

PAPER ONLY

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001

The Table Of Contents below can be used as a quick entry into the SERIES/1 Diagnostic package. If you need more information, go to and answer the question on PAGE FOUR (04), ENTRY POINT A.

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ALTERNATE CONSOLE 3101 SWITCH SETTINGS	08	AC
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HOW TO TEST A DEVICE	16	DV
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(Step 001 continues)

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QUICK REFERENCE LIST FOR THE C S R	MAP/MIM	ENTRY POINT
ALTERNATE CONSOLE - TO CHANGE IN THE TABLE	3881	A
C E CONSOLE INSTALLATION	495X MIM	2.0
CONFIGURATION PROGRAM (38F0)	388X	A
CONFIGURATION ENTRY - SEE DEVICE PROLOG 5.0	XX00	5.0
CONFIGURATION USING A PROGRAMMER CONSOLE ONLY	3882	A
CONFIGURATION USING A DISPLAY OR PRINTER OUTPUT	3881	A
DIAGNOSTIC SERVICE GUIDE	0010	
ERROR LOG 4954/56	0019	A
GLOSSARY OF CSR WORDS	0011	
INTERMITTENT STRATEGY	0072	
MAINTENANCE PROGRAM LOAD DEVICE	495X MIM	2.0
PLUG MAP	VOLUME 1	
PROGRAM HALTS	0013	
PROGRAMMER OR C E CONSOLE PROBLEM	1071	A
PROGRAMMER OR C E CONSOLE PROBLEM	2071	A
PROLOGS	VOLUME 2	BOOK 1

(Step 001 continues)

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(Step 001 continued)

(ENTRY POINT MP)

This is a list of MAP NUMBERS/DEVICE CODES in numerical order.
It is continued on the next page.

MAP NUMBER/	ATTACHMENT/FEATURE/DEVICE DESCRIPTION
00XX	SYSTEM ENTRY
01XX	4964 DISKETTE IPL PROBLEM
02XX	4966 DISKETTE IPL PROBLEM
03XX	4952/4/6C 4965 DISKETTE UNIT IPL PROBLEM
04XX	4952/4/6D 4965D DISKETTE UNIT IPL PROBLEM
107X	PROGRAMMER OR C E CONSOLE
20XX	495X PROCESSING UNIT
30XX	INITIALIZER DISKETTES CONTROL PROGRAMS
34XX	SYSTEM TEST/ERAP PROGRAMS
36XX	CUSTOMER TEST PROGRAM
37XX	INTEGRAL TIMER
38XX	DCP/CONFIGURATION/UTILITY PROGRAMS
3AXX	ATTACHMENT STORAGE SYSTEM PROGRAMS
3CXX	MDI SUPERVISOR
3DXX	FLOATING POINT
3EXX	TWO CHANNEL SWITCH (7900)
40XX	TTY ATTACHMENT (7850)
41XX	S/1 LOCAL COMMUNICATION CONTROLLER (1400)
44XX	4979 DISPLAY
45XX	4978 DISPLAY
48XX	4964 DISKETTE
4AXX	4966 DISKETTE
4BXX	4952C/4954C/4965 DISKETTE
4DXX	4952D/4954D/4956D/4965D DISKETTE
50XX	TIMERS (7840)
58XX	4969 MAGNETIC TAPE UNIT
59XX	4968 MAGNETIC TAPE UNIT
64XX	4974 PRINTER
68XX	4973 PRINTER
6AXX	5200 SERIES PRINTER

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(Step 001 continued)

MAP NUMBER	ATTACHMENT/FEATURE/DEVICE DESCRIPTION
78XX	4962 DISK
7AXX	4963 DISK
7BXX	4967 DISK
7CXX	4952D/4954D/4956D/4965D DISK/DISKETTE
A0XX	INTEGRATED DI/DO (1560)
A3XX	OTHER EQUIPMENT MANUFACTURE - OEM - (5430)
A4XX	4982 SENSOR I/O
A8XX	ANALOG IN (1060)
A9XX	ANALOG OUT (1065)
B0XX	DIGITAL IN (3525/3532)
B4XX	DIGITAL OUT (3535)
D8XX	370 CHANNEL ATTACHMENT (1200)
E0XX	4987 PCS CONTROLLER (1300)
E1XX	4987 TP FEATURE (47XX)
E4XX	5251 INFORMATION DISPLAY SYSTEM ATT. (1210)
E6XX	MULTIFUNCTION ATTACHMENT (1310)
E8XX	ACCA SINGLE LINE ATTACHMENT (1610)
E9XX	ACCA MULTI LINE ATTACHMENT (2091/2092)
EAXX	FPMLC (2095 - 2096)
EBXX	TELEPHONE COMMUNICATION (7580/7581)
F0XX	BSCA SINGLE LINE ATTACHMENT (2074/2075)
F1XX	BSCA MULTI LINE ATTACHMENT (2093/2094)
F8XX	SDLC ATTACHMENT (2090)
F9XX	MULTIDROP WORK STATION ATTACHMENT
FCXX	SCSLC SYNCHRONOUS COMMUNICATION (2080)

(ENTRY POINT A)

Are you familiar with the S/1 MAP package?

Y N

002

GO TO MAP 0020, ENTRY POINT A.

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5
A

MAP 0000-4

A
4

C S R QUICK ENTRY MAP

MAP 0000-5

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003

Is this an INSTALLATION?

Y N

004

If you want to run a UTILITY,
COMMUNICATIONS DOWNLINE TEST or
the CUSTOMER/SYSTEM TEST:
- Answer the question 'NO'.

If you want information about a
SERIES/1 ALTERNATE CONSOLE,
including how to CHANGE the
ASSIGNED CONSOLE:
- answer the question 'NO'.

Is this a SERVICE CALL?

Y N

005

- 1. CUSTOMER VERIFY TEST.
- 2. SYSTEM TEST

Do you want to run one of
these tests?

Y N

006

- 4962 DISK 4964 DISK
- 4963 DISK 4969 TAPE

Do you want to run one of
these UTILITIES?

Y N

2 1 1 1
3 3 2 2 6
B C D E F

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MAP 0000-5

F
5

C S R QUICK ENTRY MAP

MAP 0000-6

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007

ACCA

SDLC

BSCA

OPERATOR SELF TEST

BSCA/3270

Do you want to run one of these
COMMUNICATION DOWN LINE TESTS?

Y N

008

- See if you want information
about a SERIES/1 ALTERNATE
CONSOLE, including how to
CHANGE the ASSIGNED CONSOLE
using STOP 1950:

Do you want console information
as noted?

Y N

009

If you want to CHANGE the
ALTERNATE CONSOLE ASSIGNED in
the CONFIGURATION TABLE:

If using a PROGRAMMER OR C E
CONSOLE as BOTH input and
output, GO TO MAP 3882, ENTRY
POINT A.

all others, GO TO MAP 3881,
ENTRY POINT A.

1
1 7
G H

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MAP 0000-6

H
6

C S R QUICK ENTRY MAP

MAP 0000-7

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010

(ENTRY POINT AC)

To assign a new Alternate Console using STOP 1950, note the console Device Address and Type you want to use as a TEMPORARY console.

- Press STOP key.
- Press STOP ON ADDRESS key.
- Press ONE (1) key.
- Press NINE (9) key.
- Press FIVE (5) key.
- Press ZERO (0) key.
- Press STORE key.
- Press STOP ON ADDRESS key.
- Press STOP ON ADDRESS key.
- Press LOAD key.
- Wait for DATA LEDS to = 1950 with STOP led ON. Press START key several times, if needed.
- Display Register Zero (0).

- Enter new Alternate Console Device Address and Type (AATT)

- Go to correct ASTERISK (*) as follows:

If 4975: Display REG 1 AND GO TO *

If 525X: Display REG 1 AND GO TO **

If 7485: Display REG 1 AND GO TO ***

If 5200: Display REG 1 AND GO TO ****

If 4980: Display REG 1 AND GO TO *****

If NONE of the above: GO TO *****

CONTINUED ON THE NEXT PAGE.
(Step 010 continues)

+-----+-----+-----+		
	ALTERNATE CONSOLE TYPES	DATT
+-----+-----+-----+		
	4973 PRINTER	DA68
	4974 PRINTER	DA64
	5200 PRINTERS ****	DA6A
+-----+-----+-----+		
	3101 MULTIFUNCTION	DAE6
	3101 - 4975* - 7485***	
	3101 DISPLAY RPQ D02350	DA81
	3101 DISPLAY (ACCA SL)	DAE8
	3101 DISPLAY (ACCA ML)	DAE9
	3101 DISPLAY (FPMLC)	DAEA
	3101 DISPLAY (TTY)	DA40
	4978 DISPLAY	DA45
	4979 DISPLAY	DA44
	4980 DISPLAY	DAF9
	5251 DISPLAY **	DAE4
	5291 DISPLAY **	DAE4
+-----+-----+-----+		
	5291 DISPLAY **	DAE4
+-----+-----+-----+		
	TTY TTY ATTACHMENT	DA40
+-----+-----+-----+		

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(Step 010 continued)

* IF A 4975 IS THE CONSOLE:

- Press the ZERO key.
- Press the ZERO key.
- Press the ZERO key
- Press X key. X = 3 = MOD 01L
 4 = MOD 02L
- NOW GO TO ***** BELOW.

** IF A 525X IS THE CONSOLE:

- Press the ZERO key.
- Press the ZERO key.
- Press the Y key.
 Y = 0 - 3 Cable Address
- Press the Z key.
 Z = 0 - 6 Station Address
- NOW GO TO ***** BELOW.

*** IF A 7485 IS THE CONSOLE:

- Press the ZERO key.
- Press the ZERO key.
- Press the ZERO key.
- Press X key. X = 1 = mod 53
 2 = MOD 63
- NOW GO TO ***** BELOW.

**** IF A 5200 PRINTER IS THE CONSOLE:

- Press the ZERO key.
- Press the ZERO key.
- Press the ZERO key.
- Press X key
 Where X = PAAA
 P = Port Address 0 - 1
 AAA = Printer Address 0 - 6
- NOW GO TO ***** BELOW.

**** IF A 4980 DISPLAY IS THE CONSOLE:

- Press Z key.
 - Press Y key.
 - Press X key.
- (Step 010 continues)

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(Step 010 continued)

- Press X key.
- Z = Port Address 0 - 1
- Y = Line Speed 0 = 100K
 1 = 250K
 2 = 500K
- XX = Terminal Address
- NOW GO TO ***** BELOW.

- Press the STORE key.
- Press the STOP ON ADDRESS KEY.
- Press the START key.

3101 Alternate Console Switch settings are on the following pages.
IF A 3101 DEVICE IS ASSIGNED AS THE ALTERNATE CONSOLE:

- FOLLOW THE DIRECTIONS FOR THE CONNECTION YOU ARE USING.
- ENSURE THE CABLE(S) ARE CORRECT.
- 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 MOVED SWITCHES TO ORIGINAL POSITION.

BR = BAUD RATE CPN = CABLE P/N X = SWITCH POSITION

```

+-----+
|                RPQ D02350                |
| 12345678 12345678 12345678 12345678 |
|  X X  X  X      X X      X  XX  X  |
| X X      X      XX  XX  |
| BR = 9600      CPN = 6844552 |
+-----+
    
```

```

+-----+
|                ACCA SL OR ML                |
| 12345678 12345678 12345678 12345678 |
|  XXX  X      X X      XXX  XXX  |
| X      XX      X  X  |
| BR = 2400      CPN = 1632211 |
+-----+
    
```

IF "LINE CHECK 2"
MESSAGE, ENSURE DTR
JUMPER IS INSTALLED.

(Step 010 continues)

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(Step 010 continued)

```

+-----+
|          FPMLC USING RS232C          |
| 12345678 12345678 12345678 12345678 |
|  XXX  X   X           X X       X  XX  X |
|  X                X                XX  XX |
| BR = 9600   CPN = 1632211/5640736   |
+-----+

```

ENSURE DTR, EIA AND HI SPEED JUMPERS ARE INSTALLED.

```

+-----+
|          FPMLC, NOT RS232C          |
| 12345678 12345678 12345678 12345678 |
|  X X  X   X           X X       X  XX  X |
|  X X                X                XX  XX |
| BR = 9600           CPN = 6839455     |
+-----+

```

```

+-----+
|          1310 MULTIFUNCTION          |
| 12345678 12345678 12345678 12345678 |
|  X X  X   X           X X       X  XX  X |
|  X X                X                XX  XX |
| BR = 9600           CPN = 6844552     |
+-----+

```

```

+-----+
|          TTY - CURRENT INTERFACE     |
| 12345678 12345678 12345678 12345678 |
|   X  X           X XX              |
| XXX      X       X       ***** |
| BR = 9600           CPN = 6839455     |
+-----+

```

```

+-----+
|          TTY - EIA INTERFACE         |
| 12345678 12345678 12345678 12345678 |
|   X  X           X XX              |

```

(Step 010 continues)

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G
6

C S R QUICK ENTRY MAP

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(Step 010 continued)

XX	X	X	*****
BR = 9600		CPN = 1632924	

* = 3101 BAUD RATE MUST MATCH THE TTY
ATTACHMENT CARD. SEE 3101 SWITCH COVER
AND LOGICS SD100

011

(ENTRY POINT TP)

This is a list of COMMUNICATIONS UTILITIES/DOWNLINE Tests.

PROGRAM ID	DESCRIPTION OF COMMUNICATIONS DOWN LINE OR UTILITIES TESTS.	ON DISKETTE	SEE MAP:
3CEF	OPERATOR SELF TEST	1635003	3CEF
6A45	5200 PRINTER EXERCISER	7839056	6A45
E6E5	MFA EXERCISER	6031186	E6E5
E8E5	ACCA REQUESTOR/RESPONDER	1635001	E8xx
FOE5	BSCA REQUESTOR/RESPONDER	1635001	FOe5
FOE6	BSCA 3270 REQUESTOR/RESPONDER	1635001	FOE6
F8E5	SDLC DOWNLINE TEST	1635001	F8E5

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MAP 0000-11

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012

(ENTRY POINT UT)

THIS IS A LIST OF UTILITIES
THE PROLOG CONTAINS DIRECTIONS TO RUN THE UTILITY.
IF NOT IN THE PROLOG, SEE THE MAP.

PROGRAM ID	DESCRIPTION	IS ON DISKETTE	PROLOG	MAP
4DF8	ERROR LOG DUMP	6235385	4D00	
58F0	4969 MAGNETIC TAPE	6838871	5800	
59F0	4968 MAGNETIC TAPE	6235256	5900	
7869	4962 DISK	1635278		7869
78F0	4962 DISK	1635001		78F0
7A69	4963 DISK UTILITY	6826999	7A00	7869
7AF9	4963 DISK UTILITY	6826999	7A00	7AF9
7AFF	4963 FIX MAP	6826999	7A00	7AFF
7BF8	ERROR LOG DUMP	4750154	7B00	
7BF9	GENERAL UTILITY	4750154	7B00	
7CF8	ERROR LOG DUMPY	XXXXXXXX	7C00	
7CF9	GENERAL UTILITY	XXXXXXXX	7C00	
38F0	CONFIGURATION	1635001		388X
38F9	UTILITY	1635001		0014

013

(ENTRY POINT CV)

This lists the programs on the SYSTEM TEST diskette.

PROGRAM ID	DESCRIPTION OF PROGRAM	IS ON DISKETTE	SEE MAP:
3400	SYSTEM TEST	1635003	0016
3600	CUSTOMER TEST	1635003	0016
34E1	4954 ERROR LOG	1635003	0019
34E1	4956 ERROR LOG	1635003	0019
34E0	ERAP	1635003	0018
3CEF	OPERATOR SELF TEST	1635003	0016

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MAP 0000-12

C
5

C S R QUICK ENTRY MAP

MAP 0000-13

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014

(ENTRY POINT SC)

Is this the first time on this
call?

Y N

015

(ENTRY POINT EL)

This is an INTERMITTENT or DIFFICULT problem.
If the system, attachment or device has DYNAMIC ERROR LOGS:

- Do NOT power off the system, attachment or device.

ERROR LOGGING IS ON:

-
- 4952 MOD D DISK/DISKETTE ATTACHMENT/DEVICE
- 4954 PROCESSOR.
- 4954 MOD D DISK/DISKETTE ATTACHMENT/DEVICE
- 4956 PROCESSOR.
- 4956 MOD D DISK/DISKETTE ATTACHMENT/DEVICE
- 4965 MOD D DISK/DISKETTE ATTACHMENT/DEVICE
- 4967 DISK
- 4968 TAPE.

GO TO MAP 0019, ENTRY POINT A.

016

If all the system feature(s)
and/or device(s) can power on:

- Answer the question 'NO'.

Do you want to diagnose a power
problem?

Y N

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

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3 4

J K

MAP 0000-13

017
 If the PROCESSING UNIT powers on,
 but data leds are NOT correct:

- Answer the question 'YES'.

- POWER THE PROCESSING UNIT ON. THESE DIAGNOSTICS RUN: ROS - LEDS - STORAGE					
495X UNIT	DATA LEDS	STOP LED	LEVEL 0 LED	POWER LED	OTHER LEDS
4952	FFFF	ON	ON	ON	OFF
4953	FFFF	ON	ON	ON	OFF
495X	FFFF	ON	OFF	ON	OFF
THE CONSOLE IS SILENT (NO SOUND).					

Do you want to diagnose a
 MICROCODE problem?

Y N

018

Do you want to diagnose a
 Diskette IPL problem?

Y N

019

Do you want PSW information?

Y N

2 1 1 1
 1 9 8 5
 L M N P

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 MAP 0000-14

1
4

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|020
(ENTRY POINT DV)

These directions assume the following:

-
1. The system POWERS ON correctly.
 2. The CORRECT Diagnostic diskette is installed in the LOAD device.
 3. The switches are CORRECT for IPL.
 4. An ALTERNATE CONSOLE is available and working CORRECTLY.

- Press the LOAD KEY.
- Wait for the RDY ENTER Message (LEDS = 3800).

There is a list of MACHINE TYPES/FEATURES on the following pages.
Use the lists to select the DEVICE/FEATURE to test, if applicable.

TO RUN AUTO MODE:

USING ALTERNATE CONSOLE		PROGRAMMER (CE) CONSOLE
2	ENTER OR RETURN	(B) 2 (I) (I)
A	ENTER OR RETURN	(B) A (I) (I)

TO RUN MANUAL MODE:

IF IN "AUTO" MODE, ENTER "3" AS FOLLOWS. IF NOT, SKIP THE LINE

3	ENTER OR RETURN (IF IN AUTO MODE)	(B) 3 (I) (I)
BXXXX	ENTER OR RETURN (IF IN MANUAL MODE)	(B) B (I)
XXXX = MAP TO RUN.		(B) XXXX (I) (I)

TO LOOP ON A MAP:

CXXXX	ENTER OR RETURN	(B) C (I) (I)
D0080	ENTER OR RETURN	(B) XXXX (I) (I)
A	ENTER OR RETURN	(B) 1D (I)
		(B) 0080 (I) (I)
XXXX = DIAGNOSTIC TO LOOP		(B) A (I) (I)

TO STOP THE LOOP:

9	ENTER OR RETURN	(B) 9 (I) (I)
---	-----------------	---------------

(Step 020 continues)

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MAP 0000-15

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(Step 020 continued)

(ENTRY POINT MT)

This is a list of MACHINE TYPES in numerical order.
On the following page is a list of FEATURES in numerical order.

DEVICE TYPE	LOGIC PAGE	MAP PROGRAM PROLOG	DISKETTE PART NUMBER	ATTACHMENT/FEATURE/DEVICE DESCRIPTION
POWER	YXXXX	1470	N/A	POWER SUPPLY PROBLEMS
CONSOLE	PAXXX	2070	N/A	PROGRAMMER/C E CONSOLE
495X	AXXXX	2000	1635001*	PROCESSING UNIT/STORAGE
495XD	SF800	7C00	6235385	495X = 52D/54D/56D
4962	SF300	7800	1635278	4962 DISK
4963	SF500	7A00	6826999	4963 DISK
4964	SF100	4800	1635278	4964 DISKETTE
4965	SF200	4B00	8529126	4965 DISKETTE 495XC
4965D	SF800	4D00	6235385	4965D DISK/DISKETTE 495XD
4966	SF600	4A00	6838000	4966 DISKETTE
4967	SF700	7B00	4750154	4967 DISK
4968	ST800	5900	6235256	4968 MAGNETIC TAPE UNIT
4969	ST300	5800	6838871	4969 MAGNETIC TAPE UNIT
4973	SP300	6800	1635278	PRINTER
4974	SP090	6400	1635278	PRINTER
4978	SD800	4500	1635278	4978 DISPLAY
4979	SD300	4400	1635278	4979 DISPLAY
4982	SS300	A400	1635279	SENSOR I/O
4987	SC500	E000	4414981	4987 TP ATTACHMENT
4987	SC501	E100	4414981	4987 TP FEATURE

* USE THIS DISKETTE TO IPL.

(Step 020 continues)

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(Step 020 continued)

(ENTRY POINT FT)

This is a list of FEATURES in numerical order.

FEATURE NUMBER	LOGIC PAGE	MAP PROGRAM PROLOG	DISKETTE PART NUMBER	ATTACHMENT/FEATURE/DEVICE DESCRIPTION
1060	SS350	A800	1635279	ANALOG IN
1065	SS430	A900	1635279	ANALOG OUT
1200	SW250	D800	1635278	370 CHANNEL ATTACHMENT
1210	SD400	E400	1635002	525x IDSA INFO. DISP. SYS. ATT.
1250	SC325	F900	8692599	MULTIDROP WORK STATION
1310	SC425	E600	6031186	1310 MULTIFUNCTION CARD
1400	SC750	4100	4499029	1400 LOCAL COMMUNICATION CONTROL
1560	SS100	A000	1635002	INTEGRATED DI/DO
1610	SC100	E800	1635002	ACCA SINGLE LINE
2074	SC300	F000	1635002	BSCA SINGLE LINE
2080	SC680	FC00	4499015	SYNCHRONOUS COMMUNICATION SCSLC
2090	SC600	F800	1635002	SDLC
2091	SC150	E900	1635002	ACCA MULTI LINE
2093	SC400	F100	1635002	BSCA MULTI LINE
2095	SC450	EA00	1635002	FPMLC
3101	SC461	81FO	6842559	3101 DISPLAY (RPQ 02350)
3525	SS450	B000	1635279	DIGITAL IN (NON ISOLATED)
3532	SS450	B000	1635279	DIGITAL IN (ISOLATED)
3535	SS490	B400	1635279	DIGITAL OUT
3920	NONE	3D00	1635001*	FLOATING POINT
5430	SR100	A300	1635002	OTHER EQUIPMENT MANUFACTURE OEM
5640	SP400	6A00	7839056	5200 SERIES PRINTER ATTACHMENT
7840	ST100	5000	1635001*	TIMER
7850	SD100	4000	1635278	TTY ATTACHMENT
7880	SC200	EB00	4468533	TELEPHONE COMMUNICATION
7900	SW100	3E00	1635001*	TWO CHANNEL SWITCH
RPQ	8XXX OR 9XXX	RPQ		SEE THE RPQ PROLOG SECTION 0.0
XXXX	XXXXX	XXXX	XXXXXXXX	SEE THE NEW FEATURE PROLOG 0.0

* USE THIS DISKETTE TO IPL.

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MAP 0000-17

N
1
4
|
|
|

021
(ENTRY POINT PS)

PROCESSOR STATUS WORD (PSW)
To display the PSW:
- Press the STOP key.
- Press the PSW key.

GROUP MEANING	BIT	DESCRIPTION OR MEANING
	ON	OF EACH BIT IN THE PSW.
PROGRAM CHECK	00	SPECIFICATION CHECK
	01	NOT VALID STORAGE ADDRESS
	02	PRIVILEGE VIOLATE
	03	PROTECT CHECK
	04	NOT VALID FUNCTION
SOFT EXCEPTION	05	FLOATING POINT EXCEPTION
	06	STACK EXCEPTION
	07	RESERVED
MACHINE CHECK	08	STORAGE PARITY CHECK
	09	RESERVED
	10	CONTROL CHECK
	11	I/O CHECK
STATUS FLAGS	12	SEQUENCE INDICATOR
	13	AUTO IPL
	14	TRANSLATOR ENABLED
	15	POWER THERMAL WARNING

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MAP 0000-18

M
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C S R QUICK ENTRY MAP

MAP 0000-19

PAPER ONLY

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022
(ENTRY POINT IP)

IPL STOP	DESCRIPTION	IPL STOP	DISKETTE STOP DESCRIPTION
0025	POSSIBLE POLL PROBLEM	0006	PROCESSOR TEST ERROR.
00E0	POSSIBLE POLL PROBLEM	03EA	PROCESSOR TEST ERROR.
00E5	SAME AS ABOVE.	0416	PROCESSOR TEST ERROR.
006A	NO IPL DISKETTE USED.		
EEEE	(FLASHING) SAME AS ABOVE.		
2070	LOST INTERRUPTS FROM		
2071	THE IPL SOURCE		
	INTERRUPT DESCRIPTION		
0232 %	MACHINE CHECK	0A6C \$	INITIAL IPL INTERRUPT
0234 %	PROGRAM CHECK	0AB0 #	OIO READ DEVICE ID ERROR.
0236 %	SUPERVISOR CALL	0AD2 %	IPL READ DEVICE ID ERROR.
0238 %	POWER THERMAL WARNING		RECEIVE ID AT ADDRESS 026E
023A %	TRACE INTERRUPT	0B06 #	OIO PREPARE INSTRUCTION
023C %	SOFT EXCEPTION	0B6A #	OIO RECALIBRATE INSTRUCTION
023E %	CLOCK INTERRUPT	0B74	DDB ADDRESS WRONG IN REG 7.
0240 %	CLASS INTERRUPT NOT KNOWN	0B84 #	OIO SEEK INSTRUCTION
0260	NOT EXPECT INTER, NOT IPL	0B96 #	READ SECTOR ID INSTRUCTION
0330+\$	INTERRUPT. RETRY COUNT =	0BE4&*	RD SECTOR ID IPL DATA WRONG
	0, CCSW BUFFER AT X0240.	0B24#@*	OIO READ DIAGNOSE INSTRUCT.
0338	NOT EXPECTED IPL INTERRUPT	0B36 @	PAGE 0 CHECKSUM DIAG ERROR
0346	INTERRUPT DA IN R7 WRONG.	0B46 @	PAGE 1 CHECKSUM DIAG ERROR
037E #	OIO RECALIBRATE INSTRUCT.	0B4E @	DIAG DATA BYTE 11 NOT 00.
0392 #	OIO SEEK/READ INSTRUCTION	0B5A @	DIAG DATA WORD 6 NOT X6E00.
\$	EXPECTED CONDITION CODE 03	*	DIAGNOSTIC BUFFER AT X0D00.
#	EXPECTED CONDITION CODE 07	+	4964 = 2 WORDS 4966 = 13 WORDS
%	LSB BUFFER AT ADDRESS X0240	&	4964 = 2 WORDS 4966 = 4 WORDS
@	4966 ONLY. RESIDUAL STATUS BUFFER AT X3100.		

** THE ACTION TO TAKE IS ON THE NEXT PAGE **

(Step 022 continues)

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MAP 0000-19

PAPER ONLY

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(Step 022 continued)

- GO TO THE IPL MAP. IF NO REPAIR:
- GO TO THE IPL ATTACHMENT/DEVICE PROLOG.

IPL MAP	DISKETTE UNIT	PROLOG
0170	4962 MODEL 2(F)/4/A	4800
0170	4964	4800
0370	4965	4800
0270	4966	4A00
0470	495X MOD C	4800
0470	495X MOD D	4800

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MAP 0000-20

L
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4

C S R QUICK ENTRY MAP

MAP 0000-21

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023
(ENTRY POINT MC)

The PROCESSING UNIT/STORAGE diagnostic is 2000. Use it to test a suspect processing unit/storage problem. If the customer has a STORAGE PARITY problem, DO NOT POWER THE SYSTEM OFF. Use the CUSTOMER VERIFY PROGRAM on diskette 1635003 to isolate it. Normal storage problems can be analyzed using basic diskette P/N 1635001. If the STORAGE problem is INTERMITTENT and on the system, the CVP diskette can be used.

PROCESSING UNIT STOPS	THE PROBLEM IS:	GO TO MAP 2070 ENTRY POINT:
0025 0026	POLL OPEN	A
003X 004X 005X 006X 007X	PROCESSING UNIT	PR
0085 008a	STORAGE < 512K	PR
0087 0088 0089	PROCESSING UNIT	PR
008B 008C	513K STORAGE TO 1,000K STORAGE	PR PR
009X 00CX 00EX 00FX	PROCESSING UNIT FLOATING POINT	PR FP

Is there a STORAGE problem?

Y N

024

GO TO PAGE 12, STEP 013,
ENTRY POINT CV.

2
2
Q

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MAP 0000-21

Q
2
1

C S R QUICK ENTRY MAP

MAP 0000-22

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025
(ENTRY POINT ST)

PLUG 512K CARD CLOSEST TO PROCESSOR											4956 MOD B - C - D		
											4956 MOD B - C - D		
											4956 MOD B - C - D		
											4955 MOD F		
											4955 MOD E		
4952 MOD A,B,C			4953 MOD C,D			4955 MOD C,D							
4953 MOD A - B, 4955 MOD A - B													
STORAGE ADDRESS		K SIZE		BLOCK					512				
4952/53/54/56									and				
FROM	TO	FROM	TO	SIZE				256	512	256			
INNER STORAGE													
0000	TO 3FFF	000K	- 016K	1	1	1	1	1	1	1			
4000	TO 7FFF	017K	- 032K	2	2	1	1	1	1	1			
8000	TO BFFF	033K	- 048K	3	3	2	1	1	1	1			
C000	TO FFFF	049K	- 064K	4	4	2	1	1	1	1			
OUTER STORAGE													
10000	TO 13FFF	065K	- 080K	1	5	3	2	1	1	1			
14000	TO 17FFF	081K	- 096K	2	6	3	2	1	1	1			
18000	TO 1BFFF	097K	- 112K	3	7	4	2	1	1	1			
1C000	TO 1FFFF	113K	- 128K	4	8	4	2	1	1	1			
20000	TO 2FFFF	129K	- 192K	5-8	*	*	3	2	1	1			
30000	TO 3FFFF	193K	- 256K	9-C	*	*	4	2	1	1			
40000	TO 5FFFF	257K	- 384K	D-14	*	*	*	3	2	1			
60000	TO 7FFFF	385K	- 512K	15-1C	*	*	*	4	2	1			
80000	TO BFFFF	513K	- 768K	1D-2C	*	*	*	*	3	2			
C0000	TO FFFFF	769K	- 1024K	2D-3C	*	*	*	*	4	2			

* NOT APPLICABLE.

(Step 025 continues)

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MAP 0000-22

B J
5 1
3

C S R QUICK ENTRY MAP

MAP 0000-23

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(Step 025 continued)

4954	STORAGE ADDRESS	16K	MODULE IF SAR BIT
	FROM TO	BLOCK	14 OFF 14 ON
INNER	0000 TO FFFF	1 - 4	1 OR 2 0 OR 3
OUTER	10000 TO 1FFFF	1 - 4	5 OR 6 4 OR 7
OUTER	20000 TO 2FFFF	5 - 8	9 OR A 8 OR B
OUTER	30000 TO 3FFFF	9 - C	D OR E C OR F

026

GO TO MAP 1470, ENTRY POINT A.

027

- See Installation instructions in MLD Volume One (1).
- GO TO MAP 0020, ENTRY POINT A.

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MAP 0000-23