOR A SHORT
FROM COLUMN 0 TO ROW C.
GO TO MAP 1071, ENTRY POINT A.

|
|
| 057
| - INSPECT THE CONSOLE FOR A SHORT
| FROM THE AUDIBLE DEVICE TO THE
| INDICATOR THAT IS ON, CARRIED
| BY C3.
| - INSPECT THE CONSOLE FOR A SHORT
| FROM COLUMN 11 TO ROW D.
| - INSPECT THE CONSOLE FOR A SHORT
| FROM THE AUDIBLE DEVICE TO ROWS
| A THROUGH D.

+-----+
| INDICATORS CARRIED |
| BY CABLE C3 |
+-----+
D04	RUN
D05	WAIT
D06	LOAD
D10	STOP
D11	INSTRUCTION STEP (IS)
D12	STOP ON ADDRESS (SOA)
D13	CHECK
B06	STOP ON ERROR (SOE)
B07	CHECK RESTART (CR)
+-----+
GO TO MAP 1071, ENTRY POINT A.

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MAP 2071-19

A A POWER AND CONSOLE
A C
1 1 PAPER ONLY MAP
5 6
PAGE 20 OF 56

MAP 2071-20

| |
| |
| 058
| |
| C2 - C3
| - INSPECT THE CONSOLE FOR A
| SHORT FROM THE LEVEL
| INDICATOR THAT WAS ON TO
| COLUMN 0 AND 8 THROUGH 11.
| - INSPECT THE CONSOLE FOR A
| SHORT FROM THE INDICATOR THAT
| WAS ON TO COLUMNS 2 THROUGH
| 6.
| - INSPECT THE CONSOLE FOR A
| SHORT FROM COLUMNS 2 THROUGH
| 6 TO ROWS A THROUGH D.
| GO TO MAP 1071, ENTRY POINT A.

059
C1 - C3
- SEE IF ONE OF THE INDICATORS
BELOW IS ON, THAT SHOULD BE
OFF:

IS
SOA
SOE
CR

WAS INDICATOR 'IS', 'SOA', 'SOE' OR
'CR' ON THAT SHOULD NOT BE ON?

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

2 2
1 1
A A
Q R

```
+-----+  
| COLUMN 7 KEYS CARRIED |  
| BY CABLE C1 |  
+-----+  
| D11 | INSTRUCTION STEP (IS) |  
| | STOP ON ADDRESS (SOA) |  
| | STOP ON ERROR (SOE) |  
| | CHECK RESTART (CR) |  
+-----+
```

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MAP 2071-20

P A A POWER AND CONSOLE

MAP 2071-21

8 Q R
2 2 PAPER ONLY MAP

| 0 0
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| |
| |
| 060
| C1 - C3

- | - INSPECT THE CONSOLE FOR A SHORT FROM THE INDICATOR THAT WAS ON TO COLUMN 1 AND COLUMNS 2 THROUGH 6.
- | - INSPECT THE CONSOLE FOR A SHORT FROM COLUMNS 1 TO ROWS A THROUGH D.

| GO TO MAP 1071,
| ENTRY POINT A.

| 061
| C1 - C3

- | - INSPECT THE CONSOLE FOR A SHORT FROM THE INDICATOR THAT WAS ON TO COLUMN 7.
- | - INSPECT THE CONSOLE FOR A SHORT FROM COLUMNS 7 TO ROWS A THROUGH D.

| GO TO MAP 1071, ENTRY POINT A.

| 062

- UNSEAT CONSOLE CABLE C1 FROM THE PROCESSING UNIT TOP CARD CONNECTOR 'W'.
- SEE THE AUDIBLE DEVICE.
- SEE IF THE AUDIBLE DEVICE IS SILENT.

IS THE CONSOLE SILENT?

Y N

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

2 2
3 2
A A
S T

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MAP 2071-21

|
|
063

- UNSEAT CONSOLE CABLE C1 FROM THE CONSOLE CARD CONNECTOR 'C1'.
- SEE THE AUDIBLE DEVICE.
- SEE IF THE AUDIBLE DEVICE IS SILENT.

IS THE CONSOLE SILENT?

Y N

|
| 064

- | THE CONSOLE BOARD IS SUSPECT.
- | - EXCHANGE THE CONSOLE BOARD.

| IF NO REPAIR,
| GO TO MAP 2070, ENTRY POINT PC.

|
065

- TEST CABLE PINS B10, B12 AND D10 FOR AN OPEN OR A SHORT, AS FOLLOWS:
- USE THE CSR MULTIMETER OR EQUIVALENT.
- SET THE CSR MULTIMETER TO 'X1 RESISTANCE'.
- TEST FOR A SHORT OF PIN B10 WITH ALL OTHER PINS IN THE CABLE.
- TEST FOR A SHORT OF PIN B12 WITH ALL OTHER PINS IN THE CABLE.
- TEST PINS B10 AND B12 FOR AN OPEN.

- SEE THE MLD BINDER.
- SEE THE CORRECT PROCESSING UNIT MLD AXXXX.
- SEE LOGIC PAXXX.

IS THE CABLE CORRECT?

Y N

|
| 066

- | - REPAIR OR EXCHANGE THE CABLE.
- | - VERIFY THE REPAIR.

2
3
A
U

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A
Z
2
3

POWER AND CONSOLE

PAPER ONLY MAP

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075

- SEE THE DATA LEDS.
- SEE IF ANY BITS 8 - 15 ARE FLASHING ON AND OFF.

IS/ ARE ANY BIT(S) 8 - 15 FLASHING ON AND OFF?

Y N

076

- SEE THE DATA LEDS.

DATA LEDS
FFFF

ARE THE LEDS AS NOTED?

Y N

077

- SEE THE DATA LEDS.

DATA LEDS
00FF

ARE THE LEDS AS NOTED?

Y N

078

THE PROCESSING UNIT IS SUSPECT.
 THE PROGRAMMER CONSOLE IS SUSPECT.
 GO TO MAP 2070,
 ENTRY POINT PC.

B B
B C

MAP 2071-24

079

PIN C1B03 IS SUSPECT.
 GO TO PAGE 25, STEP 085,
 ENTRY POINT CA.

080

- SEE THE CONSOLE LEDS.
- SEE IF THE FOLLOWING CONSOLE LEDS ARE ON.

DATA LEDS ON	SUSPECT PIN:
DATA BIT 3 STOP ON ADDRESS	C1B06
LEVEL 2 CHECK RESTART	C1D09
CHECK AND WAIT	C1B07
LOAD AND STOP	C1B08
LOAD AND RUN	C1B11
LOAD	C1D06
RUN	C1D04
WAIT	C1D05

ARE THE LEDS AS NOTED?

Y N

2
5
B B B
A B C

2 2
5 5
B B
D E

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MAP 2071-24

A A B B B POWER AND CONSOLE
X Y A D E
2 2 2 2 2 PAPER ONLY MAP
3 3 4 4 4

MAP 2071-25

PAGE 25 OF 56

```
| | | | |
| | | | |
| | | | 081
| | | | +-----+
| | | | | SUSPECT
| | | | | PINS:
| | | | |-----|
| | | | | PIN C1B03
| | | | | PIN C1B10
| | | | | PIN C1B13
| | | | | PIN C1D10
| | | | |-----+
| | | | GO TO STEP 085,
| | | | ENTRY POINT CA.
| | | |
| | | | 082
| | | | THE PIN NOTED IN THE CHART
| | | | IS SUSPECT.
| | | | GO TO STEP 085,
| | | | ENTRY POINT CA.
| | | |
| | | | 083
| | | | PIN C1D08 IS SUSPECT.
| | | | GO TO STEP 085,
| | | | ENTRY POINT CA.
| | | |
| | | | 084
| | | | PIN C1B13 IS SUSPECT.
| | | | GO TO STEP 085,
| | | | ENTRY POINT CA.
| | | |
085
(ENTRY POINT CA)
```

- POWER OFF THE PROCESSING UNIT.
- ENSURE THE CABLE IS SEATED CORRECTLY.

IS THE CABLE SEATED CORRECTLY?

Y N
| |
| |
| |
| |

2 2
6 6
B B
F G

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MAP 2071-25

B B POWER AND CONSOLE
F G
2 2 PAPER ONLY MAP
5 5
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| |
| |
| 086

- | - SEAT THE CABLE.
- | - VERIFY THE REPAIR.

|
087

TEST THE CABLE PIN(S) NOTED PREVIOUSLY FOR AN OPEN OR A SHORT, AS FOLLOWS:

- UNSEAT CONSOLE CABLE C1 FROM THE PROCESSING UNIT TOP CARD CONNECTOR 'W'.
- UNSEAT CONSOLE CABLE C1 FROM THE CONSOLE CARD CONNECTOR 'C1'.
- USE THE CSR MULTIMETER OR EQUIVALENT.
- SET THE CSR MULTIMETER TO 'X1 RESISTANCE'.
- MEASURE THE RESISTANCE BETWEEN THE PINS IN CABLE C1 FOR A SHORT.
- MEASURE THE RESISTANCE BETWEEN THE PINS IN CABLE C1 FOR AN OPEN.

- SEE THE MLD BINDER.
- SEE THE CORRECT PROCESSING UNIT MLD AXXXX.
- SEE LOGIC PAXXX.

IS THE CABLE CORRECT?

Y N

|
| 088

- | REPAIR OR EXCHANGE THE CABLE.
- | - VERIFY THE REPAIR.

|
089

- SEE THE CONSOLE BOARD.
- EXCHANGE THE CONSOLE BOARD.
- POWER ON THE PROCESSING UNIT.

DID THE SYSTEM WORK CORRECT?

Y N

| |
| |
| |
| |

2 2
7 7
B B
H J

L B B POWER AND CONSOLE
7 H J
2 2 PAPER ONLY MAP
6 6
PAGE 27 OF 56

090
THE PROCESSING UNIT IS
SUSPECT.
GO TO MAP 2070,
ENTRY POINT PC.

091
THE REMOVED CONSOLE BOARD IS
BAD.
- VERIFY THE REPAIR.

092
(ENTRY POINT CB)

- POWER OFF THE PROCESSING UNIT.
- POWER ON THE PROCESSING UNIT.
- ENTER ON PROGRAMMER CONSOLE

- PRESS AND RELEASE THE CONSOLE
INTERRUPT KEY.

WAS THE CONSOLE SILENT FOR THE
ABOVE?

Y N

B B
K L

B B MAP 2071-27
K L

093
THE CONSOLE INTERRUPT KEY IS
SUSPECT.

- TEST THE CONSOLE INTERRUPT
KEY.

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

| 495X | 1071 |

| 4954/56| 1072 |

+-----+
| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC. |

094
- ENSURE THE LOAD DEVICE IS NOT
READY.

- ENTER ON PROGRAMMER CONSOLE

- PRESS AND RELEASE THE LOAD KEY.

IS THE CONSOLE AUDIBLE ?

Y N

2 2
8 8
B B
M N

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MAP 2071-27

B B POWER AND CONSOLE

M N

2 2 PAPER ONLY MAP

7 7

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095

- POWER OFF THE PROCESSING UNIT.

- TEST THE LOAD KEY.

PROCESS GO TO MAP 107X UNIT IS ENTRY POINT A.

495X 1071

4954/56 1072

IF NO REPAIR, GO TO MAP 2070, ENTRY POINT PC.

096

- SEE THE LOAD LED.

IS THE LOAD LED ON ?

Y N

097

- POWER OFF THE PROCESSING UNIT.

- TEST THE LOAD LED.

PROCESS GO TO MAP 107X UNIT IS ENTRY POINT A.

495X 1071

4954/56 1072

IF NO REPAIR, GO TO MAP 2070, ENTRY POINT PC.

B P

MAP 2071-28

098

- ENTER ON PROGRAMMER CONSOLE

- PRESS THE RESET KEY.

DID THE LOAD LED GO OUT?

Y N

099

DID ANY LED CHANGE STATES ON THE PROGRAMMER CONSOLE?

Y N

100

- POWER OFF THE PROCESSING UNIT.

- TEST THE RESET KEY.

PROCESS GO TO MAP 107X UNIT IS ENTRY POINT A.

495X 1071

4954/56 1072

IF NO REPAIR, GO TO MAP 2070, ENTRY POINT PC.

101

GO TO MAP 0070, ENTRY POINT SF.

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MAP 2071-28

2 9 B Q

B P

B S
2 9
POWER AND CONSOLE
PAPER ONLY MAP

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106

AFTER A CONSOLE KEY IS PRESSED,
SEE THE LEDS. ONLY THE DATA LEDS
CHANGE. ENSURE CONSOLE IS
AUDIBLE AS KEY IS PRESSED.

- ENTER ON CONSOLE - DATA LEDS

- PRESS THE	RESET	KEY		0000	
- PRESS THE	F	KEY		000F	
- PRESS THE	F	KEY		00FF	
- PRESS THE	F	KEY		0FFF	
- PRESS THE	F	KEY		FFFF	
- PRESS THE	1	KEY		FFF1	
- PRESS THE	2	KEY		FF12	
- PRESS THE	3	KEY		F123	
- PRESS THE	4	KEY		1234	
- PRESS THE	5	KEY		2345	
- PRESS THE	6	KEY		3456	
- PRESS THE	7	KEY		4567	
- PRESS THE	8	KEY		5678	
- PRESS THE	9	KEY		6789	
- PRESS THE	A	KEY		789A	
- PRESS THE	B	KEY		89AB	
- PRESS THE	C	KEY		9ABC	
- PRESS THE	D	KEY		ABCD	
- PRESS THE	E	KEY		BCDE	
- PRESS THE	F	KEY		CDEF	
- PRESS THE	0	KEY		DEF0	
- PRESS THE	0	KEY		EF00	
- PRESS THE	0	KEY		F000	
- PRESS THE	0	KEY		0000	

WAS THE CONSOLE AUDIBLE FOR EACH
DATA KEY?

Y N

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

B B
T U

B B
T U

MAP 2071-30

107

- POWER OFF THE PROCESSING
UNIT.
- TEST THE DATA KEY THAT IS NOT
AUDIBLE.

```

+-----+
|PROCESS| GO TO MAP 107X |
|UNIT IS| ENTRY POINT A. |
+-----+
| 495X | 1071 |
+-----+
|4954/56| 1072 |
+-----+
| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC. |
+-----+

```

108

ARE THE LEDS AS NOTED?

Y N

109

THE DATA KEY IS SUSPECT.

- TEST THE SUSPECT DATA KEY.

```

+-----+
|PROCESS| GO TO MAP 107X |
|UNIT IS| ENTRY POINT A. |
+-----+
| 495X | 1071 |
+-----+
|4954/56| 1072 |
+-----+
| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC. |
+-----+

```

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3
1
B
V

MAP 2071-30

B B POWER AND CONSOLE
Y Z
3 3 PAPER ONLY MAP
1 1
PAGE 32 OF 56

MAP 2071-32

| |
| |
| 113
| - POWER OFF THE PROCESSING
| UNIT.
| - TEST THE STORE KEY.

```
+-----+
| PROCESS| GO TO MAP 107X |
| UNIT IS| ENTRY POINT A. |
|-----+-----|
| 495X   |      1071   |
|-----+-----|
| 4954/56|      1072   |
|-----+-----|
| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC.  |
+-----+-----+
```

114
- SEE THE NOTE ---->

THE CONSOLE 'LOCK' LED WILL COME ON. ALL KEYS ARE LOCKED OUT EXCEPT THE NUMBERS 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E AND F AND THE STORE KEY.

THE LOCK LED WILL PULSE ON AND OFF WHEN A NUMBER KEY IS PRESSED.

- PRESS A NUMBER KEY

WAS THE CONSOLE AS NOTED ABOVE?

Y N

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

WHEN A NUMBER KEY IS PRESSED, THE LOCK LED WILL PULSE ON AND OFF. THIS IS A CAUTION TO THE OPERATOR THAT THE CONSOLE IS IN 'LOCK' MODE. THE CORRECT KEYS MUST BE PRESSED TO 'UNLOCK' THE CONSOLE.

3 3
3 3
C C
A B

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MAP 2071-32

C C POWER AND CONSOLE
A B
3 3 PAPER ONLY MAP
2 2
PAGE 33 OF 56

MAP 2071-33

| |
| |
| 115
| - POWER OFF THE PROCESSING
| UNIT.
| - TEST THE LOCK KEY AND
| CABLE(S) FOR AN OPEN CIRCUIT.

```
+-----+  
| PROCESS| GO TO MAP 107X |  
| UNIT IS| ENTRY POINT A. |  
+-----+  
| 495X | 1071 |  
+-----+  
| 4954/56 | 1072 |  
+-----+  
| IF NO REPAIR, GO TO MAP |  
| 2070, ENTRY POINT PC. |  
+-----+
```

116
- ENTER ON PROGRAMMER CONSOLE

- PRESS THE ONE (1) KEY.
- PRESS THE TWO (2) KEY.
- PRESS THE ONE (1) KEY.
- PRESS THE TWO (2) KEY.
- PRESS THE STORE KEY.

THE LOCK LED WILL GO OFF. THE
CONSOLE IS NOT IN 'LOCK'. IT IS
NORMAL.

DID THE 'LOCK' LED GO OFF?

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

3 3
4 4
C C
C D

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MAP 2071-33

C C POWER AND CONSOLE
J K
3 3 PAPER ONLY MAP
5 5
PAGE 36 OF 56

MAP 2071-36

```
| |
| |
| 124
| - POWER OFF THE PROCESSING
| UNIT.
| - TEST THE LOCK LED AND
| CABLE(S) FOR A SHORT.
| +-----+
| |PROCESS| GO TO MAP 107X |
| |UNIT IS| ENTRY POINT A. |
| |-----+-----|
| | 495X | 1071 |
| |-----+-----|
| |4954/56| 1072 |
| |-----+-----|
| | IF NO REPAIR, GO TO MAP
| | 2070, ENTRY POINT PC. |
| +-----+-----+
```

125
GO TO PAGE 37, STEP 126,
ENTRY POINT LC.

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MAP 2071-36

C C POWER AND CONSOLE
L M
3 3 PAPER ONLY MAP
7 7
PAGE 38 OF 56

127
- POWER OFF THE PROCESSING UNIT.
- TEST THE LEVEL SELECT KEY.

```
+-----+
|PROCESS| GO TO MAP 107X |
|UNIT IS| ENTRY POINT A. |
+-----+
| 495X  | 1071 |
+-----+
|4954/56| 1072 |
+-----+
| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC. |
+-----+
```

128
- SEE THE LEVEL LEDS.

```
+-----+
| 0 = OFF, 1 = ON |
+-----+
| KEY | LEVEL LED ON |
|     | 0 | 1 | 2 | 3 |
+-----+
| ONE 1 | 0 | 1 | 0 | 0 |
+-----+
| TWO 2 | 0 | 0 | 1 | 0 |
+-----+
| THREE 3 | 0 | 0 | 0 | 1 |
+-----+
| ZERO 0 | 1 | 0 | 0 | 0 |
+-----+
```

ARE THE LEDS AS NOTED?

Y N
|
|
|
|
|
|
|
|
|
3 |
9 |
C C
N P

C MAP 2071-38
P

129
THE LEVEL SELECT KEY IS SUSPECT.
- TEST THE SUSPECT KEY.

```
+-----+
|PROCESS| GO TO MAP 107X |
|UNIT IS| ENTRY POINT A. |
+-----+
| 495X  | 1071 |
+-----+
|4954/56| 1072 |
+-----+
| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC. |
+-----+
```

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MAP 2071-38

C
N
3
8

POWER AND CONSOLE

MAP 2071-39

PAPER ONLY MAP

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130

- SEE THE CHART --->

AFTER EACH CONSOLE KEY IS
PRESSED, COMPARE THE CONSOLE WITH
THE CHART. ONLY THE DATA LEDS
AND LEDS SHOWN WILL CHANGE, AND
THE KEYS WILL BE AUDIBLE.

- ENTER ON PROGRAMMER CONSOLE

- PRESS SOA KEY.
- PRESS INSTRUCTION STEP KEY.
- PRESS CHECK RESTART KEY.
- PRESS STOP ON ERROR KEY.

SOA = STOP ON ADDRESS						
IS = INSTRUCTION STEP						
CR = CHECK RESTART						
SOE = STOP ON ERROR						
0 = OFF, 1 = ON						
CONSOLE	KEY	DATA	SOA	IS	CR	SOE
PRESSED:						
SOA		XXXX	1	0	0	0
IS		XXXX	0	1	0	0
CR		XXXX	0	1	1	0
SOE		XXXX	0	1	0	1

WAS THE CONSOLE AUDIBLE FOR EACH
KEY?

Y N

131

THERE IS A SUSPECT KEY.

- TEST THE SUSPECT KEY

PROCESS	GO TO MAP 107X
UNIT IS	ENTRY POINT A.
495X	1071
4954/56	1072
IF NO REPAIR, GO TO MAP	
2070, ENTRY POINT PC.	

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MAP 2071-39

4
0
C
Q

C POWER AND CONSOLE
Q
3 PAPER ONLY MAP
9
PAGE 40 OF 56

132
- SEE IF THE CORRECT LED GOES ON
WHEN THE KEY IS PRESSED.

DID CORRECT LED GO ON FOR THE KEY
PRESSED?

Y N

133
THERE IS A SUSPECT LED.

- TEST THE SUSPECT LED.

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

+-----+
| 495X | 1071 |

+-----+
|4954/56| 1072 |

+-----+
| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC. |

134
- SEE THE INSTRUCTION STEP LED.

- ENTER ON PROGRAMMER CONSOLE

- PRESS AND RELEASE THE
INSTRUCTION STEP KEY.

DID THE INSTRUCTION STEP LED GO
OFF?

Y N

135
GO TO MAP 2070, ENTRY POINT PC.

C
R

C MAP 2071-40
R

136
- SEE THE STOP ON ERROR LED.

- ENTER ON PROGRAMMER CONSOLE

- PRESS AND RELEASE THE STOP ON
ERROR KEY.

DID STOP ON ERROR LED GO OFF?
Y N

137
GO TO MAP 2070, ENTRY POINT PC.

138
AFTER EACH CONSOLE KEY IS
PRESSED, THE DATA LEDS WILL BE
DISPLAYED AND THE KEYS WILL BE
AUDIBLE.

ENSURE THE LEVEL ZERO (0) LED IS
'ON'.

- ENTER ON THE CONSOLE

- PRESS REGISTER ZERO (0) KEY
- PRESS REGISTER ONE (1) KEY
- PRESS REGISTER TWO (2) KEY
- PRESS REGISTER THREE (3) KEY
- PRESS REGISTER FOUR (4) KEY
- PRESS REGISTER FIVE (5) KEY
- PRESS REGISTER SIX (6) KEY
- PRESS REGISTER SEVEN (7) KEY

WAS THE CONSOLE AUDIBLE FOR EACH
REGISTER KEY?

Y N

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

4 4
1 1
C C
S T

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MAP 2071-40

C C POWER AND CONSOLE
S T
4 4 PAPER ONLY MAP
0 0
PAGE 41 OF 56

139
THE REGISTER KEY IS SUSPECT.

- TEST THE SUSPECT KEY.

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

| 495X | 1071 |

| 4954/56| 1072 |

| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC. |

140
- ENTER ON PROGRAMMER CONSOLE

- PRESS AND RELEASE THE DATA
BUFFER KEY.

WAS THE CONSOLE AUDIBLE?

Y N

141
- POWER OFF THE PROCESSING
UNIT.
- TEST THE DATA BUFFER KEY.

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

| 495X | 1071 |

| 4954/56| 1072 |

| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC. |

C
U

C MAP 2071-41
U

142
- ENTER ON PROGRAMMER CONSOLE

- PRESS THE 'F' KEY.
- PRESS THE 'F' KEY.
- PRESS THE 'F' KEY.
- PRESS THE '4' KEY.
- PRESS AND RELEASE THE STORE
KEY.

DO THE DATA LEDS EQUAL 'FFF4'?
Y N

143
GO TO MAP 2070, ENTRY POINT PC.

144
- ENTER ON PROGRAMMER CONSOLE

- PRESS AND RELEASE THE IAR KEY.

WAS THE CONSOLE AUDIBLE?

Y N

145
- POWER OFF THE PROCESSING
UNIT.
- TEST THE IAR KEY.

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

| 495X | 1071 |

| 4954/56| 1072 |

| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC. |

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4
2
C
V

MAP 2071-41

C V POWER AND CONSOLE

4 PAPER ONLY MAP

1 PAGE 42 OF 56

146
- ENTER ON PROGRAMMER CONSOLE

- PRESS THE ZERO (0) KEY.
- PRESS THE FIVE (5) KEY.
- PRESS THE SIX (6) KEY.
- PRESS THE SIX (6) KEY.
- PRESS THE STORE KEY.
- PRESS THE ZERO (0) KEY.
- PRESS AND RELEASE THE IAR KEY.

DO THE DATA LEDS EQUAL 0566 ?
Y N

147
THE IAR KEY IS SUSPECT.
THE STORE KEY IS SUSPECT.
- TEST THE SUSPECT KEYS.

```

+-----+
| PROCESS| GO TO MAP 107X |
| UNIT IS| ENTRY POINT A. |
|-----+-----|
| 495X   |      1071   |
|-----+-----|
| 4954/56|      1072   |
|-----+-----|
| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC.  |
+-----+

```

148
- ENTER ON PROGRAMMER CONSOLE
- PRESS AND RELEASE THE SAR KEY.

WAS THE CONSOLE AUDIBLE?

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

C C
W X

C C MAP 2071-42

W X

149
- POWER OFF THE PROCESSING UNIT.
- TEST THE SAR KEY.

```

+-----+
| PROCESS| GO TO MAP 107X |
| UNIT IS| ENTRY POINT A. |
|-----+-----|
| 495X   |      1071   |
|-----+-----|
| 4954/56|      1072   |
|-----+-----|
| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC.  |
+-----+

```

150
- ENTER ON PROGRAMMER CONSOLE

- PRESS THE ZERO (0) KEY.
- PRESS THE FIVE (5) KEY.
- PRESS THE SIX (6) KEY.
- PRESS THE SEVEN (7) KEY.
- PRESS THE STORE KEY.

THE DATA LEDS ON THE CONSOLE WILL CHANGE TO '0566' AFTER THE STORE KEY IS PRESSED.

- PRESS THE ZERO (0) KEY.
- PRESS THE SAR KEY.

DO THE DATA LEDS EQUAL 0566?
Y N

| |
| |
| |
| |
| |

30MAR87 P N6060925
4 4
3 3 ECA71494 PECA41061
C C
Y Z MAP 2071-42

C C POWER AND CONSOLE
Y Z
4 4 PAPER ONLY MAP
2 2
PAGE 43 OF 56

151
THE SAR KEY IS SUSPECT.
- TEST THE SUSPECT KEY.
+-----+
|PROCESS| GO TO MAP 107X |
|UNIT IS| ENTRY POINT A. |
+-----+
| 495X | 1071 |
+-----+
|4954/56| 1072 |
+-----+
| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC. |
+-----+

152
- ENTER ON PROGRAMMER CONSOLE

- PRESS THE MAIN STORAGE KEY.

WAS THE CONSOLE AUDIBLE?
Y N

153
- POWER OFF THE PROCESSING
UNIT.
- TEST THE MAIN STORAGE KEY.
+-----+
|PROCESS| GO TO MAP 107X |
|UNIT IS| ENTRY POINT A. |
+-----+
| 495X | 1071 |
+-----+
|4954/56| 1072 |
+-----+
| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC. |
+-----+

D
A

D MAP 2071-43
A

154
+-----+
|PROCESSING| LEDS ARE AS |OTHER |
|UNIT+-----+ NOTED. +----+ |
|TYPE| 0 = OFF, 1 = ON | |
+-----+
| 0 = OFF, 1 = ON |
|TYPE |DATA|WAIT|RUN|STOP|LVLO| |
+-----+
|54/56|FA97| 0 | 0 | 1 | 1 | 0 |
|495X |FA99| 0 | 0 | 1 | 1 | 0 |
+-----+

IS FA9X IN DISPLAY AND ALL OTHER
LEDS REMAIN THE SAME?
Y N

155
THE MAIN STORAGE KEY IS
SUSPECT.
- TEST THE SUSPECT KEY.

+-----+
|PROCESS| GO TO MAP 107X |
|UNIT IS| ENTRY POINT A. |
+-----+
| 495X | 1071 |
+-----+
|4954/56| 1072 |
+-----+
| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC. |
+-----+

4
4
D
B

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MAP 2071-43

D POWER AND CONSOLE
B
4 PAPER ONLY MAP
3
PAGE 44 OF 56

MAP 2071-44

156
- SEE THE CHART ---->

- ENTER ON PROGRAMMER CONSOLE
- PRESS THE SIX (6) KEY.
- PRESS THE ONE (1) KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE STORE KEY.

DATA LEDS ON CONSOLE WILL BE 6100.

- ENTER ON PROGRAMMER CONSOLE
- PRESS THE SIX (6) KEY.
- PRESS THE FOUR (4) KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE STORE KEY.

DATA LEDS ON CONSOLE WILL BE 6400.

- ENTER ON PROGRAMMER CONSOLE
- PRESS THE THREE (3) KEY.
- PRESS THE EIGHT (8) KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE STORE KEY.

DATA LEDS ON CONSOLE WILL BE 3800.

IS THE ACTION COMPLETE?
Y N

157
- COMPLETE THE ACTION AND
CONTINUE ON THE YES LEG.

ENTER	
6100	STORE
6400	STORE
3800	STORE
SAR	
001C	STORE
MAIN STORAGE	
0600	STORE
0568	STORE
START	

4
5
D
C

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ECA71494 PECA41061
MAP 2071-44

D
C
4
4

POWER AND CONSOLE

MAP 2071-45

PAPER ONLY MAP

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|
|
158

- PRESS THE SAR KEY.

DATA LEDS ON CONSOLE WILL CHANGE TO 056C AFTER SAR KEY IS PRESSED.

- ENTER ON PROGRAMMER CONSOLE

- PRESS THE ZERO (0) KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE ONE (1) KEY.
- PRESS THE (C) KEY.
- PRESS THE STORE KEY.
- PRESS THE MAIN STORAGE KEY.

DATA LEDS ON CONSOLE WILL CHANGE TO FFEX AFTER STORE KEY IS PRESSED.

- ENTER ON PROGRAMMER CONSOLE

- PRESS THE ZERO (0) KEY.
- PRESS THE SIX (6) KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE STORE KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE FIVE (5) KEY.
- PRESS THE SIX (6) KEY.
- PRESS THE EIGHT (8) KEY.
- PRESS THE STORE KEY.
- PRESS THE START KEY.

WAS THE CONSOLE AUDIBLE?

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

ENTER	
6100	STORE
6400	STORE
3800	STORE
	SAR
001C	STORE
MAIN STORAGE	
0600	STORE
0568	STORE
	START

4 4
6 6
D D
D E

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MAP 2071-45

D POWER AND CONSOLE
H
4 PAPER ONLY MAP
6
PAGE 47 OF 56

164

0 = OFF, 1 = ON

PROCESS UNIT	DATA	WAIT	RUN	STOP	LVLO	CK
54/56	0568	0	0	1	0	0
4956E	0568	0	0	1	0	0
4956H	0568	0	0	1	0	0
495X	0566	0	0	1	0	0

ARE THE LEDS AS NOTED?
Y N

165
THE STOP KEY IS SUSPECT.
THE LED IS SUSPECT.
- TEST THE SUSPECT KEY.
- TEST THE SUSPECT LED.

PROCESS UNIT	DATA	WAIT	RUN	STOP	LVLO	CK
495X	1071					
4954/56	1072					

IF NO REPAIR, GO TO MAP 2070, ENTRY POINT PC.

166
- ENTER ON PROGRAMMER CONSOLE
- PRESS AND RELEASE THE CIAR KEY.

WAS THE CONSOLE AUDIBLE?
Y N

D D
J K

D D MAP 2071-47
J K

167

- POWER OFF THE PROCESSING UNIT.
- TEST THE CIAR KEY.

PROCESS UNIT	DATA	WAIT	RUN	STOP	LVLO	CK
495X	1071					
4954/56	1072					

IF NO REPAIR, GO TO MAP 2070, ENTRY POINT PC.

168

PROCESSOR UNIT	MODEL	WAIT	RUN	STOP	LVLO	CK
4952 ALL		0	0	1	1	0
4956 E/H		0	0	1	1	0
495X ALL		0	0	1	0	0

DATA LEDS = 0566 ALL PROCESSORS

IS 0566 IN THE LEDS AND NO OTHER CHANGE?

Y N

4 4
8 8
D D
L M

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ECA71494 PECA41061

MAP 2071-47

D D POWER AND CONSOLE
L M
4 4 PAPER ONLY MAP
7 7
PAGE 48 OF 56

D MAP 2071-48
N

169
THE CIAR KEY IS SUSPECT.

- TEST THE SUSPECT KEY.

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

| 495X | 1071 |
+-----+

|4954/56| 1072 |
+-----+

| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC. |
+-----+

170
- ENTER ON PROGRAMMER CONSOLE

- PRESS AND RELEASE THE OP REG
KEY.

WAS THE CONSOLE AUDIBLE?

Y N

171
- POWER OFF THE PROCESSING
UNIT.
- TEST THE OP REG KEY.

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

| 495X | 1071 |
+-----+

|4954/56| 1072 |
+-----+

| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC. |
+-----+

172

+-----+
PROCESSOR	0 = OFF, 1 = ON							
UNIT	LEDS ARE AS NOTED:							
TYPE								
MODEL	WAIT	RUN	STOP	LVLO	CK			
+-----+								
4952 ALL	0	0	1	1	0			
4956 E/H	0	0	1	1	0			
495X ALL	0	0	1	0	0			
DATA LEDS = 6100 ALL PROCESSORS								
+-----+

IS 6100 IN THE DATA LEDS AND NO
OTHER CHANGE?

Y N

173
THE OP REG KEY IS SUSPECT.

- TEST THE SUSPECT KEY.

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

| 495X | 1071 |
+-----+

|4954/56| 1072 |
+-----+

| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC. |
+-----+

174

- ENTER ON PROGRAMMER CONSOLE

- PRESS AND RELEASE THE LSR KEY.

WAS THE CONSOLE AUDIBLE?

Y N

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4 4
9 9 ECA71494 PECA41061

D D
P Q MAP 2071-48

D
N

D D POWER AND CONSOLE
 X Y
 5 5 PAPER ONLY MAP
 0 0
 PAGE 51 OF 56

MAP 2071-51

```

| |
| |
| 183
| - POWER OFF THE PROCESSING
|   UNIT.
| - TEST THE MODE SWITCH.
| - TEST CONSOLE INTERRUPT KEY.
| - TEST THE LED THAT IS NOT
|   CORRECT.

```

```

+-----+
| PROCESS| GO TO MAP 107X |
| UNIT IS| ENTRY POINT A. |
|-----+-----+
| 495X   |      1071   |
|-----+-----+
| 4954/56|      1072   |
|-----+-----+
| IF NO REPAIR, GO TO MAP
| 2070, ENTRY POINT PC. |
+-----+

```

```

184
- SEE THE CHART --->

- SET THE MODE SWITCH TO THE
  NORMAL POSITION.

- ENTER ON PROGRAMMER CONSOLE
-----
- PRESS THE IAR KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE FIVE (5) KEY.
- PRESS THE SIX (6) KEY.
- PRESS THE EIGHT (8) KEY.
- PRESS THE STORE KEY.
- PRESS THE STOP ON ERROR KEY.
- PRESS THE START KEY.

```

```

+-----+
| PROCESSOR| 0 = OFF, 1 = ON | | | | |
| UNIT     | LEDS ARE AS NOTED: |
| TYPE     |                       |
| MODEL    | WAIT|SOE|STOP|LVLO|CK|
|-----+-----+-----+-----+-----+
| 4952/53  | 0  | 1  | 1  | 1  | 1  |
| 4956 E/H | 0  | 1  | 1  | 1  | 1  |
| DATA LEDS = 056C
|-----+-----+-----+-----+
| 4954 ALL | 0  | 1  | 1  | 1  | 1  |
| 4955 ALL | 0  | 1  | 1  | 1  | 1  |
| 4956 B/C | 0  | 1  | 1  | 1  | 1  |
| 4956 D/G | 0  | 1  | 1  | 1  | 1  |
| DATA LEDS = 056A
+-----+

```

SOE = STOP ON ERROR

ARE THE LEDS AS NOTED?

```

Y N
| |
| |
| |
| |

```

5 5
 2 2
 D E
 Z A

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 MAP 2071-51

D E POWER AND CONSOLE
Z A
5 5 PAPER ONLY MAP
1 1
PAGE 52 OF 56

185
- POWER OFF THE PROCESSING UNIT.
- TEST THE MODE SWITCH.

```
+-----+
|PROCESS| GO TO MAP 107X |
|UNIT IS| ENTRY POINT A. |
+-----+
| 495X | 1071 |
+-----+
|4954/56| 1072 |
+-----+
| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC. |
+-----+
```

186
- ENTER ON PROGRAMMER CONSOLE

- PRESS AND RELEASE THE PSW KEY.

WAS THE CONSOLE AUDIBLE?
Y N

187
THE PSW KEY IS SUSPECT.
- TEST THE SUSPECT KEY.

```
+-----+
|PROCESS| GO TO MAP 107X |
|UNIT IS| ENTRY POINT A. |
+-----+
| 495X | 1071 |
+-----+
|4954/56| 1072 |
+-----+
| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC. |
+-----+
```

E
B

E MAP 2071-52
B

188
- SEE THE DATA LEDS.

```
+-----+
|          0 = OFF, 1 = ON          |
|DATA|WT|SOE|STOP|LVLO|CK|OTHER|
|LEDS| | | | | 0 | |LEDS|
+-----+
|0800|0 | 1 | 1 | 1 | 0 | 0 |
+-----+
SOE = STOP ON ERROR
```

DO THE DATA LEDS EQUAL 0800?
Y N

189
THE PSW KEY IS SUSPECT.
- TEST THE SUSPECT KEY.

```
+-----+
|PROCESS| GO TO MAP 107X |
|UNIT IS| ENTRY POINT A. |
+-----+
| 495X | 1071 |
+-----+
|4954/56| 1072 |
+-----+
| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC. |
+-----+
```

190
- POWER OFF THE PROCESSING UNIT.
- PUT THE MODE SWITCH IN THE 'AUTO IPL' POSITION.

IS THE DISKETTE UNIT THE PRIMARY
IPL SOURCE ?

Y N
|
|
|
|

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5 5
6 3 ECA71494 PECA41061
E E
C D MAP 2071-52

E
D
5
2

POWER AND CONSOLE
PAPER ONLY MAP
PAGE 53 OF 56

MAP 2071-53

|
|
191

- ENSURE THE IPL SOURCE SWITCH IS
IN THE ALTERNATE POSITION.

IS THE IPL SOURCE SWITCH IN THE
ALTERNATE POSITION?

Y N

|
| 192

| THE IPL SOURCE SWITCH MUST BE
| IN THE ALTERNATE POSITION. BE
| GO TO STEP 193,
| ENTRY POINT LD.

|
193

(ENTRY POINT LD)

- ENSURE THE LOAD DEVICE IS NOT
READY.
- POWER ON THE PROCESSING UNIT.
- WAIT 15 SECOND(S).

IS THE LOAD LED ON ?

Y N

|
| 194

- | - POWER OFF THE PROCESSING
| UNIT.
- | - TEST THE MODE SWITCH.

+-----+	
PROCESS	GO TO MAP 107X
UNIT IS	ENTRY POINT A.
+-----+	
495X	1071
+-----+	
4954/56	1072
+-----+	
IF NO REPAIR, GO TO MAP	
2070, ENTRY POINT PC.	
+-----+	

|
|
|

5
4
E
E

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MAP 2071-53

E
E
5
3

POWER AND CONSOLE

MAP 2071-54

PAPER ONLY MAP

PAGE 54 OF 56

195

- SEE IF THE DATA LEDS EQUAL 00E5.

DO THE DATA LEDS EQUAL 00E5?

Y N

196

- POWER OFF THE PROCESSING UNIT.
- TEST THE MODE SWITCH.
- TEST THE IPL SOURCE SWITCH.

```

+-----+
|PROCESS| GO TO MAP 107X |
|UNIT IS| ENTRY POINT A. |
+-----+
| 495X | 1071 |
+-----+
|4954/56| 1072 |
+-----+
| IF NO REPAIR, GO TO MAP |
| 2070, ENTRY POINT PC. |
+-----+

```

197

- ENTER ON PROGRAMMER CONSOLE
- PRESS THE RESET KEY.
- PRESS THE START KEY.
- SEE IF THE DATA LEDS EQUAL AS NOTED IN THE CHART, WITH THE RUN AND CHECK LEDS ON.
- SEE THE CHART ---->

```

+-----+
|          0 = OFF, 1 = ON          |
|PROCESS | LEDS ARE AS NOTED: | | | | | | |
|UNIT| | | | | | | |
|TYPE|DATA|WAIT|RUN|STOP|LVLO|CK|
+-----+
|4952|0025| 0 | 1 | 0 | 1 | 1 |
|4953|0025| 0 | 1 | 0 | 1 | 1 |
|4954|0000| 0 | 1 | 0 | 1 | 1 |
|4955|XXXX| 0 | 1 | 1 | 1 | 1 |
|4956|0000| 0 | 1 | 0 | 1 | 1 |
+-----+

```

ARE THE LEDS AS NOTED?

Y N
| |
| |
| |
| |

5 5
5 5
E E
F G

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ECA71494 PECA41061

MAP 2071-54

J E E E E POWER AND CONSOLE
7 C H K L M

5 5 5 5 5 PAPER ONLY MAP

2 5 5 5 5

PAGE 56 OF 56

208
GO TO MAP 0020,
ENTRY POINT A.

209
GO TO MAP 0070,
ENTRY POINT A.

210
- RETURN TO THE MAP THAT
SENT YOU HERE.

211
- TEST THE OTHER POSITION OF
THE SOURCE SWITCH.

PROCESS	GO TO MAP 107X
UNIT IS	ENTRY POINT A.

495X	1071
------	------

4954/56	1072
---------	------

IF NO REPAIR, GO TO MAP	
2070, ENTRY POINT PC.	

212
- ENSURE THE IPL SOURCE SWITCH
IS IN THE PRIMARY POSITION.
GO TO PAGE 53, STEP 193,
ENTRY POINT LD.

213
- SEE IF THE SYSTEM IS WORKING
CORRECT.

IS THE SYSTEM WORKING CORRECT?

Y N

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

E E
N P

E E
N P

MAP 2071-56

| |

| |

| |

| |

| 214

| USE THE FAILURE INDICATION AND:
| GO TO MAP 0070, ENTRY POINT A.

|

215

GOOD END THIS MAP.

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MAP 2071-56

2

PAPER ONLY MAP

PAGE 3 OF 19

004
(ENTRY POINT LB)

A REMOVED STORAGE CARD IS
SUSPECT.

- POWER OFF THE PROCESSING UNIT.
- REMOVE THE INSTALLED STORAGE CARD.
- MARK IT AND SET IT TO ONE SIDE.
- INSTALL A SUSPECT STORAGE CARD THAT IS NOT TESTED.
- POWER ON THE PROCESSING UNIT.
- RUN THE FAILING DIAGNOSTIC, IF NEEDED TO SEE THE FAILURE.

DID THE SAME FAILURE OCCUR?

Y N

005
- SEE IF ALL REMOVED STORAGE CARDS ARE INSTALLED.

ARE ALL STORAGE CARDS
INSTALLED?

Y N

006
GO TO STEP 004,
ENTRY POINT LB.

007
- SEE IF THE SYSTEM IS
REPAIRED.

IS THE SYSTEM REPAIRED?

Y N

008
GO TO PAGE 5, STEP 016,
ENTRY POINT AE.

D F G
2 3 3

STORAGE ISOLATION

MAP 2072-4

PAPER ONLY MAP

| | |
| | | PAGE 4 OF 19
| | |

| | |
| | |

009

- VERIFY THE REPAIR.

| |
| 010

- EXCHANGE THE STORAGE CARD
JUST INSTALLED.

- VERIFY THE REPAIR.

|
011

THE SEATED STORAGE CARD IS
SUSPECT.

- POWER OFF THE PROCESSING UNIT.
- REMOVE THE SUSPECT STORAGE
CARD.
- MARK IT AND SET IT TO ONE SIDE.
- INSTALL A STORAGE CARD THAT IS
NOT SUSPECT.
- RUN THE FAILING DIAGNOSTIC, IF
NEEDED TO SEE THE FAILURE.

DID THE SAME FAILURE OCCUR?

Y N

|
| 012

- EXCHANGE THE STORAGE CARD
JUST REMOVED.

- VERIFY THE REPAIR.

|
013

GO TO PAGE 5, STEP 016,
ENTRY POINT AE.

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MAP 2072-4

H J
5 5

STORAGE ISOLATION

MAP 2072-6

PAPER ONLY MAP

PAGE 6 OF 19

017

- POWER OFF THE PROCESSING UNIT.
- EXCHANGE THE ADDRESS EXPANSION CARD.
- ENSURE THE CARD JUMPERS IF INSTALLED, ARE CORRECT.
- SEE MLD VOLUME ONE (1), LOGIC AXXXX.
- POWER ON THE PROCESSING UNIT.
- RUN THE FAILING DIAGNOSTIC, IF NEEDED TO SEE THE FAILURE.

DID THE SAME FAILURE OCCUR?

Y N

018

- THE ADDRESS EXPANSION CARD IS BAD.
- VERIFY THE REPAIR.

019

GO TO PAGE 17, STEP 060,
ENTRY POINT PC.

020

GO TO PAGE 17, STEP 060,
ENTRY POINT PC.

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EC337369 PEC466795

MAP 2072-6

N
8

STORAGE ISOLATION

MAP 2072-9

PAPER ONLY MAP

PAGE 9 OF 19

023
(ENTRY POINT LE)

- POWER OFF THE PROCESSING UNIT.
- INSTALL A STORAGE CARD TO THE RIGHT OF THE LAST INSTALLED STORAGE CARD, IN THE NEXT OPEN CARD POSITION.
- SEE THE NOTE --->
- POWER ON THE PROCESSING UNIT.
- RUN THE FAILING DIAGNOSTIC, IF NEEDED TO SEE THE FAILURE.

THE STORAGE SIZE IS CHANGED. THERE MAY BE A CONFIGURATION ERROR OR A DIAGNOSTIC FAILURE. NOTE THIS WHEN USING THE 'FAILURE INDICATION'. DO NOT CONFUSE THE 'CONFIGURATION ERROR' CAUSED BY STORAGE SIZE WITH THE 'ERROR INDICATION' USED BY YOU.

THE JUMPERS, IF INSTALLED, AND THE CONFIGURATION TABLE MAY HAVE TO BE CHANGED.

DID THE SAME FAILURE OCCUR?

Y N

024
- SEE IF 64K STORAGE IS INSTALLED NOW.

IS 64K STORAGE INSTALLED NOW?
Y N

025
- SEE IF ALL REMOVED STORAGE CARDS ARE INSTALLED.

ARE ALL STORAGE CARDS INSTALLED?
Y N

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

1 1 1 1
5 0 0 0
P Q R S

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EC337369 PEC466795

MAP 2072-9

Q R S
9 9 9

STORAGE ISOLATION

MAP 2072-10

PAPER ONLY MAP

PAGE 10 OF 19

026

GO TO PAGE 9, STEP 023,
ENTRY POINT LE.

027

GO TO STEP 028,
ENTRY POINT TR.

028

(ENTRY POINT TR)

IF A TRANSLATOR CARD IS UNSEATED:
- ANSWER THE QUESTION 'YES'.

IF A TRANSLATOR CARD IS NOT
INSTALLED:
- ANSWER THE QUESTION 'NO'.

IS A TRANSLATOR CARD UNSEATED?

Y N

029

- SEE IF THE SYSTEM IS
REPAIRED.

IS THE SYSTEM REPAIRED?

Y N

030

GO TO PAGE 17, STEP 060,
ENTRY POINT PC.

031

- VERIFY THE REPAIR.

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EC337369 PEC466795

MAP 2072-10

1
1
T

T STORAGE ISOLATION

1 PAPER ONLY MAP
0

PAGE 11 OF 19

032

- SEE IF THE STORAGE TRANSLATOR
CARD WAS EXCHANGED BEFORE.

WAS THE TRANSLATOR CARD EXCHANGED
BEFORE?

Y N

033

- POWER OFF THE PROCESSING UNIT.
- ENSURE THE JUMPERS ON THE TRANSLATOR CARD ARE CORRECT, IF USED.
- RESEAT THE TRANSLATOR CARD.
- POWER ON THE PROCESSING UNIT.
- RUN THE FAILING DIAGNOSTIC, IF NEEDED TO SEE THE FAILURE.

DID THE SAME FAILURE OCCUR?

Y N

034

- SEE IF ALL REMOVED STORAGE
CARDS ARE INSTALLED.

ARE ALL STORAGE CARDS
INSTALLED?

Y N

1 1 1 1
4 4 4 2
U V W X

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EC337369 PEC466795

X STORAGE ISOLATION
1
1 PAPER ONLY MAP
|
| PAGE 12 OF 19
|

035
(ENTRY POINT LO)

- POWER OFF THE PROCESSING UNIT.
- INSTALL A STORAGE CARD TO THE RIGHT OF THE LAST INSTALLED STORAGE CARD, IN THE NEXT OPEN CARD POSITION.
- SEE THE NOTE --->
- POWER ON THE PROCESSING UNIT.
- RUN THE FAILING DIAGNOSTIC, IF NEEDED TO SEE THE FAILURE.

THE STORAGE SIZE IS CHANGED. THERE MAY BE A CONFIGURATION ERROR OR A DIAGNOSTIC FAILURE. NOTE THIS WHEN USING THE 'FAILURE INDICATION'. DO NOT CONFUSE THE 'CONFIGURATION ERROR' CAUSED BY STORAGE SIZE WITH THE 'ERROR INDICATION' USED BY YOU.

THE JUMPERS, IF INSTALLED, AND THE CONFIGURATION TABLE MAY HAVE TO BE CHANGED.

DID THE SAME FAILURE OCCUR?

Y N

| 036
| - SEE IF ALL REMOVED STORAGE
| CARDS ARE INSTALLED.

| ARE ALL STORAGE CARDS
| INSTALLED?
| Y N

| 037
| GO TO STEP 035,
| ENTRY POINT LO.

|
|
|
|
|
|
|
|
|
|
|

25MAR83 PN6060926

EC337369 PEC466795

1 1
3 3
Y Z

Y Z STORAGE ISOLATION
1 1
2 2 PAPER ONLY MAP

MAP 2072-13

PAGE 13 OF 19

038

- SEE IF THE SYSTEM IS
REPAIRED.

IS THE SYSTEM REPAIRED?

Y N

039

GO TO PAGE 17, STEP 060,
ENTRY POINT PC.

040

- VERIFY THE REPAIR.

041

- POWER OFF THE PROCESSING UNIT.
- REMOVE THE STORAGE CARD JUST
INSTALLED.
- MARK IT AND SET IT TO ONE SIDE.
- INSTALL A KNOWN GOOD STORAGE
CARD.
- POWER ON THE PROCESSING UNIT.
- RUN THE FAILING DIAGNOSTIC, IF
NEEDED TO SEE THE FAILURE.

DID THE SAME FAILURE OCCUR?

Y N

042

THE REMOVED STORAGE CARD IS
BAD.

- VERIFY THE REPAIR.

043

GO TO PAGE 17, STEP 060,
ENTRY POINT PC.

25MAR83 PN6060926

EC337369 PEC466795

MAP 2072-13

U V W STORAGE ISOLATION
1 1 1
1 1 1 PAPER ONLY MAP

MAP 2072-14

PAGE 14 OF 19

044

GO TO PAGE 17, STEP 060,
ENTRY POINT PC.

045

(ENTRY POINT TC)

THE STORAGE TRANSLATOR CARD IS
SUSPECT.

- POWER OFF THE PROCESSING
UNIT.
- EXCHANGE THE TRANSLATOR CARD.
- ENSURE THE CARD JUMPERS IF
INSTALLED, ARE CORRECT.
- SEE MLD VOLUME ONE (1), LOGIC
AXXXX.
- POWER ON THE PROCESSING UNIT.
- RUN THE FAILING DIAGNOSTIC,
IF NEEDED TO SEE THE FAILURE.

DID THE SAME FAILURE OCCUR?

Y N

046

THE TRANSLATOR CARD IS BAD.
- VERIFY THE REPAIR.

047

GO TO PAGE 17, STEP 060,
ENTRY POINT PC.

048

- SEE IF ALL REMOVED STORAGE
CARDS ARE INSTALLED.

IS ALL STORAGE INSTALLED?

Y N

049

GO TO PAGE 12, STEP 035,
ENTRY POINT LO.

25MAR83 PN6060926

EC337369 PEC466795

MAP 2072-14

1
5
A
A

P A STORAGE ISOLATION

9 A

1 PAPER ONLY MAP

| 4

| PAGE 15 OF 19

| |

| |

| 050

| GO TO PAGE 17, STEP 060

| ENTRY POINT PC.

|

051

- POWER OFF THE PROCESSING UNIT.
- REMOVE THE LAST STORAGE CARD INSTALLED.
- MARK IT AND SET IT TO ONE SIDE.
- INSTALL A KNOWN GOOD STORAGE CARD.
- POWER ON THE PROCESSING UNIT.
- RUN THE FAILING DIAGNOSTIC, IF NEEDED TO SEE THE FAILURE.

DID THE SAME FAILURE OCCUR?

Y N

|

| 052

| THE MARKED STORAGE CARD IS BAD.

| - VERIFY THE REPAIR.

|

053

GO TO PAGE 17, STEP 060,

ENTRY POINT PC.

25MAR83 PN6060926

EC337369 PEC466795

K M
7 8

STORAGE ISOLATION

MAP 2072-16

PAPER ONLY MAP

PAGE 16 OF 19

054

- POWER OFF THE PROCESSING UNIT.
- REMOVE THE STORAGE CARD INSTALLED.
- MARK IT AND SET IT TO ONE SIDE.
- INSTALL A KNOWN GOOD STORAGE CARD.
- POWER ON THE PROCESSING UNIT.
- RUN THE FAILING DIAGNOSTIC, IF NEEDED TO SEE THE FAILURE.

DID THE SAME FAILURE OCCUR?

Y N

055

- THE MARKED STORAGE CARD IS BAD.
- VERIFY THE REPAIR.

056

GO TO PAGE 17, STEP 060,
ENTRY POINT PC.

057

THERE IS ONLY ONE STORAGE CARD
INSTALLED.

- POWER OFF THE PROCESSING UNIT.
- REMOVE THE STORAGE CARD.
- MARK IT AND SET IT TO ONE SIDE.
- INSTALL A KNOWN GOOD STORAGE CARD.
- POWER ON THE PROCESSING UNIT.
- RUN THE FAILING DIAGNOSTIC, IF NEEDED TO SEE THE FAILURE.

DID THE SAME FAILURE OCCUR?

Y N

| |
| |
| |
| |

1 1
7 7
A A
B C

25MAR83 PN6060926

EC337369 PEC466795

MAP 2072-16

A A STORAGE ISOLATION

MAP 2072-17

B C

1 1 PAPER ONLY MAP

6 6

PAGE 17 OF 19

| |

| |

| 058

| THE MARKED STORAGE CARD IS BAD.

| - VERIFY THE REPAIR.

|

059

- SEE IF A RELOCATION TRANSLATOR
CARD IS INSTALLED.

IS A RELOCATION TRANSLATOR CARD
INSTALLED?

Y N

|

| 060

| (ENTRY POINT PC)

|

| - SEE IF THE ROS CARD WAS
EXCHANGED PREVIOUSLY.

|

| WAS THE ROS CARD EXCHANGED
PREVIOUSLY?

| Y N

|

| 061

| - POWER OFF THE PROCESSING
UNIT.

| - EXCHANGE THE ROS CARD.

| - POWER ON THE PROCESSING
UNIT.

| - RUN THE FAILING DIAGNOSTIC,
IF NEEDED TO SEE THE
FAILURE.

|

| DID THE SAME FAILURE OCCUR?

| Y N

|

| 062

| THE ROS CARD IS BAD.

| - VERIFY THE REPAIR.

|

| 063

| GO TO PAGE 18, STEP 064,
ENTRY POINT AC.

|

|

1 1

9 8

A A

D E

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EC337369 PEC466795

MAP 2072-17

064
(ENTRY POINT AC)

- SEE IF THE ADDRESS CARD WAS EXCHANGED PREVIOUSLY.

WAS THE ADDRESS CARD EXCHANGED PREVIOUSLY?

Y N

065

- POWER OFF THE PROCESSING UNIT.
- EXCHANGE THE ADDRESS CARD.
- POWER ON THE PROCESSING UNIT.
- RUN THE FAILING DIAGNOSTIC, IF NEEDED TO SEE THE FAILURE.

DID THE SAME FAILURE OCCUR?

Y N

066

- THE ADDRESS CARD IS BAD.
- VERIFY THE REPAIR.

067

GO TO STEP 068,
ENTRY POINT DC.

068

(ENTRY POINT DC)

- SEE IF THE DATA CARD WAS EXCHANGED PREVIOUSLY.

WAS THE DATA CARD EXCHANGED PREVIOUSLY?

Y N

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

1 1
9 9
A A
F G

25MAR83 PN6060926

EC337369 PEC466795

A A A STORAGE ISOLATION
D F G
1 1 1 PAPER ONLY MAP
7 8 8
PAGE 19 OF 19

MAP 2072-19

| | |
| | |
| | | 069
| | | - POWER OFF THE PROCESSING
| | | UNIT.
| | | - EXCHANGE THE DATA CARD.
| | | - POWER ON THE PROCESSING
| | | UNIT.
| | | - RUN THE FAILING DIAGNOSTIC,
| | | IF NEEDED TO SEE THE
| | | FAILURE.
| | |
| | | DID THE SAME FAILURE OCCUR?
| | | Y N
| | |
| | | 070
| | | THE DATA CARD IS BAD.
| | | - VERIFY THE REPAIR.
| | |
| | | 071
| | | GO TO MAP 2071,
| | | ENTRY POINT A.
| | |
| | | 072
| | | GO TO MAP 2071, ENTRY POINT A.
| | |
| | | 073
| | | GO TO PAGE 14, STEP 045,
| | | ENTRY POINT TC.

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EC337369 PEC466795

MAP 2072-19

Sequence		Part	EC 374831	EC 374831B			
0638AA	1 of 2	6826700	7-1-78	3-6-79			

Sequence		Part	EC 374831	EC 374831B			
0638AA	2 of 2	6826700	7-1-78	3-6-79			

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PAPER ONLY MAP

PAGE 1 OF 26

ENTRY POINTS

FROM	ENTER THIS MAP		

MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER

0000	A	2	001
0000	B	4	006
0000	C	10	021
0000	D	9	019
0000	E	23	065
0000	F	24	067
0000	G	25	069
0000	H	26	071

EXIT POINTS

EXIT THIS MAP		TO	

PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT

3	004	0020	A
7	014	0070	A
8	017	0070	A
12	025	0070	A
16	047	0070	A
26	073	0070	A
21	058	1470	A
11	023	2070	A
22	060	2070	A
22	063	2070	A

001
(ENTRY POINT A)

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

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

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

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

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

Y N

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

| Y N

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

| | Y N

5 4 3 3
A B C D

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C D
2 2

MCK OR PCK MAP

MAP 3871-3

PAPER ONLY MAP

PAGE 3 OF 26

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

004

YOU ARE IN THE WRONG MAP.
GO TO MAP 0020, ENTRY POINT A.

005

- RECORD THE DATA LAMPS.
GO TO PAGE 4, STEP 006,
ENTRY POINT B.

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MAP 3871-3

B
2

MCK OR PCK MAP

MAP 3871-4

PAPER ONLY MAP

PAGE 4 OF 26

006

(ENTRY POINT B)

- PRESS THE STOP KEY.

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

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

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

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

DISPLAY THE NEXT SEQUENTIAL MAIN
STORAGE LOCATION.

RECORD THIS INFORMATION.

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

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MAP 3871-4

F
5

MCK OR PCK MAP

MAP 3871-6

PAPER ONLY MAP

PAGE 6 OF 26

010

MCK MAP=XXXXSTEP=XXXXPSW=XXXXIAR=XXXX

IDCB=XXXXXXXX

IS THE ABOVE MESSAGE ON THE
ALTERNATE CONSOLE?

Y N

011

IXXXXLOADED

IS THE ABOVE MESSAGE ON THE
ALTERNATE CONSOLE?

Y N

012

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

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

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

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

USE IT TO DETERMINE WHICH
DEVICE DIAGNOSTIC CAUSED THE
CHECK.

- POWER OFF.

EXCHANGE THE ATTACHMENT CARD
INDICATED BY LAST

'IXXXXLOADED'

MESSAGE ON ALTERNATE CONSOLE
BEFORE MESSAGE WAS GONE.

(STEP 012 CONTINUES)

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8 7
G H

MAP 3871-6

H
6

MCK OR PCK MAP

MAP 3871-7

PAPER ONLY MAP

PAGE 7 OF 26

(STEP 012 CONTINUED)

- POWER ON.

RUN THE FAILING DIAGNOSTIC(S).

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

Y N

013

- VERIFY THE REPAIR.

014

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

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

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

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

GO TO MAP 0070, ENTRY POINT A.

015

POWER OFF.

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

- POWER ON.

RUN THE FAILING DIAGNOSTIC(S).

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

Y N

|
|
|
|
|
|
|

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8 8

J K

MAP 3871-7

G J K
6 7 7

MCK OR PCK MAP

MAP 3871-8

PAPER ONLY MAP

PAGE 8 OF 26

016

- VERIFY THE REPAIR.

017

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

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

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

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

GO TO MAP 0070, ENTRY POINT A.

018

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

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MAP 3871-8

E
5

MCK OR PCK MAP

MAP 3871-9

PAPER ONLY MAP

PAGE 9 OF 26

019
(ENTRY POINT D)

THE ALTERNATE CONSOLE MESSAGE HAS
THIS INFORMATION:

MCK INDICATING MACHINE CHECK OR
PCK INDICATING PROGRAM CHECK AND
MAP NUMBER

STEP NUMBER

PSW

IAR

IDCB

IDCB FORMAT

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

+-----+-----+-----+		
IMMEDIATE FIELD		
+-----+-----+-----+		
BIT 16		31

BIT(S) 08 TO 15 CONTAIN A DEVICE

IS THIS INFORMATION ON THE
ALTERNATE CONSOLE?

Y N

020
GO TO PAGE 4, STEP 006,
ENTRY POINT B.

1
0
L

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MAP 3871-9

L
9
|
|
|
|

MCK OR PCK MAP

MAP 3871-10

PAPER ONLY MAP

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021
(ENTRY POINT C)

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

THE ALTERNATE CONSOLE DID PRINT
OR DISPLAY THE IAR.
OR

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

PROCESSING UNIT STATUS WORD

BIT

	0	SPECIFICATION CHECK
	1	NOT VALID STORAGE ADDRESS
PROGRAM CHECK	2	PRIVILEGE VIOLATE
	3	PROTECT CHECK
	4	NOT VALID FUNCTION
	5	FLOATING POINT EXCEPTION
SOFT EXCEPTION	6	STACK EXCEPTION
STATUS FLAG	7	4 BIT KEY ENABLE 4956E/4956-60E 4956H
	8	STORAGE PARITY CHECK
MACHINE CHECK	9	RESERVED
	10	CONTROL CHECK
	11	I/O CHECK
	12	SEQUENCE INDICATOR
STATUS FLAGS	13	AUTO IPL
	14	TRANSLATOR ENABLE
	15	POWER THERMAL WARN

IS THE IAR REFERENCED HEXADECIMAL
'2500' OR MORE?

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

1 1
2 1
M N

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MAP 3871-10

N
1
0

MCK OR PCK MAP
PAPER ONLY MAP

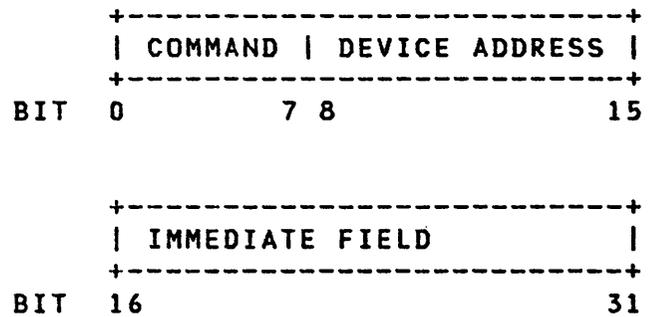
MAP 3871-11

PAGE 11 OF 26

022

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

IDCB FORMAT.



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

Y N

023

THIS IS A PROCESSING UNIT
PROBLEM.
THE IAR IS THE MAIN STORAGE
ADDRESS OF THE LAST INSTRUCTION
PERFORMED.
GO TO MAP 2070, ENTRY POINT A.

IF NO REPAIR, RETURN HERE.
GO TO PROCESSING UNIT MAP 2000
AND DIAGNOSE THE FAILURE.
REFERENCE PROCESSING UNIT MAP
2000 FOR INSTRUCTION(S) FOR
LOOPING THE PROCESSING UNIT
DIAGNOSTIC(S).
LOOP WITH STOP ON ERROR MAY BE
AN AID.
REFERENCE MAP NUMBER AND DEVICE
ADDRESS FROM BEFORE.
GO TO PAGE 24, STEP 067,
ENTRY POINT F.

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MAP 3871-11

1
2
P

M P MCK OR PCK MAP
1 1
0 1 PAPER ONLY MAP

MAP 3871-12

PAGE 12 OF 26

024

IS IT A CORRECT ADDRESS FOR A
DEVICE INSTALLED ON SYSTEM?

Y N

025

GO TO MAP 0070,
ENTRY POINT A.

026

GO TO PAGE 24, STEP 067,
ENTRY POINT F.

027

IS MCK STOP (3803 IN THE DATA
LAMPS)?

Y N

028

IS PCK STOP (3802 IN THE DATA
LAMPS)?

Y N

029

GO TO PAGE 23, STEP 065,
ENTRY POINT E.

030

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

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ECA33066 PECA10990

MAP 3871-12

1
3
Q

A
C
1
4

MCK OR PCK MAP
PAPER ONLY MAP
PAGE 15 OF 26

MAP 3871-15

041

IS BIT 05 ON IN THE PSW?

Y N

042

IS BIT 04 ON IN THE PSW?

Y N

043

IS BIT 03 ON IN THE PSW?

Y N

044

IS BIT 02 ON IN THE PSW?

Y N

045

IS BIT 01 ON IN THE PSW?

Y N

1 1 1 1 1 1
8 8 7 7 6 6
A A A A A A
D E F G H J

30SEP85 PN1635022

ECA33066 PECA10990

MAP 3871-15

A A MCK OR PCK MAP
H J
1 1 PAPER ONLY MAP
5 5
PAGE 16 OF 26

MAP 3871-16

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

PROCESSING UNIT CARD.
049
BIT 01 IS ON IN THE PSW.
THE STORAGE ADDRESS IS NOT VALID.
BIT 01 IS TURNED ON IF AN
INSTRUCTION ATTEMPTS TO READ OR
WRITE A STORAGE LOCATION THAT IS
NOT ON THE SYSTEM.
IF 4955 PROCESSING UNIT IS
INSTALLED,
EXCHANGE THE FOLLOWING:

ADDRESS CARD.
(STEP 049 CONTINUES)

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ECA33066 PECA10990

MAP 3871-16

A A
F G
1 1
5 5

MCK OR PCK MAP

MAP 3871-17

PAPER ONLY MAP

PAGE 17 OF 26

(STEP 049 CONTINUED)

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

PROCESSING UNIT CARD.

050

BIT 02 IS ON IN THE PSW.
PRIVILEGE VIOLATE.
BIT 02 IS TURNED ON IF A
PRIVILEGE INSTRUCTION IS
PERFORMED, AND THE SUPERVISOR
STATUS BIT (BIT 8) IN THE LEVEL
STATUS REGISTER IS OFF.
NOT SUPERVISOR STATUS.

IF 4955 PROCESSING UNIT IS
INSTALLED,
EXCHANGE THE FOLLOWING:

ADDRESS TRANSLATOR CARD.

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

PROCESSING UNIT CARD.

051

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

EXCHANGE THE FOLLOWING:

ADDRESS TRANSLATOR CARD.

ADDRESS CARD.

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ECA33066 PECA10990

MAP 3871-17

A A
D E
1 1
5 5

MCK OR PCK MAP

MAP 3871-18

PAPER ONLY MAP

PAGE 18 OF 26

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

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

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

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

EXCHANGE THE FOLLOWING:

DATA CARD.
FLOATING POINT CARD.

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ECA33066 PECA10990

MAP 3871-18

A A MCK OR PCK MAP
A B
1 1 PAPER ONLY MAP
4 4
PAGE 19 OF 26

MAP 3871-19

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

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

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

055
BIT 07 IS ON IN THE PSW.

IF 4955 PROCESSING UNIT IS
INSTALLED,
EXCHANGE THE FOLLOWING:

ADDRESS CARD.

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

PROCESSING UNIT CARD.

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ECA33066 PECA10990

MAP 3871-19

Y Z MCK OR PCK MAP
1 1
4 4 PAPER ONLY MAP

PAGE 20 OF 26

056

BIT 13 IS ON IN THE PSW.
AUTO IPL.

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

IF 4955 PROCESSING UNIT IS
INSTALLED,
EXCHANGE THE FOLLOWING:

ROS CARD.
ADDRESS CARD.

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

PROCESSING UNIT CARD.

057

BIT 14 IS ON IN THE PSW.
TRANSLATOR ENABLE.

IF 4955 PROCESSING UNIT IS
INSTALLED,
EXCHANGE THE FOLLOWING:

RELOCATION TRANSLATOR CARD.
ADDRESS CARD.

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

PROCESSING UNIT CARD.

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V X MCK OR PCK MAP
1 1
3 4 PAPER ONLY MAP

MAP 3871-21

| | PAGE 21 OF 26

| |

| 058

| BIT 15 IS ON IN THE PSW.
| POWER/THERMAL PROBLEM.
| GO TO MAP 1470, ENTRY POINT A.

| 059

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

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

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

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

IS THE SYSTEM O.K.?

Y N
| |
| |
| |

2 2
2 2
A A
K L

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MAP 3871-21

S T U A A MCK OR PCK MAP
 1 1 1 K L
 3 3 3 2 2 PAPER ONLY MAP
 1 1

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060

GO TO MAP 2070,
 ENTRY POINT A.

061

- VERIFY THE REPAIR.

062

BIT 09 IS ON IN THE PSW.
 NOT USED.

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

IF 4955 PROCESSING UNIT IS
 INSTALLED,
 EXCHANGE THE FOLLOWING:

 ADDRESS CARD.

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

 PROCESSING UNIT CARD.

063

THIS IS A SUSPECTED PROCESSING
 UNIT PROBLEM.

GO TO THE CORRECT PROCESSING
 UNIT MAP.

GO TO MAP 2070, ENTRY POINT A.

064

REFERENCE THE MAP NUMBER AND
 DEVICE ADDRESS FROM BEFORE.

GO TO PAGE 24, STEP 067,
 ENTRY POINT F.

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R MCK OR PCK MAP MAP 3871-23
1
3 PAPER ONLY MAP
PAGE 23 OF 26

065
(ENTRY POINT E)

BIT 12 IS ON IN THE PSW. THE I/O CHECK OCCURRED IN A CYCLE STEAL OPERATION.

THE MAP NUMBER, DEVICE TYPE AND ADDRESS MUST BE COMPATIBLE IF A DEVICE TYPE IS RUN.

THE CHECK OCCURRED IN A CYCLE STEAL OPERATION AND THIS MAY NOT BE CORRECT.

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

Y N

066
NOTE THE ATTACHMENT CARD INDICATED BY THE MAP NUMBER.
GO TO PAGE 25, STEP 069, ENTRY POINT G.

NOTE THE ATTACHMENT CARD INDICATED BY THE DEVICE ADDRESS OF THE IDCB, BIT(S) 08 TO 15.
GO TO PAGE 25, STEP 069, ENTRY POINT G.

2
4
A
M
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MAP 3871-23

A MCK OR PCK MAP MAP 3871-24
M
2 PAPER ONLY MAP
3 PAGE 24 OF 26

|
|
067
(ENTRY POINT F)

NOTE THE ATTACHMENT CARD
INDICATED BY THE ADDRESS OF THE
IDCB IF VALID FOR THE SYSTEM.

OR

NOTE THE ATTACHMENT CARD
INDICATED BY THE MAP NUMBER IF
VALID FOR THE SYSTEM.

IF THE MAP NUMBER AND THE ADDRESS
DO NOT COMPARE, AS IN A DISKETTE
UNIT ADDRESS AND A TTY MAP
NUMBER, BOTH DEVICE(S) ARE
SUSPECT.

HAVE YOU MADE A NOTE OF THE
INDICATED ATTACHMENT CARD(S)?

Y N

| 068
| NOTE SUSPECT ATTACHMENT CARD AS
| INDICATED ABOVE.
| GO TO PAGE 25, STEP 069,
| ENTRY POINT G.

2
5
A
N
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ECA33066 PECA10990
MAP 3871-24

A MCK OR PCK MAP
P
2 PAPER ONLY MAP
5
PAGE 26 OF 26

MAP 3871-26

|
|
071
(ENTRY POINT H)

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

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

Y N

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

|
| - RETURN THE SYSTEM.

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

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

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MAP 3871-26

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AND USER'S GUIDE

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(ENTRY POINT A)

OVERVIEW

CONFIGURATION

THE DIAGNOSTIC OPERATION OF A SERIES 1 IS BASED ON A CORRECT CONFIGURATION TABLE BEING STORED ON EACH DIAGNOSTIC DESKETTE.

THE UTILITY PROGRAM 38F0 BUILDS A TABLE BY EXECUTING A READ ID TO ALL DEVICE ADDRESSES (00-FF) AND CHECKING FOR VALID DEVICE ID'S. ADDITIONAL INFORMATION IS ADDED BY THE CSR IN RESPONSE TO MESSAGE PROMPTS PRESENTED BY THE PROGRAM. THIS MAP WILL ASSIST THE CSR IN THE USE OF PROGRAM 38F0.

DIAGNOSTIC DISKETTES SHIPPED WITH A SERIES 1 FROM THE PLANT OF MANUFACTURE WILL HAVE A CONFIGURATION TABLE WRITTEN ON THEM. THIS TABLE MAY HAVE TO BE MODIFIED DUE TO CHANGE/ADDITION OF FEATURES/TERMINAL IN THE FEILD.

NEW DIAGNOSTIC DISKETTES ORDERED BY PART NUMBER WILL NOT HAVE A TABLE WRITTEN ON THEM. IF A NEW BASIC DIAGNOSTIC DISKETTE IS IPL'D PROGRAM 38F0 WILL FORCE THE CSR TO AUTO CONFIGURE THE SYSTEM AND WRITE THE TABLE ON THE DISKETTE.

IT IS NECESSARY, AT INSTALLATIONS, TO CHECK THAT EACH FEATURE/DEVICE ENTRY IN THE TABLE IS CORRECT. SEE THE FEATURE PROLOGS FOR THE CORRECT CONFIGURATION ENTRY. IN MANY CASES IT IS NECESSARY TO REMOVE THE ATTACHMENT CARD AND COMPARE THE JUMPERS TO THE MLD PAGES.

ENSURE A CORRECT CONFIGURATION TABLE IS WRITTEN TO EACH DIAGNOSTIC DISKETTE BEFORE RUNNING DIAGNOSTICS.

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MAP 3880-2

08.00.00 CONFIGURATION PROGRAM: (PROGRAM ID = 38F0)

PURPOSE:

THE CONFIGURATION PROGRAM HAS THREE BASIC FUNCTION(S):

1. INITIAL CONFIGURATION OF A BASIC DIAGNOSTIC DISKETTE.
(SEE SECTION 08.01.00).
PROGRAM ASSEMBLES THE CONFIGURATION TABLE ON BASIC DISKETTE.
2. VERIFIES THE CONFIGURATION TABLE AS READ FROM THE DISKETTE.
(SEE SECTION 08.01.01).
THE TABLE READ FROM DISKETTE DESCRIBES SYSTEM HARDWARE FOR MDI.
NOTE: DIAGNOSTICS WILL NOT RUN ON A DEVICE THAT IS NOT IN TABLE.
3. AN ADD, DELETE OR CHANGE TO THE CONFIGURATION TABLE.
(SEE SECTION 08.01.02).
THE CONFIGURATION PROGRAM MAINTAINS THE CONFIGURATION TABLE ON THE DIAGNOSTIC DISKETTES.

TO USE THE CONFIGURATION PROGRAM, DO THE FOLLOWING:

IPL THE BASIC DIAGNOSTIC DISKETTE, THE SYSTEM WILL WAIT WITH A MESSAGE ON THE ALTERNATE CONSOLE OR A HALT CODE IN THE DATA LEDS ON THE PROGRAMMER CONSOLE. USE THE HALT CODE AND SECTION 08.01.06, THIS MAP, FOR THE PROPER RESPONSE.

WHEN THE BASIC DIAGNOSTIC DISKETTE IS CONFIGURED, WRITE THE CONFIGURATION TABLE (38F1) TO THE DIAGNOSTIC, SYSTEM TEST AND RPQ DISKETTE(S) WITH THE SYSTEM.

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08.01.00 INITIAL CONFIGURATION: (ENTRY 00, BYTE 03, BIT 07 = 0)

A PROGRAMMER CONSOLE IS NECESSARY FOR THIS CONFIGURATION
THIS BASIC DISKETTE HAS NEVER BEEN CONFIGURED.

IPL THE BASIC DIAGNOSTIC DISKETTE SEE SYSTEM ENTRY MAP 0020.
IF HALT 3800 OR ANY HALT 3821-38DF IS IN THE DATA LAMPS, THE
DISKETTE HAS BEEN CONFIGURED. GO TO SECTION 08.01.01.

HALT 3320 IS IN THE DATA LAMPS.
IF THERE IS NOT AN ALTERNATE CONSOLE INSTALLED ENTER A 6 TO
CONTINUE THE CONFIGURATION. GO TO SECTION 08.01.06.

IF YOUR CONFIGURATION INCLUDES A DEVICE OF A TYPE SUPPORTED BY
DCP AS AN ALTERNATE CONSOLE, (SEE 08.01.05), ENTER ITS ADDRESS
AND TYPE:
THE PROGRAM MAY PROMPT FOR ADDITIONAL ALTERNATE CONSOLE
INFORMATION IF NEEDED. SEE HALT CODE SECTION 08.01.06.

THE CONFIGURATION PROGRAM WILL DO A READ ID TO THAT ADDRESS. IT
WILL BE ASSIGNED AS THE ALTERNATE CONSOLE, THE CONFIGURATION
PROGRAM WILL WRITE THIS INFORMATION TO DISKETTE AND TERMINATE.

- IPL THE BASIC DIAGNOSTIC DISKETTE.

IF THE CONSOLE FUNCTION WAS ASSIGNED TO A 4978 OR 4980:
GO TO MAP 0030, ENTRY POINT A, AND DO THE KEYBOARD DESCRIPTION
IF THE KEYBOARD DESCRIPTION IS DONE, CONTINUE HERE.

3825 - FIRST AUTO CONFIGURATION

GO TO SECTION 08.01.06 AND ENTER THE PROPER RESPONSE FOR THE
HALT CODE DISPLAYED.

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MAP 3880-4

08.01.01 DISKETTE HAS BEEN CONFIGURED.

WHEN THE CONFIGURATION PROGRAM IS LOADED, IT WILL READ THE CONFIGURATION TABLE FROM DISKETTE AND CHECK ENTRY '00' FOR 'HAS BEEN CONFIGURED' (BYTE 03, BIT 07) AND ALTERNATE CONSOLE ASSIGNED (BYTES 08-0B).

IF AN ALTERNATE CONSOLE IS INDICATED IN ENTRY 00, (08.01.04) THE CONFIGURATION WILL DO A READ ID TO THE ADDRESS AND CHECK THE ID WORD WITH THE ID'S OF THE SUPPORTED CONSOLE(S). IF THE ID'S MATCH, THAT DEVICE IS ASSIGNED THE CONSOLE FUNCTION, AND ANY CONFIGURATION MESSAGE(S) WILL BE DISPLAYED TO IT.

CONFIGURATION WILL DO A READ ID TO ALL ADDRESSES (00-FF), COMPARE THE RESULT TO THE CONFIGURATION TABLE AS IT WAS READ FROM THE DISKETTE, AND CHECK THAT THE DEVICE TYPE (BYTE 01) IS VALID FOR THE ID WORD (BYTES 0E-0F). IF DIFFERENCES ARE FOUND, GO TO SECTION 08.01.02.

IF NO DIFFERENCES ARE FOUND:

- (1) IF PROGRAM WAS LOADED BY A 'C' OR 'B' COMMAND IT WILL DISPLAY THE OPTION TABLE AND CHANGES CAN BE MADE.
- (2) IF PROGRAM WAS LOADED AT IPL IT WILL TERMINATE AND 'RDY ENTER' WILL BE DISPLAYED.

NOTE: THE CONFIGURATION PROGRAM DOES NOT CHECK DEVICE DATA (BYTE 03 - 0D OF CONFIGURATION TABLE). DIAGNOSTIC FAILURES MAY OCCUR IF DEVICE DATA IS NOT CORRECT.

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MAP 3880-5

08.01.02 HANDLING CONFIGURATION ERRORS

AT THE MESSAGE:
CONFIGURATION ERROR (DATA LAMPS = 3822)
01=TERMINATE
02=PRINT ALL ERRORS
03=PRINT OPTIONS
04=BYPASS TWO CHANNEL SWITCH ERRORS
ENTER

01 WILL BYPASS ALL ERRORS AND TERMINATE THE PROGRAM.
04 WILL PRINT ONLY THE ERRORS IN THE PRIVATE I/O OF THE SYSTEM.

USE COMMAND 'F' TO ENTER '02'
SEE HALT CODE 3822 SECTION 08.01.06,
RECORD THE ERRORS THAT ARE DISPLAYED.

AT THE OPTION MENU, SELECT '01' TO LIST TABLE. COMPARE THE ERRORS RECORDED TO THE CONFIGURATION TABLE AND THE INSTALLED HARDWARE. SEE ATTACHMENT PROLOG AND ATTACHMENT MLD'S. IF THE CONFIGURATION TABLE IS CORRECT AND THE HARDWARE IS INSTALLED GO TO MAP 0020 ENTRY POINT MM AND TEST THE ATTACHMENT IN ERROR. IF THE TABLE IS NOT CORRECT, IT MUST BE CORRECTED USING THE FOLLOWING PROCEEDURE.

CHANGE THE CONFIGURATION TABLE:

THE DISKETTE HAS BEEN CONFIGURED BUT THE SYSTEM HAS CHANGED/ADDED/DELETED DEVICES, ADDRESS(ES) CHANGED, OR THE FIRST CONFIGURATION IS DONE AND DEVICE DATA MUST BE ADDED. (SEE SECTION 08.01.04)

LOAD PROGRAM 38F0, (B38F0)
USE COMMAND 'F' ENTER '03'.
MAKE THE CHANGES SEE OPTIONS SECTIONS 08.01.03.
USE OPTION 01 TO ENSURE THE TABLE IS CORRECT.
USE OPTION 0D TO WRITE THE TABLE TO THE BASIC DISKETTE. WRITE THE TABLE TO ALL DIAGNOSTIC, RPQ AND SYSTEM TEST DISKETTES.

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08.01.03 CONFIGURATION PROGRAM OPTION TABLE:

DIFFERENCES BETWEEN THE CONFIGURATION TABLE FROM DISKETTE AND THE RESULT OF THE READ ID'S TO ALL ADDRESSES WILL RESULT IN THE FOLLOWING ERROR MESSAGE:

CONFIGURATION ERROR (DATA LAMPS = 3822)
 01=TERMINATE
 02=PRINT ALL ERRORS
 03=PRINT OPTIONS
 04=BYPASS TWO CHANNEL SWITCH ERRORS
 ENTER

03 WILL PRINT OR DISPLAY THE OPTION TABLE WITHOUT THE CONFIGURATION TABLE OR CONFIGURATION ERRORS.

THE OPTIONS PRINT OR DISPLAY AS FOLLOWS:

00 = LIST TABLE OTHER DISKETTE	
01 = PRINT TABLE	0A = ADD FEATURE/ENTRY
02 = DELETE FEATURE/ENTRY	0B = MENU CONTROL
03 = CHANGE/DISPLAY ENTRY	0C = CONFIGURE SYSTEM
04 = CHANGE ALTERNATE CONSOLE	0D = WRITE TABLE ON BASIC
05 = TERMINATE	0E = ADD OEM
06 = CHANGE PROCESSING UNIT	0F = ADD FLOATING POINT
07 = CHANGE STORAGE SIZE	10 = ADD TERMINAL DATA
08 = SET PTCS OR TCS BITS	11 = COMBINE
09 = LIST SYSTEM EQUIPMENT	

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MAP 3880-7

08.01.03 (CONTINUED)

THE 'OPTION TABLE' FUNCTIONS ARE AS FOLLOWS:

FUNCTION 00 -- LIST TABLE-OTHER DISKETTE

YOU CAN PRINT OR DISPLAY A CONFIGURATION TABLE FROM ANY DIAGNOSTIC DISKETTE USING THE CONFIGURATION PROGRAM ON THE BASIC DISKETTE. THE PROGRAM WILL PROMPT WHEN TO CHANGE DISKETTES.

FUNCTION 01 -- LIST TABLE:

THE CONFIGURATION TABLE FROM STORAGE IS PRINTED OR DISPLAYED. DO NOT USE THIS OPTION IF A PROGRAMMER CONSOLE IS THE INPUT/OUTPUT DEVICE.

TO DISPLAY THE CONFIGURATION TABLE USING THE PROGRAMMER CONSOLE, STORAGE MUST BE DISPLAYED, STARTING AT LOCATION 'X3000'. SEE SECTION 08.01.04

FUNCTION 02 -- DELETE FEATURE/ENTRY :

THIS FUNCTION HAS FOUR OPTIONS.

FEATURE DELETE - ENTERING A DEVICE BASE ADDRESS WILL CAUSE ALL THE ENTRIES FOR THAT DEVICE TO BE DELETED. CAN BE USED WITH SINGLE ENTRY DEVICES OR MULTI ENTRY DEVICES.

ENTRY DELETE - ENTERING A DEVICE ADDRESS WILL CAUSE ONE ENTRIES TO BE DELETED.

FLOATING POINT - WILL DELETE THE FLOATING POINT ENTRY

TCS/PTCS - SET BYTE 02 BIT 06 TO ZERO FOR THOSE ENTRIES INSTALLED IN COMMON I/O OF A TWO CHANNEL SWITCH SYSTEM.

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MAP 3880-8

08.01.03 (CONTINUED)

FUNCTION 03 -- CHANGE/DISPLAY ENTRY:

THE PROGRAM WILL REQUEST THE DEVICE ADDRESS. ENTER THE DEVICE ADDRESS OF THE ENTRY YOU WANT TO CHANGE/DISPLAY. THE PROGRAM WILL DISPLAY THE PRESENT ENTRY. TO CHANGE THE ENTRY ENTER THE CORRECT DATA UNDER THE OLD ENTRY IN THE SAME PRINT COLUMN UP TO THE CHANGED WORD ONLY. THE REMAINDER OF THE ENTRY NEED NOT BE ENTERED BY YOU. IT WILL REMAIN THE SAME.

IF NO CHANGE IS REQUIRED ENTER ONLY THE COMMAND 'F'

FUNCTION 04 -- CHANGE ALTERNATE CONSOLE:

THE PROGRAM WILL ENTER THE ALTERNATE CONSOLE DEVICE ADDRESS AND DEVICE TYPE IN BYTE(S) 08 AND 09 OF ENTRY 00 OF THE CONFIGURATION TABLE. THE PROGRAM MAY PROMPT FOR ADDITIONAL INFORMATION FOR BYTES 0A - 0B. AFTER THE CONFIGURATION TABLE IS WRITTEN TO THE DISKETTE, IF YOU IPL AGAIN, THE NEW CONSOLE WILL BE THE ALTERNATE CONSOLE TO USE.

NOTE: AN ENTRY OF F0000 WILL DELETE THE ALTERNATE CONSOLE FROM THE CONFIGURATION TABLE ON THE DISKETTE. AT THE NEXT IPL THE CONSOLE FUNCTION WILL BE ASSIGNED TO THE PROGRAMMER CONSOLE.

FUNCTION 05 -- TERMINATE.

IF FUNCTION '05' IS SELECTED AFTER USING FUNCTIONS 00, 01, 09 OR 0B (NO CHANGE TO CONFIGURATION TABLE), THE PROGRAM WILL TERMINATE AND DCP WILL PROMPT 'ENTER'.

IF ANY OTHER FUNCTION HAS BEEN USED, FUNCTION 05 WILL PROMPT THIS MESSAGE:
SHOULD CHANGES BE WRITTEN ON DISKETTE.

A CHANGE WAS MADE TO THE CONFIGURATION TABLE AND YOU INFORMED THE PROGRAM TO TERMINATE WITHOUT WRITING THE CHANGE. IF THE CHANGES ARE CORRECT, THEY SHOULD BE WRITTEN ON THE DISKETTE.

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08.01.03 (CONTINUED)

FUNCTION 06 -- PROCESSING UNIT TYPE

THE PROGRAM WILL ENTER THE PROCESSING UNIT TYPE CODE IN BYTE 05 OF ENTRY 00. AFTER WRITING TO DISKETTE, IPL TO INFORM DCP OF THE NEW PROCESSING UNIT TYPE. IT WILL ALSO CREATE AN ENTRY FOR NATIVE TIMER FOR SOME PROCESSORS

FUNCTION 07 -- CHANGE STORAGE SIZE ENTRY 00, BYTES 06 AND 07:

THE PROGRAM TAKES THE STORAGE SIZE AND TRANSLATOR/EXPANDER INFORMATION AND PUTS IT IN ENTRY 00.

THIS IS A HEXADECIMAL NUMBER. THE STORAGE SIZE IS IN THE CONFIGURATION TABLE IN STORAGE. THE STORAGE SIZE MUST BE WRITTEN ON THE DISKETTE. YOU MUST IPL THE SYSTEM WHEN THIS IS DONE, OR THERE WILL BE ERRORS IN SOME DIAGNOSTICS.

FUNCTION 08 -- TWO CHANNEL SWITCH ENTRY (ENTRY BYTE 02, BIT 06):

NOTE THE ATTACHMENT(S) OR DEVICE(S) INSTALLED AS COMMON I/O. THE TWO CHANNEL SWITCH IS NOT PART OF THE 'COMMON I/O' UNLESS MORE THAN ONE (1) TWO CHANNEL SWITCH CONFIGURATION IS INSTALLED. ALL 'COMMON I/O' ATTACHMENTS MUST HAVE BYTE 02 BIT 06 SET TO A ONE (1). THE CONFIGURATION PROGRAM SEES THE DIFFERENCE BETWEEN A CONFIGURATION ERROR AND AN ERROR MADE WHEN THE TWO CHANNEL SWITCH IS CONNECTED TO THE 'OTHER' PROCESSING UNIT.

BYTE 02 BIT 06 IS SET TO A '1' IN THE SELECTED TABLE ENTRY.

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MAP 3880-10

08.01.03 (CONTINUED)

FUNCTION 09 -- PRINT OR DISPLAY SYSTEM EQUIPMENT:

THE PROGRAM WILL PRINT OR DISPLAY THE SYSTEM HARDWARE CONFIGURATION AS READ BY THE PROGRAM. ANY ATTACHMENT NOT RESPONDING TO A READ ID COMMAND WILL NOT BE LISTED.

49XX

ADD DT RID NAME

00 40 0010 TTY

ADD = ADDRESS

02 44 0406 DISPLAY

DT = DEVICE TYPE

06 48 0106 DISKETTE

RID = READ ID

07 78 00A2 DISK

NAME = NAME OF DEVICE

NOTE: DO NOT USE FUNCTION 09 IF PROGRAMMER CONSOLE IS OUTPUT.

FUNCTION 0A - - ADD FEATURE/ENTRY:

THIS FUNCTION HAS TWO OPTIONS.

FEATURE ADD - ENTERING A DEVICE BASE ADDRESS WILL CAUSE ALL THE ENTRIES FOR THAT DEVICE TO BE ADDED. CAN BE USED WITH SINGLE ENTRY DEVICES OR MULTI ENTRY DEVICES. FEATURE MUST BE INSTALLED.

ENTRY ADD - ENTERING A DEVICE ADDRESS WILL CAUSE ONE ENTRIES TO BE ADDED IF FEATURE IS INSTALLED. IF FEATURE IS NOT INSTALLED A DUMMY ENTRY WILL BE DISPLAYED AS A GUIDE. ENTER THE NEW ENTRY USING THE SAME PRINT COLUMNS.

FUNCTION 0B -- MENU CONTROL:

IF 0B IS USED, THE OPTION TABLE WILL NOT PRINT OR DISPLAY. IF THIS FUNCTION IS SELECTED AGAIN, THE OPTION TABLE WILL PRINT OR DISPLAY.

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MAP 3880-11

08.01.03 (CONTINUED)

FUNCTION 0C -- CONFIGURE SYSTEM:

BEFORE USING THIS FUNCTION THE CSR MUST BE FAMILIAR WITH THE SYSTEM. USE MACHINE HISTORY, CARD PLUG CHART AND CARD JUMPERING INFORMATION TO ANSWER THE PROMPTS.

ALTERNATE CONSOLE DEVICE ADDRESS DEVICE TYPE
STORAGE SIZE
SPECIFY CODE FOR TP DEVICES
TYPE TERMINAL ATTACHED
SUBADDRESS OF TERMINAL
PORT ADDRESS AND LINE SPEED
SEE SECTION 08.01.06 FOR PROPER ENTRIES.

FUNCTION 0D -- WRITE TABLE ON BASIC:

CHANGES TO THE CONFIGURATION TABLE MUST BE WRITTEN ON THE BASIC DISKETTE AND TO ALL DISKETTES WITH THE SYSTEM. THIS FUNCTION WILL WRITE TO THE BASIC DISKETTE AND THEN GIVE AN OPTION TO WRITE THE OTHER DISKETTES.

WHEN ALL DISKETTES WITH THE SYSTEM HAVE THE 'NEW' CONFIGURATION TABLE WRITTEN, RE-IPL THE SYSTEM BEFORE RUNNING ANY DIAGNOSTICS.

FUNCTION 0E -- ADD OEMI ENTRY:

OEMI DEVICE TYPE IS 'A3'.

THE OEMI ENTRY WILL BE ADDED TO THE CONFIGURATION TABLE AS FOLLOWS:

|AA|A3|00|00|00|00|00|00|00|00|00|00|00|00|00|

AA = ADDRESS.

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08.01.03 (CONTINUED)

FUNCTION OF -- ADD FLOATING POINT ENTRY:

FLOATING POINT DEVICE TYPE IS '3D'.

THE ENTRY IS IN THE CONFIGURATION TABLE AS FOLLOWS:

```
|00|3D|00|00|00|00|00|00|00|00|00|00|00|00|00|
00 = ADDRESS.
```

FUNCTION 10 -- ADD TERMINAL DATA:

USED TO CHANGE/ADD TERMINAL DATA.

THIS OPTION ALLOWS TERMINAL DATA TO BE ENTERED BY DEVICE ADDRESS.

FUNCTION 11 -- COMBINE:

YOU CAN COMBINE A CONFIGURATION TABLE FROM ONE DISKETTE WITH THE TABLE ON THE BASIC DISKETTE. BEFORE USING THIS FUNCTION, DISPLAY THE CONFIGURATION FROM BOTH DISKETTES AND MAKE CORRECTIONS FOR ANY DUPLICATE ADDRESS. FLOATING POINT APPEARS TO BE ADDRESS '00' AND WILL NOT ALLOW ANY OTHER ADDRESS '00' TO BE ADDED. DURING THE COMBINE FUNCTION ANY DUPLICATE ADDRESSES FOUND ON THE TWO DISKETTE WILL CAUSE AN ERROR TO BE DIAPLAYED. THE DUPLICATE ADDRESS ON THE FROM DISKETTE WILL 'NOT' BE ADDED TO THE CONFIGURATION TABLE IN STORAGE. AFTER THE OPERATION IS COMPLETE DISPLAY THE COMBINED TABLE, CORRECT THE ERRORS AND WRITE THE CONFIGURATION TO ALL DISKETTE.

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08.01.04 ASSEMBLING A CONFIGURATION TABLE ENTRY:

```

+-----+
| NOTE: FOR CONFIGURATION INFORMATION ON ANY DEVICE |
| SEE THE DEVICE MAPS PROLOG PARAGRAPH 5.1. |
+-----+
    
```

THE CONFIGURATION TABLE HAS AN ENTRY 00 (SYSTEM INFORMATION), AND ONE ENTRY FOR EACH ADDRESS USED. IF A 4982 SENSOR I/O ATTACHMENT IS INSTALLED, AN ENTRY IS NECESSARY (DEVICE TYPE = A4) TO DESCRIBE THE 4982. THE FLOATING POINT FEATURE (DEVICE TYPE = 3D) MUST HAVE AN ENTRY. DEVICE TYPE 37 (NATIVE TIMER) WILL HAVE AN ENTRY IF THE PROCESSOR CARD INCLUDES A TIMER.

SEE EXAMPLE BELOW OF A CONFIGURATION TABLE IN STORAGE:

NOTE: CONFIGURATION TABLE IS IN STORAGE ONLY AT CONFIGURATION PROGRAM EXECUTION TIME.

ENTRY# |<--- STORAGE LOCATION X3000

00	00 00 0D 01 00 25 F8 01 00 40 01 00 00 00 00 01
01	02 48 00 00 00 00 00 00 00 00 00 00 00 00 01 06
02	88 A4 00 00 0X 00 8C 01 8B 01 00 00 00 00 00 00
03	88 A8 40 00 00 00 00 00 00 00 00 00 00 00 80 28
04	89 A8 40 00 00 00 00 00 00 00 00 00 00 00 80 30
05	8A A8 00 00 00 01 00 00 00 00 00 00 00 00 80 38
06	8B B4 00 18 00 18 00 00 00 00 00 00 00 00 80 18
07	8C B0 00 08 00 08 00 00 00 00 00 00 00 00 80 08
08	80 E9 40 01 00 00 00 00 82 F8 00 00 00 00 26 0E
09	81 E9 40 02 00 00 00 00 00 1A 00 00 00 00 26 0E
0A	82 E9 40 05 00 00 00 00 00 1A 00 00 00 00 26 0E
0B	83 E9 40 0A 00 00 00 1F 80 FC 00 00 00 00 26 0E
0C	84 E9 40 10 00 00 00 00 00 19 00 00 00 00 26 0E
0D	85 E9 20 10 00 00 00 00 00 18 00 00 00 00 26 0E

08.01.04 (CONTINUED)

USE THIS TABLE TO ASSEMBLE A CONFIGURATION TABLE FOR YOUR SYSTEM. SEE THE ENTRY DESCRIPTIONS FOLLOWING.

		CONFIGURATION BYTES																
NUMBER	ADDRESS	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
00	3000																	
01	3010																	
02	3020																	
03	3030																	
04	3040																	
05	3050																	
06	3060																	
07	3070																	
08	3080																	
09	3090																	
0A	30A0																	
0B	30B0																	
0C	30C0																	
0D	30D0																	
0E	30E0																	
0F	30F0																	

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08.01.04 (CONTINUED)

		CONFIGURATION BYTES																
ENTRY NUMBER	STORAGE ADDRESS	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	DEVICE
10	3100																	
11	3110																	
12	3120																	
13	3130																	
14	3140																	
15	3150																	
16	3160																	
17	3170																	
18	3180																	
19	3190																	
1A	31A0																	
1B	31B0																	
1C	31C0																	
1D	31D0																	
1E	31E0																	
1F	31F0																	

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08.01.04 (CONTINUED)

ENTRY 00 (SYSTEM ENTRY):

BYTE 00 - 01	=	00
BYTE 02	=	ENTRY NUMBER OF LAST ENTRY IN TABLE
BYTE 03	=	CONFIGURATION FLAGS
BITS 00-06	=	ALWAYS 00, RESERVED
BIT 07	=	0 = DISKETTE NOT CONFIGURED 1 = CONFIGURED
BYTE 04	=	CONFIGURATION FLAGS
BYTE 05	=	2X = PROCESSING UNIT TYPE 2X = 495X
BYTE 06-07	=	XXXX STORAGE WORD.
BIT 0-3	=	AMOUNT OF INNER STORAGE INSTALLED 3=16K 7=32K B=48K F = 64K
BIT 4	=	ADDRESS TRANSLATOR OR EXPANDER INSTALLED 0 = NO, 1 = YES
BIT 5-15	=	HEX NUMBER OF 16K BLOCKS OF INSTALLED OUTER STORAGE
BYTE 08-09	=	ALTERNATE CONSOLE ADDRESS AND TYPE (AATT).
BYTE 0A-0B	=	MORE ALTERNATE CONSOLE BITS, IF NEEDED.
BYTE 0C-0E	=	00
BYTE 0F	=	XX LEVEL OF THIS CONFIGURATION TABLE.

INNER STORAGE IS STORAGE THAT IS ADDRESSED BY SAR. OUTER STORAGE IS ADDRESSED USING TRANSLATOR/EXPANDER. STORAGE WORD = 7802 IS ONE 32K OR TWO 16K CARDS IN INNER STORAGE AND ONE 32K OR TWO 16K CARDS IN OUTER STORAGE AND AN ADDRESS TRANSLATOR/EXPANDER INSTALLED.

***** SEVERAL DEVICE MDIS MEASURE TIME. *****
INSTRUCTION EXECUTION TIME IS GIVEN TO MAPS BY 495X TYPE.
WRONG PROCESSING UNIT TYPE WILL CAUSE MAPS TO FAIL.

NOTE: CHANGE BYTES 05-09 IN ENTRY 00, USING FUNCTIONS 04, 06 OR 08. ALL OTHER INFORMATION IS ENTERED BY THE PROGRAM.

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MAP 3880-17

08.01.04 (CONTINUED)

ENTRIES 01-XX (DEVICE ENTRIES):

BYTE 00	=	DEVICE ADDRESS
01	=	DEVICE TYPE. SEE 02.01.00 AND 08.01.05, THIS DOCUMENT, OR ATTACHMENT/DEVICE PROLOG.
BYTE 02	=	FLAG BYTE (NOTE 1 AND 2)
BIT 0	= 1	DCP GIVES THE DEVICE ENTRY TO DIAGNOSTIC..
1	= 1	THIS ENTRY IS CHAINED TO THE NEXT ENTRY
2	= 1	THE LAST ENTRY IN THE AREA RESERVED FOR THE CONFIGURATION TABLE.
3	= 1	THE LAST ENTRY IN THIS SECTOR
4	= 1	THE DEVICE IS CONNECTED TO THE DIAGNOSTIC. (CONNECT INTERRUPT CONTROL BLOCK)
5	= 1	RETURN ALL INTERRUPTS TO DIAGNOSTIC PROGRAM.
6	= 0	IF TWO CHANNEL SWITCH IS NOT INSTALLED.
	= 1	IF AN ATTACHMENT IS INSTALLED AS COMMON I/O IF A TWO CHANNEL SWITCH CARD IS INSTALLED. SEE THE TWO CHANNEL SWITCH PROLOG 3E00.
7	= 1	LAST ENTRY IN THE CONFIGURATION TABLE.
BYTE 03-0D	=	DEVICE DATA (NOTE 3)
BYTE 0E-0F	=	DEVICE ID WORD.

NOTE 1 BYTE 02, BITS 1 AND 6 ARE THE ONLY BITS ENTERED BY CSR. THE CONFIGURATION PROGRAM WILL ENTER THE OTHERS AS NEEDED.

NOTE 2 THE CHAIN BIT (BYTE 02 BIT 1) IS USED TO PASS TWO OR MORE ENTRIES TO AN MDI PROGRAM/DIAGNOSTIC. THE WRONG USE OF THE CHAIN BIT CAN CAUSE MDI FAILURES. FOR EXAMPLE:
 A MISSING CHAIN BIT CAUSES NEEDED INFORMATION NOT TO BE USED BY MDI. EXTRA CHAIN BITS CAUSE MDIS TO BE BYPASSED DURING AN AUTO RUN.

NOTE 3 DEVICE DATA DESCRIBES THE DEVICE TO ITS MDI/DIAGNOSTIC. IF WRONG THERE WILL BE FAILURES. WHEN CONFIGURATION PROGRAM IS LOADED, IT DOES NOT CHECK DEVICE DATA. SEE 08.01.05 THIS MAP

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08.01.05 DEVICE TYPE AND ID WORD TABLE:

FEATURE NAME	DEVICE		DEVICE OR FEATURE DESCRIPTION	FIRST REC ADDRESS
	TYPE	ID		
3920	3D	NONE	FLOATING POINT ATTACHMENT	NONE
3925	3D	NONE	FLOATING POINT ATTACHMENT 4954/56	NONE
3926	3D	NONE	FLOATING POINT ATTACHMENT 4956E	NONE
7900	3E	0030	TWO CHANNEL SWITCH ATTACHMENT	23
7777	3F	003C	PROGRAMMABLE TWO CHANNEL SWITCH	23
7845	40	0010	TTY ATTACHMENT	100
1400	41	320E	SERIES/1 LINK ATTACHMENT	50-52
4979	44	0406	DISPLAY STATION	104
4978	45	040E	DISPLAY STATION	124
4964	48	0106	DISKETTE	102
4966	4A	0126	DISKETTE	122
4965	4B	5212	DISKETTE AND 4952/4/6/MOD C	44-45
4965D	4D	5152	DISKETTE AND 4952/4/6 MOD D 4956-EXX	45 45
7840	50	0028	TIMER	40-41
4969	58	3X86	MAGNETIC TAPE UNIT	48
4968	59	0102	MAGNETIC TAPE UNIT	106
4974	64	0206	MATRIX PRINTER	101
4973	68	0306	LINE PRINTER	121
5640	6A	212E	LINE PRINTER 5200 SERIES	160
	70	2X02	MCA 5 1/4 INCH DISKETTE	160
	71	2X02	MCA DISK	
4962	78	00XX	DISK UNIT	103
4962	79	00XX	DISK UNIT	103
4963	7A	3106	DISK UNIT	148
4967	7B	3116	DISK UNIT	1F0
4965D	7C	5152	DISK UNIT 4952/4/6 MOD D 4956-EXX	44 44
3101	81	0416	DISPLAY	160
RPQ	8X	XXXX	ANY RPQ DEVICE	1XX
RPQ	9X	XXXX	ANY RPQ DEVICE	1XX

DEVICE TYPE AND ID WORD TABLE CONTINUED ON NEXT PAGE.

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08.01.05 (CONTINUED)

DEVICE TYPE AND ID WORD TABLE CONTINUED:

FEATURE NAME	DEVICE		DEVICE OR FEATURE DESCRIPTION	FIRST RECO ADDRESS
	TYPE	ID		
1560	A0	C010	INTEGRATED DIGITAL IN (DI)	48-49
1560	A0	C018	INTEGRATED DIGITAL OUT (DO)	4A-4B
5430	A3	XXXX	CUSTOMER OEMI ATTACHMENT	90
4982	A4	80XX	SENSOR I/O ATTACHMENT	60
1060	A8	8020	BASIC AI WITHOUT AMPLIFIER	
1070	A8	8028	BASIC AI WITH AMPLIFIER	
4940	A8	8030	AI RELAY MULTIPLEXOR	
4950	A8	8038	AI SOLID MULTIPLEXOR	
1065	A9	8040	ANALOG OUT (AO)	
3530	B0	8008	DIGITAL IN (DI) ISOLATED	
3525	B0	8010	DIGITAL OUT (DI) NON ISOLATED	
3535	B4	8018	DIGITAL OUT (DO)	
D02761	C0	6X12	CONTROLLER-STORAGE-MODEM	48
D02840	C4	6226	MULTILINE CONTROLLER	48
1230	C5	6X12	CHANNEL ATTACH	48
1200	D8	4002	370 CHANNEL ATTACHMENT	20
4000	D9	321E	SERIES 1 TO PERSONAL COMPUTER	58
1300	E0	2X1E	4987 COMMUNICATION SUBSYSTEM	C0
	E3	2X02	MULTI-COMMUNICATION CONTROLLER	XX
1210	E4	0416	52X1 INFORMATION DISPLAY SYSTEM	05
1310	E6	3X36	MULTI-FUNCTION ATTACHMENT	58
1610	E8	100E	ACCA ONE LINE ADAPTER	08
2092	E9	2X0E	ACCA MULTILINE ADAPTER	
2096	EA	2X16	FEATURE PROGRAMMABLE MULTILINE COMMUNICATION	68
7880	EB	2X12	TELEPHONE COMMUNICATION CONTROL	60
T08000	ED	0012	ATTACHED PROCESSOR	07
2074	F0	1006	BSCA MEDIUM SPEED	09
2075	F0	1006	BSCA HIGH SPEED	09
2094	F1	2X06	BSCA MULTILINE ADAPTER	
2090	F8	1016	SDLC MEDIUM SPEED	0A
1250	F9	2XXE	WORK STATION ATTACHMENT (4980)	60
2080	FC	5042	SYNCHRONOUS COMMUNICATION (SCSLC)	09
D40000	FD	26CF	X 25 MULTILINE CONTROLLER	28

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08.01.05 (CONTINUED)

DEVICE DATA/SPECIFY CODE

DEVICE DATA IS ENTERED BY THE CSR BY ANSWERING QUESTIONS DURING CONFIGURATION. IT IS ALSO ENTERED WHEN THE CSR ENTERS A SPECIFY CODE FOR A COMMUNICATION ATTACHMENT.

THE CSR MUST COMPARE THE JUMPERS ON THE ATTACHMENT CARD TO A CHART IN THIS MAP TO SELECT A SPECIFY CODE FOR THAT ATTACHMENT. IF NO SPECIFY CODE EXIST FOR THE JUMPERS, ENTER F0000 TO COMPLETE THE CONFIGURATION. IT WILL THEN BE NECESSARY TO USE OPTION 03 (CHANGE) AND THE DEVICE PROLOG TO ENTER THE DEVICE DATA FOR THIS ENTRY.

DEVICE DATA MUST ENTERED CORRECT FOR SOME DIAGNOSTIC TO RUN CORRECT.

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MAP 3880-21

08.01.06 CONFIGURATION HALT CODES:

34XX	HALT CODES	MAP/PAGE MAP 0016
3800 TO 3819	HALT CODES	MAP 0013
3CXX	HALT CODES	MAP 0013

COMMON HALT LIST

HALTS ARE IDENTIFIED BY: 'WAIT' LAMP 'ON'.

IF THE 'STOP' LAMP IS 'ON', THE STOP WAS EXECUTED BY THE PROCESSING UNIT AND STORAGE TESTS. DCP DID NOT RECEIVE CONTROL. GO TO THE PROCESSING UNIT MAP FOR THE PROCESSING UNIT INSTALLED. SEE THE HALT CODE IN THE DATA LAMPS OR THE ERROR MESSAGE.

FOR ANY 3820 - 3869 OR 3869 - 38FF HALT CODES USE THIS MESSAGE GUIDE TO DETERMINE WHAT ACTION MUST BE TAKEN.

FOR ANY 34XX HALT CODES (SYSTEM TEST) GO TO MAP 0016.

CONFIGURATION PROGRAM HALTS

THE WORD 'DISPLAY' USED IN THE FOLLOWING HALT LIST = :
 A DEVICE HAVING A PRINTED MESSAGE OUTPUT, OR:
 A PROGRAMMER CONSOLE WITH THE DATA LAMPS AS THE MESSAGE OUTPUT.

THIS SECTION IS USED TO IDENTIFY THE HALT CODE AND TO GIVE THE PROPER RESPONSE. IT WILL ALSO GIVE POSSIBLE ACTION TO SOLVE CONFIGURATION PROBLEM.

MESSAGES ARE LISTED IN HEXIDECIMAL ORDER.

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3820 - ALTERNATE CONSOLE DEVICE ADDRESS AND TYPE

COMMENT

THIS DISKETTE HAS NEVER BEEN CONFIGURED.
 THE ALTERNATE CONSOLE MUST BE ASSIGNED.

ACTION

- ENTER THE ALTERNATE CONSOLE DEVICE ADDRESS AND TYPE.

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
FAATT	(B) 1F (I)
ENTER/RETURN	(B) AATT (I) (I)

AA = DEVICE ADDRESS
 TT = DEVICE TYPE

IF AN ALTERNATE CONSOLE IS NOT INSTALLED, ENTER '6' TO CONTINUE
 THE CONFIGURATION FROM THE PROGRAMMER CONSOLE.

AN ALTERNATE CONSOLE IS:	AA TT	AN ALTERNATE CONSOLE IS:	AA TT
4973 PRINTER	AA68	MULTIFUNCTION	AAE6
4974 PRINTERS	AA64	31XX-7485-4975	
5200 PRINTERS	AA6A	31XX RPQ D02350	AA81
TTY ATTACHMENT	AA40	31XX ACCA SL	AAE8
		31XX ACCA ML	AAE9
		31XX FPMLC	AAEA
5251/5291	AAE4	4978	AA45
		4979	AA44
		4980	AAF9
		7485 RPQ D02350	AA81

THE PROGRAM MAY PROMPT FOR ADDITIONAL INFORMATION.
 WHEN THE ALTERNATE CONSOLE HAS BEEN ASSIGNED THE PROGRAM WILL
 TERMINATE. BEGIN 38F0 OR IPL TO COMPLETE THE CONFIGURATION.

3821 - ALTERNATE CONSOLE DEVICE ADDRESS AND TYPE

COMMENT

A RESPONSE OF 'AATT' WILL ASSIGN THE CONSOLE FUNCTION TO THE DEVICE ADDRESS AND DEVICE TYPE OF 'AATT'.

A RESPONSE OF '0000' WILL ASSIGN THE CONSOLE FUNCTION TO THE PROGRAMMER CONSOLE.

ACTION

- ENTER ALTERNATE CONSOLE DEVICE ADDRESS AND TYPE:

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

FAATT
ENTER/RETURN

(B) 1F (I)
(B) AATT (I) (I)

AA = DEVICE ADDRESS
TT = DEVICE TYPE

AN ALTERNATE CONSOLE IS:	AA TT
4973 PRINTER	AA68
4974 PRINTER	AA64
5200 PRINTERS	AA6A
TTY ATTACHMENT	AA40
5251/5291	AAE4

AN ALTERNATE CONSOLE IS	AA TT
MULTIFUNCTION	AAE6
31XX-7485-4975	
31XX RPQ D02350	AA81
31XX ACCA SL	AAE8
31XX ACCA ML	AAE9
31XX FPMLC	AAEA
4978	AA45
4979	AA44
4980	AAF9
7485 RPQ D02350	AA81

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3822 - CONFIGURATION TABLE DOES NOT MATCH SYSTEM

- 01=TERMINATE
- 02=PRINT ALL ERRORS
- 03=PRINT OPTIONS
- 04=BYPASS TWO CHANNEL SWITCH ERRORS

COMMENT

THERE ARE CONFIGURATION ERROR(S) ON THE SYSTEM.
 A REPLY OF '01' WILL CAUSE THE CONFIGURATION PROGRAM TO BYPASS ALL ERRORS AND TERMINATE. DCP WILL PROMPT 'ENTER'.

A REPLY OF '02' WILL CAUSE THE CONFIGURATION PROGRAM TO PRINT OR DISPLAY THE ERRORS FOLLOWED BY THE OPTION TABLE.

A REPLY OF '03' WILL PRINT OR DISPLAY THE FUNCTION(S) WITHOUT THE CONFIGURATION TABLE OR CONFIGURATION ERRORS.

A REPLY OF '04' WILL CAUSE THE CONFIGURATION PROGRAM TO PRINT OR DISPLAY THE ERRORS AND TERMINATE THE PROGRAM. IT WILL NOT PRINT OR DISPLAY 'IN TABLE NOT IN HARDWARE' ERROR MESSAGE(S) IF A TWO CHANNEL SWITCH CARD IS CABLED TO THE PROCESSING UNIT YOU ARE USING TO RUN THE DIAGNOSTIC(S), AND THE COMMON I/O ARE SWITCHED TO THE OTHER PROCESSING UNIT.

ACTION

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
FXX	(B) 1F (I)
ENTER/RETURN	(B) XX00 (I) (I)
	XX = OPTION SELECTION

CONFIGURATION ERRORS SHOULD BE CORRECTED BEFORE DIAGNOSTIC TEST ARE RUN.

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3823 - DISCONNECT THE CUSTOMER INTERFACE.

COMMENT

IF THE CONFIGURATION PROGRAM SEES ANY CUSTOMER INTERFACE DEVICE (INCLUDING TTY ATTACHMENT) IT WILL DISPLAY THIS MESSAGE.

ACTION

IF THE CONSOLE FUNCTION IS ASSIGNED TO A PRINTER (NO KEYBOARD) OR TO THE PROGRAMMER CONSOLE, ENTER '6' WHEN THE INTERFACE IS DISCONNECTED.

ALTERNATE CONSOLE ENTRY:

ENTER ON PROGRAMMER CONSOLE:

NONE REQUIRED

(B) 6 (I) (I) RESUME

3824 - RPQ ON SYSTEM.

COMMENT

THE CONFIGURATION PROGRAM FOUND AN RPQ INSTALLED.

WARNING MESSAGE ONLY

(DEVICE TYPE 8X OR 9X) ARE RPQ'S THAT DO NOT RUN IN AUTO MODE. RUN RPQ DIAGNOSTIC(S) IN MANUAL MODE, AFTER AN AUTO RUN.

ACTION

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

NONE REQUIRED

(B) 6 (I) (I) RESUME

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MAP 3880-26

3825 - FIRST AUTO CONFIGURATION

COMMENT
THE DISKETTE HAS AN ALTERNATE CONSOLE ASSIGNED.
THE FIRST AUTO CONFIGURATION MUST BE COMPLETED.

ACTION
IF THE CONSOLE FUNCTION IS ASSIGNED TO THE PROGRAMMER CONSOLE,
ENTER '6' TO CONTINUE.

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
NONE REQUIRED	(B) 6 (I) (I) RESUME

3826 - SELECT THE CONSOLE TO BE ASSIGNED

COMMENT
SELECT THE ALTERNATE CONSOLE THAT IS INSTALLED

ACTION
ENTER ON ALTERNATE CONSOLE: ENTER ON PROGRAMMER CONSOLE:

FXX ENTER/RETURN (B) 1F (I)(B) XX00 (I)(I)

- XX = 00 = 3101/315X/316X DISPLAY
- 01 = 7485 MOD 53 DISPLAY
- 02 = 7485 MOD 63 DISPLAY
- 03 = 4975 MOD 01L PRINTER (MFA ONLY)
- 04 = 4975 MOD 02L PRINTER (MFA ONLY)

IF THIS IS THE FIRST CONFIGURATION, THE PROGRAM WILL TERMINATE.
IPL THE SYSTEM.

IF THIS IS NOT THE FIRST CONFIGURATION REMEMBER TO WRITE THIS
CHANGE TO THE DISKETTE.

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3827 - 5200 PRINTER ADDRESS = 0X
X = ON PORT ZERO 0 - 6
X = ON PORT ONE 8 - E

COMMENT

THE PROGRAM IS REQUESTING THE SUBADDRESS FOR THE PRINTER TO BE ASSIGNED AS THE ALTERNATE CONSOLE.

ACTION

ENTER THE SUBADDRESS FOR THE 5200 THAT IS TO BE THE ALTERNATE CONSOLE.

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
FOX	(B) 1F (I)
ENTER/RETURN	(B) 0X00 (I) (I)

WHERE X = PAAA
P = PORT NUMBER 0 - 1
AAA = PRINTER ADDRESS 0 - 6

3828 - IDSA STATION ADDRESS = XY
ENTER THE STATION ADDRESS.
X = CABLE ADDRESS (0 - 3)
Y = STATION ADDRESS (0 - 6)

COMMENT

A 5251 IS ASSIGNED AS THE ALTERNATE CONSOLE IN THE TABLE.

ACTION

THE CABLE ADDRESS AND STATION ADDRESS MUST BE ENTERED IN THE CONFIGURATION TABLE.

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
FXY	1F (I)
ENTER/RETURN	(B) XY00 (I) (I)

X = CABLE ADDRESS 0-3
Y = STATION ADDRESS 0-6

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3829 - PORT/LINE SPEED/TERMINAL ADDRESS = ZYXX
 Z = PORT NUMBER 0 OR 1
 Y = LINE SPEED 0 = 100K, 1 = 250K, 2 = 500K
 XX = TERMINAL ADDRESS

COMMENT

A 4980 DISPLAY HAS BEEN SELECTED AS THE ALTERNATE CONSOLE.

ACTION

A 4980 IS ASSIGNED AS THE CONSOLE IN THE TABLE. THE SUBADDRESS AND LINE SPEED MUST BE ENTERED IN THE CONFIGURATION TABLE.

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
FZYXX	(B) 1F (I)
ENTER/RETURN	(B) ZYXX (I) (I)

Z = PORT ADDRESS 0-1
 Y = LINE SPEED 0=100K
 1=250K
 2=500K
 XX = TERMINAL ADDRESS

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382A - ENHANCED DISPLAY CONSOLE SUPPORT IS AVAILABLE TO PROVIDE PAGE CONTROL FOR THE FOLLOWING DISPLAY TERMINALS
 3101 AND 315X/316X
 THE FOLLOWING KEYS MUST BE USED TO PERFORM THE INDICATED FUNCTIONS.
 PF-1 TURN PAGE CONTROL ON/OFF
 PF-7 ATTENTION
 IS THIS SUPPORT DESIRED?

COMMENT

THIS SUPPORT WILL ALLOW THE 3101/315X OR 316X DISPLAYS TO FUNCTION AS AN ALTERNATE CONSOLE WITH THE SAME OPTIONS AS USED BY THE CUSTOMER. WITH ENHANCED DISPLAY CONSOLE ACTIVE THE PROGRAM WILL READ THE SETUP FROM THE TERMINAL. IN ADDITION PAGING WILL BE SUPPORTED. THE STANDARD ALTERNATE CONSOLE SUPPORT IS STILL AVAILABLE WITH DEFAULT SETUP FOR TERMINAL AS NOTED IN MAP0000.

ACTION

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
X ENTER/RETURN	(B) X (I)(I)
	X = 0 = NO, 1 = YES

382B - RE-IPL AFTER CONFIGURATION TABLE HAS BEEN WRITTEN.

COMMENT

RE-IPL IS NECESSARY TO ESTABLISH STORAGE SIZE AND IF FLOATING POINT IS INSTALLED FOR USE WITH DIAGNOSTICS.

ACTION

WRITE THE CONFIGURATION TABLE TO ALL DISKETTES AND RE-IPL THE BASIC DIAGNOSTIC DISKETTE.

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
NONE REQUIRED	(B) 6 (I) (I) RESUME

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382C - SYSTEM STORAGE SIZE

00 = 16K	08 = 192K	10 = 1792K
01 = 32K	09 = 256K	11 = 2048K
02 = 48K	0A = 384K	12 = 4096K
03 = 64K	0B = 512K	13 = 6144K
04 = 80K	0C = 768K	14 = 8192K
05 = 96K	0D = 1024K	15 = 10240K
06 = 112K	0E = 1280K	16 = 12288K
07 = 128K	0F = 1536K	17 = 14336K

COMMENT

THE SYSTEM STORAGE SIZE MUST BE ENTERED IN THE CONFIGURATION TABLE IN ENTRY 00 BYTES 06 - 07

ACTION

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE
-----	-----
FXX	(B) 1F (I)
ENTER/RETURN	(B) XX00 (I) (I)

XX = THE SELECTION FROM CHART

382D - ADDRESS TRANSLATOR?

COMMENT

THE TABLE NEEDS THIS FOR ENTRY '00'.
THIS MESSAGE FOR 4955 ONLY

ACTION

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE
-----	-----
X	(B) X (I) (I)
ENTER/RETURN	

X = 0 = NO, 1 = YES

382E - INNER STORAGE SIZE? (4955 ONLY)

- 00 = 16K
- 01 = 32K
- 02 = 48K
- 03 = 64K

COMMENT

ACTION

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE
FXX	(B) 1F (I)
ENTER/RETURN	(B) XX00 (I) (I)

XX = 00,01,02,03

382F - IS CUSTOMER USING COMMON I/O?

COMMENT

THE CONFIGURATION PROGRAM FOUND A TWO CHANNEL SWITCH INSTALLED ON THE SYSTEM. IT CANNOT CONTINUE TO CONFIGURE THE SYSTEM IF THE CUSTOMER IS USING THE COMMON I/O.
 A 'YES' ANSWER WILL TERMINATE THE CONFIGURATION PROGRAM.
 A 'NO' ANSWER WILL CONTINUE THE SYSTEM CONFIGURATION.

TWO CHANNEL SWITCH(ES) IS/ARE CABLED TO THIS PROCESSING UNIT.

ACTION

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
X	(B) X (I)(I)
ENTER/RETURN	

X = 0 = NO, 1 = YES

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3830 - REFERENCE THE TWO CHANNEL SWITCH CONSOLE(S).
ENSURE THE MODE SWITCH(S) IS IN MANUAL MODE.
SET THE SELECT SWITCH(S) TO THIS PROCESSOR
PRESS THE RELEASE THE RESET PUSHBUTTON(S).
IS THE ACTION COMPLETE

REFERENCE THE PROGRAMMABLE TWO CHANNEL SWITCH CONSOLE(S).
ENSURE THE MODE SWITCH(ES) IS IN MANUAL MODE.
USING THE REVERSE CONNECT PUSHBUTTON(S),
SET THE CONNECT LIGHT(S) TO THIS PROCESSOR

COMMENT

DO THE ACTIONS ABOVE ON THE TWO CHANNEL SWITCH CONSOLE. IF MORE
THAN ONE TWO CHANNEL SWITCH IS INSTALLED, DO THE ACTIONS ON ALL
THE TWO CHANNEL SWITCH CONSOLE(S).

ACTION

REFERENCE THE TWO CHANNEL SWITCH CONSOLE.
- CHANGE THE SELECT SWITCH TO THIS PROCESSING UNIT
- ENSURE THE MODE SWITCH IS IN MANUAL MODE
- PRESS AND RELEASE THE RESET KEY

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

1
ENTER/RETURN

(B) 1 (I) (I)

1 = ACTION COMPLETE

3831 - IS ALTERNATE CONSOLE BEING USED BY YOU INSTALLED
IN COMMON I/O?

COMMENT

THE CONFIGURATION PROGRAM MUST KNOW WHERE THE ALTERNATE CONSOLE
BEING USED BY YOU AS INPUT IS INSTALLED.

ACTION

SEE IF THE CONSOLE BEING USED BY YOU AS INPUT IS INSTALLED AS
'COMMON I/O'.

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

X
ENTER/RETURN

(B) X (I)(I)

X = 0 = NO, 1 = YES

3832 - IS A PROGRAMMER CONSOLE INSTALLED ON
THE PROCESSOR YOU ARE USING?

COMMENT

THE CONFIGURATION PROGRAM MUST KNOW IF A PROGRAMMER CONSOLE IS
INSTALLED ON THE PROCESSING UNIT YOU ARE USING.

ACTION

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

X
ENTER/RETURN

(B) X (I)(I)

X = 0 = NO, 1 = YES

3833 - GET A PROGRAMMER CONSOLE.

COMMENT

THE CONFIGURATION PROGRAM NEEDS A PROGRAMMER CONSOLE TO CONTINUE. YOU CANNOT CONTINUE UNLESS A PROGRAMMER CONSOLE IS INSTALLED ON THE PROCESSING UNIT YOU ARE USING.

ACTION

THE CONFIGURATION PROGRAM IS TERMINATED.

3834 - IS ALTERNATE CONSOLE BEING USED BY YOU INSTALLED IN FARTHEST COMMON I/O?

COMMENT

THE CONFIGURATION PROGRAM MUST KNOW WHERE THE ALTERNATE CONSOLE BEING USED BY YOU AS INPUT IS INSTALLED. IF THE ALTERNATE CONSOLE IS INSTALLED IN COMMON I/O A PROGRAMMER CONSOLE WILL BE NEEDED TO CONTINUE THE CONFIGURATION.

ACTION

SEE IF THE CONSOLE BEING USED BY YOU AS INPUT IS INSTALLED IN THE FARTHEST 'COMMON I/O'. IF THE ANSWER IS YES, THE NEXT INPUT WILL BE FROM THE PROGRAMMER CONSOLE.

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

X ENTER/RETURN

(B) X (I)(I)

X = 0 = NO, 1 = YES

3835 - REFERENCE THE TWO CHANNEL SWITCH CONSOLE
 FARTHEST FROM PROCESSOR
 CHANGE THE SELECT SWITCH TO THE OTHER PROCESSOR.
 PRESS THE RELEASE THE RESET PUSHBUTTON.
 IS THE ACTION COMPLETE?

REFERENCE THE PROGRAMMABLE TWO CHANNEL SWITCH CONSOLE.
 FARTHEST FROM PROCESSOR
 USING THE REVERSE CONNECT PUSHBUTTON,
 SET THE CONNECT LIGHT TO OTHER PROCESSOR
 IS THE ACTION COMPLETE?

COMMENT

THERE IS MORE THAN ONE (1) TWO CHANNEL SWITCH CONSOLE INSTALLED.
 THE FOLLOWING IS TO BE DONE ON THE TWO CHANNEL SWITCH CONSOLE
 INSTALLED FARTHEST FROM THE PROCESSING UNIT YOU ARE USING.

ACTION

- CHANGE THE SELECT SWITCH TO THE OTHER POSITION
- PRESS AND RELEASE THE RESET KEY
- IF THIS MESSAGE IS FOLLOWED BY HALT CODE 3807 YOUR ANSWER MUST
 BE ENTERED ON THE PROGRAMMER CONSOLE.

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

 1 ENTER/RETURN

 (B) 1 (I) (I)

1 = ACTION COMPLETE

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3836 - REFERENCE THE TWO CHANNEL SWITCH CONSOLE.
NEAREST THE PROCESSOR.
CHANGE THE SELECT SWITCH TO THE OTHER PROCESSOR.
PRESS THE RELEASE THE RESET PUSHBUTTON.
IS THE ACTION COMPLETE?

REFERENCE THE PROGRAMMABLE TWO CHANNEL SWITCH CONSOLE.
USING THE REVERSE CONNECT PUSHBUTTON,
SET THE CONNECT LIGHT TO OTHER PROCESSING UNIT

IS THE ACTION COMPLETE?

COMMENT

IF THERE IS ONLY ONE TWO CHANNEL SWITCH CONSOLE:
COMPLETE THE ACTION ON THE TWO CHANNEL SWITCH CONSOLE.

IF THERE IS MORE THAN ONE TWO CHANNEL SWITCH CONSOLE:
COMPLETE THE ACTION ON THE TWO CHANNEL SWITCH CONSOLE NEAREST TO
THE PROCESSING UNIT YOU ARE USING.

ACTION

- CHANGE THE SELECT SWITCH TO THE OTHER POSITION
- PRESS AND RELEASE THE RESET KEY
- IF THIS MESSAGE IS FOLLOWED BY HALT CODE 3807 YOUR ANSWER MUST
BE ENTERED ON THE PROGRAMMER CONSOLE.

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
1 ENTER/RETURN	(B) 1 (I) (I)
1 = ACTION COMPLETE	

3837 - IS AN OEMI ATTACHMENT INSTALLED?
IS ANOTHER OEMI ATTACHMENT INSTALLED?

COMMENT

OTHER EQUIPMENT MANUFACTURE CARD READ ID IS NOT KNOWN.
IF ONE IS INSTALLED IT WILL BE ADDED TO THE TABLE WITH A ID OF
0000.

ACTION

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
X ENTER/RETURN	(B) X (I)(I)
	X = 0 = NO, 1 = YES

3838 - DEVICE ADDRESS
BASE DEVICE ADDRESS (MULTI ADDRESS ATTACHMENT)

COMMENT

YOU HAVE SELECTED AN OPTION THAT REQUIRES A DEVICE ADDRESS
THE ATTACHMENT MUST BE INSTALLED IN THE SYSTEM FOR AN ADD

ACTION

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
FXX ENTER/RETURN	(B) 1F (I)(B) XX00 (I)(I)
	XX = ENTRY NUMBER

3839 - IS FLOATING POINT INSTALLED?

COMMENT

FLOATING POINT FEATURE IS A SPECIAL CONFIGURATION ENTRY.

ACTION

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
X ENTER/RETURN	(B) X (I)(I)
	X = 0 = NO, 1 = YES

383A - MAGNETIC TAPE ----- DA=XX DT=58 RID=3X86

TAPE DRIVE TYPE

- 00 = NRZI
- 01 = DUAL
- FF = PE

COMMENT

LEVEL 3:

- R3 = AATT = AA = DEVICE ADDRESS, TT = DEVICE TYPE.
- R4 = IDID = THE RESULT OF A READ ID TO THE ADDRESS.

ACTION

ANSWER THE QUESTION FOR DEVICE ADDRESS (R3)

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
FXX ENTER/RETURN	(B) 1F (I)(B) XX00 (I)(I)
XX =	TYPE TAPE DRIVE

383B - DISK ----- DA = XX DT = 7A RID = 3X06
 DISK ENCLOSURE ID FROM DRIVE LABEL = XXXXXXX

COMMENT

THE ENCLOSURE ID IS USED WITH THE SAVE/RESTORE PROGRAMS.

LEVEL 3:

R3 = AATT = AA = DEVICE ADDRESS, TT = DEVICE TYPE.

R4 = IDID = THE RESULT OF A READ ID TO THE ADDRESS.

ACTION

ANSWER THE QUESTION FOR DEVICE ADDRESS (R3)

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
FXXX XXX0 ENTER/RETURN	(B) 2F (I)(B) XXXX
	(I)(B) XXX0 (I)(I)
XXXXXXXX0 =	ENCLOSURE ID

383C - SERIES 1 - PERSONAL COMPUTER DA = XX DT = D9 RID = 321E

COMMENT

THERE ARE 2 MESSAGES ASSOCIATED WITH THIS HALT.

LEVEL 3:

R3 = AATT = AA = DEVICE ADDRESS, TT = DEVICE TYPE.

R4 = IDID = THE RESULT OF A READ ID TO THE ADDRESS.

R5 = 000X = THE MESSAGE

ACTION

ANSWER THE QUESTION FOR MESSAGE NUMBER (R5), DEVICE ADDRESS (R3)

R5 = 01 = IS THE DEVICE ATTACHED A '5160' WITH AT LEAST
 ONE TERMINAL COMMUNICATION ADAPTOR INSTALLED?

R5 = 02 = NUMBER OF TCA'S IN THE '5160'

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
X ENTER/RETURN	(B) X (I)(I)
	X = 0 = NO, 1 = YES
	OR
FXX ENTER/RETURN	(B) 1F (I)(B) XX00 (I)(I)
	XX = NUMBER OF RPQ'S

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383E - 5.25 INCH DISK/DISKETTE---DA = XX DT = 70 RID = 2X02

COMMENT

THERE ARE 2 MESSAGES ASSOCIATED WITH THIS HALT.

LEVEL 3:

R3 = AATT = AA = DEVICE ADDRESS, TT = DEVICE TYPE.

R4 = IDID = THE RESULT OF A READ ID TO THE ADDRESS.

R5 = 000X = THE MESSAGE OR QUESTION NUMBER.

ACTION

ANSWER THE QUESTION FOR MESSAGE NUMBER (R5), DEVICE ADDRESS (R3)

R5 = 01 = PHYSICAL DRIVES PRESENT

00 - ONE DISKETTE/ONE DISK

01 - ONE DISKETTE/TWO DISK

02 - ONE DISKETTE/THREE DISK

03 - TWO DISKETTE/ONE DISK

04 - TWO DISKETTE/TWO DISK

05 - ONE DISK

06 - TWO DISKS

07 - THREE DISKS

R5 = 02 = DISK SIZE

00 - 40 MB

00 - 72 MB

R5 = 02 = IPL SELECTION

00 - NOT IPL DEVICE

01 - PRIMARY IPL DEVICE

02 - ALTERNATE IPL DEVICE

FXX ENTER/RETURN

(B) 1F (I)(B) XX00 (I)(I)

XX = SELECTION

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MAP 3880-42

383F - DISK -----DA = XX DT = 7B RID = 3X16

- SELECT MODEL OF 4967 ATTACHED

00 - MIDELS 2CA/2CB

01 - MODELS 3CA/3CB

COMMENT

R3 = AATT = AA = DEVICE ADDRESS, TT = DEVICE TYPE.

R4 = IDID = THE RESULT OF A READ ID TO THE ADDRESS.

ACTION

ANSWER THE QUESTION FOR DEVICE ADDRESS (R3)

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

FXX ENTER/RETURN

(B) 1F (I)(B) XX00 (I)(I)

XX = NUMBER OF RPQ'S

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3840 - MFA -----DA = XX DT = E6 RID = 3X36

COMMENT

THERE ARE 5 MESSAGES ASSOCIATED WITH THIS HALT.

LEVEL 3:

- R3 = AATT = AA = DEVICE ADDRESS, TT = DEVICE TYPE.
- R4 = IDID = THE RESULT OF A READ ID TO THE ADDRESS.
- R5 = 000X = THE MESSAGE OR QUESTION NUMBER.

ACTION

ANSWER THE QUESTION FOR MESSAGE NUMBER (R5), DEVICE ADDRESS (R3)

- R5 = 01 = BIAS JUMPERED? 00=SPACE, 01=MARK
- R5 = 02 = MULTIPOINT TRIBUTARY JUMPERED? 0=NO, 1=YES
- R5 = 03 = JUMPER S0 INSTALLED? 0=NO, 1=YES
- R5 = 04 = JUMPER S1 INSTALLED? 0=NO, 1=YES
- R5 = 05 = JUMPER S2 INSTALLED? 0=NO, 1=YES

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

X ENTER/RETURN
ENTER/RETURN

(B) X (I)(I)

X = 0 = NO, 1 = YES
OR

FZZ ENTER/RETURN

(B) 1F (I)(B) ZZ00 (I)(I)

ZZ = 00 SPACE, 01 MARK

3843 - ACCA SL SPECIFY CODE FOR DA=XX DT=E8 RID=100E

LOW SPEED JUMPER ON						MEDIUM SPEED JUMPER ON											
D R D						D R D											
SPECIFY	T	T	C	H	F	D	L	S	SPECIFY	T	T	C	H	F	D	L	S
CODE	R	S	D	D	D	C	L	N	CODE	R	S	D	D	D	C	L	N
8100	X			Y	Y				8110	X			Y	Y			
8101	X	X		Y	Y				8111	X	X		Y	Y			
8102				Y			Y		8112				Y			Y	
8103		X		Y			Y		8113		X		Y			Y	
8104			X	Y			Y		8114			X	Y			Y	
8105		X	X	Y			Y		8115		X	X	Y			Y	
8106	X			Y		Y			8116	X			Y		Y		
8107	X	X		Y	Y				8117	X	X		Y	Y			
8108	X		X	Y		Y			8118	X		X	Y		Y		
8109	X	X	X	Y	Y				8119	X	X	X	Y	Y			

X = JUMPER INSTALLED
 DTR = DATA TERMINAL READY
 RTS = REQUEST TO SEND
 DCD = DATA CARRIER DETECT
 SN = SWITCHED NETWORK

Y = LINE DISCRPTION
 HD = HALF DUPLEX
 FD = FULL DUPLEX
 DC = DIRECT CONNECT
 LL = LEASED LINE

COMMENT

LEVEL 3:
 R3 = AATT = DEVICE ADDRESS AND DEVICE TYPE.
 R4 = IDID = THE RESULT OF A READ ID TO THE ADDRESS.

ACTION

ANSWER THE QUESTION FOR DEVICE ADDRESS (R3)

ENTER ON ALTERNATE CONSOLE: ENTER ON PROGRAMMER CONSOLE:

 FXXXX ENTER/RETURN (B) 1F (I) (B) XXXX (I) (I)
 XXXX = SPECIFY CODE

3845 - FPMLC ----- DA=XX DT=EA RID=2X16

SPECIFY

CODE	SP	INT	DTR	RTS	DCD	CL	DC	LL	SN
80Z0	HS	EIA	X	X	X				Y
80Z1	HS	EIA	X		X		Y	Y	
80Z2	LS	EIA	X	X	X			Y	
80Z3	LS	EIA	X		X		Y	Y	
80Z4	HS	EIA			X				Y
80Z5	LS	EIA			X				Y
80Z6	HS	TTY	X	X	X	Y			
80Z7	LS	TTY	X	X	X	Y			
80Z8	HS	EIA	X	X				Y	
80Z9	HS	EIA		X	X				Y

X = JUMPER INSTALLED Y = LINE DISCRIPTION
 Z = CONTROLLER NUMBER (1-6)

SP = HS = HIGH SPEED	CL = CURRENT LOOP
LS = LOW SPEED	DC = DIRECT CONNECT
INT = EIA = MODEM	LL = LEASED LINE
TTY = TELETYPE	
DTR = DATA TERMINAL READY	SN = SWITCH NETWORK
RTS = REQUEST TO SEND	DCD = DATA CARRIER DETECE

COMMENT

THERE ARE 3 MESSAGES ASSOCIATED WITH THIS HALT.
 LEVEL 3:
 R3 = AATT = AA = DEVICE ADDRESS, TT = DEVICE TYPE.
 R4 = IDID = THE RESULT OF A READ ID TO THE ADDRESS.
 R5 = MESSAGE NUMBER

ACTION

ANSWER THE QUESTION FOR MESSAGE NUMBER (R5), DEVICE ADDRESS (R3)
 R5 = 01 = IS A LINE INSTALLED AT THIS ADDRESS? 0=NO, 1=YES
 R5 = 02 = SPECIFY CODE XXXX
 R5 = 03 = CLOCKS DURING WRAP? 0=NO, 1=YES

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

 FXXXX
 ENTER/RETURN

 (B) 1F (I) (B) XXXX (I) (I)

XXXX = SPECIFY CODE

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3846 - BSCA SL

DA = XX DT = F0 RID 1006

SPECIFY	M	A	T	D	R	C	N	M	H	F	I	L	S
CODE	P	7	R	S	K	I	P	D	D	P	L	N	
8120	X		X		X			Y	Y				
8121	X		X		X	X		Y	Y				
8122		X				X		Y				Y	
8123		X						Y	Y			Y	
8124		X			X	X		Y				Y	
8125		X			X			Y	Y			Y	
8126			X		X			Y				Y	
8127			X	X	X			Y				Y	
8128			X		X	X		Y				Y	
8129			X	X	X	X		Y				Y	

SPECIFY	M	T	T	3D	E0	H	F	L
CODE	P	R	S	5N	3	D	D	L
8161	X		XY			Y		Y
8162	X	X	XY				Y	Y
8163	X	X	XY					
8164	X				XY	Y		Y
8165	X	X			XY		Y	Y
8166	X	X			XY			

X = JUMPER INSTALLED
 MP = MULTIPOINT TRIBUTARY
 TA7 = MP TERMINAL ADDR BIT 7
 DTR = DATA TERMINAL READY
 RTS = REQUEST TO SEND
 CLK = INTERNAL CLOCK
 NRI = NO RING INDICATE

Y = LINE DISCRPTION
 MP = MULYIPOINT
 HD = HALF DUPLEX
 FD = FULL DUPLEX
 RIP = RING INDICATE PROVIDED
 LL = LEASED LINE
 SN = SWITCHED NETWORK
 V35/DDN = MODEM TYPE
 WE303 = MODEM TYPE

COMMENT

THERE ARE 2 MESSAGES ASSOCIATED WITH THIS HALT.

LEVEL 3:

R3 = AATT = AA = DEVICE ADDRESS, TT = DEVICE TYPE.
 R4 = IDID = THE RESULT OF A READ ID TO THE ADDRESS.
 R5 = MESSAGE NUMBER

ACTION

ANSWER THE QUESTION FOR MESSAGE NUMBER (R5), DEVICE ADDRESS (R3)

R5 = 01 = SPECIFY CODE XXXX

R5 = 02 = REMOTE IPL ENABLED?

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

 FXXXX ENTER/RETURN

 (B) IF (I) (B) XXXX (I) (I)

XXXX = SPECIFY CODE

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3848 - SDLC SPECIFY CODE FOR DA = XX DT = F8 RID = 1016

SPECIFY CODE	SDLC FEATURE CODE 2090 JUMPERS						LINE					
	DTR	RTS	ICLK	NRI	IC	HD	FD	RIP	LL	SN		
8130				X		Y				Y		
8131						Y		Y		Y		
8132			X	X	Y	Y				Y		
8133			X		Y	Y		Y		Y		
8134	X			X		Y			Y			
8135	X	X		X			Y		Y			
8136	X		X	X	Y	Y			Y			
8137	X	X	X	X	Y		Y		Y			

NO RI = NO RING INDICATE	RIP = RING INDICATE PROVIDED
ICLK = INTERNAL CLOCK	IC = INTERNAL CLOCK
DTR = DATA TERMINAL READY	LL = LEASED LINE
RTS = REQUEST TO SEND	HD = HALF DUPLEX
SN = SWITCHED NETWORK	FD = FULL DUPLEX

COMMENT

ANSWER TONE AND MODEM DELAY JUMPERS ARE NOT COVERED BY THE SPECIFY CODE. THESE JUMPERS WILL BE SENSED BY THE PROGRAM.

LEVEL 3:

R3 = AATT = DEVICE ADDRESS AND DEVICE TYPE.

R4 = IDID = THE RESULT OF A READ ID TO THE ADDRESS.

ACTION

ANSWER THE QUESTION FOR THE DEVICE ADDRESS (R3).

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

FXXXX ENTER/RETURN

(B) 1F (I) (B) XXXX (I) (I)

XXXX = SPECIFY CODE

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384D - IS EIA FULL DUPLEX ATTACHMENT AN RPQ 8D0079 CARD?

COMMENT

THIS RPQ REQUIRES SPECIAL CONFIGURATION ENTRIES.

ACTION

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

X ENTER/RETURN

(B) X (I) (I)

X= 0 NO, 1 YES

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MAP 3880-52

3850 - X.25 MCL ----- DA = XX DT = FD RID = 26CF

COMMENT

THERE ARE 8 MESSAGES ASSOCIATED WITH THIS HALT CODE.
LEVEL 3:
R3 = AATT = AA = DEVICE ADDRESS, TT = DEVICE TYPE.
R4 = IDID = THE RESULT OF A READ ID TO THE ADDRESS.
R5 = MESSAGE NUMBER.

ACTION

ANSWER THE QUESTION FOR MESSAGE NUMBER (R5), DEVICE ADDRESS (R3)
R5 = 0X = IS LINE CARD X INSTALLED? 0 = NO 1 = YES
X = LINE CARD NUMBER

ENTER ON ALTERNATE CONSOLE: ENTER ON PROGRAMMER CONSOLE:

X ENTER/RETURN (B) X (I) (I)
X= 0 NO, 1 YES

3854 - THE FOLLOWING ATTACHMENTS REQUIRE TERMINAL DATA
DO YOU HAVE THIS DATA AVAILABLE?

COMMENT

THE LISTED ATTACHMENTS REQUIRE DATA TO DESCRIBE THE TERMINAL.
IF NO, THIS DATA WILL HAVE TO BE ENTERED AT A LATER TIME

ACTION

IF DATA IS AVAILABLE ANSWER YES AND COMPLETE THE CONFIGURATION.
IF DATA IS NOT AVAILABLE ANSWER NO AND THE CONFIGURATION TABLE
WILL BE WRITTEN ON DISKETTE.

ENTER ON ALTEPNATE CONSOLE: ENTER ON PROGRAMMER CONSOLE:

X (B) X (I) (I)
X= 0 NO, 1 YES

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3855 - 5200 PRINTER ----- DA = XX DT = 6A RID = 2X2E
 COMMENT

THERE ARE 3 MESSAGES ASSOCIATE WITH THIS HALT CODE.
 THE DEVICES LISTED REQUIRE SPECIAL CONFIGURATION INFORMATION TO
 DESCRIBE THE TERMINAL CONNECTED TO THE ATTACHMENT.

LEVEL 3:

R3 = AATT = AA = DEVICE ADDRESS, TT = DEVICE TYPE.
 R4 = IDID = THE RESULT OF A READ ID TO THE ADDRESS.
 R5 = MESSAGE NUMBER.

ACTION

ANSWER THE QUESTION FOR MESSAGE NUMBER (R5), DEVICE ADDRESS (R3)
 R5 = 01 = TYPE OF PRINTER ATTACHED?

00 = 5262	04 = 5224 MOD 4
01 = 5225 MOD 1	05 = 5224 MOD 1
02 = 5225 MOD 2	06 = 5224 MOD 2
03 = 5225 MOD 3	07 = 5219

R5 = 02 = PORT NUMBER
 00 = PORT 0
 01 = PORT 1

R5 = 03 = PRINTER ADDRESS '00 - 06'

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

 FXX ENTER/RETURN

 (B) 1F (I)(B) XX00 (I)(I)

XX= SELECTION

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3856 - 5250 WORK STATION ----- DA = XX DT = E4 RID = 0416

COMMENT

THERE ARE 3 MESSAGES ASSOCIATE WITH THIS HALT CODE.
THE DEVICES LISTED REQUIRE SPECIAL CONFIGURATION INFORMATION TO
DESCRIBE THE TERMINAL CONNECTED TO THE ATTACHMENT.

LEVEL 3:

R3 = AATT = AA = DEVICE ADDRESS, TT = DEVICE TYPE.
R4 = IDID = THE RESULT OF A READ ID TO THE ADDRESS.
R5 = MESSAGE NUMBER
R6 = STATION NUMBER

ACTION

ANSWER THE QUESTION FOR MESSAGE NUMBER (R5), DEVICE ADDRESS (R3)

R5 = 01 = HOW MANY STATION ARE ATTACHED '00 - 08'

MESSAGE NUMBER (R5) AND STATION NUMBER (R6).

R5 = 02 = STATION TYPE
00 = PRINTER
01 = DESPLAY

R5 = 03 = PORT NUMBER
00 = PORT 0 02 = PORT 2
01 = PORT 1 03 = PORT 3

R5 = 04 = STATION ADDRESS '00 - 06'

MESSAGES 2,3 AND 4 ARE REPEATED FOR EACH STATION.

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

FXX ENTER/RETURN

(B) 1F (I)(B) XX00 (I)(I)

XX= SELECTION

3857 - MULTI FUNCTION ATTACH

DA = XX DT = E6 RID = 3X36

COMMENT

THERE ARE 6 MESSAGES ASSOCIATE WITH THIS HALT CODE.
 THE DEVICES LISTED REQUIRE SPECIAL CONFIGURATION INFORMATION TO
 DESCRIBE THE TERMINAL CONNECTED TO THE ATTACHMENT.
 THE MAP PROLOG(S) PARAGRAPH 5.1.

LEVEL 3:

R3 = AATT = AA = DEVICE ADDRESS, TT = DEVICE TYPE.
 R4 = IDID = THE RESULT OF A READ ID TO THE ADDRESS.
 R5 = MESSAGE NUMBER

ACTION

ANSWER THE QUESTION FOR MESSAGE NUMBER (R5), DEVICE ADDRESS (R3)

R5 = 01 = TYPE OF DEVICE
 00 = BISYNC (BASE ADDRESS ONLY)
 01 = 3101/7485
 02 = 4975 MOD 01L
 03 = 4975 MOD 02L
 04 = 4224 PRINTER
 05 = PROPRINTER
 06 = NOT USED

R5 = 02 = TYPE OF INTERFACE
 00 = RS-232C
 01 = RS-422A

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

 FXX ENTER/RETURN

 (B) 1F (I)(B) XX00 (I)(I)

XX= SELECTION

CONTINUED

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MAP 3880-56

BASE ADDRESS BISYN RS-232C INTERFACE

R5 = 03 = LIST ALL OF THE FOLLOWING FUNCTIONS THAT APPLY

- 01 - EXTERNAL CLOCK
- 02 - DATA TERMINAL READY
- 03 - REQUEST TO SEND (RTS)
- 04 - LEASED LINE
- 05 - SWITCHED LINE
- 06 - MULTIPOINT TRIBUTARY
- 07 - DISABLE REMOTE IPL
- 08 - ANSWERTONE SUPPLIED

BASE ADDRESS 31XX/7485 TERMINAL ON RS-232C INTERFACE

- 01 - DATA RATE SELECT (DRS)
- 02 - DATA TERMINAL READY
- 03 - REQUEST TO SEND (RTS)
- 04 - LEASED LINE
- 05 - SWITCHED LINE

BASE ADDRESS 4975 PRINTER MOD 1/2 RS-232C INTERFACE

- 01 - EXTERNAL CLOCK
- 02 - DATA TERMINAL READY
- 03 - REQUEST TO SEND (RTS)
- 04 - LEASED LINE
- 05 - 1200 BPS 4975 INTERNAL CLOCK
- 06 - 2400 BPS 4975 INTERNAL CLOCK
- 07 - 4800 BPS 4975 INTERNAL CLOCK
- 08 - 4975 DIRECT CONNECT

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

FXXXXXX

(B) ZF (I)(B) XXXX (I)

ENTER/RETURN

(B) XX00 (I)(I)

XX= SELECTION

Z = NUMBER OF WORDS

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3858 - 1250 WORK STATION ----- DA = XX DT = F9 RID = 2X3E

COMMENT

THERE ARE 4 MESSAGES ASSOCIATE WITH THIS HALT CODE.
THE DEVICES LISTED REQUIRE SPECIAL CONFIGURATION INFORMATION TO
DESCRIBE THE TERMINAL CONNECTED TO THE ATTACHMENT.

LEVEL 3:

R3 = AATT = AA = DEVICE ADDRESS, TT = DEVICE TYPE.
R4 = IDID = THE RESULT OF A READ ID TO THE ADDRESS.
R5 = MESSAGE NUMBER

ACTION

ANSWER THE QUESTION FOR MESSAGE NUMBER (R5), DEVICE ADDRESS (R3)

R5 = 01 = TYPE OF STATION
00 = 4980

R5 = 02 = PORT NUMBER
00 = PORT 0
01 = PORT 1

R5 = 03 = STATION (LINK) ADDRESS (01 - 0E)'

R5 = 04 = PORT SPEED
00 = 100K
01 = 250
02 = 500

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

FXX ENTER/RETURN

(B) 1F (I)(B) XX00 (I)(I)

XX= SELECTION

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3859 - MULTI-COMMUNICATION CONTROLLER-- DA = XX DT = E3 RID = 5202

COMMENT

THERE ARE 2 MESSAGES ASSOCIATE WITH THIS HALT CODE.
THE DEVICES LISTED REQUIRE SPECIAL CONFIGURATION INFORMATION TO
DESCRIBE THE TERMINAL CONNECTED TO THE ATTACHMENT.
LEVEL 3:
R3 = AATT = AA = DEVICE ADDRESS, TT = DEVICE TYPE.
R4 = IDID = THE RESULT OF A READ ID TO THE ADDRESS.
R5 = MESSAGE NUMBER

ACTION

ANSWER THE QUESTION FOR MESSAGE NUMBER (R5), DEVICE ADDRESS (R3)

R5 = 01 = IS A PRINTER ATTACHED
R5 = 02 = IS A DISPLAY ATTACHED

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

X ENTER/RETURN

(B) X (I)(I)

X = 0 = NO, 1 = YES

3860 - WRITE CONFIGURATION TABLE TO OTHER DISKETTE?

COMMENT

THE PROGRAM WANTS TO KNOW IF YOU WANT TO WRITE THE BASIC DISKETTE CONFIGURATION TABLE TO ANOTHER DISKETTE, OR TERMINATE THE CONFIGURATION PROGRAM.

THE CONFIGURATION TABLE IS WRITTEN ON THE DISKETTE AND IS IN STORAGE STARTING AT LOCATION X3000.

SEE IF ALL DEVICE DATA IS ENTERED IN THE TABLE.

SEE THE CONFIGURATION TABLE ENTRY DESCRIPTIONS IN: THE MAP PROLOG(S) PARAGRAPH 5.1.

ACTION

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
X ENTER/RETURN	(B) X (I)(I)
	X = 0 = NO, 1 = YES

3861 - SHOULD CHANGES BE WRITTEN TO DISKETTE

COMMENT

CHANGES WERE MADE TO THE CONFIGURATION TABLE AND YOU INSTRUCTED THE PROGRAM TO TERMINATE.

ACTION

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
X ENTER/RETURN	(B) X (I)
	X = 0 = NO, 1 = YES

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MAP 3880-60

3862 - OPTION MENU

NOTE - THIS PROGRAM HAS BEEN CHANGED AND NEW FEATURES ADDED. ALL YES/NO QUESTIONS MUST BE ANSWERED WITH DCP COMMANDS FOR YES '1' AND NO '0'.

REFER TO THE NEW MAP '3880' FOR AN EXPLANATION OF ALL MESSAGE CODES AND MESSAGE TEXT.

THIS MESSAGE APPEARS ONLY ONCE AFTER PROGRAM IS LOADED

00 = LIST TABLE-OTHER DISKETTE	0A = ADD FEATURE/ENTRY
01 = LIST TABLE	0B = MENU CONTROL
02 = DELETE FEATURE/ENTRY	0C = CONFIGURE SYSTEM
03 = CHANGE ENTRY	0D = WRITE TABLE ON BASIC
04 = CHANGE ALTERNATE CONSOLE	0E = ADD OEM
05 = TERMINATE	0F = ADD FLOATING POINT
06 = CHANGE PROCESSING UNIT	10 = ADD TERMINAL DATA
07 = CHANGE STORAGE SIZE	11 = COMBINE
08 = SET PTCS OR TCS BITS	
09 = LIST SYSTEM EQUIPMENT	

COMMENT

THE CONFIGURATION TABLE IS IN STORAGE STARTING AT LOCATION X3000

OPTIONS 01 AND 09 NOT USED WHEN USING THE PROGRAMMER CONSOLE AS THE OUTPUT DEVICE.

OPTIONS 03 AND 10 USED WITH ONE ADDRESS AT A TIME.

ACTION

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

FXX ENTER/RETURN

(B) 1F (I)(B) XX00 (I)(I)

XX = OPTION

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3863 - LIST CONFIGURATION TABLE

ENTRY ----- CONFIGURATION DATA ----- DEVICE NAME

COMMENT

FOLLOWED BY FEATURES/DEVICES IN THE CONFIGURATION TABLE ON THE DISKETTE THAT IS LOADED IN THE LOAD DEVICE. THIS MESSAGE ALSO USED FOR OTHER DISKETTE CONFIGURATION.

ACTION

THE CONFIGURATION TABLE FROM THE DISKETTE IN THE LOAD DEVICE CAN BE DISPLAYED USING THE PROGRAMMER CONSOLE STARTING AT STORAGE ADDRESS HEX 3000.

ENTER ON ALTERNATE CONSOLE: ENTER ON PROGRAMMER CONSOLE:

X ENTER/RETURN (B) X (I)(I)
 X = 6 TO CONTINUE

3864 - LIST SYSTEM EQUIPMENT

495X

DA DT RID DEVICE NAME

COMMENT

FOLLOWED BY ALL FEATURES/DEVICES THAT ANSWER TO A READ ID COMMAND.

ACTION

ENTER ON ALTERNATE CONSOLE: ENTER ON PROGRAMMER CONSOLE:

NONE REQUIRED THIS LIST CANNOT BE DISPLAYED

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3865 - COMBINE CONFIGURATION TABLES

COMMENT

WILL COMBINE THE CONFIGURATION TABLES FROM TWO DISKETTE AND SAVE IT IN STORAGE.

ACTION

CHECK THE COMBINED CONFIGURATION TABLE AND WRITE IT TO DISKETTE IF CORRECT.

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

NONE REQUIRED

(B) 6 (I) (I)RESUME

3866 - IS 'FROM' DISKETTE LOADED?

COMMENT

USED WITH THE COMBINE FUNCTION (10).
A CONFIGURATION TABLE FROM A DISKETTE IS COMBINED WITH THE CONFIGURATION TABLE ON A BASIC DISKETTE.

USED WITH THE LIST TABLE-OTHER DISKETTE FUNCTION (00).
PRINTS THE CONFIGURATION TABLE THAT IS ON ANY DIAGNOSTIC DISKETTE.

ACTION

INSERT THE 'FROM' DISKETTE IN THE DISKETTE UNIT.
ANSWER '1' WHEN ACTION IS COMPLETE.

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

X ENTER/RETURN

(B) X (I)(I)

X = 0 = NO, 1 = YES

3891 - CHANGE/DISPLAY ENTRY

XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX

COMMENT

YOU HAVE ELECTED TO CHANGE/DISPLAY A CONFIGURATION ENTRY PROGRAMMER CONSOLE OPERATION, LEVEL 3 R2 IS THE ADDRESS OF THE ENTRY IN STORAGE. DISPLAY '8' STORAGE WORD STARTING AT THE ADDRESS IN R2.

ACTION

IF NO CHANGE IS REQUIRED:

ENTER ON ALTERNATE CONSOLE:

F ENTER/RETURN

ENTER ON THE CONSOLE:

(B) OF (I)(I)

TO CHANGE THE ENTRY ENTER THE CORRECT DATA

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

F XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX (B) 8F (I) 8 WORD ENTRY
(B) XXXX (I) WORD 0
(B) XXXX (I) WORD 1
(B) XXXX (I) WORD 2
(B) XXXX (I) WORD 3
(B) XXXX (I) WORD 4
(B) XXXX (I) WORD 5
(B) XXXX (I) WORD 6
(B) XXXX (I)(I) WORD 7

IT IS ONLY NECESSARY TO ENTER DATA UP TO THE CHANGE. THE UNENTERED DATA WILL REMAIN THE SAME. IF USING THE PROGRAMMER CONSOLE ADJUST THE WORD COUNT FOR THE AMOUNT OF WORDS TO BE CHANGED.

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3892 - CHANGE PROCESSING UNIT

COMMENT

PROCESSING UNIT TYPE. 0X = PROCESSING UNIT TYPE.
 02 = 4952 PROCESSING UNIT.
 03 = 4953 PROCESSING UNIT.
 04 = 4954 PROCESSING UNIT.
 05 = 4955 PROCESSING UNIT.
 06 = 4956 PROCESSING UNIT.

ACTION

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
F0X ENTER/RETURN	(B) 1F (I)(B) 0X00 (I)(I)
0X = 495X PROCESSING UNIT	

3893 - SELECT TYPE OF ADD
 00 - ENTIRE FEATURE
 01 - ONE ENTRY

COMMENT

OPTION 00 SHOULD BE USED TO CONFIGURE ANY DEVICE AUTOMATICALLY
 OPTION 01 WILL REQUIRE THE CSR TO ENTER ALL 8 WORDS MANUALLY.

ACTION

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
FXX ENTER/RETURN	(B) 1F (I)(B) XX00 (I)(I)
XX = OPTION	

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3894 - ADD ONE ENTRY

DADT XXXX XXXX XXXX XXXX XXXX XXXX DRID

COMMENT

YOU WANT TO ADD AN ENTRY. ENTER THE NEW ENTRY AS FOLLOWS:

AATT 0203 0405 0607 0809 0A0B 0C0D IDID

AA = DEVICE ADDRESS, TT = DEVICE TYPE, IDID = DEVICE TYPE

ACTION

- ENTER THE FULL ENTRY YOU WANT TO ADD TO THE TABLE.

'(ALL EIGHT WORDS)'

- ENTER THE NEW ENTRY AS FOLLOWS:

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

F XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX

(B) 8F (I) 8 WORDS ENTRY

(B) XXXX (I) WORD 0

(B) XXXX (I) WORD 1

(B) XXXX (I) WORD 2

(B) XXXX (I) WORD 3

(B) XXXX (I) WORD 4

(B) XXXX (I) WORD 5

(B) XXXX (I) WORD 6

(B) XXXX (I)(I) WORD 7

3895 - IS THIS ENTRY TO BE CHANGED?

COMMENT

THIS MESSAGE WILL APPEAR FOR THE FIRST DUPLICATE ENTRY ON A CHANGE OPTION.

ACTION

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

X ENTER/RETURN

(B) X (I)(I)

X = 0 = NO, 1 = YES

38C0 - ERROR - ENTRY NOT VALID

COMMENT

THE LAST ENTRY MADE IS NOT VALID FOR THE MESSAGE.

ACTION

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

NONE REQUIRED

(B) 6 (I) (I) RESUME

38C1 - ERROR - NO DEVICE.

COMMENT

THE PROGRAM DID NOT FIND THE DEVICE ENTERED BY YOU.

THE PROGRAM DID NOT FIND THE ALTERNATE CONSOLE TYPE OR ALTERNATE
CONSOLE DEVICE ADDRESS ENTERED BY YOU.

THIS IS A WARNING MESSAGE.

ACTION

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

NONE REQUIRED

(B) 6 (I) (I) RESUME

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38C2 - ERROR - MORE THAN ONE TWO CHANNEL SWITCH DISAPPEARED.

COMMENT

THE CONFIGURATION PROGRAM FOUND TWO (2) TWO CHANNEL SWITCHES INSTALLED ON THE SYSTEM. AS THE SYSTEM WAS CONFIGURED, AFTER A SELECT SWITCH WAS CHANGED, TWO (2) TWO CHANNEL SWITCHES DISAPPEARED. THE PROGRAM DID NOT EXPECT THIS.

ACTION

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
NONE REQUIRED	(B) 6 (I) (I)RESUME

THE CONFIGURATION PROGRAM WILL TERMINATE.
THE SWITCH(ES) WERE NOT SWITCHED CORRECTLY.
IF THE SWITCHING WAS FOLLOWED CORRECTLY, THE TWO CHANNEL SWITCH CARD(S) IS/ARE NOT JUMPERED CORRECTLY, OR IS/ARE BAD.

38C3 - ERROR - A TWO CHANNEL SWITCH DID NOT DISAPPEAR.

COMMENT

THE CONFIGURATION PROGRAM FOUND TWO (2) TWO CHANNEL SWITCHES INSTALLED ON THE SYSTEM. AS THE SYSTEM WAS CONFIGURED, AFTER A SELECT SWITCH WAS CHANGED, A TWO CHANNEL SWITCH DID NOT DISAPPEAR. THE PROGRAM DID NOT EXPECT THIS.

ENSURE THE SWITCHING IS FOLLOWED CORRECTLY.
IF THE SWITCHING WAS FOLLOWED CORRECTLY:
A TWO CHANNEL SWITCH CARD IS NOT JUMPERED CORRECTLY.
A TWO CHANNEL SWITCH CARD IS BAD.
A SWITCH ON THE CONSOLE YOU ARE USING IS BAD.

ACTION

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
NONE REQUIRED	(B) 6 (I) (I)RESUME

THE CONFIGURATION PROGRAM WILL TERMINATE.

38C4 - ERROR - CAN'T FIND ONE OF THE TWO CHANNEL SWITCHES

COMMENT

THE CONFIGURATION PROGRAM FOUND TWO (2) TWO CHANNEL SWITCHES INSTALLED. AS THE SYSTEM WAS CONFIGURED AND A SELECT SWITCH WAS CHANGED, A TWO CHANNEL SWITCH DISAPPEARED. THE PROGRAM DID NOT EXPECT THIS.

ENSURE THE SWITCHING IS FOLLOWED CORRECTLY.
 IF THE SWITCHING WAS FOLLOWED CORRECTLY:
 A TWO CHANNEL SWITCH CARD IS BAD OR NOT JUMPERED CORRECTLY.
 A SWITCH ON THE CONSOLE YOU ARE USING IS BAD.

ACTION

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
NONE REQUIRED	(B) 6 (I) (I) RESUME

THE CONFIGURATION PROGRAM WILL TERMINATE.

38C5 - ERROR - TWO CHANNEL SWITCH WAS IN WRONG POSITION.

COMMENT:

THE CONFIGURATION PROGRAM FOUND A TWO CHANNEL SWITCH INSTALLED ON THE SYSTEM. AS THE SYSTEM WAS CONFIGURED, AFTER A SELECT SWITCH WAS CHANGED, A TWO CHANNEL SWITCH POSITION DID NOT CHANGE. THE PROGRAM DID NOT EXPECT THIS.
 ENSURE THE SWITCHING IS FOLLOWED CORRECTLY.

ACTION

THE SWITCH(ES) WERE NOT SWITCHED CORRECTLY.
 IF THE SWITCHING WAS FOLLOWED CORRECTLY, THE TWO CHANNEL SWITCH CARD IS NOT JUMPERED CORRECTLY, OR IS BAD.

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
NONE REQUIRED	(B) 6 (I) (I) RESUME

THE CONFIGURATION PROGRAM WILL TERMINATE.

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38C6 - ERROR - ALTERNATE CONSOLE DISAPPEARED

COMMENT

YOU INSTRUCTED THE CONFIGURATION PROGRAM THAT THE ALTERNATE CONSOLE BEING USED BY YOU WAS INSTALLED AS PRIVATE I/O. THE ALTERNATE CONSOLE DISAPPEARED AFTER THE TWO CHANNEL SWITCH WAS CHANGED TO THE OTHER PROCESSOR. THIS WILL NOT OCCURE IF TE ALTERNATE CONSOLE IS INSTALLED IN THE PRIVATE I/O OF THE SYSTEM.

ACTION

IPL AND START THE PROGRAM AGAIN.
CHECK WHERE ALTERNATE CONSOLE ATTACHMENT IS INSTALLED.
ANSWER THE QUESTIONS CORRECTLY.

ENTER ON PROGRAMMER CONSOLE:

(B) 6 (I) (I) RESUME

THE CONFIGURATION PROGRAM WILL TERMINATE.

38C7 - ERROR - ALTERNATE CONSOLE DID NOT REAPPEAR

COMMENT

YOU INSTRUCTED THE CONFIGURATION PROGRAM THAT THE ALTERNATE CONSOLE BEING USED BY YOU WAS INSTALLED IN THE COMMON I/O. THE ALTERNATE CONSOLE DID NOT APPEAR AFTER THE TWO CHANNEL SWITCH WAS CHANGED TO THIS PROCESSOR. THE TCS SWITCHING MUST BE FOLLOWED CORRECTLY.

SUSPECT THE TCS CONSOLE OR ATTACHMENT.

ACTION

ENTER ON PROGRAMMER CONSOLE:

(B) 6 (I) (I) RESUME

THE CONFIGURATION PROGRAM WILL TERMINATE.

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MAP 3880-71

38C8 - ERROR - ALTERNATE CONSOLE DID NOT DISAPPEAR

COMMENT

YOU INSTRUCTED THE CONFIGURATION PROGRAM THAT THE ALTERNATE CONSOLE BEING USED BY YOU WAS INSTALLED IN THE COMMON I/O. THE ALTERNATE CONSOLE DID NOT DISAPPEAR AFTER THE TWO CHANNEL SWITCH WAS CHANGED TO THE OTHER PROCESSOR. THIS SHOULD HAVE OCCURED.

ACTION

IPL AND START THE PROGRAM AGAIN. ANSWER THE QUESTIONS CORRECTLY.
ENTER ON PROGRAMMER CONSOLE:

(B) 6 (I) (I) RESUME

THE CONFIGURATION PROGRAM WILL TERMINATE.

38C9 - ERROR - CONFIGURING DEVICE ADDRESS XX
INTERGRATED DI/DO NOT FOUR ENTRIES

COMMENT

DURING AN AUTO CONFIGURATION OR ADD FEATURE FUNCTION THE PROGRAM DID A READ ID TO FOUR ADDRESS STARTING AT ADDRESS XX (IDIDO) AND EXPECTED A RESPONSE FROM EACH ADDRESS. DUE TO A HARDWARE FAILURE SOME ADDRESS(S) DID NOT RESPOND. AS A RESULT, THE CONFIGURATION TABLE IS NOT CORRECT FOR THIS ATTACHMENT.

ACTION

SEE ATTACHMENT PROLOG FOR CONFIGURATION ENTRIES. AFTER THE CONFIGURATION IS COMPLETE, USE THE ADD ENTRY FUNTION TO CORRECT THE TABLE AND THEN RUN DIAGNOSTICS TO THIS ATTACHMENT.

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

NONE REQUIRED

(B) 6 (I) (I) RESUME

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38CA - ERROR - CONFIGURING DEVICE ADDRESS XX
TIMER NOT TWO ENTRIES

COMMENT

DURING AN AUTO CONFIGURATION OR ADD FEATURE FUNCTION THE PROGRAM DID A READ ID TO TWO ADDRESS STARTING AT ADDRESS XX (TIMER) AND EXPECTED A RESPONSE FROM EACH ADDRESS. DUE TO A HARDWARE FAILURE SOME ADDRESS(S) DID NOT RESPOND. AS A RESULT, THE CONFIGURATION TABLE IS NOT CORRECT FOR THIS ATTACHMENT.

ACTION

SEE ATTACHMENT PROLOG FOR CONFIGURATION ENTRIES.
AFTER THE CONFIGURATION IS COMPLETE, USE THE ADD ENTRY FUNTION TO CORRECT THE TABLE AND THEN RUN DIAGNOSTICS TO THIS ATTACHMENT.

ENTER ON ALTERNATE CONSOLE:

NONE REQUIRED

ENTER ON PROGRAMMER CONSOLE:

(B) 6 (I) (I) RESUME

38CB - WARNING - DEVICE ADDRESS XX NOT ATTACHED

COMMENT

IF THIS IS AN ADD FEATURE THE ENTRY WILL NOT BE ADDED TO THE TABLE.
IF THIS IS AN ADD ONE ENTRY OR AN ADD OEM THE ENTRY WILL BE ADDED TO THE TABLE.

ACTION

ENTER ON ALTERNATE CONSOLE:

NONE REQUIRED

ENTER ON PROGRAMMER CONSOLE:

(B) 6 (I) (I) RESUME

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38CC - ERROR - DEVICE XXXX IN ADDRESS RANGE OF M.L. CONTROLLER.

COMMENT

THERE IS AN ERROR IN MULTI-LINE CONTROLLER ADDRESS AREA.
A MULTI-LINE CONTROLLER HAS AN ADDRESS AREA.
SOME DEVICE IS JUMPERED TO THE ADDRESS OF THE AREA OF A CONTROLLER
CARD.

THE ACCA ML HAS AN ADDRESS AREA. NO OTHER DEVICE CAN USE THESE
RESERVED ADDRESSES. THE CONFIGURATION PROGRAM FOUND A DEVICE WITH
AN ADDRESS IN THIS AREA. THE CONFIGURATION TABLE ENTRY WITH THE
ADDRESS AREA ERROR MUST BE CHANGED.

ACTION

SEE WHICH DEVICE IS JUMPERED WITH AN ADDRESS IN THIS AREA.
THIS DEVICE ADDRESS MUST BE CHANGED ON THE CARD, OR THE CONTROLLER
ADDRESS MUST BE CHANGED.

- SEE THE ADDRESS RECORDED FROM R3.
- FIND THE DEVICE WITH THIS ADDRESS AREA AS ITS ADDRESS.

THE ADDRESS OF THE DEVICE IN THIS AREA MUST BE CHANGED.

38CD - ERROR - M.L. CONTROLLER XXXX MAY HAVE WRONG ADDRESS RANGE.

COMMENT

SEE THE ATTACHMENT PROLOG TO DETERMINE THE ADDRESS RANGE FOR THIS
FEATURE.

ACTION

CHECK ATTACHMENT ADDRESS JUMPERS.
CHECK THE CONFIGURATION ENTRY FOR THIS DEVICE ADDRESS.
PROGRAMMER CONSOLE OPERATION

LEVEL 3:

REG 2 = ENTRY ADDRESS OF CONFIGURATION TABLE IN STORAGE
REG 3 = DEVICE ADDRESS, DEVICE TYPE
REG 4 = DEVICE READ ID

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MAP 3880-74

38CE - ERROR - UNKNOWN SPECIFY CODE

COMMENT

THE SPECIFY CODE ENTERED BY YOU IS CORRECT, BUT THE SPECIFY CODE
ENTERED BY YOU DOES NOT MATCH THE CARD.
THE SPECIFY CODE ENTERED IS CORRECT FOR AN SDLC CARD. THE SPECIFY
CODE FOR THIS CARD ENTERED IS NOT CORRECT.

ACTION

COMPARE THE JUMPERS ON THE ATTACHMENT CARD TO THE SPECIFY CODE AND
CORRECT THE ENTRY.

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
ENTER THE CORRECT SPECIFY CODE	(B) 6 (I) (I) RESUME

38CF - ERROR - CONFIGUTATION ENTRY FOR XXXX NOT COMPLETE

COMMENT

AN ENTRY IN THE CONFIGURATION IS NOT CORRECT.
PROGRAMMER CONSOLE OPERATION
LEVEL 3:
REG 2 = ENTRY ADDRESS OF CONFIGURATION TABLE IN STORAGE
REG 3 = DEVICE ADDRESS, DEVICE TYPE
REG 4 = DEVICE READ ID

ACTION

DISPLAY THE ENTRY AND CORRECT.	
ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
ENTER THE CORRECT SPECIFY CODE	(B) 6 (I) (I) RESUME

38D0 - ERROR - FROM TABLE EMPTY

COMMENT

AN ATTEMPT TO COMBINE THE CONFIGURATION TABLE FROM TWO DISKETTES AND THE PROGRAM FOUND AN EMPTY TABLE ON THE FROM DISKETTE.

ACTION

US OPTION 00 TO DISPLAY THE TABLE ON THE FROM DISKETTE

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
NONE REQUIRED	(B) 6 (I) (I) RESUME

38D1 - ERROR - CONFIGURING DEVICE ADDRESS XX
LCC NOT THREE ENTRIES

COMMENT

DURING AN AUTO CONFIGURATION OR ADD FEATURE FUNCTION THE PROGRAM DID A READ ID TO THREE ADDRESS STARTING AT ADDRESS XX (LCC) AND EXPECTED A RESPONSE FROM EACH ADDRESS. DUE TO A HARDWARE FAILURE SOME ADDRESS(S) DID NOT RESPOND. AS A RESULT, THE CONFIGURATION TABLE IS NOT CORRECT FOR THIS ATTACHMENT.

ACTION

SEE ATTACHMENT PROLOG FOR CONFIGURATION ENTRIES.
AFTER THE CONFIGURATION IS COMPLETE, USE THE ADD ENTRY FUNTION TO CORRECT THE TABLE AND THEN RUN DIAGNOSTICS TO THIS ATTACHMENT.

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
NONE REQUIRED	(B) 6 (I) (I) RESUME

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38D2 - ERROR - CONFIGURING DEVICE ADDRESS XX
SCSLC NOT TWO ENTRIES

COMMENT

DURING AN AUTO CONFIGURATION OR ADD FEATURE FUNCTION THE PROGRAM DID A READ ID TO TWO ADDRESS STARTING AT ADDRESS XX (SCSLC) AND EXPECTED A RESPONSE FROM EACH ADDRESS. DUE TO A HARDWARE FAILURE SOME ADDRESS(S) DID NOT RESPOND. AS A RESULT, THE CONFIGURATION TABLE IS NOT CORRECT FOR THIS ATTACHMENT.

ACTION

SEE ATTACHMENT PROLOG FOR CONFIGURATION ENTRIES.
AFTER THE CONFIGURATION IS COMPLETE, USE THE ADD ENTRY FUNTION TO CORRECT THE TABLE AND THEN RUN DIAGNOSTICS TO THIS ATTACHMENT.

ENTER ON ALTERNATE CONSOLE:

NONE REQUIRED

ENTER ON PROGRAMMER CONSOLE:

(B) 6 (I) (I) RESUME

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38D3 - ERROR - THE FOLLOWING DEVICES ARE IN HARDWARE BUT
NOT IN THE CONFIGURATION TABLE

COMMENT

DEVICE ADDRESS=XXXX DEVICE ID= YYYY

A RESPONSE WAS RECEIVED WHEN READ ID WAS EXECUTED TO ADDRESS 'XX'.
THE DEVICE WAS FOUND IN THE HARDWARE, BUT THERE IS NO ENTRY IN THE
CONFIGURATION TABLE.

IF AN ALTERNATE CONSOLE IS ASSIGNED IT WILL DISPLAY THE DEVICE
ADDRESS AND ID READ.

PROGRAMMER CONSOLE OPERATION

LEVEL 3

REG 3 = DEVICE ADDRESS, DEVICE TYPE (DADT)

REG 4 = DEVICE READ ID (RID)

ACTION

RECORD THE DEVICE ADDRESS, DEVICE TYPE AND READ ID.

AFTER ALL ERRORS ARE RECORDED COMPARE THE DEVICE ADDRESS AND ID
RECEIVED AGAINST THE INSTALLED HARDWARES. THIS DEVICE MAY HAVE TO
BE ADDED TO THE TABLE.

ENTER ON ALTERNATE CONSOLE:

NONE REQUIRED

ENTER ON PROGRAMMER CONSOLE:

(B) 6 (I) (I) RESUME

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MAP 3880-78

38D4 - ERROR - THE FOLLOWING DEVICES ARE IN THE CONFIGURATION TABLE BUT NOT IN THE HARDWARE

COMMENT

AN OIO CONDITION CODE OF 00 WAS RETURNED FROM A READ ID TO A DEVICES THAT HAS AN ENTRY IN THE CONFIGURATION TABLE ON THE DISKETTE. CONDITION CODE 00 = DEVICE NOT ATTACHED.

IF AN ALTERNATE CONSOLE IS ASSIGNED IT WILL DISPLAY THE CONFIGURATION TABLE ENTRY FOR THIS ADDRESS AS READ FROM THE DISKETTE.

PROGRAMMER CONSOLE OPERATION

LEVEL 3, REG 3 = DEVICE ADDRESS, DEVICE TYPE (DADT)
LEVEL 3, REG 4 = DEVICE READ ID (RID)

THE CONFIGURATION TABLE IS IN STORAGE A LOCATION X3000
USE THE DEVICE TYPE FROM THE ENTRY TO DETERMINE ID WORD EXPECTED.

ACTION

RECORD THE DEVICE ADDRESS, DEVICE TYPE AND READ ID.
AFTER ALL ERRORS HAVE BEEN RECORDED THE CHANGE/DISPLAY OPTION (03) CAN BE USED TO DESPLAY THE CONFIGURATION TABLE ENTRY OR USE THE DEVICE TABLE IN SECTION 08.01.05 TO DETERMINE FAILING DEVICES.

VERIFY THAT THE DEVICE ADDRESS, DEVICE TYPE AND DEVICE ID IN THE CONFIGURATION TABLE MATCH A DEVICE THAT IS INSTALLED.

THE FIRST BYTE OF THE CONFIGURATION ENTRY IS THE DEVICE ADDRESS.
THE SECOND BYTE OF THE ENTRY IS THE DEVICE TYPE CODE. USE IT TO FIND THE DEVICE ID IN THE TABLE AT 08.01.05.

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

NONE REQUIRED

(B) 6 (I) (I) RESUME

38D5 - ERROR - THE FOLLOWING DEVICE READ ID'S IN HARDWARE
DO NOT MATCH THE CONFIGURATION TABLE.

HARDWARE TABLE	DEVICE ADDRESS	DEVICE TYPE	READ ID
	XXXX	XX	XXXX

COMMENT

THE RESPONSE TO A READ ID TO ADDRESS XX DOES NOT MATCH THE ID WORD
IN THE CONFIGURATION TABLE FOR THIS ADDRESS.

PROGRAMMER CONSOLE OPERATION

LEVEL 3:

- REG 1 = HARDWARE DEVICE ADDRESS AND DEVICE TYPE (DADT)
- REG 2 = ID WORD RECEIVED FROM A READ ID TO A FEATURE

LEVEL 3:

- REG 3 = THE DEVICE ADDRESS AND DEVICE TYPE (DADT)
- REG 4 = THE ID WORD RECEIVED FROM THE CONFIGURATION TABLE

ACTION

RECORD THE HARDWARE DEVICE ADDRESS, DEVICE TYPE AND READ ID
RECORD THE TABLE DEVICE ADDRESS, DEVICE TYPE AND READ ID
COMPARE THE HARDWARE AND TABLE RECORDS

CHECK THE INSTALLED HARDWARE JUMPERS

THE DEVICE IS RETURNING THE WRONG ID OR THE TABLE HAS A WRONG
ID.

THE CONFIGURATION ENTRY MUST MATCH THE INSTALLED HARDWARE.

ENTER ON ALTERNATE CONSOLE:

NONE REQUIRED

ENTER ON PROGRAMMER CONSOLE:

(B) 6 (I) (I) RESUME

38D6 - ERROR - THE FOLLOWING ENTRIES HAVE DUPLICATE
DEVICE ADDRESSES.

COMMENT

THE CONFIGURATION TABLE HAS TWO ENTRIES WITH THE SAME ADDRESS
ASSIGNED.

PROGRAMMER CONSOLE OPERATION

LEVEL 3

RECORD REG 2 = FIRST ENTRY ADDRESS IN CONFIGURATION TABLE
XXXX HEX STORAGE ADDRESS

RECORD REG 3 = SECOND ENTRY ADDRESS IN CONFIGURATION TABLE
XXXX = HEX STORAGE ADDRESS

RECORD REG 4 = 00XX - DEVICE ADDRESS
XX = DIVICE ADDRESS

ACTION

AN ENTRY IN THE CONFIGURATION TABLE IS NOT CORRECT. THE ENTRY
THAT IS NOT CORRECT MUST BE CHANGED.

ENTER ON ALTERNATE CONSOLE:

NONE REQUIRED

ENTER ON PROGRAMMER CONSOLE:

(B) 6 (I) (I) RESUME

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38D7 - ERROR - THE FOLLOWING ENTRIES DEVICE TYPE AND
 READ ID'S DO NOT MATCH.

COMMENT

THE DEVICE TYPE AND DEVICE ID FOR THE ENTRY DISPLAYED DO NOT
 MATCH. SEE MAP 3880, 08.01.05, TYPE AND ID TABLE AND CORRECT THE
 ENTRY.

PROGRAMMER CONSOLE OPERATION

LEVEL 3:

REG 2 = ENTRY ADDRESS OF CONFIGURATION TABLE IN STORAGE

REG 3 = DEVICE ADDRESS, DEVICE TYPE

REG 4 = DEVICE READ ID

ACTION

RECORD DEVICE ADDRESS, DEVICE TYPE AND READ ID.
 DEVICE ID WORD AND DEVICE TYPE IN THE ENTRY ARE NOT FOR THE SAME
 DEVICE.
 CONFIGURATION TABLE ENTRY FOR THIS DEVICE ADDRESS MUST BE
 CORRECTED.

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

 NONE REQUIRED

 (B) 6 (I) (I) RESUME

38D8 - ERROR - CONFIGURE RECORDS DO NOT COMPARE
 BASIC XXXX
 FROM XXXX

COMMENT

ERROR DURING A COMBINE FUNCTION.
 BOTH ENTRIES WILL BE ADDED TO THE RESULTANT CONFIGURATION TABLE IN
 STORAGE. THE RESULTANT TABLE WILL HAVE TO BE CORRECTED BEFORE IT
 IS WRITTEN TO THE DISKETTES.

ACTION

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

 NONE REQUIRED

 (B) 6 (I) (I) RESUME

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38D9 - ERROR - ENTRIES NOT CORRECTLY CHAINED TOGETHER.

DA DT RID
XX XX XXXX

COMMENT

SEE MAP 3880, 08.01.04, ENTRY 01-XX, BYTE 02, BIT 1.
THERE ARE TOO MANY OR TOO FEW ENTRIES CHAINED TOGETHER FOR ONE ATTACHMENT.

ACTION

THE CONFIGURATION TABLE MUST BE DISPLAYED. FIND THE ENTRY FOR THE DEVICE ADDRESS AND DEVICE TYPE GIVEN IN THE ERROR MESSAGE. SEE THE PROLOG FOR THAT DEVICE TYPE.

- THE ENTRIES IN A GROUP OF ADDRESSES (A SINGLE ATTACHMENT) MUST HAVE THE CHAIN BIT (BYTE 2, BIT 1) ON FOR ALL ENTRIES EXCEPT THE LAST ENTRY OF THAT GROUP.

TO DISPLAY THE CONFIGURATION ENTRY IN STORAGE:

TO DISPLAY ENTRY NUMBER XX	DISPLAY STORAGE LOCATION:	
	FROM	TO
00	3000	300F
01	3010	301F
02	3020	302F
03	3030	303F
04	3040	304F
05	3050	305F
06	3060	306F
07	3070	307F
08	3080	308F

ENTER ON ALTERNATE CONSOLE:

NONE REQUIRED

TO DISPLAY ENTRY NUMBER XX	DISPLAY STORAGE LOCATIONS:	
	FROM	TO
09	3090	309F
0A	30A0	30AF
0B	30B0	30BF
0C	30C0	30CF
0D	30D0	30DF
0E	30E0	30EF
0F	30F0	30FF
10	3100	310F
XX	3XX0	3XXF

ENTER ON PROGRAMMER CONSOLE:

(B) 6 (I) (I) RESUME

38DA - ERROR - RPQ'S MUST BE ADDED OR DELETED WITH ONE ENTRY OPTION.

COMMENT

AN ATTEMPT WAS MADE TO ADD/DELETE AN RPQ (DEVICE TYPE 80 - 9F) AS A MULTI ENTRY FEATURE.
THIS RPQ MUST BE ADDED/DELETED AS A SINGLE ENTRY.

ACTION

RETRY THE OPERATION AS ADD SINGLE ENTRY ONLY.
SEE RPQ PROLOG FOR CORRECT ENTRY.

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

NONE REQUIRED

(B) 6 (I) (I) RESUME

38DB - ERROR - TCS/PTCS FEATURE MUST BE ADDED WITH CONFIGURATION SYSTEM OPTION 'OC'

COMMENT

AN ADD FEATURE WITH THE ADDRESS OF A TWO CHANNEL SWITCH WAS ATTEMPTED.

ACTION

TWO CHANNEL SWITCH CAN ONLY BE ADDED AS A SINGLE ENTRY OR DURING AN AUTO CONFIGURATION.

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

NONE REQUIRED

(B) 6 (I) (I) RESUME

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ECA71517 PECA71494

38DC - ERROR - DEVICE ADDRESS XX ALREADY IN CONFIGURATION TABLE

COMMENT

AN ATTEMPT WAS MADE TO ADD AN ENTRY TO THE TABLE WITH A DEVICE ADDRESS THAT IS ALREADY IN THE TABLE. USE THE CHANGE/DISPLAY FUNCTION TO DISPLAY THE ENTRY FOR THAT ADDRESS. AN ADDRESS CAN ONLY BE USED ONCE ON A SYSTEM.

ACTION

ENTER ON ALTERNATE CONSOLE:

ENTER ON PROGRAMMER CONSOLE:

NONE REQUIRED

(B) 6 (I) (I) RESUME

38DE - ERROR - CONFIGURATION TABLE IS FULL.

COMMENT

THERE ARE MORE THAN 256 ENTRIES IN THE TABLE.

ACTION

DELETE THE EXTRA ENTRIES BEFORE ATTEMPTING TO ADD ENTRIES.

38DF - ERROR - MODULE NOT FOUND OR CANNOT BE READ

COMMENT

A PROGRAM CANNOT BE FOUND ON DISKETTE.
THIS ERROR WILL OCCURE IF OPTION 'OD' WRITE TABLE IS SELECTED FOR
A DISKETTE THAT IS NOT THE BASIC DIAGNOSTIC DISKETTE. THE FIRST
WRITE TABLE MUST SORT THE TABLE. THE SORT PROGRAM IS ON THE BASIC
DISKETTE.

ACTION

POSSIBLE BAD DISKETTE
INSERT THE CORRECT DISKETTE AND TRY THE OPERATION AGAIN.

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
NONE REQUIRED	(B) 6 (I) (I) RESUME

38E0 - ERROR - TCS/PTCS ENTRY NOT FOUND IN CONFIGURATION TABLE

COMMENT

AN ATTEMPT TO USE FUNCTION 08 WITHOUT A TCS ENTRY IN TABLE.

ACTION

CORRECT THE TCS ENTRY FIRST, THEN USE FUNCTION 08.

ENTER ON ALTERNATE CONSOLE:	ENTER ON PROGRAMMER CONSOLE:
-----	-----
NONE REQUIRED	(B) 6 (I) (I) RESUME

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38E1 - ERROR - MODEMS MIXED OR NOT CONTINUOUS
CONFIGURATION ENTRY FOR DADT NOT COMPLETE

COMMENT

THE PROGRAM HAS FOUND MORE THAN ONE TYPE OF MODEM OR
THE PROGRAM HAS FOUND A MISSING OR DEFECTIVE MODEM.
MODEMS MUST BE INSTALLED CONTINUOUSLY FROM THE FIRST POSITION.
PROGRAMMER CONSOLE OPERATION

LEVEL 3:

REG 3 = DEVICE ADDRESS, DEVICE TYPE

ACTION

ENTER ON ALTERNATE CONSOLE:

NONE REQUIRED

ENTER ON PROGRAMMER CONSOLE:

(B) 6 (I) (I) RESUME

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MAP 3880-87

PAPER ONLY

PAGE 1 OF 192

ENTRY POINTS

FROM ENTER THIS MAP			
MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER
0020	A	2	001
0020	AC	12	028
0020	CA	85	228
0020	DD	184	514
0020	DL	73	198
0020	DT	189	536
0020	EE	187	527
0020	ES	21	059
0020	FF	188	532
0020	FP	83	225
0020	MD	71	193
0020	OE	83	224
0020	OT	36	094
0020	PB	96	250
0020	PO	97	252
0020	PR	96	251
0020	PS	97	253
0020	RD	51	138
0020	SC	82	222
0020	SI	61	167
0020	SO	62	171
0020	SS	160	434
0020	TA	125	336
0020	TM	43	118
0020	TP	93	241
0020	TR	188	534
0020	TS	82	223
0020	WC	52	140
0020	WD	45	123
0020	WE	46	127

EXIT POINTS

EXIT THIS MAP TO			
PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT
14	033	0020	A
25	066	0020	A
35	091	0020	A
18	047	0020	CP
21	056	0020	PD
16	039	0070	A
33	087	0070	A
171	466	0070	A
173	472	0070	A
174	474	0070	A
174	476	0070	A
181	501	0070	A
182	503	0070	A
185	520	0070	A
186	522	0070	A
189	537	0070	A
190	539	0070	A
188	531	1470	A
16	036	2070	KE
2	002	3882	A

001
(ENTRY POINT A)

THIS MAP IS FOR USE WITH THE CONFIGURATION PROGRAM WHEN THE SUPPORTED ALTERNATE CONSOLE ASSIGNED IN THE CONFIGURATION TABLE IS A PRINTER OR DISPLAY WITH OR WITHOUT A KEYBOARD.

- SEE THE DEVICE OR RPQ MAPS PROLOG, PARAGRAPH 5.1, FOR CONFIGURATION INFORMATION ON ANY DEVICE.
- SEE IF THE ALTERNATE CONSOLE IS A PRINTER OR DISPLAY WITH OR WITHOUT A KEYBOARD.

IS AN ALTERNATE CONSOLE INSTALLED AS NOTED ABOVE?

Y N

| 002
 | THE ALTERNATE CONSOLE IS NOT A
 | PRINTER OR DISPLAY WITH OR
 | WITHOUT A KEYBOARD. IT IS A
 | PROGRAMMER OR MAINTENANCE
 | CONSOLE,
 | GO TO MAP 3882, ENTRY POINT A.

WHEN AN ATTACHMENT CARD IS SUSPECT IN THIS MAP, EXCHANGE THE ATTACHMENT CARD.

IF THE SUSPECT CARD IS PART OF A MORE THAN ONE CARD ATTACHMENT, SIMILAR TO A 4962, A 4982 OR A COMMUNICATION FEATURE, ANY OF THE CARD(S) OR ASSOCIATED CABLE(S) ARE SUSPECT.

AFTER EXCHANGING THE SUSPECT CARD, IF THE ORIGINAL FAILURE IS ON THE SYSTEM, THE CABLE(S) TO THE DEVICE AND THE CARD(S) ASSOCIATED WITH THE CABLE(S), ON THE DEVICE END, ARE SUSPECT AND MUST BE INSPECTED OR EXCHANGED.

3
A

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MAP 3881-2

C
3

PRINTER/DISPLAY WITH

MAP 3881-4

OR WITHOUT KEYBOARD

PAGE 4 OF 192

004

- SEE CONSOLE MESSAGE:

OPTION TABLE

- 01 = PRINT TABLE
- 02 = DELETE
- 03 = CHANGE
- 04 = ALTERNATE CONSOLE
- 05 = TERMINATE
- 06 = PROCESSING UNIT TYPE
- 07 = TWO CHANNEL SWITCH
- 08 = STORAGE SIZE
- 09 = PRINT SYSTEM EQUIPMENT
- 0A = ADD
- 0B = BYPASS OPTION TABLE
- 0C = CONFIGURE SYSTEM
- 0D = DISKETTE WRITE
- 0E = OEMI
- 0F = FLOATING POINT
- 10 = COMBINE
- 20 = PRINT TABLE FROM A DISKETTE

FUNCTION

ENTER

IS THIS MESSAGE ON THE CONSOLE?

Y N

005

- SEE CONSOLE MESSAGE:

ALTERNATE CONSOLE DEVICE
 ADDRESS AND TYPE
 ENTER

IS THIS MESSAGE ON THE CONSOLE?

Y N

1
1 6 5
D E F

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MAP 3881-4

F
4

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD

MAP 3881-5

PAGE 5 OF 192

006

- SEE CONSOLE MESSAGE:

FIRST AUTO CONFIGURATION
INNER STORAGE
03=16K, 07=32K, 0B=48K, 0F=64K
ENTER

IS THIS MESSAGE ON THE CONSOLE?

Y N

007

THE CONFIGURATION PROGRAM IS
NOT LOADED ON THE SYSTEM.

- ENTER ON CONSOLE:

B38F0 ENTER/RETURN KEY

CONFIGURATION PROGRAM 38F0
LOADS.

GO TO PAGE 2, STEP 001,
ENTRY POINT A.

008

GO TO PAGE 82, STEP 222,
ENTRY POINT SC.

- USING PROGRAMMER CONSOLE:

(B) B (I)
(B) 38F0 (I) (I)

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MAP 3881-5

E
4

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD

MAP 3881-6

PAGE 6 OF 192

009

- SELECT THE ALTERNATE CONSOLE FROM THE TABLE.

AN ALTERNATE CONSOLE IS:	MAP/ TYPE	AA TT
4973 PRINTER	6800	AA68
4974 PRINTER	6400	AA64
5200 PRINTERS	6A00	AA6A
MULTIFUNCTION	E600	AAE6
3101-7485-4975		
3101 RPQ D02350	81F0	AA81
3101 ACCA SL	E800	AAE8
3101 ACCA ML	E900	AAE9
3101 FPMLC	EA00	AAEA
4978	4500	AA45
4979	4400	AA44
4980	F900	AAF9
7485 RPQ D02350	81FX	AA81
TTY ATTACHMENT %	4000	AA40
5251/5291	E400	AAE4

- ENTER THE CONSOLE DEVICE ADDRESS AND TYPE.

- ENTER ON CONSOLE:

 FAATT ENTER/RETURN KEY
 TT = DEVICE TYPE
 AA = DEVICE ADDRESS

- USING PROGRAMMER CONSOLE:

 (B) B (I)
 (B) AATT (I) (I)

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

(STEP 009 CONTINUES)

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MAP 3881-6

PRINTER/DISPLAY WITH

MAP 3881-7

OR WITHOUT KEYBOARD

PAGE 7 OF 192

(STEP 009 CONTINUED)

IS THE ENTRY CORRECT?

Y N

|

| 010

| GO TO PAGE 12, STEP 028,

| ENTRY POINT AC.

|

011

- SEE CONSOLE MESSAGE:

00 = 3101 DISPLAY

01 = 7485 MODEL 53 DISPLAY

02 = 7485 MODEL 63 DISPLAY

03 = 4975 MODEL 01L PRINTER

04 = 4975 MODEL 02L PRINTER

IS THIS MESSAGE ON THE CONSOLE?

Y N

|

| 012

| - SEE CONSOLE MESSAGE:

|

| IDSA STATION ADDRESS = XY?

| X = CABLE ADDRESS (0 - 3)

| Y = STATION ADDRESS (0 - 6)

|

| IS THIS MESSAGE ON THE CONSOLE?

Y N

|

| 013

| - SEE CONSOLE MESSAGE:

|

| 5200 SERIES PRINTER

| ADDRESS = 0X

|

| IS THIS MESSAGE ON THE
| CONSOLE?

Y N

|

|

|

|

|

|

|

|

|

|

|

|

|

|

1 1 1

1 0 0 8

G H J K

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MAP 3881-7

K
7

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD

MAP 3881-8

PAGE 8 OF 192

014

- SEE CONSOLE MESSAGE:

PORT/LINE SPEED/TERMINAL ADDRESS = ZYXX

Z = PORT ADDRESS 0 - 1

Y = LINE SPEED 0= 100K

1= 250K

2= 500K

XX = TERMINAL ADDRESS

IS THIS MESSAGE ON THE CONSOLE?

Y N

015

(ENTRY POINT AX)

- SEE THE ASSIGNED ALTERNATE
CONSOLE.

THE CONFIGURATION PROGRAM WILL
ASSIGN THE ALTERNATE CONSOLE
AND TERMINATE.

DID THE CONFIGURATION PROGRAM
TERMINATE?

Y N

016

GO TO PAGE 12, STEP 028,
ENTRY POINT AC.

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9 9
L M

MAP 3881-8

L M
8 8

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD

MAP 3881-9

PAGE 9 OF 192

017

LOAD THE CONFIGURATION PROGRAM
(38F0).

- ENTER ON CONSOLE:

B38F0 ENTER/RETURN KEY

CONFIGURATION PROGRAM 38F0
LOADS.

GO TO PAGE 82, STEP 222,
ENTRY POINT SC.

018

A 4980 DISPLAY IS INSTALLED ON
THE SYSTEM AND YOU WANT TO ASSIGN
IT AS THE ALTERNATE CONSOLE.

- ENTER ON KEYBOARD:

FZYXX ENTER/RETURN

Z = PORT ADDRESS 0 - 1
Y = LINE SPEED 0 = 100K
 1 = 250K
 2 = 500K
XX = TERMINAL ADDRESS

GO TO PAGE 8, STEP 015,
ENTRY POINT AX.

- USING PROGRAMMER CONSOLE:

(B) B (I)
(B) 38F0 (I) (I)

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) ZYXX (I) (I)

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MAP 3881-9

H J
7 7

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD

MAP 3881-10

PAGE 10 OF 192

019

A 5200 PRINTER IS INSTALLED ON
THE SYSTEM AND YOU WANT TO
ASSIGN IT AS THE ALTERNATE
CONSOLE.

- ENTER ON KEYBOARD:

FOX ENTER/RETURN KEY
WHERE X = PAAA
P = PORT NUMBER 0-1
AAA = PRINTER ADDRESS 0-6

GO TO PAGE 8, STEP 015,
ENTRY POINT AX.

020

A 52X1 IS INSTALLED ON THE SYSTEM
AND YOU WANT TO ASSIGN IT AS THE
ALTERNATE CONSOLE.

- ENTER ON KEYBOARD:

FX Y ENTER/RETURN KEY
X = CABLE ADDRESS 0-3
Y = STATION ADDRESS 0-6

- SEE CONSOLE MESSAGE:

ENTRY NOT VALID.
ENTER

IS THIS MESSAGE ON THE CONSOLE?

Y N

021

THE ENTRY IS COMPLETE
GO TO PAGE 8, STEP 015,
ENTRY POINT AX.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0X00 (I) (I)

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) XY00 (I) (I)

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MAP 3881-10

1
1
N

D G N PRINTER/DISPLAY WITH
4 7 1
0 OR WITHOUT KEYBOARD

MAP 3881-11

PAGE 11 OF 192

022
ENTRY NOT VALID.

THE ENTRY MUST BE AS FOLLOWS:

X = CABLE ADDRESS (0 - 3)
Y = STATION ADDRESS (0 - 6)
ENTER 'XY' CORRECTLY. WHEN
DONE

GO TO PAGE 8, STEP 015,
ENTRY POINT AX.

023

- ENTER ON KEYBOARD:

FOX ENTER/RETURN KEY
00 = 3101 DISPLAY
01 = 7485 MODEL 53 DISPLAY
02 = 7485 MODEL 63 DISPLAY
03 = 4975 MODEL 01L PRINTER
04 = 4975 MODEL 02L PRINTER

GO TO PAGE 8, STEP 015,
ENTRY POINT AX.

024

GO TO PAGE 36, STEP 094,
ENTRY POINT OT.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0X00 (I) (I)

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MAP 3881-11

B
3

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD

MAP 3881-12

PAGE 12 OF 192

025
(ENTRY POINT ER)

- ENTER ON CONSOLE:

F02 ENTER/RETURN KEY
 02 = PRINT THE ERROR(S)

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0200 (I) (I)

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

IS THE ENTRY CORRECT?

Y N

|
| 026
| GO TO STEP 028,
| ENTRY POINT AC.

027
- SEE ASSIGNED ALTERNATE CONSOLE.
- SEE IF ANY CONFIGURATION
 ERROR(S) PRINT OR DISPLAY.

DO ANY CONFIGURATION ERROR(S)
PRINT OR DISPLAY?

Y N

|
| 028
| (ENTRY POINT AC)

|
| - SEE ASSIGNED ALTERNATE
| CONSOLE.

|
| IS THE ASSIGNED ALTERNATE
| CONSOLE A 4978 RPQ DISPLAY?

| Y N

2 1 1
1 9 3
P Q R

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MAP 3881-12

R PRINTER/DISPLAY WITH
1
2 OR WITHOUT KEYBOARD

MAP 3881-13

PAGE 13 OF 192

029

- SEE IF THE ASSIGNED ALTERNATE
CONSOLE A 5251/5291 DISPLAY.

IS THE ASSIGNED ALTERNATE CONSOLE
A 52X1 DISPLAY?

Y N

030

- SEE IF THE ASSIGNED ALTERNATE
CONSOLE A 3101/7485.

IS THE ASSIGNED ALTERNATE
CONSOLE A 3101/7485 DISPLAY

Y N

031

(ENTRY POINT AF)

- SEE IF ANOTHER SUPPORTED
ALTERNATE CONSOLE IS
INSTALLED ON THE PROCESSING
UNIT.

IS THERE ANOTHER SUPPORTED
ALTERNATE CONSOLE INSTALLED
ON THE PROCESSING UNIT?

Y N

032

- SEE IF A PROGRAMMER OR
MAINTENANCE CONSOLE IS
INSTALLED ON THE
PROCESSING UNIT.

IS A PROGRAMMER OR
MAINTENANCE CONSOLE
INSTALLED ON THE PROCESSING
UNIT?

Y N

1 1 1 1 1
7 7 7 5 4
S T U V W

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MAP 3881-13

W PRINTER/DISPLAY WITH
1
3 OR WITHOUT KEYBOARD

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033

GET THE FOLLOWING:

1. MAINTENANCE CONSOLE.
2. ALTERNATE CONSOLE ATTACHMENT CARD.

INSTALL MAINTENANCE CONSOLE:

SEE THE PROCESSING UNIT MIM :
'MAINTENANCE CONSOLE ATTACHMENT
PROCEDURE'.
SEE MLD VOLUME 1, PA100 FOR
PROCESSING UNIT TOP CARD
CONNECTOR LOCATIONS.
GO TO MAP 0020, ENTRY POINT A.

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V PRINTER/DISPLAY WITH
1
3 OR WITHOUT KEYBOARD

MAP 3881-15

| PAGE 15 OF 192
|
|

034
THE CONSOLE IS NOT WORKING. THE
PROGRAMMER OR MAINTENENCE CONSOLE
CAN BE USED TO RUN DIAGNOSTICS
FOR THE SUSPECT CONSOLE.

```
+-----+
| GO TO MAP PROLOG FOR SUSPECT |
| ALTERNATE CONSOLE. IT HAS A  |
| LIST OF MANUAL MAPS TO RUN   |
| AND INSTRUCTIONS FOR DEVICE  |
| EXERCISERS AND UTILITIES OR  |
| OFFLINE TESTS, IF NECESSARY. |
|                               |
| LOAD MANUAL MAP INDICATED IN |
| PROLOG, SECTION 0.0, FOR THE |
| CONSOLE ATTACHMENT OR DEVICE. |
|                               |
| IF KEY OR KEYBOARD IS SUSPECT, |
| NOTE IF THERE IS A KEYBOARD  |
| CHECK LISTED.                 |
+-----+
```

- USING PROGRAMMER CONSOLE:

```
-----
(B) 5            (I) (I)
     5 = ASSIGN CONSOLE
              (PROGRAMMER)
```

IF INSTRUCTED, ENTER:

- USING PROGRAMMER CONSOLE:

```
-----
(B) B            (I)
(B) XXXX        (I) (I)
     XXXX = CONSOLE MAP NUMBER
```

- LISTEN FOR AUDIBLE DEVICE AS
KEYS ARE PRESSED.

IS CONSOLE ENTRY CORRECT?

Y N
| |
| |
| |
| |

1 1
6 6
X Y

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MAP 3881-15

X Y PRINTER/DISPLAY WITH
1 1
5 5 OR WITHOUT KEYBOARD

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035

IS THIS THE FIRST TIME HERE?

Y N

036

- NOTE THE CONSOLE KEY THAT
DOES NOT WORK.

GO TO MAP 2070,
ENTRY POINT KE.

037

- IPL DISKETTE P/N 1635001.
- ASSIGN THE CONSOLE FUNCTION
TO THE PROGRAMMER CONSOLE AS
FOLLOWS:

- USING PROGRAMMER CONSOLE:

(B) 5 (I) (I)

THE PROGRAMMER CONSOLE IS NOW
THE ALTERNATE CONSOLE UNTIL THE
NEXT IPL OF BASIC DISKETTE PART
NUMBER 1635001.

GO TO PAGE 12, STEP 028,
ENTRY POINT AC.

038

- FOLLOW INSTRUCTIONS IN THE
PROLOG, SECTION 0.0, AND RUN
ALL OF THE DIAGNOSTICS.

AFTER ALL OF THE DIAGNOSTICS ARE
RUN, ANSWER THE FOLLOWING
QUESTION:

DID THE ALTERNATE CONSOLE
DIAGNOSTICS REPAIR THE PROBLEM?

Y N

039

GO TO MAP 0070, ENTRY POINT A.

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1
7
Z

S T U Z PRINTER/DISPLAY WITH
1 1 1 1
3 3 3 6 OR WITHOUT KEYBOARD

MAP 3881-17

 PAGE 17 OF 192

040

- VERIFY THE REPAIR

041

GO TO PAGE 27, STEP 070,
ENTRY POINT AT.

042

THE ALTERNATE CONSOLE IS A
3101/7485 DISPLAY

A MESSAGE WAS DISPLAYED, YOU
MAY HAVE A KEYBOARD PROBLEM

- USE THE 3101/7485 SERVICE
GUIDE TO TEST THE DEVICE

IS THE TROUBLE CORRECTED?

Y N

043

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

044

- VERIFY THE REPAIR

045

THE ALTERNATE CONSOLE IS A 52X1
DISPLAY. IT IS NOT WORKING
CORRECTLY.

- SEE IF IT HAS ANY MESSAGES ON
THE SCREEN.

IS THE SCREEN DISPLAY CORRECT?

Y N

1 1
9 8
A A
A B

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ECA23101 PECA10990

MAP 3881-17

A PRINTER/DISPLAY WITH
B
1 OR WITHOUT KEYBOARD
7
 PAGE 18 OF 192

|
|

046

BEFORE A 52X1 DISPLAY CAN BE USED
AS AN ALTERNATE CONSOLE, DATA SET
E4C0 MUST BE WRITTEN FROM
DISKETTE PART NUMBER 6826590 TO
THE BASIC DISKETTE PART NUMBER
1635001. THIS MUST HAVE BEEN
DONE WHEN THE 52X1 WAS INSTALLED.
USE THE PROGRAMMER OR MAINTENANCE
CONSOLE AND THE UTILITY PROGRAM
38F9 TO DISPLAY THE VTOC FOR THE
BASIC DISKETTE. SEE IF DATA SET
E4C0 IS ON THE DISKETTE.

IS THERE A VTOC ENTRY ON THE
BASIC DISKETTE FOR 'E4C0'?

Y N

|
|

047

| - WRITE DATA SET E4C0 FROM
| DISKETTE, PART NUMBER 6826590
| TO THE BASIC DISKETTE, PART
| NUMBER 1635001.
| - IPL DISKETTE P/N 1635001.
| - WAIT ONE MINUTE.
| GO TO MAP 0020, ENTRY POINT CP.
|

048

- USE THE PROGRAMMER OR
MAINTENANCE CONSOLE TO RUN THE
52X1 INFORMATION DISPLAY SYSTEM
ATTACHMENT MAPS.
GO TO PAGE 13, STEP 031,
ENTRY POINT AF.

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MAP 3881-18

Q A PRINTER/DISPLAY WITH
1 A
2 1 OR WITHOUT KEYBOARD
7

MAP 3881-19

| PAGE 19 OF 192

| |
| |
| 049
| THE 52X1 CAN DISPLAY MESSAGES
| CORRECTLY. THERE MAY BE A
| KEYBOARD ENTRY PROBLEM.
| USE THE STATION VERIFY
| DISKETTE, PART NUMBER 6826590,
| TO PUT DISPLAY STATION(S) IN
| FREE KEY MODE. WHEN THE
| STATION(S) ARE IN FREE KEY
| MODE, USE THE STATION MAPS
| LOCATED IN A POCKET IN THE
| LOWER REAR OF THE STATION, TO
| REPAIR THE DISPLAY.

| DID THE 'FREE KEY MODE' MAPS
| REPAIR THE PROBLEM?

| Y N

| |
| | 050
| | THE PROBLEM ON THE 52X1
| | DISPLAY IS NOT ON THE
| | KEYBOARD.
| | GO TO PAGE 13, STEP 031,
| | ENTRY POINT AF.

| 051
| - VERIFY THE REPAIR

052
THE ALTERNATE CONSOLE IS A 4978
RPQ DISPLAY. THE 4978 DISPLAY IS
NOT WORKING CORRECTLY.

- SEE IF THE 4978 DISPLAY HAS ANY
MESSAGES ON THE SCREEN.

IS THE SCREEN DISPLAY CORRECT?

Y N

| 053
| GO TO PAGE 13, STEP 031,
| ENTRY POINT AF.

2
0
A
C

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ECA23101 PECA10990

MAP 3881-19

P A A A PRINTER/DISPLAY WITH
1 D E F
2 2 2 2 OR WITHOUT KEYBOARD
0 0 0

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056

THE KEYBOARD FUNCTION TABLE
FROM THE DISKETTE DOES NOT
MATCH THE KEYBOARD IN USE.

- IPL DISKETTE P/N 1635001.

AT MESSAGE:

PRESS ANY KEY IN 15 SECONDS
TO CHANGE KEYBOARD
DESCRIPTION

- PRESS ANY KEY ON THE 4978
KEYBOARD.

GO TO MAP 0020,
ENTRY POINT PD.

057

- VERIFY THE REPAIR

058

THE PROBLEM ON THE 4978 RPQ IS
NOT ON THE KEYBOARD.

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

059

(ENTRY POINT ES)

- SEE THE CONFIGURATION ERROR(S).
- SEE IF LESS THAN TEN ERRORS
PRINT OR DISPLAY.

DO LESS THAN TEN ERRORS PRINT OR
DISPLAY?

Y N

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

2 2
3 2
A A
G H

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ECA23101 PECA10990

A PRINTER/DISPLAY WITH
H OR WITHOUT KEYBOARD
2
1 PAGE 22 OF 192

|
|
060
MORE THAN TEN ERRORS PRINTED OR
DISPLAYED. THIS MAP DOES NOT
NEED MORE THAN TEN ERRORS.

- SEE IF A PROGRAMMER OR
MAINTENANCE CONSOLE IS
INSTALLED.

IS A PROGRAMMER OR MAINTENANCE
CONSOLE INSTALLED?

Y N

| 061

| - PRESS THE LOAD KEY.
| - WAIT FOR THE FOLLOWING
| MESSAGE:

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

| - ENTER ON CONSOLE

- USING PROGRAMMER CONSOLE:

| F03 ENTER/RETURN KEY
| 03 = PRINT OPTION TABLE
| GO TO PAGE 23, STEP 063,
| ENTRY POINT CE.

(B) 1F (I)
0300 = (I) (I)

2
3
A
J

A A PRINTER/DISPLAY WITH
G J
2 2 OR WITHOUT KEYBOARD
1 2

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MAP 3881-23

| |
| |
| 062
|
- USING PROGRAMMER CONSOLE:
- PRESS THE RESET PUSHBUTTON.
- PRESS THE START PUSHBUTTON.
- WAIT FOR THE FOLLOWING
CONFIGURATION ERROR MESSAGE:
CONFIGURATION ERROR(S)
01=TERMINATE
02=PRINT ALL ERRORS
03=PRINT OPTIONS
04=BYPASS 2 CHAN SWITCH ERRORS
ENTER
- ENTER ON KEYBOARD:

F03 ENTER/RETURN KEY
03 = PRINT OPTION TABLE
GO TO STEP 063,
ENTRY POINT CE.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0300 (I) (I)

063
(ENTRY POINT CE)

THE CONFIGURATION TABLE MUST BE
PRINTED OR DISPLAYED.

- ENTER ON KEYBOARD

F01 ENTER/RETURN KEY
01 = PRINT TABLE.

- WAIT FOR THE CONFIGURATION
TABLE TO PRINT.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

DID THE CONSOLE PRINT THE
CONFIGURATION TABLE?

Y N
| |
| |
| |

3 2
4 4
A A
K L

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MAP 3881-23

A PRINTER/DISPLAY WITH
 L OR WITHOUT KEYBOARD
 2
 3
 PAGE 24 OF 192

064
 THE CONSOLE IS NOT OPERATING
 CORRECTLY.

AN ALTERNATE CONSOLE IS:	MAP/ TYPE	AA TT
4973 PRINTER	6800	AA68
4974 PRINTER	6400	AA64
5200 PRINTERS	6A00	AA6A
MULTIFUNCTION 3101-7485-4975	E600	AAE6
3101 RPQ D02350	81F0	AA81
3101 ACCA SL	E800	AAE8
3101 ACCA ML	E900	AAE9
3101 FPMLC	EA00	AAEA
4978	4500	AA45
4979	4400	AA44
4980	F900	AAF9
7485 RPQ D02350	81FX	AA81
TTY ATTACHMENT %	4000	AA40
5251/5291	E400	AAE4

IS ANOTHER CONSOLE INSTALLED?
 Y N

065

- EXCHANGE THE ALTERNATE
CONSOLE ATTACHMENT CARD.
- RUN THE CONFIGURATION PROGRAM
TO THE SAME FAILURE POINT.

IS THE SAME PROBLEM ON THE
 CONSOLE?

Y N

| |
 | |
 | |
 | |

2 2 2
 7 5 5
 A A A
 M N P

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 ECA23101 PECA10990
 MAP 3881-24

A A PRINTER/DISPLAY WITH
 N P OR WITHOUT KEYBOARD
 2 2
 4 4
 PAGE 25 OF 192

| |
 | |
 | 066
 | GO TO MAP 0020, ENTRY POINT A.
 |
 067
 - SEE THE FAILING DEVICE MAP FROM
 THE TABLE.

AN ALTERNATE CONSOLE IS:	MAP/ TYPE	AA TT
4973 PRINTER	6800	AA68
4974 PRINTER	6400	AA64
5200 PRINTERS	6A00	AA6A
MULTIFUNCTION	E600	AAE6
3101-7485-4975		
3101 RPQ D02350	81F0	AA81
3101 ACCA SL	E800	AAE8
3101 ACCA ML	E900	AAE9
3101 FPMLC	EA00	AAEA
4978	4500	AA45
4979	4400	AA44
4980	F900	AAF9
7485 RPQ D02350	81FX	AA81
TTY ATTACHMENT %	4000	AA40
5251/5291	E400	AAE4

DID YOU SELECT MAP FROM TABLE?
 Y N
 |
 | 068
 | - SELECT THE FAILING DEVICE MAP
 | FROM TABLE AND CONTINUE ON
 | YES LEG.

2
 6
 A
 Q

A
Q
2
5

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 26 OF 192

MAP 3881-26

|
|
069

- ASSIGN THE ALTERNATE CONSOLE
FUNCTION TO THE PROGRAMMER
CONSOLE:

USING PROGRAMMER CONSOLE:

(B) 5 (I) (I) ASSIGN CONSOLE.
(B) 9 (I) (I) TERMINATE.
(B) 6 (I) (I) RESUME.
(B) B (I) START.
(B) XXXX (I) (I) CONSOLE
XXXX = MAP NUMBER

INSTRUCTIONS FOR USING THE
ALTERNATE CONSOLE MAP AND/OR
ERROR MESSAGES IN THE DATA LAMPS
ARE GIVEN IN THE ALTERNATE
CONSOLE MAP PROLOG.

- SEE THE MAP PROLOG OF THE
ALTERNATE CONSOLE DEVICE.

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MAP 3881-26

A PRINTER/DISPLAY WITH
M OR WITHOUT KEYBOARD
2
4 PAGE 27 OF 192

|
|
070
(ENTRY POINT AT)

USE THIS ALTERNATE CONSOLE TO RUN
DIAGNOSTICS FOR THE FAILING
CONSOLE.

- SEE THE ALTERNATE CONSOLE
DEVICE ADDRESS AND TYPE YOU
WANT TO USE AS A TEMPORARY
ASSIGNED ALTERNATE CONSOLE. TO
USE THIS OTHER CONSOLE, MAKE
THE CHANGE AS FOLLOWS:

- PRESS THE STOP KEY.
- PRESS THE STOP ON ADDRESS KEY.
- PRESS THE ONE (1) KEY.
- PRESS THE NINE (9) KEY.
- PRESS THE FIVE (5) KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE STORE KEY.
- PRESS THE STOP ON ADDRESS KEY.
- PRESS THE STOP ON ADDRESS KEY.
- PRESS THE LOAD KEY.
- WAIT FOR THE STOP LED TO GO ON.
(THE DATA LEDS SHOULD BE 1950)

IS THE PROCESSING UNIT A 4952,
4953 OR 4955?

Y N

|
| 071
| THE STOP LED WILL BE ON, BUT
| THE DATA LEDS MAY NOT BE EQUAL
| TO 1950.

| - PRESS THE START KEY UNTIL
| DATA LEDS = 1950 AND THE STOP
| LED IS ON.
| GO TO PAGE 28, STEP 072,
| ENTRY POINT AU.

|
|
|

2
8
A
R

A
R
2
7

PRINTER/DISPLAY WITH

MAP 3881-28

OR WITHOUT KEYBOARD

PAGE 28 OF 192

072

(ENTRY POINT AU)

- SELECT THE ALTERNATE CONSOLE
YOU WANT TO USE.

AN ALTERNATE CONSOLE IS:	MAP/ TYPE	AA TT
4973 PRINTER	6800	AA68
4974 PRINTER	6400	AA64
5200 PRINTERS	6A00	AA6A
MULTIFUNCTION	E600	AAE6
3101-7485-4975		
3101 RPQ D02350	81F0	AA81
3101 ACCA SL	E800	AAE8
3101 ACCA ML	E900	AAE9
3101 FPMLC	EA00	AAEA
4978	4500	AA45
4979	4400	AA44
4980	F900	AAF9
7485 RPQ D02350	81FX	AA81
TTY ATTACHMENT %	4000	AA40
5251/5291	E400	AAE4

DID YOU SELECT A CONSOLE?

Y N

073

- SELECT THE CONSOLE AND
CONTINUE ON YES LEG

2
9
A
S

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MAP 3881-28

A A PRINTER/DISPLAY WITH
W Y
2 3 OR WITHOUT KEYBOARD
9 0
 PAGE 31 OF 192

| |
| |
| 082
| 7485 - A MODEL (53 OR 63) MUST
| BE ENTERED IN R1.
|
| - PRESS THE 0 KEY.
| - PRESS THE 0 KEY.
| - PRESS THE 0 KEY.
| - PRESS THE X KEY.
| X = 1 = MODEL 53
| 2 = MODEL 63
| - PRESS THE STORE KEY.
| GO TO PAGE 33, STEP 086,
| ENTRY POINT AV.

083
4980 - A SUBADDRESS AND LINE
SPEED MUST BE ENTERED IN R1.

- PRESS Z KEY.
- PRESS Y KEY.
- PRESS X KEY.
- PRESS X KEY.
 Z = PORT ADDRESS 0 - 1
 Y = LINE SPEED 0 = 100K
 1 = 250K
 2 = 500K
 XX = TERMINAL ADDRESS
- PRESS THE STORE KEY.
GO TO PAGE 33, STEP 086,
ENTRY POINT AV.

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A A PRINTER/DISPLAY WITH
U V
2 2 OR WITHOUT KEYBOARD
9 9

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| |
| |
| 084
| 52X1 - A CABLE AND STATION
| ADDRESS MUST BE ENTERED IN R1.
|
| - PRESS 0 KEY.
| - PRESS 0 KEY.
| - PRESS X KEY.
| - PRESS Y KEY.
| X = CABLE ADDRESS 0-3
| Y = STATION ADDRESS 0-6
| - PRESS THE STORE KEY.
| GO TO PAGE 33, STEP 086,
| ENTRY POINT AV.

085
4975 - A MODEL (01L OR 02L) MUST
BE ENTERED IN R1.

- PRESS THE 0 KEY.
- PRESS THE 0 KEY.
- PRESS THE 0 KEY.
- PRESS THE X KEY.
 X = 3 = MODEL 01L
 4 = MODEL 02L
- PRESS THE STORE KEY.
GO TO PAGE 33, STEP 086,
ENTRY POINT AV.

A PRINTER/DISPLAY WITH
T
2 OR WITHOUT KEYBOARD
9
PAGE 33 OF 192

MAP 3881-33

|
|
086
(ENTRY POINT AV)

- PRESS THE STOP ON ADDRESS KEY.
- PRESS THE START KEY.

REMEMBER - THE 'OTHER' ALTERNATE
CONSOLE YOU JUST ASSIGNED IS USED
ONLY UNTIL YOU IPL THE PROCESSING
UNIT AGAIN. DO THE ABOVE
PROCEDURE BEFORE EACH IPL, OR THE
'OLD' ALTERNATE CONSOLE WILL BE
USED BY THE DIAGNOSTICS.

```
+-----+  
| GO TO MAP PROLOG FOR SUSPECT |  
| ALTERNATE CONSOLE. IT HAS A |  
| LIST OF MANUAL MAPS TO RUN |  
| AND INSTRUCTIONS FOR DEVICE |  
| EXERCISERS AND UTILITIES OR |  
| OFFLINE TESTS, IF NECESSARY. |  
| |  
| LOAD MANUAL MAP INDICATED IN |  
| PROLOG, SECTION 0.0, FOR THE |  
| CONSOLE ATTACHMENT OR DEVICE. |  
| |  
| IF KEY OR KEYBOARD IS SUSPECT, |  
| NOTE IF THERE IS A KEYBOARD |  
| CHECK LISTED. |  
+-----+
```

IS THE ORIGINAL ALTERNATE CONSOLE
PROBLEM REPAIRED?

Y N
|
| 087
| GO TO MAP 0070, ENTRY POINT A.
|

088
- VERIFY THE REPAIR

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MAP 3881-33

A
K
2
3

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 34 OF 192

MAP 3881-34

089

- COMPARE THE SYSTEM HARDWARE CONFIGURATION WITH THE CONFIGURATION TABLE FROM DISKETTE.
- SEE THE MACHINE HISTORY.
- ENSURE THE CUSTOMER DID NOT MAKE ANY CHANGES TO THE HARDWARE.

READ THIS STATEMENT WITH CARE:

IT MAY BE NECESSARY TO REMOVE THE ATTACHMENT CARD(S) IN ERROR SO YOU CAN VERIFY ADDRESS JUMPERING AND OTHER JUMPERS, IF INSTALLED. IF THERE IS A STORAGE PROBLEM, YOU MAY HAVE TO REMOVE THE STORAGE SO THAT YOU CAN VERIFY JUMPERING, IF INSTALLED. ENSURE THE ERROR IS NOT A CUSTOMER OR MAINTENANCE ERROR BEFORE CONTINUING.

- SEE THE LOGIC FOR THE ATTACHMENT OR THE STORAGE FOR JUMPERING INFORMATION.
- SEE THE SYSTEM HARDWARE CONFIGURATION AND THE CONFIGURATION TABLE.

DOES THE SYSTEM HARDWARE AND THE CONFIGURATION TABLE COMPARE?

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

1
6 3
5 5
A B
Z A

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MAP 3881-34

|
|
094
(ENTRY POINT OT)

- SEE THE OPTION YOU WANT TO USE
TO CORRECT THE CONFIGURATION
TABLE:

OPTION TABLE
01 = PRINT TABLE
02 = DELETE
03 = CHANGE
04 = ALTERNATE CONSOLE
05 = TERMINATE
06 = PROCESSING UNIT TYPE
07 = TWO CHANNEL SWITCH
08 = STORAGE SIZE
09 = PRINT SYSTEM EQUIPMENT
0A = ADD
0B = BYPASS OPTION TABLE
0C = CONFIGURE SYSTEM
0D = DISKETTE WRITE
0E = OEMI
0F = FLOATING POINT
10 = COMBINE
20 = PRINT TABLE FROM A DISKETTE
FUNCTION
ENTER

IF YOU HAVE A COPY OF THE
CONFIGURATION TABLE, ANSWER THE
QUESTION 'NO'.

IF YOU DO NOT HAVE A COPY OF THE
CONFIGURATION TABLE, MAKE A COPY.
ANSWER THE QUESTION 'YES'.

01 = PRINT TABLE
TO PRINT OR DISPLAY TABLE.
02 = DELETE
TO DELETE ENTRY FROM TABLE.
03 = CHANGE
TO CHANGE AN ENTRY IN TABLE.
04 = ALTERNATE CONSOLE
TO CHANGE CONSOLE.
05 = TERMINATE
TO TERMINATE THE PROGRAM.
06 = PROCESSING UNIT TYPE
ENTER PROCESSING UNIT TYPE.
07 = TWO CHANNEL SWITCH
ADD TWO CHANNEL SWITCH ENTRY
08 = STORAGE SIZE
TO ENTER THE STORAGE SIZE.
09 = PRINT SYSTEM EQUIPMENT
LIST DEVICE ADDRESSES,
DEVICE NAMES, READ ID'S
0A = ADD
TO ADD AN ENTRY TO TABLE.
0B = BYPASS OPTION TABLE
BYPASS PRINT/DISPLAY TABLE
0C = CONFIGURE SYSTEM
TO CONFIGURE SYSTEM USING
THE CONFIGURATION PROGRAM.
0D = DISKETTE WRITE
TO WRITE TABLE ON DISKETTE.
0E = OEMI
ADD AN OEMI ENTRY IN TABLE.
0F = FLOATING POINT
TO ADD FLOATING POINT ENTRY.
10 = COMBINE
COMBINE CONFIGURATION TABLE.
20 = PRINT DISKETTE TABLE
PRINT TABLE FROM NO IPL DISK

DO YOU WANT TO PRINT/DISPLAY
TABLE?

Y N
| |
| |
|
1
6 3
4 7
B B
C D

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B PRINTER/DISPLAY WITH
T
3 OR WITHOUT KEYBOARD
9
PAGE 40 OF 192

|
|
106
YOU CAN COMBINE A CONFIGURATION
TABLE FROM A DISKETTE TO THE
CONFIGURATION TABLE ON THE BASIC
DISKETTE. ONE DISKETTE MUST
ALWAYS BE THE BASIC DISKETTE.

DO YOU WANT TO COMBINE TWO
CONFIGURATION TABLES?

Y N

|
| 107
| - SEE IF YOU WANT TO WRITE THE
| TABLE TO DISKETTE.

| DO YOU WANT TO WRITE THE
| CONFIGURATION TABLE TO THE
| DISKETTE?

Y N

|
| 108
| - SEE IF YOU WANT TO
| TERMINATE THE PROGRAM.

| DO YOU WANT TO TERMINATE THE
| CONFIGURATION PROGRAM?

Y N

|
| 109
| YOU CAN PRINT OR DISPLAY
| THE CONFIGURATION TABLE
| FROM ANY DIAGNOSTIC
| DISKETTE.

| DO YOU WANT TO PRINT OR
| DISPLAY A CONFIGURATION
| TABLE?

Y N

|
|
|
|
|
|
|
|
|
|
|

5 4 4 4 4
3 5 3 1 1
B B B B B
U V W X Y

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B B PRINTER/DISPLAY WITH
X Y
4 4 OR WITHOUT KEYBOARD
0 0

MAP 3881-41

PAGE 41 OF 192

| |
| |
| 110

| - ENTER ON CONSOLE:

- USING PROGRAMMER CONSOLE:

| FOX ENTER/RETURN KEY
| OX = FUNCTION

(B) 1F (I)
(B) 0X00 (I) (I)

| - FOLLOW DIRECTIONS ON CONSOLE.
| GO TO PAGE 36, STEP 094,
| ENTRY POINT OT.

111
(ENTRY POINT DE)

YOU WANT TO PRINT OR DISPLAY A
CONFIGURATION TABLE FROM A
DIAGNOSTIC DISKETTE. THE
DISKETTE DOES NOT HAVE TO BE A
BASIC DISKETTE.

- ENTER ON CONSOLE:

- USING PROGRAMMER CONSOLE:

F20 ENTER/RETURN KEY
20 = PRINT TABLE

(B) 1F (I)
(B) 2000 (I) (I)

AT THE CONSOLE MESSAGE:

ENTER 01 WHEN FROM DISKETTE IS
LOADED

- OPEN THE DISKETTE UNIT.
- REMOVE THE BASIC DISKETTE.
- INSERT THE 'FROM' DISKETTE.
- CLOSE THE DISKETTE UNIT.

IS THE ACTION COMPLETE?

Y N

| 112
| - COMPLETE THE ACTION AND
| CONTINUE ON THE YES LEG.

4
2
B
Z

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MAP 3881-41

B
Z
4
1

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 42 OF 192

|
|

113

- ENTER ON CONSOLE:

- USING PROGRAMMER CONSOLE:

F01 ENTER/RETURN KEY
01 = FROM DISKETTE LOADED

(B) 1F (I)
(B) 0100 (I) (I)

- WAIT ONE MINUTE.

THE CONFIGURATION TABLE FROM THE
'FROM' DISKETTE WILL PRINT OR
DISPLAY.

AT THE CONSOLE MESSAGE:

ENTER 01 WHEN BASIC DISKETTE IS
LOADED

- OPEN THE DISKETTE UNIT.
- REMOVE THE 'FROM' DISKETTE.
- INSERT THE BASIC DISKETTE.
- CLOSE THE DISKETTE UNIT.

IS THE ACTION COMPLETE?

Y N

|

| 114

| - COMPLETE THE ACTION AND
| CONTINUE ON THE YES LEG.

|

115

- ENTER ON CONSOLE:

- USING PROGRAMMER CONSOLE:

F01 ENTER/RETURN KEY
01 = BASIC DISKETTE LOADED

(B) 1F (I)
(B) 0100 (I) (I)

DO YOU WANT TO PRINT OR DISPLAY
ANOTHER TABLE?

Y N

|

| 116

| GO TO PAGE 36, STEP 094,
| ENTRY POINT OT.

|

|

|

4

3

C

A

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C
B
4
3

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 44 OF 192

MAP 3881-44

|
|
120
YOU HAVE MADE CHANGES TO THE
CONFIGURATION TABLE. IF YOU
TERMINATE THE PROGRAM NOW, ALL
CHANGES AND ADDITIONS WILL BE
LOST. IF YOU WANT TO WRITE THE
CONFIGURATION TABLE TO THE
DISKETTE, ANSWER THE QUESTION
'YES'.

DO YOU WANT TO WRITE THE TABLE TO
THE DISKETTE?

Y N

|
| 121
- ENTER ON KEYBOARD:
F05 ENTER/RETURN KEY
05 = TERMINATE
ALL ADDITIONS AND CHANGES ARE
LOST. THE CONFIGURATION
PROGRAM IS TERMINATED.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0500 (I) (I)

| - RETURN TO THE MAP THAT SENT
| YOU HERE.

122
GO TO PAGE 45, STEP 123,
ENTRY POINT WD.

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MAP 3881-44

B PRINTER/DISPLAY WITH
V
4 OR WITHOUT KEYBOARD
0
PAGE 45 OF 192

MAP 3881-45

|
|
123
(ENTRY POINT WD)

- ENTER ON KEYBOARD:

F0D ENTER/RETURN KEY
OD = WRITE DISKETTE

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0D00 (I) (I)

- WAIT ONE MINUTE.
- SEE IF YOU HAVE CHANGED ANY OF
THE FOLLOWING:

THE STORAGE SIZE.
THE PROCESSING UNIT TYPE.
THE FLOATING POINT ENTRY.

IF YOU HAVE CHANGED ANY OF THE
ABOVE, ANSWER THE FOLLOWING
QUESTION 'YES'.

HAVE YOU CHANGED ANY OF THE ABOVE
USING THIS MAP?

Y N
|
| 124

| - ENTER ON KEYBOARD:

| F05 ENTER/RETURN KEY
| 05 = TERMINATE
| GO TO PAGE 46, STEP 127,
| ENTRY POINT WE.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0500 (I) (I)

125
- SEE THE BASIC CONSOLE.
- PRESS THE LOAD PUSHBUTTON.
- WAIT ONE MINUTE.

IS THE ACTION COMPLETE?

Y N
| |
| |
| |
| |

4 4
6 6
C C
C D

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MAP 3881-45

C PRINTER/DISPLAY WITH
F
4 OR WITHOUT KEYBOARD
6
 PAGE 47 OF 192

MAP 3881-47

|
|
128
- SEE CONSOLE MESSAGE:

OPTION TABLE
01 = PRINT TABLE
02 = DELETE
03 = CHANGE
04 = ALTERNATE CONSOLE
05 = TERMINATE
06 = PROCESSING UNIT TYPE
07 = TWO CHANNEL SWITCH
08 = STORAGE SIZE
09 = PRINT SYSTEM EQUIPMENT
0A = ADD
0B = BYPASS OPTION TABLE
0C = CONFIGURE SYSTEM
0D = DISKETTE WRITE
0E = OEMI
0F = FLOATING POINT
10 = COMBINE
20 = PRINT TABLE FROM A DISKETTE
FUNCTION
ENTER

IS THIS MESSAGE ON THE CONSOLE?

Y N
|
| 129
| - SEE CONSOLE MESSAGE:
|
| RDY
| ENTER

IS THIS MESSAGE ON THE CONSOLE?

Y N

4 4 4
8 8 8
C C C
G H J

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MAP 3881-47

C C C
G H J
4 4 4
7 7 7

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 48 OF 192

MAP 3881-48

130

PT
ENTER

- ENTER ON KEYBOARD:

B38F0 ENTER/RETURN KEY
38F0 = CONFIGURATION
 PROGRAM

- USING PROGRAMMER CONSOLE:

(B) B (I)
(B) 38F0 (I) (I)

- WAIT FOR THE CONFIGURATION
PROGRAM 38F0 TO LOAD.
GO TO PAGE 46, STEP 127,
ENTRY POINT WE.

131

- ENTER ON KEYBOARD:

B38F0 ENTER/RETURN KEY
38F0 = CONFIGURATION
 PROGRAM

- USING PROGRAMMER CONSOLE:

(B) B (I)
(B) 38F0 (I) (I)

- WAIT FOR THE CONFIGURATION
PROGRAM 38F0 TO LOAD.
GO TO PAGE 46, STEP 127,
ENTRY POINT WE.

132

- SEE IF THE UPDATED
CONFIGURATION TABLE HAS BEEN
PRINTED OR DISPLAYED.

HAS THE UPDATED TABLE BEEN
PRINTED OR DISPLAYED?

Y N

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

4 4
9 9
C C
K L

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MAP 3881-48

C C PRINTER/DISPLAY WITH
K L
4 4 OR WITHOUT KEYBOARD
8 8

PAGE 49 OF 192

MAP 3881-49

| |
| |
| 133

- ENTER ON KEYBOARD:
F01 ENTER/RETURN KEY
01 = PRINT TABLE
- WAIT FOR THE CONFIGURATION
TABLE TO PRINT OR DISPLAY.
- CONTINUE IN THE YES COLUMN.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

134
- SEE IF ALL DEVICE DATA IS
ENTERED IN THE TABLE. ENSURE
THE FOLLOWING, IF INSTALLED,
HAVE THE CORRECT DEVICE DATA IN
THE ENTRY IN THE TABLE:

COMMUNICATIONS.
4987 COMMUNICATION SYSTEM.
7900 TWO CHANNEL SWITCH.
MFA ATTACHMENTS.
52X1 DISPLAY ATTACHMENTS.
5200 PRINTER ATTACHMENTS.
TYPE CODE (BYTE 01) FOR ANY RPQ
DEVICE EXCEPT THE 4978 DISPLAY.

- SEE THE CONFIGURATION TABLE
ENTRY DESCRIPTIONS IN:

1. MAP PROLOGS PARAGRAPH 5.1.
2. CONFIGURATION DESCRIPTION, MAP
3880

IS THE CONFIGURATION TABLE
CORRECT?

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

5 5
0 0
C C
M N

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MAP 3881-49

C C
M N
4 4
9 9

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 50 OF 192

MAP 3881-50

| |
| |
| 135
| THE CONFIGURATION TABLE IS NOT
| CORRECT.
|
| - SEE THE ACTION YOU MUST TAKE
| TO CORRECT THE TABLE.
| GO TO PAGE 36, STEP 094,
| ENTRY POINT OT.

136
- SEE IF THERE ARE OTHER
DISKETTES TO BE WRITTEN WITH
THE UPDATED CONFIGURATION
TABLE.

ARE THERE OTHER DISKETTES TO
WRITE?
Y N

| 137
| GO TO PAGE 43, STEP 118,
| ENTRY POINT TM.

5
1
C
P

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MAP 3881-50

C PRINTER/DISPLAY WITH
P
5 OR WITHOUT KEYBOARD
0
 PAGE 51 OF 192

MAP 3881-51

|
|
138
(ENTRY POINT RD)

THE CONFIGURATION TABLE IS
CORRECT. IT MUST NOW BE WRITTEN
TO ALL THE OTHER DISKETTES WITH
THE SYSTEM, INCLUDING:

1. THE SYSTEM TEST DISKETTE.
2. ALL RPQ DISKETTES.
3. ALL OTHER DISKETTES.

- OPEN THE DISKETTE UNIT.
- REMOVE THE DISKETTE.
- INSERT DISKETTE TO BE WRITTEN.
- CLOSE THE DISKETTE UNIT.

- ENTER ON KEYBOARD:

FOD ENTER/RETURN KEY
OD = WRITE DISKETTE

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) OD00 (I) (I)

AT THE CONSOLE MESSAGE:

WRITE CONFIGURATION TABLE ON
OTHER DISKETTE
OD=WRITE DISKETTE, O5=TERMINATE
ENTER

- SEE IF THERE ARE OTHER
DISKETTES TO BE WRITTEN.

ARE THERE OTHER DISKETTES TO
WRITE?

Y N

|
| 139
| GO TO PAGE 43, STEP 118,
| ENTRY POINT TM.
|
|
|
|

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MAP 3881-51

5
2
C
Q

C C PRINTER/DISPLAY WITH
E Q
4 5 OR WITHOUT KEYBOARD
6 1
 PAGE 52 OF 192

MAP 3881-52

| |
| |
| 140
| (ENTRY POINT WC)
|
| - OPEN THE DISKETTE.
| - REMOVE THE DISKETTE.
| - INSERT DISKETTE TO BE
| WRITTEN.
| - CLOSE THE DISKETTE.
|
- ENTER ON KEYBOARD:
F0D ENTER/RETURN KEY
OD = WRITE DISKETTE
- WAIT ONE MINUTE.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0D00 (I) (I)

| IS THIS THE LAST DISKETTE TO
| WRITE?
| Y N
| |
| | 141
| | GO TO STEP 140,
| | ENTRY POINT WC.
| |
| 142
| GO TO PAGE 43, STEP 118,
| ENTRY POINT TM.
|
143

THE CONFIGURATION TABLE IS NOT
CORRECT.

- ENTER ON KEYBOARD:

F02 ENTER/RETURN KEY
02 = PRINT ALL ERRORS
- SEE THE ACTION YOU MUST TAKE TO
CORRECT THE TABLE.
GO TO PAGE 36, STEP 094,
ENTRY POINT OT.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0200 (I) (I)

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MAP 3881-52

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

AT THE CONSOLE MESSAGE:

ENTER 01 WHEN BASIC DISKETTE IS
LOADED

- OPEN THE DISKETTE UNIT.
- REMOVE THE 'FROM' DISKETTE.
- INSERT THE BASIC DISKETTE.
- CLOSE THE DISKETTE UNIT.

IS THE ACTION COMPLETE?
Y N
|
| 147
| COMPLETE THE ACTION AND
| CONTINUE IN THE 'YES' COLUMN
|

148
- ENTER ON KEYBOARD:

F01 ENTER/RETURN KEY
01 = BASIC DISKETTE LOADED

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

- WAIT ONE MINUTE.

THE CONFIGURATION TABLES ARE
COMBINED ON THE BASIC DISKETTE.

- SEE CONSOLE MESSAGE:

ERROR - ENTRIES DO NOT COMPARE

IS THIS MESSAGE ON THE CONSOLE?
Y N
| |
| |
| |
| |

5 5
5 5
C C
S T

C C PRINTER/DISPLAY WITH
S T
5 5 OR WITHOUT KEYBOARD
4 4

MAP 3881-55

PAGE 55 OF 192

| |
| |
| 149
| THE CONFIGURATION TABLES ARE
| COMBINED.
| GO TO PAGE 51, STEP 138,
| ENTRY POINT RD.
|

150
AN ENTRY IN THE 'FROM' DISKETTE
TABLE IS THE SAME AS AN ENTRY IN
THE 'TO' (BASIC) DISKETTE TABLE,
BUT THE DEVICE DATA IS NOT THE
SAME. THE 'TO' (BASIC) ENTRY WAS
USED IN THE COMBINED
CONFIGURATION TABLE.
TO ENSURE THE NEW (COMBINED)
CONFIGURATION TABLE ON THE BASIC
DISKETTE IS CORRECT, SEE IF THE
'TO' ERROR(S) IS THE ENTRY YOU
WANT IN THE COMBINED
CONFIGURATION TABLE.

IS THE 'TO' ERROR(S) ENTRY
CORRECT?

Y N

|
| 151
| THE ERROR ENTRY MUST BE
| CORRECTED.
| GO TO PAGE 36, STEP 094,
| ENTRY POINT OT.
|

152
GO TO PAGE 46, STEP 127,
ENTRY POINT WE.

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MAP 3881-55

B
S
3
9

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 56 OF 192

MAP 3881-56

|
|
153
(ENTRY POINT TC)

- SEE THE NOTE -->

NOTE ALL ATTACHMENT OR DEVICE CARD(S) THAT ARE INSTALLED IN THE SAME BOARD AS THE TWO CHANNEL SWITCH CARD. NOTE ALL ATTACHMENT OR DEVICE CARD(S) THAT ARE INSTALLED OUTBOARD OF THE TWO CHANNEL SWITCH, IN AN EXPANSION BOARD. NOTE THE ENTRY NUMBER IN THE CONFIGURATION TABLE OF THESE ATTACHMENT OR DEVICE CARD(S). SEE IF THESE CONFIGURATION TABLE ENTRY NUMBERS HAVE BYTE 02 BIT 06 SET 'ON'. THE TWO CHANNEL SWITCH CARD ENTRY MUST HAVE BYTE 02 BIT 06 SET 'OFF' (0).

COMMON I/O

THE I/O ATTACHMENT CARD(S) THAT ARE SHARED 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 CARD. THE I/O ATTACHMENT OR DEVICE CARD(S) CAN BE INSTALLED OUTBOARD OF THE TWO CHANNEL SWITCH BOARD IN ANOTHER EXPANSION BOARD.

THE COMMON I/O ENTRIES IN THE CONFIGURATION TABLE MUST HAVE BYTE 02 BIT 06 SET TO A ONE (1). THE TWO CHANNEL SWITCH ENTRY IN THE CONFIGURATION TABLE MUST HAVE BYTE 02 BIT 06 SET TO A ZERO (0).

THE CONFIGURATION PROGRAM DOES THIS FOR YOU. DETERMINE WHICH ENTRIES IN THE TABLE ARE INSTALLED IN THE COMMON I/O, AS DESCRIBED ABOVE.

SELECT OPTION 07 IN THE CONFIGURATION PROGRAM. ENTER THE ENTRY NUMBER OF ONE OF THE COMMON I/O DEVICES. USE OPTION 07 TO MAKE EACH ENTRY.

DO THESE ENTRIES HAVE THE BIT CORRECT?

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

5 5
8 7
C C
U V

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MAP 3881-56

C PRINTER/DISPLAY WITH
V OR WITHOUT KEYBOARD
5
6 PAGE 57 OF 192

MAP 3881-57

|
|
154
THESE CONFIGURATION TABLE ENTRY
NUMBERS MUST BE ENTERED WITH THE
TWO CHANNEL SWITCH '07' OPTION,
ONE AT A TIME, UNTIL ALL THE
ENTRIES ARE USED WITH THIS
OPTION. DO NOT DESCRIBE THE TWO
CHANNEL SWITCH CARD ENTRY FROM
THE CONFIGURATION TABLE USING THE
TWO CHANNEL SWITCH '07' OPTION.

- ENTER ON KEYBOARD:

F07 = ENTER/RETURN KEY
07 = TWO CHANNEL SWITCH

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0700 (I) (I)

AT THE CONSOLE MESSAGE:

TWO CHANNEL SWITCH
ENTRY NUMBER
ENTER

- ENTER ON KEYBOARD:

FXX = ENTER/RETURN KEY
XX = ENTRY NUMBER IN TABLE
XX = NEVER THE TWO CHANNEL
SWITCH ENTRY

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) XX00 (I) (I)

IS THERE ANOTHER CONFIGURATION
TABLE ENTRY NUMBER TO ENTER?

Y N

|
| 155
| ALL CONFIGURATION TABLE ENTRIES
| ARE DONE.
| GO TO PAGE 43, STEP 118,
| ENTRY POINT TM.

|
|
|
|
|

5
8
C
W

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MAP 3881-57

B C C PRINTER/DISPLAY WITH
R U W
3 5 5 OR WITHOUT KEYBOARD
9 6 7

MAP 3881-58

PAGE 58 OF 192

| | |
| | |
| | 156
| | THERE ARE MORE CONFIGURATION
| | TABLE ENTRIES TO MAKE.
| | GO TO PAGE 56, STEP 153,
| | ENTRY POINT TC.

| |
| | 157
| | GO TO PAGE 43, STEP 118,
| | ENTRY POINT TM.

158

- ENTER ON KEYBOARD:

FOE ENTER/RETURN KEY
OE = OEMI ENTRY

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) OE00 (I) (I)

AT THE CONSOLE MESSAGE:

ADDRESS
ENTER

- ENTER ON KEYBOARD:

FXX ENTER/RETURN KEY
XX = OEMI DEVICE ADDRESS

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) XX00 (I) (I)

THE ENTRY IS WRITTEN IN THE
CONFIGURATION TABLE.

DO YOU WANT TO 'WRITE' BITS IN
THE OEMI ENTRY?

Y N

| |
| | 159
| | ARE ALL CONFIGURATION ERRORS
| | CORRECTED?

| | Y N

| |
| | 160
| | GO TO PAGE 36, STEP 094,
| | ENTRY POINT OT.

| |
| |
| |

5 5
9 9
C C
X Y

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MAP 3881-58

B C C PRINTER/DISPLAY WITH
Q X Y
3 5 5 OR WITHOUT KEYBOARD
9 8 8
PAGE 59 OF 192

MAP 3881-59

| | |
| | |
| | 161
| | GO TO PAGE 43, STEP 118,
| | ENTRY POINT TM.
| |
| 162
| GO TO PAGE 71, STEP 193,
| ENTRY POINT MD.
|
163

- ENTER ON KEYBOARD:

- USING PROGRAMMER CONSOLE:

FOF ENTER/RETURN KEY
OF = FLOATING POINT

(B) 1F (I)
(B) 0F00 (I) (I)

THE ENTRY IS WRITTEN IN THE
CONFIGURATION TABLE.

ARE ALL THE CONFIGURATION
ERROR(S) CORRECTED?

Y N

|
| 164
| GO TO PAGE 36, STEP 094,
| ENTRY POINT OT.

|
165
GO TO PAGE 43, STEP 118,
ENTRY POINT TM.

B
P
3
9
PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 60 OF 192

MAP 3881-60

|
|
166

YOU WANT TO CORRECT OR CHANGE THE
PROCESSING UNIT TYPE. SEE THE
PROCESSING UNIT INSTALLED ON THE
SYSTEM.

- ENTER ON KEYBOARD:

F06 ENTER/RETURN KEY
06 = PROCESSING UNIT TYPE

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0600 (I) (I)

AT THE CONSOLE MESSAGE:

2X=495X
ENTER

- ENTER THE PROCESSING UNIT TYPE
AS FOLLOWS:

- ENTER ON KEYBOARD:

F2X ENTER/RETURN KEY
 X = 495X PROCESSING UNIT
GO TO PAGE 43, STEP 118,
ENTRY POINT TM.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 2X00 (I) (I)

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MAP 3881-60

B PRINTER/DISPLAY WITH
M
3 OR WITHOUT KEYBOARD
8
PAGE 61 OF 192

MAP 3881-61

|
|
167
(ENTRY POINT SI)

YOU WANT TO CORRECT OR CHANGE THE
STORAGE SIZE. SEE INNER STORAGE
SIZE INSTALLED.

- ENTER ON KEYBOARD:

F08 ENTER/RETURN KEY
08 = STORAGE SIZE

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0800 (I) (I)

AT THE CONSOLE MESSAGE:

INNER STORAGE
03=16K, 07=32K, 0B=48K, 0F=64K
ENTER

- ENTER THE INNER STORAGE SIZE AS
FOLLOWS:

- ENTER ON KEYBOARD:

F0X ENTER/RETURN KEY
03 = 16K INNER STORAGE
07 = 32K INNER STORAGE
0B = 48K INNER STORAGE
0F = 64K INNER STORAGE

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0X00 (I) (I)

- SEE CONSOLE MESSAGE:

ADDRESS TRANSLATOR? 00=NO, 01=YES
ENTER

IS THIS MESSAGE ON THE CONSOLE?

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

6 6
2 2
C D
Z A

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MAP 3881-61

C D PRINTER/DISPLAY WITH
Z A
6 6 OR WITHOUT KEYBOARD
1 1
 PAGE 62 OF 192

MAP 3881-62

| |
| |
| 168
| - SEE CONSOLE MESSAGE:
|
| ENTRY NOT VALID
|
| IS THIS MESSAGE ON THE CONSOLE?
| Y N
| |
| | 169
| | GO TO PAGE 43, STEP 118,
| | ENTRY POINT TM.
| |
| 170
| THE ENTRY MADE BY YOU IS NOT
| VALID.
| GO TO PAGE 61, STEP 167,
| ENTRY POINT SI.
|
171
(ENTRY POINT SO)

- SEE IF AN ADDRESS TRANSLATOR OR
EXPANDER IS INSTALLED.

IS AN ADDRESS TRANSLATOR OR
EXPANDER INSTALLED?

Y N

| 172

- ENTER ON KEYBOARD:
F00 ENTER/RETURN KEY
00 = NOT INSTALLED
GO TO PAGE 43, STEP 118,
ENTRY POINT TM.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0000 (I) (I)

6
3
D
B

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MAP 3881-62

|
 |
 175

- ENTER ON KEYBOARD:

 FOXXX ENTER/RETURN KEY
 XXX = NUMBER 16K OUTER
 STORAGE INSTALLED.

- USING PROGRAMMER CONSOLE:

 (B) 1F (I)
 (B) OXXX (I) (I)

TOTAL STOR. INST.	CONFIGURATION ENTRIES IN 16K BLOCKS	
	INNER STOR.	OUTER STOR.
80K	FOF	F0001
96K	FOF	F0002
112K	FOF	F0003
128K	FOF	F0004
160K	FOF	F0006
192K	FOF	F0008
224K	FOF	F000A
256K	FOF	F000C
384K	FOF	F0014
512K	FOF	F001C
768K	FOF	F002C
1024K	FOF	F003C
1280K	FOF	F004C
1536K	FOF	F005C
1792K	FOF	F006C
2048K	FOF	F007C

- SEE CONSOLE MESSAGE:

ENTRY NOT VALID

 THIS CHART ASSUMES THAT STORAGE
 CARDS ARE INSTALLED CONTINUOUSLY

IS THIS MESSAGE ON THE CONSOLE?

Y N

|
 | 176
 | GO TO PAGE 43, STEP 118,
 | ENTRY POINT TM.
 |
 |
 |

B D PRINTER/DISPLAY WITH
L D
3 6 OR WITHOUT KEYBOARD
8 4

MAP 3881-65

PAGE 65 OF 192

| |
| |
| 177
| THE ENTRY MADE BY YOU IS NOT
| VALID.
| GO TO PAGE 62, STEP 171,
| ENTRY POINT SO.

178
- SELECT THE ALTERNATE CONSOLE IN
TABLE.

AN ALTERNATE CONSOLE IS:	MAP/ TYPE	AA TT
4973 PRINTER	6800	AA68
4974 PRINTER	6400	AA64
5200 PRINTERS	6A00	AA6A
MULTIFUNCTION	E600	AAE6
3101-7485-4975		
3101 RPQ D02350	81F0	AA81
3101 ACCA SL	E800	AAE8
3101 ACCA ML	E900	AAE9
3101 FPMLC	EA00	AAEA
4978	4500	AA45
4979	4400	AA44
4980	F900	AAF9
7485 RPQ D02350	81FX	AA81
TTY ATTACHMENT %	4000	AA40
5251/5291	E400	AAE4

DID YOU SELECT THE CONSOLE?

Y N

| 179
| - SELECT THE CONSOLE IN TABLE
| AND CONTINUE ON YES LEG.

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MAP 3881-65

6
6
D
E

D PRINTER/DISPLAY WITH
E OR WITHOUT KEYBOARD
6
5
PAGE 66 OF 192

180

- ENTER ON KEYBOARD:

F04 ENTER/RETURN KEY
04 = ALTERNATE CONSOLE

- USING PROGRAMMER CONSOLE:

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

AT THE CONSOLE MESSAGE:

ALTERNATE CONSOLE DEVICE ADDRESS
AND TYPE
ENTER

- ENTER ON KEYBOARD:

FAATT ENTER/RETURN KEY
TT = DEVICE TYPE
AA = DEVICE ADDRESS

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) AATT (I) (I)

THE ALTERNATE CONSOLE IS
ASSIGNED.

FUNCTION
ENTER

IS THIS MESSAGE ON THE CONSOLE?

Y N

181

- SEE CONSOLE MESSAGE:

00 = 3101 DISPLAY
01 = 7485 MODEL 53 DISPLAY
02 = 7485 MODEL 63 DISPLAY
03 = 4975 MODEL 01L PRINTER
04 = 4975 MODEL 02L PRINTER

IS THIS MESSAGE ON THE CONSOLE?

Y N

7 7 6
0 0 7
D D D
F G H

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MAP 3881-66

D PRINTER/DISPLAY WITH
H
6 OR WITHOUT KEYBOARD
6
PAGE 67 OF 192

MAP 3881-67

182
- SEE CONSOLE MESSAGE:

IDSA STATION ADDRESS = XY?
X = CABLE ADDRESS (0 - 3)
Y = STATION ADDRESS (0 - 6)

IS THIS MESSAGE ON THE CONSOLE?
Y N

183
- SEE CONSOLE MESSAGE:

5200 SERIES PRINTER ADDRESS =
0X

IS THIS MESSAGE ON THE CONSOLE?
Y N

184
- SEE CONSOLE MESSAGE:
PORT/LINE SPEED/TERMINAL ADDRESS = ZYXX
Z = PORT ADDRESS 0 - 1
Y = LINE SPEED 0= 100K
1= 250K
2= 500K
XX = TERMINAL ADDRESS

IS THIS MESSAGE ON THE
CONSOLE?
Y N

185
GO TO PAGE 36,
STEP 094,
ENTRY POINT OT.

6 6 6
9 8 8
D D D
J K L

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MAP 3881-67

D D PRINTER/DISPLAY WITH
K L
6 6 OR WITHOUT KEYBOARD
7 7
PAGE 68 OF 192

MAP 3881-68

| |
| |
| 186

| A 4980 DISPLAY IS INSTALLED ON
| THE SYSTEM AND YOU WANT TO
| ASSIGN IT AS THE ALTERNATE
| CONSOLE.

| - ENTER ON KEYBOARD:

| FZYXX ENTER/RETURN

| Z = PORT ADDRESS 0 - 1
| Y = LINE SPEED 0 = 100K
| 1 = 250K
| 2 = 500K

| XX = TERMINAL ADDRESS

| GO TO PAGE 36, STEP 094,
| ENTRY POINT OT.

| 187

THE ENTRY IS COMPLETE,
A 5200 PRINTER IS INSTALLED ON
THE SYSTEM AND YOU WANT TO ASSIGN
IT AS THE ALTERNATE CONSOLE.

- ENTER ON KEYBOARD:

FOX ENTER/RETURN KEY

WHERE X = PAAA

P = PORT NUMBER 0 - 1

AAA = PRINTER ADDRESS 0 - 6

GO TO PAGE 36, STEP 094,
ENTRY POINT OT.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) ZYXX (I) (I)

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0X00 (I) (I)

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MAP 3881-68

D PRINTER/DISPLAY WITH
J
6 OR WITHOUT KEYBOARD
7

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MAP 3881-69

|
|
188
A 52X1 IS INSTALLED ON THE SYSTEM
AND YOU WANT TO ASSIGN IT AS THE
ALTERNATE CONSOLE.

- ENTER ON KEYBOARD:

FX00 ENTER/RETURN KEY
 X = CABLE ADDRESS 0-3
 Y = STATION ADDRESS 0-6

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) XY00 (I) (I)

- SEE CONSOLE MESSAGE

ENTRY NOT VALID
ENTER

IS THIS MESSAGE ON THE CONSOLE?

Y N

|
| 189
| THE ENTRY IS COMPLETE,
| GO TO PAGE 36, STEP 094,
| ENTRY POINT OT.

|
190
ENTRY NOT VALID.

THE ENTRY MUST BE AS FOLLOWS:

X = CABLE ADDRESS (0 - 3)
Y = STATION ADDRESS (0 - 6)
ENTER 'XY' CORRECTLY. WHEN DONE,
GO TO PAGE 36, STEP 094,
ENTRY POINT OT.

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MAP 3881-69

D D PRINTER/DISPLAY WITH
F G
6 6 OR WITHOUT KEYBOARD
6 6
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MAP 3881-70

| |
| |
| 191

| - ENTER ON KEYBOARD:

| -----
| FOX ENTER/RETURN KEY
| 00 = 3101 DISPLAY
| 01 = 7485 MODEL 53 DISPLAY
| 02 = 7485 MODEL 63 DISPLAY
| 03 = 4975 MODEL 01L PRINTER
| 04 = 4975 MODEL 02L PRINTER

| GO TO PAGE 36, STEP 094,
| ENTRY POINT OT.

| 192
| THE ENTRY IS COMPLETE,
| GO TO PAGE 36, STEP 094,
| ENTRY POINT OT.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0X00 (I) (I)

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MAP 3881-70

B
K
3
8

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 71 OF 192

MAP 3881-71

|
|
193
(ENTRY POINT MD)
- SEE THE TABLE FOR
ATTACHMENT/DEVICE TO BE
CHANGED.

ADDRESS	TYPE	IDID	FEATURE NUMBER	DESCRIPTION
00	01	0EOF		
00	3D	0000	392X	FLOATING POINT
XX	3E	0030	7900	2 CHANNEL SWITCH
XX	3F	003C	7777	PROGRAMMABLE TCS
XX	40	0010	7850	TTY ATTACHMENT
XX	41	320E	1400	SERIES/1 LINK
XX	44	0406	4979	DISPLAY STATION
XX	45	040E	4978	DISPLAY STATION
XX	48	0106	4964	DISKETTE
XX	4A	0126	4966	DISKETTE
XX	4B	5212	4965	DISKETTE4952/4/6C
XX	4D	5112	4965	DISKETTE4952/4/6D
				4965D/4956-60E
XX	50	0028	7840	TIMER
XX	58	3X86	4969	TAPE UNIT
XX	59	0102	4968	TAPE UNIT
XX	64	0206	4974	PRINTER
XX	68	0306	4973	PRINTER
XX	6A	2X2E	5200	SERIES PTR ATT.
XX	78	00XA	4962	DISK
XX	79	00X2	4962	DISK
XX	7A	3X06	4963	DISK
XX	7B	3X16	4967	DISK
XX	7C	3X26	4965	DISK 4956D
				4965D/4956-60E
XX	81	2X36	3101	DISPLAY
XX	9X	XXXX	RPQ	ANY RPQ DEVICE

ADDRESS	TYPE	IDID	FEATURE NUMBER	DESCRIPTION
00	01	0EOF		
XX	A3	8000	5430	OEMI ATTACHMENT
XX	A4	80YY	4982	SENSOR I/O
XX	A8	8020	1060	AI, NO AMPLIFIER
XX	A8	8028	1070	AI, W/AMPLIFIER
XX	A8	8030	4940	AI, RELAY
XX	A8	8038	4950	AI, SS
XX	A8	8040	1065	AO
XX	B0	8008	3530	DI ISOLATED
XX	B0	8010	3525	DI NOT ISOLATED
XX	B4	8018	3535	DO
XX	D8	4002	1200	370 CHANNEL ATT
XX	E0	2X1E	4987	4987 SUBSYSTEM
XX	E1	2X1E	4987	4987 ATTACHMENT
XX	E4	0416	525X	DISPLAY SYSTEM
XX	E6	3X36	1310	MULTIFUNCTION
XX	E8	100E	1610	ACCA
XX	E9	2X0E	2092	ACCAML
XX	EA	2X16	2095	FPMLC
XX	EB	2X12	7880	TELEPHONE COMM.
XX	F0	1006	2074	BSCS M.S. H.S.
XX	F1	2X06	2094	BSCAML
XX	F8	1016	2090	SDLC M.S.
XX	F9	2X3E	1250	WORK STATION
XX	FC	5042	2080	SCLC

NEW PRODUCT - SEE PRODUCT PROLOG

DID YOU FIND YOUR ENTRY?

Y N
| |
| |
| |
| |

7 7
2 2
D D
M N

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MAP 3881-71

D D PRINTER/DISPLAY WITH
M N
7 7 OR WITHOUT KEYBOARD
1 1
PAGE 72 OF 192

| |
| |
| 194
| - SEE THE PROLOG FOR DEVICE AND
| CONTINUE ON YES LEG.
|
195
TO CORRECT THE CONFIGURATION
TABLE:

- ENTER ON KEYBOARD:

F03 ENTER/RETURN KEY
03 = CHANGE

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0300 (I) (I)

AT THE CONSOLE MESSAGE:

CHANGE
ENTRY NUMBER
ENTER

- ENTER ON KEYBOARD:

FXX ENTER/RETURN KEY
XX = ENTRY NUMBER TO CHANGE

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) XX00 (I) (I)

AT THE CONSOLE MESSAGE:

AATT.....IDID

- ENTER ON KEYBOARD:

FAATT...IDID ENTER/RETURN KEY

- USING PROGRAMMER CONSOLE:

(B) XF (I)
(B) YYYY (I)
(B) ZZZZ (I) (I)
X = NUMBER OF WORDS
YYYY = ENTRY WORDS
ZZZZ = LAST WORD

MAKE THE ENTRY UP TO AND
INCLUDING THE WORD TO BE CHANGED.
THE CONFIGURATION PROGRAM WILL
NOT CHANGE THE REMAINDER OF THE
ENTRY. IT WILL REMAIN THE SAME.

ARE ALL CONFIGURATION ERRORS
CORRECTED?

Y N
| |
| |
| |

7 7
3 3
D D
P Q

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B D D PRINTER/DISPLAY WITH
J P Q
3 7 7 OR WITHOUT KEYBOARD
8 2 2

MAP 3881-73

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| | |
| | |
| | 196
| | GO TO PAGE 36, STEP 094,
| | ENTRY POINT OT.

| |
| 197
| GO TO PAGE 43, STEP 118,
| ENTRY POINT TM.

198
(ENTRY POINT DL)

- ENTER ON KEYBOARD:

F02 ENTER/RETURN KEY
 02 = DELETE

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0200 (I) (I)

AT THE CONSOLE MESSAGE:

DELETE
ENTRY NUMBER
ENTER

- ENTER ON KEYBOARD:

FXX ENTER/RETURN KEY
 XX = ENTRY NUMBER TO DELETE

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) XX00 (I) (I)

ARE ALL OF THE CONFIGURATION
ERROR(S) CORRECTED?

Y N
|
| 199
| GO TO PAGE 36, STEP 094,
| ENTRY POINT OT.

|
200
GO TO PAGE 43, STEP 118,
ENTRY POINT TM.

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MAP 3881-73

201
(ENTRY POINT AD)
- SEE THE TABLE FOR
ATTACHMENT/DEVICE TO BE ADDED.

ADDRESS	TYPE	IDID	FEATURE NUMBER	DESCRIPTION
00 01 0EOF				
00 3D 0000 392X				FLOATING POINT
XX 3E 0030 7900				2 CHANNEL SWITCH
XX 3F 003C 7777				PROGRAMMABLE TCS
XX 40 0010 7850				TTY ATTACHMENT
XX 41 320E 1400				SERIES/1 LINK
XX 44 0406 4979				DISPLAY STATION
XX 45 040E 4978				DISPLAY STATION
XX 48 0106 4964				DISKETTE
XX 4A 0126 4966				DISKETTE
XX 4B 5212 4965				DISKETTE4952/4/6C
XX 4D 5112 4965				DISKETTE4952/4/6D
				4965D/4956-60E
XX 50 0028 7840				TIMER
XX 58 3X86 4969				TAPE UNIT
XX 59 0102 4968				TAPE UNIT
XX 64 0206 4974				PRINTER
XX 68 0306 4973				PRINTER
XX 6A 2X2E 5200				SERIES PTR ATT.
XX 78 00XA 4962				DISK
XX 79 00X2 4962				DISK
XX 7A 3X06 4963				DISK
XX 7B 3X16 4967				DISK
XX 7C 3X26 4965				DISK 4956D
				4965D/4956-60E
XX 81 2X36 3101				DISPLAY
XX 9X XXXX RPQ				ANY RPQ DEVICE

ADDRESS	TYPE	IDID	FEATURE NUMBER	DESCRIPTION
00 01 0EOF				
XX A3 8000 5430				OEMI ATTACHMENT
XX A4 80YY 4982				SENSOR I/O
XX A8 8020 1060				AI, NO AMPLIFIER
XX A8 8028 1070				AI, W/AMPLIFIER
XX A8 8030 4940				AI, RELAY
XX A8 8038 4950				AI, SS
XX A8 8040 1065				AO
XX B0 8008 3530				DI ISOLATED
XX B0 8010 3525				DI NOT ISOLATED
XX B4 8018 3535				DO
XX D8 4002 1200				370 CHANNEL ATT
XX E0 2X1E 4987				4987 SUBSYSTEM
XX E1 2X1E 4987				4987 ATTACHMENT
XX E4 0416 525X				DISPLAY SYSTEM
XX E6 3X36 1310				MULTIFUNCTION
XX E8 100E 1610				ACCA
XX E9 2X0E 2092				ACCAML
XX EA 2X16 2095				FPMLC
XX EB 2X12 7880				TELEPHONE COMM.
XX F0 1006 2074				BSCS M.S. H.S.
XX F1 2X06 2094				BSCAML
XX F8 1016 2090				SDLC M.S.
XX F9 2X3E 1250				WORK STATION
XX FC 5042 2080				SCLC

NEW PRODUCT - SEE PRODUCT PROLOG

DID YOU FIND YOUR ENTRY?

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

7 7
5 5
D D
R S

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MAP 3881-74

D D PRINTER/DISPLAY WITH
R S
7 7 OR WITHOUT KEYBOARD
4 4
 PAGE 75 OF 192

MAP 3881-75

| |
| |
| 202
| - SEE THE PROLOG FOR DEVICE AND
| CONTINUE ON YES LEG.
|

203
- ENTER ON KEYBOARD:

FOA ENTER/RETURN KEY
OA = ADD

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0A00 (I) (I)

AT THE CONSOLE MESSAGE:

AATT XXXX ----- XXXXIDID

- ENTER ON KEYBOARD:

F AATT XXXX -IDID ENTER/RETURN

- USING PROGRAMMER CONSOLE:

(B) XF (I)
(B) YYYY (I)
(B) ZZZZ (I) (I)
 X = NUMBER OF WORDS
 YYYY = ENTRY WORDS
 ZZZZ = LAST WORD

ARE ALL OF THE CONFIGURATION
ERRORS CORRECTED?

Y N

|
| 204
| GO TO PAGE 36, STEP 094,
| ENTRY POINT OT.
|

205
GO TO PAGE 43, STEP 118,
ENTRY POINT TM.

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MAP 3881-75

D
T
7
6

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 77 OF 192

MAP 3881-77

|
|
208

- SELECT THE ALTERNATE CONSOLE
FROM TABLE.

AN ALTERNATE CONSOLE IS:	MAP/ TYPE	AA TT
4973 PRINTER	6800	AA68
4974 PRINTER	6400	AA64
5200 PRINTERS	6A00	AA6A
MULTIFUNCTION 3101-7485-4975	E600	AAE6
3101 RPQ D02350	81F0	AA81
3101 ACCA SL	E800	AAE8
3101 ACCA ML	E900	AAE9
3101 FPMLC	EA00	AAEA
4978	4500	AA45
4979	4400	AA44
4980	F900	AAF9
7485 RPQ D02350	81FX	AA81
TTY ATTACHMENT %	4000	AA40
5251/5291	E400	AAE4

DID YOU SELECT FROM TABLE?

Y N

|
209

- MAKE THE SELECTION AND
CONTINUE ON YES LEG.

|
7
8
D
U

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MAP 3881-77

D PRINTER/DISPLAY WITH
U
7 OR WITHOUT KEYBOARD
7
PAGE 78 OF 192

MAP 3881-78

210

- ENTER ON KEYBOARD:

FAATT ENTER/RETURN KEY
TT = DEVICE TYPE
AA = DEVICE ADDRESS

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) AATT (I) (I)

DID YOU ASSIGN A 4979/4978 AS THE
ALTERNATE CONSOLE?

Y N

211

- SEE CONSOLE MESSAGE:

00 = 3101 DISPLAY
01 = 7485 MODEL 53 DISPLAY
02 = 7485 MODEL 63 DISPLAY
03 = 4975 MODEL 01L PRINTER
04 = 4975 MODEL 02L PRINTER

IS THIS MESSAGE ON THE CONSOLE?

Y N

212

- SEE CONSOLE MESSAGE:

IDSA STATION ADDRESS = XY?
X = CABLE ADDRESS (0 - 3)
Y = STATION ADDRESS (0 - 6)

IS THIS MESSAGE ON THE
CONSOLE?

Y N

8 8 8 7
2 2 1 9
D D D D
V W X Y

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MAP 3881-78

D PRINTER/DISPLAY WITH
Y OR WITHOUT KEYBOARD
7
8
PAGE 79 OF 192

MAP 3881-79

213

- SEE CONSOLE MESSAGE:

5200 SERIES PRINTER
ADDRESS = 0X

IS THIS MESSAGE ON THE CONSOLE?

Y N

214

- SEE CONSOLE MESSAGE:

PORT/LINE SPEED/TERMINAL ADDRESS = ZYXX

Z = PORT ADDRESS 0 - 1

Y = LINE SPEED 0= 100K

1= 250K

2= 500K

XX = TERMINAL ADDRESS

IS THIS MESSAGE ON THE CONSOLE?

Y N

215

GO TO PAGE 82, STEP 222,

ENTRY POINT SC.

8 8
0 0
D E
Z A

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MAP 3881-79

D E PRINTER/DISPLAY WITH
Z A
7 7 OR WITHOUT KEYBOARD
9 9

PAGE 80 OF 192

MAP 3881-80

| |
| |
| 216

| A 4980 DISPLAY IS INSTALLED ON
| THE SYSTEM AND YOU WANT TO
| ASSIGN IT AS THE ALTERNATE
| CONSOLE.

| - ENTER ON KEYBOARD:

| -----
| FZYXX ENTER/RETURN
| Z = PORT ADDRESS 0 - 1
| Y = LINE SPEED 0 = 100K
| 1 = 250K
| 2 = 500K
| XX = TERMINAL ADDRESS

| GO TO PAGE 82, STEP 222,
| ENTRY POINT SC.

| 217

A 5200 PRINTER IS INSTALLED ON
THE SYSTEM AND YOU WANT TO ASSIGN
IT AS THE ALTERNATE CONSOLE.

- ENTER ON KEYBOARD:

FOX ENTER/RETURN KEY
WHERE X = PAAA
P = PORT NUMBER 0 - 1
AAA = PRINTER ADDRESS 0 - 6

GO TO PAGE 82, STEP 222,
ENTRY POINT SC.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) ZYXX (I) (I)

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0X00 (I) (I)

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MAP 3881-80

D PRINTER/DISPLAY WITH
X OR WITHOUT KEYBOARD
7
8
PAGE 81 OF 192

MAP 3881-81

|
|
218
A 52X1 IS INSTALLED ON THE SYSTEM
AND YOU WANT TO ASSIGN IT AS THE
ALTERNATE CONSOLE.

- ENTER ON KEYBOARD:

FOX ENTER/RETURN KEY
X = CABLE ADDRESS 0-3
Y = STATION ADDRESS 0-6

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) XY00 (I) (I)

- SEE CONSOLE MESSAGE:

ENTRY NOT VALID.
ENTER

IS THIS MESSAGE ON THE CONSOLE?

Y N

|
| 219
| THE ENTRY IS COMPLETE,
| GO TO PAGE 82, STEP 222,
| ENTRY POINT SC.

|
220
ENTRY NOT VALID.

THE ENTRY MUST BE AS FOLLOWS:

X = CABLE ADDRESS (0 - 3)
Y = STATION ADDRESS (0 - 6)
ENTER 'XY' CORRECTLY. WHEN DONE,
GO TO PAGE 82, STEP 222,
ENTRY POINT SC.

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MAP 3881-81

E PRINTER/DISPLAY WITH
V OR WITHOUT KEYBOARD
8
8
PAGE 89 OF 192

|
|
234

- WAIT FOR CONFIGURATION TABLE TO
WRITE TO DISKETTE. AT MESSAGE:

WRITE CONFIGURATION TABLE ON
OTHER DISKETTE
0D=WRITE DISKETTE, 05=TERMINATE
ENTER

- ENTER ON KEYBOARD:

F05 ENTER/RETURN KEY
05 = TERMINATE

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0500 (I) (I)

AT THE CONSOLE MESSAGE:

PT
OR
RDY
ENTER

- ENTER ON KEYBOARD:

B38F0 ENTER/RETURN KEY

- USING PROGRAMMER CONSOLE:

(B) B (I)
(B) 38F0 (I) (I)

CONFIGURATION PROGRAM LOADS.

- SEE CONSOLE MESSAGE.

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

IS THE ABOVE MESSAGE ON THE
CONSOLE?

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

9 9
2 0
E E
W X

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E
Y
9
0

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 91 OF 192

MAP 3881-91

|
|

237

THE CONFIGURATION TABLE MUST BE
PRINTED OR DISPLAYED.

- ENTER ON KEYBOARD:

F01 ENTER/RETURN KEY
01 = PRINT/DISPLAY TABLE

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

- WAIT FOR THE CONFIGURATION TABLE TO PRINT OR DISPLAY.
- SEE IF ALL DEVICE DATA IS ENTERED IN THE TABLE.

ENSURE THAT THE FOLLOWING, IF INSTALLED ON THE SYSTEM, HAVE AN ENTRY AND DEVICE DATA, IF ANY, IS CORRECT.

1. COMMUNICATION DEVICE DATA.
2. 4987 SYSTEM DEVICE DATA.
3. 4982 SENSOR I/O (EVEN IF NO FEATURE CARDS INSTALLED).
4. TYPE CODE (BYTE 01) FOR RPQ DEVICE EXCEPT 4978 DISPLAY.
5. MFA DEVICES ATTACHED.
6. 52X1 DISPLAYS ATTACHED.
7. 5200 PRINTERS ATTACHED.

- SEE THE CONFIGURATION TABLE ENTRY DESCRIPTIONS IN:

1. MAP PROLOGS PARAGRAPH 5.1.
2. CONFIGURATION DESCRIPTION MAP 3880

DO YOU WANT TO CHANGE THE CONFIGURATION TABLE OR ADD DEVICE DATA?

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

9 9
2 2
E F
Z A

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MAP 3881-91

E E F PRINTER/DISPLAY WITH
W Z A
8 9 9 OR WITHOUT KEYBOARD
9 1 1

MAP 3881-92

PAGE 92 OF 192

| | |
| | |
| | 238
| | THE CONFIGURATION TABLE IS
| | CORRECT. IT MUST NOW BE
| | WRITTEN TO ALL THE OTHER
| | DISKETTES WITH THE SYSTEM.
| | GO TO PAGE 51, STEP 138,
| | ENTRY POINT RD.

| |
| 239
| - SEE THE CHANGE YOU WANT TO
| MAKE.
| GO TO PAGE 36, STEP 094,
| ENTRY POINT OT.

|
240
GO TO PAGE 12, STEP 025,
ENTRY POINT ER.

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MAP 3881-92

E PRINTER/DISPLAY WITH
U
8 OR WITHOUT KEYBOARD
8
PAGE 93 OF 192

MAP 3881-93

|
|
241
(ENTRY POINT TP)

COMM SYS ENTRY
EN DA DT RID
EE AA TT XXXX
EE AA TT XXXX
SPECIFY CODE
ENTER

- SELECT FEATURE CODE

+-----+ FEATURE CODES FOR THE 4987 PROGRAMMABLE COMMUNICATION +-----+				
CODE	FROM	TO	FROM	TO
4700	8510	8525	8610	8625
4701	8580	8581	8680	8681
4704	8530	8533	8630	8633
4706	8540	8542	8640	8642
4709	8550		8650	
4710	8560		8660	
4713	8570	8573	8670	8673
4716	8590		8690	
4717	8591		8691	
4718	8592		8692	
4719	8593		8693	
4721	8594		8694	
4722	8595		8695	
4723	8596		8696	
4724	8597		8697	

IS FEATURE CODE SELECTED?

Y N

| 242
| - SELECT FEATURE CODE AND
| CONTINUE ON YES LEG.
|
|

TELEPROCESSING IS INSTALLED

- SEE THE MACHINE HISTORY, COMMUNICATION FEATURE NUMBER AND S/1 SERVICE AID THREE (3).
- FIND THE FEATURE NUMBER IN THE SERVICE AID AND SPECIFY CODE IN IT THAT MATCHES THE NUMBER IN MACHINE HISTORY. ENTER THIS NUMBER AS THE 'SPECIFY CODE'.

IF NO SPECIFY CODE IS FOUND, USE JUMPERS ON CARD AND SERVICE AID TO FIND SPECIFY CODE.

IF NO SPECIFY CODE CAN BE DETERMINED, ENTER '0000' AND USE THE 'CHANGE' FUNCTION (03) TO ENTER THE DEVICE DATA FOR THE ENTRY.

9
4
F
B

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MAP 3881-93

F
B
9
3

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 94 OF 192

MAP 3881-94

243

- ENTER SPECIFY CODE.

- ENTER ON KEYBOARD:

FYyyy ENTER/RETURN KEY
Yyyy = SPECIFY CODE

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) Yyyy (I) (I)

- SEE CONSOLE MESSAGE:

SPECIFY CODE NOT KNOWN

IS THIS MESSAGE ON THE CONSOLE?

Y N

244

- SEE CONSOLE MESSAGE:

ERROR - MULTI-LINE CONTROLLER
AREA

IS THIS MESSAGE ON THE CONSOLE?

Y N

245

- SEE CONSOLE MESSAGE:

CONFIGURATION ERROR - MESSAGE

3861

DA DT RID ERROR #

AA TT XXX YY

IS THIS MESSAGE ON THE
CONSOLE?

Y N

1 1 1
0 0 0 9
6 6 6 5
F F F F
C D E F

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MAP 3881-94

F PRINTER/DISPLAY WITH
K
9 OR WITHOUT KEYBOARD
5

PAGE 96 OF 192

MAP 3881-96

|
|
249
(ENTRY POINT PI)

- SEE CONSOLE MESSAGE:

COMM SYS - INTERLOCK SWITCH?
00=OFF, 01=ON

IS THIS MESSAGE ON THE CONSOLE?

Y N

|
| 250
| (ENTRY POINT PB)

| - SEE CONSOLE MESSAGE:

| COMM SYS - BITS PER SECOND
| SWITCH?
| 01=0600
| 02=1200
| 03=2400
| 04=4800
| 05=9600

| IS THIS MESSAGE ON THE CONSOLE?

| Y N

|
| 251
| (ENTRY POINT PR)

| - SEE CONSOLE MESSAGE:

| COMM SYS - REQUEST TO SEND
| (RTS) SWITCH? 00=OFF, 01=ON

| IS THIS MESSAGE ON THE
| CONSOLE?

| Y N

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

1 1
0 0 9 9
2 0 9 7
F F F F
L M N P

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MAP 3881-96

F PRINTER/DISPLAY WITH
P OR WITHOUT KEYBOARD
9
6
PAGE 97 OF 192

|
|
252
(ENTRY POINT PO)

- SEE CONSOLE MESSAGE:

COMM SYS - CLOCK OPTION?
00=INTERNAL, 01=EXTERNAL

IS THIS MESSAGE ON THE CONSOLE?
Y N

|
| 253
(ENTRY POINT PS)

- SEE CONSOLE MESSAGE:

| COMM SYS - CLEAR TO SEND DELAY
| SWITCH?
| 01=030 MS
| 02=080 MS
| 03=230 MS

| IS THIS MESSAGE ON THE CONSOLE?
| Y N

|
| 254
| GO TO PAGE 88, STEP 233,
| ENTRY POINT CP.

| 255
| THE CLEAR TO SEND DELAY SWITCH
| MUST BE SET. SEE THE 4987
| LOGIC SCXXX AND THE CUSTOMER
| FOR THE CLEAR TO SEND DELAY
| SWITCH INFORMATION. ENSURE THE
| CORRECT CLEAR TO SEND DELAY
| SWITCH IS SET 'ON'.

| IS THE CORRECT CLEAR TO SEND
| DELAY SWITCH SET?

| Y N
| |
| |
| |

9 9 9
8 8 8
F F F
Q R S

F F F
Q R S
9 9 9
7 7 7

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 98 OF 192

256

- SET THE CORRECT CLEAR TO
SEND DELAY SWITCH 'ON'.

- ENTER ON KEYBOARD:

FOX	ENTER/RETURN KEY
OX =	DELAY RATE SWITCH
01 =	030 MS
02 =	080 MS
03 =	230 MS

GO TO PAGE 95, STEP 246,
ENTRY POINT PC.

- USING PROGRAMMER CONSOLE:

(B)	1F	(I)
(B)	0X00	(I) (I)

257

- ENTER ON KEYBOARD:

FOX	ENTER/RETURN KEY
OX =	DELAY RATE SWITCH
01 =	030 MS
02 =	080 MS
03 =	230 MS

GO TO PAGE 95, STEP 246,
ENTRY POINT PC.

- USING PROGRAMMER CONSOLE:

(B)	1F	(I)
(B)	0X00	(I) (I)

258

THE CLOCK OPTION MUST BE SET.
SEE THE 4987 LOGIC SCXXX AND THE
CUSTOMER FOR THE CLOCK OPTION
INFORMATION.

IS THE CLOCK OPTION KNOWN?

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

9 9
9 9
F F
T U

F F F PRINTER/DISPLAY WITH
N T U
9 9 9 OR WITHOUT KEYBOARD
6 8 8
PAGE 99 OF 192

MAP 3881-99

| | |
| | |
| | 259

| | - DETERMINE THE CLOCK OPTION.

| | - ENTER ON KEYBOARD:

| | FOX ENTER/RETURN KEY
| | OX = CLOCK OPTION
| | 00 = INTERNAL CLOCK
| | 01 = EXTERNAL CLOCK

| | GO TO PAGE 97, STEP 253,
| | ENTRY POINT PS.

| | 260

| | - ENTER ON KEYBOARD:

| | FOX ENTER/RETURN KEY
| | OX = CLOCK OPTION
| | 00 = INTERNAL CLOCK
| | 01 = EXTERNAL CLOCK

| | GO TO PAGE 97, STEP 253,
| | ENTRY POINT PS.

| | 261

REQUEST TO SEND (RTS). SEE THE
4987 LOGIC SCXXX AND THE CUSTOMER
FOR THE RTS SWITCH INFORMATION.

- SET THE RTS SWITCH TO THE
CORRECT POSITION.

WHEN DONE, ANSWER THE FOLLOWING
QUESTION:

IS THE RTS SWITCH SET 'ON'?

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

1 1
0 0
0 0
F F
V W

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0X00 (I) (I)

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0X00 (I) (I)

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MAP 3881-99

F F PRINTER/DISPLAY WITH
X Y
1 1 OR WITHOUT KEYBOARD
0 0
0 0 PAGE 101 OF 192

MAP 3881-101

| |
| 265

| - SET THE CORRECT BIT SWITCH.

| - ENTER ON KEYBOARD:

| -----
| FOX ENTER/RETURN KEY
| 0X = BIT RATE SWITCH
| 01 = 0600
| 02 = 1200
| 03 = 2400
| 04 = 4800
| 05 = 9600

| GO TO PAGE 96, STEP 251,
| ENTRY POINT PR.

|
266

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0X00 (I) (I)

- ENTER ON KEYBOARD:

FOX ENTER/RETURN KEY
0X = BIT RATE SWITCH
01 = 0600
02 = 1200
03 = 2400
04 = 4800
05 = 9600

GO TO PAGE 96, STEP 251,
ENTRY POINT PR.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0X00 (I) (I)

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MAP 3881-101

F
L
9
6
PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 102 OF 192

MAP 3881-102

|
|
267
INTERLOCK SWITCH SETTING. SEE
THE 4987 LOGIC SCXXX AND THE
CUSTOMER FOR THE INTERLOCK SWITCH
INFORMATION.

- SET THE INTERLOCK SWITCH TO THE
CORRECT POSITION.

WHEN DONE, ANSWER THE FOLLOWING
QUESTION:

IS THE INTERLOCK SWITCH SET 'ON'?
Y N

|
| 268

- ENTER ON KEYBOARD:
F00 ENTER/RETURN KEY
00 = SWITCH OFF
GO TO PAGE 96, STEP 250,
ENTRY POINT PB.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0000 (I) (I)

|
269

- ENTER ON KEYBOARD:

F01 ENTER/RETURN KEY
01 = SWITCH ON
GO TO PAGE 96, STEP 250,
ENTRY POINT PB.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

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MAP 3881-102

F
J
9
5

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 103 OF 192

MAP 3881-103

|
|
270

CARRIER DETECT SWITCH SETTING.
SEE THE 4987 LOGIC SCXXX AND THE
CUSTOMER FOR THE CARRIER DETECT
SWITCH INFORMATION.

- SET THE CARRIER DETECT SWITCH
TO THE CORRECT POSITION.

WHEN DONE, ANSWER THE FOLLOWING
QUESTION:

IS THE CARRIER DETECT SWITCH SET
'ON'?

Y N

|
| 271

- ENTER ON KEYBOARD:
F00 ENTER/RETURN KEY
00 = CARRIER DETECT OFF
GO TO PAGE 96, STEP 249,
ENTRY POINT PI.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0000 (I) (I)

|
272

- ENTER ON KEYBOARD:

F01 ENTER/RETURN KEY
01 = CARRIER DETECT ON
GO TO PAGE 96, STEP 249,
ENTRY POINT PI.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

F PRINTER/DISPLAY WITH
H
9 OR WITHOUT KEYBOARD
5
PAGE 104 OF 192

MAP 3881-104

|
|
273
DATA SET READY (DSR) SWITCH.

- SEE THE 4987 LOGIC SCXXX AND THE CUSTOMER FOR THE DSR SWITCH INFORMATION.
- SET THE DSR SWITCH TO THE CORRECT POSITION.

WHEN DONE, ANSWER THE FOLLOWING QUESTION:

IS THE DSR SWITCH SET 'ON'?

Y N

|
| 274

| - ENTER ON KEYBOARD:

| -----
| F00 ENTER/RETURN KEY
| 00 = DSR SWITCH OFF
| GO TO PAGE 95, STEP 248,
| ENTRY POINT PE.

|
275

- ENTER ON KEYBOARD:

F01 ENTER/RETURN KEY
01 = DSR SWITCH ON
GO TO PAGE 95, STEP 248,
ENTRY POINT PE.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0000 (I) (I)

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

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MAP 3881-104

F
G
9
5
|
|
276
DATA TERMINAL READY (DTR) SWITCH.
- SEE THE 4987 LOGIC SCXXX AND
THE CUSTOMER FOR THE DTR SWITCH
INFORMATION.
- SET THE DTR SWITCH TO THE
CORRECT POSITION.

MAP 3881-105

WHEN DONE, ANSWER THE FOLLOWING
QUESTION:

IS THE DTR SWITCH SET 'ON'?

Y N

|
| 277

| - ENTER ON KEYBOARD:

| -----
| F00 ENTER/RETURN KEY
| 00 = DTR SWITCH OFF
| GO TO PAGE 95, STEP 247,
| ENTRY POINT PD.
|

278

- ENTER ON KEYBOARD:

F01 ENTER/RETURN KEY
01 = DTR SWITCH ON
GO TO PAGE 95, STEP 247,
ENTRY POINT PD.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0000 (I) (I)

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

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MAP 3881-105

F F F PRINTER/DISPLAY WITH
C D E
9 9 9 OR WITHOUT KEYBOARD
4 4 4

MAP 3881-106

PAGE 106 OF 192

| | |
| | |
| | 279
| | DA = DEVICE ADDRESS.
| | DT = DEVICE TYPE.
| | XXX = READ ID.
| | YY = ERROR MESSAGE NUMBER
| |
| | YY = 10 - 4987 CONTROLLER
| | STARTED WITH NOT
| | EVEN ADDRESS.
| | YY = 11 - ADDRESS AREA AND
| | READ ID NOT KNOWN.
| | YY = 12 - NOT TWO SEQUENTIAL
| | 4987 ENTRIES.
| |
| | THE 4987 CARD WITH THE
| | ADDRESS NOTED ABOVE IS
| | FAILING.
| |
| | - EXCHANGE THE CARD.
| | - VERIFY THE REPAIR

| | 280
| | THE 4987 CARD HAS AN ADDRESS
| | AREA. NO OTHER DEVICE CAN USE
| | THESE RESERVED ADDRESSES. THE
| | CONFIGURATION PROGRAM FOUND A
| | DEVICE WITH AN ADDRESS IN THIS
| | AREA. THE TABLE ENTRY WITH THE
| | ADDRESS AREA ERROR MUST BE
| | CHANGED.

281
THE SPECIFY CODE ENTERED BY YOU
IS NOT CORRECT.
GO TO PAGE 93, STEP 241,
ENTRY POINT TP.

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MAP 3881-106

E
S
8
7

PRINTER/DISPLAY WITH

MAP 3881-107

OR WITHOUT KEYBOARD

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282

(ENTRY POINT TD)

- FIND SPECIFY CODE IN CHART. X = JUMPER INSTALLED, Y = LINE DESCRIPTION
- NO RI = NO RING INDICATE RIP = RING INDICATE PROVIDED
- ICLK = INTERNAL CLOCK IC = INTERNAL CLOCK
- DTR = DATA TERMINAL READY LL = LEASED LINE
- RTS = REQUEST TO SEND 2W = TWO (2) WIRE
- SN = SWITCHED NETWORK 4W = FOUR (4) WIRE

SDLC FEATURE CODE 2090									
SPECIFY CODE	JUMPERS				LINE				
	NO RI	ICLK	DTR	RTS	SN	RIP	IC	LL	
8130	X								
8131					Y	Y			
8132	X	X			Y				
8133		X			Y	Y	Y		
8134	X		X						2W
8135	X		X	X					4W
8136	X	X	X				Y		2W
8137	X	X	X	X			Y		4W

IS THE ACTION COMPLETE?

Y N

283

- COMPLETE THE ACTION AND CONTINUE ON THE YES LEG.

1
0
8
F
Z

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MAP 3881-107

|
284
ENTER THE SPECIFY CODE.

- ENTER ON KEYBOARD:

FYYYY ENTER/RETURN KEY
YYYY = SPECIFY CODE

- SEE CONSOLE MESSAGE:

ERROR - SPECIFY CODE DOES NOT
MATCH CARD.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) YYYY (I) (I)

TELEPROCESSING IS INSTALLED

IF NO SPECIFY CODE IS FOUND, USE
THE JUMPERS ON THE CARD AND S/1
SERVICE AID 3 TO FIND THE SPECIFY
CODE.
IF NO SPECIFY CODE CAN BE
DETERMINED, ENTER '0000' AND AT
TERMINATION OF THIS PROGRAM, LOAD
IT AND USE THE CHANGE FUNCTION
(03) TO ENTER THE DEVICE DATA FOR
THE ENTRY.

IS THIS MESSAGE ON THE CONSOLE?
Y N
|
| 285
| - SEE CONSOLE MESSAGE:
|
| SPECIFY CODE NOT KNOWN
|
| IS THIS MESSAGE ON THE CONSOLE?
| Y N
|
| 286
| - SEE CONSOLE MESSAGE:
|
| NO INTERRUPT
|
| IS THIS MESSAGE ON THE
| CONSOLE?
| Y N

1 1 1 1
0 0 0 0
9 9 9 9
G G G G
A B C D

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MAP 3881-108

G G G G PRINTER/DISPLAY WITH
A B C D
1 1 1 1 OR WITHOUT KEYBOARD
0 0 0 0
8 8 8 8 PAGE 109 OF 192

MAP 3881-109

| | | |
| | | 287
| | | GO TO PAGE 87,
| | | STEP 232,
| | | ENTRY POINT TE.
| | |
| | | 288
| | THE SDLC CARD WITH THE
| | ADDRESS NOTED ABOVE IS
| | FAILING.
| |
| | - EXCHANGE THE CARD.
| | - VERIFY THE REPAIR
| |
| 289
| THE SPECIFY CODE ENTERED BY YOU
| IS NOT CORRECT.
| GO TO PAGE 107, STEP 282,
| ENTRY POINT TD.
|
290
YOU HAVE ENTERED A CORRECT
SPECIFY CODE FOR AN SDLC CARD,
BUT THE SPECIFY CODE IS NOT
CORRECT FOR THE SDLC CARD
INSTALLED.
GO TO PAGE 107, STEP 282,
ENTRY POINT TD.

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MAP 3881-109

E
R
8
7

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 110 OF 192

MAP 3881-110

291
(ENTRY POINT TB)

- FIND SPECIFY CODE IN CHART. X = JUMPER INSTALLED, Y = LINE DESCRIPTION
 MP = MULTIPOINT TRIBUTARY MP = MULTIPOINT
 MPTA7 = MP TERMINAL ADDRESS BIT 7 HD = HALF DUPLEX
 DTR = DATA TERMINAL READY RIP = RING INDICATE PROVIDED
 RTS = REQUEST TO SEND SN = SWITCHED NETWORK
 ICLK = INTERNAL CLOCK LL = LEASED LINE
 NO RI = NO RING INDICATE 2W = TWO (2) WIRE
 FD = FULL DUPLEX 4W = FOUR (4) WIRE

BSCA SL MEDIUM SPEED FEATURE CODE 2074											
SPECIFY CODE	JUMPERS						LINE				
	MP	MPTA7	DTR	RTS	ICLK	NO RI	MP	HD	RIP	SN	LL
8120	X		X			X	Y				
8121	X		X			X	Y				
8122		X				X		Y		Y	
8123		X				X			Y	Y	
8124		X				X				Y	
8125		X				X			Y	Y	
8126			X			X		Y			2W
8127			X	X		X					4W
8128			X			X		Y			2W
8129			X	X		X					4W

V23/DDN = MODEM

WE303 = MODEM

BSCA SINGLE LINE HIGH SPEED FEATURE CODE 2075									
SPECIFY CODE	JUMPERS				LINE				
	MP	DTR	RTS	V35/DDN	WE303	HD	FD	LL	
8161		X		XY		Y		Y	
8162		X	X	XY			Y	Y	
8163	X	X		XY					
8164		X			XY	Y		Y	
8165		X	X		XY		Y	Y	
8166	X	X			XY				

(STEP 291 CONTINUES)

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MAP 3881-110

PRINTER/DISPLAY WITH

MAP 3881-111

OR WITHOUT KEYBOARD

PAGE 111 OF 192

(STEP 291 CONTINUED)

BSCA EIGHT (8) LINE CONTROLLER FEATURE CODE 2093					
SPECIFY CODE	CONTROLLER NUMBER IS:	SPECIFY CODE	CONTROLLER NUMBER IS:	SPECIFY CODE	CONTROLLER NUMBER IS:
8151	ONE (1)	8153	THREE (3)	8155	FIVE (5)
8152	TWO (2)	8154	FOUR (R)	8156	SIX (6)

BSCA 4 LINE ADAPTER FEATURE CODE 2094											
SPECIFY CODE	JUMPERS						LINE				
	MP	MPTA7	DTR	RTS	ICLK	NO RI	MP	HD	RIP	SN	LL
840Z	X		X			X	Y	Y			
841Z	X		X		X	X	Y	Y			
842Z		X				X		Y		Y	
843Z		X						Y	Y	Y	
844Z		X			X	X		Y		Y	
845Z		X			X			Y	Y	Y	
846Z			X			X		Y			2W
847Z			X	X		X					4W
848Z			X		X	X		Y			2W
849Z			X	X	X	X					4W

Z = THE CONTROLLER NUMBER THIS LINE IS ATTACHED TO (0 - 6).

IS THE ACTION COMPLETE?

Y N

292

- COMPLETE THE ACTION AND CONTINUE ON THE YES LEG.

1
1
2
G
E

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MAP 3881-111

G G G PRINTER/DISPLAY WITH
G H J
1 1 1 OR WITHOUT KEYBOARD
1 1 1
2 2 2 PAGE 113 OF 192

MAP 3881-113

| | |
| | 296
| | - SEE CONSOLE MESSAGE:
| |
| | NO INTERRUPT
| |
| | IS THIS MESSAGE ON THE
| | CONSOLE?
| | Y N
| | |
| | | 297
| | | GO TO PAGE 87,
| | | STEP 231,
| | | ENTRY POINT CB.
| | |
| | 298
| | THE BSCA CARD WITH THE
| | ADDRESS NOTED ABOVE IS
| | FAILING.
| |
| | - EXCHANGE THE CARD.
| | - VERIFY THE REPAIR
| |
| 299
| THE BSCA ML HAS AN ADDRESS
| AREA. NO OTHER DEVICE CAN USE
| THESE RESERVED ADDRESSES. THE
| CONFIGURATION PROGRAM FOUND A
| DEVICE WITH AN ADDRESS IN THIS
| AREA.
| THE CONFIGURATION TABLE ENTRY
| WITH THE AREA ERROR MUST BE
| CHANGED.
|
300
THE SPECIFY CODE ENTERED BY YOU
IS NOT CORRECT.
GO TO PAGE 110, STEP 291,
ENTRY POINT TB.

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MAP 3881-113

E G PRINTER/DISPLAY WITH
P F
8 1 OR WITHOUT KEYBOARD
6 1
2 PAGE 114 OF 192

|
|
| 301

| - SEE IF THE REMOTE IPL JUMPER
| IS INSTALLED ON THE BSCA
| CARD.

| - ENTER ON KEYBOARD:

|-----
| FOX ENTER/RETURN KEY
| 00 = NO JUMPER
| 01 = JUMPER.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0X00 (I) (I)

| GO TO PAGE 87, STEP 231,
| ENTRY POINT CB.

|
302
(ENTRY POINT FM)

- SEE CONSOLE MESSAGE:

BIAS JUMPER? 00=OFF, 01=ON

IS THIS MESSAGE ON THE CONSOLE?

Y N

| 303

| - SEE CONSOLE MESSAGE:

| MULTIPOINT TRIBUTARY JUMPER?
| 00=OFF, 01=ON

| IS THIS MESSAGE ON THE CONSOLE?

| Y N

| 304

| - SEE CONSOLE MESSAGE:

| JUMPER S0? 00=OFF, 01=ON

| IS THIS MESSAGE ON THE
| CONSOLE?

| Y N

| | |
| | |

1 1 1 1
1 1 1 1
9 8 7 5
G G G G
K L M N

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G PRINTER/DISPLAY WITH
N
1 OR WITHOUT KEYBOARD
1
4 PAGE 115 OF 192

MAP 3881-115

|
305
- SEE CONSOLE MESSAGE:

JUMPER S1? 00=OFF, 01=ON

IS THIS MESSAGE ON THE CONSOLE?

Y N

|
| 306
| - SEE CONSOLE MESSAGE:

| JUMPER S2? 00=OFF, 01=ON

| IS THIS MESSAGE ON THE CONSOLE?

| Y N

|
| 307
| GO TO PAGE 86, STEP 230,
| ENTRY POINT MF.

| 308
| - SEE THE CUSTOMER FOR THE S2
| JUMPER INFORMATION.
| - SET THE JUMPER TO THE CORRECT
| POSITION.

| WHEN DONE, ANSWER THE FOLLOWING
| QUESTION:

| IS THE S2 JUMPER INSTALLED?

| Y N

|
| 309
|
- ENTER ON KEYBOARD:
F00 ENTER/RETURN KEY
00 = NO JUMPER
GO TO PAGE 114, STEP 302,
ENTRY POINT FM.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0000 (I) (I)

1 1
1 1
6 6
G G
P Q

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MAP 3881-115

G G PRINTER/DISPLAY WITH
P Q
1 1 OR WITHOUT KEYBOARD
1 1
5 5 PAGE 116 OF 192

MAP 3881-116

| |
| 310

- ENTER ON KEYBOARD:
F01 ENTER/RETURN KEY
01 = JUMPER
GO TO PAGE 114, STEP 302,
ENTRY POINT FM.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

311
- SEE THE CUSTOMER FOR THE S1
 JUMPER INFORMATION.
- SET THE JUMPER TO THE CORRECT
 POSITION.

WHEN DONE, ANSWER THE FOLLOWING
QUESTION:

IS THE S1 JUMPER INSTALLED?

Y N

| |
| 312

- ENTER ON KEYBOARD:
F00 ENTER/RETURN KEY
00 = NO JUMPER
GO TO PAGE 114, STEP 302,
ENTRY POINT FM.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

313

- ENTER ON KEYBOARD:

F01 ENTER/RETURN KEY
01 = JUMPER
GO TO PAGE 114, STEP 302,
ENTRY POINT FM.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

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MAP 3881-116

G
M
1
1
4
PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 117 OF 192

MAP 3881-117

|
314
- SEE THE CUSTOMER FOR THE SO
JUMPER INFORMATION.
- SET THE JUMPER TO THE CORRECT
POSITION.

WHEN DONE, ANSWER THE FOLLOWING
QUESTION:

IS THE SO JUMPER INSTALLED?

Y N

|
| 315
- ENTER ON KEYBOARD:
F00 ENTER/RETURN KEY
00 = NO JUMPER
GO TO PAGE 114, STEP 302,
ENTRY POINT FM.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0000 (I) (I)

|
316

- ENTER ON KEYBOARD:

F01 ENTER/RETURN KEY
01 = JUMPER
GO TO PAGE 114, STEP 302,
ENTRY POINT FM.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

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MAP 3881-117

G PRINTER/DISPLAY WITH
L
1 OR WITHOUT KEYBOARD
1
4 PAGE 118 OF 192

MAP 3881-118

|
317
- SEE THE CUSTOMER FOR THE
MULTIPOINT TRIBUTARY JUMPER
INFORMATION.
- SET THE JUMPER TO THE CORRECT
POSITION.

WHEN DONE, ANSWER THE FOLLOWING
QUESTION:

IS THE MULTIPOINT TRIBUTARY
JUMPER INSTALLED?

Y N

|
| 318
|
- ENTER ON KEYBOARD:
F00 ENTER/RETURN KEY
00 = NO JUMPER
GO TO PAGE 114, STEP 302,
ENTRY POINT FM.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0000 (I) (I)

319

- ENTER ON KEYBOARD:

F01 ENTER/RETURN KEY
01 = JUMPER
GO TO PAGE 114, STEP 302,
ENTRY POINT FM.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

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MAP 3881-118

E G PRINTER/DISPLAY WITH
N K
8 1 OR WITHOUT KEYBOARD
6 1
4 PAGE 119 OF 192

|
|
| 320
| - SEE THE CUSTOMER FOR THE BIAS
| JUMPER INFORMATION.
| - SET THE JUMPER TO THE CORRECT
| POSITION.

| WHEN DONE, ANSWER THE FOLLOWING
| QUESTION:

| IS THE BIAS JUMPER INSTALLED?
| Y N

| 321
- ENTER ON KEYBOARD:
F00 ENTER/RETURN KEY
00 = NO JUMPER
GO TO PAGE 114, STEP 302,
ENTRY POINT FM.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0000 (I) (I)

| 322
- ENTER ON KEYBOARD:
F01 ENTER/RETURN KEY
01 = JUMPER
GO TO PAGE 114, STEP 302,
ENTRY POINT FM.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

323
(ENTRY POINT TI)

- SEE CONSOLE MESSAGE:

LINE INSTALLED? 00=NO, 01=YES

IS THIS MESSAGE ON THE CONSOLE?
Y N
| |
| |
| |
| |

1 1
2 2
3 0
G G
R S

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G PRINTER/DISPLAY WITH
S OR WITHOUT KEYBOARD
1
1
9 PAGE 120 OF 192

MAP 3881-120

|
324
- SEE CONSOLE MESSAGE:

SPECIFY CODE
ENTER

IS THIS MESSAGE ON THE CONSOLE?

Y N

|
| 325
| - SEE CONSOLE MESSAGE:

| CLOCKS DURING WRAP? 00=NO,
| 01=YES

| IS THIS MESSAGE ON THE CONSOLE?

Y N

|
| 326
| GO TO PAGE 86, STEP 229,
| ENTRY POINT AS.

| 327
| CLOCKS DURING WRAP. SEE IF YOU
| WANT THE CLOCK WRAPPED. SEE
| THE 4987 LOGIC SC455 AND THE
| CUSTOMER FOR THE CLOCK WRAP
| INFORMATION.

| DO YOU WANT THE CLOCK WRAPPED?

Y N

|
| 328

| - ENTER ON KEYBOARD:

| F00 ENTER/RETURN KEY
| 00 = NO WRAP

| GO TO PAGE 119, STEP 323,
| ENTRY POINT TI.

- USING PROGRAMMER CONSOLE:

| (B) 1F (I)
| (B) 0000 (I) (I)

1 1
2 2
2 1
G G
T U

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ECA23101 PECA10990

MAP 3881-120

G
U
1
2
0
PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 121 OF 192

MAP 3881-121

1
329

- ENTER ON KEYBOARD:

F01 ENTER/RETURN KEY
 01 = WRAP
GO TO PAGE 119, STEP 323,
ENTRY POINT TI.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

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MAP 3881-121

|
330

- ENTER THE SPECIFY CODE.

- ENTER ON KEYBOARD:

FYYYY ENTER/RETURN KEY
YYYY = SPECIFY CODE

X = JUMPER INSTALLED
DCD = DATA CARRIER DETECT
DTR = DATA TERMINAL READY
RTS = REQUEST TO SEND
INT = INTERFACE
TTY = TELETYPE
EIA = MODEM
S = SPEED
HS = HIGH SPEED
LS = LOW SPEED

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) YYYY (I) (I)

Y = LINE DESCRIPTION
DC = DIRECT CONNECT
CL = CURRENT LOOP
SN = SWITCHED NETWORK
LL = LEASED LINE
4W = FOUR (4) WIRE
2W = TWO WIRE
S = SPEED
HS = HIGH SPEED
LS = LOW SPEED

FPMLC 4 LINE ADAPTER FEATURE CODE 2096											
SPECIFY CODE	JUMPERS					LINE DESCRIPTION					
	S	INT	DTR	RTS	DCD	CL	SN	DC	S	LL	
8020	HS	EIA	X	X	X				HS	4W	
8021	HS	EIA	X		X			Y	HS	2W	
8022	LS	EIA	X	X	X				LS	4W	
8023	LS	EIA	X		X			Y	LS	2W	
8024	HS	EIA			X		Y		HS		
8025	LS	EIA			X		Y		LS		
8026	HS	TTY	X	X	X	Y			HS		
8027	LS	TTY	X	X	X	Y			LS		

Z = ATTACHMENTS INSTALLED, 1 FIRST ATTACHMENT, 2 SECOND ATTACHMENT

- SEE CONSOLE MESSAGE:

SPECIFY CODE NOT KNOWN
(STEP 330 CONTINUES)

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G
V
1
2
3

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 124 OF 192

MAP 3881-124

|
335

- ENTER ON KEYBOARD:

F01 ENTER/RETURN KEY
 01 = LINE
GO TO PAGE 119, STEP 323,
ENTRY POINT TI.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

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MAP 3881-124

E
L
8
5

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 125 OF 192

MAP 3881-125

336

(ENTRY POINT TA)

- FIND SPECIFY CODE IN CHART. X = JUMPER INSTALLED, Y = LINE DESCRIPTION
 DTR = DATA TERMINAL READY HD = HALF DUPLEX
 RTS = REQUEST TO SEND FD = FULL DUPLEX
 DCD = DATA CARRIER DETECT DC = DIRECT CONNECT
 LL = LEASED LINE
 SN = SWITCHED NETWORK

ACCA SINGLE LINE FEATURE CODE 1610											
SPECIFY CODE	JUMPERS					LINE					
	LO	MED	DTR	RTS	DCD	HD	FD	DC	LL	SN	
8100	X		X			Y		Y			
8101	X		X	X			Y	Y			
8102	X					Y				Y	
8103	X			X			Y			Y	
8104	X				X	Y				Y	
8105	X			X	X		Y			Y	
8106	X		X			Y			Y		
8107	X		X	X			Y		Y		
8108	X		X		X	Y			Y		
8109	X		X	X	X		Y		Y		
8110		X	X			Y		Y			
8111		X	X	X			Y	Y			
8112		X				Y				Y	
8113		X		X			Y			Y	
8114		X			X	Y				Y	
8115		X		X	X		Y			Y	
8116		X	X			Y			Y		
8117		X	X	X			Y		Y		
8118		X	X		X	Y			Y		
8119		X	X	X	X		Y		Y		

(STEP 336 CONTINUES)

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MAP 3881-125

OR WITHOUT KEYBOARD

PAGE 126 OF 192

(STEP 336 CONTINUED)

ACCA MULTILINE CONTROLLER FEATURE CODE 2091					
SPECIFY	CONTROLLER	SPECIFY	CONTROLLER		
CODE	NUMBER IS:	CODE	NUMBER IS:		
8141	ONE (1)	8144	FOUR (4)		
8142	TWO (2)	8145	FIVE (5)		
8143	THREE (3)	8146	SIX (6)		

ACCA FOUR LINE ADAPTER FEATURE CODE 2092											
SPECIFY CODE	JUMPERS					LINE					
	LO	MED	DTR	RTS	DCD	HD	FD	DC	LL	SN	
820Z	X		X			Y		Y			
821Z	X		X	X			Y	Y			
822Z	X					Y					Y
823Z	X			X			Y				Y
824Z	X				X	Y					Y
825Z	X			X	X		Y				Y
826Z	X		X			Y			Y		
827Z	X		X	X			Y		Y		
828Z	X		X		X	Y			Y		
829Z	X		X	X	X		Y		Y		
830Z		X	X			Y		Y			
831Z		X	X	X			Y	Y			
832Z		X				Y					Y
833Z		X		X			Y				Y
834Z		X			X	Y					Y
835Z		X		X	X		Y				Y
836Z		X	X			Y			Y		
837Z		X	X	X			Y		Y		
838Z		X	X		X	Y			Y		
839Z		X	X	X	X		Y		Y		

Z = THE CONTROLLER NUMBER THIS LINE IS ATTACHED TO (0 - 6).

IS THE ACTION COMPLETE?

Y N
| |
| |

1 1
2 2
7 7
G G
W X

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MAP 3881-126

G G PRINTER/DISPLAY WITH
W X
1 1 OR WITHOUT KEYBOARD
2 2
6 6 PAGE 127 OF 192

MAP 3881-127

| |
| 337
| - COMPLETE THE ACTION AND
| CONTINUE ON THE YES LEG.
|

338

- ENTER ON KEYBOARD:

FYYYY ENTER/RETURN KEY
YYYY = SPECIFY CODE

- SEE CONSOLE MESSAGE:

SPECIFY CODE NOT KNOWN

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0000 (I) (I)

TELEPROCESSING IS INSTALLED

IF NO SPECIFY CODE IS FOUND, USE
THE JUMPERS ON THE CARD AND S/1
SERVICE AID 3 TO FIND THE SPECIFY
CODE.

IF NO SPECIFY CODE CAN BE
DETERMINED, ENTER '0000' AND AT
TERMINATION OF THIS PROGRAM, LOAD
IT AND USE THE CHANGE FUNCTION
(03) TO ENTER THE DEVICE DATA FOR
THE ENTRY.

IS THIS MESSAGE ON THE CONSOLE?

Y N

| |
| 339
| - SEE CONSOLE MESSAGE:
|
| ERROR - MULTI-LINE CONTROLLER
| AREA
|

IS THIS MESSAGE ON THE CONSOLE?

Y N

1 1 1
2 2 2
8 8 8
G G H
Y Z A

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MAP 3881-127

G G H PRINTER/DISPLAY WITH
Y Z A
1 1 1 OR WITHOUT KEYBOARD
2 2 2
7 7 7 PAGE 128 OF 192

MAP 3881-128

| | |
| | 340
| | - SEE CONSOLE MESSAGE:
| |
| | NO INTERRUPT
| |
| | IS THIS MESSAGE ON THE
| | CONSOLE?
| | Y N
| | |
| | | 341
| | | GO TO PAGE 85,
| | | STEP 228,
| | | ENTRY POINT CA.
| | |
| | 342
| | THE ACCA CARD WITH THE
| | ADDRESS NOTED ABOVE IS
| | FAILING.
| |
| | - EXCHANGE THE CARD.
| | - VERIFY THE REPAIR
| |
| 343
| THE ACCA ML HAS AN ADDRESS
| AREA. NO OTHER DEVICE CAN USE
| THESE RESERVED ADDRESSES. THE
| CONFIGURATION PROGRAM FOUND A
| DEVICE WITH AN ADDRESS IN THIS
| AREA.
| THE CONFIGURATION TABLE ENTRY
| WITH THE AREA ERROR MUST BE
| CHANGED.
|
344
THE SPECIFY CODE ENTERED BY YOU
IS NOT CORRECT.
GO TO PAGE 125, STEP 336,
ENTRY POINT TA.

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MAP 3881-128

E PRINTER/DISPLAY WITH
J
8 OR WITHOUT KEYBOARD
4
PAGE 129 OF 192

|
|
345
(ENTRY POINT SE)

- SEE THE SPEECH CONTROLLER FOR THIS ADDRESS.

- ENTER ON KEYBOARD:

- USING PROGRAMMER CONSOLE:

FOX ENTER/RETURN KEY
X = NUMBER OF LINES

(B) 1F (I)
(B) 0X00 (I) (I)

IF ID IS 2112 - LINES ARE 0-2
IF ID IS 2212 - LINES ARE 0-4

- SEE CONSOLE MESSAGE:

ENTRY NOT VALID
ENTER

IS THE ABOVE MESSAGE ON THE CONSOLE?

Y N

|
| 346
| GO TO PAGE 84, STEP 227,
| ENTRY POINT SF.

|
347
CORRECT THE ENTRY.
GO TO STEP 345,
ENTRY POINT SE.

E E
F G
8 8
3 3

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 130 OF 192

MAP 3881-130

| |
| |
| 348

| (ENTRY POINT TV)

| - SEE THE TAPE UNIT DRIVE TYPE.

| - ENTER ON KEYBOARD:

| -----
| FXX ENTER/RETURN KEY
| 00 = NRZI
| 01 = DUAL
| FF = PE (PHASE ENCODED)

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) XX00 (I) (I)

| - SEE CONSOLE MESSAGE:

| ENTRY NOT VALID
| ENTER

| IS THE ABOVE MESSAGE ON THE
| CONSOLE?

| Y N

| |
| | 349
| | GO TO PAGE 83, STEP 226,
| | ENTRY POINT TU.

| |
| 350
| CORRECT THE ENTRY.
| GO TO STEP 348,
| ENTRY POINT TV.

|
351
- SEE IF FLOATING POINT IS
 INSTALLED.

IS A FLOATING POINT INSTALLED?

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

1 1
3 3
1 1
H H
B C

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MAP 3881-130

E H H PRINTER/DISPLAY WITH
E B C
8 1 1 OR WITHOUT KEYBOARD
3 3 3
0 0 PAGE 131 OF 192

|
| | |
| | 352
| |
| | FLOATING POINT IS NOT
| | INSTALLED.

| | - ENTER ON KEYBOARD:
| | -----

| | F00 ENTER/RETURN KEY
| | 00 = NO FLOATING POINT
| | GO TO PAGE 83, STEP 226,
| | ENTRY POINT TU.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 00 (I) (I)

| 353
| FLOATING POINT IS INSTALLED.

- ENTER ON KEYBOARD:

| F01 ENTER/RETURN KEY
| 01 = FLOATING POINT
| GO TO PAGE 83, STEP 226,
| ENTRY POINT TU.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

| 354
| (ENTRY POINT MO)

- SEE IF AN OEMI CARD IS
 INSTALLED ON THE SYSTEM.

IS AN OEMI CARD INSTALLED ON THE
SYSTEM?

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

1 1
3 3
2 2
H H
D E

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H H PRINTER/DISPLAY WITH
D E
1 1 OR WITHOUT KEYBOARD
3 3
1 1 PAGE 132 OF 192

MAP 3881-132

| |
| 355
|
| (ENTRY POINT NO)

- ENTER ON KEYBOARD:
F00 ENTER/RETURN KEY
00 = NO
GO TO PAGE 83, STEP 225,
ENTRY POINT FP.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0000 (I) (I)

356
AN 'OEMI' CARD IS INSTALLED ON
THE SYSTEM AND IS NOT IN THE
CONFIGURATION TABLE.

- ENTER ON KEYBOARD:

F01 ENTER/RETURN KEY
01 = YES

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

AT CONSOLE MESSAGE:

ADDRESS
ENTER

- ENTER ON KEYBOARD:

FXX00 ENTER/RETURN KEY
XX = OEMI ADDRESS

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) XX00 (I) (I)

- SEE IF ANOTHER 'OEMI' CARD IS
INSTALLED ON THE SYSTEM.
- SEE IF THIS 'OEMI' CARD IS IN
THE CONFIGURATION TABLE.

IS THERE ANOTHER OEMI CARD
INSTALLED AND NOT IN THE TABLE?

Y N
| |
| |
| |
| |

1 1
3 3
4 3
H H
F G

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MAP 3881-132

H PRINTER/DISPLAY WITH
G OR WITHOUT KEYBOARD
1
3
2 PAGE 133 OF 192

|
357
- SEE CONSOLE MESSAGE:

ADDRESS = XX
OIO CC = 000X

IS THE CONDITION CODE '0000'?
Y N

| 358
| THE 'OEMI' ATTACHMENT CARD IS
| BAD.
|
| - EXCHANGE OEMI ATTACHMENT
| CARD.
| - VERIFY THE REPAIR
|

359
- SEE IF AN 'OEMI' CARD IS
INSTALLED ON THE SYSTEM.

IS AN 'OEMI' CARD INSTALLED ON
THE SYSTEM?
Y N

| 360
| THE 'OEMI' CONFIGURATION TABLE
| ENTRY IS NOT CORRECT. REMEMBER
| THIS ERROR. IT MUST BE
| CORRECTED BY YOU LATER IN THIS
| MAP.
| GO TO PAGE 132, STEP 355,
| ENTRY POINT NO.

1
3
4
H
H

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H H PRINTER/DISPLAY WITH
F H
1 1 OR WITHOUT KEYBOARD
3 3
2 3 PAGE 134 OF 192

MAP 3881-134

| |
| 361
| THE ADDRESS AND CONDITION CODE
| IS ON THE CONSOLE. SEE IF THE
| CONFIGURATION ENTRY MADE BY YOU
| IS CORRECT.

| IS THE CONFIGURATION ENTRY MADE
| BY YOU CORRECT?

| Y N

| |
| | 362
| | THE 'OEMI' CONFIGURATION
| | TABLE ENTRY IS NOT CORRECT.
| | REMEMBER THIS ERROR. IT MUST
| | BE CORRECTED BY YOU LATER IN
| | THIS MAP.
| | GO TO PAGE 132, STEP 355,
| | ENTRY POINT NO.

| 363
| THE 'OEMI' ATTACHMENT CARD IS
| BAD.

| - EXCHANGE OEMI ATTACHMENT
| CARD.
| - VERIFY THE REPAIR

364
GO TO PAGE 131, STEP 354,
ENTRY POINT NO.

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MAP 3881-134

E PRINTER/DISPLAY WITH
C OR WITHOUT KEYBOARD
8
2 PAGE 135 OF 192

|
|
365
TWO CHANNEL SWITCH(ES) IS/ARE
CABLED TO THIS PROCESSING UNIT.
SEE IF THE CUSTOMER IS USING THE
'COMMON I/O' WITH THE OTHER
PROCESSING UNIT.

IS THE CUSTOMER USING THE COMMON
I/O?
Y N

| 366
| THE COMMON I/O IS NOT BEING
| USED BY THE CUSTOMER.

- ENTER ON KEYBOARD:

FOO ENTER/RETURN KEY
00 = NO

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0000 (I) (I)

- SEE CONSOLE MESSAGE:

REFERENCE THE TWO CHANNEL
SWITCH CONSOLE(S)
SET THE SELECT SWITCH(ES) TO
THIS PROCESSING UNIT
ENSURE THE MODE SWITCH(ES) IS
IN MANUAL MODE
PRESS AND RELEASE THE RESET
PUSHBUTTON(S)
ENTER 01 WHEN ACTION IS
COMPLETE.

IS THIS MESSAGE ON THE CONSOLE?

Y N

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

1 1 1
6 3 3
0 6 6
H H H
J K L

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ECA23101 PECA10990
MAP 3881-135

H PRINTER/DISPLAY WITH
M
1 OR WITHOUT KEYBOARD
3
6 PAGE 137 OF 192

MAP 3881-137

|
370
- FOLLOW THE INSTRUCTIONS ON THE
 CONSOLE. WHEN ACTION IS
 COMPLETE:

- ENTER ON KEYBOARD:

F01 ENTER/RETURN KEY
 01 = ACTION COMPLETE

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

- SEE CONSOLE MESSAGE:

IS ALTERNATE CONSOLE BEING USED
BY YOU INSTALLED IN COMMON I/O?
00=NO, 01=YES

IS THIS MESSAGE ON THE CONSOLE?
Y N
|
| 371
| GO TO PAGE 141, STEP 384,
| ENTRY POINT TG.
|
372

- SEE THE NOTE -->
- SEE IF THE CONSOLE BEING USED
 BY YOU NOW IS INSTALLED AS
 COMMON I/O.

COMMON I/O

THE I/O ATTACHMENT CARD(S) THAT
ARE SHARED 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 CARD. THE I/O
ATTACHMENT OR DEVICE CARD(S) CAN
BE INSTALLED OUTBOARD OF THE TWO
CHANNEL SWITCH BOARD IN ANOTHER
EXPANSION BOARD.

IS THE CONSOLE USED BY YOU
INSTALLED AS COMMON I/O?
Y N
| |
| |
| |

1 1
3 3
8 8
H H
N P

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MAP 3881-137

H H PRINTER/DISPLAY WITH
N P
1 1 OR WITHOUT KEYBOARD
3 3
7 7 PAGE 138 OF 192

MAP 3881-138

| |
| 373

- ENTER ON KEYBOARD:
F00 ENTER/RETURN KEY
00 = NO
GO TO PAGE 141, STEP 384,
ENTRY POINT TG.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0000 (I) (I)

374

- ENTER ON KEYBOARD:

F01 ENTER/RETURN KEY
01 = YES

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

- SEE CONSOLE MESSAGE:

IS A PROGRAMMER OR MAINTENANCE
CONSOLE INSTALLED ON THE
PROCESSING UNIT YOU ARE USING?
00=NO, 01=YES

IS THIS MESSAGE ON THE CONSOLE?
Y N

| 375
| GO TO PAGE 141, STEP 384,
| ENTRY POINT TG.

376

- SEE IF A PROGRAMMER OR
MAINTENANCE CONSOLE IS
INSTALLED ON THE PROCESSING
UNIT YOU ARE USING.

IS A PROGRAMMER OR MAINTENANCE
CONSOLE INSTALLED ON THE
PROCESSING UNIT YOU ARE USING?

Y N
| |
| |
| |
| |

1 1
3 3
9 9
H H
Q R

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MAP 3881-138

H H PRINTER/DISPLAY WITH
Q R
1 1 OR WITHOUT KEYBOARD
3 3
8 8 PAGE 139 OF 192

MAP 3881-139

| |
| 377

- ENTER ON KEYBOARD:

| F00 ENTER/RETURN KEY
| 00 = NO

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0000 (I) (I)

| THE CONFIGURATION PROGRAM WILL
| TERMINATE. YOU CANNOT
| CONFIGURE THE SYSTEM WITHOUT A
| PROGRAMMER OR MAINTENANCE
| CONSOLE.
| GO TO PAGE 2, STEP 001,
| ENTRY POINT A.

| 378

- ENTER ON KEYBOARD:

F01 ENTER/RETURN KEY
01 = YES

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

- SEE CONSOLE MESSAGE:

IS ALTERNATE CONSOLE BEING USED
BY YOU INSTALLED IN FARTHEST
COMMON I/O?
00=NO, 01=YES

IS THIS MESSAGE ON THE CONSOLE?

Y N

| 379

| ONE (1) TWO CHANNEL SWITCH IS
| INSTALLED.
| GO TO PAGE 141, STEP 384,
| ENTRY POINT TG.

1
4
0
H
S

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MAP 3881-139

H
S
1
3
9
PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 140 OF 192

MAP 3881-140

|
380
MORE THAN ONE TWO CHANNEL SWITCH
IS INSTALLED.

- SEE IF THE CONSOLE BEING USED
BY YOU IS INSTALLED IN THE
COMMON I/O FARTHEST FROM THE
PROCESSING UNIT YOU ARE USING.

IS THE CONSOLE YOU ARE USING
INSTALLED IN THE FARTHEST COMMON
I/O?

Y N

|
381

- ENTER ON KEYBOARD:
F00 ENTER/RETURN KEY
00 = NO
GO TO PAGE 141, STEP 384,
ENTRY POINT TG.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0000 (I) (I)

382

- ENTER ON KEYBOARD:

F01 ENTER/RETURN KEY
01 = YES

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

IS THE ENTRY MADE?

Y N

|
383
- MAKE THE ENTRY AND:
GO TO PAGE 141, STEP 384,
ENTRY POINT TG.

1
4
1
H
T

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MAP 3881-140

H
T
1
4
0
PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 141 OF 192

MAP 3881-141

|
384
(ENTRY POINT TG)

- SEE CONSOLE MESSAGE:

REFERENCE THE TWO CHANNEL SWITCH
CONSOLE NEAREST TO THE PROCESSING
UNIT.
CHANGE THE SELECT SWITCH TO THE
OTHER POSITION
PRESS AND RELEASE THE RESET
PUSHBUTTON
ENTER 01 WHEN ACTION IS COMPLETE.

IS THIS MESSAGE ON THE CONSOLE?

Y N

|
| 385
| - SEE CONSOLE MESSAGE:

| REFERENCE THE TWO CHANNEL
| SWITCH CONSOLE FARTHEST FROM
| THE PROCESSING UNIT.
| CHANGE THE SELECT SWITCH TO THE
| OTHER POSITION
| PRESS AND RELEASE THE RESET
| PUSHBUTTON
| ENTER 01 WHEN ACTION IS
| COMPLETE.

| IS THIS MESSAGE ON THE CONSOLE?

| Y N

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

1 1 1
4 4 4
7 2 2
H H H
U V W

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ECA23101 PECA10990

MAP 3881-141

H H PRINTER/DISPLAY WITH
V W
1 1 OR WITHOUT KEYBOARD
4 4
1 1 PAGE 142 OF 192

| |
| 386
| - SEE THE TWO CHANNEL SWITCH
| CONSOLE(S)
| - SET THE SELECT SWITCH(ES) TO
| THIS PROCESSING UNIT
| - ENSURE THE MODE SWITCH(ES) IS
| IN MANUAL MODE
| - PRESS AND RELEASE THE RESET
| PUSHBUTTON(S)

| THE SELECT SWITCH(ES) IS/ARE
| SET TO THIS PROCESSING UNIT.
| GO TO PAGE 82, STEP 222,
| ENTRY POINT SC.

|
387
- SEE IF THE FARTHEST SELECT
SWITCH IS SET TO THE PROCESSING
UNIT YOU ARE USING.

IS THE FARTHEST SELECT SWITCH SET
TO THE PROCESSING UNIT YOU ARE
USING?

Y N

| 388
| ERROR - TWO CHANNEL SWITCH WAS
| IN THE WRONG POSITION.
| GO TO PAGE 83, STEP 224,
| ENTRY POINT OE.

1
4
3
H
X

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H
X
1
4
2

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 143 OF 192

MAP 3881-143

|
389

- SEE THE FARTHEST TWO CHANNEL SWITCH CONSOLE.
- CHANGE THE SELECT SWITCH TO THE OTHER POSITION.
- PRESS AND RELEASE THE RESET PUSHBUTTON.
- SEE THE LAST LINE OF THE MESSAGE ON THE ALTERNATE CONSOLE. SEE IF THE LAST LINE OF THE MESSAGE IS:

ALT CONS OFF

IS THE LAST LINE OF THE MESSAGE 'ALT CONS OFF'?

Y N

| 390

- ENTER ON KEYBOARD:

F01 ENTER/RETURN KEY
01 = ACTION COMPLETE

GO TO PAGE 141, STEP 384,
ENTRY POINT TG.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0000 (I) (I)

|
1
4
4
H
Y

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MAP 3881-143

H PRINTER/DISPLAY WITH
Y
1 OR WITHOUT KEYBOARD
4
3 PAGE 144 OF 192

MAP 3881-144

|
391
THE ALTERNATE CONSOLE YOU ARE
USING IS PART OF THE COMMON I/O.
THE CONFIGURATION PROGRAM TOOK IT
OFF LINE. USE THE PROGRAMMER OR
MAINTENANCE CONSOLE TO ANSWER THE
ABOVE QUESTION.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)
01 = ACTION COMPLETE

- SEE THE DATA LAMPS.

DO THE DATA LAMPS EQUAL '385F'?

Y N

|
392
GO TO PAGE 151, STEP 415,
ENTRY POINT EP.

|
1
4
5
H
Z

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MAP 3881-144

J PRINTER/DISPLAY WITH
A
1 OR WITHOUT KEYBOARD
4
5 PAGE 146 OF 192

MAP 3881-146

|
395

- SEE THE TWO CHANNEL SWITCH CONSOLE(S)
- CHANGE THE SELECT SWITCH(ES) TO THIS PROCESSING UNIT
- ENSURE THE MODE SWITCH(ES) IS IN MANUAL MODE
- PRESS AND RELEASE THE RESET PUSHBUTTON(S)
- ENTER 01 WHEN ACTION IS COMPLETE:

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)
 01 = ACTION COMPLETE

- WAIT ONE MINUTE.

THE ALTERNATE CONSOLE WILL PRINT OR DISPLAY AN 'ALT CONS ON' MESSAGE. THE ALTERNATE CONSOLE IS ON LINE AGAIN. CONTINUE IN THE MAP, USING THE ALTERNATE CONSOLE AS INPUT AND OUTPUT. GO TO PAGE 83, STEP 224, ENTRY POINT OE.

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MAP 3881-146

H
U
1
4
1
PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 147 OF 192

MAP 3881-147

|
396
- SEE THE NEAREST TWO CHANNEL SWITCH CONSOLE.
- CHANGE THE SELECT SWITCH TO THE OTHER POSITION.
- PRESS AND RELEASE THE RESET PUSHBUTTON.
- SEE IF THE LAST LINE OF THE CONSOLE MESSAGE IS:

ALT CONS OFF

IS THE LAST LINE OF THE MESSAGE 'ALT CONS OFF'?

Y N

| 397

| - ENTER ON KEYBOARD:

| F01 ENTER/RETURN KEY
| 01 = ACTION COMPLETE

- USING PROGRAMMER CONSOLE:

| (B) 1F (I)
| (B) 0100 (I) (I)

| IS THE ACTION COMPLETE?

| Y N

| | 398

| | COMPLETE THE ACTION AND:

| | GO TO STEP 399,

| | ENTRY POINT ET.

| | 399

| | (ENTRY POINT ET)

| - SEE CONSOLE MESSAGE:

| ERROR - TWO CHANNEL SWITCH WAS
| IN THE WRONG POSITION.

| IS THIS MESSAGE ON THE CONSOLE?

| Y N

| |

| |

| |

1 1 1

5 5 4

1 1 8

J J J

B C D

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MAP 3881-147

J J PRINTER/DISPLAY WITH
J K
1 1 OR WITHOUT KEYBOARD
4 4
9 9 PAGE 150 OF 192

| |
| 406
| - SEE IF THE SELECT SWITCH(ES)
| IS/ARE SET TO THE PROCESSING
| UNIT YOU ARE USING?

| IS/ARE SWITCH(ES) SET TO THE
| PROCESSING UNIT YOU ARE USING?
| Y N

| |
| 407
| - SEE THE TWO CHANNEL SWITCH
| CONSOLE(S)
| - CHANGE THE SELECT
| SWITCH(ES) TO THIS
| PROCESSING UNIT
| - PRESS AND RELEASE THE RESET
| PUSHBUTTON(S)

| THE SELECT SWITCH(ES) IS/ARE
| SET TO THIS PROCESSING UNIT.

- USING PROGRAMMER CONSOLE:
(B) 1F (I)
(B) 0100 (I) (I)
01 = ACTION COMPLETE
GO TO PAGE 83, STEP 224,
ENTRY POINT OE.

| 408
- USING PROGRAMMER CONSOLE:
(B) 1F (I)
(B) 0100 (I) (I)
01 = ACTION COMPLETE
GO TO PAGE 83, STEP 224,
ENTRY POINT OE.

409
GO TO PAGE 141, STEP 384,
ENTRY POINT TG.

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J J J J J PRINTER/DISPLAY WITH
B C E F G
1 1 1 1 1 OR WITHOUT KEYBOARD
4 4 4 4 4
7 7 8 8 8 PAGE 151 OF 192

MAP 3881-151

| | | | |
| | | | 410
| | | | GO TO PAGE 82,
| | | | STEP 222,
| | | | ENTRY POINT SC.
| | | |
| | | | 411
| | | | GO TO PAGE 82,
| | | | STEP 222,
| | | | ENTRY POINT SC.
| | | |
| | | | 412
| | | | GO TO PAGE 82, STEP 222,
| | | | ENTRY POINT SC.
| | | |
| | | | 413
| | | | GO TO PAGE 82, STEP 222,
| | | | ENTRY POINT SC.

414
- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)
 01 = ACTION COMPLETE

- SEE THE DATA LAMPS.

DO THE DATA LAMPS EQUAL '385D'?
Y N

| 415
| (ENTRY POINT EP)
|
| - SEE THE DATA LAMPS.

DO THE DATA LAMPS EQUAL '3834'?
Y N

1 1 1
5 5 5
9 8 2
J J J
L M N

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ECA23101 PECA10990
MAP 3881-151

J
U
1
5
2
PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 153 OF 192

MAP 3881-153

|
421
- SEE THE DATA LAMPS.

DO THE DATA LAMPS EQUAL '3868'?
Y N

|
422
- SEE THE DATA LAMPS.

DO THE DATA LAMPS EQUAL '3869'?
Y N

|
423
GO TO PAGE 147, STEP 399,
ENTRY POINT ET.

|
424
THE DATA LAMPS EQUAL '3869'.

THE CONFIGURATION PROGRAM
CANNOT CONTINUE WITHOUT A
PROGRAMMER OR MAINTENANCE
CONSOLE INSTALLED ON THE
PROCESSING UNIT YOU ARE USING.
INSTALL A PROGRAMMER OR
MAINTENANCE CONSOLE TO
CONTINUE.
THE CONFIGURATION PROGRAM
TERMINATED.

- START OVER IN THIS MAP WHEN A
CONSOLE IS INSTALLED.
GO TO PAGE 2, STEP 001,
ENTRY POINT A.

1
5
4
J
V

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MAP 3881-153

J PRINTER/DISPLAY WITH
V
1 OR WITHOUT KEYBOARD
5
3 PAGE 154 OF 192

|
425
THE DATA LAMPS EQUAL '3868'.

THE ALTERNATE CONSOLE DID NOT DISAPPEAR AFTER THE TWO CHANNEL SWITCH WAS CHANGED. YOU INFORMED THE CONFIGURATION PROGRAM THAT THE CONSOLE WOULD NOT BE AVAILABLE TO IT, BUT WHEN YOU CHANGED THE TWO CHANNEL SWITCH CONSOLE SWITCH, THE ALTERNATE CONSOLE DID NOT DISAPPEAR.

- USING PROGRAMMER CONSOLE:

(B) 6 (I) (I)
6 = RESUME

THE CONFIGURATION PROGRAM WILL TERMINATE.

- START OVER IN THIS MAP. ENSURE ANSWERS ARE CORRECT.
GO TO PAGE 2, STEP 001,
ENTRY POINT A.

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J PRINTER/DISPLAY WITH
T
1 OR WITHOUT KEYBOARD
5
2 PAGE 155 OF 192

MAP 3881-155

|
426
THE DATA LAMPS EQUAL '3867'.

THE ALTERNATE CONSOLE DID NOT
APPEAR AFTER THE TWO CHANNEL
SWITCH WAS CHANGED. YOU INFORMED
THE CONFIGURATION PROGRAM THAT
THE CONSOLE WOULD BE AVAILABLE TO
IT, BUT WHEN YOU CHANGED THE TWO
CHANNEL SWITCH CONSOLE SWITCH,
THE ALTERNATE CONSOLE DID NOT
APPEAR.

- USING PROGRAMMER CONSOLE:

(B) 6 (I) (I)
 6 = RESUME

THE CONFIGURATION PROGRAM WILL
TERMINATE.

- START OVER IN THIS MAP. ENSURE
ANSWERS ARE CORRECT.
GO TO PAGE 2, STEP 001,
ENTRY POINT A.

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MAP 3881-155

J PRINTER/DISPLAY WITH
S
1 OR WITHOUT KEYBOARD
5
2 PAGE 156 OF 192

I
427
THE DATA LAMPS EQUAL '3866'.

THE ALTERNATE CONSOLE DISAPPEARED
AFTER THE TWO CHANNEL SWITCH WAS
CHANGED. YOU INFORMED THE
CONFIGURATION PROGRAM THAT THE
CONSOLE WOULD BE AVAILABLE TO IT,
BUT WHEN YOU CHANGED THE TWO
CHANNEL SWITCH CONSOLE SWITCH,
THE ALTERNATE CONSOLE
DISAPPEARED.

- USING PROGRAMMER CONSOLE:

(B) 6 (I) (I)
 6 = RESUME

THE CONFIGURATION PROGRAM WILL
TERMINATE.

- START OVER IN THIS MAP. ENSURE
ANSWERS ARE CORRECT.
GO TO PAGE 2, STEP 001,
ENTRY POINT A.

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J J PRINTER/DISPLAY WITH
Q R
1 1 OR WITHOUT KEYBOARD
5 5
2 2 PAGE 157 OF 192

MAP 3881-157

| |
| 428
| THE DATA LAMPS EQUAL '3845'.
| THE TWO CHANNEL SWITCH WAS IN
| THE WRONG POSITION. YOU
| CHANGED THE WRONG SWITCH, OR
| FAILED TO CHANGE A SWITCH, WHEN
| INSTRUCTED.

| - USING PROGRAMMER CONSOLE:

| -----
| (B) 6 (I) (I)
| 6 = RESUME

| THE CONFIGURATION PROGRAM WILL
| TERMINATE.

| - START OVER IN THIS MAP. WHEN
| SWITCHING USE THE CORRECT TWO
| CHANNEL SWITCH CONSOLE.
| GO TO PAGE 2, STEP 001,
| ENTRY POINT A.

429
THE DATA LAMPS EQUAL '383C'.
ONE OF THE TWO CHANNEL SWITCHES
CANNOT BE FOUND.
YOU CHANGED THE WRONG SWITCH.

- USING PROGRAMMER CONSOLE:

(B) 6 (I) (I)
 6 = RESUME

THE CONFIGURATION PROGRAM WILL
TERMINATE.

- START OVER IN THIS MAP. WHEN
SWITCHING USE THE CORRECT TWO
CHANNEL SWITCH CONSOLE.
GO TO PAGE 2, STEP 001,
ENTRY POINT A.

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MAP 3881-157

J J PRINTER/DISPLAY WITH
M P
1 1 OR WITHOUT KEYBOARD
5 5
1 2 PAGE 158 OF 192

MAP 3881-158

| |
| 430
| THE DATA LAMPS EQUAL '3837'.
| ONE OF THE TWO CHANNEL SWITCHES
| DID NOT DISAPPEAR.
| YOU CHANGED THE WRONG SWITCH.

| - USING PROGRAMMER CONSOLE:

| -----
| (B) 6 (I) (I)
| 6 = RESUME

| THE CONFIGURATION PROGRAM WILL
| TERMINATE.

| - START OVER IN THIS MAP. WHEN
| SWITCHING USE THE CORRECT TWO
| CHANNEL SWITCH CONSOLE.

| GO TO PAGE 2, STEP 001,
| ENTRY POINT A.

|
431
MORE THAN ONE TWO CHANNEL SWITCH
DISAPPEARED.
YOU CHANGED THE WRONG SWITCH.

- USING PROGRAMMER CONSOLE:

(B) 6 (I) (I)
 6 = RESUME

THE CONFIGURATION PROGRAM WILL
TERMINATE.

- START OVER IN THIS MAP. WHEN
SWITCHING USE THE CORRECT TWO
CHANNEL SWITCH CONSOLE.

GO TO PAGE 2, STEP 001,
ENTRY POINT A.

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MAP 3881-158

E H PRINTER/DISPLAY WITH
B J
8 1 OR WITHOUT KEYBOARD
2 3
5 PAGE 160 OF 192

|
|
| 433

| THE COMMON I/O IS BEING USED BY
| THE CUSTOMER.
| THE CONFIGURATION PROGRAM
| CANNOT CONTINUE THE AUTO
| CONFIGURATION.

- ENTER ON KEYBOARD:
F01 ENTER/RETURN KEY
01 = YES

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

| THE CONFIGURATION PROGRAM WILL
| TERMINATE.

|
434
(ENTRY POINT SS)

- SEE THE INNER STORAGE SIZE
 INSTALLED ON THE SYSTEM.
- ENTER THE INNER STORAGE SIZE AS
 FOLLOWS:

- ENTER ON KEYBOARD:

FOX ENTER/RETURN KEY
03 = 16K INNER STORAGE
07 = 32K INNER STORAGE
0B = 48K INNER STORAGE
0F = 64K INNER STORAGE

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0X00 (I) (I)

- SEE CONSOLE MESSAGE:

ADDRESS TRANSLATOR? 00=NO, 01=YES
ENTER

IS THIS MESSAGE ON THE CONSOLE?
Y N
| |
| |
| |
| |

1 1
6 6
1 1
J J
W X

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MAP 3881-160

J J PRINTER/DISPLAY WITH
W X
1 1 OR WITHOUT KEYBOARD
6 6
0 0 PAGE 161 OF 192

MAP 3881-161

| |
| 435
| - SEE CONSOLE MESSAGE:
|
| ENTRY NOT VALID
|
| IS THIS MESSAGE ON THE CONSOLE?
| Y N
| |
| | 436
| | GO TO PAGE 82, STEP 223,
| | ENTRY POINT TS.
| |
| 437
| THE ENTRY MADE BY YOU IS NOT
| VALID.
| GO TO PAGE 160, STEP 434,
| ENTRY POINT SS.

438
(ENTRY POINT SD)

- SEE IF TRANSLATOR OR EXPANDER
 IS INSTALLED.

IS AN ADDRESS TRANSLATOR OR
EXPANDER INSTALLED?
Y N

| 439
- ENTER ON KEYBOARD:
F00 ENTER/RETURN KEY
00 = NO TRANSLATOR OR
EXPANDER
GO TO PAGE 82, STEP 223,
ENTRY POINT TS.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0000 (I) (I)

1
6
2
J
Y

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MAP 3881-161

J
Y
1
6
1
PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 162 OF 192

|
440
AN ADDRESS TRANSLATOR OR EXPANDER
IS INSTALLED.

- ENTER ON KEYBOARD:

F01 ENTER/RETURN KEY
01 = ADDRESS TRANSLATOR OR
 EXPANDER

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

- SEE CONSOLE MESSAGE:

OXXX = NUMBER OF 16K BLOCKS OF
OUTER STORAGE
ENTER

IS THIS MESSAGE ON THE CONSOLE?

Y N

|
| 441
| GO TO PAGE 82, STEP 223,
| ENTRY POINT TS.

1
6
3
J
Z

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J
Z
1
6
2

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 163 OF 192

MAP 3881-163

|
442

- ENTER ON KEYBOARD:

FOXXX ENTER/RETURN KEY
 XXX = NUMBER OF 16K OUTER
 STORAGE INSTALLED.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0XXX (I) (I)

TOTAL STOR. INST.	CONFIGURATION ENTRIES IN 16K BLOCKS	INNER STOR.	OUTER STOR.
80K	FOF	F0001	
96K	FOF	F0002	
112K	FOF	F0003	
128K	FOF	F0004	
160K	FOF	F0006	
192K	FOF	F0008	
224K	FOF	F000A	
256K	FOF	F000C	
384K	FOF	F0014	
512K	FOF	F001C	
768K	FOF	F002C	
1024K	FOF	F003C	
1536K	FOF	F005C	
2048K	FOF	F007C	

- SEE CONSOLE MESSAGE:

ENTRY NOT VALID

-----+
THIS CHART ASSUMES THAT STORAGE
CARDS ARE INSTALLED CONTINUOUSLY

IS THIS MESSAGE ON THE CONSOLE?

Y N

|
| 443
| GO TO PAGE 82, STEP 223,
| ENTRY POINT TS.
|
|
|
|

1
6
4
K
A

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ECA23101 PECA10990
MAP 3881-163

B B K PRINTER/DISPLAY WITH
C E A
3 3 1 OR WITHOUT KEYBOARD
6 7 6
 3 PAGE 164 OF 192

| |
| | |
| | 444
| | THE ENTRY MADE BY YOU IS NOT
| | VALID.
| | GO TO PAGE 161, STEP 438,
| | ENTRY POINT SD.
| |
| 445

| TO PRINT OR DISPLAY THE SYSTEM
| EQUIPMENT:

- ENTER ON KEYBOARD:
F09 ENTER/RETURN KEY
09 = SYSTEM EQUIPMENT
GO TO PAGE 36, STEP 094,
ENTRY POINT OT.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0900 (I) (I)

446

TO PRINT OR DISPLAY THE
CONFIGURATION TABLE:

- ENTER ON KEYBOARD:

F01 ENTER/RETURN KEY
01 = CONFIGURATION TABLE
GO TO PAGE 36, STEP 094,
ENTRY POINT OT.

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)

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A
Z
3
4

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 165 OF 192

MAP 3881-165

|
|
447

- SEE CONSOLE ERROR MESSAGE:

DEVICE ADDRESS=AA DEVICE ID=IDID

AA IS DEVICE ADDRESS
NN IS CONDITION CODE
TT IS DEVICE TYPE
EE IS TABLE ENTRY NO.
IDID IS DEVICE ID WORD

SEE IF THERE IS MORE THAN ONE
ERROR TYPE MESSAGE, OR MORE THAN
ONE DEVICE ERROR MESSAGE.

THE ALTERNATE CONSOLE MAY BE A
DISPLAY AND THESE ERROR MESSAGES
MAY NOT BE ON THE ALTERNATE
CONSOLE NOW. THEY WERE RECORDED
BEFORE, TO BE USED NOW.

ERROR -
ENTRY EE
AATT.....IDID

OR

ERROR -
DEVICE ADDRESS=00AA DEVICE
ID=IDID

OR

ERROR IN READ ID D.A.=AA CC=NN

OR

ERROR - ID MISMATCH

OR

ANY CONFIGURATION ERROR MESSAGE.

IS THERE MORE THAN ONE ERROR
MESSAGE AS NOTED ABOVE?

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

1 1
7 6
6 6
K K
B C

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ECA23101 PECA10990

MAP 3881-165

K PRINTER/DISPLAY WITH
C OR WITHOUT KEYBOARD
1
6
5 PAGE 166 OF 192

MAP 3881-166

|
448
- SEE THE INFORMATION FROM
BEFORE:

ERROR - IN HARDWARE NOT IN TABLE
DEVICE ADDRESS = 00AA DEVICE ID =
IDID

DID THE ABOVE ERROR MESSAGE PRINT
OR DISPLAY?

Y N

|
| 449
| ERROR - IN TABLE NOT IN
| HARDWARE
| ENTRY XX
| AATT.....IDID

| DID THE ABOVE ERROR MESSAGE
| PRINT OR DISPLAY?

| Y N

|
| 450
| ERROR IN READ ID ADDRESS=XX
| CC=XX

| DID THE ABOVE ERROR MESSAGE
| PRINT OR DISPLAY?

| Y N

|
| 451
| ERROR - ID MISMATCH
| DEVICE ADDRESS = 0AAA
| DEVICE ID = IDID

| DID THE ABOVE ERROR MESSAGE
| PRINT OR DISPLAY?

| Y N

|
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|

1 1 1 1 1
7 7 7 6 6
3 0 0 8 7
K K K K K
D E F G H

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MAP 3881-166

K
H
1
6
6

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 167 OF 192

MAP 3881-167

|
452
ERROR - DEVICE TYPE VS READ I.D.

DID THE ABOVE ERROR MESSAGE PRINT
OR DISPLAY?

Y N

| 453
| DUP ADD XX ENTRY YY & ZZ

| DID THE ABOVE ERROR MESSAGE
| PRINT OR DISPLAY?

| Y N

| 454
| FOR ALL OTHER CONFIGURATION
| ERROR MESSAGES,

| - SEE MAP 0013, SECTION
| 06.02.00.

| 455
| THE ERROR MESSAGE IS:

| DUP ADD XX ENTRY YY & ZZ
| XX = DUPLICATE ADDRESS

| ONE OF THE ENTRIES (YY OR ZZ)
| IN THE TABLE HAS AN ADDRESS
| THAT IS NOT CORRECT.

| - SEE THE ENTRY THAT IS NOT
| CORRECT.

| - CHANGE THE ENTRY.

| GO TO PAGE 71, STEP 193,
| ENTRY POINT MD.

1
6
8
K
J

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MAP 3881-167

K K PRINTER/DISPLAY WITH
G J
1 1 OR WITHOUT KEYBOARD
6 6
6 7 PAGE 168 OF 192

| |
| 456
| THE ERROR MESSAGE IS:
|
| ERROR-DEVICE TYPE VS READ ID
| DEVICE ADDRESS=00AA ID=IDID
| ENTRY XX AATT.....IDID
|
| THE DEVICE TYPE (BYTE 01) AND
| I.D. WORD (BYTE(S) 0E AND OF)
| IN THE INDICATED ENTRY DO NOT
| COMPARE. THE CONFIGURATION
| TABLE MUST BE CHANGED.
|
| - CHANGE THE ENTRY.
| GO TO PAGE 71, STEP 193,
| ENTRY POINT MD.

457
THE ERROR MESSAGE IS:

ERROR - ID MISMATCH
DEVICE ADDRESS=00AA ID=IDID
ENTRY XX AATT.....IDID

THE DEVICE ID AT A DEVICE ADDRESS
ON THE SYSTEM, AS READ BY THE
CONFIGURATION PROGRAM (RETURNED
BY THE ATTACHMENT), IS NOT EQUAL
(DOES NOT MATCH) THE 'IDID' IN
THE ENTRY POSITION OF THE
CONFIGURATION TABLE ERROR.

IS THE ID WORD IN THE
CONFIGURATION TABLE CORRECT?
Y N
|
| 458
| - CHANGE THE CONFIGURATION
| TABLE.
| GO TO PAGE 71, STEP 193,
| ENTRY POINT MD.

1
6
9
K
K

K
K
1
6
8

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 169 OF 192

MAP 3881-169

|
459

- SEE ATTACHMENT ADDRESS FROM BEFORE.
- SEE CORRECT LOGIC FOR VOLTAGE AND JUMPER INFORMATION.
- USE THE MULTIMETER.
- VERIFY THE VOLTAGES TO THE ATTACHMENT CARD POSITION.
- POWER OFF THE SYSTEM.
- REMOVE THE ATTACHMENT CARD.
- VERIFY THE JUMPERS ON THE ATTACHMENT CARD.
- RESEAT THE ATTACHMENT CARD.
- POWER ON THE SYSTEM.
- RUN THE DIAGNOSTIC TO THE FAILURE POINT. IF NO REPAIR:
- EXCHANGE THE ATTACHMENT CARD OF THIS DEVICE WITH A KNOWN GOOD CARD.
- RUN THE CONFIGURATION PROGRAM AGAIN.

DOES THE CONFIGURATION PROGRAM RUN WITHOUT ERRORS?

Y N

|
| 460
| GO TO PAGE 188, STEP 534,
| ENTRY POINT TR.
|

461

- VERIFY THE REPAIR

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MAP 3881-169

K K PRINTER/DISPLAY WITH
E F
1 1 OR WITHOUT KEYBOARD
6 6
6 6 PAGE 170 OF 192

| |
| 462
| ERROR IN READ ID ADDRESS=XX
| CC=XX
|
| THE OIO CONDITION CODE RETURNED
| WAS NOT 00 OR 07.
| - TERMINATE THE CONFIGURATION
| PROGRAM AND GO TO THE DEVICE
| ENTRY MAP PROLOG FOR THE
| FAILING DEVICE.
| GO TO PAGE 189, STEP 536,
| ENTRY POINT DT.

|
463
THE ERROR MESSAGE IS:

ERROR - IN TABLE NOT IN HARDWARE.
ENTRY XX AATT.....IDID

AN ATTACHMENT OR DEVICE AT AN
ADDRESS IS WRITTEN IN THE
CONFIGURATION TABLE ON THE
DISKETTE, BUT IS NOT INSTALLED ON
THE SYSTEM AT THAT ADDRESS.
COMPARE THE CONFIGURATION TABLE
ENTRY WITH THE ADDRESS IN THE
ERROR MESSAGE.

IS AN ATTACHMENT INSTALLED WITH
THE ADDRESS INDICATED IN THE
MESSAGE?

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

1 1
7 7
1 1
K K
L M

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K
N
1
7
1
PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 172 OF 192

MAP 3881-172

|
467

- SEE ATTACHMENT ADDRESS FROM BEFORE.
- SEE CORRECT LOGIC FOR VOLTAGE AND JUMPER INFORMATION.
- USE THE MULTIMETER.
- VERIFY THE VOLTAGES TO THE ATTACHMENT CARD POSITION.
- POWER OFF THE SYSTEM.
- REMOVE THE ATTACHMENT CARD.
- VERIFY THE JUMPERS ON THE ATTACHMENT CARD.
- RESEAT THE ATTACHMENT CARD.
- POWER ON THE SYSTEM.
- RUN THE DIAGNOSTIC TO THE FAILURE POINT.
- IF NO REPAIR, EXCHANGE THE ATTACHMENT CARD OF THIS DEVICE WITH A KNOWN GOOD CARD.
- RUN THE CONFIGURATION PROGRAM AGAIN.

DOES THE CONFIGURATION PROGRAM RUN WITHOUT ERRORS?

Y N

|
| 468
| GO TO PAGE 188, STEP 534,
| ENTRY POINT TR.

|
469

- VERIFY THE REPAIR

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MAP 3881-172

K
Q
1
7
3

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 174 OF 192

MAP 3881-174

|
473

- SEE THE ATTACHMENT ADDRESS FROM BEFORE.
- DETERMINE ITS DEVICE ID.

IS THIS A VALID ID FOR SOME ATTACHMENT ON THE SYSTEM?

Y N

|

| 474

| GO TO MAP 0070, ENTRY POINT A.

|

475

- SEE IF THERE IS ONLY ONE ATTACHMENT ON THE SYSTEM WITH THIS ID.

IS THERE ONLY ONE ATTACHMENT ON THE SYSTEM WITH THIS ID?

Y N

|

| 476

| THERE IS MORE THAN ONE ATTACHMENT WITH THIS ID ON THE SYSTEM.

| TO ISOLATE TO THE FAILING ATTACHMENT,
| GO TO MAP 0070, ENTRY POINT A.

|

|

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1
7
5
K
R

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MAP 3881-174

K
R
1
7
4

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 175 OF 192

MAP 3881-175

|
477

- SEE THE CORRECT LOGIC FOR VOLTAGE AND JUMPER INFORMATION.
- VERIFY THE VOLTAGES TO THE ATTACHMENT CARD POSITION.
- POWER OFF THE SYSTEM.
- REMOVE THE ATTACHMENT CARD.
- VERIFY THE JUMPERS ON THE ATTACHMENT CARD.
- RESEAT THE ATTACHMENT CARD.
- POWER ON THE SYSTEM.
- RUN THE DIAGNOSTIC TO THE FAILURE POINT.
- IF NO REPAIR, EXCHANGE THE ATTACHMENT CARD OF THIS DEVICE WITH A KNOWN GOOD CARD.
- RUN THE CONFIGURATION PROGRAM AGAIN.

DOES THE CONFIGURATION PROGRAM
RUN WITHOUT ERRORS?

Y N

|
| 478
| GO TO PAGE 188, STEP 534,
| ENTRY POINT TR.

|
479

- VERIFY THE REPAIR

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MAP 3881-175

K K PRINTER/DISPLAY WITH
B P
1 1 OR WITHOUT KEYBOARD
6 7
5 3 PAGE 176 OF 192

MAP 3881-176

| |
| 480
| PROBABLE USER ERROR.
|
| - POWER OFF THE SYSTEM.
| - REMOVE THE ATTACHMENT CARD.
| - SEE THE CORRECT LOGIC FOR THE
| JUMPER INFORMATION.
| - VERIFY THE JUMPERS ON THE
| ATTACHMENT CARD.
| - RESEAT THE ATTACHMENT CARD.
| - POWER ON THE SYSTEM.
| - PRESS THE LOAD PUSHBUTTON.

| DOES THE CONFIGURATION PROGRAM
| RUN WITHOUT ERRORS?

| Y N

| |
| | 481
| | - SEE THE CONFIGURATION
| | PROGRAM MAP 3880, 08.01.03.
| | - CORRECT THE CONFIGURATION
| | TABLE.
| | AN ENTRY MUST BE ADDED.
| | GO TO PAGE 74, STEP 201,
| | ENTRY POINT AD.

| |
| 482
| - VERIFY THE REPAIR

483
- SEE IF ARE MORE THAN TWO ERRORS
ARE PRINTED/DISPLAYED ON THE
CONSOLE.

ARE MORE THAN TWO ERRORS ON THE
CONSOLE?

Y N

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

1 1
8 7
7 7
K K
S T

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ECA23101 PECA10990
MAP 3881-176

K PRINTER/DISPLAY WITH
T OR WITHOUT KEYBOARD
1
7
6 PAGE 177 OF 192

MAP 3881-177

|
484
THERE MAY BE A USER ERROR.
VERIFY THE MACHINE HISTORY AND
DETERMINE WITH THE CUSTOMER ANY
CHANGES TO THE SYSTEM
CONFIGURATION. (AN ADD OR DELETE
OF A DEVICE OR FEATURE, OR AN
ADDRESS CHANGE)

ARE THERE ANY USER ERRORS?

Y N

|
| 485
| ERROR - IN HARDWARE NOT IN
| TABLE.
| DEVICE ADDRESS = 00XX DEVICE ID
| = IDID

| ARE BOTH ERROR MESSAGES 'IN
| HARDWARE NOT IN TABLE'?

| Y N

| |
| | 486
| | ERROR - IN TABLE NOT IN
| | HARDWARE.
| | ENTRY XX
| | AATT.....IDID

| ARE BOTH ERROR MESSAGES 'IN
| TABLE NOT IN HARDWARE'?

| Y N

| |
| | 487
| | ERROR IN READ ID ADDRESS=XX
| | CC=XX

| ARE BOTH ERROR MESSAGES
| 'ERROR IN READ ID'
| (CONDITION CODE ERROR(S)?

| Y N

1 1 1 1 1
8 8 8 8 7
6 5 3 2 8
K K K K K
U V W X Y

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MAP 3881-177

K PRINTER/DISPLAY WITH
Y
1 OR WITHOUT KEYBOARD
7
7 PAGE 178 OF 192

|
488
ERROR - ID MISMATCH
DEVICE ADDRESS = 0AAA DEVICE I D
= IDID

ARE BOTH ERROR MESSAGES 'ID
MISMATCH'?
Y N

|
489
| ERROR - IN HARDWARE NOT IN
| TABLE.
| DEVICE ADDRESS = 00XX DEVICE ID
| = IDID

|
| ERROR - IN TABLE NOT IN
| HARDWARE.
| ENTRY XX
| AATT.....IDID

|
| IS THERE ONE OF EACH TYPE ERROR
| MESSAGE?
| Y N

|
| 490
| GO TO PAGE 187, STEP 527,
| ENTRY POINT EE.

|
491
| IS THE SAME ATTACHMENT TYPE IN
| BOTH ERRORS?

|
Y N
|
| 492
| GO TO PAGE 187, STEP 527,
| ENTRY POINT EE.

|
|
|
|
|
|
|
|
|
|
|

1 1
8 7
0 9
K L
Z A

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MAP 3881-178

L PRINTER/DISPLAY WITH
A
1 OR WITHOUT KEYBOARD
7
8 PAGE 179 OF 192

MAP 3881-179

|
493
THE ATTACHMENT(S) ARE ANSWERING
TO THE WRONG ADDRESSES AND
FAILING TO ANSWER TO THE CORRECT
ADDRESSES OR THE ADDRESS JUMPERS
ARE NOT CORRECT.

- SEE THE ATTACHMENT(S) THAT ARE FAILING.
- USE THE MULTIMETER.
- VERIFY THE VOLTAGES TO THE ATTACHMENT CARD(S).
- POWER OFF THE SYSTEM.
- VERIFY THE ADDRESS JUMPERING ON THE ATTACHMENT(S) FAILING.
- IF THE JUMPERING IS CORRECT, RESEAT THE CARD(S).
- POWER ON THE SYSTEM.
- RUN THE DIAGNOSTIC TO THE FAILURE POINT.
- IF NO REPAIR, EXCHANGE THE ATTACHMENT CARD OF THIS DEVICE WITH A KNOWN GOOD CARD.
- RUN THE CONFIGURATION PROGRAM AGAIN.

DOES THE CONFIGURATION PROGRAM
RUN WITHOUT ERRORS?

Y N

|
| 494
| - SEE THE ADDRESS FROM BEFORE.
| GO TO PAGE 189, STEP 536,
| ENTRY POINT DT.

|
495
- VERIFY THE REPAIR

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MAP 3881-179

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PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 181 OF 192

MAP 3881-181

|
499

- SEE THE ATTACHMENT ADDRESS FROM BEFORE.
- SEE THE CORRECT LOGIC FOR VOLTAGE AND JUMPER INFORMATION.
- USE THE MULTIMETER.
- VERIFY THE VOLTAGES TO THE ATTACHMENT CARD POSITION.
- POWER OFF THE SYSTEM.
- REMOVE THE ATTACHMENT CARD.
- VERIFY THE JUMPERS ON THE ATTACHMENT CARD.
- RESEAT THE ATTACHMENT CARD.
- POWER ON THE SYSTEM.
- RUN THE DIAGNOSTIC TO THE FAILURE POINT.
- IF NO REPAIR, EXCHANGE THE ATTACHMENT CARD OF THIS DEVICE WITH A KNOWN GOOD CARD.
- RUN THE CONFIGURATION PROGRAM AGAIN.

DOES THE CONFIGURATION PROGRAM RUN WITHOUT ERRORS?

Y N

|
| 500

- | - SEE IF A CHANNEL REPOWER IS CARD INSTALLED.

|
| IS A CHANNEL REPOWER CARD INSTALLED?

| Y N

|
| | 501
| | GO TO MAP 0070,
| | ENTRY POINT A.

|
|
|
|
|
|
|

1 1
8 8
2 2
L L
D E

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MAP 3881-181

K L L L PRINTER/DISPLAY WITH
X B D E
1 1 1 1 OR WITHOUT KEYBOARD
7 8 8 8
7 0 1 1 PAGE 182 OF 192

| | | |
| | | 502
| | | - EXCHANGE THE CHANNEL
| | | REPOWER CARD WITH A KNOWN
| | | GOOD CARD.
| | | - RUN THE CONFIGURATION
| | | PROGRAM AGAIN.
| | |
| | | DOES THE CONFIGURATION
| | | PROGRAM RUN WITHOUT ERRORS?
| | | Y N
| | | |
| | | | 503
| | | | GO TO MAP 0070,
| | | | ENTRY POINT A.
| | | |
| | | 504
| | | - VERIFY THE REPAIR
| | |
| | 505
| | - VERIFY THE REPAIR
| |
| 506
| - EXCHANGE THE ATTACHMENT CARD.
|
507
ERROR IN READ ID ADDRESS - XX
CC=XX.

DO BOTH ERRORS HAVE A COMMON
ATTACHMENT CARD?
Y N
|
| 508
| THE OIO CONDITION CODE RETURNED
| WAS NOT 00 OR 07.
|
| - SEE THE ADDRESS FROM BEFORE.
| GO TO PAGE 189, STEP 536,
| ENTRY POINT DT.
|
|
|

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3
L
F

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K L PRINTER/DISPLAY WITH
W F
1 1 OR WITHOUT KEYBOARD
7 8
7 2 PAGE 183 OF 192

| |
| 509
| OIO CONDITION CODE NOT 00 OR
| 07.
|
| - SEE THE ADDRESS FROM BEFORE.
| GO TO PAGE 189, STEP 536,
| ENTRY POINT DT.

510
ERROR - IN TABLE NOT IN HARDWARE.
ENTRY XX AATT.....IDID

ARE ATTACHMENT(S) INSTALLED WITH
THE ADDRESSES IN THE ERROR
MESSAGES?

Y N
|
| 511
| THIS IS A PROBABLE USER ERROR.
|
| - CORRECT THE CONFIGURATION
| TABLE.
| GO TO PAGE 36, STEP 094,
| ENTRY POINT OT.

512
- SEE IF THESE ATTACHMENTS ARE
THE LAST TWO ON THE CHANNEL.

ARE THESE ATTACHMENTS THE LAST
TWO ON THE CHANNEL?

Y N
|
| 513
| - SEE IF THESE ATTACHMENT(S)
| ARE NEXT TO EACH OTHER ON THE
| CHANNEL.

ARE THESE ATTACHMENTS NEXT TO
EACH OTHER ON THE CHANNEL?

| Y N
| | |
| | |

1 1 1
8 8 8
5 5 4
L L L
G H J

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L PRINTER/DISPLAY WITH
J
1 OR WITHOUT KEYBOARD
8
3 PAGE 184 OF 192

|
514
(ENTRY POINT DD)

- SEE THE ATTACHMENT ADDRESSES FROM BEFORE.
- SEE THE CORRECT LOGIC FOR VOLTAGE AND JUMPER INFORMATION.
- USE THE MULTIMETER.
- VERIFY THE VOLTAGES TO THE ATTACHMENT CARD POSITION.
- POWER OFF THE SYSTEM.
- REMOVE THE ATTACHMENT CARD.
- VERIFY THE JUMPERS ON THE ATTACHMENT CARD.
- RESEAT THE ATTACHMENT CARD.
- POWER ON THE SYSTEM.
- RUN THE DIAGNOSTIC TO THE FAILURE POINT.
- IF NO REPAIR, EXCHANGE THE ATTACHMENT CARD(S) OF THESE DEVICES WITH KNOWN GOOD CARD(S).
- RUN THE CONFIGURATION PROGRAM AGAIN.

DOES THE CONFIGURATION PROGRAM RUN WITHOUT ERRORS?

Y N

|
| 515
| GO TO PAGE 188, STEP 534,
| ENTRY POINT TR.

|
516
- VERIFY THE REPAIR

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K L L PRINTER/DISPLAY WITH
V G H
1 1 1 OR WITHOUT KEYBOARD
7 8 8
7 3 3 PAGE 185 OF 192

MAP 3881-185

| | |
| | 517
| | THERE MAY BE PROBLEMS WITH
| | THE POLL NETWORK.

- | | - POWER OFF THE SYSTEM.
- | | - SEE THE PROCESSING UNIT LOGICS, AND VERIFY CONTINUITY TO THE SUSPECT DEVICES.
- | | - USE THE MULTIMETER.

| | IF NO REPAIR,
| | GO TO PAGE 184, STEP 514,
| | ENTRY POINT DD.

| | 518
| | THERE MAY BE PROBLEMS WITH THE
| | POLL NETWORK.

- | | - POWER OFF THE SYSTEM.
- | | - SEE THE PROCESSING UNIT LOGICS, AND VERIFY CONTINUITY TO THE SUSPECT DEVICES.
- | | - USE THE MULTIMETER.

| | IF NO REPAIR,
| | GO TO PAGE 184, STEP 514,
| | ENTRY POINT DD.

| | 519
| | ERROR - IN HARDWARE NOT IN TABLE.
| | DEVICE ADDRESS = 00XX DEVICE ID =
| | IDID

| | ARE THE DEVICE ID'S THE SAME FOR
| | BOTH ADDRESSES?

| | Y N

| | 520
| | GO TO MAP 0070, ENTRY POINT A.

1
8
6
L
K

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MAP 3881-185

K L PRINTER/DISPLAY WITH
U K
1 1 OR WITHOUT KEYBOARD
7 8
7 5 PAGE 186 OF 192

| |
| 521
| THE ANSWER FROM AN ATTACHMENT
| IS NOT CORRECT OR THE
| ATTACHMENT ADDRESS IS NOT
| CORRECT.

| IS THE DEVICE ID INSTALLED ON
| THE SYSTEM?

| Y N

| |
| 522
| GO TO MAP 0070,
| ENTRY POINT A.

| 523
| - SEE IF THE SAME ATTACHMENT
| CARD IS USED ON THE ERROR
| DEVICES.

| IS THE SAME ATTACHMENT CARD
| USED ON THE ERROR DEVICES?

| Y N

| |
| 524
| GO TO PAGE 188, STEP 534,
| ENTRY POINT TR.

| 525
| - NOTE THE MAP PROLOG FOR THIS
| ATTACHMENT CARD.
| GO TO PAGE 189, STEP 536,
| ENTRY POINT DT.

| 526
| GO TO PAGE 36, STEP 094,
| ENTRY POINT OT.

K PRINTER/DISPLAY WITH
S OR WITHOUT KEYBOARD
1
7
6 PAGE 187 OF 192

MAP 3881-187

|
527
(ENTRY POINT EE)
THIS MAY BE A USER ERROR.

- VERIFY THE MACHINE HISTORY.
- SEE IF THE CUSTOMER MADE ANY CHANGES TO THE SYSTEM CONFIGURATION. (AN ADD OR DELETE OF A DEVICE OR FEATURE, OR AN ADDRESS CHANGE)

ARE THERE ANY USER ERRORS?

Y N

| 528
| - SEE IF ALL DEVICES HAVING
| CONFIGURATION ERRORS ARE
| INSTALLED IN THE SAME BOARD.

| ARE ALL DEVICES HAVING
| CONFIGURATION ERRORS INSTALLED
| IN THE SAME BOARD?

Y N

| 529
| GO TO PAGE 188, STEP 532,
| ENTRY POINT FF.

| 530
| - SEE THE PROCESSING UNIT LOGIC
| AXXXX OR SOME SIMILAR
| PROCESSING UNIT LOGIC FOR
| VOLTAGES.
| - USE THE MULTIMETER.
| - VERIFY THAT ALL VOLTAGES ARE
| PRESENT ON ALL CARD POSITIONS
| THAT HAVE A CARD INSTALLED.

ARE ALL THE VOLTAGES CORRECT?

Y N

| |
| |
| |

1 1 1
9 8 8
2 8 8
L L L
L M N

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MAP 3881-187

L
S
1
8
8

PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 189 OF 192

MAP 3881-189

|
535
(ENTRY POINT CS)

- SEE IF THIS SYSTEM IS CABLED TO
A TWO CHANNEL SWITCH CARD.

IS A TWO CHANNEL SWITCH CARD
INSTALLED ON THE SYSTEM?

Y N

| 536
(ENTRY POINT DT)

| - TERMINATE CONFIGURATION
PROGRAM.

| - ENTER ON KEYBOARD:

F05 ENTER/RETURN KEY
05 = TERMINATE

- USING PROGRAMMER CONSOLE:

(B) 1F (I)
(B) 0500 (I) (I)

| THE CONFIGURATION PROGRAM WILL
TERMINATE.

| IS THE CONSOLE MESSAGE:

| PT OR RDY
ENTER?

Y N

| 537
| - USE CONFIGURATION ERROR AS
| THE 'ERROR INDICATION' AND
| GO TO MAP 0070,
| ENTRY POINT A.

1 1
9 9
1 0
L L
T U

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MAP 3881-189

L
U
1
8
9
PRINTER/DISPLAY WITH
OR WITHOUT KEYBOARD
PAGE 190 OF 192

MAP 3881-190

|
538
THE MAP PROLOG, SECTION 0.0, HAS
THE ORDER IN WHICH THE MAPS MUST
BE RUN.

- SEE WHICH ATTACHMENT(S) OR
DEVICE(S) ARE FAILING.
- GO TO THE MAP PROLOG FOR THE
ATTACHMENT(S) OR DEVICE(S)
FAILING.
- RUN ALL THE MAPS FOR THE
SUSPECT ATTACHMENT(S) OR
DEVICES.

- ENTER ON KEYBOARD:

BXXXX ENTER/RETURN KEY
XXXX = MAP FROM SECTION 0.0

- USING PROGRAMMER CONSOLE:

(B) B (I)
(B) XXXX (I) (I)

DID THE MAPS CORRECT THE PROBLEM?
Y N

|
| 539
| THE CHANNEL CAN BE THE CAUSE OF
| THE PROBLEM.
| AN ATTACHMENT OR DEVICE MAY
| FAIL BECAUSE OF THE ACTION OF
| ANOTHER ATTACHMENT OR DEVICE.
|
| - USE THE CONFIGURATION PROGRAM
| ERROR(S) AS THE 'FAILURE
| INDICATION' IN MAP 0070.
| GO TO MAP 0070, ENTRY POINT A.
|

540
- VERIFY THE REPAIR

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MAP 3881-190

L L PRINTER/DISPLAY WITH
R T
1 1 OR WITHOUT KEYBOARD
8 8
8 9 PAGE 191 OF 192

| |
| 541
| IF MORE THAN ONE TWO CHANNEL
| SWITCH CARD IS INSTALLED, USE
| THEM FOR ISOLATION.

- | - POWER OFF THE SYSTEM.
- | - EXCHANGE THE TWO CHANNEL
| SWITCH CARD WITH A KNOWN GOOD
| CARD.
- | - POWER ON THE SYSTEM.
- | - RUN THE CONFIGURATION PROGRAM
| AGAIN.

| DID THE CONFIGURATION PROGRAM
| FAIL THE SAME WAY?
| Y N

| |
| | 542
| | - VERIFY THE REPAIR

| |
| 543
| GO TO PAGE 189, STEP 536,
| ENTRY POINT DT.

|
544
- POWER OFF THE SYSTEM.

IF MORE THAN ONE CHANNEL REPOWER
CARD IS INSTALLED, USE THEM FOR
ISOLATION.

- EXCHANGE THE CHANNEL REPOWER
CARD WITH A KNOWN GOOD CARD.
- POWER ON THE SYSTEM.
- RUN THE CONFIGURATION PROGRAM
AGAIN.

DID THE CONFIGURATION PROGRAM
FAIL THE SAME WAY?
Y N

| |
| |
| |

1 1
9 9
2 2
L L
V W

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L L L L L PRINTER/DISPLAY WITH
L P Q V W
1 1 1 1 1 OR WITHOUT KEYBOARD
8 8 8 9 9
7 8 8 1 1 PAGE 192 OF 192

MAP 3881-192

| | | | |
| | | | 545
| | | | - VERIFY THE REPAIR
| | | |
| | | | 546
| | | | GO TO PAGE 189,
| | | | STEP 535,
| | | | ENTRY POINT CS.
| | | |
| | | | 547
| | | | GO TO PAGE 189, STEP 536,
| | | | ENTRY POINT DT.
| | | |
| | | | 548
| | | | GO TO PAGE 189, STEP 536,
| | | | ENTRY POINT DT.
| | | |
| | | | 549
| | | | GO TO PAGE 36, STEP 094,
| | | | ENTRY POINT OT.

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MAP 3881-192

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ENTRY POINTS

FROM	ENTER THIS MAP		

MAP NUMBER	ENTRY POINT	PAGE NUMBER	STEP NUMBER

0020	A	2	001
0020	AC	51	158
0020	AD	60	185
0020	CC	27	083
0020	CD	30	090
0020	CE	9	024
0020	DE	11	029
0020	DO	46	140
0020	DP	173	500
0020	DS	15	044
0020	EL	158	470
0020	ER	15	043
0020	FE	179	517
0020	FP	64	202
0020	IE	19	053
0020	MD	57	173
0020	MO	119	357
0020	OT	20	056
0020	OX	121	365
0020	PR	73	229
0020	PT	29	088
0020	SS	47	145
0020	TC	41	119
0020	TM	24	072
0020	TT	2	002
0020	TU	65	203
0020	TV	116	349
0020	VC	62	192
0020	WD	26	079

EXIT POINTS

EXIT THIS MAP		TO	

PAGE NUMBER	STEP NUMBER	MAP NUMBER	ENTRY POINT

4	011	0020	A
6	016	0020	A
143	431	0020	A
177	510	0020	A
178	514	0020	A
148	447	0070	A
149	448	0070	A
174	503	0070	A
175	504	0070	A
173	501	1470	A
161	482	3870	A
135	413	3881	A
183	530	3881	A

001
(ENTRY POINT A)

- SEE THE DEVICE MAPS PROLOG,
SECTION 5.1 FOR CONFIGURATION
INFORMATION FOR ANY DEVICE.

IF YOU KNOW THAT THE SYSTEM IS
NOT FAILING AND YOU ARE HERE
BECAUSE OF HARDWARE CONFIGURATION
CHANGES, YOU CAN IGNORE ERROR
HALTS AND CHANGE THE
CONFIGURATION TABLE IMMEDIATELY.

THIS MAP IS FOR USE WITH THE
CONFIGURATION PROGRAM AND THE
PROGRAMMER CONSOLE.

BEFORE USING IT READ MAP 0010,
SECTION 08.00.00 TO UNDERSTAND
THE PURPOSE AND FLOW OF THE
CONFIGURATION PROGRAM.

SEE MAP 0010, SECTION:
08.01.04 - ASSEMBLING A
CONFIGURATION TABLE
06.02.00 - CONFIGURATION HALTS.

NOTE

SOME SINGLE ATTACHMENT CARDS
ANSWER SEVERAL ADDRESSES, FOR
EXAMPLE:

IDIDO
4982 SUBSYSTEM
MULTI-LINE CONTROL CARD.
IF ALL FAILING ADDRESSES ARE ON
ONE CARD, COUNT THEM AS A SINGLE
ERROR AT THE BASE ADDRESS.

DO YOU WANT TO IGNORE ERRORS AND
CORRECT THE CONFIGURATION TABLE?

Y N

| 002
| (ENTRY POINT TT)

| - SEE THE DATA LAMPS.

| DO THE DATA LAMPS EQUAL 3822?

| Y N

| | |

| | |

| | |

| | |

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7 | |

9 9 3

A B C

3822 IN THE DATA LAMPS IS:
CONFIGURATION ERROR(S)
01=TERMINATE
02=DISPLAY ERROR(S) IN DATA LAMPS
03=OPTION TABLE
04=BYPASS 2 CHANNEL SWITCH ERRORS

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C
2

CONSOLE INPUT/OUTPUT

MAP 3882-3

PAPER ONLY

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003

- SEE THE DATA LAMPS.

382E IN THE DATA LAMPS IS:
THE OPTION TABLE IS AVAILABLE TO
YOU.

DO THE DATA LAMPS EQUAL 382E?

Y N

004

- SEE THE DATA LAMPS.

3838 IN THE DATA LAMPS IS:
RPQ ON SYSTEM.

DO THE DATA LAMPS EQUAL 3838?

Y N

005

- SEE THE DATA LAMPS.

382A IN THE DATA LAMPS IS:
DISCONNECT CUSTOMER INTERFACE.

DO THE DATA LAMPS EQUAL 382A?

Y N

006

- SEE THE DATA LAMPS.

3801 IN THE DATA LAMPS IS:
ALTERNATE CONSOLE ERROR.

DO THE DATA LAMPS EQUAL
3801?

Y N

007

- SEE THE DATA LAMPS.

3800 IN THE DATA LAMPS IS:
READY ENTER.
3805 IN THE DATA LAMPS IS:
PROGRAM TERMINATED.

DO THE DATA LAMPS EQUAL
3800 OR 3805?

Y N

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9 8 8 7 5 4
D E F G H J

MAP 3882-3

J
3

CONSOLE INPUT/OUTPUT

MAP 3882-4

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008

- SEE THE DATA LAMPS.

3820 IN THE DATA LAMPS IS:
FIRST CONFIGURATION.

DO THE DATA LAMPS EQUAL 3820?

Y N

009

- SEE THE DATA LAMPS.

382X - 386X IN THE DATA LAMPS IS:
A CONFIGURATION ERROR.

DO THE DATA LAMPS EQUAL 382X
THROUGH 386X?

Y N

010

- SEE THE DATA LAMPS.

DO THE DATA LAMPS EQUAL 380X
OR 381X?

Y N

011

THE FAILURE OCCURRED BEFORE
THE CONFIGURATION PROGRAM
WAS LOADED.

- GO TO THE SYSTEM ENTRY
MAP

GO TO MAP 0020,
ENTRY POINT A.

012

HALTS 3800-381F:
SEE MAP 0010, SECTION

06.01.00.

DCP HALTS.

- ANSWER THE HALT IF
NECESSARY, THEN

GO TO PAGE 2, STEP 001,
ENTRY POINT A.

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5 5
K L

MAP 3882-4

H K L
3 4 4

CONSOLE INPUT/OUTPUT

MAP 3882-5

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013

GO TO PAGE 11, STEP 029,
ENTRY POINT DE.

014

GO TO PAGE 62, STEP 192,
ENTRY POINT VC.

015

THE CONFIGURATION PROGRAM HAS
EXECUTED A READ ID COMMAND TO ALL
ADDRESSES, COMPARED IT TO THE
CONFIGURATION TABLE ON THE
DISKETTE AND FOUND NO
DIFFERENCES.

THE CONFIGURATION PROGRAM DOES
NOT CHECK DEVICE DATA IN ANY
ENTRY. IT DOES NOT CHECK ANY
PART OF AN ENTRY FOR TYPE
CODE(S):

3D FLOATING POINT.

A3 OTHER EQUIPMENT MANUFACTURE
DIRECT PROGRAM CONTROL
ATTACHMENT.

A4 4982 SUBSYSTEM ENTRY.

- SEE IF YOU WANT TO CHANGE,
VERIFY OR DISPLAY THE
CONFIGURATION TABLE.

DO YOU WANT TO DO ANY OF THE
ABOVE TO THE CONFIGURATION TABLE?

Y N

| |
| |
| |
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| |

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6 6
M N

MAP 3882-5

5 5

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016

YOU DO NOT WANT TO DISPLAY,
CHANGE OR VERIFY THE
CONFIGURATION TABLE.
THE CONFIGURATION PROGRAM IS
NOT LOADED.
ANY PROGRAM CAN BE LOADED AT
THIS TIME.

- ENTER ON THE CONSOLE:

(B) B (I)
(B) XXXX (I) (I)
 XXXX = PROGRAM TO
 BE LOADED

GO TO MAP 0020, ENTRY POINT A.

017

THE CONFIGURATION PROGRAM IS NOT
LOADED.
TO LOAD THE CONFIGURATION
PROGRAM:

- ENTER ON THE CONSOLE:

(B) B (I)
(B) 38F0 (I) (I)
 38F0 = CONFIGURATION
 PROGRAM

GO TO PAGE 2, STEP 002,
ENTRY POINT TT.

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G
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|
|
|
|
018

CONSOLE INPUT/OUTPUT

MAP 3882-7

PAPER ONLY

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THE DATA LAMPS EQUAL 3801.

AN ALTERNATE CONSOLE IS ASSIGNED IN THE CONFIGURATION TABLE ON THE DISKETTE. A BAD CONDITION CODE WAS RECEIVED FROM THE ALTERNATE CONSOLE.

- ENTER ON THE CONSOLE:

(B) 5 (I) (I)
5 = ASSIGN PROGRAMMER
CONSOLE.

THE PROGRAMMER OR MAINTENANCE CONSOLE IS THE INPUT DEVICE. USE IT TO LOAD THE DEVICE MAP FOR THE SUSPECT ALTERNATE CONSOLE.

- SEE THE MAP PROLOG SECTIONS FOR THE SUSPECT ATTACHMENT OR DEVICE:
- SEE 0.0 - MAP SEQUENCE.
- SEE 1.4 - PROGRAM COMMENTS.
- SEE 4.0 - PROGRAMMER COMMENTS.
- SEE 5.1 - CONFIGURATION INFORMATION.
- SEE MAP 3880, SECTION 08.00.00, FOR CONFIGURATION INFORMATION.

TTY -- PROLOG 4000
3101 -- PROLOG ATTACHMENT
4979 -- PROLOG 4400
4973 -- PROLOG 6800
4974 -- PROLOG 6400
4978 -- PROLOG 4500
4979 -- PROLOG 4400
4980 -- PROLOG F900
5200 -- PROLOG 6A00
52X1 -- PROLOG E400

(STEP 018 CONTINUES)

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MAP 3882-7

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(STEP 018 CONTINUED)
GO TO PAGE 173, STEP 500,
ENTRY POINT DP.

019

THE DATA LAMPS EQUAL 382A.

- DISCONNECT THE CUSTOMER
 INTERFACE

- ENTER ON THE CONSOLE:

(B) 6 (I) (I)
 6 = RESUME

GO TO PAGE 2, STEP 002,
ENTRY POINT TT.

020

THE DATA LAMPS EQUAL 3838.

RPQ ON SYSTEM

THIS IS A NOTE TO THE SERVICE
PERSON THAT AN RPQ IS INSTALLED.
AFTER AN AUTO RUN, THE RPQ
DIAGNOSTICS MUST BE RUN IN MANUAL
MODE. SEE THE RPQ PROLOG,
SECTION 0.0 FOR MORE INFORMATION
ON THE RPQ.

- ENTER ON THE CONSOLE:

(B) 6 (I) (I)
 6 = RESUME

GO TO PAGE 2, STEP 002,
ENTRY POINT TT.

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B D
2 3

CONSOLE INPUT/OUTPUT

MAP 3882-9

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| |
| |
| |
| |

021

THE DATA LAMPS EQUAL 382E.

| THE OPTION TABLE IS AVAILABLE
| TO YOU. THE CONFIGURATION
| TABLE IS IN STORAGE, STARTING
| AT LOCATION X3000.

| DO YOU WANT TO DISPLAY THE
| CONFIGURATION TABLE IN STORAGE?

Y N

| |

022

| YOU DO NOT WANT TO DISPLAY
| THE CONFIGURATION TABLE. YOU
| WANT TO MAKE A CHANGE TO THE
| CONFIGURATION TABLE.

| GO TO PAGE 20, STEP 056,
| ENTRY POINT OT.

| |

023

| GO TO PAGE 15, STEP 044,
| ENTRY POINT DS.

| |

024

(ENTRY POINT CE)

CONFIGURATION ERROR(S)

01=TERMINATE

02=DISPLAY ERROR(S) IN DATA LAMPS

03=OPTION TABLE

04=BYPASS 2 CHANNEL SWITCH ERRORS

IF YOU WANT TO BYPASS ERRORS AND
CHANGE THE CONFIGURATION TABLE,
ANSWER THE FOLLOWING QUESTION
'YES'.

DO YOU WANT TO BYPASS ERRORS AND
CHANGE THE CONFIGURATION TABLE?

Y N

| |

| |

| |

| |

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9 0

P Q

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MAP 3882-9

Q
9

CONSOLE INPUT/OUTPUT

MAP 3882-10

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025

- SEE IF A TWO CHANNEL SWITCH
CARD IS CABLED TO THE
PROCESSING UNIT.

IS A TWO CHANNEL SWITCH CARD
CABLED TO THE PROCESSING UNIT?

Y N

026

- SEE IF YOU WANT TO TERMINATE
THE CONFIGURATION PROGRAM.

DO YOU WANT TO TERMINATE THE
CONFIGURATION PROGRAM?

Y N

027

THERE ARE CONFIGURATION
ERROR(S) ON THE SYSTEM.

- ENTER ON THE CONSOLE:

(B) 1F (I)

(B) 0200 (I) (I)

02 = DISPLAY ERRORS

IS THE CONSOLE ENTRY MADE?

Y N

028

- MAKE THE CONSOLE ENTRY.
GO TO PAGE 11,
STEP 029,
ENTRY POINT DE.

1 1
7 7 1
8 7 1
R S T

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MAP 3882-10

032
 - SEE THE NOTE TO THE RIGHT

WHEN MORE THAN TEN ERRORS ARE RECORDED, THIS MAP CAN ISOLATE THE PROBLEM. IF YOU WANT TO RECORD MORE ERRORS, ANSWER THE FOLLOWING QUESTION YES.

```

+-----+
| CONFIGURATION PROGRAM ERRORS |
+-----+
| *3840 IN HARDWARE, NOT IN TABLE |
+-----+
| *3841 IN TABLE, NOT IN HARDWARE |
+-----+
| *3842 ID MISMATCH |
+-----+
| *3843 TYPE AND ID ARE INCORRECT |
+-----+
| 3844 ERROR IN READ ID |
| REG 3 = DEVICE ADDRESS/ CC |
| REG 4 = DEVICE ID. |
+-----+
| *3849 BAD/NO READ ID FROM CONS. |
+-----+
| 384B CONFIGURATION CHAIN IS |
| LONG. BYTE 02 BIT 01 IN |
| ENTRY IS NOT CORRECT. |
+-----+
| 384D PROGRAM 38F1 |
| TABLE IS NOT ON DISKETTE |
+-----+
| 384F DUPLICATE ADDRESS |
| REG 2 = DEVICE ADDRESS |
| REG 3 = TABLE ENTRY NUMBER |
| REG 4 = TABLE ENTRY NUMBER |
+-----+
| * REG 3 AND 4 CONTENTS |
| REG 3 = AAEE = TABLE ENTRY |
| AA = DEVICE ADDRESS |
| REG 4 = IDID = DEVICE ID. |
+-----+
  
```

DO YOU WANT TO RECORD MORE ERRORS?

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

1 1
 4 3
 W X

1
2 PAPER ONLY

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| 033

- ENTER ON THE CONSOLE:
-
- PRESS THE RESET KEY.
- PRESS THE START KEY.
- WAIT ONE MINUTE.
- SEE THE DATA LAMPS:

3838 IN THE DATA LAMPS IS:
THERE IS AN RPQ INSTALLED.

DO THE DATA LAMPS EQUAL 3838?

Y N

|

| 034

| (ENTRY POINT PQ)

|

- SEE THE DATA LAMPS:

382A IN THE DATA LAMPS IS:
DISCONNECT THE CUSTOMER
INTERFACE.

DO THE DATA LAMPS EQUAL 382A?

Y N

|

| 035

- ENTER ON THE CONSOLE:
-

|

| (B) 1F (I)

| (B) 0300 (I) (I)

| 03 = OPTION TABLE

| GO TO PAGE 15, STEP 043,

| ENTRY POINT ER.

|

| 036

- ENTER ON THE CONSOLE:
-

|

| (B) 6 (I) (I)

| 6 = RESUME

|

- SEE THE DATA LAMPS:

3822 IN THE DATA LAMPS IS:
CONFIGURATION ERROR(S)
01=TERMINATE.
02=DISPLAY ERROR(S) IN DATA
LAMPS.
03=OPTION TABLE.
04=BYPASS 2 CHANNEL SWITCH
ERRORS.

DO THE DATA LAMPS EQUAL 3822?

Y N

|

|

|

|

|

|

1 1 4

4 4 A

Y Z A

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1 1 1 A

2 3 3 1 PAPER ONLY

3

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037

- SEE THE DATA LAMPS:

382E IN THE DATA LAMPS IS:
THE OPTION TABLE IS AVAILABLE TO
YOU.

DO THE DATA LAMPS EQUAL
382E?

Y N

038

GO TO PAGE 158,
STEP 470,
ENTRY POINT EL.

039

GO TO PAGE 15,
STEP 043,
ENTRY POINT ER.

040

- ENTER ON THE CONSOLE:

(B) 1F (I)

(B) 0300 (I) (I)

03 = OPTION TABLE

GO TO PAGE 15, STEP 043,
ENTRY POINT ER.

041

- ENTER ON THE CONSOLE:

(B) 6 (I) (I)

6 = RESUME

GO TO PAGE 13, STEP 034,
ENTRY POINT PQ.

042

GO TO PAGE 11, STEP 029,
ENTRY POINT DE.

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045

- SEE THE NOTE TO THE RIGHT

TO DISPLAY THE CONFIGURATION
ENTRY IN STORAGE:

USE ENTRY NUMBER FROM TABLE TO
SEE LOCATION TO DISPLAY.

ENTER ON THE CONSOLE:

- PRESS THE STOP KEY.
 - PRESS THE SAR KEY.
 - PRESS THE THREE (3) KEY.
 - PRESS THE X KEY.
 - PRESS THE X KEY.
 - PRESS THE O KEY.
- 3XX0 = THE ENTRY NUMBER

- PRESS THE STORE KEY.
- PRESS MAIN STORAGE KEY.
- RECORD THE FOLLOWING:

BYTES 00/01 ARE IN DATA LAMPS.
- PRESS MAIN STORAGE KEY.
BYTES 02/03 ARE IN DATA LAMPS.
- PRESS MAIN STORAGE KEY.
BYTES 04/05 ARE IN DATA LAMPS.
- PRESS MAIN STORAGE KEY.
BYTES 06/07 ARE IN DATA LAMPS.

TO DISPLAY ENTRY NUMBER XX	DISPLAY STORAGE LOCATIONS: FROM	TO
00	3000	300F
01	3010	301F
02	3020	302F
03	3030	303F
04	3040	304F
05	3050	305F
06	3060	306F
07	3070	307F
08	3080	308F
09	3090	309F
0A	30A0	30AF
0B	30B0	30BF
0C	30C0	30CF
0D	30D0	30DF
0E	30E0	30EF
0F	30F0	30FF
10	3100	310F
15	3150	315F
1A	31A0	31AF
20	3200	320F
XX	3XX0	3XXF

IS ALL THE INFORMATION NEEDED
FROM STORAGE DISPLAYED?

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

1 1
7 7
A A
E F

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A A CONSOLE INPUT/OUTPUT
E F
1 1 PAPER ONLY
6 6

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MAP 3882-17

| |
| |
| 046
| - DISPLAY THE CORRECT STORAGE
| LOCATION FOR EACH ENTRY.
| TO DISPLAY THE CONFIGURATION
| TABLE IN STORAGE,
| GO TO PAGE 15, STEP 044,
| ENTRY POINT DS.

|
047
COMPARE THE INFORMATION YOU HAVE
WITH THE INFORMATION FROM THE
CONFIGURATION TABLE ENTRY IN
STORAGE, WHICH YOU RECORDED.

IS THE CONFIGURATION TABLE IN
STORAGE CORRECT?

Y N

|
| 048
| - PRESS THE START KEY.
|
| THE CONFIGURATION TABLE IN
| STORAGE IS NOT CORRECT. SEE
| WHAT CHANGES MUST BE MADE TO
| THE TABLE.
| GO TO PAGE 20, STEP 056,
| ENTRY POINT OT.

|
049
THE CONFIGURATION TABLE IS
CORRECT IN STORAGE.
THE CONFIGURATION PROGRAM MUST BE
TERMINATED.
GO TO PAGE 24, STEP 072,
ENTRY POINT TM.

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MAP 3882-17

ENTER ON THE CONSOLE:

- PRESS THE STOP KEY.
- PRESS THE SAR KEY.
- PRESS THE THREE (3) KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE STORE KEY.
- RECORD ENTRY 00 OF THE CONFIGURATION TABLE AS FOLLOWS:
- PRESS MAIN STORAGE KEY.
BYTES 00/01 ARE IN DATA LAMPS.
- PRESS MAIN STORAGE KEY.
BYTES 02/03 ARE IN DATA LAMPS.
- PRESS MAIN STORAGE KEY.
BYTES 04/05 ARE IN DATA LAMPS.
- PRESS MAIN STORAGE KEY.
BYTES 06/07 ARE IN DATA LAMPS.
- PRESS MAIN STORAGE KEY.
BYTES 08/09 ARE IN DATA LAMPS.

THE CHART SHOWS CONTENTS OF ENTRY ZERO (00). SEE MAP 3880, SECTION 08.01.03.

0/1	02	03	04	05	0607	0809	0A0E	0F
0/0	XX	XX	00	2X	XXXX	XXXX	0000	XX
Z	L	F	N	P	S	A	NOT	R
E	A	L	O	R	T	L	USED	E
R	S	A	T	O	O	T		L
O	T	G		C	R	E		E
R		S	U	E	A	R		A
S	E		S	S	G	N		S
	N		E	S	E	A		E
	T		D	O		T		
	R			R	W	E		L
	Y				O			E
				T	R	C		V
				Y	D	O		E
				P		N		L
				E		S		
						O		
	A					L		
	B					E		
	L							
	E							

DO YOU WANT TO DISPLAY MORE ENTRIES?

Y N

| 051
| GO TO PAGE 19, STEP 053,
| ENTRY POINT IE.

052
GO TO PAGE 15, STEP 044,
ENTRY POINT DS.

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A CONSOLE INPUT/OUTPUT
B
1 PAPER ONLY
5
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053
(ENTRY POINT IE)

- COMPARE THE ERRORS WITH THE
TABLE IN STORAGE.

IS THE TABLE IN STORAGE CORRECT?
Y N

054
THE TABLE IN STORAGE MUST BE
CORRECTED. SEE WHAT ACTION YOU
MUST TAKE TO CORRECT THE TABLE.

- ENTER ON THE CONSOLE:

- PRESS THE START KEY.
(B) 6 (I) (I)
6 = RESUME

IS THE ACTION COMPLETE?
Y N

055
COMPLETE THE ACTION AND:
GO TO PAGE 20, STEP 056,
ENTRY POINT OT.

1
4 2
7 0
A A
G H

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MAP 3882-19

A CONSOLE INPUT/OUTPUT
H
1 PAPER ONLY
9
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MAP 3882-20

|
|
056
(ENTRY POINT OT)

THE OPTION TABLE CAN BE USED BY
YOU TO CHANGE THE CONFIGURATION
TABLE.

OPTION TABLE
'01 = PRINT TABLE
02 = DELETE
03 = CHANGE
04 = ALTERNATE CONSOLE
05 = TERMINATE
06 = PROCESSING UNIT TYPE
07 = TWO CHANNEL SWITCH
08 = STORAGE SIZE
09 = PRINT SYSTEM EQUIPMENT
0A = ADD
0B = BYPASS OPTION TABLE
0C = CONFIGURE SYSTEM
0D = DISKETTE WRITE
0E = OEMI
0F = FLOATING POINT
10 = COMBINE
20 = PRINT OR DISPLAY TABLE.
ENTER'

DO YOU WANT TO CONFIGURE THE
SYSTEM FROM THE START?

Y N

|
| 057
| - SEE IF YOU WANT TO ADD AN
| ENTRY TO THE TABLE.

| DO YOU WANT TO ADD AN ENTRY?

| Y N

6 6 2
1 0 1
A A A
J K L

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MAP 3882-20

A
L
2
0

CONSOLE INPUT/OUTPUT

MAP 3882-21

PAPER ONLY

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|
|
058

- SEE IF YOU WANT TO DELETE AN ENTRY IN THE TABLE.

DO YOU WANT TO DELETE AN ENTRY?

Y N

|
| 059

- SEE IF YOU WANT TO CHANGE AN ENTRY IN THE TABLE.

DO YOU WANT TO CHANGE AN ENTRY?

Y N

|
| 060

- SEE IF YOU WANT TO CHANGE THE ALTERNATE CONSOLE ASSIGNED.

DO YOU WANT TO CHANGE THE ALTERNATE CONSOLE ASSIGNED?

Y N

|
| 061

- SEE IF YOU WANT TO CHANGE THE STORAGE SIZE.

DO YOU WANT TO CHANGE THE STORAGE SIZE?

Y N

|
| 062

- SEE IF YOU WANT TO CHANGE THE PROCESSING UNIT TYPE.

DO YOU WANT TO CHANGE THE PROCESSING UNIT TYPE?

Y N

|
|
|
|
|
|
|
|
|
|

5 5 5 4 4 2
9 7 1 7 5 2
A A A A A A
M N P Q R S

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MAP 3882-21

A
S
2
1

CONSOLE INPUT/OUTPUT

MAP 3882-22

PAPER ONLY

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063

- SEE IF YOU WANT TO MAKE A
FLOATING POINT ENTRY.

DO YOU WANT TO MAKE A FLOATING
POINT ENTRY?

Y N

064

- SEE IF YOU WANT TO MAKE AN
OEMI ENTRY.

DO YOU WANT TO MAKE AN OEMI
ENTRY?

Y N

065

- SEE IF YOU WANT TO MAKE A
TWO CHANNEL SWITCH ENTRY.

DO YOU WANT TO MAKE A TWO
CHANNEL SWITCH ENTRY?

Y N

066

YOU CAN COMBINE A
CONFIGURATION TABLE FROM A
DISKETTE TO THE
CONFIGURATION TABLE ON A
BASIC DISKETTE.
(ONE DISKETTE MUST ALWAYS
BE A BASIC DISKETTE)

DO YOU WANT TO COMBINE
CONFIGURATION TABLES?

Y N

4 4 4 3 2
4 3 1 7 3
A A A A A
T U V W X

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MAP 3882-22

A
X
2
2

CONSOLE INPUT/OUTPUT

MAP 3882-23

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|
|
067

- SEE IF YOU WANT TO WRITE THE
CONFIGURATION TABLE TO THE
DISKETTE.

DO YOU WANT TO WRITE THE
CONFIGURATION TABLE TO DISKETTE?

Y N

|
|
068

- SEE IF YOU WANT TO TERMINATE
THE CONFIGURATION PROGRAM.

DO YOU WANT TO TERMINATE THE
CONFIGURATION PROGRAM?

Y N

|
|
069

- SEE IF YOU WANT TO DISPLAY
THE CONFIGURATION TABLE IN
STORAGE.

DO YOU WANT TO DISPLAY THE
CONFIGURATION TABLE?

Y N

|
|
070

- START AGAIN IN THIS MAP.
- READ AND ANSWER THE
QUESTIONS.
GO TO PAGE 2,
STEP 001,
ENTRY POINT A.

|
|
071

GO TO PAGE 15, STEP 044,
ENTRY POINT DS.

|
|
|
|
|
|
|
|
|
|
|

2 2
6 4
A A
Y Z

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MAP 3882-23

A CONSOLE INPUT/OUTPUT
Z
2 PAPER ONLY
3
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MAP 3882-24

|
|
072
(ENTRY POINT TM)

YOU WANT TO TERMINATE THE
CONFIGURATION PROGRAM.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0500 (I) (I)
 05 = TERMINATE

DO THE DATA LAMPS EQUAL 3826?

Y N

|
| 073
| GO TO PAGE 158, STEP 470,
| ENTRY POINT EL.

|
074
CHANGES NOT WRITTEN - OD=WRITE
DISKETTE, 05=TERMINATE

IF YOU TERMINATE THE
CONFIGURATION PROGRAM WITHOUT
WRITING THE CONFIGURATION TABLE
ON THE DISKETTE, ALL CHANGES TO
THE TABLE WILL BE LOST.

- SEE IF YOU WANT TO DO THIS.

DO YOU WANT TO WRITE THE TABLE TO
THE DISKETTE?

Y N

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

2 2
6 5
B B
A B

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MAP 3882-24

B
B
2
4

CONSOLE INPUT/OUTPUT

MAP 3882-25

PAPER ONLY

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|
|
075

BEFORE YOU TERMINATE THE CONFIGURATION PROGRAM, IF ANY CHANGES WERE MADE TO THE CONFIGURATION TABLE, THEY MUST BE NOTED IN THE CONFIGURATION DEVICE TABLE.

- SEE MAP 3880, SECTION 08.01.04.
- SEE THE MAP(S) PROLOG(S), PARAGRAPH 5.1.

IF A SUPPORTED HARD COPY DEVICE IS AVAILABLE TO YOU ON THE SYSTEM, IT CAN BE USED TO PRINT THE TABLE.

IF A SUPPORTED DISPLAY TYPE DEVICE IS AVAILABLE TO YOU ON THE SYSTEM, IT CAN BE USED TO DISPLAY THE TABLE.

IF NONE OF THE ABOVE ARE AVAILABLE TO YOU, THE TABLE IN STORAGE WILL HAVE TO BE DISPLAYED WITH THE CONSOLE AND DATA LAMPS AND NOTED IN THE TABLE IN THE SERVICE GUIDE.

DO YOU WANT TO SEE THE CONFIGURATION TABLE IN STORAGE?

Y N

|
| 076

| YOU WANT TO TERMINATE THE CONFIGURATION PROGRAM.

|
- ENTER ON THE CONSOLE:

(B)	1F	(I)	
(B)	0500	(I) (I)	
	05	=	TERMINATE

2
6
B
C

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MAP 3882-25

A B B CONSOLE INPUT/OUTPUT
Y A C
2 2 2 PAPER ONLY
3 4 5
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MAP 3882-26

| | |
| | |
| | 077
| | YOU WANT TO DISPLAY THE
| | CONFIGURATION TABLE IN
| | STORAGE.
| | GO TO PAGE 15, STEP 044,
| | ENTRY POINT DS.

| |
| 078
| YOU WANT TO WRITE THE
| CONFIGURATION TABLE TO THE
| DISKETTE.
| GO TO STEP 079,
| ENTRY POINT WD.

079
(ENTRY POINT WD)

YOU WANT TO WRITE THE
CONFIGURATION TABLE TO THE
DISKETTE.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0D00 (I) (I)
OD = WRITE DISKETTE

- WAIT ONE MINUTE.

DO THE DATA LAMPS EQUAL 382C?

Y N

| 080
| - SEE THE DATA LAMPS.

| DO THE DATA LAMPS EQUAL 3800 OR
| 3805?

| Y N

| | 081
| | GO TO PAGE 158, STEP 470,
| | ENTRY POINT EL.

2 2
7 7
B B
D E

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MAP 3882-26

B B CONSOLE INPUT/OUTPUT
D E
2 2 PAPER ONLY
6 6
 PAGE 27 OF 183

MAP 3882-27

| |
| |
| 082
| GO TO PAGE 29, STEP 088,
| ENTRY POINT PT.
|
083
(ENTRY POINT CC)

THE CONFIGURATION TABLE IS
WRITTEN ON THE DISKETTE AND IS IN
STORAGE STARTING AT LOCATION
X3000.

SEE IF ALL DEVICE DATA IS ENTERED
IN THE TABLE.

ENSURE THAT THE FOLLOWING, IF
INSTALLED ON THE SYSTEM, HAVE AN
ENTRY AND DEVICE DATA, IF ANY, IS
CORRECT.

1. COMMUNICATION DEVICE DATA.
2. 4987 SYSTEM DEVICE DATA.
3. 4982 SENSOR I/O (EVEN IF NO
FEATURE CARDS INSTALLED).
4. TYPE CODE (BYTE 01) FOR RPQ
DEVICES EXCEPT 4978 DISPLAY.

SEE THE CONFIGURATION TABLE ENTRY
DESCRIPTIONS IN:

1. THE MAP PROLOG(S) PARAGRAPH
5.1.
2. THE CONFIGURATION PROGRAM
DESCRIPTION, MAP 3880.
3. THE CONFIGURATION PROGRAM
DESCRIPTION, MAP 3880, SECTION
08.01.05, THE DEVICE TABLE.

DO YOU WANT TO CHANGE THE
CONFIGURATION TABLE OR ADD DEVICE
DATA?

Y N
| |
| |
| |

3 2
6 8
B B
F G

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MAP 3882-27

B CONSOLE INPUT/OUTPUT
H
2 PAPER ONLY
8
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MAP 3882-29

|
|
086
ALL THE DISKETTES ARE WRITTEN
WITH THE 'NEW' TABLE.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0500 (I) (I)
05 = TERMINATE PROGRAM

THE CONFIGURATION PROGRAM WILL
TERMINATE.

DO THE DATA LAMPS EQUAL 3800 OR
3805?

Y N

|
| 087
| GO TO PAGE 158, STEP 470,
| ENTRY POINT EL.

|
088
(ENTRY POINT PT)

THE CONFIGURATION PROGRAM MUST BE
RUN TO CHECK FOR CONFIGURATION
ERRORS.

- ENTER ON THE CONSOLE:

(B) B (I)
(B) 38F0 (I) (I)

- WAIT FOR THE CONFIGURATION
PROGRAM TO LOAD.

DO THE DATA LAMPS EQUAL 3838?

Y N

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

3 3
6 0
B B
J K

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MAP 3882-29

B
Q
3
1

|
|
097

- SEE THE NOTE TO THE RIGHT

THE CONFIGURATION TABLE IN STORAGE MUST BE DISPLAYED AND NOTED BEFORE CONTINUING. AFTER THE CONFIGURATION TABLE IS NOTED BY YOU, CONTINUE ON THE YES LEG.

USE ENTRY NUMBER FROM TABLE TO SEE LOCATION TO DISPLAY.

ENTER ON THE CONSOLE:

- PRESS THE STOP KEY.
 - PRESS THE SAR KEY.
 - PRESS THE THREE (3) KEY.
 - PRESS THE X KEY.
 - PRESS THE X KEY.
 - PRESS THE 0 KEY.
- 3XX0 = THE ENTRY NUMBER

- PRESS THE STORE KEY.
- PRESS MAIN STORAGE KEY.
- RECORD THE FOLLOWING:

BYTES 00/01 ARE IN DATA LAMPS.
 - PRESS MAIN STORAGE KEY.
 BYTES 02/03 ARE IN DATA LAMPS.
 - PRESS MAIN STORAGE KEY.
 BYTES 04/05 ARE IN DATA LAMPS.
 - PRESS MAIN STORAGE KEY.
 BYTES 06/07 ARE IN DATA LAMPS.

TO DISPLAY THE CONFIGURATION ENTRY IN STORAGE:

+-----+			
TO	DISPLAY STORAGE		
DISPLAY	LOCATIONS:		
ENTRY			
NUMBER	FROM		TO
XX			
+-----+			
00	3000		300F
01	3010		301F
02	3020		302F
03	3030		303F
04	3040		304F
05	3050		305F
06	3060		306F
07	3070		307F
08	3080		308F
09	3090		309F
0A	30A0		30AF
0B	30B0		30BF
0C	30C0		30CF
0D	30D0		30DF
0E	30E0		30EF
0F	30F0		30FF
10	3100		310F
15	3150		315F
1A	31A0		31AF
20	3200		320F
XX	3XX0		3XXF
+-----+			

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B B CONSOLE INPUT/OUTPUT
S T
3 3 PAPER ONLY
4 4

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MAP 3882-35

| |
| |
| 101
| BYTE 02 BIT 6 MUST BE ENTERED
| IN EACH TWO CHANNEL SWITCH
| ENTRY IN THE CONFIGURATION
| TABLE.

NOTE
IF ONE TWO CHANNEL SWITCH IS
INSTALLED, SEE THE ENTRY FOR
THE TWO CHANNEL SWITCH.
DEVICE TYPE = 3E, I.D. = 0030
OR
DEVICE TYPE = 3F, I.D. = 003C
BYTE 02, BIT 06 MUST BE SET
'OFF'.
IT DOES NOT NEED BYTE 02, BIT
06 SET 'ON'.

| IF MORE THAN ONE TWO CHANNEL
| SWITCH IS INSTALLED, EACH ONE
| IS 'COMMON I/O' TO THE OTHER
| ONE, WHEN BOTH ARE SWITCHED TO
| THE SAME PROCESSING UNIT.

| THE CONFIGURATION PROGRAM WILL
| DO THIS FOR YOU.
| GO TO PAGE 41, STEP 119,
| ENTRY POINT TC.

| 102
THERE ARE NO CONFIGURATION ERRORS
ON THE SYSTEM.

- TERMINATE THE CONFIGURATION
PROGRAM.
GO TO PAGE 24, STEP 072,
ENTRY POINT TM.

B B B CONSOLE INPUT/OUTPUT
F J L
2 2 3 PAPER ONLY
7 9 0
PAGE 36 OF 183

MAP 3882-36

| | |
| | |
| | 103
| | - DISCONNECT THE CUSTOMER
| | INTERFACE
| |
| | - ENTER ON THE CONSOLE:
| | -----
| | (B) 6 (I) (I)
| | 6 = RESUME
| |
| | DO THE DATA LAMPS EQUAL 3822?
| | Y N
| | |
| | 104
| | GO TO PAGE 30,
| | STEP 090,
| | ENTRY POINT CD.
| | |
| | 105
| | GO TO PAGE 9, STEP 024,
| | ENTRY POINT CE.
| | |
| | 106
| | RPQ ON SYSTEM.
| |
| | - ENTER ON THE CONSOLE:
| | -----
| | (B) 6 (I) (I)
| | 6 = RESUME
| |
| | GO TO PAGE 2, STEP 001,
| | ENTRY POINT A.
| | |
| | 107
| | DETERMINE THE CHANGE YOU WANT TO
| | MAKE.
| | GO TO PAGE 20, STEP 056,
| | ENTRY POINT OT.

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MAP 3882-36

|
|
114
(ENTRY POINT ME)

AN ENTRY IN THE 'FROM' DISKETTE TABLE IS THE SAME AS AN ENTRY IN THE 'TO' (BASIC) DISKETTE TABLE, BUT THE DEVICE DATA IS NOT THE SAME. THE 'TO' (BASIC) ENTRY WAS USED IN THE COMBINED CONFIGURATION TABLE. TO ENSURE THE NEW (COMBINED) CONFIGURATION TABLE ON THE BASIC DISKETTE IS CORRECT, SEE IF THE 'TO' ERROR(S) IS THE ENTRY YOU WANT IN THE COMBINED CONFIGURATION TABLE, AS SEEN ON THE RIGHT.

- ENTER ON THE CONSOLE:

- PRESS THE STOP KEY.
 - ENSURE LEVEL THREE (3).
 - DISPLAY REGISTER 1.
 - DISPLAY REGISTER 2.
 - PRESS THE SAR KEY.
 - PRESS XXXX KEYS.
- XXXX = CONTENTS OF REGISTER 2.

IF YOU WANT TO DISPLAY THE 'FROM' ERROR(S) USE THE ADDRESS FROM REGISTER 1.

- PRESS THE STORE KEY.
- PRESS MAIN STORAGE KEY EIGHT (8) TIMES.

RECORD THE DATA LAMPS EACH TIME. THIS IS THE 'TO' ENTRY ERROR.

- PRESS THE START KEY.
- PRESS THE DATA BUFFER KEY.
- PRESS THE SIX (6) KEY.
- PRESS THE INTERRUPT KEY.
- PRESS THE INTERRUPT KEY.

DO THE DATA LAMPS EQUAL 382E?

Y N
|
| 115
| GO TO STEP 114,
| ENTRY POINT ME.

|
|
|
|
|
|
|
|
|
|

4
0
B
W

B
W
3
9

CONSOLE INPUT/OUTPUT

MAP 3882-40

PAPER ONLY

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|
|

116

IF THERE ARE TWO DEVICES WITH THE SAME ADDRESS AND DIFFERENT DEVICE DATA, THE PROGRAM USES THE ENTRY FROM THE BASIC DISKETTE IN THE COMBINED TABLE. IF THIS IS NOT WHAT YOU WANT, THE TABLE MUST BE CHANGED.

SEE THE RECORDED DATA LAMPS. (THESE ARE THE NUMBERS RECORDED AFTER DISPLAYING THE STORAGE ADDRESS OBTAINED FROM REGISTER 2. THE CONFIGURATION TABLE USED THIS ENTRY FOR THE COMBINED TABLE. THIS IS THE 'TO' ENTRY FROM THE BASIC DISKETTE. SEE IF THIS IS THE ENTRY YOU WANT TO USE IN THE COMBINED TABLE.

IS THIS THE ENTRY YOU WANT TO USE IN THE COMBINED CONFIGURATION TABLE?

Y N

|

| 117

| THE ERROR ENTRY MUST BE CHANGED.

| CHANGE THE 'TO' ENTRY TO THE CORRECT INFORMATION.

| GO TO PAGE 57, STEP 173,

| ENTRY POINT MD.

|

118

GO TO PAGE 26, STEP 079,
ENTRY POINT WD.

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MAP 3882-40

A CONSOLE INPUT/OUTPUT
V
2 PAPER ONLY
2
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MAP 3882-41

|
|
119
(ENTRY POINT TC)

- SEE THE NOTE TO THE RIGHT
- SEE ALL 'COMMON I/O' ENTRIES IN CONFIGURATION TABLE.
- SEE IF ALL THE 'COMMON I/O' ENTRIES HAVE BYTE 02, BIT 06 SET TO A 'ONE' (1).

THIS BIT 'ON' INFORMS THE CONFIGURATION PROGRAM THAT THE DEVICE IS INSTALLED AS 'COMMON I/O'.

NOTE

IF ONE TWO CHANNEL SWITCH IS INSTALLED, SEE THE ENTRY FOR THE TWO CHANNEL SWITCH.
DEVICE TYPE = 3E, I.D. = 0030
 OR
DEVICE TYPE = 3F, I.D. = 003C
BYTE 02, BIT 06 MUST BE SET 'OFF'.
IT DOES NOT NEED BYTE 02, BIT 06 SET 'ON'.

IF MORE THAN ONE TWO CHANNEL SWITCH IS INSTALLED, EACH ONE IS 'COMMON I/O' TO THE OTHER ONE, WHEN BOTH ARE SWITCHED TO THE SAME PROCESSING UNIT.

IS THE BIT 'ON' FOR ALL 'COMMON I/O' ENTRIES?

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

4 4
3 2
B B
X Y

COMMON I/O

THE I/O ATTACHMENT CARD(S) THAT ARE USED BY BOTH PROCESSING UNITS.
THE I/O ATTACHMENT OR DEVICE CARD(S) CAN BE INSTALLED IN THE SAME BOARD AS THE TWO CHANNEL SWITCH OR THE I/O ATTACHMENT OR DEVICE CARD(S) CAN BE INSTALLED OUTBOARD OF THE TWO CHANNEL SWITCH BOARD IN ANOTHER EXPANSION BOARD.

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MAP 3882-41

B CONSOLE INPUT/OUTPUT
Y
4 PAPER ONLY
1
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|
|

120

- SEE THE ENTRY IN THE TABLE THAT IS INSTALLED AS 'COMMON I/O'.

THIS ENTRY MUST HAVE BYTE 02, BIT 06 SET 'ON'.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0700 (I) (I)
07 = TWO CHANNEL SWITCH

DO THE DATA LAMPS EQUAL 383A?

Y N

|
|

121

| GO TO PAGE 158, STEP 470,
| ENTRY POINT EL.

|

122

- ENTER THE CONFIGURATION TABLE ENTRY NUMBER OF A 'COMMON I/O' DEVICE.

DO THE DATA LAMPS EQUAL 382E?

Y N

|
|

123

| GO TO PAGE 158, STEP 470,
| ENTRY POINT EL.

|

124

- SEE IF ALL 'COMMON I/O' ENTRIES IN TABLE HAVE BYTE 02 BIT 06 'ON'.

DO ALL THE 'COMMON I/O' DEVICES HAVE THE BIT 'ON'?

Y N

| |
| |
| |

4 4

3 3

B C

Z A

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A C CONSOLE INPUT/OUTPUT
T B
2 4 PAPER ONLY
2 3
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|
|
| 130
| SEE THE ADDRESS OF THE OEMI
| CARD.

| - ENTER ON THE CONSOLE:

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

| - WAIT ONE MINUTE.

| DO THE DATA LAMPS EQUAL 382E?
| Y N

|
| 131
| GO TO PAGE 158, STEP 470,
| ENTRY POINT EL.

|
| 132
| THE OEMI ATTACHMENT ENTRY IS IN
| THE CONFIGURATION TABLE.
| GO TO PAGE 46, STEP 140,
| ENTRY POINT DO.

|
133
YOU WANT TO ADD A FLOATING POINT
ENTRY IN THE TABLE.

- ENTER ON THE CONSOLE:

| -----
| (B) 1F (I)
| (B) 0F00 (I) (I)
| 0F = FLOATING POINT

DO THE DATA LAMPS EQUAL 382E?
Y N

|
| 134
| GO TO PAGE 158, STEP 470,
| ENTRY POINT EL.

4
5
C
C

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A C CONSOLE INPUT/OUTPUT

MAP 3882-45

R C

2 4 PAPER ONLY

1 4

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| |

| |

| 135

| THE FLOATING POINT ENTRY IS IN
| THE CONFIGURATION TABLE.

| GO TO PAGE 46, STEP 140,

| ENTRY POINT DO.

|

136

YOU WANT TO CHANGE THE PROCESSING
UNIT TYPE IN THE TABLE.

- ENTER ON THE CONSOLE:

(B) 1F (I)

(B) 0600 = (I) (I)

 06 = PROCESS UNIT TYPE

DATA LAMPS EQUAL 3827?

Y N

|

| 137

| GO TO PAGE 158, STEP 470,

| ENTRY POINT EL.

|

138

- ENTER PROCESSING UNIT TYPE IN
THE CONFIGURATION TABLE.

2X = 495X

- ENTER ON THE CONSOLE:

(B) 1F (I)

(B) 2X00 (I) (I)

 2X = 495X PROCESS UNIT

DO THE DATA LAMPS EQUAL 382E?

Y N

|

| 139

| GO TO PAGE 158, STEP 470,

| ENTRY POINT EL.

|

|

|

|

|

4

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C

D

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MAP 3882-45

C
D
4
5
CONSOLE INPUT/C PUT
PAPER ONLY
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MAP 3882-46

|
|
140
(ENTRY POINT DO)

DO YOU WANT TO DO ANY OTHER
OPTIONS IN THE PROGRAM?

Y N

|
| 141
| - SEE IF THERE ARE
| CONFIGURATION ERROR(S) TO
| CORRECT.

| ARE THERE ANY CONFIGURATION
| ERROR(S) TO CORRECT?

| Y N

|
| 142
| YOU ARE DONE WITH THE
| CONFIGURATION PROGRAM.
| THE NEW TABLE MUST BE
| WRITTEN ON THE DISKETTE.
| GO TO PAGE 26, STEP 079,
| ENTRY POINT WD.

|
| 143
| GO TO PAGE 20, STEP 056,
| ENTRY POINT OT.

|
144
GO TO PAGE 20, STEP 056,
ENTRY POINT OT.

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MAP 3882-46

A CONSOLE INPUT/OUTPUT

Q
2 PAPER ONLY

1
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|
|
145
(ENTRY POINT SS)

YOU WANT TO CHANGE THE STORAGE
SIZE IN THE TABLE.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0800 (I) (I)
08 = STORAGE SIZE

DATA LAMPS EQUAL 3850?

Y N
|
| 146
| GO TO PAGE 158, STEP 470,
| ENTRY POINT EL.

|
147
(ENTRY POINT SI)

DETERMINE THE INNER STORAGE SIZE
INSTALLED. ENTER THE INNER
STORAGE SIZE AS FOLLOWS:

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0X00 (I) (I)
03 = 16K INNER STORAGE
07 = 32K INNER STORAGE
0B = 48K INNER STORAGE
0F = 64K INNER STORAGE

- SEE THE DATA LAMPS:

DO THE DATA LAMPS EQUAL 3851?

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

4 4
8 8
C C
E F

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C C CONSOLE INPUT/OUTPUT
E F
4 4 PAPER ONLY
7 7
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MAP 3882-48

| |
| |
| 148
| - SEE THE DATA LAMPS:
|
| DO THE DATA LAMPS EQUAL 3823?
| Y N
| |
| 149
| GO TO PAGE 46, STEP 140,
| ENTRY POINT DO.
| |
| 150
| THE ENTRY MADE BY YOU IS NOT
| VALID.
|
- ENTER ON THE CONSOLE:
(B) 6 (I) (I)
6 = RESUME
GO TO PAGE 47, STEP 147,
ENTRY POINT SI.
151
- SEE IF AN ADDRESS
 EXPANDER/TRANSLATOR IS
 INSTALLED.

IS AN ADDRESS EXPANDER/TRANSLATOR
INSTALLED?
Y N
|
| 152
- ENTER ON THE CONSOLE:
(B) 1F (I)
(B) 0000 (I) (I)
00 = NOT INSTALLED
GO TO PAGE 46, STEP 140,
ENTRY POINT DO.

4
9
C
G

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MAP 3882-48

C
K
5
1

CONSOLE INPUT/OUTPUT

MAP 3882-52

PAPER ONLY

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160

- SEE THE NOTE TO THE RIGHT
- ENTER ALTERNATE CONSOLE DEVICE
TYPE AND ADDRESS:

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) AATT (I) (I)
TT = DEVICE TYPE
AA = DEVICE ADDRESS

IF AN ALTERNATE CONSOLE IS NOT
INSTALLED, ENTER 0000.

- WAIT ONE MINUTE

AN ALTERNATE CONSOLE IS:	MAP/ TYPE	AA TT
4973 PRINTER	6800	AA68
4974 PRINTER	6400	AA64
5200 PRINTERS	6A00	AA6A
MULTIFUNCTION	E600	AAE6
3101-7485-4975		
3101 RPQ D02350	81F0	AA81
3101 ACCA SL	E800	AAE8
3101 ACCA ML	E900	AAE9
3101 FPMLC	EA00	AAEA
4978	4500	AA45
4979	4400	AA44
4980	F900	AAF9
7485 RPQ D02350	81FX	AA81
TTY ATTACHMENT %	4000	AA40
5251/5291	E400	AAE4

DO THE DATA LAMPS EQUAL 382E?

Y N

161

- SEE THE DATA LAMPS.

3824 IN THE DATA LAMPS IS:
SELECT THE CONSOLE TO BE ASSIGNED

- 00 = 3101 DISPLAY
- 01 = 7485 MODEL 53 DISPLAY
- 02 = 7485 MODEL 63 DISPLAY
- 03 = 4975 MODEL 01L PRINTER
- 04 = 4975 MODEL 02L PRINTER

DO THE DATA LAMPS EQUAL 3824?

Y N

5 5 5
6 6 3
C C C
L M N

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MAP 3882-52

C
N
5
2

CONSOLE INPUT/OUTPUT

MAP 3882-53

PAPER ONLY

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|
|
162

- SEE THE DATA LAMPS.

3830 IN THE DATA LAMPS IS:
5200 SERIES PRINTER ADDRESS = 0X

DO THE DATA LAMPS EQUAL 3830?

Y N

|
| 163

- SEE THE DATA LAMPS.

3832 IN THE DATA LAMPS IS:
ALTERNATE CONSOLE ASSIGNED IS THE
PROGRAMMER/MAINTENENCE CONSOLE.

DO THE DATA LAMPS EQUAL 3832?

Y N

|
| 164

- SEE THE DATA LAMPS.

3831 IN THE DATA LAMPS IS:
ALTERNATE CONSOLE ASSIGNED IS A
52X1 DISPLAY

DO THE DATA LAMPS EQUAL 3831?

Y N

|
| 165

- SEE THE DATA LAMPS.

383F IN THE DATA LAMPS IS:
PORT/LINE SPEED/TERMINAL ADDRESS
= ZYXX
Z = PORT ADDRESS
Y = LINE SPEED 0=100K
1=250K
2=500K
XX = TERMINAL ADDRESS

DO THE DATA LAMPS EQUAL
383F?

Y N

|
| 166
| GO TO PAGE 158,
| STEP 470,
| ENTRY POINT EL.

5 5 5 5
5 5 4 4
C C C C
P Q R S

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MAP 3882-53

C C CONSOLE INPUT/OUTPUT
R S
5 5 PAPER ONLY
3 3
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MAP 3882-54

| |
| |
| 167
| A 4980 IS ASSIGNED AS THE
| CONSOLE IN THE TABLE. THE
| SUBADDRESS AND LINE SPEED MUST
| BE ENTERED IN THE CONFIGURATION
| TABLE.

- ENTER ON THE CONSOLE:

(B) IF (I)
(B) ZYXX (I) (I)
 Z = PORT ADDRESS 0-1
 Y = LINE SPEED 0=100K
 1=250K
 2=500K

 XX = TERMINAL ADDRESS

GO TO PAGE 56, STEP 172,
ENTRY POINT XX.

168
A 5251/5291 IS ASSIGNED AS THE
CONSOLE IN THE TABLE. THE CABLE
ADDRESS AND STATION ADDRESS MUST
BE ENTERED IN THE CONFIGURATION
TABLE.

- ENTER ON THE CONSOLE:

(B) IF (I)
(B) XY00 (I) (I)
 X = CABLE ADDRESS 0-3
 Y = STATION ADDRESS 0-6

GO TO PAGE 56, STEP 172,
ENTRY POINT XX.

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MAP 3882-54

C C CONSOLE INPUT/OUTPUT
P Q
5 5 PAPER ONLY
3 3

PAGE 55 OF 183

MAP 3882-55

| |
| |
| 169
| THE PROGRAMMER OR MAINTENENCE
| CONSOLE IS ASSIGNED AS THE
| CONSOLE IN THE CONFIGURATION
| TABLE.

- ENTER ON THE CONSOLE:

| (B) 6 (I) (I)
| 6 = RESUME
| GO TO PAGE 56, STEP 172,
| ENTRY POINT XX.

|
170
- SEE THE CONSOLE TO BE ASSIGNED.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0X00 (I) (I)
 WHERE X = PAAA
 P = PORT NUMBER 0 - 1
 AAA = PRINTER ADDRESS 0 - 6

GO TO PAGE 56, STEP 172,
ENTRY POINT XX.

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MAP 3882-55

C C CONSOLE INPUT/OUTPUT
L M
5 5 PAPER ONLY
2 2
 PAGE 56 OF 183

MAP 3882-56

| |
| |
| 171
| - SEE THE CONSOLE TO BE
| ASSIGNED.
|
- ENTER ON THE CONSOLE:
(B) 1F (I)
(B) 0X00 (I) (I)
0 = 3101 DISPLAY
1 = 7485 MOD 53 DISPLAY
2 = 7485 MOD 63 DISPLAY
3 = 4975 MOD 01L PRINTER
4 = 4975 MOD 02L PRINTER

| GO TO STEP 172,
| ENTRY POINT XX.

172
(ENTRY POINT XX)

THE ALTERNATE CONSOLE IS
ASSIGNED.
YOU MUST WRITE THE NEW
CONFIGURATION TABLE TO DISKETTE.
THE ALTERNATE CONSOLE ASSIGNED BY
YOU CAN BE USED AFTER THE TABLE
IS WRITTEN ON THE DISKETTE AND
YOU IPL THE SYSTEM.
GO TO PAGE 26, STEP 079,
ENTRY POINT WD.

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MAP 3882-56

A CONSOLE INPUT/OUTPUT
N
2 PAPER ONLY
1
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MAP 3882-57

|
|
173
(ENTRY POINT MD)

383A IN THE DATA LAMPS IS:
THE TABLE ENTRY NUMBER TO BE
CHANGED.

YOU WANT TO CHANGE AN ENTRY IN
THE TABLE:

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0300 (I) (I)
 03 = CHANGE

DO THE DATA LAMPS EQUAL 383A?

Y N

| 174
| GO TO PAGE 158, STEP 470,
| ENTRY POINT EL.

175

- ENTER THE CONFIGURATION TABLE
ENTRY NUMBER YOU WANT TO
CHANGE:

3846 IN THE DATA LAMPS IS:
ENTER THE DATA

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) XX00 (I) (I)
 XX = ENTRY NUMBER

DO THE DATA LAMPS EQUAL 3846?

Y N

| 176
| GO TO PAGE 158, STEP 470,
| ENTRY POINT EL.

5
8
C
T

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MAP 3882-57

C CONSOLE INPUT/OUTPUT
T
5 PAPER ONLY
7
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MAP 3882-58

|
|
177
THE ENTRY NEED ONLY BE MADE UP TO
AND INCLUDING THE WORD TO BE
CHANGED.
THE CONFIGURATION PROGRAM WILL
NOT CHANGE THE REMAINDER OF THE
ENTRY.
THE REMAINDER OF THE ENTRY WILL
REMAIN THE SAME.

THE ENTRY TO BE CHANGED MUST BE
ENTERED AS FOLLOWS:

TO CHANGE THE ENTRY, (ALL EIGHT
(8) WORDS), DO AS FOLLOWS:

- ENTER ON THE CONSOLE:

(B) 8F (I)
(B) XXXX (I) (I)

DO THE DATA LAMPS EQUAL 382E?
Y N

|
| 178
| GO TO PAGE 158, STEP 470,
| ENTRY POINT EL.

|
179
THE ENTRY IS CHANGED IN THE
CONFIGURATION TABLE.
GO TO PAGE 46, STEP 140,
ENTRY POINT DO.

TO CHANGE THE FIRST (ONE) WORD OF
THE ENTRY, DO AS FOLLOWS:

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) XXXX (I) (I)

TO CHANGE THE FIRST THREE (3)
WORDS OF THE ENTRY, DO AS
FOLLOWS:

- ENTER ON THE CONSOLE:

(B) 3F (I)
(B) XXXX (I)
(B) XXXX (I)
(B) XXXX (I) (I)

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MAP 3882-58

A CONSOLE INPUT/OUTPUT
M
2 PAPER ONLY
1
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MAP 3882-59

180
YOU WANT TO DELETE AN ENTRY FROM
THE TABLE.

383A IN THE DATA LAMPS IS:
ENTER THE TABLE ENTRY NUMBER TO
BE DELETED.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0200 (I) (I)
 02 = DELETE

DATA LAMPS EQUAL 383A?

Y N

| 181
| GO TO PAGE 158, STEP 470,
| ENTRY POINT EL.

182

- ENTER THE CONFIGURATION TABLE
ENTRY NUMBER YOU WANT TO
DELETE:

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) XX00 (I) (I)
 XX = ENTRY NUMBER

DO THE DATA LAMPS EQUAL 382E?

Y N

| 183
| GO TO PAGE 158, STEP 470,
| ENTRY POINT EL.

184

THE ENTRY IS DELETED FROM THE
CONFIGURATION TABLE.
GO TO PAGE 46, STEP 140,
ENTRY POINT DO.

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MAP 3882-59

A CONSOLE INPUT/OUTPUT
K
2 PAPER ONLY
0
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MAP 3882-60

|
|
185
(ENTRY POINT AD)

383B IN THE DATA LAMPS IS:
ENTER THE DATA

YOU WANT TO ADD AN ENTRY TO THE
TABLE.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0A00 (I) (I)
 0A = ADD

DO THE DATA LAMPS EQUAL 383B?

Y N

|
| 186
| GO TO PAGE 158, STEP 470,
| ENTRY POINT EL.

|
187

- ENTER THE FULL ENTRY YOU WANT
TO ADD TO THE TABLE.

(ALL EIGHT WORDS)

- ENTER THE NEW ENTRY AS FOLLOWS:

- ENTER ON THE CONSOLE:

(B) 8F (I) 8 WORDS TO CHANGE
(B) XXXX (I) WORD 0
(B) XXXX (I) WORD 1
(B) XXXX (I) WORD 2
(B) XXXX (I) WORD 3
(B) XXXX (I) WORD 4
(B) XXXX (I) WORD 5
(B) XXXX (I) WORD 6
(B) XXXX (I) (I) WORD 7

DO THE DATA LAMPS EQUAL 382E?

Y N

| |
| |
| |
| |
| |

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6 6

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1 1

C C

U V

MAP 3882-60

C
W
6
1

CONSOLE INPUT/OUTPUT

PAPER ONLY

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192
(ENTRY POINT VC)

- SEE THE NOTE TO THE RIGHT
- ENTER THE ALTERNATE CONSOLE
DEVICE ADDRESS AND TYPE.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) AATT (I) (I)
TT = DEVICE TYPE
AA = DEVICE ADDRESS

IF AN ALTERNATE CONSOLE IS NOT
INSTALLED, ENTER 0000.

- WAIT ONE MINUTE.

- SEE THE DATA LAMPS.

DO THE DATA LAMPS EQUAL 3829?

Y N

193
(ENTRY POINT VE)

- SEE THE DATA LAMPS.

DO THE DATA LAMPS EQUAL 3832?

Y N

1 1
4 4 6
6 6 3
C C C
X Y Z

AN ALTERNATE CONSOLE IS:	MAP/ TYPE	AA TT
4973 PRINTER	6800	AA68
4974 PRINTER	6400	AA64
5200 PRINTERS	6A00	AA6A
MULTIFUNCTION 3101-7485-4975	E600	AAE6
3101 RPQ D02350	81F0	AA81
3101 ACCA SL	E800	AAE8
3101 ACCA ML	E900	AAE9
3101 FPMLC	EA00	AAEA
4978	4500	AA45
4979	4400	AA44
4980	F900	AAF9
7485 RPQ D02350	81FX	AA81
TTY ATTACHMENT %	4000	AA40
5251/5291	E400	AAE4

3829 IN THE DATA LAMPS IS:
THE ALTERNATE CONSOLE ASSIGNED IS
NOT ATTACHED TO THE SYSTEM.

3832 IN THE DATA LAMPS IS:
THE ALTERNATE CONSOLE ASSIGNED IS
THE PROGRAMMER OR MAINTENANCE
CONSOLE.

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C
Z
6
2

CONSOLE INPUT/OUTPUT

MAP 3882-63

PAPER ONLY

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194

YOU ASSIGNED A DISPLAY OR HARD COPY TYPE ALTERNATE CONSOLE.
- SEE THE DATA LAMPS.

3831 IN THE DATA LAMPS IS:
THE ALTERNATE CONSOLE ASSIGNED IS A 52X1 DISPLAY.

DO THE DATA LAMPS EQUAL 3831?

Y N

195

- SEE THE DATA LAMPS.

3824 IN THE DATA LAMPS IS:
SELECT THE CONSOLE TO BE ASSIGNED
00 = 3101 DISPLAY
01 = 7485 MODEL 53 DISPLAY
02 = 7485 MODEL 63 DISPLAY
03 = 4975 MODEL 01L PRINTER
04 = 4975 MODEL 02L PRINTER

DO THE DATA LAMPS EQUAL 3824?

Y N

196

- SEE THE DATA LAMPS.

3830 IN THE DATA LAMPS IS:
5200 SERIES PRINTER ADDRESS = 0X

DO THE DATA LAMPS EQUAL 3830?

Y N

197

- SEE THE DATA LAMPS.

383F IN THE DATA LAMPS IS:
PORT/LINE SPEED/TERMINAL ADDRESS = ZYXX
Z = PORT ADDRESS
Y = LINE SPEED 0=100K
1=250K
2=500K
XX = TERMINAL ADDRESS

DO THE DATA LAMPS EQUAL 383F?

Y N

1 1 1 1
4 4 4 4 6
5 5 4 4 4
D D D D D
A B C D E

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MAP 3882-63

D
E
6
3

CONSOLE INPUT/OUTPUT

MAP 3882-64

PAPER ONLY

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198

- SEE THE DATA LAMPS.

DO THE DATA LAMPS EQUAL 3800 OR 3805?

Y N

199

(ENTRY POINT ST)

3850 IN THE DATA LAMPS IS:
INNER STORAGE SIZE INSTALLED.

- SEE THE DATA LAMPS.

DO THE DATA LAMPS EQUAL 3850?

Y N

200

(ENTRY POINT TS)

3836 IN THE DATA LAMPS IS:
A TWO CHANNEL SWITCH IS
INSTALLED.

- SEE THE DATA LAMPS.

DO THE DATA LAMPS EQUAL 3836?

Y N

201

(ENTRY POINT OE)

382B IN THE DATA LAMPS IS:
IS AN OEMI ATTACHMENT CARD
INSTALLED?

- SEE THE DATA LAMPS.

DO THE DATA LAMPS EQUAL 382B?

Y N

202

(ENTRY POINT FP)

382D IN THE DATA LAMPS IS:
IS FLOATING POINT INSTALLED?

- SEE THE DATA LAMPS.

DO THE DATA LAMPS EQUAL 382D?

Y N

1 1 1 1 1
3 3 2 1 1 6
5 1 3 8 7 5
D D D D D D
F G H J K L

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MAP 3882-64

D CONSOLE INPUT/OUTPUT
L
6 PAPER ONLY
4
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MAP 3882-65

203
(ENTRY POINT TU)

386B IN THE DATA LAMPS IS:
A TAPE UNIT IS INSTALLED.

- SEE THE DATA LAMPS.

DO THE DATA LAMPS EQUAL 386B?

Y N

204
(ENTRY POINT SF)

386D IN THE DATA LAMPS IS:
A SPEECH CONTROLLER IS INSTALLED.

- SEE THE DATA LAMPS.

DO THE DATA LAMPS EQUAL 386D?

Y N

205
(ENTRY POINT AS)

3853 IN THE DATA LAMPS IS:
AN ACCA SL ATTACHMENT CARD IS
INSTALLED.

- SEE THE NOTE TO THE RIGHT

ACCA SL
EN DA DT RID
EE AA TT XXXX
SPECIFY CODE
ENTER

DO THE DATA LAMPS EQUAL 3853?

Y N

1 1 1
1 1 1 6
6 5 2 6
D D D D
M N P Q

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MAP 3882-65

D CONSOLE INPUT/OUTPUT
Q
6 PAPER ONLY
5
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MAP 3882-66

206
(ENTRY POINT AM)

- SEE THE DATA LAMPS.

3854 IN THE DATA LAMPS IS:
AN ACCA ML ATTACHMENT CARD IS
INSTALLED.

ACCA ML
EN DA DT RID
EE AA TT XXXX
SPECIFY CODE
ENTER

DO THE DATA LAMPS EQUAL 3854?

Y N

207
(ENTRY POINT AI)

- SEE THE DATA LAMPS.

386A IN THE DATA LAMPS IS:
A FPMLC COMMUNICATION IS
INSTALLED.

DO THE DATA LAMPS EQUAL 386A?

Y N

208
(ENTRY POINT MF)

- SEE THE DATA LAMPS.

386C IN THE DATA LAMPS IS:
A MULTIFUNCTION IS INSTALLED.

DO THE DATA LAMPS EQUAL 386C?

Y N

1 1
0 0 9 6
8 2 7 7
D D D D
R S T U

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MAP 3882-66

D
U
6
6

CONSOLE INPUT/OUTPUT

MAP 3882-67

PAPER ONLY

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209

(ENTRY POINT BS)

- SEE THE DATA LAMPS.

3855 IN THE DATA LAMPS IS:

A BSCA SL ATTACHMENT CARD IS
INSTALLED.

BSCA SL

EN DA DT RID

EE AA TT XXXX

SPECIFY CODE

ENTER

DO THE DATA LAMPS EQUAL 3855?

Y N

210

(ENTRY POINT BM)

- SEE THE DATA LAMPS.

3856 IN THE DATA LAMPS IS:

A BSCA ML ATTACHMENT CARD IS
INSTALLED.

BSCA ML

EN DA DT RID

EE AA TT XXXX

SPECIFY CODE

ENTER

DO THE DATA LAMPS EQUAL 3856?

Y N

211

(ENTRY POINT SD)

- SEE THE DATA LAMPS.

3857 IN THE DATA LAMPS IS:

AN SDLC ATTACHMENT CARD IS
INSTALLED.

SDLC

EN DA DT RID

EE AA TT XXXX

SPECIFY CODE

ENTER

DO THE DATA LAMPS EQUAL 3857?

Y N

9 8 8 6
3 9 6 8
D D D D
V W X Y

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MAP 3882-67

D CONSOLE INPUT/OUTPUT
Y
6 PAPER ONLY
7
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MAP 3882-68

212
(ENTRY POINT PC)

3862 IN THE DATA LAMPS IS:
A 4987 SUBSYSTEM IS INSTALLED.

- SEE THE DATA LAMPS.

DO THE DATA LAMPS EQUAL 3862?

Y N

213
WAIT ONE MINUTE.

DO THE DATA LAMPS EQUAL 382C?

Y N

214
GO TO PAGE 158, STEP 470,
ENTRY POINT EL.

215
GO TO PAGE 27, STEP 083,
ENTRY POINT CC.

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MAP 3882-68

6
9
D
Z

D
Z
6
8

CONSOLE INPUT/OUTPUT

MAP 3882-69

PAPER ONLY

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|
|
216
(ENTRY POINT TP)

THE DATA LAMPS EQUAL 3862.

- SELECT THE CORRECT SPECIFY CODE
FROM THE CHART.

FEATURE CODES FOR THE 4987 PROGRAMMABLE COMMUNICATION				
FEATURE CODE	FROM	TO	FROM	TO
4700	8510	8525	8610	8625
4701	8580	8581	8680	8681
4704	8530	8533	8630	8633
4706	8540	8542	8640	8642
4709	8550		8650	
4710	8560		8660	
4713	8570	8573	8670	8673
4716	8590		8690	
4717	8591		8691	
4718	8592		8692	
4719	8593		8693	
4721	8594		8694	
4722	8595		8695	
4723	8596		8696	
4724	8597		8697	

IS THE ACTION COMPLETE?

Y N

|
| 217

| - COMPLETE THE ACTION AND
| CONTINUE ON THE YES LEG.

7
0
E
A

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MAP 3882-69

218

- PRESS THE STOP KEY.
- ENSURE LEVEL THREE (3).
- RECORD REGISTER CONTENTS:
R1 = ENTRY NUMBER IN TABLE (EN)
R2 = ADDRESS OF ENTRY (DA)
R3 = DEVICE ADDRESS (AA)
 DEVICE TYPE (TT)
R4 = READ ID (IDID)
- PRESS THE START KEY.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) YYYY (I) (I)
 YYYY = SPECIFY CODE

- SEE THE DATA LAMPS:

DO THE DATA LAMPS EQUAL 3858?

Y N

219

- SEE THE DATA LAMPS:

DO THE DATA LAMPS EQUAL 385B?

Y N

220

- SEE THE DATA LAMPS:

DO THE DATA LAMPS EQUAL 3860?

Y N

8 8 7 7
5 5 2 1
E E E E
B C D E

TELEPROCESSING IS INSTALLED:

-
- OBTAIN THE MACHINE HISTORY.
 - SEE COMMUNICATION FEATURE NUMBER AND S/1 SERVICE AID 3.
 - FIND THE FEATURE NUMBER AND SPECIFY CODE IN IT THAT MATCHES THE NUMBER IN THE MACHINE HISTORY.
 - ENTER THIS NUMBER AS THE SPECIFY CODE.

IF NO SPECIFY CODE IS FOUND, SEE THE JUMPERS ON THE CARD, AND USE THE SERVICE AID TO FIND THE SPECIFY CODE. IF NO SPECIFY CODE CAN BE DETERMINED, ENTER '0000' AS THE SPECIFY CODE AND USE THE 'CHANGE' FUNCTION (03) TO ENTER THE DEVICE DATA FOR THE ENTRY.

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MAP 3882-70

E CONSOLE INPUT/OUTPUT
 E
 7 PAPER ONLY
 0
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|
 |
 221
 - SEE THE DATA LAMPS:

DO THE DATA LAMPS EQUAL 3861?
 Y N

|
 | 222
 | GO TO PAGE 68, STEP 212,
 | ENTRY POINT PC.

|
 223
 'CONFIGURATION ERROR - MESSAGE #
 3861'

- PRESS THE STOP KEY.
- ENSURE LEVEL THREE (3).
- RECORD THE REGISTER CONTENTS:

R1 = TABLE ENTRY NUMBER.
 R2 = START ADDRESS OF ENTRY.
 R4 = AATT AA=ADDRESS, TT=TYPE.
 R4 = READ ID.
 R5 = MESSAGE NUMBER.

IF R5 = 10 THE 4987 CONTROLLER
 STARTED WITH ADDRESS
 THAT IS NOT EVEN.
 IF R5 = 11 THE ADDRESS AREA AND
 READ ID IS NOT KNOWN.
 IF R5 = 12 DID NOT FIND TWO
 SEQUENTIAL ENTRIES.

THE 4987 CARD WITH THE ADDRESS
 NOTED IN REGISTER ONE (1) IS
 FAILING.

- EXCHANGE THE CARD.
- VERIFY THE REPAIR.

E CONSOLE INPUT/OUTPUT
D
7 PAPER ONLY
0
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MAP 3882-72

|
|
224
'CONFIGURATION MESSAGE # 3860'

- PRESS THE STOP KEY.
- ENSURE LEVEL THREE (3).

- RECORD THE REGISTER CONTENTS:

R1 = TABLE ENTRY NUMBER.
R2 = START STORAGE ADDRESS ENTRY.
R4 = AATT AA=ADDRESS, TT=TYPE.
R4 = READ ID.
R5 = MESSAGE NUMBER.

- PRESS THE START KEY.
- SEE THE RECORDED CONTENTS OF REGISTER FIVE (5).

DO THE CONTENTS OF REGISTER FIVE (5) EQUAL 0001?

Y N

|
| 225
| (ENTRY POINT PD)

- | - SEE THE CONTENTS OF REGISTER FIVE (5).

| DO THE CONTENTS OF REGISTER FIVE (5) EQUAL 0002?

| Y N

| |
| | 226
| | (ENTRY POINT PE)

- | | - SEE THE CONTENTS OF REGISTER FIVE (5).

| | DO THE CONTENTS OF REGISTER FIVE (5) EQUAL 0003?

| | Y N

8 8 8 7

4 3 2 3

E E E E

F G H J

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MAP 3882-72

E
P
7
3

CONSOLE INPUT/OUTPUT

MAP 3882-74

PAPER ONLY

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|
|
231

(ENTRY POINT PS)

- SEE THE CONTENTS OF REGISTER FIVE (5).

DO THE CONTENTS OF REGISTER FIVE (5) EQUAL 0008?

Y N

|
| 232

| GO TO PAGE 68, STEP 212,
| ENTRY POINT PC.

|
233

CLEAR TO SEND DELAY SWITCH:

- 01 = 030 MS.
- 02 = 080 MS.
- 03 = 230 MS.

THE CLEAR TO SEND DELAY SWITCH MUST BE SET.

- SEE THE 4987 LOGIC SCXXX AND THE CUSTOMER FOR THE CLEAR TO SEND DELAY SWITCH INFORMATION.
- ENSURE THE CORRECT CLEAR TO SEND DELAY SWITCH IS SET ON.

IS THE CORRECT CLEAR TO SEND DELAY SWITCH SET?

Y N

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

7 7
6 5
E E
Q R

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MAP 3882-74

E CONSOLE INPUT/OUTPUT
R
7 PAPER ONLY
4
 PAGE 75 OF 183

MAP 3882-75

|
|
234
- SET THE CORRECT CLEAR TO SEND
 DELAY SWITCH ON.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0X00 (I) (I)
 0X = DELAY RATE SWITCH
 01 = 030 MS
 02 = 080 MS
 03 = 230 MS

DO THE DATA LAMPS EQUAL 3823?

Y N
|
| 235
| GO TO PAGE 68, STEP 212,
| ENTRY POINT PC.

|
236
THE ENTRY MADE BY YOU IS NOT
VALID.

- ENTER ON THE CONSOLE:

(B) 6 (I) (I)
 6 = RESUME

GO TO PAGE 74, STEP 231,
ENTRY POINT PS.

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MAP 3882-75

E E CONSOLE INPUT/OUTPUT
N Q
7 7 PAPER ONLY
3 4
 PAGE 76 OF 183

MAP 3882-76

| |
| |
| 237
- ENTER ON THE CONSOLE:
(B) 1F (I)
(B) 0X00 (I) (I)
0X = DELAY RATE SWITCH
01 = 030 MS
02 = 080 MS
03 = 230 MS

| DO THE DATA LAMPS EQUAL 3823?
| Y N

| |
| | 238
| | GO TO PAGE 68, STEP 212,
| | ENTRY POINT PC.

| 239
| THE ENTRY MADE BY YOU IS NOT
| VALID.

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

| GO TO PAGE 74, STEP 231,
| ENTRY POINT PS.

| 240
| CLOCK OPTION, 00 = INTERNAL, 01 =
| EXTERNAL.
| THE CLOCK OPTION MUST BE SET.

- SEE THE 4987 LOGIC SCXXX AND
THE CUSTOMER FOR THE CLOCK
OPTION INFORMATION.

IS THE CLOCK OPTION KNOWN?

Y N
| |
| |
| |
| |

7 7
7 7
E E
S T

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MAP 3882-76

E E E CONSOLE INPUT/OUTPUT
M S T
7 7 7 PAPER ONLY
3 6 6
PAGE 77 OF 183

MAP 3882-77

| | |
| | | 242
| | | - ENTER ON THE CONSOLE:
| | | -----
| | | (B) 1F (I)
| | | (B) 0X00 (I) (I)
| | | 0X = CLOCK OPTION
| | | 00 = INTERNAL CLOCK
| | | 01 = EXTERNAL CLOCK
| | | GO TO PAGE 74, STEP 231,
| | | ENTRY POINT PS.

| | |
| | | 243
| | | REQUEST TO SEND (RTS) 00 = OFF,
| | | 01 = ON.

- SEE THE 4987 LOGIC SCXXX AND THE CUSTOMER FOR THE RTS SWITCH INFORMATION.
- SET THE RTS SWITCH TO THE CORRECT POSITION.

IS THE RTS SWITCH SET ON?

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

7 7
8 8
E E
U V

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MAP 3882-77

E E E CONSOLE INPUT/OUTPUT
L U V
7 7 7 PAPER ONLY
3 7 7
PAGE 78 OF 183

MAP 3882-78

| | |
| | |
| | 244
| | - ENTER ON THE CONSOLE:
| | -----
| | (B) 1F (I)
| | (B) 0000 (I) (I)
| | 00 = RTS OFF
| |
| | GO TO PAGE 73, STEP 230,
| | ENTRY POINT PO.

| | 245
| | - ENTER ON THE CONSOLE:
| | -----
| | (B) 1F (I)
| | (B) 0100 (I) (I)
| | 01 = RTS ON
| |
| | GO TO PAGE 73, STEP 230,
| | ENTRY POINT PO.

246
BITS PER SECOND SWITCH.
01 = 0600.
02 = 1200.
03 = 2400.
04 = 4800.
05 = 9600.

A BITS PER SECOND (BIT RATE)
SWITCH MUST BE SET.

- SEE THE 4987 LOGIC SCXXX AND THE CUSTOMER FOR THE BITS PER SECOND SWITCH INFORMATION.
- ENSURE THE CORRECT BIT RATE SWITCH IS SET ON.

IS THE CORRECT BIT RATE SWITCH
SET?

Y N
| |
| |
| |
| |

8 7
0 9
E E
W X

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MAP 3882-78

E CONSOLE INPUT/OUTPUT
X
7 PAPER ONLY
8
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MAP 3882-79

|
|
247

- SET THE CORRECT BIT SWITCH.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0X00 (I) (I)
0X = BIT RATE SWITCH
01 = 0600
02 = 1200
03 = 2400
04 = 4800
05 = 9600

DO THE DATA LAMPS EQUAL 3823?

Y N

|
| 248
| GO TO PAGE 73, STEP 229,
| ENTRY POINT PR.

|
249

THE ENTRY MADE BY YOU IS NOT
VALID.

- ENTER ON THE CONSOLE:

(B) 6 (I) (I)
6 = RESUME

GO TO PAGE 73, STEP 228,
ENTRY POINT PB.

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MAP 3882-79

E CONSOLE INPUT/OUTPUT
W
7 PAPER ONLY
8
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MAP 3882-80

|
|
250

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0X00 (I) (I)
0X = BIT RATE SWITCH
01 = 0600
02 = 1200
03 = 2400
04 = 4800
05 = 9600

DO THE DATA LAMPS EQUAL 3823?

Y N

|
| 251
| GO TO PAGE 73, STEP 229,
| ENTRY POINT PR.

|
252
THE ENTRY MADE BY YOU IS NOT
VALID.

- ENTER ON THE CONSOLE:

(B) 6 (I) (I)
6 = RESUME

GO TO PAGE 73, STEP 228,
ENTRY POINT PB.

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MAP 3882-80

E CONSOLE INPUT/OUTPUT
K
7 PAPER ONLY
3
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MAP 3882-81

|
|
253
INTERLOCK SWITCH SETTING, 00 =
OFF, 01 = ON.

- SEE THE 4987 LOGIC SCXXX AND
THE CUSTOMER FOR THE INTERLOCK
SWITCH INFORMATION.
- SET THE INTERLOCK SWITCH TO THE
CORRECT POSITION.

IS THE INTERLOCK SWITCH SET ON?
Y N

|
| 254
- ENTER ON THE CONSOLE:
(B) 1F (I)
(B) 0000 (I) (I)
00 = INTERLOCK OFF
GO TO PAGE 73, STEP 228,
ENTRY POINT PB.

|
255
- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)
01 = INTERLOCK ON

GO TO PAGE 73, STEP 228,
ENTRY POINT PB.

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MAP 3882-81

E CONSOLE INPUT/OUTPUT
H
7 PAPER ONLY
2
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MAP 3882-82

|
|
256
CARRIER DETECT SWITCH SETTING, 00
= OFF, 01 = ON.

- SEE THE 4987 LOGIC SCXXX AND THE CUSTOMER FOR THE CARRIER DETECT SWITCH INFORMATION.
- SET THE CARRIER DETECT SWITCH TO THE CORRECT POSITION.

IS THE CARRIER DETECT SWITCH SET ON?

Y N

|
| 257
- ENTER ON THE CONSOLE:
(B) 1F (I)
(B) 0000 (I) (I)
00 = CARRIER OFF
GO TO PAGE 73, STEP 227,
ENTRY POINT PI.

|
258
- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)
01 = CARRIER ON

GO TO PAGE 73, STEP 227,
ENTRY POINT PI.

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MAP 3882-82

E
G
7
2

CONSOLE INPUT/OUTPUT

MAP 3882-83

PAPER ONLY

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|
|

259

DATA SET READY (DSR) SWITCH, 00 =
OFF, 01 = ON.

- SEE THE 4987 LOGIC SCXXX AND
THE CUSTOMER FOR THE DSR SWITCH
INFORMATION.
- SET THE DSR SWITCH TO THE
CORRECT POSITION.

IS THE DSR SWITCH SET ON?

Y N

|
|

260

- ENTER ON THE CONSOLE:

(B) 1F (I)

(B) 0000 (I) (I)

00 = DSR SWITCH OFF

| GO TO PAGE 72, STEP 226,
| ENTRY POINT PE.
|

261

- ENTER ON THE CONSOLE:

(B) 1F (I)

(B) 0100 (I) (I)

01 = DSR SWITCH ON

GO TO PAGE 72, STEP 226,
ENTRY POINT PE.

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MAP 3882-83

E CONSOLE INPUT/OUTPUT
F
7 PAPER ONLY
2
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MAP 3882-84

|
|
262
COMM SYS - DATA TERMINAL READY
(DTR) SWITCH? 00=OFF,01=ON

- SEE THE 4987 LOGIC SCXXX AND THE CUSTOMER FOR THE DTR SWITCH INFORMATION.
- SET THE DTR SWITCH TO THE CORRECT POSITION.

IS THE DTR SWITCH SET ON?

Y N

|
| 263
- ENTER ON THE CONSOLE:
(B) 1F (I)
(B) 0000 (I) (I)
00 = DTR SWITCH OFF

| GO TO PAGE 72, STEP 225,
| ENTRY POINT PD.

|
264
- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)
01 = DTR SWITCH ON

GO TO PAGE 72, STEP 225,
ENTRY POINT PD.

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MAP 3882-84

E E CONSOLE INPUT/OUTPUT
B C
7 7 PAPER ONLY
0 0
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MAP 3882-85

| |
| |
| 265
| ERROR - MULTI-LINE CONTROLLER
| AREA
|
| THERE IS AN ERROR IN THE
| MULTI-LINE CONTROLLER ADDRESS
| AREA.
| THE 4987 HAS AN ADDRESS AREA.
| NO OTHER DEVICE CAN USE THESE
| RESERVED ADDRESSES. THE
| CONFIGURATION PROGRAM FOUND A
| DEVICE WITH AN ADDRESS IN THIS
| AREA. THE CONFIGURATION TABLE
| ENTRY WITH THE ADDRESS AREA
| ERROR MUST BE CHANGED.
| SEE THE ADDRESS RECORDED FROM
| R3.
| FIND THE DEVICE WITH THIS
| ADDRESS AREA AS ITS ADDRESS.
| THE ADDRESS OF THE DEVICE IN
| THIS AREA MUST BE CHANGED.
| - VERIFY THE REPAIR.

266
YOU HAVE ENTERED A WRONG SPECIFY
CODE FOR A 4987 CARD. THE
SPECIFY CODE IS NOT KNOWN FOR A
4987 CARD.

- ENTER ON THE CONSOLE:

(B) 6 (I) (I)
 6 RESUME

GO TO PAGE 69, STEP 216,
ENTRY POINT TP.

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MAP 3882-85

D CONSOLE INPUT/OUTPUT
X
6 PAPER ONLY
7
PAGE 86 OF 183

267
(ENTRY POINT TD)

THE DATA LAMPS EQUAL 3857 (SDLC).

- PRESS THE STOP KEY.
- ENSURE LEVEL THREE (3).
- RECORD REGISTER CONTENTS:
R1 = ENTRY NUMBER IN TABLE (EN)
R2 = ADDRESS OF ENTRY (DA)
R3 = DEVICE ADDRESS (AA)
 DEVICE TYPE (TT)
R4 = READ ID (IDID)
- PRESS THE START KEY.

- FIND SPECIFY CODE IN CHART. X = JUMPER INSTALLED, Y = LINE DESCRIPTION
- | | |
|---------------------------|------------------------------|
| NO RI = NO RING INDICATE | RIP = RING INDICATE PROVIDED |
| ICLK = INTERNAL CLOCK | IC = INTERNAL CLOCK |
| DTR = DATA TERMINAL READY | LL = LEASED LINE |
| RTS = REQUEST TO SEND | 2W = TWO (2) WIRE |
| SN = SWITCHED NETWORK | 4W = FOUR (4) WIRE |

SDLC FEATURE CODE 2090									
SPECIFY CODE	JUMPERS				LINE				
	NO RI	ICLK	DTR	RTS	SN	RIP	IC	LL	
8130	X								
8131					Y	Y			
8132	X	X			Y				
8133		X			Y	Y	Y		
8134	X		X						2W
8135	X		X	X					4W
8136	X	X	X				Y		2W
8137	X	X	X	X			Y		4W

IS THE ACTION COMPLETE?

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

8 8
7 7
E E
Y Z

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F F F CONSOLE INPUT/OUTPUT
A B C
8 8 8 PAPER ONLY
7 7 7
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MAP 3882-88

| | |
| | |
| | 273
| | - SEE THE ADDRESS RECORDED
| | FROM R3.
| | - EXCHANGE THE CARD AT THE
| | ADDRESS FROM R3.
| | - VERIFY THE REPAIR.

| |
| 274
| THE SPECIFY CODE ENTERED IS
| CORRECT FOR AN SDLC CARD. THE
| SPECIFY CODE FOR THIS CARD
| ENTERED IS NOT CORRECT.

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

| GO TO PAGE 86, STEP 267,
| ENTRY POINT TD.

| 275
| YOU HAVE ENTERED A WRONG SPECIFY
| CODE FOR AN SDLC CARD. THE
| SPECIFY CODE IS NOT KNOWN FOR AN
| SDLC CARD.

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

| GO TO PAGE 86, STEP 267,
| ENTRY POINT TD.

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MAP 3882-88

276
(ENTRY POINT MB)

THE DATA LAMPS EQUAL 3856
(BSCAML).

- FIND THE SPECIFY CODE IN THE CHART.

BSCA EIGHT (8) LINE CONTROLLER FEATURE CODE 2093					
SPECIFY CODE	CONTROLLER NUMBER	SPECIFY CODE	CONTROLLER NUMBER	SPECIFY CODE	CONTROLLER NUMBER
8151	ONE (1)	8153	THREE (3)	8155	FIVE (5)
8152	TWO (2)	8154	FOUR (R)	8156	SIX (6)

BSCA 4 LINE ADAPTER FEATURE CODE 2094											
SPECIFY CODE	JUMPERS						LINE				
	MP	MPTA7	DTR	RTS	ICLK	NO RI	MP	HD	RIP	SN	LL
840Z	X		X			X	Y	Y			
841Z	X		X		X	X	Y	Y			
842Z		X				X		Y		Y	
843Z		X						Y	Y	Y	
844Z		X			X	X		Y		Y	
845Z		X			X			Y	Y	Y	
846Z			X			X		Y			2W
847Z			X	X		X					4W
848Z			X		X	X		Y			2W
849Z			X	X	X	X					4W

Z = THE CONTROLLER NUMBER THIS LINE IS ATTACHED TO (0 - 6).

IS THE ACTION COMPLETE?

Y N

277

- COMPLETE THE ACTION AND
CONTINUE ON THE YES LEG.

- |
|
278
- PRESS THE STOP KEY.
- ENSURE LEVEL THREE (3).
- RECORD REGISTER CONTENTS:
R1 = ENTRY NUMBER IN TABLE (EN)
R2 = ADDRESS OF ENTRY (DA)
R3 = DEVICE ADDRESS (AA)
DEVICE TYPE (TT)
R4 = READ ID (IDID)
- PRESS THE START KEY.
- SEE THE NOTE TO THE RIGHT

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) YYYY (I) (I)
YYYY = SPECIFY CODE

- SEE THE DATA LAMPS:

DO THE DATA LAMPS EQUAL 385A?

Y N

|
| 279

| - SEE THE DATA LAMPS:

| DO THE DATA LAMPS EQUAL 3858?

| Y N

| |
| | 280

| | - SEE THE DATA LAMPS:

| | DO THE DATA LAMPS EQUAL 385B?

| | Y N

| | |
| | | 281

| | | - SEE THE DATA LAMPS:

| | | DO THE DATA LAMPS EQUAL
| | | 385C?

| | | Y N

9 9 9 9 9
2 2 1 1 1
F F F F F
E F G H J

TELEPROCESSING IS INSTALLED

IF NO SPECIFY CODE IS FOUND, USE
THE JUMPERS ON THE CARD AND S/1
SERVICE AID 3 TO FIND THE SPECIFY
CODE.

IF NO SPECIFY CODE CAN BE
DETERMINED, ENTER '0000' AND AT
TERMINATION OF THIS PROGRAM, LOAD
IT AND USE THE CHANGE FUNCTION
(03) TO ENTER THE DEVICE DATA FOR
THE ENTRY.

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MAP 3882-90

F F F CONSOLE INPUT/OUTPUT
G H J
9 9 9 PAPER ONLY
0 0 0

MAP 3882-91

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| | |
| | |
| | 282
| | GO TO PAGE 67, STEP 210,
| | ENTRY POINT BM.
| |
| 283
| - SEE THE ADDRESS RECORDED FROM
| R3.
| - EXCHANGE THE CARD AT THE
| ADDRESS FROM R3.
| - VERIFY THE REPAIR.
|

284
THERE IS AN ERROR IN THE
MULTI-LINE CONTROLLER ADDRESS
AREA.
THE BSCA ML HAS AN ADDRESS AREA.
NO OTHER DEVICE CAN USE THESE
RESERVED ADDRESSES. THE
CONFIGURATION PROGRAM FOUND A
DEVICE WITH AN ADDRESS IN THIS
AREA. THE CONFIGURATION TABLE
ENTRY WITH THE ADDRESS AREA ERROR
MUST BE CHANGED.
SEE THE ADDRESS RECORDED FROM R3.
FIND THE DEVICE WITH THIS ADDRESS
AREA AS ITS ADDRESS.
THE ADDRESS OF THE DEVICE IN THIS
AREA MUST BE CHANGED.
- VERIFY THE REPAIR.

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MAP 3882-91

F F CONSOLE INPUT/OUTPUT
E F
9 9 PAPER ONLY
0 0
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MAP 3882-92

| |
| |
| 285
| YOU HAVE ENTERED A WRONG
| SPECIFY CODE FOR A BSCA CARD.
| THE SPECIFY CODE IS NOT KNOWN
| FOR A BSCA CARD.

- ENTER ON THE CONSOLE:

| (B) 6 (I) (I)
| 6 RESUME

| GO TO PAGE 89, STEP 276,
| ENTRY POINT MB.

| 286
| REMOTE IPL JUMPER? 00=NO, 01=YES
| SEE IF THE REMOTE IPL JUMPER IS
| INSTALLED ON THE CARD.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0X00 (I) (I)
00 = NO JUMPER
01 = JUMPER

GO TO PAGE 67, STEP 210,
ENTRY POINT BM.

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MAP 3882-92

D CONSOLE INPUT/OUTPUT
V
6 PAPER ONLY
7
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MAP 3882-93

287
(ENTRY POINT TB)

THE DATA LAMPS EQUAL 3855
(BSCASL).

- FIND SPECIFY CODE IN CHART. X = JUMPER INSTALLED, Y = LINE DESCRIPTION
MP = MULTIPOINT TRIBUTARY MP = MULTIPOINT
MPTA7 = MP TERMINAL ADDRESS BIT 7 HD = HALF DUPLEX
DTR = DATA TERMINAL READY RIP = RING INDICATE PROVIDED
RTS = REQUEST TO SEND SN = SWITCHED NETWORK
ICLK = INTERNAL CLOCK LL = LEASED LINE
NO RI = NO RING INDICATE 2W = TWO (2) WIRE
FD = FULL DUPLEX 4W = FOUR (4) WIRE

BSCA SL MEDIUM SPEED FEATURE CODE 2074											
SPECIFY	JUMPERS						LINE				
CODE	MP	MPTA7	DTR	RTS	ICLK	NO RI	MP	HD	RIP	SN	LL
8120	X		X			X	Y	Y			
8121	X		X		X	X	Y	Y			
8122		X				X		Y		Y	
8123		X						Y	Y	Y	
8124		X			X	X		Y		Y	
8125		X			X			Y	Y	Y	
8126			X			X		Y			2W
8127			X	X		X					4W
8128			X		X	X		Y			2W
8129			X	X	X	X					4W

V23/DDN = MODEM

WE303 = MODEM

BSCA SINGLE LINE HIGH SPEED FEATURE CODE 2075									
SPECIFY	JUMPERS					LINE			
CODE	MP	DTR	RTS	V35/DDN	WE303	HD	FD	LL	
8161		X		XY		Y		Y	
8162		X	X	XY			Y	Y	
8163	X	X		XY					
8164		X			XY	Y		Y	
8165		X	X		XY		Y	Y	
8166	X	X			XY				

(STEP 287 CONTINUES)

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MAP 3882-93

PAPER ONLY

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(STEP 287 CONTINUED)

IS THE ACTION COMPLETE?

Y N

|

| 288

| - COMPLETE THE ACTION AND
| CONTINUE ON THE YES LEG.

|

289

- PRESS THE STOP KEY.
- ENSURE LEVEL THREE (3).
- RECORD REGISTER CONTENTS:
R1 = ENTRY NUMBER IN TABLE (EN)
R2 = ADDRESS OF ENTRY (DA)
R3 = DEVICE ADDRESS (AA)
 DEVICE TYPE (TT)
R4 = READ ID (IDID)
- PRESS THE START KEY.

- ENTER THE SPECIFY CODE.

- ENTER ON THE CONSOLE:

 (B) 1F (I)
 (B) YYYY (I) (I)
 YYYY = SPECIFY CODE

- SEE THE DATA LAMPS:

DO THE DATA LAMPS EQUAL 385A?

Y N

|

| 290

| - SEE THE DATA LAMPS:

|

| DO THE DATA LAMPS EQUAL 3859?

| Y N

9 9 9
 6 5 5
 F F F
 K L M

TELEPROCESSING IS INSTALLED

IF NO SPECIFY CODE IS FOUND, USE THE JUMPERS ON THE CARD AND S/1 SERVICE AID 3 TO FIND THE SPECIFY CODE.

IF NO SPECIFY CODE CAN BE DETERMINED, ENTER '0000' AND AT TERMINATION OF THIS PROGRAM, LOAD IT AND USE THE CHANGE FUNCTION (03) TO ENTER THE DEVICE DATA FOR THE ENTRY.

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F F CONSOLE INPUT/OUTPUT
L M
9 9 PAPER ONLY
4 4
PAGE 95 OF 183

MAP 3882-95

| |
| |
| 291
| - SEE THE DATA LAMPS:
|
| DO THE DATA LAMPS EQUAL 385C?
| Y N
| |
| | 292
| | GO TO PAGE 67, STEP 209,
| | ENTRY POINT BS.
| |
| 293
| - SEE THE ADDRESS RECORDED FROM
| R3.
| - EXCHANGE THE CARD AT THE
| ADDRESS FROM R3.
| - VERIFY THE REPAIR.
|

294
YOU HAVE ENTERED A WRONG SPECIFY
CODE FOR A BSCA ML CARD. THE
SPECIFY CODE IS NOT KNOWN FOR A
BSCA ML CARD.

- ENTER ON THE CONSOLE:

(B) 6 (I) (I)
 6 RESUME

GO TO PAGE 93, STEP 287,
ENTRY POINT TB.

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MAP 3882-95

F CONSOLE INPUT/OUTPUT
K
9 PAPER ONLY
4

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MAP 3882-96

|
|
295
REMOTE IPL JUMPER? 00=NO, 01=YES
SEE IF THE REMOTE IPL JUMPER IS
INSTALLED ON THE CARD.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0X00 (I) (I)
00 = NO JUMPER
01 = JUMPER

GO TO PAGE 67, STEP 209,
ENTRY POINT BS.

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MAP 3882-96

F
Q
9
7

CONSOLE INPUT/OUTPUT

MAP 3882-98

PAPER ONLY

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298

- SEE THE NOTE TO THE RIGHT
- SEE THE RECORDED CONTENTS OF REGISTER 5.

REGISTER 5 CONTENTS = 03 IS:
S0 JUMPER? 00=OFF, 01=ON

DO THE CONTENTS OF REGISTER FIVE (5) = 03?

Y N

299

- SEE THE NOTE TO THE RIGHT
- SEE THE RECORDED CONTENTS OF REGISTER 5.

REGISTER 5 CONTENTS = 04 IS:
S1 JUMPER? 00=OFF, 01=ON

DO THE CONTENTS OF REGISTER FIVE (5) = 04?

Y N

300

- SEE THE NOTE TO THE RIGHT
- SEE THE RECORDED CONTENTS OF REGISTER 5.

REGISTER 5 CONTENTS = 05 IS:
S2 JUMPER? 00=OFF, 01=ON

DO THE CONTENTS OF REGISTER FIVE (5) = 05?

Y N

301

GO TO PAGE 66,
STEP 208,
ENTRY POINT MF.

302

- SEE IF THE S2 JUMPER IS INSTALLED.

IS THE JUMPER INSTALLED?

Y N

1
0 9 9 9
0 9 9 9
F F F F
R S T U

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MAP 3882-98

F F F
S T U
9 9 9
8 8 8

CONSOLE INPUT/OUTPUT

MAP 3882-99

PAPER ONLY

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| | |
| | |
| | 303
| | - ENTER ON THE CONSOLE:
| | -----
| | (B) 1F (I)
| | (B) 0000 (I) (I)
| | 00 = NO JUMPER
| |
| | GO TO PAGE 66, STEP 208,
| | ENTRY POINT MF.

| |
| | 304
| | - ENTER ON THE CONSOLE:
| | -----
| | (B) 1F (I)
| | (B) 0100 (I) (I)
| | 01 = JUMPER
| |
| | GO TO PAGE 66, STEP 208,
| | ENTRY POINT MF.

| |
| | 305
| | - SEE IF THE S1 JUMPER IS
| | INSTALLED.

IS THE JUMPER INSTALLED?
Y N

| |
| | 306
| | - ENTER ON THE CONSOLE:
| | -----
| | (B) 1F (I)
| | (B) 0000 (I) (I)
| | 00 = NO JUMPER
| |
| | GO TO PAGE 97, STEP 296,
| | ENTRY POINT FM.

1
0
0
F
V

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MAP 3882-99

F F CONSOLE INPUT/OUTPUT
R V
9 9 PAPER ONLY
8 9

MAP 3882-100

PAGE 100 OF 183

| |
| |
| 307
- ENTER ON THE CONSOLE:
(B) 1F (I)
(B) 0100 (I) (I)
01 = JUMPER
GO TO PAGE 97, STEP 296,
ENTRY POINT FM.

|
308
- SEE IF THE SO JUMPER IS
 INSTALLED.

IS THE JUMPER INSTALLED?

Y N

|
| 309
- ENTER ON THE CONSOLE:
(B) 1F (I)
(B) 0000 (I) (I)
00 = NO JUMPER
GO TO PAGE 97, STEP 296,
ENTRY POINT FM.

|
310
- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)
 01 = JUMPER

GO TO PAGE 97, STEP 296,
ENTRY POINT FM.

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MAP 3882-100

F F CONSOLE INPUT/OUTPUT
N P
9 9 PAPER ONLY
7 7
 PAGE 101 OF 183

MAP 3882-101

| |
| |
| 311
| - SEE IF THE JUMPER IS
| INSTALLED.

| IS THE JUMPER INSTALLED?
| Y N

| | 312
| | - ENTER ON THE CONSOLE:
| | -----
| | (B) 1F (I)
| | (B) 0000 (I) (I)
| | 00 = NO JUMPER

| GO TO PAGE 97, STEP 296,
| ENTRY POINT FM.

| 313
- ENTER ON THE CONSOLE:
(B) 1F (I)
(B) 0100 (I) (I)
01 = JUMPER

| GO TO PAGE 97, STEP 296,
| ENTRY POINT FM.

314
- SEE IF THE JUMPER IS INSTALLED.

IS THE JUMPER INSTALLED?
Y N

| 315
- ENTER ON THE CONSOLE:
(B) 1F (I)
(B) 0000 (I) (I)
00 = NO JUMPER

| GO TO PAGE 97, STEP 296,
| ENTRY POINT FM.

1
0
2
F
W

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ECA23101 PECA10990

MAP 3882-101

D F CONSOLE INPUT/OUTPUT
S W
6 1 PAPER ONLY
6 0
1 PAGE 102 OF 183

MAP 3882-102

|
|
| 316
- ENTER ON THE CONSOLE:
(B) 1F (I)
(B) 0100 (I) (I)
01 = JUMPER
GO TO PAGE 97, STEP 296,
ENTRY POINT FM.

317
(ENTRY POINT TI)

- SEE THE NOTE TO THE RIGHT
- PRESS THE STOP KEY.
- ENSURE LEVEL THREE (3).
- DISPLAY REGISTER FIVE (5).
- RECORD THE CONTENTS OF REGISTER
 5.
- PRESS THE START KEY.
- SEE THE RECORDED CONTENTS OF
 REGISTER 5.

386A IN THE DATA LAMPS IS:
A MULTI-LINE COMMUNICATION IS
INSTALLED.

EN DA DT RID
EE AA TT IDID
R1 = EN TABLE ENTRY NUMBER.
R2 = SA STARTING STORAGE
 ADDRESS OF ENTRY.
R3 = AATT AA IS DEVICE ADDRESS
 TT IS DEVICE TYPE
R4 = IDID READ ID TO ADDRESS.

R5 CONTENTS IS THE FOLLOWING:

01 = * LINE INSTALLED AT ADDRESS?
02 = SPECIFY CODE
03 = * CLOCKS DURING WRAP?
 * ANSWER 00=NO, 01=YES.

DO THE CONTENTS OF REGISTER FIVE
(5) = 01?

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

1 1
0 0
6 3
F F
X Y

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ECA23101 PECA10990

MAP 3882-102

F CONSOLE INPUT/OUTPUT
Y
1 PAPER ONLY
0
2 PAGE 103 OF 183

MAP 3882-103

|
318
- SEE THE NOTE TO THE RIGHT
- SEE THE RECORDED CONTENTS OF REGISTER 5.

REGISTER 5 CONTENTS = 02 IS:
SPECIFY CODE

DO THE CONTENTS OF REGISTER FIVE (5) = 02?
Y N

| 319
| - SEE THE NOTE TO THE RIGHT
| - SEE THE RECORDED CONTENTS OF REGISTER 5.

REGISTER 5 CONTENTS = 03 IS:
CLOCKS DURING WRAP? 00=NO, 01=YES

| DO THE CONTENTS OF REGISTER FIVE (5) = 03?
| Y N

| 320
| GO TO PAGE 65, STEP 205,
| ENTRY POINT AS.

| 321
| CLOCKS DURING WRAP.

| - SEE IF YOU WANT THE CLOCK WRAPPED.
| - SEE THE 4987 LOGIC SC455 AND THE CUSTOMER FOR THE CLOCK WRAP INFORMATION.

| DO YOU WANT THE CLOCK TO BE WRAPPED?

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

1 1 1
0 0 0
5 4 4
F G G
Z A B

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ECA23101 PECA10990

MAP 3882-103

G G CONSOLE INPUT/OUTPUT
A B
1 1 PAPER ONLY
0 0
3 3 PAGE 104 OF 183

MAP 3882-104

| |
| 322
- ENTER ON THE CONSOLE:
(B) 1F (I)
(B) 0000 (I) (I)
00 = NO WRAP
GO TO PAGE 102, STEP 317,
ENTRY POINT TI.

|
323
- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)
 01 = WRAP

GO TO PAGE 102, STEP 317,
ENTRY POINT TI.

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MAP 3882-104

F
Z
1
0
3

CONSOLE INPUT/OUTPUT

MAP 3882-105

PAPER ONLY

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|
324

- SEE THE NOTE TO THE RIGHT
- PRESS THE STOP KEY.
- ENSURE LEVEL THREE (3).
- RECORD REGISTER CONTENTS:
- PRESS THE START KEY.
- ENTER ON THE CONSOLE:

- R1 = ENTRY NUMBER IN TABLE (EN)
- R2 = ADDRESS OF ENTRY (DA)
- R3 = DEVICE ADDRESS (AA)
 DEVICE TYPE (TT)
- R4 = READ ID (IDID)

 (B) 1F (I)
 (B) YYYY (I) (I)
 YYYY = SPECIFY CODE

X = JUMPER INSTALLED
 DCD = DATA CARRIER DETECT
 DTR = DATA TERMINAL READY
 RTS = REQUEST TO SEND
 INT = INTERFACE
 TTY = TELETYPE
 EIA = MODEM
 S = SPEED
 HS = HIGH SPEED
 LS = LOW SPEED

Y = LINE DESCRIPTION
 DC = DIRECT CONNECT
 CL = CURRENT LOOP
 SN = SWITCHED NETWORK
 LL = LEASED LINE
 4W = FOUR (4) WIRE
 2W = TWO WIRE
 S = SPEED
 HS = HIGH SPEED
 LS = LOW SPEED

FPMLC 4 LINE ADAPTER FEATURE CODE 2096											
SPECIFY	JUMPERS						LINE DESCRIPTION				
CODE	S	INT	DTR	RTS	DCD		CL	SN	DC	S	LL
80Z0	HS	EIA	X	X	X					HS	4W
80Z1	HS	EIA	X		X				Y	HS	2W
80Z2	LS	EIA	X	X	X					LS	4W
80Z3	LS	EIA	X		X				Y	LS	2W
80Z4	HS	EIA			X			Y		HS	
80Z5	LS	EIA			X			Y		LS	
80Z6	HS	TTY	X	X	X		Y			HS	
80Z7	LS	TTY	X	X	X		Y			LS	

Z = ATTACHMENTS INSTALLED, 1 FIRST ATTACHMENT, 2 SECOND ATTACHMENT

- SEE THE DATA LAMPS:

(STEP 324 CONTINUES)

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MAP 3882-105

F CONSOLE INPUT/OUTPUT
X
1 PAPER ONLY
0
2 PAGE 106 OF 183

| (STEP 324 CONTINUED)
| DO THE DATA LAMPS EQUAL 3858?

| Y N

| | 325
| | GO TO PAGE 102, STEP 317,
| | ENTRY POINT TI.

| 326
| YOU HAVE ENTERED A WRONG
| SPECIFY CODE FOR THE FPMLC
| CARD. THE SPECIFY CODE IS NOT
| KNOWN FOR THIS CARD.

| - ENTER ON THE CONSOLE:

| -----
| (B) 6 (I) (I)
| 6 RESUME

| GO TO PAGE 102, STEP 317,
| ENTRY POINT TI.

| 327
| THE FPMLC COMMUNICATION HAS A
| CONTROLLER CARD AND ONE (1) OR
| TWO (2) FOUR (4) LINE ATTACHMENT
| CARDS. NOT ALL LINES MAY BE
| INSTALLED AND USED BY THE
| CUSTOMER. SEE IF THIS ADDRESS
| HAS A LINE INSTALLED. SEE LOGIC
| SC455 AND THE CUSTOMER FOR THE
| LINE INSTALLED INFORMATION.

IS A LINE INSTALLED?

Y N

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

1 1
0 0
7 7
G G
C D

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G G CONSOLE INPUT/OUTPUT
C D
1 1 PAPER ONLY
0 0
6 6 PAGE 107 OF 183

MAP 3882-107

| |
| 328
- ENTER ON THE CONSOLE:
(B) 1F (I)
(B) 0000 (I) (I)
00 = NO LINE
GO TO PAGE 66, STEP 207,
ENTRY POINT AI.

|
329
- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)
 01 = LINE

GO TO PAGE 102, STEP 317,
ENTRY POINT TI.

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MAP 3882-107

D
R
6
6

CONSOLE INPUT/OUTPUT

MAP 3882-108

PAPER ONLY

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330

(ENTRY POINT AE)

THE DATA LAMPS EQUAL 3854

(ACCA ML).

- FIND THE SPECIFY CODE IN THE CHART.

ACCA MULTILINE CONTROLLER FEATURE CODE 2091					
SPECIFY	CONTROLLER	SPECIFY	CONTROLLER		
CODE	NUMBER IS:	CODE	NUMBER IS:		
8141	ONE (1)	8144	FOUR (4)		
8142	TWO (2)	8145	FIVE (5)		
8143	THREE (3)	8146	SIX (6)		

ACCA FOUR LINE ADAPTER FEATURE CODE 2092											
SPECIFY	JUMPERS					LINE					
	CODE	LO	MED	DTR	RTS	DCD	HD	FD	DC	LL	SN
820Z	X			X			Y		Y		
821Z	X			X	X			Y	Y		
822Z	X						Y				Y
823Z	X				X			Y			Y
824Z	X					X	Y				Y
825Z	X				X	X		Y			Y
826Z	X			X			Y			Y	
827Z	X			X	X			Y		Y	
828Z	X			X		X	Y			Y	
829Z	X			X	X	X		Y		Y	
830Z		X		X			Y		Y		
831Z		X		X	X			Y			Y
832Z		X					Y				Y
833Z		X			X			Y			Y
834Z		X				X	Y				Y
835Z		X			X	X		Y			Y
836Z		X		X			Y			Y	
837Z		X		X	X			Y		Y	
838Z		X		X		X	Y			Y	
839Z		X		X	X	X		Y		Y	

Z = THE CONTROLLER NUMBER THIS LINE IS ATTACHED TO (0 - 6).

(STEP 330 CONTINUES)

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MAP 3882-108

PAPER ONLY

PAGE 109 OF 183

(STEP 330 CONTINUED)
IS THE ACTION COMPLETE?

Y N

|

| 331

| - COMPLETE THE ACTION AND
| CONTINUE ON THE YES LEG.

|

332

- PRESS THE STOP KEY.
- ENSURE LEVEL THREE (3).
- RECORD REGISTER CONTENTS:
R1 = ENTRY NUMBER IN TABLE (EN)
R2 = ADDRESS OF ENTRY (DA)
R3 = DEVICE ADDRESS (AA)
 DEVICE TYPE (TT)
R4 = READ ID (IDID)
- PRESS THE START KEY.
- SEE THE NOTE TO THE RIGHT

- ENTER ON THE CONSOLE:

 (B) 1F (I)
 (B) YYYY (I) (I)
 YYYY = SPECIFY CODE

- SEE THE DATA LAMPS:

DO THE DATA LAMPS EQUAL 3858?

Y N

|

| 333

| - SEE THE DATA LAMPS:

|

| DO THE DATA LAMPS EQUAL 385B?

| Y N

| |

| | 334

| | - SEE THE DATA LAMPS:

| |

| | DO THE DATA LAMPS EQUAL 385C?

| | Y N

| | | |

| | | |

1 1 1 1
 1 1 1 1
 1 0 0 0
 G G G G
 E F G H

TELEPROCESSING IS INSTALLED

IF NO SPECIFY CODE IS FOUND, USE
THE JUMPERS ON THE CARD AND S/1
SERVICE AID 3 TO FIND THE SPECIFY
CODE.

IF NO SPECIFY CODE CAN BE
DETERMINED, ENTER '0000' AND AT
TERMINATION OF THIS PROGRAM, LOAD
IT AND USE THE CHANGE FUNCTION
(03) TO ENTER THE DEVICE DATA FOR
THE ENTRY.

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G G G CONSOLE INPUT/OUTPUT
F G H
1 1 1 PAPER ONLY
0 0 0
9 9 9 PAGE 110 OF 183

MAP 3882-110

| | |
| | 335
| | GO TO PAGE 66, STEP 206,
| | ENTRY POINT AM.
| |
| 336
| NO INTERRUPT FROM THE CARD.
| SEE THE ADDRESS RECORDED FROM
| R3.
|
| - EXCHANGE THE CARD AT THE
| ADDRESS FROM R3.
| - VERIFY THE REPAIR.
|

337
THERE IS AN ERROR IN MULTI-LINE
CONTROLLER ADDRESS AREA.
THE ACCA ML HAS AN ADDRESS AREA.
NO OTHER DEVICE CAN USE THESE
RESERVED ADDRESSES. THE
CONFIGURATION PROGRAM FOUND A
DEVICE WITH AN ADDRESS IN THIS
AREA. THE CONFIGURATION TABLE
ENTRY WITH THE ADDRESS AREA ERROR
MUST BE CHANGED.

- SEE THE ADDRESS RECORDED FROM
R3.
- FIND THE DEVICE WITH THIS
ADDRESS AREA AS ITS ADDRESS.

THE ADDRESS OF THE DEVICE IN THIS
AREA MUST BE CHANGED.
- VERIFY THE REPAIR.

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MAP 3882-110

G CONSOLE INPUT/OUTPUT
E
1 PAPER ONLY
0
9 PAGE 111 OF 183

MAP 3882-111

|
338
YOU HAVE ENTERED A WRONG SPECIFY
CODE FOR AN ACCA CARD. THE
SPECIFY CODE IS NOT KNOWN FOR AN
ACCA CARD.

- ENTER ON THE CONSOLE:

(B) 6 (I) (I)
 6 RESUME

GO TO PAGE 108, STEP 330,
ENTRY POINT AE.

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ECA23101 PECA10990
MAP 3882-111

339
(ENTRY POINT TA)

THE DATA LAMPS EQUAL 3853
(ACCASL).

- FIND SPECIFY CODE IN CHART. X = JUMPER INSTALLED, Y = LINE DESCRIPTION
DTR = DATA TERMINAL READY HD = HALF DUPLEX
RTS = REQUEST TO SEND FD = FULL DUPLEX
DCD = DATA CARRIER DETECT DC = DIRECT CONNECT
SN = SWITCHED NETWORK LL = LEASED LINE

ACCA SINGLE LINE FEATURE CODE 1610											
SPECIFY CODE	JUMPERS					LINE					
	LO	MED	DTR	RTS	DCD	HD	FD	DC	LL	SN	
8100	X		X			Y		Y			
8101	X		X	X			Y	Y			
8102	X					Y				Y	
8103	X			X			Y			Y	
8104	X				X	Y				Y	
8105	X			X	X		Y			Y	
8106	X		X			Y			Y		
8107	X		X	X			Y		Y		
8108	X		X		X	Y			Y		
8109	X		X	X	X		Y		Y		
8110		X	X			Y		Y			
8111		X	X	X			Y				
8112		X				Y				Y	
8113		X		X			Y			Y	
8114		X			X	Y				Y	
8115		X		X	X		Y			Y	
8116		X	X			Y			Y		
8117		X	X	X			Y		Y		
8118		X	X		X	Y			Y		
8119		X	X	X	X			Y	Y		

IS THE ACTION COMPLETE?

Y N
| |
| |
| |

1 1
1 1
3 3
G G
J K

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G G CONSOLE INPUT/OUTPUT
J K
1 1 PAPER ONLY
1 1
2 2 PAGE 113 OF 183

MAP 3882-113

| |
| 340
| - COMPLETE THE ACTION AND
| CONTINUE ON THE YES LEG.
|

341
- PRESS THE STOP KEY.
- ENSURE LEVEL THREE (3).
- RECORD REGISTER CONTENTS:
R1 = ENTRY NUMBER IN TABLE (EN)
R2 = ADDRESS OF ENTRY (DA)
R3 = DEVICE ADDRESS (AA)
 DEVICE TYPE (TT)
R4 = READ ID (IDID)
- PRESS THE START KEY.

TELEPROCESSING IS INSTALLED

IF NO SPECIFY CODE IS FOUND, USE
THE JUMPERS ON THE CARD AND S/I
SERVICE AID 3 TO FIND THE SPECIFY
CODE.

IF NO SPECIFY CODE CAN BE
DETERMINED, ENTER '0000' AND AT
TERMINATION OF THIS PROGRAM, LOAD
IT AND USE THE CHANGE FUNCTION
(03) TO ENTER THE DEVICE DATA FOR
THE ENTRY.

- ENTER THE SPECIFY CODE.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) YYYY (I) (I)
 YYYY = SPECIFY CODE

- SEE THE DATA LAMPS:

DO THE DATA LAMPS EQUAL 3858?

Y N

| |
| 342
| - SEE THE DATA LAMPS:

| DO THE DATA LAMPS EQUAL 385C?

| Y N

| |
| 343
| GO TO PAGE 65, STEP 205,
| ENTRY POINT AS.
| |
| |
| |
| |
| |
| |

1 1
1 1
4 4
G G
L M

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MAP 3882-113

G G CONSOLE INPUT/OUTPUT
L M
1 1 PAPER ONLY
1 1
3 3 PAGE 114 OF 183

MAP 3882-114

| |
| 344
| - SEE THE ADDRESS RECORDED FROM
| R3.
| - EXCHANGE THE CARD AT THE
| ADDRESS FROM R3.
| - VERIFY THE REPAIR.
|

345
YOU HAVE ENTERED A WRONG SPECIFY
CODE FOR AN ACCA CARD. THE
SPECIFY CODE IS NOT KNOWN FOR AN
ACCA CARD.

- ENTER ON THE CONSOLE:

(B) 6 (I) (I)
 6 RESUME

GO TO PAGE 112, STEP 339,
ENTRY POINT TA.

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ECA23101 PECA10990

MAP 3882-114

D G CONSOLE INPUT/OUTPUT
M N
6 1 PAPER ONLY
5 1
5 PAGE 116 OF 183

|
| 348
| THE ENTRY IS NOT VALID.
| THE ENTRY MUST BE CORRECT.

- ENTER ON THE CONSOLE:

(B) 6 (I) (I)
 6 = RESUME

| GO TO PAGE 115, STEP 346,
| ENTRY POINT SE.

349
(ENTRY POINT TV)

THE DATA LAMPS EQUAL 386B.
A TAPE DRIVE IS INSTALLED AT THE
ADDRESS IN REGISTER THREE (3).

- PRESS THE STOP KEY.
- DISPLAY REGISTER THREE (3).
 (THIS IS THE DEVICE ADDRESS).
- PRESS THE START KEY.
- SEE THE TAPE DRIVE FOR THIS
 ADDRESS.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) XX00 (I) (I)
 00 = NRZI
 01 = DUAL
 FF = PE

- SEE THE DATA LAMPS.

DO THE DATA LAMPS EQUAL 3823?

Y N
|
| 350
| GO TO PAGE 65, STEP 203,
| ENTRY POINT TU.
|

1
1
7
G
P

D G CONSOLE INPUT/OUTPUT
J Q
6 1 PAPER ONLY
4 1
7 PAGE 118 OF 183

MAP 3882-118

|
|
| 354
| THERE IS A FLOATING POINT CARD
| INSTALLED.

- ENTER ON THE CONSOLE:

| (B) 1F (I)
| (B) 0100 (I) (I)
| 01 = YES
| GO TO PAGE 65, STEP 203,
| ENTRY POINT TU.

| 355
| (ENTRY POINT MI)

- SEE IF AN OEMI ATTACHMENT CARD
IS INSTALLED ON THE SYSTEM.

IS AN OEMI ATTACHMENT CARD
INSTALLED ON THE SYSTEM?

Y N

| 356
| AN OEMI ATTACHMENT CARD IS NOT
| INSTALLED ON THE SYSTEM.

- ENTER ON THE CONSOLE:

| (B) 1F (I)
| (B) 0000 (I) (I)
| 00 = NO
| GO TO PAGE 64, STEP 202,
| ENTRY POINT FP.

1
1
9
G
R

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MAP 3882-118

G
S
1
1
9

CONSOLE INPUT/OUTPUT

MAP 3882-120

PAPER ONLY

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|
361

- SEE IF ANOTHER OEMI ATTACHMENT CARD IS INSTALLED.
- SEE IF THIS OEMI ATTACHMENT CARD IS ENTERED IN THE CONFIGURATION TABLE.

IS THERE AN OEMI ATTACHMENT CARD INSTALLED AND NOT ENTERED IN THE TABLE?

Y N

|
362

| ALL OEMI ATTACHMENT CARD(S) ARE ENTERED IN THE TABLE.

| - ENTER ON THE CONSOLE:

| -----
| (B) 1F (I)
| (B) 0000 (I) (I)
| 00 = NO

| DO THE DATA LAMPS EQUAL 3833?

Y N

|
363

| GO TO PAGE 64, STEP 202,
| ENTRY POINT FP.

1 1
2 2
2 1
G G
T U

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MAP 3882-120

G G CONSOLE INPUT/OUTPUT
T V
1 1 PAPER ONLY
2 2
0 1 PAGE 122 OF 183

MAP 3882-122

| |
| 366
| - SEE THE CONDITION CODE FROM
| REGISTER 3.

| DOES THE CONDITION CODE EQUAL
| 00?
| Y N

| | 367
| | THE OEMI CARD IS BAD.
| | - EXCHANGE THE OEMI
| | ATTACHMENT CARD.
| | - VERIFY THE REPAIR.

| 368
| CC = 00 DEVICE NOT ATTACHED.
| - SEE IF THE OEMI ATTACHMENT
| CARD IS INSTALLED.

| IS THE OEMI ATTACHMENT CARD
| INSTALLED.
| Y N

| | 369
| | GO TO PAGE 121, STEP 365,
| | ENTRY POINT OX.

| 370
| THE OEMI CARD IS BAD.
| - EXCHANGE THE OEMI ATTACHMENT
| CARD.
| - VERIFY THE REPAIR.

| 371
| GO TO PAGE 119, STEP 357,
| ENTRY POINT MO.

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MAP 3882-122

D
H
6
4

CONSOLE INPUT/OUTPUT

MAP 3882-123

PAPER ONLY

PAGE 123 OF 183

|
|

372

THE DATA LAMPS EQUAL 3836.
TWO CHANNEL SWITCH(ES) IS/ARE
CABLED TO THIS PROCESSING UNIT.

- SEE IF THE CUSTOMER IS USING
THE 'COMMON I/O' WITH THE OTHER
PROCESSING UNIT.

IF THE CUSTOMER IS USING THE
'COMMON I/O' WITH THE OTHER
PROCESSING UNIT, THE
CONFIGURATION PROGRAM CANNOT BE
USED TO CONFIGURE THE SYSTEM.

IS THE CUSTOMER USING THE 'COMMON
I/O' NOW?

Y N

|

| 373

| THE CUSTOMER IS NOT USING THE
| 'COMMON I/O' NOW.

|

| - ENTER ON THE CONSOLE:

| -----

| (B) 1F (I)
| (B) 0000 (I) (I)
| 00 = NO

|

| DO THE DATA LAMPS EQUAL 385D?

| Y N

|

| 374

| GO TO PAGE 158, STEP 470,
| ENTRY POINT EL.

|

|

|

|

|

|

|

|

|

1 1

3 2

1 4

G G

W X

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MAP 3882-123

G CONSOLE INPUT/OUTPUT
X
1 PAPER ONLY
2
3 PAGE 124 OF 183

MAP 3882-124

|
375
REFERENCE THE TWO CHANNEL SWITCH
CONSOLE.
IF THERE IS MORE THAN ONE TWO
CHANNEL SWITCH CONSOLE, DO THE
FOLLOWING ON ALL THE TWO CHANNEL
SWITCH CONSOLES.

- CHANGE THE SELECT SWITCH TO
THIS PROCESSING UNIT
- ENSURE THE MODE SWITCH IS IN
MANUAL MODE
- PRESS AND RELEASE THE RESET KEY

IS THE ACTION COMPLETE?

Y N

|
| 376
| - COMPLETE THE ACTION AND
| CONTINUE ON THE YES LEG
|

377

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)
 01 = ACTION COMPLETE

DO THE DATA LAMPS EQUAL 385F?

Y N

|
| 378
| - SEE THE DATA LAMPS.
|

DO THE DATA LAMPS EQUAL 385E?

Y N

|
| | 379
| | GO TO PAGE 158, STEP 470,
| | ENTRY POINT EL.
| |
| |
| |

1 1
2 2
6 5
G G
Y Z

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MAP 3882-124

G CONSOLE INPUT/OUTPUT
Z
1 PAPER ONLY
2
4 PAGE 125 OF 183

MAP 3882-125

|
380
THERE IS MORE THAN ONE TWO
CHANNEL SWITCH CONSOLE:
REFERENCE TWO CHANNEL SWITCH
CONSOLE THAT IS FARTHER FROM THE
PROCESSING UNIT.

- CHANGE THE SELECT SWITCH TO THE
OTHER POSITION
- PRESS AND RELEASE THE RESET KEY

IS THE ACTION COMPLETE?

Y N

|
| 381
| COMPLETE THE ACTION AND
| CONTINUE ON THE YES LEG
|

382

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)
01 = ACTION COMPLETE

GO TO PAGE 126, STEP 385,
ENTRY POINT ET.

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MAP 3882-125

G CONSOLE INPUT/OUTPUT
Y
1 PAPER ONLY
2
4 PAGE 126 OF 183

MAP 3882-126

|
383
(ENTRY POINT TG)

IF THERE IS ONLY ONE TWO CHANNEL SWITCH CONSOLE:

- DO THE FOLLOWING ON THE TWO CHANNEL SWITCH CONSOLE.

IF THERE IS MORE THAN ONE TWO CHANNEL SWITCH CONSOLE:

- DO THE FOLLOWING ON THE TWO CHANNEL SWITCH CONSOLE NEAREST TO THE PROCESSING UNIT YOU ARE USING.

- CHANGE THE SELECT SWITCH TO THE OTHER POSITION

- PRESS AND RELEASE THE RESET KEY

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)
 01 = ACTION COMPLETE

- WAIT ONE MINUTE.

IS THE CONSOLE ENTRY MADE?

Y N

|
| 384
| - COMPLETE THE ENTRY AND
| CONTINUE ON THE YES LEG
|

385
(ENTRY POINT ET)

- SEE THE DATA LAMPS.

DO THE DATA LAMPS EQUAL 3834?

Y N

| |
| |

1 1
3 2
0 7
H H
A B

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MAP 3882-126

H H H CONSOLE INPUT/OUTPUT
F G H
1 1 1 PAPER ONLY
2 2 2
7 7 7 PAGE 128 OF 183

MAP 3882-128

| | |
| | 391
| | GO TO PAGE 64, STEP 201,
| | ENTRY POINT OE.
| |
| 392
| - SEE THE TWO CHANNEL SWITCH
| CONSOLE.
|
| IF THERE IS MORE THAN ONE TWO
| CHANNEL SWITCH CONSOLE, DO THE
| FOLLOWING ON ALL THE TWO
| CHANNEL SWITCH CONSOLES.
|
| - CHANGE THE SELECT SWITCH TO
| THIS PROCESSING UNIT
| - ENSURE THE MODE SWITCH IS IN
| MANUAL MODE
| - PRESS AND RELEASE THE RESET
| KEY
|
| WHEN ACTION IS COMPLETE:
|
- ENTER ON THE CONSOLE:
(B) 1F (I)
(B) 0100 (I) (I)
01 = ACTION COMPLETE
GO TO PAGE 64, STEP 201,
ENTRY POINT OE.
393
GO TO PAGE 126, STEP 383,
ENTRY POINT TG.

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MAP 3882-128

H H CONSOLE INPUT/OUTPUT
D E
1 1 PAPER ONLY
2 2
7 7 PAGE 129 OF 183

MAP 3882-129

| |
| 394
| ERROR - TWO CHANNEL SWITCH WAS
| IN WRONG POSITION

| - ENTER ON THE CONSOLE:

| -----
| (B) 6 (I) (I)
| 6 = RESUME

| THE CONFIGURATION PROGRAM WILL
| TERMINATE.
| THE SWITCH(ES) WERE NOT
| SWITCHED CORRECTLY.
| FOLLOW THE SWITCHING
| INSTRUCTIONS CAREFULLY.
| GO TO PAGE 2, STEP 001,
| ENTRY POINT A.

|
395
ERROR - CAN'T FIND THE TWO
CHANNEL SWITCH AT ADDRESS AA

- ENTER ON THE CONSOLE:

(B) 6 (I) (I)
 6 = RESUME

THE CONFIGURATION PROGRAM WILL
TERMINATE.

THE PROBLEM IS:
1. THE SWITCHING WAS NOT DONE
CORRECTLY.
2. A SWITCH IS BAD.
3. THE TWO CHANNEL SWITCH CARD
IS BAD.

- FOLLOW THE SWITCHING
INSTRUCTIONS CAREFULLY.
GO TO PAGE 2, STEP 001,
ENTRY POINT A.

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MAP 3882-129

H H CONSOLE INPUT/OUTPUT
A C
1 1 PAPER ONLY
2 2
6 7 PAGE 130 OF 183

MAP 3882-130

| |
| 396
| ERROR - TWO CHANNEL SWITCH AT
| ADDRESS AA DID NOT DISAPPEAR

- ENTER ON THE CONSOLE:

| (B) 6 (I) (I)
| 6 = RESUME

| THE CONFIGURATION PROGRAM WILL
| TERMINATE.

| THE PROBLEM IS:

- | 1. THE SWITCHING WAS NOT DONE
| CORRECTLY.
- | 2. A SWITCH IS BAD.
- | 3. THE TWO CHANNEL SWITCH CARD
| IS BAD.

| - FOLLOW THE SWITCHING
| INSTRUCTIONS CAREFULLY.

| GO TO PAGE 2, STEP 001,
| ENTRY POINT A.

|
397
ERROR - MORE THAN ONE TWO CHANNEL
SWITCH DISAPPEARED

- ENTER ON THE CONSOLE:

(B) 6 (I) (I)
6 = RESUME

THE CONFIGURATION PROGRAM WILL
TERMINATE.

THE SWITCH(ES) WERE NOT SWITCHED
CORRECTLY.

FOLLOW THE SWITCHING INSTRUCTIONS
CAREFULLY.

GO TO PAGE 2, STEP 001,
ENTRY POINT A.

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MAP 3882-130

D G CONSOLE INPUT/OUTPUT
G W
6 1 PAPER ONLY
4 2
3 PAGE 131 OF 183

MAP 3882-131

|
|
| 398
| THE CUSTOMER IS USING THE
| COMMON I/O NOW.

| - ENTER ON THE CONSOLE:

| -----
| (B) 1F (I)
| (B) 0100 (I) (I)
| 01 = YES

| THE CONFIGURATION PROGRAM WILL
| TERMINATE.

|
399
(ENTRY POINT IS)

DETERMINE THE INNER STORAGE SIZE
INSTALLED. ENTER THE INNER
STORAGE SIZE AS FOLLOWS:

- ENTER ON THE CONSOLE:

| -----
| (B) 1F (I)
| (B) 0X00 (I) (I)
| 03 = 16K INNER STORAGE
| 07 = 32K INNER STORAGE
| 0B = 48K INNER STORAGE
| 0F = 64K INNER STORAGE

- SEE THE DATA LAMPS:

DO THE DATA LAMPS EQUAL 3851?

Y N

|
| 400

| - SEE THE DATA LAMPS:

| DO THE DATA LAMPS EQUAL 3823?

| Y N

1 1 1
3 3 3
2 2 2
H H H
J K L

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MAP 3882-131

H H H CONSOLE INPUT/OUTPUT
J K L
1 1 1 PAPER ONLY
3 3 3
1 1 1 PAGE 132 OF 183

MAP 3882-132

| | |
| | 401
| | GO TO PAGE 64, STEP 200,
| | ENTRY POINT TS.
| |
| 402
| THE ENTRY MADE BY YOU IS NOT
| VALID.

- ENTER ON THE CONSOLE:

(B) 6 (I) (I)
 6 = RESUME

| GO TO PAGE 131, STEP 399,
| ENTRY POINT IS.

403

- SEE IF AN ADDRESS EXPANDER IS
 INSTALLED.
- SEE IF AN ADDRESS TRANSLATOR IS
 INSTALLED.

IF MORE THAN 64K OF STORAGE IS
INSTALLED, ANSWER YES.

IS AN ADDRESS EXPANDER/TRANSLATOR
INSTALLED?

Y N

404

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0000 (I) (I)
 00 = NOT INSTALLED

GO TO PAGE 64, STEP 201,
ENTRY POINT OE.

1
3
3
H
M

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MAP 3882-132

H
M
1
3
2

CONSOLE INPUT/OUTPUT

MAP 3882-133

PAPER ONLY

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405
THERE IS AN ADDRESS
EXPANDER/TRANSLATOR INSTALLED.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)
01 = IS INSTALLED

- SEE THE DATA LAMPS:

DO THE DATA LAMPS EQUAL 3852?

Y N

406
GO TO PAGE 64, STEP 200,
ENTRY POINT TS.

1
3
4
H
N

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MAP 3882-133

|
407
(ENTRY POINT OS)

'OXXX = NUMBER OF 16K BLOCKS OF OUTER STORAGE'

- SEE THE NUMBER OF 16K BLOCKS OF OUTER STORAGE INSTALLED.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) OXXX (I) (I)
XXX = NUMBER OF 16K OUTER STORAGE INSTALLED

TOTAL STOR. INST.	CONFIGURATION ENTRIES IN 16K BLOCKS	
	INNER STOR.	OUTER STOR.
80K	FOF	F0001
96K	FOF	F0002
112K	FOF	F0003
128K	FOF	F0004
160K	FOF	F0006
192K	FOF	F0008
224K	FOF	F000A
256K	FOF	F000C
384K	FOF	F0014
512K	FOF	F001C
768K	FOF	F002C
1024K	FOF	F003C
1536K	FOF	F005C
2048K	FOF	F007C

- SEE THE DATA LAMPS:

THIS CHART ASSUMES THAT STORAGE CARDS ARE INSTALLED CONTINUOUSLY

DO THE DATA LAMPS EQUAL 3823?

Y N

|
408
GO TO PAGE 64, STEP 200,
ENTRY POINT TS.

D H CONSOLE INPUT/OUTPUT
F P
6 1 PAPER ONLY
4 3
4 PAGE 135 OF 183

MAP 3882-135

|
| 409
| THE ENTRY MADE BY YOU IS NOT
| VALID.

| - ENTER ON THE CONSOLE:

| -----
| (B) 6 (I) (I)
| 6 = RESUME

| GO TO PAGE 131, STEP 399,
| ENTRY POINT IS.

410

- PRESS THE LOAD KEY.
- WAIT ONE MINUTE.
- SEE THE DATA LAMPS.

3801 IN THE DATA LAMPS IS:
THE ALTERNATE CONSOLE ASSIGNED
RETURNED A BAD CONDITION CODE.

DO THE DATA LAMPS EQUAL 3801?

Y N

| 411

| - SEE IF THE ALTERNATE CONSOLE
| YOU ASSIGNED IS A PRINTER OR
| DISPLAY WITH/WITHOUT A
| KEYBOARD.

| IS THE ALTERNATE CONSOLE YOU
| ASSIGNED A PRINTER OR DISPLAY
| WITH/WITHOUT A KEYBOARD?

Y N

| 412

| GO TO PAGE 2, STEP 001,
| ENTRY POINT A.

413

GO TO MAP 3881, ENTRY POINT A.

1
3
6
H
Q

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MAP 3882-135

H
S
1
3
6
CONSOLE INPUT/OUTPUT
PAPER ONLY
PAGE 137 OF 183

MAP 3882-137

|
415
YOU HAVE ASSIGNED A DEVICE AND/OR
TYPE THAT IS NOT CORRECT. USE
STOP ON ADDRESS TO ASSIGN THE
CORRECT ALTERNATE CONSOLE. BE
CAREFUL OF YOUR ENTRIES. ENSURE
THEY ARE CORRECT.

- PRESS THE STOP KEY.
- PRESS THE STOP ON ADDRESS KEY.
- PRESS THE ONE (1) KEY.
- PRESS THE NINE (9) KEY.
- PRESS THE FIVE (5) KEY.
- PRESS THE ZERO (0) KEY.
- PRESS THE STORE KEY.
- PRESS THE STOP ON ADDRESS KEY.
- PRESS THE STOP ON ADDRESS KEY.
- PRESS THE LOAD KEY.
- WAIT FOR THE STOP LED TO GO ON.
(THE DATA LEDS SHOULD BE 1950)

IS THE PROCESSING UNIT A 4952,
4953 OR 4955?

Y N

|
416
| THE STOP LED WILL BE ON, BUT
| THE DATA LEDS MAY NOT BE EQUAL
| TO 1950.

- PRESS THE START KEY UNTIL
DATA LEDS = 1950 AND THE STOP
LED IS ON.
- GO TO PAGE 138, STEP 417,
ENTRY POINT AU.

1
3
8
H
T

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MAP 3882-137

H CONSOLE INPUT/OUTPUT
T
1 PAPER ONLY
3
7 PAGE 138 OF 183

MAP 3882-138

|
417
(ENTRY POINT AU)
- SELECT THE ALTERNATE CONSOLE
 YOU WANT TO USE.

AN ALTERNATE CONSOLE IS:	MAP/ TYPE	AA TT
4973 PRINTER	6800	AA68
4974 PRINTER	6400	AA64
5200 PRINTERS	6A00	AA6A
MULTIFUNCTION 3101-7485-4975	E600	AAE6
3101 RPQ D02350	81F0	AA81
3101 ACCA SL	E800	AAE8
3101 ACCA ML	E900	AAE9
3101 FPMLC	EA00	AAEA
4978	4500	AA45
4979	4400	AA44
4980	F900	AAF9
7485 RPQ D02350	81FX	AA81
TTY ATTACHMENT %	4000	AA40
5251/5291	E400	AAE4

DID YOU SELECT A CONSOLE?
Y N
|
418
- SELECT THE CONSOLE AND
 CONTINUE ON YES LEG

1
3
9
H
U

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MAP 3882-138

H CONSOLE INPUT/OUTPUT
U
1 PAPER ONLY
3
8 PAGE 139 OF 183

MAP 3882-139

|
419
- DISPLAY REGISTER ZERO (0).
- ENTER THE NEW ALTERNATE CONSOLE
 DEVICE ADDRESS AND TYPE (AATT).
- PRESS THE STORE KEY.
- SEE IF THE ALTERNATE CONSOLE
 SELECTED IS OTHER THAN A 4975,
 5251/5291, 4980, 7485 OR 5200
 SERIES PRINTER.

IS THE CONSOLE OTHER THAN ONE OF
THE ABOVE?

Y N

|
| 420
| - DISPLAY REGISTER ONE (1).
| - SEE IF THE ALTERNATE CONSOLE
| ASSIGNED IS A 4975.

| IS THE CONSOLE ASSIGNED A 4975?

| Y N

| |
| | 421
| | - SEE IF THE ALTERNATE
| | CONSOLE ASSIGNED IS A 52X1.

| | IS THE CONSOLE ASSIGNED A
| | 52X1?

| | Y N

| | |
| | | 422
| | | - SEE IF THE ALTERNATE
| | | CONSOLE ASSIGNED IS A
| | | 4980 DISPLAY.

| | | IS THE CONSOLE ASSIGNED A
| | | 4980 DISPLAY?

| | | Y N

1 1 1 1 1
4 4 4 4 4
3 2 2 1 0
H H H H H
V W X Y Z

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MAP 3882-139

H
Z
1
3
9
CONSOLE INPUT/OUTPUT
PAPER ONLY
PAGE 140 OF 183

MAP 3882-140

|
423
- SEE IF THE ALTERNATE CONSOLE
ASSIGNED IS A 7485.

IS THE CONSOLE ASSIGNED A 7485?

Y N

|
424
- SEE IF THE ALTERNATE CONSOLE
ASSIGNED IS A 5200 PRINTER.

IS THE CONSOLE ASSIGNED A 5200
PRINTER?

Y N

|
425
GO TO PAGE 143, STEP 431,
ENTRY POINT AV.

|
426
5200 SERIES PRINTER MUST BE
ENTERED IN R1.

- PRESS THE 0 KEY.
- PRESS THE 0 KEY.
- PRESS THE 0 KEY.
- PRESS THE X KEY.
WHERE X = PAAA
P = PORT NUMBER 0 - 1
AAA = PRINTER ADDRESS 0 - 6
- PRESS THE STORE KEY.
GO TO PAGE 143, STEP 431,
ENTRY POINT AV.

1
4
1
J
A

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MAP 3882-140

H J CONSOLE INPUT/OUTPUT
Y A
1 1 PAPER ONLY
3 4
9 0 PAGE 141 OF 183

MAP 3882-141

| |
| 427
| 7485 - A MODEL (53 OR 63) MUST
| BE ENTERED IN R1.
|
| - PRESS THE 0 KEY.
| - PRESS THE 0 KEY.
| - PRESS THE 0 KEY.
| - PRESS THE X KEY.
| X = 1 = MODEL 53
| 2 = MODEL 63
| - PRESS THE STORE KEY.
| GO TO PAGE 143, STEP 431,
| ENTRY POINT AV.

428
4980 - A SUBADDRESS AND LINE
SPEED MUST BE ENTERED IN R1.

- PRESS Z KEY.
- PRESS Y KEY.
- PRESS X KEY.
- PRESS X KEY.
 Z = PORT ADDRESS 0-1
 Y = LINE SPEED 0=100K
 1=250K
 2=500K
 XX = TERMINAL ADDRESS
- PRESS THE STORE KEY.
GO TO PAGE 143, STEP 431,
ENTRY POINT AV.

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MAP 3882-141

H H CONSOLE INPUT/OUTPUT
W X
1 1 PAPER ONLY
3 3
9 9 PAGE 142 OF 183

MAP 3882-142

| |
| 429
| 52X1 - A CABLE AND STATION
| ADDRESS MUST BE ENTERED IN R1.
|
| - PRESS 0 KEY.
| - PRESS 0 KEY.
| - PRESS X KEY.
| - PRESS Y KEY.
| X = CABLE ADDRESS 0-3
| Y = STATION ADDRESS 0-6
| - PRESS THE STORE KEY.
| GO TO PAGE 143, STEP 431,
| ENTRY POINT AV.

430
4975 - A MODEL (01L OR 02L) MUST
BE ENTERED IN R1.

- PRESS THE 0 KEY.
- PRESS THE 0 KEY.
- PRESS THE 0 KEY.
- PRESS THE X KEY.
 3 = MODEL 01L
 4 = MODEL 02L
- PRESS THE STORE KEY.

GO TO PAGE 143, STEP 431,
ENTRY POINT AV.

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MAP 3882-142

H H CONSOLE INPUT/OUTPUT
R V
1 1 PAPER ONLY
3 3
6 9 PAGE 143 OF 183

MAP 3882-143

| |
| 431
| (ENTRY POINT AV)
|
| - PRESS THE STOP ON ADDRESS
| KEY.
| - PRESS THE START KEY.
|
| REMEMBER - THE 'OTHER'
| ALTERNATE CONSOLE YOU JUST
| ASSIGNED IS USED ONLY UNTIL YOU
| IPL THE PROCESSING UNIT AGAIN.
| DO THE ABOVE PROCEDURE BEFORE
| EACH IPL, OR THE OLD ALTERNATE
| CONSOLE WILL BE USED BY THE
| DIAGNOSTICS.
|
| CORRECT THE CONFIGURATION TABLE
| USING THE TEMPORARY ALTERNATE
| CONSOLE.
| GO TO MAP 0020, ENTRY POINT A.
|
432
GO TO PAGE 2, STEP 001,
ENTRY POINT A.

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MAP 3882-143

D D CONSOLE INPUT/OUTPUT
C D
6 6 PAPER ONLY
3 3

PAGE 144 OF 183

MAP 3882-144

| |
| |
| 433
| A 4980 IS ASSIGNED AS THE
| CONSOLE IN THE TABLE. THE
| SUBADDRESS AND LINE SPEED MUST
| BE ENTERED IN THE CONFIGURATION
| TABLE.

- ENTER ON THE CONSOLE:

(B) IF (I)
(B) ZYXX (I) (I)
 Z = PORT ADDRESS 0-1
 Y = LINE SPEED 0=100K
 1=250K
 2=500K
 XX = TERMINAL ADDRESS

GO TO PAGE 183, STEP 528,
ENTRY POINT YY.

434

- SEE THE CONSOLE TO BE ASSIGNED.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0X00 (I) (I)
WHERE X = PAAA
 P = PORT NUMBER 0 - 1
 AAA = PRINTER ADDRESS 0 - 6

GO TO PAGE 183, STEP 528,
ENTRY POINT YY.

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MAP 3882-144

D D CONSOLE INPUT/OUTPUT
A B
6 6 PAPER ONLY
3 3
 PAGE 145 OF 183

MAP 3882-145

| |
| |
| 435
| - SEE THE CONSOLE TO BE
| ASSIGNED.
|
- ENTER ON THE CONSOLE:
(B) 1F (I)
(B) 0X00 (I) (I)
0 = 3101 DISPLAY
1 = 7485 MOD 53 DISPLAY
2 = 7485 MOD 63 DISPLAY
3 = 4975 MOD 01L PRINTER
4 = 4975 MOD 02L PRINTER
GO TO PAGE 183, STEP 528,
ENTRY POINT YY.

436
A 52X1 IS ASSIGNED AS THE CONSOLE
IN THE TABLE. THE CABLE ADDRESS
AND STATION ADDRESS MUST BE
ENTERED IN THE CONFIGURATION
TABLE.

- ENTER ON THE CONSOLE:

(B) IF (I)
(B) XY00 (I) (I)
X = CABLE ADDRESS 0-3
Y = STATION ADDRESS 0-6

- WAIT ONE MINUTE.
GO TO PAGE 183, STEP 528,
ENTRY POINT YY.

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MAP 3882-145

C C CONSOLE INPUT/OUTPUT
X Y
6 6 PAPER ONLY
2 2

MAP 3882-146

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| |
| |
| 437
| THE CONSOLE ASSIGNED IS THE
| PROGRAMMER OR MAINTENANCE
| CONSOLE.

- ENTER ON THE CONSOLE:

| (B) 6 (I) (I)
| 6 = RESUME

| WAIT ONE MINUTE.

| IS THE CONSOLE ENTRY MADE?

| Y N

| |
| | 438

| | - MAKE THE CONSOLE ENTRY AND
| | CONTINUE ON THE YES LEG.

| |
| | 439

| GO TO PAGE 64, STEP 199,
| ENTRY POINT ST.

|
440

THE DATA LAMPS EQUAL 3829.
THE ALTERNATE CONSOLE YOU
ASSIGNED IS NOT ATTACHED TO THE
SYSTEM.

- ENTER ON THE CONSOLE:

(B) 6 (I) (I)
 6 = RESUME

GO TO PAGE 62, STEP 193,
ENTRY POINT VE.

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MAP 3882-146

A CONSOLE INPUT/OUTPUT
G
1 PAPER ONLY
9
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|
|
441
- COUNT THE NUMBER OF
 CONFIGURATION ERROR(S).
- SEE THE ERROR(S) RECORDED FROM
 THE DATA LAMPS.

IS THERE ONLY ONE (1)
CONFIGURATION ERROR?
Y N

| 442
| - SEE IF THERE ARE ONLY TWO (2)
| CONFIGURATION ERRORS.

| ARE THERE ONLY TWO (2)
| CONFIGURATION ERRORS?
| Y N

| 443
| - SEE THE RECORDED HALTS.
| WERE ALL THE RECORDED HALTS
| 3840 AND 3842?
| Y N

| 444
| - SEE THE RECORDED HALTS.
| WERE ALL THE RECORDED HALTS
| 3841?
| Y N

| 445
| - SEE THE RECORDED HALTS.
| WERE ALL THE RECORDED
| HALTS 3842?
| Y N

1 1 1 1 1 1
5 5 5 4 4 4
6 3 0 9 8 8
J J J J J J
B C D E F G

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J J CONSOLE INPUT/OUTPUT
F G
1 1 PAPER ONLY
4 4
7 7 PAGE 148 OF 183

MAP 3882-148

| |
| 446
| THERE ARE NO CONFIGURATION
| ERROR(S). YOU WANT TO USE THE
| CONFIGURATION PROGRAM. SEE
| WHAT YOU WANT TO DO.
| GO TO PAGE 20, STEP 056,
| ENTRY POINT OT.

|
447
THERE ARE MISSING BIT(S) IN THE
ID WORD. THIS IS A DATA BUS
PROBLEM.

USE THE ENTRY NUMBERS (RIGHTMOST
BYTE IN R3), YOUR TABLE IN THE
SERVICE GUIDE 08.01.04, AND THE
DEVICE TABLE IN 08.01.05 TO
DETERMINE THE FAILING DEVICES.
COMPARE THE ID WORD RECEIVED (R4)
TO THE ID WORD EXPECTED (TABLE IN
08.01.05) TO DETERMINE THE
SUSPECT BIT LINES. SEE THE
PROCESSING UNIT (AXXXX) AND 4959
EXPANSION LOGICS IN MLD VOLUME
01.

- USE THE MULTIMETER.
- CHECK CONTINUITY OF THE SUSPECT
DATA BUS LINES FROM THE
PROCESSING UNIT TO THE FAILING
DEVICES.

IF THE CAUSE IS NOT FOUND
GO TO MAP 0070, ENTRY POINT A.

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MAP 3882-148

J CONSOLE INPUT/OUTPUT
E
1 PAPER ONLY
4
7 PAGE 149 OF 183

MAP 3882-149

|
448

AN OIO CONDITION CODE OF 00 WAS RETURNED FROM READ ID'S TO SEVERAL DEVICES THAT HAVE ENTRIES IN THE CONFIGURATION TABLE ON THE DISKETTE.

USE THE ENTRY NUMBERS (RIGHTMOST BYTE IN R3), YOUR TABLE IN THE SERVICE GUIDE 08.01.04, AND THE DEVICE TABLE IN SERVICE GUIDE 08.01.05 TO DETERMINE FAILING DEVICES. SEE THE PROCESSING UNIT (AXXXX) AND 4959 EXPANSION LOGICS IN MLD VOLUME 01.

- USE THE MULTIMETER.
- CHECK ALL THE VOLTAGES AT THE FAILING ATTACHMENT CARD NEAREST THE PROCESSING UNIT.
- CHECK THE DATA BUS FOR LOOSE CABLE(S)/REPOWER CARD(S) FROM THE PROCESSING UNIT TO THE FAILING DEVICES.

IF THE CAUSE IS NOT FOUND
GO TO MAP 0070, ENTRY POINT A.

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MAP 3882-149

J CONSOLE INPUT/OUTPUT
J
1 PAPER ONLY
5
0 PAGE 151 OF 183

|
450

- UNSEAT THE ATTACHMENT CARDS ONE AT A TIME.
- IPL AFTER EACH CARD IS UNSEATED UNTIL THE FAILURE DISAPPEARS (NO MORE 3844 HALTS).

TO MAINTAIN THE POLL SEQUENCE, START UNSEATING WITH THE CARDS THAT ARE FARTHER FROM THE PROCESSING UNIT.

EACH TIME A CARD IS UNSEATED IT WILL GENERATE A 3841 HALT FOR THAT ADDRESS.

ENTER '6' TO BYPASS THE HALTS THAT ARE NOT ASSOCIATED WITH THE PROBLEM.

WHEN THE FAILING CARD HAS BEEN IDENTIFIED, TERMINATE THE CONFIGURATION PROGRAM:

- ENTER ON THE CONSOLE:

 (B) 5 (I) (I)
 5 = TERMINATE

- SEAT ALL THE UNSEATED CARDS.
- GO TO THE ENTRY MAP FOR THE FAILING DEVICE.

THERE ARE DEVICES AND SUBSYSTEMS THAT USE MORE THAN ONE ADDRESS. SEE THE DEVICE PROLOG, 0.0, 1.4 AND 4.0.

THERE MAY BE SPECIAL INSTRUCTIONS FOR CONFIGURATION ERROR(S) AND OR A MACHINE CHECK.

IF THIS DOES NOT ISOLATE THE PROBLEM,
GO TO MAP 0070, ENTRY POINT A

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J CONSOLE INPUT/OUTPUT
H
1 PAPER ONLY
5
0 PAGE 152 OF 183

MAP 3882-152

|
451

- UNSEAT THE ATTACHMENT CARDS ONE AT A TIME.

- IPL AFTER EACH CARD IS UNSEATED UNTIL THE FAILURE DISAPPEARS (NO MORE 3844 HALTS).

TO MAINTAIN THE POLL SEQUENCE, START UNSEATING WITH THE CARDS THAT ARE FARTHER FROM THE PROCESSING UNIT.

EACH TIME A CARD IS UNSEATED IT WILL GENERATE A 3841 HALT FOR THAT ADDRESS.

ENTER '6' TO BYPASS THE HALTS THAT ARE NOT ASSOCIATED WITH THE PROBLEM.

WHEN THE FAILING CARD HAS BEEN IDENTIFIED, TERMINATE THE CONFIGURATION PROGRAM:

- ENTER ON THE CONSOLE:

(B) 5 (I) (I)
 5 = TERMINATE

- SEAT ALL THE UNSEATED CARDS.

- GO TO THE ENTRY MAP FOR THE FAILING DEVICE.

THERE ARE DEVICES AND SUBSYSTEMS THAT USE MORE THAN ONE ADDRESS. SEE THE DEVICE PROLOG, 0.0, 1.4 AND 4.0.

THERE MAY BE SPECIAL INSTRUCTIONS FOR CONFIGURATION ERROR(S) AND OR A MACHINE CHECK.

IF THIS DOES NOT ISOLATE THE PROBLEM,
GO TO MAP 0070, ENTRY POINT A

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MAP 3882-152

J
C
1
4
7

CONSOLE INPUT/OUTPUT

MAP 3882-153

PAPER ONLY

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|
452
THERE ARE TWO (2) CONFIGURATION
ERRORS.

- SEE THE NOTE TO THE RIGHT

- SEE REGISTER 3 RECORDED BEFORE.
REGISTER 3 = 00XX
XX = TABLE ENTRY #

SEE REGISTER 4 RECORDED BEFORE.
REGISTER 4 = 00XX
XX = TABLE ENTRY #

AT HALT 3840 (IN HARDWARE NOT IN
TABLE) THE ID WORD RECEIVED WAS
IN R4. THE ADDRESS WAS IN R3
(AAXX).

AT HALT 3841 (IN TABLE NOT IN
HARDWARE) R3 HAS THE TABLE ENTRY
NUMBER (XXEE).

USE THIS ENTRY NUMBER AND THE
TABLE IN 08.01.04 TO DETERMINE ID
WORD EXPECTED.

```

+-----+
| CONFIGURATION PROGRAM ERRORS |
+-----+
| *3840 IN HARDWARE, NOT IN TABLE |
+-----+
| *3841 IN TABLE, NOT IN HARDWARE |
+-----+
| *3842 ID MISMATCH |
+-----+
| *3843 TYPE AND ID ARE INCORRECT |
+-----+
| 3844 ERROR IN READ ID |
| REG 3 = DEVICE ADDRESS/ CC |
| REG 4 = DEVICE ID. |
+-----+
| *3849 BAD/NO READ ID FROM CONS. |
+-----+
| 384B CONFIGURATION CHAIN IS |
| LONG. BYTE 02 BIT 01 IN |
| ENTRY IS NOT CORRECT. |
+-----+
| 384D PROGRAM 38F1 |
| TABLE IS NOT ON DISKETTE |
+-----+
| 384F DUPLICATE ADDRESS |
| REG 2 = DEVICE ADDRESS |
| REG 3 = TABLE ENTRY NUMBER |
| REG 4 = TABLE ENTRY NUMBER |
+-----+
| * REG 3 AND 4 CONTENTS |
| REG 3 = AAEE = TABLE ENTRY |
| AA = DEVICE ADDRESS |
| REG 4 = IDID = DEVICE ID. |
+-----+

```

WAS THERE ONE 3840 HALT AND ONE
3841 HALT?

Y N
| |
| |
| |
| |

1 1
5 5
4 4
J J
K L

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MAP 3882-153

J J CONSOLE INPUT/OUTPUT
K L
1 1 PAPER ONLY
5 5
3 3 PAGE 154 OF 183

| |
| 453
| GO TO PAGE 158, STEP 470,
| ENTRY POINT EL.

|
454
- SEE IF THE 3840 AND 3841 ERRORS
HAVE THE SAME ID WORD.

DO THE 3840 AND 3841 ERRORS HAVE
THE SAME ID WORD?

Y N
|
| 455
| - SEE IF THE 3841 ERROR HAS AN
| ID WORD OF 0000.

|
| DID THE 3841 ERROR HAVE AN ID
| WORD OF 0000?

| Y N
| |
| | 456
| | GO TO PAGE 158, STEP 470,
| | ENTRY POINT EL.

| |
| 457
| THE 3841 ERROR HAS THE WRONG
| ADDRESS.
| THE 3840 ERROR HAS THE CORRECT
| ADDRESS.

| - CHANGE TABLE ENTRY TO THE
| CORRECT ADDRESS FROM REGISTER
| 3 OF THE 3840 ERROR.
| GO TO PAGE 57, STEP 173,
| ENTRY POINT MD.

1
5
5
J
M

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MAP 3882-154

J
M
1
5
4

CONSOLE INPUT/OUTPUT

MAP 3882-155

PAPER ONLY

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|
458

A DEVICE IS ANSWERING TO THE WRONG ADDRESS AND FAILING TO ANSWER TO THE CORRECT ADDRESS, OR THE ADDRESS JUMPERS HAVE CHANGED.

USE THE REGISTER CONTENTS AND MAP 3880 SECTION 08.01.05 TO DETERMINE THE FAILING DEVICE.

- VERIFY THE ADDRESS JUMPERING ON THE ATTACHMENT CARD.

IS THE ADDRESS JUMPERING CORRECT ON THE CARD?

Y N

|
| 459

| THE CARD IS ANSWERING TO THE WRONG ADDRESS.

| - IGNORE THE CONFIGURATION ERRORS AND GO TO THE DEVICE ENTRY MAP FOR THE FAILING CARD.

| THERE ARE DEVICES AND SUBSYSTEMS THAT USE MORE THAN ONE ADDRESS.

| - SEE THE DEVICE PROLOG, 0.0, 1.4 AND 4.0.

| THERE MAY BE SPECIAL INSTRUCTIONS FOR CONFIGURATION ERROR(S) AND OR A MACHINE CHECK.

1
5
6
J
N

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MAP 3882-155

J J CONSOLE INPUT/OUTPUT
B N
1 1 PAPER ONLY
4 5
7 5 PAGE 156 OF 183

MAP 3882-156

| |
| 460
| THE CARD IS ANSWERING TO THE
| CORRECT ADDRESS.
|
| - CORRECT THE CONFIGURATION
| TABLE.
|
| IF YOU POWER OFF TO CHECK THE
| CARD JUMPERS, IPL AGAIN AND
| ENTER '6' TO ALL HALTS UNTIL
| HALT 382E IS IN THE DATA LEDS.
| GO TO PAGE 20, STEP 056,
| ENTRY POINT OT.

461
- SEE THE ERROR RECORDED FROM THE
DATA LAMPS.

3840 IN THE DATA LAMPS IS:
IN HARDWARE, NOT IN TABLE.

DID THE RECORDED ERROR IN THE
DATA LAMPS EQUAL 3840?

Y N

| 462
| - SEE THE ERROR RECORDED FROM
| THE DATA LAMPS.

3841 IN THE DATA LAMPS IS:
IN TABLE, NOT IN HARDWARE.

| DID THE RECORDED ERROR IN THE
| DATA LAMPS EQUAL 3841?

Y N

| 463
| - SEE THE ERROR RECORDED FROM
| THE DATA LAMPS.

3842 IN THE DATA LAMPS IS:
ID MISMATCH.

| DID THE RECORDED ERROR IN THE
| DATA LAMPS EQUAL 3842?

Y N

1 1 1 1
7 7 7 5
6 2 0 7
J J J J
P Q R S

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MAP 3882-156

J CONSOLE INPUT/OUTPUT
S
1 PAPER ONLY
5
6 PAGE 157 OF 183

MAP 3882-157

|
464
- SEE THE ERROR RECORDED FROM THE
 DATA LAMPS.

3843 IN THE DATA LAMPS IS:
DEVICE TYPE AND ID NOT CORRECT.

DID THE RECORDED ERROR IN THE
DATA LAMPS EQUAL 3843?
Y N

| 465
| - SEE THE ERROR RECORDED FROM
| THE DATA LAMPS.

3844 IN THE DATA LAMPS IS:
ERROR IN READ ID.

| DID THE RECORDED ERROR IN THE
| DATA LAMPS EQUAL 3844?
| Y N

| 466
| - SEE THE ERROR RECORDED FROM
| THE DATA LAMPS.

3849 IN THE DATA LAMPS IS:
ALTERNATE CONSOLE PROBLEM.

| DID THE RECORDED ERROR IN THE
| DATA LAMPS EQUAL 3849?
| Y N

| 467
| - SEE THE ERROR RECORDED
| FROM THE DATA LAMPS.

384B IN THE DATA LAMPS IS:
CONFIGURATION CHAIN IS LONG.

| DID THE RECORDED ERROR IN
| THE DATA LAMPS EQUAL 384B?
| Y N

| 468
| - SEE THE ERROR RECORDED
| FROM THE DATA LAMPS.

384D IN THE DATA LAMPS IS:
CONFIGURATION TABLE NOT ON
DISKETTE.

| DID THE RECORDED ERROR IN
| THE DATA LAMPS EQUAL
| 384D?

| Y N
|
|

1 1 1 1 1 1
6 6 6 6 6 5
9 7 5 4 3 8
J J J J J J
T U V W X Y

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MAP 3882-157

J CONSOLE INPUT/OUTPUT
Y
1 PAPER ONLY
5
7 PAGE 158 OF 183

MAP 3882-158

|
469
- SEE THE ERROR RECORDED FROM THE
 DATA LAMPS.

384F IN THE DATA LAMPS IS:
DUPLICATE ADDRESS IN TABLE.

DID THE RECORDED ERROR IN THE
DATA LAMPS EQUAL 384F?

Y N

| 470
| (ENTRY POINT EL)
| - SEE THE DATA LAMPS.

3802 OR 3803 IN THE DATA LAMPS
IS:
PROGRAM OR MACHINE CHECK.

| IS THE ERROR IN THE DATA LAMPS
| 3802 OR 3803?

Y N

| 471
| - SEE THE DATA LAMPS.

3800 OR 3805 IN THE DATA LAMPS
IS:
PT OR RDY ENTER.

| DO THE DATA LAMPS EQUAL 3800
| OR 3805?

Y N

| 472
| - SEE THE DATA LAMPS.

| IS THE ERROR IN THE DATA
| LAMPS 3813?

Y N

| 473
| - SEE THE DATA LAMPS.

| IS THE ERROR IN THE DATA
| LAMPS 3814?

Y N

1 1 1 1 1 1
6 6 6 6 6 5
2 1 1 1 0 9
J K K K K K
Z A B C D E

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MAP 3882-158

K CONSOLE INPUT/OUTPUT
E
1 PAPER ONLY
5
8 PAGE 159 OF 183

MAP 3882-159

|
474
- SEE THE DATA LAMPS.

IS THE ERROR IN THE DATA LAMPS
3823?

Y N

| 475
| - SEE THE DATA LAMPS.

| IS THE ERROR IN THE DATA LAMPS
| 384B?

| Y N

| 476
| THE RECORDED DATA LAMPS EQUAL
| XXXX.

| - SEE MAP 0010, SECTION
| 06.01.00 - DCP HALT LIST
| AND SECTION 06.07.00 -
| CONFIGURATION HALT LIST.

| IF YOU CANNOT RECOVER FROM
| THE ERROR USING MAP 0010, THE
| CONFIGURATION PROGRAM CAN BE
| STARTED AGAIN AS FOLLOWS:

| - PRESS THE RESET KEY.
| - PRESS THE START KEY.
| - WAIT ONE MINUTE.

| THE CONFIGURATION PROGRAM
| WILL START AGAIN.
| GO TO PAGE 2, STEP 001,
| ENTRY POINT A.

1 1
6 6
0 0
K K
F G

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MAP 3882-159

K K K CONSOLE INPUT/OUTPUT
D F G
1 1 1 PAPER ONLY
5 5 5
8 9 9 PAGE 160 OF 183

MAP 3882-160

| | |
| | 477
| | THE RECORDED DATA LAMPS EQUAL
| | 384B.
| | ONE OR MORE OF THE CHAINED
| | ENTRIES IS LONG.
| | THE ENTRY OR ENTRIES MUST BE
| | CHANGED.
| | GO TO PAGE 57, STEP 173,
| | ENTRY POINT MD.

| |
| 478
| THE RECORDED DATA LAMPS EQUAL
| 3823.
| ENTRY NOT VALID.

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

| RETURN TO THE STEP THAT SENT
| YOU HERE AND MAKE A CORRECT
| ENTRY.

| 479
| THE RECORDED DATA LAMPS EQUAL
| 3814.
| A COMMAND SEQUENCE HAS BEEN
| STARTED FROM THE CONSOLE.

- PRESS THE DATA BUFFER KEY.
- ENTER THE DATA.
- PRESS CONSOLE INTERRUPT KEY.
- PRESS CONSOLE INTERRUPT KEY.
- RETURN TO THE STEP THAT SENT
 YOU HERE AND CONTINUE.

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MAP 3882-160

K K K CONSOLE INPUT/OUTPUT
A B C
1 1 1 PAPER ONLY
5 5 5
8 8 8 PAGE 161 OF 183

MAP 3882-161

| | |
| | 480
| | THE RECORDED DATA LAMPS EQUAL
| | 3813.
| | A COMMAND SEQUENCE HAS BEEN
| | ENTERED FROM THE CONSOLE.
| |
| | - PRESS THE CONSOLE INTERRUPT
| | KEY.
| |
| | DCP WILL EXECUTE THE COMMAND.
| |
| | - RETURN TO THE STEP THAT
| | SENT YOU HERE AND CONTINUE.
| |
| 481
| THE CONFIGURATION PROGRAM HAS
| TERMINATED.
| GO TO PAGE 2, STEP 001,
| ENTRY POINT A.
|
482
THE RECORDED DATA LAMPS EQUAL
3802 OR 3803.
THIS IS A PROGRAM OR MACHINE
CHECK.
GO TO MAP 3870, ENTRY POINT A.

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MAP 3882-161

J CONSOLE INPUT/OUTPUT
Z
1 PAPER ONLY
5
8 PAGE 162 OF 183

MAP 3882-162

|
483
THE RECORDED DATA LAMPS EQUAL
384F.

THE CONFIGURATION TABLE HAS TWO
ENTRIES WITH THE SAME ADDRESS
ASSIGNED.

SEE REGISTER 2 RECORDED BEFORE.

REG 2 = 00AA

AA = DEVICE ADDRESS

SEE REGISTER 3 RECORDED BEFORE.

REG 3 = 00XX

XX = TABLE ENTRY #

SEE REGISTER 4 RECORDED BEFORE.

REG 4 = 00XX

XX = TABLE ENTRY #

AN ENTRY IN THE CONFIGURATION
TABLE IS NOT CORRECT. THE ENTRY
THAT IS NOT CORRECT MUST BE
CHANGED.

GO TO PAGE 57, STEP 173,

ENTRY POINT MD.

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MAP 3882-162

J CONSOLE INPUT/OUTPUT
X
1 PAPER ONLY
5
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MAP 3882-163

|
484
THE RECORDED DATA LAMPS EQUAL
384D.
THE ERROR IS THE CONFIGURATION
TABLE PROGRAM 38F1 IS NOT ON THE
DISKETTE.
THE 38F1 PROGRAM IS THE
CONFIGURATION TABLE.

VTOC = VOLUME TABLE OF CONTENTS
THE VTOC MUST HAVE AN ENTRY
U38F1.
SEE 09.00.00 - GENERAL UTILITY
PROGRAM.
IF THERE IS NO ENTRY, THE PROGRAM
MUST BE ADDED TO THE DISKETTE.
SEE 09.04.07 - GENERAL UTILITY
PROGRAM.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0500 (I) (I)
 5 = TERMINATE PROGRAM

- LOAD PROGRAM 38F9 AS FOLLOWS:

- ENTER ON THE CONSOLE:

(B) B (I)
(B) 38F9 (I) (I)
 38F9 = UTILITY PROGRAM

- FOLLOW INSTRUCTIONS IN THE
UTILITY PROGRAM.

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MAP 3882-163

485
384B - CONFIGURATION CHAIN IS TOO LONG.
THE CONFIGURATION TABLE IN STORAGE MUST BE DISPLAYED. THERE ARE MORE THAN EIGHT (8) ENTRIES CHAINED IN THE TABLE. SEE BYTE 02, BIT 01, THE CHAIN BIT, IN THE TABLE ENTRIES.

USE ENTRY NUMBER FROM TABLE TO SEE LOCATION TO DISPLAY.

ENTER ON THE CONSOLE:

- PRESS THE STOP KEY.
- PRESS THE SAR KEY.
- PRESS THE THREE (3) KEY.
- PRESS THE X KEY.
- PRESS THE X KEY.
- PRESS THE O KEY.
- 3XX0 = THE ENTRY NUMBER

- PRESS THE STORE KEY.
- PRESS MAIN STORAGE KEY.
- RECORD THE FOLLOWING:

BYTES 00/01 ARE IN DATA LAMPS.

- PRESS MAIN STORAGE KEY.

BYTES 02/03 ARE IN DATA LAMPS.

- PRESS MAIN STORAGE KEY.

BYTES 04/05 ARE IN DATA LAMPS.

- PRESS MAIN STORAGE KEY.

BYTES 06/07 ARE IN DATA LAMPS.

- CORRECT THE CHAIN BIT ON, WHEN IT MUST BE OFF.

GO TO PAGE 57, STEP 173,
ENTRY POINT MD.

TO DISPLAY THE CONFIGURATION ENTRY IN STORAGE:

TO DISPLAY ENTRY NUMBER XX	DISPLAY STORAGE LOCATIONS: FROM	TO
00	3000	300F
01	3010	301F
02	3020	302F
03	3030	303F
04	3040	304F
05	3050	305F
06	3060	306F
07	3070	307F
08	3080	308F
09	3090	309F
0A	30A0	30AF
0B	30B0	30BF
0C	30C0	30CF
0D	30D0	30DF
0E	30E0	30EF
0F	30F0	30FF
10	3100	310F
15	3150	315F
1A	31A0	31AF
20	3200	320F
XX	3XX0	3XXF

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MAP 3882-164

J
V
1
5
7

CONSOLE INPUT/OUTPUT

MAP 3882-165

PAPER ONLY

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|
486

THE RECORDED DATA LAMPS EQUAL 3849, BAD OR NO RD ID TO THE ALTERNATE CONSOLE.

- SEE THE NOTE TO THE RIGHT
 - SEE REGISTER 3 RECORDED BEFORE.
- REG 3 = AATT

TT = DEVICE TYPE
AA = DEVICE ADDRESS

THE DISKETTE HAS BEEN CONFIGURED TO INCLUDE AN ALTERNATE CONSOLE BUT THE I.D. WORD RECEIVED FROM ITS ADDRESS IS NOT THAT OF A SUPPORTED ALTERNATE CONSOLE -- OR A BAD CONDITION CODE WAS RETURNED TO THE READ I.D. COMMAND. SEE IF THE AATT FROM REGISTER 3 IS INSTALLED.

AN ALTERNATE CONSOLE IS:	MAP/ TYPE	AA TT
4973 PRINTER	6800	AA68
4974 PRINTER	6400	AA64
5200 PRINTERS	6A00	AA6A
MULTIFUNCTION 3101-7485-4975	E600	AAE6
3101 RPQ D02350	81F0	AA81
3101 ACCA SL	E800	AAE8
3101 ACCA ML	E900	AAE9
3101 FPMLC	EA00	AAEA
4978	4500	AA45
4979	4400	AA44
4980	F900	AAF9
7485 RPQ D02350	81FX	AA81
TTY ATTACHMENT %	4000	AA40
5251/5291	E400	AAE4

IS THE AATT FROM REGISTER 3 INSTALLED?

Y N

|
487

- SEE IF THE SYSTEM HAS A SUPPORTED ALTERNATE CONSOLE DEVICE AVAILABLE TO BE ASSIGNED.

IS A SUPPORTED ALTERNATE CONSOLE DEVICE AVAILABLE TO BE ASSIGNED?

Y N
| |
| |
| |
| |

1 1 1
6 6 6
6 6 6
K K K
H J K

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MAP 3882-165

K K K CONSOLE INPUT/OUTPUT
H J K
1 1 1 PAPER ONLY
6 6 6
5 5 5 PAGE 166 OF 183

| | |
| | 488
| | THE ALTERNATE CONSOLE MUST BE
| | ASSIGNED TO THE PROGRAMMER OR
| | MAINTENANCE CONSOLE.
| | GO TO PAGE 51, STEP 158,
| | ENTRY POINT AC.

| |
| 489
| THE ALTERNATE CONSOLE MUST BE
| ASSIGNED IN THE CONFIGURATION
| TABLE WITH THE CORRECT ADDRESS
| AND TYPE CODE OF THE AVAILABLE
| CONSOLE DEVICE.
| GO TO PAGE 51, STEP 158,
| ENTRY POINT AC.

|
490
THE SUPPORTED ALTERNATE CONSOLE
IS THE SUSPECT DEVICE.

- SEE THE MAP PROLOG SECTIONS FOR
THE SUSPECT ATTACHMENT OR
DEVICE:
 - SEE 0.0 - MAP SEQUENCE.
 - SEE 1.4 - PROGRAM COMMENTS.
 - SEE 4.0 - PROGRAMMER COMMENTS.
 - SEE 5.1 - CONFIGURATION
INFORMATION.
 - SEE MAP 3880, SECTION 08.00.00,
FOR CONFIGURATION INFORMATION.
- GO TO PAGE 173, STEP 500,
ENTRY POINT DP.

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J CONSOLE INPUT/OUTPUT
U
1 PAPER ONLY
5
7 PAGE 167 OF 183

|
491
THE RECORDED DATA LAMPS EQUAL
3844, ERROR IN READ ID.

- SEE REGISTER 3 RECORDED BEFORE.
REG 3 = AACC
 CC = CONDITION CODE
 AA = DEVICE ADDRESS
- SEE REGISTER 4 RECORDED BEFORE.
REG 4 = IDID
 = DEVICE ID FROM READ ID

ON A READ ID, THE CONDITION CODES
EXPECTED ARE:

- 00 = DEVICE NOT ATTACHED.
 - 07 = SATISFACTORY.
- THE DEVICE AT THE ADDRESS (AA) IN
R3 RETURNED A CONDITION CODE OF
(CC) FROM REGISTER 3.

NOTE
SOME SINGLE ATTACHMENT CARDS
ANSWER SEVERAL ADDRESSES:
FOR EXAMPLE, TIMER, 4982
SUBSYSTEM, MULTI-LINE CONTROLLER,
INTEGRATED DI DO.

IF ALL FAILING ADDRESSES ARE ON
ONE CARD, COUNT THEM AS A SINGLE
ERROR AT THE BASE ADDRESS.

IS THE ADDRESS RECORDED ABOVE
ASSIGNED TO A DEVICE ON THE
SYSTEM?

Y N
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| |
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| |
| |

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9 8
K K
L M

K CONSOLE INPUT/OUTPUT
M
1 PAPER ONLY
6
7 PAGE 168 OF 183

MAP 3882-168

|
492
SOME DEVICE IS ANSWERING TO TWO ADDRESSES.

- UNSEAT THE ATTACHMENT CARDS ONE AT A TIME.
- IPL EACH TIME A CARD IS UNSEATED.

NOTE: TO KEEP THE POLL SEQUENCE CORRECT START UNSEATING WITH THE CARDS THAT ARE FARTHER FROM THE PROCESSING UNIT.

WHEN THE FAILING CARD HAS BEEN IDENTIFIED, TERMINATE THE CONFIGURATION PROGRAM:

- ENTER ON THE CONSOLE:

(B) 5 (I) (I)
 5 = TERMINATE

- SEAT ALL THE UNSEATED CARDS.
- GO TO THE ENTRY MAP FOR THE FAILING DEVICE.

THERE ARE DEVICES AND SUBSYSTEMS THAT USE MORE THAN ONE ADDRESS. SEE THE DEVICE PROLOG, 0.0, 1.4 AND 4.0. THERE MAY BE SPECIAL INSTRUCTIONS FOR CONFIGURATION ERROR(S) AND OR A MACHINE CHECK.

IF THIS DOES NOT ISOLATE THE PROBLEM, GO TO MAP 0070, ENTRY POINT A

EACH TIME A CARD IS UNSEATED IT WILL GENERATE A 3841 HALT FOR THAT ADDRESS. ENTER '6' TO BYPASS THE HALTS THAT ARE NOT ASSOCIATED WITH THE PROBLEM.

- ENTER ON THE CONSOLE:

(B) 6 (I) (I)
 6 = RESUME

SEE MAP 0010, SECTION 07.01.00. PROGRAMMER CONSOLE.

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MAP 3882-168

J K CONSOLE INPUT/OUTPUT
T L
1 1 PAPER ONLY
5 6
7 7 PAGE 169 OF 183

MAP 3882-169

| |
| 493
| THIS DEVICE IS THE SUSPECT
| DEVICE.
|
| - SEE THE MAP PROLOG SECTIONS
| FOR THE SUSPECT ATTACHMENT OR
| DEVICE:
| - SEE 0.0 - MAP SEQUENCE.
| - SEE 1.4 - PROGRAM COMMENTS.
| - SEE 4.0 - PROGRAMMER
| COMMENTS.
| - SEE 5.1 - CONFIGURATION
| INFORMATION.
| - SEE MAP 3880, SECTION
| 08.00.00, FOR CONFIGURATION
| INFORMATION.
| GO TO PAGE 173, STEP 500,
| ENTRY POINT DP.

494
THE RECORDED DATA LAMPS EQUAL
3843, DEVICE TYPE VS READ ID
ERROR.

- SEE REGISTER 3 RECORDED BEFORE.
REG 3 = AAEE
 EE = TABLE ENTRY NUMBER
 AA = DEVICE ADDRESS

- SEE REGISTER 4 RECORDED BEFORE.
REG 4 = IDID
 = DEVICE ID FROM READ ID

DEVICE ID WORD AND DEVICE TYPE IN
THE ENTRY FROM REGISTER 3 ARE NOT
FOR THE SAME DEVICE.
CONFIGURATION TABLE ENTRY FROM
REGISTER 3 MUST BE CHANGED TO THE
CORRECT DEVICE TYPE OR DEVICE ID.
GO TO PAGE 57, STEP 173,
ENTRY POINT MD.

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MAP 3882-169

|
495
RECORDED DATA LAMPS EQUAL 3842,
ID MISMATCH.

- SEE RECORDED REGS 3 AND 4.
REG 3 = AAEE
 EE = TABLE ENTRY NUMBER
 AA = DEVICE ADDRESS
REG 4 = IDID FROM READ ID.
NOTE ENTRY NUMBER FROM REG 3.
USE ENTRY NUMBER FROM TABLE TO
SEE LOCATION TO DISPLAY.

ENTER ON THE CONSOLE:

- PRESS THE STOP KEY.
- PRESS THE SAR KEY.
- PRESS THE THREE (3) KEY.
- PRESS THE X KEY.
- PRESS THE X KEY.
- PRESS THE 0 KEY.
3XX0 = THE ENTRY NUMBER

- PRESS THE STORE KEY.
- PRESS MAIN STORAGE KEY.
- RECORD THE FOLLOWING:

BYTES 00/01 ARE IN DATA LAMPS.
- PRESS MAIN STORAGE KEY.
BYTES 02/03 ARE IN DATA LAMPS.
- PRESS MAIN STORAGE KEY.
BYTES 04/05 ARE IN DATA LAMPS.
- PRESS MAIN STORAGE KEY.
BYTES 06/07 ARE IN DATA LAMPS.
COMPARE ENTRY IN STORAGE AND
INFORMATION FROM REGS 3 AND 4.

IS ID IN R4 OK FOR ADDRESS IN R3?

Y N
| |
| |
| |
| |

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1 1
K K
N P

TO DISPLAY THE CONFIGURATION
ENTRY IN STORAGE:

+-----+-----+-----+		
TO DISPLAY ENTRY NUMBER	DISPLAY STORAGE LOCATIONS:	
XX	FROM	TO
+-----+-----+-----+		
00	3000	300F
01	3010	301F
02	3020	302F
03	3030	303F
04	3040	304F
05	3050	305F
06	3060	306F
07	3070	307F
08	3080	308F
09	3090	309F
0A	30A0	30AF
0B	30B0	30BF
0C	30C0	30CF
0D	30D0	30DF
0E	30E0	30EF
0F	30F0	30FF
10	3100	310F
15	3150	315F
1A	31A0	31AF
20	3200	320F
XX	3XX0	3XXF
+-----+-----+-----+		

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K K CONSOLE INPUT/OUTPUT
N P
1 1 PAPER ONLY
7 7
0 0 PAGE 171 OF 183

MAP 3882-171

| |
| 496
| THE DEVICE IS RETURNING THE
| WRONG ID.

| - SEE THE MAP PROLOG SECTIONS
| FOR THE SUSPECT ATTACHMENT OR
| DEVICE:
| - SEE 0.0 - MAP SEQUENCE.
| - SEE 1.4 - PROGRAM COMMENTS.
| - SEE 4.0 - PROGRAMMER
| COMMENTS.
| - SEE 5.1 - CONFIGURATION
| INFORMATION.
| - SEE MAP 3880, SECTION
| 08.00.00, FOR CONFIGURATION
| INFORMATION.
| GO TO PAGE 173, STEP 500,
| ENTRY POINT DP.

|
497
THE CONFIGURATION TABLE WAS WRONG
ON THE DISKETTE. THE
CONFIGURATION ENTRY MUST BE
CHANGED.
GO TO PAGE 57, STEP 173,
ENTRY POINT MD.

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MAP 3882-171

J CONSOLE INPUT/OUTPUT
Q
1 PAPER ONLY
5
6 PAGE 172 OF 183

|
498
THE RECORDED DATA LAMPS EQUAL
3841.
THE ERROR IS IN TABLE, NOT IN
HARDWARE.

SEE REGISTER 3 RECORDED BEFORE.
REG 3 = A A E E
 E E = TABLE ENTRY NUMBER
 A A = DEVICE ADDRESS

SEE REGISTER 4 RECORDED BEFORE.
REG 4 = I D I D
 = DEVICE ID FROM READ ID

A READ ID TO THE ADDRESS IN R3
RETURNED AN OIO CONDITION CODE OF
00
CONDITION CODE 00 = DEVICE NOT
ATTACHED.

VERIFY THAT A DEVICE IS JUMPERED
TO THAT ADDRESS (RIGHTMOST BYTE
IN R3 IS ENTRY NUMBER), AND USE
IT TO FIND THE ENTRY IN THE TABLE
IN 08.01.04. THE FIRST BYTE OF
ENTRY IS THE DEVICE ADDRESS. IT
MUST EQUAL THE LEFTMOST BYTE IN
R3. THE SECOND BYTE OF THE ENTRY
IS THE DEVICE TYPE CODE. USE IT
TO FIND THE DEVICE IN THE TABLE
AT 08.01.05.

DOES THIS SYSTEM HAVE A DEVICE AT
THE ADDRESS IN R3?

Y N
|
| 499
| THE ENTRY MUST BE DELETED FROM
| THE CONFIGURATION TABLE.
| GO TO PAGE 11, STEP 029,
| ENTRY POINT DE.
|

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K
Q

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MAP 3882-172

K CONSOLE INPUT/OUTPUT
Q
1 PAPER ONLY
7
2 PAGE 173 OF 183

MAP 3882-173

|
500
(ENTRY POINT DP)

- SEE THE PROCESSING UNIT MIM FOR
VOLTAGE TOLERANCES AND
SETTINGS.

- SEE THE NOTE TO THE RIGHT
- SEE MLD VOLUME 01, PROCESSING
UNIT OR EXPANSION MODULE.
- USE THE MULTIMETER.
- MEASURE ALL VOLTAGES AT THE
FAILING CARD SOCKET.

ARE ALL THE VOLTAGES O.K.?

Y N

| 501
| GO TO MAP 1470, ENTRY POINT A.

|
1
7
4
K
R

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MAP 3882-173

K CONSOLE INPUT/OUTPUT
R
1 PAPER ONLY
7
3 PAGE 174 OF 183

MAP 3882-174

|
502
- TERMINATE THE CONFIGURATION
 PROGRAM.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0500 (I) (I)
 5 = TERMINATE

THERE ARE DEVICES AND SUBSYSTEMS
THAT USE MORE THAN ONE ADDRESS.

- SEE THE DEVICE PROLOG, 0.0, 1.4
 AND 4.0.

THERE MAY BE SPECIAL INSTRUCTIONS
FOR CONFIGURATION ERROR(S) AND OR
A MACHINE CHECK.

- GO TO THE DEVICE ENTRY MAP FOR
 THE DEVICE AT THIS ADDRESS.
- SEE WHICH MAP YOU ARE TO RUN TO
 ISOLATE THE PROBLEM.

ARE YOU INSTRUCTED TO LOAD AND
RUN A MAP?
Y N

|
| 503
| - FOLLOW THE INSTRUCTIONS IN
| THE MAP.
| IF NO REPAIR,
| GO TO MAP 0070, ENTRY POINT A.

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K
S

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MAP 3882-174

K CONSOLE INPUT/OUTPUT
S
1 PAPER ONLY
7
4 PAGE 175 OF 183

MAP 3882-175

|
504

- ENTER ON THE CONSOLE:

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

- FOLLOW THE INSTRUCTIONS IN THE
MAP.
IF NO REPAIR,
GO TO MAP 0070, ENTRY POINT A.

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MAP 3882-175

J CONSOLE INPUT/OUTPUT
P
1 PAPER ONLY
5
6 PAGE 176 OF 183

MAP 3882-176

|
505
THE RECORDED DATA LAMPS EQUAL
3840, AN IN HARDWARE, NOT IN
TABLE ERROR.

SEE REGISTER 3 RECORDED BEFORE.
REG 3 = AAEE
 EE = TABLE ENTRY NUMBER
 AA = DEVICE ADDRESS

SEE REGISTER 4 RECORDED BEFORE.
REG 4 = IDID
 = DEVICE ID FROM READ ID

A DEVICE HAS BEEN ADDED TO THE
SYSTEM OR A SINGLE DEVICE IS
ANSWERING TO TWO ADDRESSES.

USE THE ID WORD IN R4, THE
ADDRESS IN R3, YOUR TABLE IN
SERVICE GUIDE 08.01.04, THE
DEVICE TABLE AT 08.01.05, AND A
PHYSICAL COUNT OF THE DEVICES OF
THIS TYPE TO DETERMINE IF A
DEVICE HAS BEEN ADDED TO THE
SYSTEM.

HAS A DEVICE BEEN ADDED TO THE
SYSTEM?

Y N

|
| 506
| A DEVICE IS ANSWERING TO TWO
| ADDRESSES.
| EXCHANGE THE FAILING ATTACHMENT
| CARD.
| - VERIFY THE REPAIR.

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MAP 3882-176

S K CONSOLE INPUT/OUTPUT
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7
| 6 PAGE 177 OF 183
|
| |
| 507
| A DEVICE HAS BEEN ADDED TO THE
| SYSTEM.
| AN ENTRY MUST BE ADDED TO THE
| CONFIGURATION TABLE.
| GO TO PAGE 60, STEP 185,
| ENTRY POINT AD.

MAP 3882-177

508
- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0100 (I) (I)
 01 = TERMINATE PROGRAM

DO THE DATA LAMPS EQUAL 3800 OR
3805?

Y N

|
| 509
| GO TO PAGE 158, STEP 470,
| ENTRY POINT EL.

510
THE CONFIGURATION PROGRAM IS
TERMINATED.
GO TO MAP 0020, ENTRY POINT A.

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MAP 3882-177

R CONSOLE INPUT/OUTPUT
1
0 PAPER ONLY

MAP 3882-178

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|
|

511
A TWO CHANNEL SWITCH IS CABLED TO
THE SYSTEM.

- ENTER ON THE CONSOLE:

(B) 1F (I)
(B) 0400 (I) (I)
 04 = BYPASS TWO CHANNEL
 SWITCH ERROR(S)

DO THE DATA LAMPS EQUAL 3800 OR
3805?

Y N

| 512
| THERE ARE CONFIGURATION
| ERROR(S).
| GO TO PAGE 11, STEP 029,
| ENTRY POINT DE.
|

513
THERE ARE NO TWO CHANNEL SWITCH
CONFIGURATION ERRORS. THE
CONFIGURATION PROGRAM IS
TERMINATED.

- SEE IF YOU WANT TO USE THE
CONFIGURATION PROGRAM.

DO YOU WANT TO USE THE
CONFIGURATION PROGRAM?

Y N

| 514
| GO TO MAP 0020, ENTRY POINT A.
|
|
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|
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ECA23101 PECA10990

MAP 3882-178

2 9 U

1 PAPER ONLY

| | 7

| | 8 PAGE 179 OF 183

| |

| |

| | 515

| | YOU WANT TO USE THE
| | CONFIGURATION PROGRAM.

| | - ENTER ON THE CONSOLE:

| | -----
| | (B) B (I)
| | (B) 38F0 (I) (I)
| | 38F0 = CONFIGURATION
| | PROGRAM

| | GO TO STEP 517,
| | ENTRY POINT FE.

| | 516

| | - ENTER ON THE CONSOLE:

| | -----
| | (B) 1F (I)
| | (B) 0300 (I) (I)
| | 03 = OPTION TABLE

| | GO TO PAGE 20, STEP 056,
| | ENTRY POINT OT.

| | 517

| | (ENTRY POINT FE)

| | - SEE THE DATA LAMPS.

3800 IN THE DATA LAMPS IS:
READY ENTER.
3805 IN THE DATA LAMPS IS:
PROGRAM TERMINATED.

DO THE DATA LAMPS EQUAL 3800 OR
3805?

Y N

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K K L L CONSOLE INPUT/OUTPUT
Y Z A B
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8 8 8 8
0 0 0 0 PAGE 181 OF 183

MAP 3882-181

| | | |
| | | 522
| | | - ENTER ON THE CONSOLE:
| | | -----
| | | - PRESS THE LOAD KEY
| | | - WAIT ONE MINUTE.
| | |
| | | GO TO PAGE 179,
| | | STEP 517,
| | | ENTRY POINT FE.
| | |
| | | 523
| | | - ENTER ON THE CONSOLE:
| | | -----
| | | (B) 6 (I) (I)
| | | 6 = RESUME
| | |
| | | GO TO PAGE 179, STEP 517,
| | | ENTRY POINT FE.
| | |
| | | 524
| | | THE OPTION TABLE IS AVAILABLE
| | | TO YOU.
| | | GO TO PAGE 20, STEP 056,
| | | ENTRY POINT OT.
| | |
| | | 525
| | | - ENTER ON THE CONSOLE:
| | | -----
| | | (B) 6 (I) (I)
| | | 6 = RESUME
| | |
| | | GO TO PAGE 179, STEP 517,
| | | ENTRY POINT FE.

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MAP 3882-181

K K CONSOLE INPUT/OUTPUT
V X
1 1 PAPER ONLY
7 8
9 0 PAGE 182 OF 183

MAP 3882-182

| |
| 526
- ENTER ON THE CONSOLE:
(B) 1F (I)
(B) 0300 (I) (I)
03 = OPTION TABLE

| GO TO PAGE 20, STEP 056,
| ENTRY POINT OT.

| 527
| THE CONFIGURATION PROGRAM IS NOT
| LOADED. TO LOAD THE
| CONFIGURATION PROGRAM:

- ENTER ON THE CONSOLE:

(B) B (I)
(B) 38F0 (I) (I)
 38F0 = CONFIGURATION
 PROGRAM

GO TO PAGE 179, STEP 517,
ENTRY POINT FE.

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MAP 3882-182

CONSOLE INPUT/OUTPUT

MAP 3882-183

PAPER ONLY

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528

(ENTRY POINT YY)

SEE THE DATA LAMPS

DO THE DATA LAMPS EQUAL 3800 OR
3805?

Y N

|

| 529

| GO TO PAGE 64, STEP 199,

| ENTRY POINT ST.

|

530

- PRESS THE LOAD KEY.

- WAIT ONE MINUTE.

GO TO MAP 3881, ENTRY POINT A.

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MAP 3882-183