

A01

BELL TELEPHONE LABORATORIES, INCORPORATED

MAY 1 1981

6-142

COMMON SYSTEMS  
FOR USE WITH NO. 3 ESS  
ARRANGED WITH 2-WIRE FEATURES  
SYSTEM STATUS BITS, SWITCHING, AND SYSTEM STATUS PANEL TESTS  
(CSTATS)

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ISSUE 4  
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AT&TCO  
SPCS

PR-1C932-50  
142 PAGES

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## SECTION DICTIONARY

NUMBER	NAME	MAXIMUM	ORIGIN	TYP	ADDRESS-MODIFICATION
01	CSTATUS	0000672		C	
02	CSTATUS2	0000674		C	
03	STATSUB	0000121		C	
04	CDGSSP	0000075		C	
05	CPATCH	0000000		C	
06	CPATCH1	0000765		C	
07	CPATCH2	0000000		C	
08	CPATCH3	0000072		C	
09	CPATCH7	0000000		C	
0A	TFAPCH2	0000000		C	
0B	TPATCH	0000000		C	

SYSTEM STATUS BITS, SWITCHING, AND SYSTEM STATUS PANEL TESTS

PR-1C932-50

00:39:22 02/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS

ISSUE 04 PAGE A1

0020213  
0020213  
0020213

```

01 DBNAM NO33E3I3.OFF.DATABASE
02 RELNAM NO3ESS
03 GETLIB LIBRARY, MEMBER=MOPTBL
04 GETLIB LIBRARY, MEMBER=SYSMAC
05 GETLIB LIBRARY, MEMBER=SYSSYM
06 GETLIB LIBRARY, MEMBER=PATCH2
07 FIRSTOPTSS
08 VERSION 3ACC, FIELD, ESSZE
09 PATCHINIT
10 NO33E3I3.OFF.OPMS(0) DECK
11 DSQUAL NO33E3I3
12 LISTING N, CRUNCH=Y, SYSOUT=N
13 #####
14 ##
15 ## UNIX ID = NO3PAG
16 ##
17 #####
18 #####
19 ###
20 ### pid date time rel
21 ###
22 ### cstats 1/24/81 18:05:22 7.1.1.1
23 ###
24 #####
25 VERSIONS (3ACC, INTERDATA), (FIELD, FACTORY, LAB)
26 # THIS DATA SET EDITED FOR UNIX ON 05/25/78
27 NAME CSTATS

```

0020213  
0021242  
0021105  
0023476

31 ## The following is a list of the valid csects for program CSTATS

```

33 CSTATUS CSECT
34 CSTATUS2 CSECT
35 STATSUB CSECT
36 CDGSSP CSECT

```

0111432  
0112562  
0114107  
0115073  
0121236

39 ## The following csects are necessary for patching

```

41 CPATCH CSECT
42 CPATCH1 CSECT
43 CPATCH2 CSECT
44 CPATCH3 CSECT
45 CPATCH7 CSECT

```

0116774

01 TFAPCH2 CSECT

0600000

03 TPATCH CSECT

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

E01

0:39:22 2/06/81 \*\*\*\*

CSTATS W77D

0600000

```
01 GETLIB MEMBER=DGNMAC
02 BEGIN DIAG STATS,3ACC
-001- 03 CDGNM EXTERN NMICRO
-001- 04 CDGNM EXTERN NRETRN
-001- 05 CDGNM EXTERN NZRETRN
-001- 06 CDGNM EXTERN NSTRT
-001- 07 CDGNM EXTERN NSTOP
-001- 08 CDGNM EXTERN NDISABA
-001- 09 CDGNM EXTERN NDISABB
-001- 10 CDGNM EXTERN NSTRTCLK
-001- 11 CDGNM EXTERN NSTPCLK
-001- 12 CDGNM EXTERN NTGCLK
-001- 13 CDGNM EXTERN NRESCLK
-001- 14 CDGNM EXTERN NZERO_ER
-001- 15 CDGNM EXTERN NPROS
-001- 16 CDGNM EXTERN NTESTSEG
-001- 17 CDGNM EXTERN NFAILTST
-001- 18 CDGNM EXTERN NTTY
-001- 19 CDGNM EXTERN NMASK
-001- 20 CDGNM EXTERN NPASSTST
-001- 21 CDGNM EXTERN NSEND
-001- 22 CDGNM EXTERN NZSEND
-001- 23 CDGNM EXTERN NADD_OFF
-001- 24 CDGNM EXTERN NADMIC
-001- 25 CDGNM EXTERN NLDMIR
-001- 26 CDGNM EXTERN NEXECUTE
-001- 27 CDGNM EXTERN NCOMPARE
-001- 28 CDGNM EXTERN NFRZ
-001- 29 CDGNM EXTERN NBEGIN
-001- 30 CDGNM EXTERN NLP_END
-001- 31 CDGNM EXTERN NSKIP
-001- 32 CDGNM EXTERN NABT
-001- 33 CDGNM EXTERN NRDMICRO
-001- 34 CDGNM EXTERN NCLRMS
-001- 35 CDGNM EXTERN NN03CD
-001- 36 CDGNM EXTERN NTMTEST
-001- 37 CDGNM EXTERN NZERPT
-001- 38 CDGNM EXTERN NFLBITS
-001- 39 CDGNM DIRECT INTRPN03
-001- 40 CDGNM EXTERN NBDN
-001- 41 CDGNOF EXTERN PASSOFF
-001- 42 CDGNOF EXTERN FAILOFF
-001- 43 CDGNM EXTERN SLDMCHBF
-001- 44 CDGNM EXTERN SLDMIRLF
-001- 45 CDGNM EXTERN SMCHF
-001- 46 CDGNM EXTERN NRTNBLM
-001- 47 CDGNM EXTERN NWDST
```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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CSTATS

W77D

-001- 01 # THIS DIAGNOSTIC PROGRAM IS ALL OR PARTIALLY WRITTEN IN A MACRO  
-001- 02 # LANGUAGE WHICH PRODUCES TABLES WHICH ARE INTERPRETED BY THE  
-001- 03 # DIAGNOSTIC MONITOR PROGRAM. FOR INFORMATION REGARDING THE  
-001- 04 # STRUCTURE OF THE TABLES, SEE THE SECTION OF PROGRAM CDGMM (PR-1C910-01)  
-001- 05 # ENTITLED "DIAGNOSTIC TABLE INTERPRETER". FOR A GENERAL DESCRIPTION  
-001- 06 # OF THE DIAGNOSTIC PHILOSOPHY AND THE DETAILED REPAIR PROCEEDURE,  
-001- 07 # SEE THE TROUBLE LOCATION MANUAL (TLM-1C900) SECTION B.

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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CSTATS W77D

01	CTSD	EXTERN	INITTST1
02	CTSD	EXTERN	INITTST2
03	CTSD	EXTERN	PAGSCR
04	CINIT	EXTERN	INITTSTC
05	CINIT	EXTERN	SANITYC
06	CDGNOF	EXTERN	BADBA
07	CDGNOF	EXTERN	GOODBA
08	CDGNOF	EXTERN	LDERBT
09	CDGNOF	EXTERN	LDTI
10	CDGNOF	EXTERN	RNSANITY
11	CDGNOF	EXTERN	IOERROR
12	CSYSUB	EXTERN	EXCMCH
13	CSYSUB	EXTERN	INITOST
14	CSYSUB	EXTERN	INSYNC

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-10

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 5

TEST 75

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS W77D

```

-001- 01 # *****
-001- 02 # *****
-001- 03 # **
-001- 04 # ** CU DIAGNOSTIC TEST NO. 75, SYSTEM_STATES_PT_1
-001- 05 # **
-001- 06 # *****
-001- 07 # *****

```

0020213

-001- 10 CSTATUS CSECT

-001- 13 # THIS TEST USES OFF-LINE CODE AT CSECT OSTATUS

```

0020213 01 000000 004345 000300 CDGMM -001- 17 VFD 1,0 2,0 2,1 2,0 3,3 6,NBGN
0020214 01 000001 000300 021226 EXTERN -001- 18 ADDR OSTATUS,XSTATUS

```

```

22 # SEGMENT 1
23 # THE STATUS BIT "HLT" CONTROLS THE HALT LIGHT ON THE
24 # PROCESSOR PANEL. THE BITS "ISC1" AND "ISC2" ARE USED AS
25 # SOFTWARE SWITCHES BY THE MICROPROGRAM. THE ABILITY
26 # TO SET AND CLEAR THESE BITS IS TESTED.

28 # SEGMENT 2
29 # THE CF FLOP SHOULD BE SET BY THE "SCF" CROSSPOINT AND
30 # CLEARED BY THE "ZCF" CROSSPOINT. ALSO THE "DSXCF"
31 # CROSSPOINT PUTS THE CF IN THE STATE OF THE DS.
32 # THERE ARE DUPLICATE COPIES OF THE CF IN THE MICRO-
33 # CONTROL STATUS REGISTER AND A COPY IN THE SYSTEM
34 # STATUS REGISTER FOR DISPLAY PURPOSES. ALL COPIES ARE
35 # CHECKED.

37 # SEGMENT 3
38 # GATING TO THE DB SHOULD TAKE PLACE WHEN THE "DBC" TO FIELD CROSSPOINT
39 # IS FIRED ONLY WHEN THE DISPLAY BIT IN THE SS IS SET

41 # SEGMENT 4
42 # A SWITCH MESSAGE OVER THE MAINTENANCE CHANNEL SHOULD
43 # CAUSE THE OPERATION OF AN INITIALIZATION CIRCUIT WHICH
44 # INITIALIZES SOME STATUS BITS AND THEN PASSES CONTROL TO
45 # THE INITIALIZATION MICROCODE. THE MICROCODE THEN TRANSFERS
46 # TO THE INIT PROGRAM. TWO TEST WORDS INITTST1 AND
47 # INITTST2 CAN BE LOADED WITH A TEST CONSTANT INITTSTC.
48 # IN THIS CASE THE INIT PROGRAM GOES DOWN A TEST
49 # BRANCH WHICH ZEROS INITTST1 AND HALTS THE PROCESSOR.

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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TEST 75

0:39:22 2/06/81 \*\*\*

SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS W77D

01 # THIS IS AN INDICATION THAT INITIALIZATION WAS SUCCESSFUL.

03 # SEGMENT 5

04 # THE SETTING OF ERROR REGISTER BITS 0-9 IN THE OFF-LINE

05 # PROCESSOR SHOULD RESULT IN A STOP AND SWITCH MESSAGE BEING

06 # SENT TO THE ON-LINE PROCESSOR. IN THE ON-LINE MACHINE,

07 # THIS RESULTS IN SETTING ERROR BIT "SWER". THE ERROR BIT SETS

08 # INTERRUPT BIT "ERRI". SETTING ERROR BITS 12&13 IN THE OFF-LINE

09 # PROCESSOR SHOULD RESULT IN AN INITIALIZATION OF THE OFF-LINE

10 # PROCESSOR. SETTING OF ERROR BITS 11, 14-19, PL OR PH SHOULD SET

11 # BIT "ERRI" IN THE IS REGISTER.

13 # SEGMENT 6

14 # THE BLOCK HARDWARE CHECK BIT IN THE SS REGISTER

15 # SHOULD PREVENT ERROR BITS 0-9 FROM CAUSING A STOP

16 # AND SWITCH AND PREVENT ERROR BITS 10-13 FROM CAUSING

17 # AN INITIALIZATION

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 75 SEGMENT 1

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS

W770

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 75 SEGMENT 1
-001- 04 # *
-001- 05 # *****

0020216 01 000003 000100 ----- CDGNM -001- 08 VFD 1,0 2,0 2,0 5,D(1) 6,NTESTSEG

11 # THE STATUS BIT "HLT" CONTROLS THE HALT LIGHT ON THE
12 # PROCESSOR PANEL. THE BITS "ISC1" AND "ISC2" ARE USED AS
13 # SOFTWARE SWITCHES BY THE MICROPROGRAM. THE ABILITY
14 # TO SET AND CLEAR THESE BITS IS TESTED.

0001500 16 SCONST EQU M(HLT)IM(ISC1)IM(ISC2)

-001- 18 # LP_BEGIN
-001- 19 # BEGIN 3 LOOPS.
0020217 01 000004 000301 ----- CDGNM -001- 20 SSLP VFD 1,0 2,0 7,D(3) 6,NBEGIN

0020220 22 # THE BITS TO BE TESTED ARE ALL IN THE
SS REGISTER

-001- 24 # SEND
-001- 25 # SEND 0(0000340) TO OFF-LINE MCHB.
-001- 26 # PARITY IS NORMAL.
0020220 01 000005 047706 ----- CDGNM -001- 27 VFD 1,0 2,2 7,B(0111111) 6,NSEND
0020221 01 000006 000000 000340 -001- 28 ADDR 0(0000340)

0020223 30 # CLEAR, SET, AND THEN CLEAR THE BITS
-001- 31 # MICRO
-001- 32 # PERFORM MICRO INSTRUCTIONS IN OFF-LINE CU.
0020223 01 000010 120005 ----- CDGNM -001- 33 VFD 1,1 2,1 7,D 6,NMICRO
0020224 01 000011 107231 ----- -001- 34 VFD 8,SS_RXT 8,MCHBXF # LOOP 1
0020225 01 000012 105631 ----- -001- 35 VFD 8,SS_SXT 8,MCHBXF # LOOP 2
0020226 01 000013 107231 ----- -001- 36 VFD 8,SS_RXT 8,MCHBXF # LOOP 3

-001- 38 # MICRO
-001- 39 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 40 # TO FIELD = MCHBXT FROM FIELD = SSXF
0020227 01 000014 020005 ----- CDGNM -001- 41 VFD 1,0 2,1 7,0 6,NMICRO
0020230 01 000015 114616 ----- -001- 42 VFD 8,MCHBXT 8,SSXF

-001- 44 # RETRN
-001- 45 # RETURN OFF-LINE MCHB TO ON-LINE MCHB.
0020231 01 000016 007710 ----- CDGNM -001- 46 VFD 1,0 2,0 7,B(0111111) 6,NRETRN

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 75 SEGMENT 1

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS

W77D

```

-001- 01 # COMPARE
-001- 02 # COMPARE ON-LINE MCHB BIT S(HLT) TO CONSTANTS.
-001- 03 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020232 01 000017 120514 ----- CDGNM -001- 04 # VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,(S(HLT)) 6,NCOMPARE
0020233 01 000020 000000 ----- -001- 05 # VFD 15,0 1,0 # LOOP 1
0020234 01 000021 000001 ----- -001- 06 # VFD 15,0 1,1 # LOOP 2
0020235 01 000022 000000 ----- -001- 07 # VFD 15,0 1,0 # LOOP 3

-001- 09 # FAILTST
-001- 10 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLHLT.
0020236 01 000023 020017 ----- CDGNM -001- 11 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020237 01 000024 000004 ----- -001- 12 # VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 13 # VFD 16,FLHLT

-001- 15 # COMPARE
-001- 16 # COMPARE ON-LINE MCHB BIT S(ISC1) TO CONSTANTS.
-001- 17 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020240 01 000025 120614 ----- CDGNM -001- 18 # VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(ISC1) 6,NCOMPARE
0020241 01 000026 000000 ----- -001- 19 # VFD 15,0 1,0 # LOOP 1
0020242 01 000027 000001 ----- -001- 20 # VFD 15,0 1,1 # LOOP 2
0020243 01 000030 000000 ----- -001- 21 # VFD 15,0 1,0 # LOOP 3

-001- 23 # FAILTST
-001- 24 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLISC1.
0020244 01 000031 020017 ----- CDGNM -001- 25 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020245 01 000032 000002 ----- -001- 26 # VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 27 # VFD 16,FLISC1

-001- 29 # COMPARE
-001- 30 # COMPARE ON-LINE MCHB BIT S(ISC2) TO CONSTANTS.
-001- 31 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020246 01 000033 120714 ----- CDGNM -001- 32 # VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(ISC2) 6,NCOMPARE
0020247 01 000034 000000 ----- -001- 33 # VFD 15,0 1,0 # LOOP 1
0020250 01 000035 000001 ----- -001- 34 # VFD 15,0 1,1 # LOOP 2
0020251 01 000036 000000 ----- -001- 35 # VFD 15,0 1,0 # LOOP 3

-001- 37 # FAILTST
-001- 38 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLISC2.
0020252 01 000037 020017 ----- CDGNM -001- 39 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020253 01 000040 000003 ----- -001- 40 # VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 41 # VFD 16,FLISC2

-001- 43 # LP_END
-001- 44 # TERMINATE LOOP.
0020254 01 000041 040002 000000 CDGNM -001- 45 # VFD 1,0 2,2 7,0 6,NLP_END
0020255 01 000042 000000 020217 0020217 -001- 46 # ADDR LPSTART

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 75 SEGMENT 2

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SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS

W77D

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 75 SEGMENT 2
-001- 04 # *
-001- 05 # *****

0020257 01 000044 000200 ----- CDGNM -001- 08 VFD 1,0 2,0 2,0 5,D(2) 6,NTESTSEG

11 # THE CF FLOP SHOULD BE SET BY THE "SCF" CROSSPOINT AND
12 # CLEARED BY THE "ZCF" CROSSPOINT. ALSO THE "DSXCF"
13 # CROSSPOINT PUTS THE CF IN THE STATE OF THE DS.
14 # THERE ARE DUPLICATE COPIES OF THE CF IN THE MICRO-
15 # CONTROL STATUS REGISTER AND A COPY IN THE SYSTEM
16 # STATUS REGISTER FOR DISPLAY PURPOSES. ALL COPIES ARE
17 # CHECKED.

0020260 19 # ATTEMPT TO CLEAR CF BUT DON'T CHECK
-001- 20 # MICRO
-001- 21 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 22 # MISCELLANEOUS CROSSPOINT ZCFX
0020260 01 000045 020005 ----- CDGNM -001- 23 VFD 1,0 2,1 7,0 6,NMICRO
0020261 01 000046 036072 ----- -001- 24 VFD 16,ZCFX

0020262 26 # SET CF
-001- 27 # MICRO
-001- 28 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 29 # MISCELLANEOUS CROSSPOINT SCFX
0020262 01 000047 020005 ----- CDGNM -001- 30 VFD 1,0 2,1 7,0 6,NMICRO
0020263 01 000050 036071 ----- -001- 31 VFD 16,SCFX

-001- 33 # RETRN
-001- 34 # RETURN OFF-LINE MCS TO ON-LINE MCHB.
0020264 01 000051 017311 ----- CDGNM -001- 35 VFD 1,0 2,0 7,B(1111011) 6,NZRETRN

-001- 37 # COMPARE
-001- 38 # COMPARE ON-LINE MCHB BIT S(CFO) TO 1.
-001- 39 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020265 01 000052 020014 ----- CDGNM -001- 40 VFD 1,LPINDX 2,1 1,0 1,SUCCES 5,S(CFO) 6,NCOMPARE
0020266 01 000053 000001 ----- -001- 41 VFD 15,0 1,1

-001- 43 # FAILTST
-001- 44 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLCFO.
-001- 45 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020267 01 000054 020017 ----- CDGNM -001- 46 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0020270 01 000055 000005 ----- -001- 47 VFD 16,FLCFO

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 75 SEGMENT 2

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS

W77D

```

-001- 01 # COMPARE
-001- 02 # COMPARE ON-LINE MCHB BIT S(CF1) TO 1.
-001- 03 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020271 01 000056 020114 ----- CDGNM -001- 04 # VFD 1,LPINDX 2,1 1,0 1,SUCCES 5,S(CF1) 6,NCOMPARE
0020272 01 000057 000001 ----- -001- 05 # VFD 15,0 1,1

-001- 07 # FAILTST
-001- 08 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLCF1.
-001- 09 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020273 01 000060 020017 ----- CDGNM -001- 10 # VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0020274 01 000061 000006 ----- -001- 11 # VFD 16,FLCF1

0020275 # CLEAR CF
-001- 14 # MICRO
-001- 15 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 16 # MISCELLANEOUS CROSSPOINT ZCFX
0020275 01 000062 020005 ----- CDGNM -001- 17 # VFD 1,0 2,1 7,0 6,NMICRO
0020276 01 000063 036072 ----- -001- 18 # VFD 16,ZCFX

-001- 20 # RETRN
-001- 21 # RETURN OFF-LINE MCS TO ON-LINE MCHB.
0020277 01 000064 017311 ----- CDGNM -001- 22 # VFD 1,0 2,0 7,B(1111011) 6,N2RETRN

-001- 24 # COMPARE
-001- 25 # COMPARE ON-LINE MCHB BIT S(CF0) TO 0.
-001- 26 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020300 01 000065 020014 ----- CDGNM -001- 27 # VFD 1,LPINDX 2,1 1,0 1,SUCCES 5,S(CF0) 6,NCOMPARE
0020301 01 000066 000000 ----- -001- 28 # VFD 15,0 1,0

-001- 30 # FAILTST
-001- 31 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLCFO.
-001- 32 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020302 01 000067 020017 ----- CDGNM -001- 33 # VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0020303 01 000070 000005 ----- -001- 34 # VFD 16,FLCFO

-001- 36 # COMPARE
-001- 37 # COMPARE ON-LINE MCHB BIT S(CF1) TO 0.
-001- 38 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020304 01 000071 020114 ----- CDGNM -001- 39 # VFD 1,LPINDX 2,1 1,0 1,SUCCES 5,S(CF1) 6,NCOMPARE
0020305 01 000072 000000 ----- -001- 40 # VFD 15,0 1,0

-001- 42 # FAILTST
-001- 43 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLCF1.
-001- 44 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020306 01 000073 020017 ----- CDGNM -001- 45 # VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0020307 01 000074 000006 ----- -001- 46 # VFD 16,FLCF1

```

SYS STATUS BITS,SWITCHING,AND SYS STATUS PANEL TESTS

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TEST 75 SEGMENT 2

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS

W77D

```

0020310                                01                                # TRY "DSXCF" WITH DS=1
-001- 02 # MICRO
-001- 03 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 04 # MISCELLANEOUS CROSSPOINT SDSX
0020310 01 000075 020005 ----- CDGNN -001- 05 VFD 1,0 2,1 7,0 6,NMICRO
0020311 01 000076 146071 ----- -001- 06 VFD 16,SDSX

-001- 08 # MICRO
-001- 09 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 10 # MISCELLANEOUS CROSSPOINT DSXCFX
0020312 01 000077 020005 ----- CDGNN -001- 11 VFD 1,0 2,1 7,0 6,NMICRO
0020313 01 000100 146066 ----- -001- 12 VFD 16,DSXCFX

-001- 14 # RETRN
-001- 15 # RETURN OFF-LINE MCS TO ON-LINE MCHB.
0020314 01 000101 017311 ----- CDGNN -001- 16 VFD 1,0 2,0 7,B(1111011) 6,N2RETRN

-001- 18 # COMPARE
-001- 19 # COMPARE ON-LINE MCHB BIT S(CFO) TO 1.
-001- 20 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020315 01 000102 020014 ----- CDGNN -001- 21 VFD 1,LPINDX 2,1 1,0 1,SUCCES 5,S(CFO) 6,NCOMPARE
0020316 01 000103 000001 ----- -001- 22 VFD 15,0 1,1

-001- 24 # FAILTST
-001- 25 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS DSXCFO.
-001- 26 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020317 01 000104 020017 ----- CDGNN -001- 27 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0020320 01 000105 000010 ----- -001- 28 VFD 16,DSXCFO

-001- 30 # COMPARE
-001- 31 # COMPARE ON-LINE MCHB BIT S(CF1) TO 1.
-001- 32 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020321 01 000106 020114 ----- CDGNN -001- 33 VFD 1,LPINDX 2,1 1,0 1,SUCCES 5,S(CF1) 6,NCOMPARE
0020322 01 000107 000001 ----- -001- 34 VFD 15,0 1,1

-001- 36 # FAILTST
-001- 37 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS DSXCF1.
-001- 38 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020323 01 000110 020017 ----- CDGNN -001- 39 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0020324 01 000111 000011 ----- -001- 40 VFD 16,DSXCF1

0020325                                42                                # TRY "DSXCF" WITH DS=0
-001- 43 # MICRO
-001- 44 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 45 # MISCELLANEOUS CROSSPOINT ZDSX
0020325 01 000112 020005 ----- CDGNN -001- 46 VFD 1,0 2,1 7,0 6,NMICRO
0020326 01 000113 146072 ----- -001- 47 VFD 16,ZDSX

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 75 SEGMENT 2

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SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

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				-001- 01 #	MICRO
				-001- 02 #	PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
				-001- 03 #	MISCELLANEOUS CROSSPOINT DSXCFX
0020327 01	000114	020005	-----	-001- 04	VFD 1,0 2,1 7,0 6,NMICRO
0020330 01	000115	146066	-----	-001- 05	VFD 16,DSXCFX
				-001- 07 #	RETRN
				-001- 08 #	RETURN OFF-LINE MCS TO ON-LINE MCHB.
0020331 01	000116	017311	-----	-001- 09	VFD 1,0 2,0 7,B(1111011) 6,N2RETRN
				-001- 11 #	COMPARE
				-001- 12 #	COMPARE ON-LINE MCHB BIT S(CFD) TO 0.
				-001- 13 #	IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020332 01	000117	020014	-----	-001- 14	VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(CFD) 6,NCOMPARE
0020333 01	000120	000000	-----	-001- 15	VFD 15,0 1,0
				-001- 17 #	FAILTST
				-001- 18 #	FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS DSXCFD.
				-001- 19 #	DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020334 01	000121	020017	-----	-001- 20	VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0020335 01	000122	000010	-----	-001- 21	VFD 16,DSXCFD
				-001- 23 #	COMPARE
				-001- 24 #	COMPARE ON-LINE MCHB BIT S(CF1) TO 0.
				-001- 25 #	IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020336 01	000123	020114	-----	-001- 26	VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(CF1) 6,NCOMPARE
0020337 01	000124	000000	-----	-001- 27	VFD 15,0 1,0
				-001- 29 #	FAILTST
				-001- 30 #	FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS DSXCF1.
				-001- 31 #	DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020340 01	000125	020017	-----	-001- 32	VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0020341 01	000126	000011	-----	-001- 33	VFD 16,DSXCF1

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 75 SEGMENT 3

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS W77D

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 75 SEGMENT 3
-001- 04 # *
-001- 05 # *****

0020342 01 000127 000300 ----- CDGNM -001- 08 VFD 1,0 2,0 2,0 5,D(3) 6,NTESTSEG

11 # GATING TO THE DB SHOULD TAKE PLACE WHEN THE "DBC" TO FIELD CROSSPOINT
12 # IS FIRED ONLY WHEN THE DISPLAY BIT IN THE SS IS SET

-001- 14 # SEND
-001- 15 # SEND 0(0000000) TO OFF-LINE MCHB.
-001- 16 # PARITY IS 0(0).
0020343 01 000130 047707 ----- CDGNM -001- 17 VFD 1,0 2,2 7,B(0111111) 6,N2SEND
0020344 01 000131 000000 000000 -001- 18 ADDR 0(0000000),0(0)

0020346 20 # INITIALIZE DB TO ALL OS, PL=PH=0
-001- 21 # MICRO
-001- 22 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 23 # TO FIELD = DBXT FROM FIELD = MCHBXF
0020346 01 000133 020005 ----- CDGNM -001- 24 VFD 1,0 2,1 7,0 6,NMICRO
0020347 01 000134 124631 ----- -001- 25 VFD 8,DBXT 8,MCHBXF

-001- 27 # MICRO
-001- 28 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 29 # MISCELLANEOUS CROSSPOINT SBRX
0020350 01 000135 020005 ----- CDGNM -001- 30 VFD 1,0 2,1 7,0 6,NMICRO
0020351 01 000136 023712 ----- -001- 31 VFD 16,SBRX

-001- 33 # LP_BEGIN
-001- 34 # BEGIN 2 LOOPS.
0020352 01 000137 000201 ----- CDGNM -001- 35 DSPLP VFD 1,0 2,0 7,D(2) 6,NBEGIN

-001- 37 # SEND
-001- 38 # SEND 0(0400000) TO OFF-LINE MCHB.
-001- 39 # PARITY IS NORMAL.
0020353 01 000140 047706 ----- CDGNM -001- 40 VFD 1,0 2,2 7,B(0111111) 6,NSEND
0020354 01 000141 000002 000000 -001- 41 ADDR 0(0400000)

-001- 43 # MICRO
-001- 44 # PERFORM MICRO INSTRUCTIONS IN OFF-LINE CU.
-001- 45 VFD 1,1 2,1 7,0 6,NMICRO
0020356 01 000143 120005 ----- CDGNM -001- 46 VFD 8,SS_RXT 8,MCHBXF # LOOP 1
0020357 01 000144 107231 ----- -001- 47 VFD 8,SS_SXT 8,MCHBXF # LOOP 2
0020360 01 000145 105631 -----

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 75 SEGMENT 3

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SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

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```

-001- 01 # MICRO
-001- 02 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 03 # TO FIELD = DBCXT FROM FIELD = BRXF
0020361 01 000146 020005 ----- CDGNM -001- 04 # VFD 1,0 2,1 7,0 6,NMICRO
0020362 01 000147 126342 ----- -001- 05 # VFD 8,DBCXT 8,BRXF

-001- 07 # MICRO
-001- 08 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 09 # TO FIELD = MCHBXT FROM FIELD = DBXF
0020363 01 000150 020005 ----- CDGNM -001- 10 # VFD 1,0 2,1 7,0 6,NMICRO
0020364 01 000151 114651 ----- -001- 11 # VFD 8,MCHBXT 8,DBXF

-001- 13 # RETRN
-001- 14 # RETURN OFF-LINE MCHB TO ON-LINE MCHB.
0020365 01 000152 007710 ----- CDGNM -001- 15 # VFD 1,0 2,0 7,B(0111111) 6,NRETRN

-001- 17 # COMPARE
-001- 18 # COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO CONSTANTS.
-001- 19 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020366 01 000153 150014 ----- CDGNM -001- 20 # VFD 1,LPINDX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
0020367 01 000154 000000 000000 -001- 21 # ADDR 0(0000000) # LOOP 1
0020371 01 000156 000017 177777 -001- 22 # ADDR 0(3777777) # LOOP 2

-001- 24 # FAILTST
-001- 25 # FAILURE EXIT
-001- 26 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020373 01 000160 120017 ----- CDGNM -001- 27 # VFD 1,1 2,1 5,0 2,0 6,NFAILTST
0020374 01 000161 000012 ----- -001- 28 # VFD 16,FLBDISP # LOOP 1
0020375 01 000162 000013 ----- -001- 29 # VFD 16,FLNODISP # LOOP 2

-001- 31 # COMPARE
-001- 32 # COMPARE ON-LINE MCHB BIT PL TO CONSTANTS.
-001- 33 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020376 01 000163 122414 ----- CDGNM -001- 34 # VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,PL 6,NCOMPARE
0020377 01 000164 000000 ----- -001- 35 # VFD 15,0 1,0 # LOOP 1
0020400 01 000165 000001 ----- -001- 36 # VFD 15,0 1,1 # LOOP 2

-001- 38 # FAILTST
-001- 39 # FAILURE EXIT
-001- 40 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020401 01 000166 120017 ----- CDGNM -001- 41 # VFD 1,1 2,1 5,0 2,0 6,NFAILTST
0020402 01 000167 000012 ----- -001- 42 # VFD 16,FLBDISP # LOOP 1
0020403 01 000170 000013 ----- -001- 43 # VFD 16,FLNODISP # LOOP 2

-001- 45 # COMPARE
-001- 46 # COMPARE ON-LINE MCHB BIT PH TO CONSTANTS.
-001- 47 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020404 01 000171 122514 ----- CDGNM -001- 48 # VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,PH 6,NCOMPARE
0020405 01 000172 000000 ----- -001- 49 # VFD 15,0 1,0 # LOOP 1

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 75 SEGMENT 3

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SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

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0020406 01 000173 000001 -----	-001- 01	VFD	15,0 1,1	#	LOOP 2
	-001- 03 #		FAILTST		
	-001- 04 #		FAILURE EXIT		
	-001- 05 #		DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.		
0020407 01 000174 120017 ----- CDGNM	-001- 06	VFD	1,1 2,1 5,0 2,0 6,NFAILTST		
0020410 01 000175 000012 -----	-001- 07	VFD	16,FLBDISP	#	LOOP 1
0020411 01 000176 000013 -----	-001- 08	VFD	16,FLNODISP	#	LOOP 2
	-001- 10 #		LP_END		
	-001- 11 #		TERMINATE LOOP.		
0020412 01 000177 040002 000000 CDGNM	-001- 12	VFD	1,0 2,2 7,0 6,NLP_END		
0020413 01 000200 000000 020352 0020352	-001- 13	ADDR	LPSTART		

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 75 SEGMENT 4

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS W77D

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 75 SEGMENT 4
-001- 04 # *
-001- 05 # *****

0020415 01 000202 000400 ----- CDGNM -001- 08 VFD 1,0 2,0 2,0 5,D(4) 6,NTESTSEG

11 # A SWITCH MESSAGE OVER THE MAINTENANCE CHANNEL SHOULD
12 # CAUSE THE OPERATION OF AN INITIALIZATION CIRCUIT WHICH
13 # INITIALIZES SOME STATUS BITS AND THEN PASSES CONTROL TO
14 # THE INITIALIZATION MICROCODE. THE MICROCODE THEN TRANSFERS
15 # TO THE INIT PROGRAM. TWO TEST WORDS INITTST1 AND
16 # INITTST2 CAN BE LOADED WITH A TEST CONSTANT INITTSTC.
17 # IN THIS CASE THE INIT PROGRAM GOES DOWN A TEST
18 # BRANCH WHICH ZEROS INITTST1 AND HALTS THE PROCESSOR.
19 # THIS IS AN INDICATION THAT INITIALIZATION WAS SUCCESSFUL.

-001- 21 # RTN_BLM
-001- 22 # TURN OFF AUTOMATIC RETURNS TO BLM EVERY 20 TABLE ENTRIES.
0020416 01 000203 000144 ----- CDGNM -001- 23 VFD 1,0 2,0 6,0 1,1 6,NRTNBLM

-001- 25 # CALLPROS
-001- 26 # RETURN TO CALL PROCESSING FOR ONE BASE LEVEL LOOP.
0020417 01 000204 000004 ----- CDGNM -001- 27 VFD 1,0 2,0 6,0 1,0 6,NPROS

0020420 29 # SET UP TEST CONSTANTS IN STANDBY
PROCESSORS.

-001- 31 # NO3_CODE
-001- 32 # PROCESS 3ACC CODED ROUTINE AT ADDRESS MRFINIT.
0020420 01 000205 040043 000000 CDGNM -001- 33 VFD 1,0 2,2 7,0 6,NN03CD
0020421 01 000206 000000 020745 0020745 -001- 34 ADDR MRFINIT

0020423 36 INITRDY
0020423 37 # SEND SWITCH MESSAGE

-001- 38 # NO3_CODE
-001- 39 # PROCESS 3ACC CODED ROUTINE AT ADDRESS SWMSG.
0020423 01 000210 040043 000000 CDGNM -001- 40 VFD 1,0 2,2 7,0 6,NN03CD
0020424 01 000211 000000 020764 0020764 -001- 41 ADDR SWMSG

0020426 43 SWDONE
-001- 44 # TIMETST
-001- 45 # ALLOW OFF-LINE TO RUN FOR 1000 MICROSECONDS WHILE ON-LINE WAITS.
0020426 01 000213 020003 ----- CDGNM -001- 46 VFD 1,0 2,1 7,0 6,NTMTEST
0020427 01 000214 000620 ----- -001- 47 VFD 16,LPNUM

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 75 SEGMENT 4

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SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS W77D

```

0020430      01      01      #  INITIALIZATION OF STANDBY PROCESSOR
                                SETS STORE ISOLATE BITS.  CLEAR ISOLATE
                                BITS BY INITIALIZING MMSR.

                                -001- 04 #  STOP OFF
                                -001- 05 #  SET STOP BIT IN OFF-LINE CU.
0020430 01 000215 017627 ----- CDGNM  -001- 06   VFD   1,0 2,0 7,B(1111110) 6,NSTOP

                                -001- 08 #  SEND
                                -001- 09 #  SEND 0(0000260) TO OFF-LINE DUPLICATE B REGISTERS.
                                -001- 10 #  PARITY IS NORMAL.
0020431 01 000216 056706 ----- CDGNM  -001- 11   VFD   1,0 2,2 7,B(1110111) 6,NSEND
0020432 01 000217 000000 000260        -001- 12   ADDR  0(0000260)

                                -001- 14 #  MICRO
                                -001- 15 #  PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
                                -001- 16 #  MISCELLANEOUS CROSSPOINT BRXMMS%
0020434 01 000221 020005 ----- CDGNM  -001- 17   VFD   1,0 2,1 7,0 6,NMICRO
0020435 01 000222 145312 -----        -001- 18   VFD   16,BRXMMS%

0020436      20      #  IF INITIALIZATION PROCEEDED THROUGH
                                MICROCODE, CONTROL WORD INITTST1 SHOULD
                                BE CLEARED

                                -001- 23 #  NO3 CODE
                                -001- 24 #  PROCESS 3ACC CODED ROUTINE AT ADDRESS CHKTST1.
0020436 01 000223 040043 000000 CDGNM  -001- 25   VFD   1,0 2,2 7,0 6,NNO3CD
0020437 01 000224 000000 020777 0020777 -001- 26   ADDR  CHKTST1

                                28 CKTST1DN
                                -001- 29 #  COMPARE
                                -001- 30 #  COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(0000000).
                                -001- 31 #  IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020441 01 000226 050014 ----- CDGNM  -001- 32   VFD   1,LPINDX 2,2 1,1 1,SUCCES 5,0 6,NCOMPARE
0020442 01 000227 000000 000000        -001- 33   ADDR  0(0000000)

                                -001- 35 #  FAILTST
                                -001- 36 #  FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLINIT.
                                -001- 37 #  DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020444 01 000231 020017 ----- CDGNM  -001- 38   VFD   1,0 2,1 5,0 2,0 6,NFAILTST
0020445 01 000232 000042 -----        -001- 39   VFD   16,FLINIT

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 75 SEGMENT 5

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS W770

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 75 SEGMENT 5
-001- 04 # *
-001- 05 # *****

```

```

0020446 01 000233 000500 ----- CDGNM -001- 08 VFD 1,0 2,0 2,0 5,D(5) 6,NTESTSEG

```

```

11 # THE SETTING OF ERROR REGISTER BITS 0-9 IN THE OFF-LINE
12 # PROCESSOR SHOULD RESULT IN A STOP AND SWITCH MESSAGE BEING
13 # SENT TO THE ON-LINE PROCESSOR. IN THE ON-LINE MACHINE,
14 # THIS RESULTS IN SETTING ERROR BIT "SWER". THE ERROR BIT SETS
15 # INTERRUPT BIT "ERRI". SETTING ERROR BITS 12&13 IN THE OFF-LINE
16 # PROCESSOR SHOULD RESULT IN AN INITIALIZATION OF THE OFF-LINE
17 # PROCESSOR. SETTING OF ERROR BITS 11, 14-19, PL OR PH SHOULD SET
18 # BIT "ERRI" IN THE IS REGISTER.

```

```

20 # IN THIS DIAGNOSTIC TEST, INITIALIZATIONS IN THE OFF-LINE
21 # PROCESSOR ARE DETECTED AS FOLLOWS. TEMPORARY STORE WORDS
22 # "INITTST1" AND "INITTST2" ARE SET TO THE CONSTANT "INITTSTC".
23 # THIS CONDITION IS RECOGNIZED BY THE INITIALIZATION
24 # PROGRAM AS A TEST. THE TWO WORDS WILL BE CLEARED
25 # AND INITIALIZATION WILL BE TERMINATED. THE DIAGNOSTIC
26 # CAN CHECK FOR ZEROED TEST WORDS.

```

```

28 # A STOP AND SWITCH MESSAGE RECEIVED BY THE ON-LINE
29 # PROCESSOR IS DETECTED AS FOLLOWS. NORMALLY, THIS RESULTS
30 # IN SETTING THE "SWER" BIT IN THE ON-LINE ER WHICH
31 # IN TURN SETS THE "ERRI" INTERRUPT BIT IN THE 'IS'. THIS
32 # INTERRUPT WILL BE MASKED AND THE "ERRI" BIT CAN
33 # BE CHECKED BY THE DIAGNOSTIC.

```

```

-001- 35 # LP_BEGIN
-001- 36 # BEGIN 10 LOOPS.
0020447 01 000234 001201 ----- CDGNM -001- 37 ERMFLP VFD 1,0 2,0 7,D(10) 6,NBEGIN

```

```

-001- 39 # CALLPROS
-001- 40 # RETURN TO CALL PROCESSING FOR ONE BASE LEVEL LOOP.
0020450 01 000235 000004 ----- CDGNM -001- 41 VFD 1,0 2,0 6,0 1,0 6,NPROS

```

0020451

43

```

# SET UP CONDITIONS TO CHECK FOR
OFF-LINE INITIALIZATION AND ON-LINE
RECEIVING STOP AND SWITCH MESSAGE

```

```

-001- 46 # ZERO_ER
-001- 47 # ZERO THE OFF-LINE ER.
0020451 01 000236 000012 ----- CDGNM -001- 48 VFD 1,0 2,0 7,0 6,NZERO_ER

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 75 SEGMENT 5

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SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS W77D

```

-001- 01 # RETRN
-001- 02 # RETURN OFF-LINE ER TO ON-LINE MCHB.
0020452 01 000237 013710 ----- CDGNM -001- 03 VFD 1,0 2,0 7,B(1011111) 6,NRETRN

-001- 05 # MASK
-001- 06 # MASK CONTENTS OF ON-LINE MCHB WITH 0(0033777).
0020453 01 000240 040013 ----- CDGNM -001- 07 VFD 1,0 2,2 7,0 6,NMASK
0020454 01 000241 000000 033777 -001- 08 ADDR 0(0033777)

0020456 10 # IF ANY OF THE LOW 13 ERROR BITS OF
# THE STANDBY PROCESSOR CAN NOT BE
# CLEARED, TERMINATE TEST HERE.

-001- 13 # COMPARE
-001- 14 # COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(0000000).
-001- 15 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020456 01 000243 050014 ----- CDGNM -001- 16 VFD 1,LPINDX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
0020457 01 000244 000000 000000 -001- 17 ADDR 0(0000000)

-001- 19 # FAILBIT
-001- 20 # FAILURE EXIT. SYMBOLIC TROUBLE NUMBER IS CLRERXX
-001- 21 # WHERE XX IS THE LOWEST FAILING BIT NUMBER.
0020461 01 000246 020020 ----- CDGNM -001- 22 VFD 1,0 2,1 5,0 2, 6,NFLBITS
0020462 01 000247 000043 ----- -001- 23 VFD 16,CLRER

-001- 25 # NO3 CODE
-001- 26 # PROCESS 3ACC CODED ROUTINE AT ADDRESS TSTMRF1.
0020463 01 000250 040043 000000 CDGNM -001- 27 VFD 1,0 2,2 7,0 6,NNO3CD
0020464 01 000251 000000 021006 0021006 -001- 28 ADDR TSTMRF1

0020466 30 ERLW # SET OFF-LINE ERROR BITS 0-9
0020466 31

-001- 32 # SEND
-001- 33 # SEND CONSTANTS TO OFF-LINE MCHB.
-001- 34 # PARITY IS 0(0).
0020466 01 000253 147707 ----- CDGNM -001- 35 VFD 1,1 2,2 7,B(0111111) 6,N2SEND
0020467 01 000254 000000 000001 -001- 36 ADDR 0(0000001),0(0) # LOOP 1
0020471 01 000256 000000 000002 -001- 37 ADDR 0(0000002),0(0) # LOOP 2
0020473 01 000260 000000 000004 -001- 38 ADDR 0(0000004),0(0) # LOOP 3
0020475 01 000262 000000 000010 -001- 39 ADDR 0(0000010),0(0) # LOOP 4
0020477 01 000264 000000 000020 -001- 40 ADDR 0(0000020),0(0) # LOOP 5
0020501 01 000266 000000 000040 -001- 41 ADDR 0(0000040),0(0) # LOOP 6
0020503 01 000270 000000 000100 -001- 42 ADDR 0(0000100),0(0) # LOOP 7
0020505 01 000272 000000 000200 -001- 43 ADDR 0(0000200),0(0) # LOOP 8
0020507 01 000274 000000 000400 -001- 44 ADDR 0(0000400),0(0) # LOOP 9
0020511 01 000276 000000 001000 -001- 45 ADDR 0(0001000),0(0) # LOOP 10

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 75 SEGMENT 5

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SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS W770

```

-001- 01 # MICRO
-001- 02 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 03 # TO FIELD = ROXT FROM FIELD = MCHBXF
0020513 01 000300 020005 ----- CDGMM -001- 04 VFD 1,0 2,1 7,0 6,NMICRO
0020514 01 000301 051631 ----- -001- 05 VFD 8,ROXT 8,MCHBXF

0020515 07 # OFF-LINE CODE WILL CLEAR ER, IDLE
# MAINTENANCE CHANNEL SWITCH SEQUENCER,
# AND GATE A BIT INTO THE ER

-001- 10 # ADD_OFF
-001- 11 # START OFF-LINE PROCESSOR AT ADDRESS LDERBT.
0020515 01 000302 040022 000000 CDGMM -001- 12 VFD 1,0 2,2 7,0 6,NADD_OFF
0020516 01 000303 000000 021226 CDGNOF -001- 13 ADDR LDERBT

-001- 15 # STOP_OFF
-001- 16 # SET STOP BIT IN OFF-LINE CU.
0020520 01 000305 017627 ----- CDGMM -001- 17 VFD 1,0 2,0 7,8(1111110) 6,NSTOP

-001- 19 # ZERO_ER
-001- 20 # ZERO THE OFF-LINE ER.
0020521 01 000306 000012 ----- CDGMM -001- 21 VFD 1,0 2,0 7,0 6,NZERO_ER

-001- 23 # SEND
-001- 24 # SEND 0(000002) TO OFF-LINE GENERAL REGISTER 2.
-001- 25 # PARITY IS NORMAL.
0020522 01 000307 057606 ----- CDGMM -001- 26 VFD 1,0 2,2 7,8(1111110) 6,NSEND
0020523 01 000310 053000 ----- -001- 27 VFD 8,R2XT 2,0 2,0(0)
0020524 01 000311 000002 ----- -001- 28 VFD 16,0(000002)

-001- 30 # MICRO
-001- 31 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 32 # TO FIELD = SS_SXT FROM FIELD = R2XF
0020525 01 000312 020005 ----- CDGMM -001- 33 VFD 1,0 2,1 7,0 6,NMICRO
0020526 01 000313 105526 ----- -001- 34 VFD 8,SS_SXT 8,R2XF

-001- 36 # NO3_CODE
-001- 37 # PROCESS 3ACC CODED ROUTINE AT ADDRESS TSTON1.
0020527 01 000314 040043 000000 CDGMM -001- 38 VFD 1,0 2,2 7,0 6,NN03CD
0020530 01 000315 000000 021024 0021024 -001- 39 ADDR TSTON1

0020532 41 ONT1
0020532 42 # ON-LINE SHOULD HAVE RECEIVED STOP AND
# SWITCH MESSAGE

-001- 44 # COMPARE
-001- 45 # COMPARE ON-LINE MCHB BIT 0 TO 1.
-001- 46 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020532 01 000317 020014 ----- CDGMM -001- 47 VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,0 6,NCOMPARE
0020533 01 000320 000001 ----- -001- 48 VFD 15,0 1,1

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SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 21

TEST 75 SEGMENT 5

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS

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```

-001- 01 #   FAILTST
-001- 02 #   FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLRF.
-001- 03 #   DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020534 01 000321 020017 ----- CDGNM -001- 04 #   VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0020535 01 000322 000061 ----- -001- 05 #   VFD 16,FLRF

0020536                                07                                # THERE SHOULD BE NO OFF-LINE INITIALIZ
                                                ATION

-001- 09 #   NO3 CODE
-001- 10 #   PROCESS 3ACC CODED ROUTINE AT ADDRESS TSTOFF1.
0020536 01 000323 040043 000000 CDGNM -001- 11 #   VFD 1,0 2,2 7,0 6,NN03CD
0020537 01 000324 000000 021033 0021033 -001- 12 #   ADDR TSTOFF1

0020541                                14 OFFT1

-001- 15 #   COMPARE
-001- 16 #   COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO INITTSTC.
-001- 17 #   IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020541 01 000326 050014 000000 CDGNM -001- 18 #   VFD 1,LPINDX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
0020542 01 000327 000000 121334 CINIT -001- 19 #   ADDR INITTSTC

-001- 21 #   FAILTST
-001- 22 #   FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS INITBD.
-001- 23 #   DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020544 01 000331 020017 ----- CDGNM -001- 24 #   VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0020545 01 000332 000062 ----- -001- 25 #   VFD 16,INITBD

-001- 27 #   LP_END
-001- 28 #   TERMINATE LOOP.
0020546 01 000333 040002 000000 CDGNM -001- 29 #   VFD 1,0 2,2 7,0 6,NLP_END
0020547 01 000334 000000 020447 0020447 -001- 30 #   ADDR LPSTART

0020551                                32                                # TRY ERROR BITS 12&13

-001- 33 #   LP_BEGIN
-001- 34 #   BEGIN 2 LOOPS.
0020551 01 000336 000201 ----- CDGNM -001- 35 #   ERSRMR VFD 1,0 2,0 7,D(2) 6,NBEGIN

-001- 37 #   CALLPROS
-001- 38 #   RETURN TO CALL PROCESSING FOR ONE BASE LEVEL LOOP.
0020552 01 000337 000004 ----- CDGNM -001- 39 #   VFD 1,0 2,0 6,0 1,0 6,NPROS

-001- 41 #   ZERO_ER
-001- 42 #   ZERO THE OFF-LINE ER.
0020553 01 000340 000012 ----- CDGNM -001- 43 #   VFD 1,0 2,0 7,0 6,NZERO_ER

-001- 45 #   NO3 CODE
-001- 46 #   PROCESS 3ACC CODED ROUTINE AT ADDRESS TSTMRF2.
0020554 01 000341 040043 000000 CDGNM -001- 47 #   VFD 1,0 2,2 7,0 6,NN03CD
0020555 01 000342 000000 021015 0021015 -001- 48 #   ADDR TSTMRF2

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SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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TEST 75 SEGMENT 5

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SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS

W77D

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0020557      .
                                01 ERMID
                                -001- 02 # SEND
                                -001- 03 # SEND CONSTANTS TO OFF-LINE MCHB.
                                -001- 04 # PARITY IS NORMAL.
0020557 01 000344 147706 ----- CDGNM  -001- 05 VFD 1,1 2,2 7,B(0111111) 6,NSEND
0020560 01 000345 000000 010000         -001- 06 ADDR 0(0010000) # LOOP 1
0020562 01 000347 000000 020000         -001- 07 ADDR 0(0020000) # LOOP 2

                                -001- 09 # MICRO
                                -001- 10 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
                                -001- 11 # TO FIELD = ROXT FROM FIELD = MCHBZF
0020564 01 000351 020005 ----- CDGNM  -001- 12 VFD 1,0 2,1 7,0 6,NMICRO
0020565 01 000352 051631 -----         -001- 13 VFD 8,ROXT 8,MCHBZF

                                -001- 15 # ADD OFF
                                -001- 16 # START OFF-LINE PROCESSOR AT ADDRESS LDERBT.
0020566 01 000353 040022 000000 CDGNM  -001- 17 VFD 1,0 2,2 7,0 6,NADD_OFF
0020567 01 000354 000000 021226 CDGNOF -001- 18 ADDR LDERBT

0020571      20 # OFF-LINE CODE WHICH WILL CLEAR BHC,
                                # IDLE THE MAINTENANCE CHANNEL SWITCH
                                # SEQUENCER, GATE RO INTO THE ER, AND HAL
                                # SET BHC

0020571      23
                                -001- 24 # STOP OFF
                                -001- 25 # SET STOP BIT IN OFF-LINE CU.
0020571 01 000356 017627 ----- CDGNM  -001- 26 VFD 1,0 2,0 7,B(1111110) 6,NSTOP

                                -001- 28 # NO3_CODE
                                -001- 29 # PROCESS 3ACC CODED ROUTINE AT ADDRESS TSTOFF2.
0020572 01 000357 040043 000000 CDGNM  -001- 30 VFD 1,0 2,2 7,0 6,NNO3CD
0020573 01 000360 000000 021042 0021042 -001- 31 ADDR TSTOFF2

0020575      33 OFF2
0020575      34 # LEAVE ON-LINE PROCESSOR IN NORMAL
                                # STATE

                                -001- 36 # NO3_CODE
                                -001- 37 # PROCESS 3ACC CODED ROUTINE AT ADDRESS CLEANON1.
0020575 01 000362 040043 000000 CDGNM  -001- 38 VFD 1,0 2,2 7,0 6,NNO3CD
0020576 01 000363 000000 021051 0021051 -001- 39 ADDR CLEANON1

0020600      41 LFOFF
                                -001- 42 # COMPARE
                                -001- 43 # COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(0000000).
                                -001- 44 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020600 01 000365 050014 ----- CDGNM  -001- 45 VFD 1,LPINDX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
0020601 01 000366 000000 000000         -001- 46 ADDR 0(0000000)

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 23

TEST 75 SEGMENT 5

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SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS

W77D

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-001- 01 # FAILTST
-001- 02 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLSMRF.
-001- 03 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020603 01 000370 020017 ----- CDGNM -001- 04 # VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0020604 01 000371 000063 ----- -001- 05 # VFD 16,FLSMRF

-001- 07 # LP_END
-001- 08 # TERMINATE LOOP.
0020605 01 000372 040002 000000 CDGNM -001- 09 # VFD 1,0 2,2 7,0 6,NLP_END
0020606 01 000373 000000 020551 0020551 -001- 10 # ADDR LPSTART

12 # TRY ERROR BITS 11, 14-19,PL AND PH
-001- 13 # LP_BEGIN
-001- 14 # BEGIN 7 LOOPS.
0020610 01 000375 000701 ----- CDGNM -001- 15 # ERINTLP VFD 1,0 2,0 7,D(7) 6,NBEGIN

-001- 17 # CALLPROS
-001- 18 # RETURN TO CALL PROCESSING FOR ONE BASE LEVEL LOOP.
0020611 01 000376 000004 ----- CDGNM -001- 19 # VFD 1,0 2,0 6,0 1,0 6,NPROS

-001- 21 # MICRO
-001- 22 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 23 # MISCELLANEOUS CROSSPOINT SBRX
0020612 01 000377 020005 ----- CDGNM -001- 24 # VFD 1,0 2,1 7,0 6,NMICRO
0020613 01 000400 023712 ----- -001- 25 # VFD 16,SBRX

-001- 27 # ZERO_ER
-001- 28 # ZERO THE OFF-LINE ER.
0020614 01 000401 000012 ----- CDGNM -001- 29 # VFD 1,0 2,0 7,0 6,NZERO_ER

-001- 31 # MICRO
-001- 32 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 33 # TO FIELD = IS_RXT FROM FIELD = BRXF
0020615 01 000402 020005 ----- CDGNM -001- 34 # VFD 1,0 2,1 7,0 6,NMICRO
0020616 01 000403 033342 ----- -001- 35 # VFD 8,IS_RXT 8,BRXF

-001- 37 # SEND
-001- 38 # SEND CONSTANTS TO OFF-LINE MCHB.
-001- 39 # PARITY IS 0(0).
0020617 01 000404 147707 ----- CDGNM -001- 40 # VFD 1,1 2,2 7,B(0111111) 6,NZSEND
0020620 01 000405 000000 004000 -001- 41 # ADDR 0(0004000),0(0) # LOOP 1
0020622 01 000407 000000 040000 -001- 42 # ADDR 0(0004000),0(0) # LOOP 2
0020624 01 000411 000000 100000 -001- 43 # ADDR 0(0100000),0(0) # LOOP 3
0020626 01 000413 000001 000000 -001- 44 # ADDR 0(0200000),0(0) # LOOP 4
0020630 01 000415 000002 000000 -001- 45 # ADDR 0(0400000),0(0) # LOOP 5
0020632 01 000417 000004 000000 -001- 46 # ADDR 0(1000000),0(0) # LOOP 6
0020634 01 000421 000010 000000 -001- 47 # ADDR 0(2000000),0(0) # LOOP 7

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SYS STATUS BITS,SWITCHING,AND SYS STATUS PANEL TESTS

PR-10932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 24

TEST 75 SEGMENT 5

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS W770

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-001- 01 # MICRO
-001- 02 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 03 # TO FIELD = ERXT FROM FIELD = MCHBXF
0020636 01 000423 020005 ----- CD6NM -001- 04 VFD 1,0 2,1 7,0 6,NMICRO
0020637 01 000424 125231 ----- -001- 05 VFD 8,ERXT 8,MCHBXF

-001- 07 # MICRO
-001- 08 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 09 # TO FIELD = MCHBXT FROM FIELD = ISXF
0020640 01 000425 020005 ----- CD6NM -001- 10 VFD 1,0 2,1 7,0 6,NMICRO
0020641 01 000426 114613 ----- -001- 11 VFD 8,MCHBXT 8,ISXF

-001- 13 # RETRN
-001- 14 # RETURN OFF-LINE MCHB TO ON-LINE MCHB.
0020642 01 000427 007710 ----- CD6NM -001- 15 VFD 1,0 2,0 7,8(0111111) 6,NRETRN

-001- 17 # COMPARE
-001- 18 # COMPARE ON-LINE MCHB BIT S(ERRI) TO 1.
-001- 19 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020643 01 000430 020514 ----- CD6NM -001- 20 VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(ERRI) 6,NCOMPARE
0020644 01 000431 000001 ----- -001- 21 VFD 15,0 1,1

-001- 23 # FAILTST
-001- 24 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLINT.
-001- 25 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020645 01 000432 020017 ----- CD6NM -001- 26 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0020646 01 000433 000064 ----- -001- 27 VFD 16,FLINT

-001- 29 # LP END
-001- 30 # TERMINATE LOOP.
0020647 01 000434 040002 000000 CD6NM -001- 31 VFD 1,0 2,2 7,0 6,NLP_END
0020650 01 000435 000000 020610 0020610 -001- 32 ADDR LPSTART

0020652 34 # CHECK THAT BITS 12 AND 16 OF THE
# ERROR REGISTER "MFSTH" AND "OFSTH" CAN
# BE SET BY THE ACTUAL FAST TIMEOUT
# CIRCUITRY . THE ACTUAL SETTING AND
# CLEARING AND THE EFFECTS OF THESE BITS
# BEING SET HAS ALREADY BEEN CHECKED FROM
# THE GATING BUS SO THIS JUST CHECKS TO
# SEE IF THESE BITS CAN BE SET BY THE
# NORMAL PATH. NO CHECK IS MADE TO
# DETERMINE THE TYPE OF MRF.

-001- 44 # STOP OFF
-001- 45 # SET STOP BIT IN OFF-LINE CU.
0020652 01 000437 017627 ----- CD6NM -001- 46 VFD 1,0 2,0 7,8(1111110) 6,NSTOP

```

SYS STATUS BITS,SWITCHING,AND SYS STATUS PANEL TESTS

PR-10932-50

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TEST 75 SEGMENT 5

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS W77D

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0020653      ,      01      # SET IDLE BITS IN MMS TO TEST
                                CONTROLLER 0
                                -001- 03 # SEND
                                -001- 04 # SEND 0(0030200) TO OFF-LINE DUPLICATE B REGISTERS.
                                -001- 05 # PARITY IS NORMAL.
0020653 01 000440 056706 ----- CD6NM -001- 06 # VFD 1,0 2,2 7,B(1110111) 6,NSEND
0020654 01 000441 000000 030200 -001- 07 # ADDR 0(0030200)

                                -001- 09 # MICRO
                                -001- 10 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
                                -001- 11 # MISCELLANEOUS CROSSPOINT BRXMSX
0020656 01 000443 020005 ----- CD6NM -001- 12 # VFD 1,0 2,1 7,0 6,NMICRO
0020657 01 000444 145312 ----- -001- 13 # VFD 16,BRXMSX

                                -001- 15 # MICRO
                                -001- 16 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
                                -001- 17 # MISCELLANEOUS CROSSPOINT ZDRX
0020660 01 000445 020005 ----- CD6NM -001- 18 # VFD 1,0 2,1 7,0 6,NMICRO
0020661 01 000446 015472 ----- -001- 19 # VFD 16,ZDRX

0020662      21      # THE FAST TIMEOUT CIRCUITRY MAY TAKE
                                UP TO 60 MICROSECONDS TO TIME OUT.
                                -001- 23 # TIMETST
                                -001- 24 # ALLOW OFF-LINE TO RUN FOR 60 MICROSECONDS WHILE ON-LINE WAITS.
0020662 01 000447 020003 ----- CD6NM -001- 25 # VFD 1,0 2,1 7,0 6,NTMTEST
0020663 01 000450 000030 ----- -001- 26 # VFD 16,LPNUM

                                -001- 28 # RETRN
                                -001- 29 # RETURN OFF-LINE ER TO ON-LINE MCHB.
0020664 01 000451 013710 ----- CD6NM -001- 30 # VFD 1,0 2,0 7,B(1011111) 6,NRETRN

                                -001- 32 # COMPARE
                                -001- 33 # COMPARE ON-LINE MCHB BIT S(MFSTM) TO 1.
                                -001- 34 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020665 01 000452 021414 ----- CD6NM -001- 35 # VFD 1,LPINDX 2,1 1,0 1,SUCCES 5,S(MFSTM) 6,NCOMPARE
0020666 01 000453 000001 ----- -001- 36 # VFD 15,0 1,1

                                -001- 38 # FAILTST
                                -001- 39 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLMFTM.
                                -001- 40 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020667 01 000454 020017 ----- CD6NM -001- 41 # VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0020670 01 000455 000067 ----- -001- 42 # VFD 16,FLMFTM

                                -001- 44 # ZERO_ER
                                -001- 45 # ZERO THE OFF-LINE ER.
0020671 01 000456 000012 ----- CD6NM -001- 46 # VFD 1,0 2,0 7,0 6,NZERO_ER

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SYS STATUS BITS,SWITCHING,AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 26

TEST 75 SEGMENT 5

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS W77D

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0020672          01          # SET IDLE BITS IN MMS TO TEST
                                CONTROLLER 1
-001- 03 # SEND
-001- 04 # SEND 0(0030100) TO OFF-LINE DUPLICATE B REGISTERS.
-001- 05 # PARITY IS NORMAL.
0020672 01 000457 056706 ----- CDGNM -001- 06 VFD 1,0 2,2 7,B(1110111) 6,NSEND
0020673 01 000460 000000 030100 -001- 07 ADDR 0(0030100)

-001- 09 # MICRO
-001- 10 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 11 # MISCELLANEOUS CROSSPOINT ZDRX
0020675 01 000462 020005 ----- CDGNM -001- 12 VFD 1,0 2,1 7,0 6,NMICRO
0020676 01 000463 015472 ----- -001- 13 VFD 16,ZDRX

-001- 15 # MICRO
-001- 16 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 17 # MISCELLANEOUS CROSSPOINT BRXMSX
0020677 01 000464 020005 ----- CDGNM -001- 18 VFD 1,0 2,1 7,0 6,NMICRO
0020700 01 000465 145312 ----- -001- 19 VFD 16,BRXMSX

-001- 21 # TIMETST
-001- 22 # ALLOW OFF-LINE TO RUN FOR 60 MICROSECONDS WHILE ON-LINE WAITS.
0020701 01 000466 020003 ----- CDGNM -001- 23 VFD 1,0 2,1 7,0 6,NTMTEST
0020702 01 000467 000030 ----- -001- 24 VFD 16,LPNUM

-001- 26 # RETRN
-001- 27 # RETURN OFF-LINE ER TO ON-LINE MCHB.
0020703 01 000470 013710 ----- CDGNM -001- 28 VFD 1,0 2,0 7,B(1011111) 6,NRETRN

-001- 30 # COMPARE
-001- 31 # COMPARE ON-LINE MCHB BIT S(OFTM) TO 1.
-001- 32 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020704 01 000471 022014 ----- CDGNM -001- 33 VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(OFTM) 6,NCOMPARE
0020705 01 000472 000001 ----- -001- 34 VFD 15,0 1,1

-001- 36 # FAILTST
-001- 37 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLOFTM.
-001- 38 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020706 01 000473 020017 ----- CDGNM -001- 39 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0020707 01 000474 000070 ----- -001- 40 VFD 16,FLOFTM

```

SYS STATUS BITS,SWITCHING,AND SYS STATUS PANEL TESTS

PR-1C932-50

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TEST 75 SEGMENT 6

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS W77D

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-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 75 SEGMENT 6
-001- 04 # *
-001- 05 # *****

0020710 01 000475 000600 ----- CDGNM -001- 08 VFD 1,0 2,0 2,0 5,D(6) 6,NTESTSEG

11 # THE BLOCK HARDWARE CHECK BIT IN THE SS REGISTER
12 # SHOULD PREVENT ERROR BITS 0-9 FROM CAUSING A STOP
13 # AND SWITCH AND PREVENT ERROR BITS 10-13 FROM CAUSING
14 # AN INITIALIZATION

-001- 16 # CALLPROS
-001- 17 # RETURN TO CALL PROCESSING FOR ONE BASE LEVEL LOOP.
0020711 01 000476 000004 ----- CDGNM -001- 18 VFD 1,0 2,0 6,0 1,0 6,NPROS

0020712 20 # SET BHC IN OFF-LINE PROCESSOR
-001- 21 # MICRO
-001- 22 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 23 # TO FIELD = SS_SXT FROM FIELD = R2XF
0020712 01 000477 020005 ----- CDGNM -001- 24 VFD 1,0 2,1 7,0 6,NMICRO
0020713 01 000500 105526 ----- -001- 25 VFD 8,SS_SXT 8,R2XF

-001- 27 # ZERO_ER
-001- 28 # ZERO THE OFF-LINE ER.
0020714 01 000501 000012 ----- CDGNM -001- 29 VFD 1,0 2,0 7,0 6,NZERO_ER

-001- 31 # NO3_CODE
-001- 32 # PROCESS 3ACC CODED ROUTINE AT ADDRESS INITBHC.
0020715 01 000502 040043 000000 CDGNM -001- 33 VFD 1,0 2,2 7,0 6,NN03CD
0020716 01 000503 000000 021076 0021076 -001- 34 ADDR INITBHC

0020720 36 TRYBHC
-001- 37 # SEND
-001- 38 # SEND 0(0037777) TO OFF-LINE MCHB.
-001- 39 # PARITY IS 0(0).
0020720 01 000505 047707 ----- CDGNM -001- 40 VFD 1,0 2,2 7,B(0111111) 6,N2SEND
0020721 01 000506 000000 037777 -001- 41 ADDR 0(0037777),0(0)

0020723 43 # SET OFF-LINE ERROR BITS
-001- 44 # MICRO
-001- 45 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 46 # TO FIELD = ERXT FROM FIELD = MCHBXF
0020723 01 000510 020005 ----- CDGNM -001- 47 VFD 1,0 2,1 7,0 6,NMICRO
0020724 01 000511 125231 ----- -001- 48 VFD 8,ERXT 8,MCHBXF

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SYS STATUS BITS,SWITCHING,AND SYS STATUS PANEL TESTS

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TEST 75 SEGMENT 6

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SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS W77D

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-001- 01 # NO3_CODE
0020725 01 000512 040043 000000 CDGNM -001- 02 # PROCESS 3ACC CODED ROUTINE AT ADDRESS CHKERRI.
0020726 01 000513 000000 021067 0021067 -001- 03 # VFD 1,0 2,2 7,0 6,NNO3CD
-001- 04 # ADDR CHKERRI

0020730 06 SWTCHER
-001- 07 # COMPARE
-001- 08 # COMPARE ON-LINE MCHB BIT 0 TO 0.
0020730 01 000515 020014 ----- CDGNM -001- 09 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020731 01 000516 000000 ----- -001- 10 # VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,0 6,NCOMPARE
-001- 11 # VFD 15,0 1,0

-001- 13 # FAILTST
-001- 14 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLBHCSW.
0020732 01 000517 020017 ----- CDGNM -001- 15 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020733 01 000520 000065 ----- -001- 16 # VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 17 # VFD 16,FLBHCSW

-001- 19 # NO3_CODE
0020734 01 000521 040043 000000 CDGNM -001- 20 # PROCESS 3ACC CODED ROUTINE AT ADDRESS CHKCNTL.
0020735 01 000522 000000 021060 0021060 -001- 21 # VFD 1,0 2,2 7,0 6,NNO3CD
-001- 22 # ADDR CHKCNTL

0020737 24 CHKIT
-001- 25 # COMPARE
-001- 26 # COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO INITTSTC.
0020737 01 000524 050014 000000 CDGNM -001- 27 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0020740 01 000525 000000 121334 CINIT -001- 28 # VFD 1,LPINDX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
-001- 29 # ADDR INITTSTC

-001- 31 # FAILTST
-001- 32 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLBHCSMF.
0020742 01 000527 020017 ----- CDGNM -001- 33 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0020743 01 000530 000066 ----- -001- 34 # VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 35 # VFD 16,FLBHCSMF

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-10932-50

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SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS W77D

0020744 01 000531 000021 103401 CDGNM    -001- 01 #    PASSTST  
   -001- 02 #    GO TO DIAGNOSTIC MONITOR PASS BRANCH.  
   -001- 03    VFD    1,0 2,0 7,0 6,NPASSTST

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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## SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS W770

01 # 3A CC CODE FOR SEGMENT 4

03 # THE FOLLOWING ROUTINE SETS UP OFF-LINE STORE WORDS  
 04 # INITTET1 AND INITTST2 TO CONSTANT INITTSTC SO THAT AN INITIALIZATION  
 05 # WILL TAKE A TEST BRANCH

0020745					07 MRFINIT	
0020745					08 BEGIN ( )	
0020745	01	000532	103401	121334	09 LI RO,INITTSTC	
0020747	01	000534	031420	043000	10 LAL R1,INITTST1,RA1	
0020751					11 STOS O(RA1)	
E0020751	D1	000536	000420	-----	-001- 12 MSTF O(RA1)	
0020752	01	000537	136100	-----	-001- 13 DATA B(1011110001000000)	
0020753	01	000540	031420	043350	14 LAL R1,INITTST2,RA1	
0020755					15 STOS O(RA1)	
E0020755	D1	000542	000420	-----	-001- 16 MSTF O(RA1)	
0020756	01	000543	136100	-----	-001- 17 DATA B(1011110001000000)	
0020757					18 RTN_TBL INITRDY	
0020757	01	000544	071400	-----	-001- 19 GA	
0020760	01	000545	031000	020423	0020423	-001- 20 LAL RO,INITRDY,RA0
0020762	01	000547	037000	011162	CDGNM	-001- 21 BL INTRPN03

0020764

24 SWMSG

25 # THE FOLLOWING CODE SENDS A SWITCH MESSAGE OVER THE  
 26 # MAINTENANCE CHANNEL TO THE OFF-LINE CU

0020764					28 MIMODE IDSWQ	# IDLE MRF SWITCH SEQUENCER
0020764	01	000551	113000	-----	-001- 29 MIS O	
0020765	01	000552	026712	-----	-002- 30 DATA IDSWQX	
0020766					31 LMCHF SWITCH	
0020766	01	000553	013017	-----	-002- 32 MIS SWITCH	
0020767	01	000554	160706	037020	-003- 33 VFD 8,MCHCXT 8,IBXF	
0020770					-001- 34 CALL SMCHF	
0020770	01	000555	037020	011077	CDGNM	-002- 35 BSA SMCHF
0020772					36 RTN_TBL SWDONE	
0020772	01	000557	171400	-----	-001- 37 GA	
0020773	01	000560	031000	020426	0020426	-001- 38 LAL RO,SWDONE,RA0
0020775	01	000562	037000	011162	CDGNM	-001- 39 BL INTRPN03

0020777					41 CHKTST1	
0020777					42 CALL CHKOFF	
0020777	01	000564	137020	021147	0021147	-001- 43 BSA CHKOFF
0021001					44 RTN_TBL CKTST1DN	
0021001	01	000566	171400	-----	-001- 45 GA	
0021002	01	000567	031000	020441	0020441	-001- 46 LAL RO,CKTST1DN,RA0
0021004	01	000571	037000	011162	CDGNM	-001- 47 BL INTRPN03

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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## SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS

W77D

## 06 # 3A CC CODE FOR SEGMENT 5

09 # THE FOLLOWING ROUTINES SET UP TWO TEST CONSTANTS IN OFF-LINE STORE  
 10 # SUCH THAT THE INITIALIZATION PROGRAM WILL TAKE A TEST BRANCH.  
 11 # ALSO THE INTERRUPT BIT "ERRI" IS MASKED IN THE ON-LINE SO THAT  
 12 # A STOP AND SWITCH MESSAGE OR A RESET PROGRAM TIMER MESSAGE RECEIVED  
 13 # BY THE ON-LINE PROCESSOR CAN BE DETECTED BY THE DIAGNOSTIC.  
 14 # THE ON-LINE ERROR REGISTER AND INTERRUPT BIT "ERRI" ARE ALSO CLEARED.

0021006						16	TSTMRF1		
0021006						17	CALL	INITMF	
0021006	01	000573	137020	021105	0021105	-001-	18	BSA	INITMF
0021010							19	RTN_TBL	ERLOW
0021010	01	000575	171400	-----		-001-	20	GA	
0021011	01	000576	031000	020466	0020466	-001-	21	LAL	RD,ERLOW,RAO
0021013	01	000600	037000	011162	CDGNM	-001-	22	BL	INTRPNO3

0021015						25	TSTMRF2		
0021015						26	CALL	INITMF	
0021015	01	000602	137020	021105	0021105	-001-	27	BSA	INITMF
0021017							28	RTN_TBL	ERMID
0021017	01	000604	171400	-----		-001-	29	GA	
0021020	01	000605	031000	020557	0020557	-001-	30	LAL	RD,ERMID,RAO
0021022	01	000607	037000	011162	CDGNM	-001-	31	BL	INTRPNO3

35 # THE FOLLOWING ROUTINE PUTS THE CONTENT OF ON-LINE INTERRUPT BIT  
 36 # "ERRI" INTO THE ON-LINE MCHB BIT 0

0021024						38	TSTON1		
0021024						39	CALL	CHKON	
0021024	01	000611	137020	021204	0021204	-001-	40	BSA	CHKON
0021026							41	RTN_TBL	ONT1
0021026	01	000613	171400	-----		-001-	42	GA	
0021027	01	000614	031000	020532	0020532	-001-	43	LAL	RD,ONT1,RAO
0021031	01	000616	037000	011162	CDGNM	-001-	44	BL	INTRPNO3

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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## SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS W77D

03 # THE FOLLOWING ROUTINES PUT THE CONTENT OF OFF-LINE STORE WORD  
 04 # "INITTST1" INTO THE ON-LINE MCHB

0021033						06	TSTOFF1		
0021033						07	CALL	CHKOFF	
0021033	01	000620	137020	021147	0021147	-001-	08	BSA	CHKOFF
0021035							09	RTN_TBL	OFFT1
0021035	01	000622	171400	-----		-001-	10	GA	
0021036	01	000623	031000	020541	0020541	-001-	11	LAL	RD,OFFT1,RAO
0021040	01	000625	037000	011162	CDGNN	-001-	12	BL	INTRPN03

0021042						15	TSTOFF2		
0021042						16	CALL	CHKOFF	
0021042	01	000627	137020	021147	0021147	-001-	17	BSA	CHKOFF
0021044							18	RTN_TBL	OFF2
0021044	01	000631	171400	-----		-001-	19	GA	
0021045	01	000632	031000	020575	0020575	-001-	20	LAL	RD,OFF2,RAO
0021047	01	000634	037000	011162	CDGNN	-001-	21	BL	INTRPN03

24 # THE FOLLOWING ROUTINE CLEANS UP THE ON-LINE ER, IM, AND INTERRUPT "ERRI"

0021051						26	CLEAN01		
0021051						27	CALL	CLEAN01	
0021051	01	000636	137020	021212	0021212	-001-	28	BSA	CLEAN01
0021053							29	RTN_TBL	LFOFF
0021053	01	000640	171400	-----		-001-	30	GA	
0021054	01	000641	031000	020600	0020600	-001-	31	LAL	RD,LFOFF,RAO
0021056	01	000643	037000	011162	CDGNN	-001-	32	BL	INTRPN03

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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## SYSTEM\_STATES\_PT\_1 DIAGNOSTIC TEST

CSTATS

W77D

```

01 # 3A CC CODE FOR SEGMENT 6
03 # THE FOLLOWING ROUTINE PUTS THE CONTENT OF OFF-LINE STORE WORD
04 # "INITTST1" INTO THE ON-LINE MCHB

0021060
0021060 01 000645 137020 021147 0021147 -001-
0021062 01 000647 171400 ----- -001-
0021063 01 000650 031000 020737 0020737 -001-
0021065 01 000652 037000 011162 CDGNM -001-

06 CHKCNTL
07 CALL CHKOFF
08 BSA CHKOFF
09 RTN_TBL CHKIT
10 GA
11 LAL RD,CHKIT,RAO
12 BL INTRPN03

15 # THE FOLLOWING ROUTINE PUTS THE CONTENT OF ON-LINE INTERRUPT BIT
16 # "ERRI" INTO THE ON-LINE MCHB BIT 0

0021067
0021067 01 000654 137020 021204 0021204 -001-
0021071 01 000656 171400 ----- -001-
0021072 01 000657 031000 020730 0020730 -001-
0021074 01 000661 037000 011162 CDGNM -001-

18 CHKERRI
19 CALL CHKON
20 BSA CHKON
21 RTN_TBL SWITCHER
22 GA
23 LAL RD,SWITCHER,RAO
24 BL INTRPN03

27 # THE FOLLOWING ROUTINE SETS UP TWO TEST CONSTANTS IN OFF-LINE STORE
28 # SUCH THAT THE INITIALIZATION PROGRAM WILL TAKE A TEST BRANCH.
29 # ALSO THE INTERRUPT BIT "ERRI" IS MASKED IN THE ON-LINE SO THAT
30 # A STOP AND SWITCH MESSAGE OR A RESET PROGRAM TIMER MESSAGE RECEIVED
31 # BY THE ON-LINE PROCESSOR CAN BE DETECTED BY THE DIAGNOSTIC.
32 # THE ON-LINE ERROR REGISTER AND INTERRUPT BIT "ERRI" ARE ALSO CLEARED.

0021076
0021076 01 000663 137020 021105 0021105 -001-
0021100 01 000665 171400 ----- -001-
0021101 01 000666 031000 020720 0020720 -001-
0021103 01 000670 037000 011162 CDGNM -001-

35 INITBHC
36 CALL INITMF
37 BSA INITMF
38 RTN_TBL TRYBHC
39 GA
40 LAL RD,TRYBHC,RAO
41 BL INTRPN03

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

TEST 76

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS W77D

```

-001- 01 # *****
-001- 02 # *****
-001- 03 # **
-001- 04 # ** CU DIAGNOSTIC TEST NO. 76, SYSTEM_STATES_PT_2
-001- 05 # **
-001- 06 # *****
-001- 07 # *****

```

0021242

-001- 10 CSTATUS2 CSECT

-001- 13 # THIS TEST USES OFF-LINE CODE AT CSECT OSTATUS2

```

0021242 02 000000 004345 001000 CDGNM
0021243 02 000001 001000 022136 EXTERN

```

```

-001- 17 VFD 1,0 2,0 2,1 2,0 3,3 6,NBGN
-001- 18 ADDR OSTATUS2,XSTATUS2

```

```

23 # SEGMENT 1
24 # THE PROGRAM TIMER HAS TWO TIMEOUTS. THE FIRST SHOULD
25 # CAUSE A MAINTENANCE CHANNEL SWITCH MESSAGE IF THE CC
26 # FLOP=1 AND SHOULD CAUSE AN INITIALIZATION IF CC=0.
27 # THE SECOND SHOULD CAUSE AN INITIALIZATION INDEPENDENT OF
28 # THE CC FLOP. THE BTC FLOP IN THE SS SHOULD INHIBIT ALL OF
29 # THESE FUNCTIONS

```

```

31 # SEGMENT 2
32 # WHEN THE CC FLOP IS SET, MAINTENANCE CHANNEL
33 # ORDERS "MSTART", "MSTOP", AND "LDMAR" SHOULD BE BLOCKED.
34 # ALSO THE "CLPT" ORDER SHOULD RESULT IN SETTING ERROR
35 # BIT "PTRER" AND THE "SWITCH" ORDER SHOULD RESULT
36 # IN SETTING ERROR BIT "SWER"

```

```

38 # SEGMENT 3
39 # THE BRANCH ALLOWED ERROR CHECK IS TESTED
40 # FUNCTIONALLY WITH TWO PIECES OF OFF-LINE CODE,
41 # ONE CONTAINING THE CORRECT BA BIT AND THE OTHER
42 # MISSING A BA BIT.

```

```

44 # SEGMENT 4
45 # THIS TEST WILL ADDRESS THE OFF LINE AT IOERROR WHICH IS THE STARTING ADDRESS
46 # OF A SEQUENCE WHICH USES TWO AUXILIARY CONTROL 2/4 DECODER STATES. THE TWO
47 # STATES TESTED ARE "TURN OFF BUS PARITY CHECK" B(1010) AND "I/O DML MATCH
48 # DIVERT" B(1100). BOTH OF THESE AUXILIARY CONTROL FUNCTIONS ARE TESTED
49 # FUNCTIONALLY BY OFF LINE CODE WHICH CONTAINS AN "SIO" COMMAND. THE ERROR

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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TEST 76

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS W77D

01 # REGISTER IS SAVED IN THE AK REGISTER AND EXAMINED BY THIS TEST FOR THE  
02 # FOLLOWING CONDITIONS GBUS=ZERO, DML=ZERO, IO=ONE. BIT "BPC"  
03 # IS CLEARED IN THE OFF LINE CODE TO ENABLE BUS PARITY CHECK.

05 # SEGMENT 5  
06 # THE OFF-LINE SANITY TEST IS RUN. IF THE CU HAS  
07 # PASSED DIAGNOSTICS UP TO THIS POINT, IT SHOULD BE CAPABLE  
08 # OF RUNNING THIS TEST CORRECTLY WITHOUT FIRING ANY ERROR  
09 # CIRCUITS.

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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TEST 76 SEGMENT 1

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS W770

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 76 SEGMENT 1
-001- 04 # *
-001- 05 # *****
    
```

0021245 02 000003 000100 ----- CDGNM -001- 08 VFD 1,0 2,0 2,0 5,D(1) 6,NTESTSEG

```

11 # THE PROGRAM TIMER HAS TWO TIMEOUTS. THE FIRST SHOULD
12 # CAUSE A MAINTENANCE CHANNEL SWITCH MESSAGE IF THE CC
13 # FLOP=1 AND SHOULD CAUSE AN INITIALIZATION IF CC=0.
14 # THE SECOND SHOULD CAUSE AN INITIALIZATION INDEPENDENT OF
15 # THE CC FLOP. THE BTC FLOP IN THE SS SHOULD INHIBIT ALL OF
16 # THESE FUNCTIONS
    
```

0021246 02 000004 000004 ----- CDGNM -001- 18 # CALLPROS  
 -001- 19 # RETURN TO CALL PROCESSING FOR ONE BASE LEVEL LOOP.  
 -001- 20 VFD 1,0 2,0 6,0 1,0 6,NPROS

0021247 02 000005 000144 ----- CDGNM -001- 22 # RTN BLM  
 -001- 23 # TURN OFF AUTOMATIC RETURNS TO BLM EVERY 20 TABLE ENTRIES.  
 -001- 24 VFD 1,0 2,0 6,0 1,1 6,NRTNBLM

0021250 26 # TEST BTC BIT

0021250 02 000006 020005 ----- CDGNM -001- 28 # MICRO  
 0021251 02 000007 026712 ----- -001- 29 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.  
 -001- 30 # MISCELLANEOUS CROSSPOINT IDSWQX  
 -001- 31 VFD 1,0 2,1 7,0 6,NMICRO  
 -001- 32 VFD 16,IDSQX

0021252 34 # SET UP ON-LINE CONDITIONS SO THAT A  
 STOP AND SWITCH SIGNAL RECEIVED BY THE  
 ON-LINE CAN BE DETECTED BY THE DIAGNOST  
 C TEST AND SET UP OFF-LINE CONDITIONS SO  
 THAT AN INITIALIZATION IN THE OFF-LINE  
 CAN BE DETECTED.

0021252 02 000010 040043 000000 CDGNM -001- 40 # NO3 CODE  
 0021253 02 000011 000000 021754 0021754 -001- 41 # PROCESS 3ACC CODED ROUTINE AT ADDRESS INITMRF1.  
 -001- 42 VFD 1,0 2,2 7,0 6,NNO3CD  
 -001- 43 ADDR INITMRF1

0021255 45 PT1S  
 -001- 46 # SEND  
 -001- 47 # SEND 0(0000010) TO OFF-LINE MCHD.  
 0021255 02 000013 047706 ----- CDGNM -001- 48 # PARITY IS NORMAL.  
 -001- 49 VFD 1,0 2,2 7,B(0111111) 6,NSEND

SYS STATUS BITS,SWITCHING,AND SYS STATUS PANEL TESTS

PR-1C932-50

TEST 76 SEGMENT 1

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## SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS

W77D

```

0021256 02 000014 000000 000010      -001- 01      ADDR      0(0000010)
0021260                                03                                # SET BTC IN OFF-LINE
-001- 04 #      MICRO
-001- 05 #      PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 06 #      TO FIELD = SS_SXT FROM FIELD = MCHBXF
0021260 02 000016 020005 ----- CDGNM -001- 07      VFD      1,0 2,1 7,0 6,NMICRO
0021261 02 000017 105631 ----- -001- 08      VFD      8,SS_SXT 8,MCHBXF

-001- 10 #      MICRO
-001- 11 #      PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 12 #      MISCELLANEOUS CROSSPOINT SBRX
0021262 02 000020 020005 ----- CDGNM -001- 13      VFD      1,0 2,1 7,0 6,NMICRO
0021263 02 000021 023712 ----- -001- 14      VFD      16,SBRX

0021264                                16                                # OFF-LINE CODE WILL WAIT FOR MAINTENAN
CE CHANNEL TO COMPLETE, GATE THE BR TO
THE TI, AND FINALLY ZERO THE TI.

-001- 19 #      ADD_OFF
-001- 20 #      START OFF-LINE PROCESSOR AT ADDRESS LDTI.
0021264 02 000022 040022 000000 CDGNM -001- 21      VFD      1,0 2,2 7,0 6,NADD_OFF
0021265 02 000023 000000 022136 CDGNOF -001- 22      ADDR      LDTI

-001- 24 #      NO3_CODE
-001- 25 #      PROCESS 3ACC CODED ROUTINE AT ADDRESS CHKON1.
0021267 02 000025 040043 000000 CDGNM -001- 26      VFD      1,0 2,2 7,0 6,NNO3CD
0021270 02 000026 000000 022010 0022010 -001- 27      ADDR      CHKON1

0021272                                29 ONFL1
-001- 30 #      COMPARE
-001- 31 #      COMPARE ON-LINE MCHB BIT 0 TO 0.
-001- 32 #      IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0021272 02 000030 020014 ----- CDGNM -001- 33      VFD      1,LPINDX 2,1 1,0 1,SUCCESS 5,0 6,NCOMPARE
0021273 02 000031 000000 ----- -001- 34      VFD      15,0 1,0

-001- 36 #      FAILTST
-001- 37 #      FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS BDOMNRF.
-001- 38 #      DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0021274 02 000032 020017 ----- CDGNM -001- 39      VFD      1,0 2,1 5,0 2,0 6,NFAILTST
0021275 02 000033 000001 ----- -001- 40      VFD      16,BDOMNRF

-001- 42 #      NO3_CODE
-001- 43 #      PROCESS 3ACC CODED ROUTINE AT ADDRESS CHKOFF1.
0021276 02 000034 040043 000000 CDGNM -001- 44      VFD      1,0 2,2 7,0 6,NNO3CD
0021277 02 000035 000000 022035 0022035 -001- 45      ADDR      CHKOFF1

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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TEST 76 SEGMENT 1

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SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS W77D

```

0021301      ,      01 OFFL1
-001- 02 #      COMPARE
-001- 03 #      COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO INITTSTC.
-001- 04 #      IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0021301 02 000037 050014 000000 CDGNM -001- 05      VFD 1,LPIDX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
0021302 02 000040 000000 121334 CINIT -001- 06      ADDR INITTSTC

-001- 08 #      FAILTST
-001- 09 #      FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS BDOFFMRF.
-001- 10 #      DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0021304 02 000042 020017 ----- CDGNM -001- 11      VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0021305 02 000043 000002 ----- -001- 12      VFD 16,BDOFFMRF

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 76 SEGMENT 1

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SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS

W77D

```

-001- 01 # ZERO_PT
-001- 02 # ZERO THE OFF-LINE PROGRAM TIMER.
0021306 02 000044 000030 ----- CDGNM -001- 03 VFD 1,0 2,0 7,0 6,NZERPT

-001- 05 # CALLPROS
-001- 06 # RETURN TO CALL PROCESSING FOR ONE BASE LEVEL LOOP.
0021307 02 000045 000004 ----- CDGNM -001- 07 VFD 1,0 2,0 6,0 1,0 6,NPROS

-001- 09 # MICRO
-001- 10 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 11 # MISCELLANEOUS CROSSPOINT IDSWQX
0021310 02 000046 020005 ----- CDSNM -001- 12 VFD 1,0 2,1 7,0 6,NMICRO
0021311 02 000047 026712 ----- -001- 13 VFD 16,IDSQX

0021312 15 # TRY FIRST TIMEOUT WITH CC FLOP = 0.
# THIS SHOULD CAUSE AN INITIALIZATION OF
# THE OFF-LINE.

-001- 18 # SEND
-001- 19 # SEND 0(000010) TO OFF-LINE GENERAL REGISTER D.
-001- 20 # PARITY IS NORMAL.
0021312 02 000050 057606 ----- CDGNM -001- 21 VFD 1,0 2,2 7,B(1111110) 6,NSEND
0021313 02 000051 051400 ----- -001- 22 VFD 8,ROXT 2,0 2,0(0)
0021314 02 000052 000010 ----- -001- 23 VFD 16,0(000010)

0021315 25 # SET BTC, PUT CONSTANT INTO PROGRAM
# TIMER, THEN CLEAR BTC ALLOWING TIMER TO
# INCREMENT TO FIRST TIMEOUT.

-001- 28 # MICRO
-001- 29 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 30 # TO FIELD = SS_SXT FROM FIELD = ROXF
0021315 02 000053 020005 ----- CDGNM -001- 31 VFD 1,0 2,1 7,0 6,NMICRO
0021316 02 000054 105523 ----- -001- 32 VFD 8,SS_SXT 8,ROXF

-001- 34 # NO3 CODE
-001- 35 # PROCESS 3ACC CODED ROUTINE AT ADDRESS INITMRF2.
0021317 02 000055 040043 000000 CDGNM -001- 36 VFD 1,0 2,2 7,0 6,NN03CD
0021320 02 000056 000000 021763 0021763 -001- 37 ADDR INITMRF2

0021322 39 FSTMOUT
-001- 40 # SEND
-001- 41 # SEND 0(0037777) TO OFF-LINE DUPLICATE B REGISTERS.
-001- 42 # PARITY IS NORMAL.
0021322 02 000060 056706 ----- CDGNM -001- 43 VFD 1,0 2,2 7,B(1110111) 6,NSEND
0021323 02 000061 000000 037777 -001- 44 ADDR 0(0037777)

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 76 SEGMENT 1

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS W77D

```

-001- 01 # ABORT
0021325 02 000063 000141 ----- CDGNM -001- 02 # TURN ON INTERRUPT ABORT SWITCH.
-001- 03 VFD 1,0 2,0 6,0 1,1 6,NABT

-001- 05 # MICRO
-001- 06 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0021326 02 000064 020005 ----- CDGNM -001- 07 # MISCELLANEOUS CROSSPOINT BRXTIX
0021327 02 000065 154066 ----- -001- 08 VFD 1,0 2,1 7,0 6,NMICRO
-001- 09 VFD 16,BRXTIX

0021330 11 # CLEAR BTC
-001- 12 # MICRO
-001- 13 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0021330 02 000066 020005 ----- CDGNM -001- 14 # TO FIELD = SS_RXT FROM FIELD = ROXF
0021331 02 000067 107123 ----- -001- 15 VFD 1,0 2,1 7,0 6,NMICRO
-001- 16 VFD 8,SS_RXT 8,ROXF

-001- 18 # TIMETST
0021332 02 000070 020003 ----- CDGNM -001- 19 # ALLOW OFF-LINE TO RUN FOR 500 MICROSECONDS WHILE ON-LINE WAITS.
0021333 02 000071 000310 ----- -001- 20 VFD 1,0 2,1 7,0 6,NTMTEST
-001- 21 VFD 16,LPNUM

-001- 23 # NO3 CODE
0021334 02 000072 040043 000000 CDGNM -001- 24 # PROCESS 3ACC CODED ROUTINE AT ADDRESS CHKON2.
0021335 02 000073 000000 022017 0022017 -001- 25 VFD 1,0 2,2 7,0 6,NNO3CD
-001- 26 ADDR CHKON2

0021337 28 ONFL2
-001- 29 # ZERO PT
0021337 02 000075 000030 ----- CDGNM -001- 30 # ZERO THE OFF-LINE PROGRAM TIMER.
-001- 31 VFD 1,0 2,0 7,0 6,NZERPT

-001- 33 # ABORT
0021340 02 000076 000041 ----- CDGNM -001- 34 # TURN OFF INTERRUPT ABORT SWITCH.
-001- 35 VFD 1,0 2,0 6,0 1,0 6,NABT

0021341 37 # ON-LINE SHOULD NOT BE AFFECTED
-001- 38 # COMPARE
-001- 39 # COMPARE ON-LINE MCHB BIT 0 TO 0.
0021341 02 000077 020014 ----- CDGNM -001- 40 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0021342 02 000100 000000 ----- -001- 41 VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,0 6,NCOMPARE
-001- 42 VFD 15,0 1,0

-001- 44 # FAILTST
-001- 45 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS BDON1ST.
0021343 02 000101 020017 ----- CDGNM -001- 46 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0021344 02 000102 000003 ----- -001- 47 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 48 VFD 16,BDON1ST

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SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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TEST 76 SEGMENT 1

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SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS

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						-001- 01 #	N03_CODE	
						-001- 02 #	PROCESS 3ACC CODED ROUTINE AT ADDRESS CHKOFF2.	
0021345	02	000103	040043	000000	CDGNM	-001- 03	VFD 1,0 2,2 7,0 6,NN03CD	
0021346	02	000104	000000	022044	0022044	-001- 04	ADDR CHKOFF2	
0021350							06 OFFL2	
0021350							07	# OFF-LINE SHOULD HAVE BEEN INITIALIZED
						-001- 08 #	COMPARE	
						-001- 09 #	COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(0000000).	
						-001- 10 #	IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.	
0021350	02	000106	050014	-----	CDGNM	-001- 11	VFD 1,LPINDX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE	
0021351	02	000107	000000	000000		-001- 12	ADDR 0(0000000)	
						-001- 14 #	FAILTST	
						-001- 15 #	FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS BDOFF1ST.	
						-001- 16 #	DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.	
0021353	02	000111	020017	-----	CDGNM	-001- 17	VFD 1,0 2,1 5,0 2,0 6,NFAILTST	
0021354	02	000112	000004	-----		-001- 18	VFD 16,BDOFF1ST	

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 76 SEGMENT 1

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SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS W77D

```

-001- 01 # CALLPROS
0021355 02 000113 000004 ----- CDGNM -001- 02 # RETURN TO CALL PROCESSING FOR ONE BASE LEVEL LOOP.
-001- 03 VFD 1,0 2,0 6,0 1,0 6,NPROS

0021356 05 # TRY FIRST TIMEOUT WITH CC FLOP=1.
# THIS SHOULD CAUSE A STOP AND SWITCH
# MESSAGE TO BE TRANSMITTED TO THE
# ON-LINE.

-001- 09 # SEND
-001- 10 # SEND 0(000010) TO OFF-LINE GENERAL REGISTER 0.
-001- 11 # PARITY IS NORMAL.
0021356 02 000114 057606 ----- CDGNM -001- 12 VFD 1,0 2,2 7,B(1111110) 6,NSEND
0021357 02 000115 051400 ----- -001- 13 VFD 8,ROXT 2,0 2,0(0)
0021360 02 000116 000010 ----- -001- 14 VFD 16,0(000010)

0021361 16 # SET BTC.
-001- 17 # MICRO
-001- 18 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 19 # TO FIELD = SS_SXT FROM FIELD = ROXF
0021361 02 000117 020005 ----- CDGNM -001- 20 VFD 1,0 2,1 7,0 6,NMICRO
0021362 02 000120 105523 ----- -001- 21 VFD 8,SS_SXT 8,ROXF

-001- 23 # NO3 CODE
-001- 24 # PROCESS JACC CODED ROUTINE AT ADDRESS INITMRF3.
0021363 02 000121 040043 000000 CDGNM -001- 25 VFD 1,0 2,2 7,0 6,NNO3CD
0021364 02 000122 000000 021772 0021772 -001- 26 ADDR INITMRF3

0021366 28 FSTMOUT1
-001- 29 # SEND
-001- 30 # SEND 0(010000) TO OFF-LINE GENERAL REGISTER 1.
-001- 31 # PARITY IS NORMAL.
0021366 02 000124 057606 ----- CDGNM -001- 32 VFD 1,0 2,2 7,B(1111110) 6,NSEND
0021367 02 000125 052400 ----- -001- 33 VFD 8,R1XT 2,0 2,0(0)
0021370 02 000126 010000 ----- -001- 34 VFD 16,0(010000)

0021371 36 SETCC1
0021371 37 # SET CC FLOP IN "OFF-LINE" PROCESSOR
-001- 38 # MICRO
-001- 39 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 40 # TO FIELD = SS_SXT FROM FIELD = R1XF
0021371 02 000127 020005 ----- CDGNM -001- 41 VFD 1,0 2,1 7,0 6,NMICRO
0021372 02 000130 105525 ----- -001- 42 VFD 8,SS_SXT 8,R1XF

-001- 44 # SEND
-001- 45 # SEND 0(0037777) TO OFF-LINE DUPLICATE B REGISTERS.
-001- 46 # PARITY IS NORMAL.
0021373 02 000131 056706 ----- CDGNM -001- 47 VFD 1,0 2,2 7,B(1110111) 6,NSEND
0021374 02 000132 000000 037777 -001- 48 ADDR 0(0037777)

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS

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```

-001- 01 # ABORT
-001- 02 # TURN ON INTERRUPT ABORT SWITCH.
0021376 02 000134 000141 ----- CDGNM -001- 03 VFD 1,0 2,0 6,0 1,1 6,NABT

-001- 05 # MICRO
-001- 06 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 07 # MISCELLANEOUS CROSSPOINT BRXTIX
0021377 02 000135 020005 ----- CDGNM -001- 08 VFD 1,0 2,1 7,0 6,NMICRO
0021400 02 000136 154066 ----- -001- 09 VFD 16,BRXTIX

0021401 11 # CLEAR BTC
-001- 12 # MICRO
-001- 13 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 14 # TO FIELD = SS_RXT FROM FIELD = ROXF
0021401 02 000137 020005 ----- CDGNM -001- 15 VFD 1,0 2,1 7,0 6,NMICRO
0021402 02 000140 107123 ----- -001- 16 VFD 8,SS_RXT 8,ROXF

-001- 18 # TIMETST
-001- 19 # ALLOW OFF-LINE TO RUN FOR 100 MICROSECONDS WHILE ON-LINE WAITS.
0021403 02 000141 020003 ----- CDGNM -001- 20 VFD 1,0 2,1 7,0 6,NTMTEST
0021404 02 000142 000050 ----- -001- 21 VFD 16,LPNUM

-001- 23 # MICRO
-001- 24 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 25 # MISCELLANEOUS CROSSPOINT ZPTX
0021405 02 000143 020005 ----- CDGNM -001- 26 VFD 1,0 2,1 7,0 6,NMICRO
0021406 02 000144 134350 ----- -001- 27 VFD 16,ZPTX

-001- 29 # ABORT
-001- 30 # TURN OFF INTERRUPT ABORT SWITCH.
0021407 02 000145 000041 ----- CDGNM -001- 31 VFD 1,0 2,0 6,0 1,0 6,NABT

0021410 33 # CLEAR CC FLOP IN "OFF-LINE" PROCESSOR
-001- 34 # MICRO
-001- 35 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 36 # TO FIELD = SS_RXT FROM FIELD = R1XF
0021410 02 000146 020005 ----- CDGNM -001- 37 VFD 1,0 2,1 7,0 6,NMICRO
0021411 02 000147 107125 ----- -001- 38 VFD 8,SS_RXT 8,R1XF

0021412 40 # CLEAR BIN IN ON-LINE
0021412 41 GO_ON1
-001- 42 # NO3_CODE
-001- 43 # PROCESS 3ACC CODED ROUTINE AT ADDRESS CHKON3.
0021412 02 000150 0400A3 000000 CDGNM -001- 44 VFD 1,0 2,2 7,0 6,NN03CD
0021413 02 000151 000000 022026 0022026 -001- 45 ADDR CHKON3

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 76 SEGMENT 1

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SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS

W77D

```

0021415          01 ONFL3
0021415          02                                     # ON-LINE SHOULD HAVE RECEIVED STOP AND
                                                    SWITCH
-001- 04 #      COMPARE
-001- 05 #      COMPARE ON-LINE MCHB BIT 0 TO 1.
-001- 06 #      IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0021415 02 000153 020014 ----- CDGNM
0021416 02 000154 000001 -----
-001- 07 #      VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,0 6,NCOMPARE
-001- 08 #      VFD 15,0 1,1

-001- 10 #      FAILTST
-001- 11 #      FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS BDSTSW1.
-001- 12 #      DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0021417 02 000155 020017 ----- CDGNM
0021420 02 000156 000005 -----
-001- 13 #      VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 14 #      VFD 16,BDSTSW1

-001- 16 #      NO3_CODE
-001- 17 #      PROCESS 3ACC CODED ROUTINE AT ADDRESS CHKOFF3.
0021421 02 000157 040043 000000 CDGNM
0021422 02 000160 000000 022053 0022053
-001- 18 #      VFD 1,0 2,2 7,0 6,NN03CD
-001- 19 #      ADDR  CHKOFF3

0021424          21 OFFL3
0021424          22                                     # OFF-LINE SHOULD NOT HAVE BEEN
                                                    INITIALIZED
-001- 24 #      COMPARE
-001- 25 #      COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO INITTSTC.
-001- 26 #      IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0021424 02 000162 050014 000000 CDGNM
0021425 02 000163 000000 121334 CINIT
-001- 27 #      VFD 1,LPINDX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
-001- 28 #      ADDR  INITTSTC

-001- 30 #      FAILTST
-001- 31 #      FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS BDOFFIN1.
-001- 32 #      DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0021427 02 000165 020017 ----- CDGNM
0021430 02 000166 000006 -----
-001- 33 #      VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 34 #      VFD 16,BDOFFIN1

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 76 SEGMENT 1

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SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS W77D

```

0021431                                01                                # CLEAR CC IN "OFF-LINE"
-001- 02 # CALLPROS
-001- 03 # RETURN TO CALL PROCESSING FOR ONE BASE LEVEL LOOP.
0021431 02 000167 000004 ----- CDGNM -001- 04 VFD 1,0 2,0 6,0 1,0 6,NPROS

0021432                                06                                # TRY SECOND TIMEOUT. THIS SHOULD CAUSE
                                                                AN INITIALIZATION OF THE OFF-LINE
-001- 08 # SEND
-001- 09 # SEND 0(010000) TO OFF-LINE GENERAL REGISTER 1.
-001- 10 # PARITY IS NORMAL.
0021432 02 000170 057606 ----- CDGNM -001- 11 VFD 1,0 2,2 7,B(1111110) 6,NSEND
0021433 02 000171 052400 ----- -001- 12 VFD 8,R1XT 2,0 2,0(0)
0021434 02 000172 010000 ----- -001- 13 VFD 16,0(010000)

0021435                                15                                # SET OFF-LINE CC FLOP SO THAT FIRST
                                                                TIMEOUT WILL NOT INITIALIZE OFF-LINE
0021435                                17 SETCC2
-001- 18 # MICRO
-001- 19 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 20 # TO FIELD = SS_SXT FROM FIELD = R1XF
0021435 02 000173 020005 ----- CDGNM -001- 21 VFD 1,0 2,1 7,0 6,NMICRO
0021436 02 000174 105525 ----- -001- 22 VFD 8,SS_SXT 8,R1XF

-001- 24 # SEND
-001- 25 # SEND 0(000010) TO OFF-LINE GENERAL REGISTER 0.
-001- 26 # PARITY IS NORMAL.
0021437 02 000175 057606 ----- CDGNM -001- 27 VFD 1,0 2,2 7,B(1111110) 6,NSEND
0021440 02 000176 051400 ----- -001- 28 VFD 8,ROXT 2,0 2,0(0)
0021441 02 000177 000010 ----- -001- 29 VFD 16,0(000010)

0021442                                31                                # SET BTC
-001- 32 # MICRO
-001- 33 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 34 # TO FIELD = SS_SXT FROM FIELD = ROXF
0021442 02 000200 020005 ----- CDGNM -001- 35 VFD 1,0 2,1 7,0 6,NMICRO
0021443 02 000201 105523 ----- -001- 36 VFD 8,SS_SXT 8,ROXF

-001- 38 # NO3_CODE
-001- 39 # PROCESS 3ACC CODED ROUTINE AT ADDRESS INITMRF4.
0021444 02 000202 040043 000000 CDGNM -001- 40 VFD 1,0 2,2 7,0 6,NNO3CD
0021445 02 000203 000000 022001 0022001 -001- 41 ADDR INITMRF4

0021447                                43 SECTIMOUT
-001- 44 # SEND
-001- 45 # SEND 0(0077777) TO OFF-LINE DUPLICATE B REGISTERS.
-001- 46 # PARITY IS NORMAL.
0021447 02 000205 056706 ----- CDGNM -001- 47 VFD 1,0 2,2 7,B(1110111) 6,NSEND
0021450 02 000206 000000 077777 -001- 48 ADDR 0(0077777)

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SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 76 SEGMENT 1

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SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS W77D

```

-001- 01 # ABORT
-001- 02 # TURN ON INTERRUPT ABORT SWITCH.
0021452 02 000210 000141 ----- CDGNM -001- 03 VFD 1,0 2,0 6,0 1,1 6,NABT

-001- 05 # MICRO
-001- 06 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 07 # MISCELLANEOUS CROSSPOINT BRXTIX
0021453 02 000211 020005 ----- CDGNM -001- 08 VFD 1,0 2,1 7,0 6,NMICRO
0021454 02 000212 154066 ----- -001- 09 VFD 16,BRXTIX

0021455 11 # CLEAR BTC
-001- 12 # MICRO
-001- 13 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 14 # TO FIELD = SS_RXT FROM FIELD = ROXF
0021455 02 000213 020005 ----- CDGNM -001- 15 VFD 1,0 2,1 7,0 6,NMICRO
0021456 02 000214 107123 ----- -001- 16 VFD 8,SS_RXT 8,ROXF

-001- 18 # TIMETST
-001- 19 # ALLOW OFF-LINE TO RUN FOR 100 MICROSECONDS WHILE ON-LINE WAITS.
0021457 02 000215 020003 ----- CDGNM -001- 20 VFD 1,0 2,1 7,0 6,NTMTEST
0021460 02 000216 000050 ----- -001- 21 VFD 16,LPNUM

-001- 23 # MICRO
-001- 24 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 25 # MISCELLANEOUS CROSSPOINT ZPTX
0021461 02 000217 020005 ----- CDGNM -001- 26 VFD 1,0 2,1 7,0 6,NMICRO
0021462 02 000220 134350 ----- -001- 27 VFD 16,ZPTX

-001- 29 # ABORT
-001- 30 # TURN OFF INTERRUPT ABORT SWITCH.
0021463 02 000221 000041 ----- CDGNM -001- 31 VFD 1,0 2,0 6,0 1,0 6,NABT

0021464 33 # CLEAR CC FLOP
-001- 34 # MICRO
-001- 35 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 36 # TO FIELD = SS_RXT FROM FIELD = R1XF
0021464 02 000222 020005 ----- CDGNM -001- 37 VFD 1,0 2,1 7,0 6,NMICRO
0021465 02 000223 107125 ----- -001- 38 VFD 8,SS_RXT 8,R1XF

0021466 40 # CLEAR BIN IN ON-LINE
0021466 41 60_ON2
0021466 42 # LEAVE ON-LINE IN NORMAL STATE

-001- 43 # NO3 CODE
-001- 44 # PROCESS 3ACC CODED ROUTINE AT ADDRESS CLEANON2.
0021466 02 000224 040043 000000 CDGNM -001- 45 VFD 1,0 2,2 7,0 6,NNO3CD
0021467 02 000225 000000 022071 0022071 -001- 46 ADDR CLEANON2

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 76 SEGMENT 1

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SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS

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```

0021471          01 OFFCHK
-001- 02 #      NO3 CODE
-001- 03 #      PROCESS 3ACC CODED ROUTINE AT ADDRESS CHKOFF4.
0021471 02 000227 040043 000000 CD6NM -001- 04      VFD 1,0 2,2 7,0 6,NNO3CD
0021472 02 000230 000000 022062 0022062 -001- 05      ADDR  CHKOFF4

0021474          07 OFFL4
-001- 08 #      COMPARE
-001- 09 #      COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(0000000).
-001- 10 #      IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0021474 02 000232 050014 ----- CD6NM -001- 11      VFD 1,LPINDX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
0021475 02 000233 000000 000000 -001- 12      ADDR  0(0000000)

-001- 14 #      FAILTST
-001- 15 #      FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS BDSECTM.
-001- 16 #      DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0021477 02 000235 020017 ----- CD6NM -001- 17      VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0021500 02 000236 000007 ----- -001- 18      VFD 16,BDSECTM

-001- 20 #      STOP OFF
-001- 21 #      SET STOP BIT IN OFF-LINE CU.
0021501 02 000237 017627 ----- CD6NM -001- 22      VFD 1,0 2,0 7,B(1111110) 6,NSTOP

0021502          24 # CLEAR OFF-LINE PT

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 76 SEGMENT 2

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS

W77D

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 76 SEGMENT 2
-001- 04 # *
-001- 05 # *****

0021502 02 000240 000200 ----- CDGNM -001- 08 VFD 1,0 2,0 2,0 5,0(2) 6,NTESTSEG

11 # WHEN THE CC FLOP IS SET, MAINTENANCE CHANNEL
12 # ORDERS "MSTART", "MSTOP", AND "LDMAR" SHOULD BE BLOCKED.
13 # ALSO THE "CLPT" ORDER SHOULD RESULT IN SETTING ERROR
14 # BIT "PTRER" AND THE "SWITCH" ORDER SHOULD RESULT
15 # IN SETTING ERROR BIT "SWER"

-001- 17 # CALLPROS
-001- 18 # RETURN TO CALL PROCESSING FOR ONE BASE LEVEL LOOP.
0021503 02 000241 000004 ----- CDGNM -001- 19 VFD 1,0 2,0 6,0 1,0 6,NPROS

-001- 21 # SEND
-001- 22 # SEND 0(010000) TO OFF-LINE GENERAL REGISTER 1.
-001- 23 # PARITY IS NORMAL.
0021504 02 000242 057606 ----- CDGNM -001- 24 VFD 1,0 2,2 7,B(1111110) 6,NSEND
0021505 02 000243 052400 ----- -001- 25 VFD 8,R1XT 2,0 2,0(0)
0021506 02 000244 010000 ----- -001- 26 VFD 16,0(010000)

0021507 28 # SET OFF-LINE CC FLOP
-001- 29 # MICRO
-001- 30 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 31 # TO FIELD = SS_SXT FROM FIELD = R1XF
0021507 02 000245 020005 ----- CDGNM -001- 32 VFD 1,0 2,1 7,0 6,NMICRO
0021510 02 000246 105525 ----- -001- 33 VFD 8,SS_SXT 8,R1XF

-001- 35 # ZERO_ER
-001- 36 # ZERO THE OFF-LINE ER.
0021511 02 000247 000012 ----- CDGNM -001- 37 VFD 1,0 2,0 7,0 6,NZERO_ER

-001- 39 # SEND
-001- 40 # SEND 0(000010) TO OFF-LINE GENERAL REGISTER 0.
-001- 41 # PARITY IS NORMAL.
0021512 02 000250 057606 ----- CDGNM -001- 42 VFD 1,0 2,2 7,B(1111110) 6,NSEND
0021513 02 000251 051400 ----- -001- 43 VFD 8,ROXT 2,0 2,0(0)
0021514 02 000252 000010 ----- -001- 44 VFD 16,0(000010)

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS

W77D

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-001- 01 # MICRO
-001- 02 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 03 # TO FIELD = SS_SXT FROM FIELD = ROXF
0021515 02 000253 020005 ----- CDGNM -001- 04 # VFD 1,0 2,1 7,0 6,NMICRO
0021516 02 000254 105523 ----- -001- 05 # VFD 8,SS_SXT 8,ROXF

-001- 07 # SEND
-001- 08 # SEND 0(0007400) TO OFF-LINE DUPLICATE B REGISTERS.
0021517 02 000255 056706 ----- CDGNM -001- 09 # PARITY IS NORMAL.
0021520 02 000256 000000 007400 -001- 10 # VFD 1,0 2,2 7,B(1110111) 6,NSEND
-001- 11 # ADDR 0(0007400)

-001- 13 # MICRO
-001- 14 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0021522 02 000260 020005 ----- CDGNM -001- 15 # MISCELLANEOUS CROSSPOINT BRXTIX
0021523 02 000261 154066 ----- -001- 16 # VFD 1,0 2,1 7,0 6,NMICRO
-001- 17 # VFD 16,BRXTIX

0021524 19 # BLOCK TIMING CHECK, AND SEND "CLPT".
# THE PROGRAM TIMER SHOULD NOT BE ZEROED
# AND THE "PTRER" BIT SHOULD BE SET

-001- 22 # ZERO PT
-001- 23 # ZERO THE OFF-LINE PROGRAM TIMER.
0021524 02 000262 000030 ----- CDGNM -001- 24 # VFD 1,0 2,0 7,0 6,NZERPT

0021525 26 # CLEAR OFF-LINE CC FLOP

-001- 27 # MICRO
-001- 28 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 29 # TO FIELD = SS_RXT FROM FIELD = R1XF
0021525 02 000263 020005 ----- CDGNM -001- 30 # VFD 1,0 2,1 7,0 6,NMICRO
0021526 02 000264 107125 ----- -001- 31 # VFD 8,SS_RXT 8,R1XF

-001- 33 # MICRO
-001- 34 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 35 # TO FIELD = MCHBXT FROM FIELD = T1XF
0021527 02 000265 020005 ----- CDGNM -001- 36 # VFD 1,0 2,1 7,0 6,NMICRO
0021530 02 000266 114623 ----- -001- 37 # VFD 8,MCHBXT 8,T1XF

-001- 39 # RETRN
-001- 40 # RETURN OFF-LINE MCHB TO ON-LINE MCHB.
0021531 02 000267 007710 ----- CDGNM -001- 41 # VFD 1,0 2,0 7,B(0111111) 6,NRETRN

-001- 43 # MASK
-001- 44 # MASK CONTENTS OF ON-LINE MCHB WITH 0(0177400).
0021532 02 000270 040013 ----- CDGNM -001- 45 # VFD 1,0 2,2 7,0 6,NMASK
0021533 02 000271 000000 177400 -001- 46 # ADDR 0(0177400)

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 50

TEST 76 SEGMENT 2

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SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

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```

-001- 01 # COMPARE NOT
-001- 02 # COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(0000000).
-001- 03 # IF COMPARISON DOES NOT EXIST, SKIP NEXT TABLE ENTRY.
0021535 02 000273 054014 ----- CDGNM -001- 04 # VFD 1,LPINDX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
0021536 02 000274 000000 000000 -001- 05 # ADDR 0(0000000)

-001- 07 # FAILTST
-001- 08 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS PTRCC.
-001- 09 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0021540 02 000276 020017 ----- CDGNM -001- 10 # VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0021541 02 000277 000010 ----- -001- 11 # VFD 16,PTRCC

-001- 13 # RETRN
-001- 14 # RETURN OFF-LINE_ER TO ON-LINE MCHB.
0021542 02 000300 013710 ----- CDGNM -001- 15 # VFD 1,0 2,0 7,B(1011111) 6,NRETRN

-001- 17 # COMPARE
-001- 18 # COMPARE ON-LINE MCHB BIT (S(PTRER)) TO 1.
-001- 19 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0021543 02 000301 022214 ----- CDGNM -001- 20 # VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,(S(PTRER)) 6,NCOMPARE
0021544 02 000302 000001 ----- -001- 21 # VFD 15,0 1,1

-001- 23 # FAILTST
-001- 24 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLPTRE.
-001- 25 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0021545 02 000303 020017 ----- CDGNM -001- 26 # VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0021546 02 000304 000011 ----- -001- 27 # VFD 16,FLPTRE

-001- 29 # MICRO
-001- 30 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 31 # TO FIELD = SS_RXT FROM FIELD = R1XF
0021547 02 000305 020005 ----- CDGNM -001- 32 # VFD 1,0 2,1 7,0 6,NMICRO
0021550 02 000306 107125 ----- -001- 33 # VFD 8,SS_RXT 8,R1XF

-001- 35 # CALLPROS
-001- 36 # RETURN TO CALL PROCESSING FOR ONE BASE LEVEL LOOP.
0021551 02 000307 000004 ----- CDGNM -001- 37 # VFD 1,0 2,0 6,0 1,0 6,NPROS
0021552 39 # SEND "SWITCH". NO INITIALIZATION
# SHOULD TAKE PLACE AND THE "SWER" BIT
# SHOULD BE SET

-001- 42 # SEND
-001- 43 # SEND 0(010000) TO OFF-LINE GENERAL REGISTER 1.
-001- 44 # PARITY IS NORMAL.
0021552 02 000310 057606 ----- CDGNM -001- 45 # VFD 1,0 2,2 7,B(1111110) 6,NSEND
0021553 02 000311 052400 ----- -001- 46 # VFD 8,R1XT 2,0 2,0(0)
0021554 02 000312 010000 ----- -001- 47 # VFD 16,0(010000)

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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TEST 76 SEGMENT 2

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SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

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```

0021555      ,
-001- 01 #          # SET OFF-LINE CC FLOP
-001- 02 #          MICRO
-001- 03 #          PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 04 #          TO FIELD = SS SXT FROM FIELD = R1XF
0021555 02 000313 020005 ----- CDGMM -001- 05          VFD 1,0 2,1 7,0 6,NMICRO
0021556 02 000314 105525 ----- -001- 06          VFD 8,SS_SXT 8,R1XF

-001- 08 #          NO3_CODE
-001- 09 #          PROCESS 3ACC CODED ROUTINE AT ADDRESS INTIAL.
0021557 02 000315 040043 000000 CDGMM -001- 10          VFD 1,0 2,2 7,0 6,NN03CD
0021560 02 000316 000000 022100 0022100 -001- 11          ADDR INTIAL

0021562
-001- 13 #          13 CHKSW
-001- 14 #          NO3_CODE
-001- 15 #          PROCESS 3ACC CODED ROUTINE AT ADDRESS CLNON1.
0021562 02 000320 040043 000000 CDGMM -001- 16          VFD 1,0 2,2 7,0 6,NN03CD
0021563 02 000321 000000 022116 0022116 -001- 17          ADDR CLNON1

0021565
0021565
-001- 19 #          19 ONCLND1
-001- 20 #          # SEND SWITCH MESSAGE
-001- 21 #          NO3_CODE
-001- 22 #          PROCESS 3ACC CODED ROUTINE AT ADDRESS SNDSW.
0021565 02 000323 040043 000000 CDGMM -001- 23          VFD 1,0 2,2 7,0 6,NN03CD
0021566 02 000324 000000 022125 0022125 -001- 24          ADDR SNDSW

0021570
0021570
-001- 26 #          26 SWSENT
-001- 27 #          # CLEAR CC FLOP
-001- 28 #          MICRO
-001- 29 #          PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0021570 02 000326 020005 ----- CDGMM -001- 30 #          TO FIELD = SS RXT FROM FIELD = R1XF
0021571 02 000327 107125 ----- -001- 31          VFD 1,0 2,1 7,0 6,NMICRO
-001- 32          VFD 8,SS_RXT 8,R1XF

-001- 34 #          34 CSTATUS2 ON 0(330) # 13622
-001- 35 #          NOTE ***** THE FIRST ADDRESS OVERWRITTEN IS 000330 *****

-001- 38 #          RETRN
-001- 39 #          RETURN OFF-LINE ER TO ON-LINE MCHB.
0021572 02 000330 013710 ----- CDGMM -001- 40          VFD 1,0 2,0 7,B(1011111) 6,NRETRN

-001- 42 #          COMPARE
-001- 43 #          COMPARE ON-LINE MCHB BIT S(SWER) TO 1.
-001- 44 #          IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0021573 02 000331 022314 ----- CDGMM -001- 45          VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(SWER) 6,NCOMPARE
0021574 02 000332 000001 ----- -001- 46          VFD 15,0 1,1

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SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS W77D

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-001- 01 #   FAILTST
-001- 02 #   FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLSWER.
-001- 03 #   DATA WORDS IN FAILURE MESSAGE ARE SPECIFIED BY "TTY_DATA" MACRO.
0021575 02 000333 020017 ----- CDGNM -001- 04   VFD   1,0 2,1 5,0 2,0 6,NFAILTST
0021576 02 000334 000013 ----- -001- 05   VFD   16,FLSWER

-001- 07 #   NO3_CODE
-001- 08 #   PROCESS 3ACC CODED ROUTINE AT ADDRESS OFFLTST.
0021577 02 000335 040043 000000 CDGNM -001- 09   VFD   1,0 2,2 7,0 6,NN03CD
0021600 02 000336 000000 022107 0022107 -001- 10   ADDR  OFFLTST

0021602                                     12 OFTST1
-001- 13 #   COMPARE
-001- 14 #   COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO INITTSTC.
-001- 15 #   IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0021602 02 000340 050014 000000 CDGNM -001- 16   VFD   1,LPINDX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
0021603 02 000341 000000 121334 CINIT -001- 17   ADDR  INITTSTC

-001- 19 #   FAILTST
-001- 20 #   FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLCCSW.
-001- 21 #   DATA WORDS IN FAILURE MESSAGE ARE SPECIFIED BY "TTY_DATA" MACRO.
0021605 02 000343 020017 ----- CDGNM -001- 22   VFD   1,0 2,1 5,0 2,0 6,NFAILTST
0021606 02 000344 000012 ----- -001- 23   VFD   16,FLCCSW

0021607                                     25
-001- 26   EOW # 13622
NOTE ***** THE LAST ADDRESS OVERWRITTEN IS 000344 *****

-001- 29 #   MICRO
-001- 30 #   PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 31 #   TO FIELD = SS_RXT FROM FIELD = R1XF
0021607 02 000345 020005 ----- CDGNM -001- 32   VFD   1,0 2,1 7,0 6,NMICRO
0021610 02 000346 107125 ----- -001- 33   VFD   8,SS_RXT 8,R1XF

-001- 35 #   CALLPROS
-001- 36 #   RETURN TO CALL PROCESSING FOR ONE BASE LEVEL LOOP.
0021611 02 000347 000004 ----- CDGNM -001- 37   VFD   1,0 2,0 6,0 1,0 6,NPROS

-001- 39 #   SEND
-001- 40 #   SEND 0(010000) TO OFF-LINE GENERAL REGISTER 1.
-001- 41 #   PARITY IS NORMAL.
0021612 02 000350 057606 ----- CDGNM -001- 42   VFD   1,0 2,2 7,0(1111110) 6,NSEND
0021613 02 000351 052400 ----- -001- 43   VFD   8,R1XT 2,0 2,0(0)
0021614 02 000352 010000 ----- -001- 44   VFD   16,0(010000)

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SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-10932-50

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SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS

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0021615                                01                                # SET OFF-LINE CC FLOP
                                -001- 02 # MICRO
                                -001- 03 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
                                -001- 04 # TO FIELD = SS_SXT FROM FIELD = R1XF
0021615 02 000353 020005 ----- CDGNM -001- 05 VFD 1,0 2,1 7,0 6,NMICRO
0021616 02 000354 105525 ----- -001- 06 VFD 8,SS_SXT 8,R1XF

0021617                                08                                # TRY "LDMAR"
                                -001- 09 # LOAD_MAR
                                -001- 10 # LOAD AND FREEZE THE OFF-LINE MAR WITH 0(000000).
0021617 02 000355 020033 ----- CDGNM -001- 11 VFD 1,0 2,1 7,0 6,NFRZ
0021620 02 000356 000000 ----- -001- 12 VFD 16,0(000000)

0021621                                14                                # CLEAR OFF-LINE CC FLOP
                                -001- 15 # MICRO
                                -001- 16 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
                                -001- 17 # TO FIELD = SS_RXT FROM FIELD = R1XF
0021621 02 000357 020005 ----- CDGNM -001- 18 VFD 1,0 2,1 7,0 6,NMICRO
0021622 02 000360 107125 ----- -001- 19 VFD 8,SS_RXT 8,R1XF

0021623                                21                                # THE MAR SHOULD STILL CONTAIN THE STOP
                                # ADDRESS AS INDICATED BY THE ALL ZEROES
                                # OUTPUT OF MICROSTORE
                                -001- 24 # READ_MICRO
                                -001- 25 # RETURN OFF-LINE LOW BITS OF MICRO WORD ADDRESSED IN MAR.
0021623 02 000361 000036 ----- CDGNM -001- 26 VFD 1,0 2,0 6,0 1,0 6,NRDMICRO

                                -001- 28 # COMPARE
                                -001- 29 # COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(0000000).
                                -001- 30 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0021624 02 000362 050014 ----- CDGNM -001- 31 VFD 1,LPINDX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
0021625 02 000363 000000 000000 -001- 32 ADDR 0(0000000)

                                -001- 34 # FAILTST
                                -001- 35 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLCCLDMR.
                                -001- 36 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0021627 02 000365 020017 ----- CDGNM -001- 37 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0021630 02 000366 000014 ----- -001- 38 VFD 16,FLCCLDMR

0021631                                40                                # WITH CC=0, ISSUE "LDMAR" TO CLEAR
                                # STOP BIT IN SS
                                -001- 42 # CALLPROS
                                -001- 43 # RETURN TO CALL PROCESSING FOR ONE BASE LEVEL LOOP.
0021631 02 000367 000004 ----- CDGNM -001- 44 VFD 1,0 2,0 6,0 1,0 6,NPROS

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SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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TEST 76 SEGMENT 2

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SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS W77D

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-001- 01 # LOAD MAR
0021632 02 000370 020033 ----- CDGNM -001- 02 # LOAD AND FREEZE THE OFF-LINE MAR WITH 0(000377).
0021633 02 000371 000377 ----- -001- 03 # VFD 1,0 2,1 7,0 6,NFRZ
-001- 04 # VFD 16,0(000377)

0021634 # SET OFF-LINE CC FLOP
-001- 06 #
-001- 07 # MICRO
-001- 08 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0021634 02 000372 020005 ----- CDGNM -001- 09 # TO FIELD = SS_SXT FROM FIELD = R1XF
0021635 02 000373 105525 ----- -001- 10 # VFD 1,0 2,1 7,0 6,NMICRO
-001- 11 # VFD 8,SS_SXT 8,R1XF

0021636 # "MSTART" COMMAND SHOULD NOT WORK AND
# MICROSTORE OUTPUT SHOULD BE ALL OS
# CORRESPONDING TO LOCATION H_STOP
-001- 13 #
-001- 16 # STRT_OFF
0021636 02 000374 017526 ----- CDGNM -001- 17 # START THE OFF-LINE CU BY CLEARING FREEZE BIT.
-001- 18 # VFD 1,0 2,0 7,B(1111101) 6,NSTRT

0021637 # CLEAR OFF-LINE CC FLOP
-001- 20 #
-001- 21 # MICRO
-001- 22 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0021637 02 000375 020005 ----- CDGNM -001- 23 # TO FIELD = SS_RXT FROM FIELD = R1XF
0021640 02 000376 107125 ----- -001- 24 # VFD 1,0 2,1 7,0 6,NMICRO
-001- 25 # VFD 8,SS_RXT 8,R1XF

-001- 27 # READ_MICRO
0021641 02 000377 000036 ----- CDGNM -001- 28 # RETURN OFF-LINE LOW BITS OF MICRO WORD ADDRESSED IN MAR.
-001- 29 # VFD 1,0 2,0 6,0 1,0 6,NRDMICRO

-001- 31 # COMPARE
-001- 32 # COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(0000000).
0021642 02 000400 050014 ----- CDGNM -001- 33 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0021643 02 000401 000000 000000 -001- 34 # VFD 1,LPINDX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
-001- 35 # ADDR 0(0000000)

-001- 37 # FAILTST
-001- 38 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLCSTRT.
0021645 02 000403 020017 ----- CDGNM -001- 39 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0021646 02 000404 000015 ----- -001- 40 # VFD 1,0 2,1 5,0 2,0 6,NFAILTST
-001- 41 # VFD 16,FLCSTRT

0021647 # SET OFF-LINE CC FLOP
-001- 43 #
-001- 44 # MICRO
-001- 45 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
0021647 02 000405 020005 ----- CDGNM -001- 46 # TO FIELD = SS_SXT FROM FIELD = R1XF
0021650 02 000406 105525 ----- -001- 47 # VFD 1,0 2,1 7,0 6,NMICRO
-001- 48 # VFD 8,SS_SXT 8,R1XF

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SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 76 SEGMENT 2

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SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS W77D

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0021651          01          # MSTOP COMMAND SHOULD NOT SET STOP BIT
-001- 02 # STOP OFF
-001- 03 # SET STOP BIT IN OFF-LINE CU.
0021651 02 000407 017627 ----- CDGNM -001- 04 VFD 1,0 2,0 7,B(1111110) 6,NSTOP

0021652          06          # CLEAR OFF-LINE CC FLOP
-001- 07 # MICRO
-001- 08 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 09 # TO FIELD = SS_RXT FROM FIELD = R1XF
0021652 02 000410 020005 ----- CDGNM -001- 10 VFD 1,0 2,1 7,0 6,NMICRO
0021653 02 000411 107125 ----- -001- 11 VFD 8,SS_RXT 8,R1XF

-001- 13 # RETRN
-001- 14 # RETURN OFF-LINE SS TO ON-LINE MCHB.
0021654 02 000412 016711 ----- CDGNM -001- 15 VFD 1,0 2,0 7,B(1110111) 6,N2RETRN

-001- 17 # COMPARE
-001- 18 # COMPARE ON-LINE MCHB BIT S(STP) TO 0.
-001- 19 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0021655 02 000413 021614 ----- CDGNM -001- 20 VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(STP) 6,NCOMPARE
0021656 02 000414 000000 ----- -001- 21 VFD 15,0 1,0

-001- 23 # FAILTST
-001- 24 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLCSTP.
-001- 25 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0021657 02 000415 020017 ----- CDGNM -001- 26 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0021660 02 000416 000016 ----- -001- 27 VFD 16,FLCSTP

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SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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TEST 76 SEGMENT 3

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SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS W77D

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 76 SEGMENT 3
-001- 04 # *
-001- 05 # *****

0021661 02 000417 000300 ----- CDGNM -001- 08 VFD 1,0 2,0 2,0 5,0(3) 6,NTESTSEG

11 # THE BRANCH ALLOWED ERROR CHECK IS TESTED
12 # FUNCTIONALLY WITH TWO PIECES OF OFF-LINE CODE,
13 # ONE CONTAINING THE CORRECT BA BIT AND THE OTHER
14 # MISSING A BA BIT.

-001- 16 # ZERO ER
-001- 17 # ZERO THE OFF-LINE ER.
0021662 02 000420 000012 ----- CDGNM -001- 18 VFD 1,0 2,0 7,0 6,NZERO_ER

-001- 20 # ADD OFF
-001- 21 # START OFF-LINE PROCESSOR AT ADDRESS GOODBA.
0021663 02 000421 040022 000000 CDGNM -001- 22 VFD 1,0 2,2 7,0 6,NADD_OFF
0021664 02 000422 000000 022147 CDGNOF -001- 23 ADDR GOODBA

-001- 25 # RETRN
-001- 26 # RETURN OFF-LINE ER TO ON-LINE MCHB.
0021666 02 000424 013710 ----- CDGNM -001- 27 VFD 1,0 2,0 7,8(1011111) 6,NRETRN

-001- 29 # COMPARE
-001- 30 # COMPARE ON-LINE MCHB BIT (S(BAER)) TO 0.
-001- 31 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0021667 02 000425 021514 ----- CDGNM -001- 32 VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,(S(BAER)) 6,NCOMPARE
0021670 02 000426 000000 ----- -001- 33 VFD 15,0 1,0

-001- 35 # FAILTST
-001- 36 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLBDDBAER.
-001- 37 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0021671 02 000427 020017 ----- CDGNM -001- 38 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0021672 02 000430 000017 ----- -001- 39 VFD 16,FLBDDBAER

-001- 41 # ADD OFF
-001- 42 # START OFF-LINE PROCESSOR AT ADDRESS BADBA.
0021673 02 000431 040022 000000 CDGNM -001- 43 VFD 1,0 2,2 7,0 6,NADD_OFF
0021674 02 000432 000000 022152 CDGNOF -001- 44 ADDR BADBA

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SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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TEST 76 SEGMENT 3

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SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS

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0021676	02	000434	017627	-----	CDGNM	-001- 01 #	STOP_OFF
						-001- 02 #	SET STOP BIT IN OFF-LINE CU.
						-001- 03	VFD 1,0 2,0 7,B(1111110) 6,NSTOP
0021677	02	000435	013710	-----	CDGNM	-001- 05 #	RETRN
						-001- 06 #	RETURN OFF-LINE ER TO ON-LINE MCHB.
						-001- 07	VFD 1,0 2,0 7,B(1011111) 6,NRETRN
0021700	02	000436	021514	-----	CDGNM	-001- 09 #	COMPARE
						-001- 10 #	COMPARE ON-LINE MCHB BIT (S(BAER)) TO 1.
						-001- 11 #	IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0021701	02	000437	000001	-----		-001- 12	VFD 1,LPINDX 2,1 1,0 1,SUCCES 5,(S(BAER)) 6,NCOMPARE
						-001- 13	VFD 15,0 1,1
0021702	02	000440	020017	-----	CDGNM	-001- 15 #	FAILTST
						-001- 16 #	FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLNOBAER.
						-001- 17 #	DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0021703	02	000441	000020	-----		-001- 18	VFD 1,0 2,1 5,0 2,0 6,NFAILTST
						-001- 19	VFD 16,FLNOBAER

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 58

TEST 76 SEGMENT 4

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS W77D

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 76 SEGMENT 4
-001- 04 # *
-001- 05 # *****

0021704 02 000442 000400 ----- CDGNM -001- 08 VFD 1,0 2,0 2,0 5,0(4) 6,NTESTSEG

11 # THIS TEST WILL ADDRESS THE OFF LINE AT IOERROR WHICH IS THE STARTING ADDRESS
12 # OF A SEQUENCE WHICH USES TWO AUXILIARY CONTROL 2/4 DECODER STATES. THE TWO
13 # STATES TESTED ARE "TURN OFF BUS PARITY CHECK" B(1010) AND "I/O DML MATCH
14 # DIVERT" B(1100). BOTH OF THESE AUXILIARY CONTROL FUNCTIONS ARE TESTED
15 # FUNCTIONALLY BY OFF LINE CODE WHICH CONTAINS AN "SIO" COMMAND. THE ERROR
16 # REGISTER IS SAVED IN THE AK REGISTER AND EXAMINED BY THIS TEST FOR THE
17 # FOLLOWING CONDITIONS GBUS=ZERO, DML=ZERO, IO=ONE. BIT "BPC"
18 # IS CLEARED IN THE OFF LINE CODE TO ENABLE BUS PARITY CHECK.

-001- 20 # ADD OFF
-001- 21 # START OFF-LINE PROCESSOR AT ADDRESS IOERROR.
0021705 02 000443 040022 000000 CDGNM -001- 22 VFD 1,0 2,2 7,0 6,NADD_OFF
0021706 02 000444 000000 022162 CDGNMF -001- 23 ADDR IOERROR

-001- 25 # STOP OFF
-001- 26 # SET STOP BIT IN OFF-LINE CU.
0021710 02 000446 017627 ----- CDGNM -001- 27 VFD 1,0 2,0 7,B(1111110) 6,NSTOP

-001- 29 # MICRO
-001- 30 # PERFORM MICRO INSTRUCTION IN OFF-LINE CU.
-001- 31 # TO FIELD = ERXT FROM FIELD = AKXF
0021711 02 000447 0200D5 ----- CDGNM -001- 32 VFD 1,0 2,1 7,0 6,NMICRO
0021712 02 000450 125234 ----- -001- 33 VFD 8,ERXT 8,AKXF

-001- 35 # RETRN
-001- 36 # RETURN OFF-LINE ER TO ON-LINE MCHB.
0021713 02 000451 013710 ----- CDGNM -001- 37 VFD 1,0 2,0 7,B(1011111) 6,NRETRN

-001- 39 # COMPARE
-001- 40 # COMPARE ON-LINE MCHB BIT S(IOER) TO 1.
-001- 41 # IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0021714 02 000452 022414 ----- CDGNM -001- 42 VFD 1,LPINDX 2,1 1,0 1,SUCCE 5,S(IOER) 6,NCOMPARE
0021715 02 000453 000001 ----- -001- 43 VFD 15,0 1,1

-001- 45 # FAILTST
-001- 46 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLIOER.
-001- 47 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0021716 02 000454 020017 ----- CDGNM -001- 48 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0021717 02 000455 000023 ----- -001- 49 VFD 16,FLIOER

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 59

TEST 76 SEGMENT 4

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS

W77D

				-001- 02 #	COMPARE
				-001- 03 #	COMPARE ON-LINE MCHB BIT S(BUSER) TO 0.
				-001- 04 #	IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0021720	02	000456	020314	-----	CDGNM
0021721	02	000457	000000	-----	
				-001- 05	VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(BUSER) 6,NCOMPARE
				-001- 06	VFD 15,0 1,0
				-001- 08 #	FAILTST
				-001- 09 #	FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLGBUSD.
0021722	02	000460	020017	-----	CDGNM
0021723	02	000461	000025	-----	
				-001- 10 #	DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
				-001- 11	VFD 1,0 2,1 5,0 2,0 6,NFAILTST
				-001- 12	VFD 16,FLGBUSD
				-001- 14 #	COMPARE
				-001- 15 #	COMPARE ON-LINE MCHB BIT S(DMLR) TO 0.
				-001- 16 #	IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0021724	02	000462	020414	-----	CDGNM
0021725	02	000463	000000	-----	
				-001- 17	VFD 1,LPINDX 2,1 1,0 1,SUCCESS 5,S(DMLR) 6,NCOMPARE
				-001- 18	VFD 15,0 1,0
				-001- 20 #	FAILTST
				-001- 21 #	FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLDMLD.
				-001- 22 #	DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0021726	02	000464	020017	-----	CDGNM
0021727	02	000465	000026	-----	
				-001- 23	VFD 1,0 2,1 5,0 2,0 6,NFAILTST
				-001- 24	VFD 16,FLDMLD

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 60

TEST 76 SEGMENT 5

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS W77D

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 76 SEGMENT 5
-001- 04 # *
-001- 05 # *****

0021730 02 000466 000500 ----- CDGNM -001- 08 VFD 1,0 2,0 2,0 5,0(5) 6,NTESTSEG

11 # THE OFF-LINE SANITY TEST IS RUN. IF THE CU HAS
12 # PASSED DIAGNOSTICS UP TO THIS POINT, IT SHOULD BE CAPABLE
13 # OF RUNNING THIS TEST CORRECTLY WITHOUT FIRING ANY ERROR
14 # CIRCUITS.

-001- 16 # ADD_OFF
-001- 17 # START OFF-LINE PROCESSOR AT ADDRESS RNSANITY.
0021731 02 000467 040022 000000 CDGNM -001- 18 VFD 1,0 2,2 7,0 6,NADD_OFF
0021732 02 000470 000000 022155 CDGNOF -001- 19 ADDR RNSANITY

21 CSTATUS2 OW 0(472) # 790361
-001- 22 NOTE ***** THE FIRST ADDRESS OVERWRITTEN IS 000472 *****

-001- 25 # SKIP
-001- 26 # SKIP TO TABLE ENTRY AT ADDRESS PAT_CODE
0021734 02 000472 040025 000000 CDGNM -001- 27 VFD 1,0 2,2 7,0 6,NSKIP
0021735 02 000473 000000 113537 0000755 -001- 28 ADDR PAT_CODE

0021737 30 EOW # 790361
-001- 31 NOTE ***** THE LAST ADDRESS OVERWRITTEN IS 000474 *****

34 CPATCH1 BGNP 0(755) # 790361
-001- 35 NOTE CPATCH1 'CSECT'
-001- 36 NOTE ***** PATCH AREA BEGINS AT 000755 *****

0113537 39 PAT_CODE
-001- 40 # CALLPROS
-001- 41 # RETURN TO CALL PROCESSING FOR 2 25 MS. INTERVALS.
0113537 06 000755 020004 ----- CDGNM -001- 42 VFD 1,0 2,1 6,0 1,0 6,NPROS
0113540 06 000756 000002 ----- -001- 43 VFD 16,2

-001- 45 # STOP_OFF
-001- 46 # SET STOP BIT IN OFF-LINE CU.
0113541 06 000757 017627 ----- CDGNM -001- 47 VFD 1,0 2,0 7,B(1111110) 6,NSTOP

```

SYS STATUS BITS,SWITCHING,AND SYS STATUS PANEL TESTS

PR-1C932-50

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TEST 76 SEGMENT 5

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS W77D

```

-001- 01 #   RETRN
-001- 02 #   RETURN OFF-LINE GENERAL REGISTER RD TO ON-LINE MCHB.
0113542 06 000760 037611 ----- CDGNM -001- 03   VFD 1,0 2,1 7,B(1111110) 6,N2RETRN
0113543 06 000761 114523 ----- -001- 04   VFD 8,MCHBXT 8,ROXF

-001- 06 #   SKIP
-001- 07 #   SKIP TO TABLE ENTRY AT ADDRESS PAT_RTN
0113544 06 000762 040025 000000 CDGNM -001- 08   VFD 1,0 2,2 7,0 6,NSKIP
0113545 06 000763 000000 021740 0000476 -001- 09   ADDR PAT_RTN

0113545                                     # 790361
-001- 11   ENDP
-001- 12   NOTE ***** LAST PATCH ADDRESS USED IS 000764 *****
-001- 13   NOTE ***** NUMBER OF PATCH WORDS USED IS 8 (DECIMAL) *****

-001- 16 CSTATUS2 0W 0(475) # 790361
-001- 17   NOTE ***** THE FIRST ADDRESS OVERWRITTEN IS 000475 *****

0021737                                     # 790361
0021737 02 000475 006000 ----- -001- 20   TAKEOUT 1
0021740                                     LR 0,0
0021740                                     22 PAT_RTN
0021740                                     23 EOH
-001- 24   NOTE ***** THE LAST ADDRESS OVERWRITTEN IS 000475 *****

-001- 27 #   COMPARE
-001- 28 #   COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO SANITYC.
-001- 29 #   IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0021740 02 000476 050014 000000 CDGNM -001- 30   VFD 1,LPINDX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
0021741 02 000477 000000 012535 CINIT -001- 31   ADDR SANITYC

-001- 33 #   FAILTST
-001- 34 #   FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLSNTY.
-001- 35 #   DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0021743 02 000501 020017 ----- CDGNM -001- 36   VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0021744 02 000502 000021 ----- -001- 37   VFD 16,FLSNTY

-001- 39 #   RETRN
-001- 40 #   RETURN OFF-LINE ER TO ON-LINE MCHB.
0021745 02 000503 013710 ----- CDGNM -001- 41   VFD 1,0 2,0 7,B(1011111) 6,NRETRN

-001- 43 #   COMPARE
-001- 44 #   COMPARE ON-LINE MAINTENANCE CHANNEL BUFFER TO 0(0000000).
-001- 45 #   IF COMPARISON EXISTS, SKIP NEXT TABLE ENTRY.
0021746 02 000504 050014 ----- CDGNM -001- 46   VFD 1,LPINDX 2,2 1,1 1,SUCCESS 5,0 6,NCOMPARE
0021747 02 000505 000000 000000 -001- 47   ADDR 0(0000000)

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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TEST 76 SEGMENT 5

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS W77D

	-001- 01 #	FAULTST	
	-001- 02 #	FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS FLSNTYER.	
	-001- 03 #	DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.	
0021751 02 000507 020017 ----- CDGNM	-001- 04	VFD 1,0 2,1 5,0 2,0 6,NFAULTST	
0021752 02 000510 000022 -----	-001- 05	VFD 16,FLSNTYER	
	-001- 07 #	PASSTST	
0021753 02 000511 000021 137020 CDGNM	-001- 08 #	GO TO DIAGNOSTIC MONITOR PASS BRANCH.	
	-001- 09	VFD 1,0 2,0 7,0 6,NPASSTST	

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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## SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS W77D

01 # 3A CC CODE FOR SEGMENT 1  
 03 # THE FOLLOWING ROUTINES SET UP TWO TEST CONSTANTS IN OFF-LINE STORE  
 04 # SUCH THAT THE INITIALIZATION PROGRAM WILL TAKE A TEST BRANCH.  
 05 # ALSO THE INTERRUPT BIT "ERRI" IS MASKED IN THE ON-LINE SO THAT  
 06 # A STOP AND SWITCH MESSAGE OR A RESET PROGRAM TIMER MESSAGE RECEIVED  
 07 # BY THE ON-LINE PROCESSOR CAN BE DETECTED BY THE DIAGNOSTIC.  
 08 # THE ON-LINE ERROR REGISTER AND INTERRUPT BIT "ERRI" ARE ALSO CLEARED.

0021754						11	INITMRF1		
0021754						12	CALL	INITMF	
0021754	02	000512	137020	021105	0021105	-001-	13	BSA	INITMF
0021756							14	RTN_TBL	PT1S
0021756	02	000514	171400	-----		-001-	15	GA	
0021757	02	000515	031000	021255	0021255	-001-	16	LAL	RD,PT1S,RAO
0021761	02	000517	037000	011162	CDGNM	-001-	17	BL	INTRPN03
0021763						20	INITMRF2		
0021763						21	CALL	INITMF	
0021763	02	000521	137020	021105	0021105	-001-	22	BSA	INITMF
0021765							23	RTN_TBL	FSTMOUT
0021765	02	000523	171400	-----		-001-	24	GA	
0021766	02	000524	031000	021322	0021322	-001-	25	LAL	RD,FSTMOUT,RAO
0021770	02	000526	037000	011162	CDGNM	-001-	26	BL	INTRPN03
0021772						29	INITMRF3		
0021772						30	CALL	INITMF	
0021772	02	000530	137020	021105	0021105	-001-	31	BSA	INITMF
0021774							32	RTN_TBL	FSTMOUT1
0021774	02	000532	171400	-----		-001-	33	GA	
0021775	02	000533	031000	021366	0021366	-001-	34	LAL	RD,FSTMOUT1,RAO
0021777	02	000535	037000	011162	CDGNM	-001-	35	BL	INTRPN03
0022001						38	INITMRF4		
0022001						39	CALL	INITMF	
0022001	02	000537	137020	021105	0021105	-001-	40	BSA	INITMF
0022003							41	RTN_TBL	SECTIMOUT
0022003	02	000541	171400	-----		-001-	42	GA	
0022004	02	000542	031000	021447	0021447	-001-	43	LAL	RD,SECTIMOUT,RAO
0022006	02	000544	037000	011162	CDGNM	-001-	44	BL	INTRPN03

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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## SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS W770

02 # THE FOLLOWING ROUTINES PUT THE CONTENT OF ON-LINE INTERRUPT BIT  
 03 # "ERRI" INTO THE ON-LINE MCHB BIT 0

0022010					05	CHKON1			
0022010					06		CALL	CHKON	
0022010	02	000546	137020	021204	0021204	-001-	07	BSA	CHKON
0022012					08		RTN_TBL	ONFL1	
0022012	02	000550	171400	-----		-001-	09	GA	
0022013	02	000551	031000	021272	0021272	-001-	10	LAL	RD,ONFL1,RAO
0022015	02	000553	037000	011162	CDGNM	-001-	11	BL	INTRPN03

0022017					14	CHKON2			
0022017					15		CALL	CHKON	
0022017	02	000555	137020	021204	0021204	-001-	16	BSA	CHKON
0022021					17		RTN_TBL	ONFL2	
0022021	02	000557	171400	-----		-001-	18	GA	
0022022	02	000560	031000	021337	0021337	-001-	19	LAL	RD,ONFL2,RAO
0022024	02	000562	037000	011162	CDGNM	-001-	20	BL	INTRPN03

0022026					23	CHKON3			
0022026					24		CALL	CHKON	
0022026	02	000564	137020	021204	0021204	-001-	25	BSA	CHKON
0022030					26		RTN_TBL	ONFL3	
0022030	02	000566	171400	-----		-001-	27	GA	
0022031	02	000567	031000	021415	0021415	-001-	28	LAL	RD,ONFL3,RAO
0022033	02	000571	037000	011162	CDGNM	-001-	29	BL	INTRPN03

32 # THE FOLLOWING ROUTINES PUT THE CONTENT OF OFF-LINE STORE WORD  
 33 # "INITTST1" INTO THE ON-LINE MCHB

0022035					35	CHKOFF1			
0022035					36		CALL	CHKOFF	
0022035	02	000573	137020	021147	0021147	-001-	37	BSA	CHKOFF
0022037					38		RTN_TBL	OFFL1	
0022037	02	000575	171400	-----		-001-	39	GA	
0022040	02	000576	031000	021301	0021301	-001-	40	LAL	RD,OFFL1,RAO
0022042	02	000600	037000	011162	CDGNM	-001-	41	BL	INTRPN03

0022044					44	CHKOFF2			
0022044					45		CALL	CHKOFF	
0022044	02	000602	137020	021147	0021147	-001-	46	BSA	CHKOFF
0022046					47		RTN_TBL	OFFL2	
0022046	02	000604	171400	-----		-001-	48	GA	
0022047	02	000605	031000	021350	0021350	-001-	49	LAL	RD,OFFL2,RAO

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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## SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS W77D

```

0022051 02 000607 037000 011162 CDGNM -001- 01 BL INTRPN03

0022053 04 CHKOFF3
0022053 05 CALL CHKOFF
0022053 02 000611 137020 021147 0021147 -001- 06 BSA CHKOFF
0022055 07 RTN_TBL OFFL3
0022055 02 000613 171400 ----- -001- 08 GA
0022056 02 000614 031000 021424 0021424 -001- 09 LAL RO,OFFL3,RAO
0022060 02 000616 037000 011162 CDGNM -001- 10 BL INTRPN03

```

```

0022062 13 CHKOFF4
0022062 14 CALL CHKOFF
0022062 02 000620 137020 021147 0021147 -001- 15 BSA CHKOFF
0022064 16 RTN_TBL OFFL4
0022064 02 000622 171400 ----- -001- 17 GA
0022065 02 000623 031000 021474 0021474 -001- 18 LAL RO,OFFL4,RAO
0022067 02 000625 037000 011162 CDGNM -001- 19 BL INTRPN03

```

22 # THE FOLLOWING ROUTINE CLEARS THE ON-LINE ER,IM AND INTERRUPT "ERRI"

```

0022071 24 CLEANON2
0022071 25 CALL CLEANON
0022071 02 000627 137020 021212 0021212 -001- 26 BSA CLEANON
0022073 27 RTN_TBL OFFCHK
0022073 02 000631 171400 ----- -001- 28 GA
0022074 02 000632 031000 021471 0021471 -001- 29 LAL RO,OFFCHK,RAO
0022076 02 000634 037000 011162 CDGNM -001- 30 BL INTRPN03

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS W77D

06 # THE FOLLOWING ROUTINE SETS UP TWO TEST CONSTANTS IN OFF-LINE STORE  
 07 # SUCH THAT THE INITIALIZATION PROGRAM WILL TAKE A TEST BRANCH.  
 08 # ALSO THE INTERRUPT BIT "ERRI" IS MASKED IN THE ON-LINE SO THAT  
 09 # A STOP AND SWITCH MESSAGE OR A RESET PROGRAM TIMER MESSAGE RECEIVED  
 10 # BY THE ON-LINE PROCESSOR CAN BE DETECTED BY THE DIAGNOSTIC.  
 11 # THE ON-LINE ERROR REGISTER AND INTERRUPT BIT "ERRI" ARE ALSO CLEARED.

```

0022100          13 INTIAL
0022100          14          CALL    INITMF
0022100 02 000636 137020 021105 0021105 -001- 15          BSA    INITMF
0022102          16          RTN_TBL CHKSW
0022102 02 000640 171400 ----- -001- 17          GA
0022103 02 000641 031000 021562 0021562 -001- 18          LAL    RO,CHKSW,RAO
0022105 02 000643 037000 011162 CD6NM -001- 19          BL    INTRPNO3
  
```

22 # THE FOLLOWING ROUTINE PUTS THE CONTENT OF OFF-LINE STORE WORD  
 23 # "INITTSY1" INTO THE ON-LINE MCHB

```

0022107          25 OFFLTST
0022107          26          CALL    CHKOFF
0022107 02 000645 137020 021147 0021147 -001- 27          BSA    CHKOFF
0022107          28          CSTATUS2 OW 0(647),0(650) # 13622
-001- 29          NOTE ***** THE FIRST ADDRESS OVERWRITTEN IS 000647 *****
  
```

```

0022111          32          RTN_TBL OFTST1
0022111 02 000647 171400 ----- -001- 33          GA
0022112 02 000650 031000 021602 0021602 -001- 34          LAL    RO,OFTST1,RAO
0022114 02 000652 037000 011162 CD6NM -001- 35          BL    INTRPNO3
  
```

```

0022116          37          EOW # 13622
-001- 38          NOTE ***** THE LAST ADDRESS OVERWRITTEN IS 000653 *****
  
```

42 # THE FOLLOWING CODE CLEARS ON-LINE ER, IM, AND INRERRUPT "ERRI"

```

0022116          44 CLNON1
0022116          45          CALL    CLEANON
0022116 02 000654 137020 021212 0021212 -001- 46          BSA    CLEANON
0022120          47          RTN_TBL ONCLND1
0022120 02 000656 171400 ----- -001- 48          GA
0022121 02 000657 031000 021565 0021565 -001- 49          LAL    RO,ONCLND1,RAO
  
```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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## SYSTEM\_STATES\_PT\_2 DIAGNOSTIC TEST

CSTATS W77D

0022123 02 000661 037000 011162 CDGNM -001- 01 BL INTRPN03

04 # THE FOLLOWING CODE SENDS A SWITCH MESSAGE FROM THE ON-LINE TO THE  
 05 # OFF-LINE CU OVER THE MAINTENANCE CHANNEL

0022125					07 SNDSW		
0022125					08	LMCH	SWITCH
0022125	02	000663	103401	000017	-001- 09	LI	RO,SWITCH
0022127					-001- 10	CALL	SMCH
0022127	02	000665	037020	111077	CSYSUB	-002- 11	BSA SMCH
0022131						12	RTN_TBL SWSENT
0022131	02	000667	171400	-----	-001- 13	GA	
0022132	02	000670	031000	021570	0021570	-001- 14	LAL RO,SWSENT,RAO
0022134	02	000672	037000	011162	CDGNM	-001- 15	BL INTRPN03

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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0:39:22 2/06/81 \*\*\*\*

## SUBROUTINES FOR SYSTEM STATES DIAGNOSTIC TESTS

CSTATS W77D

```

0021105          01 STATSUB CSECT
0021105          02 # SUBROUTINES CALLED BY JACC CODED ROUTINES

0021105          04 INITMF
0021105          05 # LOAD OFF-LINE STORE WORDS INITTST1 AND INITTST2 WITH CONSTANT INITTSTC,
0021105          06 # MASK AND CLEAR THE ON-LINE INTERRUPT "ERRI" AND CLAEER ON-LINE ER.

0021105          08 BEGIN ( )
E0021105 03 000000 121014 ----- 09 LRS RO,IM
0021106 03 000001 034400 043133 CTSD 10 STL RO,PAGSCR+25 # SAVE IM SO THAT IT CAN BE RESTORED AT
# END OF TEST
0021110 03 000003 026005 ----- 12 SBN RO,S(ERRI) # MASK ERRI INTERRUPT
0021111 03 000004 007700 ----- 13 LSR IM,RO # CLEAR ERRI INTERRUPT
0021112 03 000005 013000 ----- -001- 14 MIMODE L IS_R,RO # CLEAR ERRI INTERRUPT
0021113 03 000006 033123 ----- -002- 15 MIS 0
0021114 03 000007 031420 043000 CTSD 16 VFD 8,IS_RXT 8,ROXF
0021116 03 000011 003401 121334 CINIT 17 LAL R1,INITTST1,RA1
0021120 03 000013 000420 ----- -001- 18 LI RO,INITTSTC
0021121 03 000014 136100 ----- -001- 19 STOS 0(RA1)
0021122 03 000015 031420 043350 CTSD 20 MSTF 0(RA1)
0021124 03 000017 000420 ----- -001- 21 DATA B(1011110001000000)
0021125 03 000020 136100 ----- -001- 22 LAL R1,INITTST2,RA1
0021126 03 000021 013000 ----- -001- 23 STOS 0(RA1)
0021127 03 000022 025750 ----- -001- 24 MSTF 0(RA1)
0021130 03 000023 003401 000300 -001- 25 DATA B(1011110001000000)
0021132 03 000025 007400 ----- -001- 26 MIMODE ZER
0021133 03 000026 037020 011072 CDGNM -001- 27 MIS 0
0021135 03 000030 103401 107231 -002- 28 DATA ZERX # CLEAR BITS ISC1 AND ISC2 IN SS
0021137 03 000032 007400 ----- 29 LI RO,M(ISC1)M(ISC2)
0021140 03 000033 037020 011075 CDGNM -001- 30 LSR MCHTR,RO
0021142 03 000035 103401 000020 -002- 31 LMCHF LDMCHB
0021144 03 000041 156400 ----- -001- 32 CALL SLDMCHBF
0021144 03 000037 037020 111163 CSYSUB -001- 33 BSA SLDMCHBF
0021144 03 000041 156400 ----- -001- 34 LI RO,SS_RXT+E(8)+MCHBXF
0021144 03 000037 037020 111163 CSYSUB -001- 35 LSR MCHTR,RO
0021144 03 000041 156400 ----- -001- 36 LMCHF LDMIRL
0021144 03 000037 037020 111163 CSYSUB -001- 37 CALL SLDMIRLF
0021144 03 000041 156400 ----- -001- 38 BSA SLDMIRLF
0021144 03 000037 037020 111163 CSYSUB -001- 39 LI RO,E(4) # INSURE AT LEAST 2.5 MS. UNTIL THE
# NEXT TIMED INTERRUPT ASSUMING THAT A 5
# MS. INTERRUPT IS THE MOST FREQUENT
# EQUIPPED TIMED INTERRUPT.
0021144 03 000037 037020 111163 CSYSUB -001- 45 CALL INSYNC
0021144 03 000037 037020 111163 CSYSUB -001- 46 BSA INSYNC
0021144 03 000041 156400 ----- -001- 47 RETURN
0021144 03 000041 156400 ----- -001- 48 BSA

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 69

## SUBROUTINES FOR SYSTEM STATES DIAGNOSTIC TESTS

CSTATS W77D

```

0021147          01 CHKOFF
0021147          02 # PUT CONTENT OF OFF-LINE STORE WORD ININTST1 IN ON-LINE MCHB

0021147          04 BEGIN ( )
0021147          05 # CLEAR BIN IN ON-LINE
0021147          06 ZBIN
0021147 03 000042 113002 ----- -001- 07 MIS 2
0021150 03 000043 107322 ----- -001- 08 DATA 36562
0021151 03 000044 003401 001000          09 LI RO,0(1000) # STALL
0021153          10 WAITLP
0021153 03 000046 136000 021153 0021153    11 BX RO,WAITLP # STALL UNTIL OFF-LINE INITIALIZATION
                                          COMPLETES
                                          # 13622
-001- 13 STATSUB OW 0(50)
-001- 14 NOTE ***** THE FIRST ADDRESS OVERWRITTEN IS 000050 *****

0021155 03 000050 037000 115157 0000064 -001- 17 CPATCH3 BGNP 0(64) # 13622
-001- 18 BL XXX455
-001- 19 NOTE CPATCH3 'CSECT'
-001- 20 NOTE ***** PATCH AREA BEGINS AT 000064 *****

0115157          -001- 23 XXX455 PATCHAREA
0115157          24 CALL INITOST
0115157 10 000064 137020 110443 CSYSUB -001- 25 BSA INITOST
0115161 10 000066 131400 021167 0000062    26 LAL RO,MCHTBL-1,RA1
0115163          27 ENDP # 13622
0115163 10 000070 037000 021157 0000052 -001- 28 BL XXX458
-001- 29 NOTE ***** LAST PATCH ADDRESS USED IS 000071 *****
-001- 30 NOTE ***** NUMBER OF PATCH WORDS USED IS 6 (DECIMAL) *****

0021157          -001- 33 XXX458 OMCONTINUE
0021157 03 000052 103026 -----          34 LN R1,6
0021160          35 EOW # 13622
-001- 36 NOTE ***** THE LAST ADDRESS OVERWRITTEN IS 000052 *****

0021160          39 CALL EXCMCH
0021160 03 000053 037020 111216 CSYSUB -001- 40 BSA EXCMCH
0021162 03 000055 131420 043000 CTSD          41 LAL R1,INITTST1,RA1
0021164          42 LOS 0(RA1)
0021164 03 000057 076020 ----- -001- 43 STAF 0(RA1)
0021165 03 000060 136160 ----- -001- 44 DATA B(1011110001110000)
0021166          45 LDMCHBUF
0021166 03 000061 107460 -----          46 LSR MCHB,RO
0021167          47 RETURN
0021167 03 000062 056400 ----- -001- 48 BTSA

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 70

0:39:22 2/06/81 \*\*\*\*

## SUBROUTINES FOR SYSTEM STATES DIAGNOSTIC TESTS

CSTATS W77D

```

0021170          0T MCHTBL
0021170 03 000063 006420 000000          02      ADDR      0,MSTOP
0021172 03 000065 004620 000300          03      ADDR      M(ISC1)IM(ISC2),LDMCHB
0021174 03 000067 000720 107231          04      ADDR      SS_RXT*(8)+MCHB*XF,LDMIRL
0021176 03 000071 004620 000260          05      ADDR      0(260),LDMCHB
0021200 03 000073 000720 070631          06      ADDR      BRXT*(8)+MCHB*XF,LDMIRL
0021202 03 000075 000720 145312          07      ADDR      BRXMMS*,LDMIRL

0021204          13 CHKON
14 #      INSERT THE ON-LINE INTERRUPT BIT "ERRI" INTO THE ON-LINE MCHB BIT 0,
15 #      CLEAR "ERRI" INTERRUPT BIT, CLEAR IM AND ER

0021204          17      BEGIN      ( )
0021204 03 000077 112412 -----          18      UNPK      ER
0021205 03 000100 010443 -----          19      RRN      R2,S(SWER)
0021206 03 000101 016402 000001          20      LRM      RO,R2,0(1)
0021210 03 000103 007460 -----          21      LSR      MCHB,RO
0021211 03 000104 053001 ----- 0021212          22      B        CLNON

0021212          28 CLEANON
29 #      CLEAR ON-LINE ER AND IM AND THE INTERRUPT BIT "ERRI"

0021212          31      BEGIN      ( )
0021212          32 CLNON
0021212          33      MIMODE  ZER          # CLEAR ER
0021212 03 000105 113000 -----          -001- 34      MIS      0
0021213 03 000106 025750 -----          -002- 35      DATA  ZER%
          36 STATSUB  OW      0(107)          #2e790446
          -001- 37      NOTE      ***** THE FIRST ADDRESS OVERWRITTEN IS 000107 *****

0021214 03 000107 003401 000040          40      LI      RO,M(ERRI)
0021216          41      EOW          #2e790446
          -001- 42      NOTE      ***** THE LAST ADDRESS OVERWRITTEN IS 000110 *****

0021216          45      MIMODE  L IS_R,RO          # CLEAR ERRI INTERRUPT
0021216 03 000111 013000 -----          -001- 46      MIS      0
0021217 03 000112 033123 -----          -002- 47      VFD      8,IS_RXT 8,RO*F
0021220 03 000113 030400 043133 CTSD          48      LL      RO,PAGSCR+25
0021222 03 000115 007700 -----          49      LSR      IM,RO          # RESTORE IM

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 71

SUBROUTINES FOR SYSTEM STATES DIAGNOSTIC TESTS

CSTATS W77D

# CLEAR BIN IN ON-LINE

0021223		01			
0021223		02	ZBIN		
0021223	03 000116 013002 -----	-001- 03	MIS	2	
0021224	03 000117 107322 -----	-001- 04	DATA	36562	
0021225		05	RETURN		
0021225	03 000120 056400 -----	-001- 06	BTSA		

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 \*\*\*\*

## SUBROUTINES FOR SYSTEM STATES DIAGNOSTIC TESTS

CSTATS W77D

01	CDGNOF	EXTERN	IOSELECT
02	CDGNOF	EXTERN	OFFSSP
03	CBLM	EXTERN	RMV_SSP
04	CBLM	EXTERN	RST_SSP
05	CSYSUB	EXTERN	SIO

## SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 73

TEST 77

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATUS\_PANEL DIAGNOSTIC TEST

CSTATS W77D

```

-001- 01 # *****
-001- 02 # *****
-001- 03 # **
-001- 04 # ** CU DIAGNOSTIC TEST NO. 77, SYSTEM_STATUS_PANEL
-001- 05 # **
-001- 06 # *****
-001- 07 # *****

```

0023476

-001- 10 ODGSSP CSECT

-001- 13 # THIS TEST USES OFF-LINE CODE AT CSECTS ODGSSP AND ODGOFSUB

```

0023476 04 000000 014545 011740 CDGNM -001- 17 VFD 1,0 2,0 2,3 2,0 3,5 6,NBGN
0023477 04 000001 011740 023000 EXTERN -001- 18 ADDR ODGSSP,XDGSSP
0023501 04 000003 000640 017115 EXTERN -001- 19 ADDR ODGOFSUB,XDGOFSUB

```

```

23 # SEGMENT 1
24 # ON-LINE PROCESSOR ACCESS TO THE SYSTEM STATUS PANEL IS TESTED
25 # WITH A SINGLE I/O ORDER. THE I/O RESPONSE SHOULD BE A NORMAL
26 # START CODE

28 # SEGMENT 2
29 # THE REMAINING SEGMENTS ARE RUN BY THE OFF-LINE PROCESSOR.
30 # THE STATUS PANEL IS INITIALIZED TO ALL 0S IN ALL 12
31 # ADDRESSABLE REGISTERS. AN ATTEMPT IS MADE TO SET ALL REGISTERS
32 # TO 1S. THE RESULTS ARE EXAMINED. SINCE SOME BITS IN SOME
33 # REGISTERS HAVE LIMITED OR NO PROGRAM ACCESS, A MASK IS
34 # USED FOR EXAMINING EACH REGISTER SUCH THAT THESE BITS ARE
35 # IGNORED

37 # SEGMENT 3
38 # ATTEMPT TO SET ALL REGISTERS TO 0S AND VERIFY

40 # SEGMENT 4
41 # INSURE THAT READ-ONLY OPERATION DOES NOT CAUSE A WRITE
42 # TO ANY REGISTER. SEND ALL 1S DATA TO EACH ADDRESS
43 # WITH READ-ONLY OP-CODE. REGISTERS SHOULD REMAIN ZEROED.

45 # SEGMENT 5
46 # TEST FOR MULTIPLE ADDRESS SELECTION. SEND ALL 1S
47 # POSSIBLE 2/4 ADDRESS CODES. THESE ARE INVALID SINCE
48 # ADDRESS CODES ARE 3/6 CODES. THE BAD CODES ARE SENT WITH
49 # ALL 1S DATA. IF THERE ARE NO FAULTS, NO REGISTERS

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 74

TEST 77

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATUS\_PANEL DIAGNOSTIC TEST

CSTATS W77D

01 # WILL BE WRITTEN.  
02 # ON-LINE PROCESSOR ACCESS TO THE SYSTEM STATUS PANEL IS TESTED  
03 # WITH A SINGLE I/O ORDER. THE I/O RESPONSE SHOULD BE A NORMAL  
04 # START CODE

06 # SEGMENT 6  
07 # THE PANEL TIMER WILL BE TESTED BY CLEARING THE TIMER AND THE TIMER BIT.  
08 # THE TIMER BIT IS A RECORD THAT A TIMEOUT HAS TAKEN PLACE.  
09 # THIS IS THE ONLY BIT ASSOCIATED WITH THE TIMER WHICH CAN BE  
10 # EXAMINED. THE STATE OF THE TIMER BIT WILL THEN BE CHECKED.  
11 # IT SHOULD BE ZERO. THE TIMER BIT IS THEN MONITORED  
12 # FOR 2 SECONDS DURING WHICH A TIMEOUT SHOULD NOT TAKE PLACE. THE TIMER BIT  
13 # WILL THEN BE MONITORED FOR ANOTHER 3 SECONDS DURING WHICH A TIMEOUT SHOULD  
14 # TAKE PLACE.

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 75

TEST 77 SEGMENT 1

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATUS\_PANEL DIAGNOSTIC TEST

CSTATS W77D

```

-001- 01 # *****
-001- 02 # *
-001- 03 # * TEST 77 SEGMENT 1
-001- 04 # *
-001- 05 # *****

0023503 04 000005 000100 ----- CDGNM -001- 08 VFD 1,0 2,0 2,0 5,D(1) 6,NTESTSEG

-001- 11 # NO3_CODE
-001- 12 # PROCESS 3ACC CODED ROUTINE AT ADDRESS IOACC.
0023504 04 000006 040043 000000 CDGNM -001- 13 VFD 1,0 2,2 7,0 6,NN03CD
0023505 04 000007 000000 023513 0023513 -001- 14 ADDR IOACC

0023507 -001- 16 NOACC
-001- 17 # FAILTST
-001- 18 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS NOIOAC.
-001- 19 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0023507 04 000011 020017 ----- CDGNM -001- 20 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0023510 04 000012 000001 ----- -001- 21 VFD 16,NOIOAC

0023511 -001- 23 MCHRTN
-001- 24 # FAILTST
-001- 25 # FAILURE EXIT - SYMBOLIC TROUBLE NUMBER IS MCHRSP.
-001- 26 # DATA WORD IN FAILURE MESSAGE IS ON-LINE MCHB.
0023511 04 000013 020017 ----- CDGNM -001- 27 VFD 1,0 2,1 5,0 2,0 6,NFAILTST
0023512 04 000014 000002 ----- -001- 28 VFD 16,MCHRSP

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 76

TEST 77. SEGMENT 1

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATUS\_PANEL DIAGNOSTIC TEST

CSTATS W770

0023513					01	IOACC					
0023513					02						
0023513					03						# REMOVE THE SSP FROM SERVICE
0023513 04	000015	137020	002250	CBLM	-001-	04	CALL	RMV_SSP			
0023515 04	000017	103621	016160	CDGNOF		05	BSA	RMV_SSP			
0023517 04	000021	003641	000036			06	LI	R9,IOSELCT			# READ MODE, VALID 3/0 CODE FOR ADDRESS
0023521						07	LI	R10,0(36)			# 1ST I/O ORDER WILL INITIALIZE
							CALL	SIO			CHANNEL.
0023521 04	000023	037020	111025	CSYSUB	-001-	09	BSA	SIO			
0023523						10	CALL	SIO			
0023523 04	000025	137020	111025	CSYSUB	-001-	11	BSA	SIO			
0023525 04	000027	114000	-----			12	TZ	RO			
0023526 04	000030	054016	-----	0023544		13	BC	GOODACC			
0023527 04	000031	003405	000001			14	CI	RO,1			
0023531 04	000033	054006	-----	0023537		15	BC	MCHR TNBD			
0023532						17	RTN_TBL	NOACC			# THE I/O CHANNEL DID NOT RESPOND
0023532 04	000034	071400	-----		-001-	18	GA				
0023533 04	000035	031000	023507	0023507	-001-	19	LAL	RO,NOACC,RAO			
0023535 04	000037	037000	011162	CDGNM	-001-	20	BL	INTRPNO3			
0023537						22	MCHR TNBD				
0023537						23	RTN_TBL	MCHR TN			# MAINTENANCE RESPONSE - STATUS PANEL
0023537 04	000041	171400	-----		-001-	25	GA				ERROR INDICATION
0023540 04	000042	031000	023511	0023511	-001-	26	LAL	RO,MCHR TN,RAO			
0023542 04	000044	037000	011162	CDGNM	-001-	27	BL	INTRPNO3			
0023544						29	GOODACC				# GOOD I/O ACCESS
0023544						32	RTN_TBL	DOSEG2			
0023544 04	000046	171400	-----		-001-	33	GA				
0023545 04	000047	031000	023551	0023551	-001-	34	LAL	RO,DOSEG2,RAO			
0023547 04	000051	037000	011162	CDGNM	-001-	35	BL	INTRPNO3			

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 77

TEST 77 SEGMENT 1

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATUS\_PANEL DIAGNOSTIC TEST

CSTATS W77D

0023551

01 DOSEG2

```

-001- 04 # CALLPROS
-001- 05 # RETURN TO CALL PROCESSING FOR ONE BASE LEVEL LOOP.
0023551 04 000053 000004 ----- CDGNM -001- 06 VFD 1,0 2,0 6,0 1,0 6,NPROS
-001- 08 # ADD_OFF
-001- 09 # START OFF-LINE PROCESSOR AT ADDRESS OFFSSP.
0023552 04 000054 040022 000000 CDGNM -001- 10 VFD 1,0 2,2 7,0 6,NADD_OFF
0023553 04 000055 000000 023000 CDGNOF -001- 11 ADDR OFFSSP
-001- 13 CDGSSP OW 0(57) # 790400
-001- 14 NOTE ***** THE FIRST ADDRESS OVERWRITTEN IS 000057 *****
-001- 17 # CALLPROS
-001- 18 # RETURN TO CALL PROCESSING FOR 255 25 MS. INTERVALS.
0023555 04 000057 020004 ----- CDGNM -001- 19 VFD 1,0 2,1 6,0 1,0 6,NPROS
0023556 04 000060 000377 ----- -001- 20 VFD 16,255
0023557 -001- 22 EOW # 790400
-001- 23 NOTE ***** THE LAST ADDRESS OVERWRITTEN IS 000060 *****
-001- 26 # N03_CODE
-001- 27 # PROCESS 3ACC CODED ROUTINE AT ADDRESS RSTSSP.
0023557 04 000061 040043 000000 CDGNM -001- 28 VFD 1,0 2,2 7,0 6,NNO3CD
0023560 04 000062 000000 023564 0023564 -001- 29 ADDR RSTSSP
0023562 31 ENDTST
-001- 32 # CALLPROS
-001- 33 # RETURN TO CALL PROCESSING FOR 4 25 MS. INTERVALS.
-001- 34 # DIAGNOSTIC WILL COMPLETE IN OFF-LINE CU.
-001- 35 # *** NOTE *** THIS TERMINATES TABLE ENTRIES.
0023562 04 000064 020104 ----- CDGNM -001- 36 VFD 1,0 2,1 6,0 1,1 6,NPROS
0023563 04 000065 000004 ----- -001- 37 VFD 16,4

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 78

TEST 77 SEGMENT 1

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATUS\_PANEL DIAGNOSTIC TEST

CSTATS W77D

0023564

01 RSTSSP  
02 # RESTORE THE SSP TO SERVICE

0023564

0023564	04	000066	137020	002255	CBLM	-001-	04	CALL	RST_SSP
0023566							05	BSA	RST_SSP
0023566	04	000070	171400	-----		-001-	06	RTH_TBL	ENDTST
0023566	04	000071	031000	023562	0023562	-001-	07	GA	
0023567	04	000073	037000	011162	CDGNM	-001-	08	LAL	RO,ENDTST,RAO
0023571	04					-001-	09	BL	INTRPN03

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 79

TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

SYSTEM\_STATUS\_PANEL DIAGNOSTIC TEST

CSTATS

W77D

0023571

-001- 03 #& TBL 7501  
 -001- 04 #& TEST 75  
 -001- 05 #& SEGMENT 1  
 -001- 06 #& PR CSTATS  
 -001- 07 #  
 08 # FAILURE IN GATING FROM BUS INTO SS REGISTER BIT 10  
 09 #  
 10 # PROC 06-11 FA1010 GENERAL REGISTERS BITS 2 AND 10

0023571

-001- 13 #& TBL 7502  
 -001- 14 #& TEST 75  
 -001- 15 #& SEGMENT 1  
 -001- 16 #& PR CSTATS  
 -001- 17 #  
 18 # FAILURE IN GATING FROM BUS INTO SS REGISTER BIT 6  
 19 #  
 20 # PROC 06-16 FA1010 GENERAL REGISTERS BITS 6 AND 14  
 21 # PROC 06-17 FA1010 GENERAL REGISTERS BITS 7 AND 15

0023571

-001- 24 #& TBL 7503  
 -001- 25 #& TEST 75  
 -001- 26 #& SEGMENT 1  
 -001- 27 #& PR CSTATS  
 -001- 28 #  
 29 # FAILURE IN GATING FROM BUS INTO SS REGISTER BIT 7  
 30 #  
 31 # PROC 06-17 FA1010 GENERAL REGISTERS BITS 7 AND 15

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 80

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7504 FLHLT

CSTATS W770

0023571

-001- 01 #& TBL 7504  
 -001- 02 #& TEST 75  
 -001- 03 #& SEGMENT 1  
 -001- 04 #& PR CSTATS  
 -001- 05 #  
 06 #  
 07 # FAILURE IN GATING FROM BUS INTO SS REGISTER BIT 5  
 08 # PROC 06-14 FA1010 GENERAL REGISTERS BITS 5 AND 13

0023571

-001- 11 #& TBL 7505  
 -001- 12 #& TEST 75  
 -001- 13 #& SEGMENT 2  
 -001- 14 #& PR CSTATS  
 -001- 15 #  
 16 # THE "SCF" OR "ZCF" CROSSPOINT HAS FAILED FOR CF COPY 0  
 17 #  
 18 # PROC 06-35 FA1021 MICRO CONTROL 6  
 19 # DECODING OF CROSSPOINTS AND CF COPY 0

0023571

-001- 22 #& TBL 7506  
 -001- 23 #& TEST 75  
 -001- 24 #& SEGMENT 2  
 -001- 25 #& PR CSTATS  
 -001- 26 #  
 27 # THE "SCF" OR "ZCF" CROSSPOINT HAS FAILED FOR CF COPY 1  
 28 #  
 29 # PROC 06-32 FA1019 MICRO CONTROL 4  
 30 # DECODING OF CROSSPOINTS AND CF COPY 1

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 81

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7507 FLCFD

CSTATS W77D

0023571

-001- 01 #& TBL 7507  
 -001- 02 #& TEST 75  
 -001- 03 #& SEGMENT 2  
 -001- 04 #& PR CSTATS  
 -001- 05 #  
 06 # THE OUTPUT OF THE CF WHICH IS WHICH APPEARS ON THE  
 07 # GATING BUS AS SS REGISTER BIT 19 IS NOT CORRECT  
 08 #  
 09 # PROC 06-35 FA1021 MICRO CONTROL 6  
 10 # THE CF ACTUALLY RESIDES ON THIS THIS BOARD  
 11 # THERE IS NO OUTPUT OF SS BIT 19

0023571

-001- 14 #& TBL 7508  
 -001- 15 #& TEST 75  
 -001- 16 #& SEGMENT 2  
 -001- 17 #& PR CSTATS  
 -001- 18 #  
 19 # THE "DSXCF" CROSSPOINT HAS FAILED FOR DS AND CF  
 20 # COPY 0  
 21 #  
 22 # PROC 06-35 FA1021 MICRO CONTROL 6

0023571

-001- 25 #& TBL 7509  
 -001- 26 #& TEST 75  
 -001- 27 #& SEGMENT 2  
 -001- 28 #& PR CSTATS  
 -001- 29 #  
 30 # THE "DSXCF" CROSSPOINT HAS FAILED FOR DS AND CF  
 31 # COPY 1  
 32 #  
 33 # PROC 06-32 FA1019 MICRO CONTROL 4

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 82

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7510 FLBDISP

CSTATS W77D

0023571

```

-001- 01 #& TBL 7510
-001- 02 #& TEST 75
-001- 03 #& SEGMENT 3
-001- 04 #& PR CSTATS
-001- 05 #
06 # THE "DBC" CONDITIONAL CROSSPOINT HAS ALLOWED GATING INTO
07 # THE DB WITH THE 'DISP' BIT IN THE SS CLEARED
08 #
09 # PROC 10-23 FA1027 ERROR REG/DISPLAY BUFFER LOW BITS
10 # PROC 10-22 FA1028 ERROR REG/DISPLAY BUFFER HIGH BITS
11 # PROC 02-20 FA1030 MISC. DEC. - REGISTERS BITS 17 AND 19
12 # DISPLAY BIT IN SS BIT 17
13 # PROC 06-06 FA1034 CONSOLE AND STATUS PANEL INTERFACE
14 # PROC 02-28 FA1036 MAINTENANCE CHANNEL BITS 11-19

```

0023571

```

-001- 17 #& TBL 7511
-001- 18 #& TEST 75
-001- 19 #& SEGMENT 3
-001- 20 #& PR CSTATS
-001- 21 #
22 # THE "DBC" CONDITIONAL CROSSPOINT HAS FAILED TO GATE TO
23 # THE DB WITH THE 'DISP' BIT IN THE SS SET
24 #
25 # PROC 10-23 FA1027 ERROR REG/DISPLAY BUFFER LOW BITS
26 # PROC 10-22 FA1028 ERROR REG/DISPLAY BUFFER HIGH BITS
27 # PROC 02-20 FA1030 MISC. DEC. - REGISTERS BITS 17 AND 19
28 # DISPLAY BIT IN SS BIT 17
29 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD
30 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD
31 # COMBINING OF DISPLAY BIT AND "DBC" CROSSPOINT
32 # COMBINING OF DISPLAY BIT AND "DBC" CROSSPOINT
33 # PROC 06-06 FA1034 CONSOLE AND STATUS PANEL INTERFACE

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 83

TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7512 MRFSS

CSTATS W770

0023571

```

-001- 01 #8 TBL 7512
-001- 02 #8 TEST 75
-001- 03 #8 SEGMENT 4
-001- 04 #8 PR CSTATS
-001- 05 #
06 # A SWITCH MESSAGE HAS BEEN TRANSMITTED OVER THE MAINTENANCE
07 # CHANNEL TO THE OFF-LINE CU. NO BITS IN THE SS WERE
08 # AFFECTED. THE INITIALIZATION PROBABLY DID NOT TAKE PLACE.
09 #
10 # PROC 02-27 FA1037 MAINTENANCE CHANNEL CONTROL
11 # MAINTENANCE CHANNEL FAILED TO GENERATE INITIALIZATION
12 # SIGNAL
13 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD
14 # INITIALIZATION CIRCUITRY
15 # PROC 06-06 FA1034 CONSOLE AND STATUS PANEL INTERFACE

```

0023571

```

-001- 18 #8 TBL 7513
-001- 19 #8 TEST 75
-001- 20 #8 SEGMENT 4
-001- 21 #8 PR CSTATS
-001- 22 #
23 # AN INITIALIZATION HAS FAILED TO SET THE "BLOCK HARDWARE CHECK"
24 # BIT IN THE SS
25 #
26 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD
27 # INITIALIZATION CIRCUITRY
28 # PROC 06-10 FA1010 GENERAL REGISTERS BITS 1 AND 9
29 # BHC BIT IN SS BIT 1

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 84

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7514 MRFSTP

CSTATS W77D

0023571

-001- 01 #& TBL 7514  
 -001- 02 #& TEST 75  
 -001- 03 #& SEGMENT 4  
 -001- 04 #& PR CSTATS  
 -001- 05 #  
 06 # AN INITIALIZATION HAS FAILED TO CLEAR THE "STP" BIT IN THE SS  
 07 #  
 08 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD  
 09 # INITIALIZATION CIRCUITRY  
 10 # PROC 06-16 FA1010 GENERAL REGISTERS BITS 6 AND 14  
 11 # STP BIT IN SS BIT 14

0023571

-001- 14 #& TBL 7515  
 -001- 15 #& TEST 75  
 -001- 16 #& SEGMENT 4  
 -001- 17 #& PR CSTATS  
 -001- 18 #  
 19 # AN INITIALIZATION HAS FAILED TO CLEAR THE "MINT" BIT IN THE SS  
 20 #  
 21 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD  
 22 # INITIALIZATION CIRCUITRY  
 23 # PROC 06-12 FA1010 GENERAL REGISTERS BITS 3 AND 11  
 24 # "MINT" BIT IN SS BIT 11.

0023571

-001- 27 #& TBL 7516  
 -001- 28 #& TEST 75  
 -001- 29 #& SEGMENT 4  
 -001- 30 #& PR CSTATS  
 -001- 31 #  
 32 # AN INITIALIZATION HAS FAILED TO SET THE "BTC" BIT IN THE SS  
 33 #  
 34 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD  
 35 # INITIALIZATION CIRCUITRY  
 36 # PROC 06-12 FA1010 GENERAL REGISTERS BITS 3 AND 11  
 37 # BTC BIT IN SS BIT 3

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 85

TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7517 MRFMSCL

CSTATS W77D

-001- 01 #8 TBL 7517  
 -001- 02 #8 TEST 75  
 -001- 03 #8 SEGMENT 4  
 -001- 04 #8 PR CSTATS  
 -001- 05 #  
 06 # AN INITIALIZATION HAS FAILED TO CLEAR ANY BITS OF THE  
 07 # MS REGISTER  
 0023571 08 #  
 09 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD  
 10 # INITIALIZATION CIRCUITRY

-001- 13 #8 TBL 7518  
 -001- 14 #8 TEST 75  
 -001- 15 #8 SEGMENT 4  
 -001- 16 #8 PR CSTATS  
 -001- 17 #  
 0023571 18 # AN INITIALIZATION HAS FAILED TO CLEAR BIT 0 IN THE MS REGISTER  
 19 #  
 20 # PROC 06-09 FA1010 GENERAL REGISTERS BITS 0 AND 8

-001- 23 #8 TBL 7519  
 -001- 24 #8 TEST 75  
 -001- 25 #8 SEGMENT 4  
 -001- 26 #8 PR CSTATS  
 -001- 27 #  
 0023571 28 # AN INITIALIZATION HAS FAILED TO CLEAR BIT 1 IN THE MS REGISTER  
 29 #  
 30 # PROC 06-10 FA1010 GENERAL REGISTERS BITS 1 AND 9

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 86

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7520 MRFMS02

CSTATS W77D

0023571

-001- 01 #& TBL 7520  
 -001- 02 #& TEST 75  
 -001- 03 #& SEGMENT 4  
 -001- 04 #& PR CSTATS  
 -001- 05 #  
 06 # AN INITIALIZATION HAS FAILED TO CLEAR BIT 2 IN THE MS REGISTER  
 07  
 08 # PROC 06-11 FA1010 GENERAL REGISTERS BITS 2 AND 10

0023571

-001- 11 #& TBL 7521  
 -001- 12 #& TEST 75  
 -001- 13 #& SEGMENT 4  
 -001- 14 #& PR CSTATS  
 -001- 15 #  
 16 # AN INITIALIZATION HAS FAILED TO CLEAR BIT 3 IN THE MS REGISTER  
 17  
 18 # PROC 06-12 FA1010 GENERAL REGISTERS BITS 3 AND 11

0023571

-001- 21 #& TBL 7522  
 -001- 22 #& TEST 75  
 -001- 23 #& SEGMENT 4  
 -001- 24 #& PR CSTATS  
 -001- 25 #  
 26 # AN INITIALIZATION HAS FAILED TO CLEAR BIT 4 IN THE MS REGISTER  
 27  
 28 # PROC 06-13 FA1010 GENERAL REGISTERS BITS 4 AND 12

0023571

-001- 31 #& TBL 7523  
 -001- 32 #& TEST 75  
 -001- 33 #& SEGMENT 4  
 -001- 34 #& PR CSTATS  
 -001- 35 #  
 36 # AN INITIALIZATION HAS FAILED TO CLEAR BIT 5 IN THE MS REGISTER  
 37  
 38 # PROC 06-14 FA1010 GENERAL REGISTERS BITS 5 AND 13

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 87

TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7524 MRFMS06

CSTATS W77D

0023571

-001- 01 #& TBL 7524  
 -001- 02 #& TEST 75  
 -001- 03 #& SEGMENT 4  
 -001- 04 #& PR CSTATS  
 -001- 05 #  
 06 # AN INITIALIZATION HAS FAILED TO CLEAR BIT 6 IN THE MS REGISTER  
 07  
 08 # PROC 06-16 FA1010 GENERAL REGISTERS BITS 6 AND 14

0023571

-001- 11 #& TBL 7525  
 -001- 12 #& TEST 75  
 -001- 13 #& SEGMENT 4  
 -001- 14 #& PR CSTATS  
 -001- 15 #  
 16 # AN INITIALIZATION HAS FAILED TO CLEAR BIT 7 IN THE MS REGISTER  
 17  
 18 # PROC 06-17 FA1010 GENERAL REGISTERS BITS 7 AND 15

0023571

-001- 21 #& TBL 7526  
 -001- 22 #& TEST 75  
 -001- 23 #& SEGMENT 4  
 -001- 24 #& PR CSTATS  
 -001- 25 #  
 26 # AN INITIALIZATION HAS FAILED TO CLEAR BIT 8 IN THE MS REGISTER  
 27  
 28 # PROC 06-09 FA1010 GENERAL REGISTERS BITS 0 AND 8

0023571

-001- 31 #& TBL 7527  
 -001- 32 #& TEST 75  
 -001- 33 #& SEGMENT 4  
 -001- 34 #& PR CSTATS  
 -001- 35 #  
 36 # AN INITIALIZATION HAS FAILED TO CLEAR BIT 9 IN THE MS REGISTER  
 37  
 38 # PROC 06-10 FA1010 GENERAL REGISTERS BITS 1 AND 9

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 88

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7528 MRFMS10

CSTATS W77D

0023571

-001- 01 #& TBL 7528  
 -001- 02 #& TEST 75  
 -001- 03 #& SEGMENT 4  
 -001- 04 #& PR CSTATS  
 -001- 05 #  
 06 # AN INITIALIZATION HAS FAILED TO CLEAR BIT 10 IN THE MS REGISTER  
 07  
 08 # PROC 06-11 FA1010 GENERAL REGISTERS BITS 2 AND 10

0023571

-001- 11 #& TBL 7529  
 -001- 12 #& TEST 75  
 -001- 13 #& SEGMENT 4  
 -001- 14 #& PR CSTATS  
 -001- 15 #  
 16 # AN INITIALIZATION HAS FAILED TO CLEAR BIT 11 IN THE MS REGISTER  
 17  
 18 # PROC 06-12 FA1010 GENERAL REGISTERS BITS 3 AND 11

0023571

-001- 21 #& TBL 7530  
 -001- 22 #& TEST 75  
 -001- 23 #& SEGMENT 4  
 -001- 24 #& PR CSTATS  
 -001- 25 #  
 26 # AN INITIALIZATION HAS FAILED TO CLEAR BIT 12 IN THE MS REGISTER  
 27  
 28 # PROC 06-13 FA1010 GENERAL REGISTERS BITS 4 AND 12

0023571

-001- 31 #& TBL 7531  
 -001- 32 #& TEST 75  
 -001- 33 #& SEGMENT 4  
 -001- 34 #& PR CSTATS  
 -001- 35 #  
 36 # AN INITIALIZATION HAS FAILED TO CLEAR BIT 13 IN THE MS REGISTER  
 37  
 38 # PROC 06-14 FA1010 GENERAL REGISTERS BITS 5 AND 13

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 89

7532 MRFMS14

CSTATS W770

```

-001- 01 #& TBL 7532
-001- 02 #& TEST 75
-001- 03 #& SEGMENT 4
-001- 04 #& PR CSTATS
-001- 05 #
06 # AN INITIALIZATION HAS FAILED TO CLEAR BIT 14 IN THE MS REGISTER
07 #
08 # PROC 06-16 FA1010 GENERAL REGISTERS BITS 6 AND 14

0023571

-001- 11 #& TBL 7533
-001- 12 #& TEST 75
-001- 13 #& SEGMENT 4
-001- 14 #& PR CSTATS
-001- 15 #
16 # AN INITIALIZATION HAS FAILED TO CLEAR BIT 15 IN THE MS REGISTER
17 #
18 # PROC 06-17 FA1010 GENERAL REGISTERS BITS 7 AND 15

0023571

-001- 21 #& TBL 7534
-001- 22 #& TEST 75
-001- 23 #& SEGMENT 4
-001- 24 #& PR CSTATS
-001- 25 #
26 # AN INITIALIZATION HAS FAILED TO PROCEED THROUGH THE
27 # MICRO SEQUENCE INTO MAIN MEMORY CODE.
28 #
29 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD
30 # INITIALIZATION CIRCUITRY
31 # PROC 02-35 FA1016 MICRO CONTROL 1
32 # PROC 02-34 FA1017 MICRO CONTROL 2
33 # MIR REGISTER SHOULD BE JAMMED TO INITIALIZATION ADDRESS
34 # PROC 02-19 FA1030 MISC. DEC. - REGISTERS BITS 16 AND 18
35 # PROC 02-20 FA1030 MISC. DEC. - REGISTERS BITS 17 AND 19
36 # PROC 06-06 FA1034 CONSOLE AND STATUS PANEL INTERFACE
37 # PROC 06-13 FA1010 GENERAL REGISTERS BITS 4 AND 12
38 # PROC 02-11 FA1024 SPECIAL REGISTERS BITS 3 AND 11
39 # PROC 02-17 FA1024 SPECIAL REGISTERS BITS 7 AND 15
40 # NOTE--3 CTI 02-02 FA1212 CTI BOARD 2
41 # PROC 06-24 FA1012 DML1 BITS 00-07
42 # PROC 10-23 FA1027 ERROR REG/DISPLAY BUFFER LOW BITS
43 # MASCH 08-24 FA1068 MAIN STORE CONTROLLER - BUS CONTROL
44 # MASCH 08-17 FA1062 MAIN STORE CONTROLLER - CHECK CIRCUIT A
45 # PROC 02-27 FA1037 MAINTENANCE CHANNEL CONTROL
46 # PROC 02-26 FC202 MAINTENANCE CHANNEL DISCRETE COMPONENTS
47 # PROC 02-31 FA1023 MICRO CONTROL B
48 # PROC 02-24 FA1033 PROGRAM TIMER/TIMING COUNTER
49 #

0023571

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 90

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7534 FLINIT

CSTATS W77D

0023571

01 # OPTION A  
 02 #  
 03 # MASCN 03-04 JL16 MAIN STORE PLANE - MOD 0 BITS 0 & 8  
 04 # MASCN 03-05 JL16 MAIN STORE PLANE - MOD 0 BITS 1 & 9  
 05 # MASCN 03-06 JL16 MAIN STORE PLANE - MOD 0 BITS 2 & 10  
 06 # MASCN 03-09 JL16 MAIN STORE PLANE - MOD 0 BITS 5 & 13  
 07 # MASCN 03-10 JL16 MAIN STORE PLANE - MOD 0 BITS 6 & 14

-001- 10 #& TBL 7535  
 -001- 11 #& TEST 75  
 -001- 12 #& SEGMENT 5  
 -001- 13 #& PR CSTATS  
 -001- 14 #

0023571

15 # BIT 0 OF THE ER CAN NOT BE CLEARED IN THE STANDBY PROCESSOR.  
 16 #  
 17 # PROC 10-23 FA1027 ERROR REG/DISPLAY BUFFER LOW BITS  
 18 # PROC 02-02 FA1031 "TO" FIELD CHECKER

-001- 21 #& TBL 7536  
 -001- 22 #& TEST 75  
 -001- 23 #& SEGMENT 5  
 -001- 24 #& PR CSTATS  
 -001- 25 #

0023571

26 # BIT 1 OF THE ER CAN NOT BE CLEARED IN THE STANDBY PROCESSOR.  
 27 #  
 28 # PROC 10-23 FA1027 ERROR REG/DISPLAY BUFFER LOW BITS  
 29 # PROC 06-04 FA1031 "FROM" FIELD CHECKER

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 91

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7537 CLRER02

CSTATS W77D

```

-001- 01 #8 TBL 7537
-001- 02 #8 TEST 75
-001- 03 #8 SEGMENT 5
-001- 04 #8 PR CSTATS
-001- 05 #
0023571 06 # BIT 2 OF THE ER CAN NOT BE CLEARED IN THE STANDBY PROCESSOR.
07 #
08 # PROC 10-23 FA1027 ERROR REG/DISPLAY BUFFER LOW BITS
09 # PROC 02-32 FA1022 MICRO CONTROL 7

-001- 12 #8 TBL 7538
-001- 13 #8 TEST 75
-001- 14 #8 SEGMENT 5
-001- 15 #8 PR CSTATS
0023571 -001- 16 #
17 # BIT 3 OF THE ER CAN NOT BE CLEARED IN THE STANDBY PROCESSOR.
18 #
19 # PROC 10-23 FA1027 ERROR REG/DISPLAY BUFFER LOW BITS
20 # PROC 06-20 FA1026 GATING BUS PARITY CHECK AND DML MATCH

-001- 23 #8 TBL 7539
-001- 24 #8 TEST 75
-001- 25 #8 SEGMENT 5
-001- 26 #8 PR CSTATS
0023571 -001- 27 #
28 # BIT 4 OF THE ER CAN NOT BE CLEARED IN THE STANDBY PROCESSOR.
29 #
30 # PROC 10-23 FA1027 ERROR REG/DISPLAY BUFFER LOW BITS
31 # PROC 06-20 FA1026 GATING BUS PARITY CHECK AND DML MATCH

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1c932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 92

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7540 CLRER05

CSTATS W77D

0023571

-001- 01 #& TBL 7540  
 -001- 02 #& TEST 75  
 -001- 03 #& SEGMENT 5  
 -001- 04 #& PR CSTATS  
 -001- 05 #  
 06 # BIT 5 OF THE ER CAN NOT BE CLEARED IN THE STANDBY PROCESSOR.  
 07  
 08 # PROC 10-23 FA1027 ERROR REG/DISPLAY BUFFER LOW BITS  
 09 # PROC 02-31 FA1023 MICRO CONTROL 8

0023571

-001- 12 #& TBL 7541  
 -001- 13 #& TEST 75  
 -001- 14 #& SEGMENT 5  
 -001- 15 #& PR CSTATS  
 -001- 16 #  
 17 # BIT 6 OF THE ER CAN NOT BE CLEARED IN THE STANDBY PROCESSOR.  
 18  
 19 # PROC 10-23 FA1027 ERROR REG/DISPLAY BUFFER LOW BITS  
 20 # PROC 06-31 FA1025 SYSTEM CLOCK

0023571

-001- 23 #& TBL 7542  
 -001- 24 #& TEST 75  
 -001- 25 #& SEGMENT 5  
 -001- 26 #& PR CSTATS  
 -001- 27 #  
 28 # BIT 7 OF THE ER CAN NOT BE CLEARED IN THE STANDBY PROCESSOR.  
 29  
 30 # PROC 10-23 FA1027 ERROR REG/DISPLAY BUFFER LOW BITS

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 93

TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7543 CLRER08

CSTATS W77D

0023571

```

-001- 01 #& TBL 7543
-001- 02 #& TEST 75
-001- 03 #& SEGMENT 5
-001- 04 #& PR CSTATS
-001- 05 #
06 # BIT 8 OF THE ER CAN NOT BE CLEARED IN THE STANDBY PROCESSOR.
07 #
08 # PROC 10-23 FA1027 ERROR REG/DISPLAY BUFFER LOW BITS
09 # PROC 02-32 FA1022 MICRO CONTROL 7

```

0023571

```

-001- 12 #& TBL 7544
-001- 13 #& TEST 75
-001- 14 #& SEGMENT 5
-001- 15 #& PR CSTATS
-001- 16 #
17 # BIT 9 OF THE ER CAN NOT BE CLEARED IN THE STANDBY PROCESSOR.
18 #
19 # PROC 10-23 FA1027 ERROR REG/DISPLAY BUFFER LOW BITS
20 # PROC 02-32 FA1022 MICRO CONTROL 7

```

0023571

```

-001- 23 #& TBL 7545
-001- 24 #& TEST 75
-001- 25 #& SEGMENT 5
-001- 26 #& PR CSTATS
-001- 27 #
28 # BIT 10 OF THE ER CAN NOT BE CLEARED IN THE STANDBY PROCESSOR.
29 #
30 # PROC 10-22 FA1028 ERROR REG/DISPLAY BUFFER HIGH BITS
31 # PROC 02-21 FA1029 MAIN STORE CONTROL 0

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 94

## TROUBLE LOCATION MANUAL

D:39:22 2/06/81 \*\*\*\*

7546 CLRER11

CSTATS W77D

0023571

-001- 01 #8 TBL 7546  
 -001- 02 #8 TEST 75  
 -001- 03 #8 SEGMENT 5  
 -001- 04 #8 PR CSTATS  
 -001- 05 #  
 06 # BIT 11 OF THE ER CAN NOT BE CLEARED IN THE STANDBY PROCESSOR.  
 07 #  
 08 # PROC 10-22 FA1028 ERROR REG/DISPLAY BUFFER HIGH BITS  
 09 # PROC 02-21 FA1029 MAIN STORE CONTROL 0

0023571

-001- 12 #8 TBL 7547  
 -001- 13 #8 TEST 75  
 -001- 14 #8 SEGMENT 5  
 -001- 15 #8 PR CSTATS  
 -001- 16 #  
 17 # BIT 12 OF THE ER CAN NOT BE CLEARED IN THE STANDBY PROCESSOR.  
 18 #  
 19 # PROC 10-22 FA1028 ERROR REG/DISPLAY BUFFER HIGH BITS  
 20 # PROC 02-21 FA1029 MAIN STORE CONTROL 0

0023571

-001- 23 #8 TBL 7548  
 -001- 24 #8 TEST 75  
 -001- 25 #8 SEGMENT 5  
 -001- 26 #8 PR CSTATS  
 -001- 27 #  
 28 # BIT 13 OF THE ER CAN NOT BE CLEARED IN THE STANDBY PROCESSOR.  
 29 #  
 30 # PROC 10-22 FA1028 ERROR REG/DISPLAY BUFFER HIGH BITS  
 31 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD  
 32 # PROC 02-19 FA1030 MISC. DEC. - REGISTERS BITS 16 AND 18

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

D:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 95

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7549 FLMRF

CSTATS W77D

0023571

```

-001- 01 #8 TBL 7549
-001- 02 #8 TEST 75
-001- 03 #8 SEGMENT 5
-001- 04 #8 PR CSTATS
-001- 05 #
06 # ONE OF THE ER BITS 0-9 HAS FAILED TO CAUSE THE LOADING
07 # OF A STOP AND SWITCH MESSAGE INTO THE MAINTENANCE CHANNEL
08 # WITH BHC=0 AND LON=0
09 #
10 # PROC 10-23 FA1027 ERROR REG/DISPLAY BUFFER LOW BITS
11 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD
12 # COMBINING OF ERROR BITS, BHC, LON
13 # PROC 06-10 FA1010 GENERAL REGISTERS BITS 1 AND 9
14 # BHC BIT IN SS BIT 1 AND LON BIT IN SS BIT 9
15 # PROC 02-19 FA1030 MISC. DEC. - REGISTERS BITS 16 AND 18
16 # PROC 02-20 FA1030 MISC. DEC. - REGISTERS BITS 17 AND 19
17 # PROC 02-26 FC202 MAINTENANCE CHANNEL DISCRETE COMPONENTS
18 # PROC 06-31 FA1025 SYSTEM CLOCK
19 # PROC 10-22 FA1028 ERROR REG/DISPLAY BUFFER HIGH BITS
20 # MASCM 08-24 FA1068 MAIN STORE CONTROLLER - BUS CONTROL
21 # MASCM 08-17 FA1062 MAIN STORE CONTROLLER - CHECK CIRCUIT A
22 # PROC 02-37 ED4C156 MICRO STORE 0-1023

```

0023571

```

-001- 25 #8 TBL 7550
-001- 26 #8 TEST 75
-001- 27 #8 SEGMENT 5
-001- 28 #8 PR CSTATS
-001- 29 #
30 # ERROR BITS 0-9 IN THE OFF-LINE ER ARE CAUSING
31 # INITIALIZATION OF THE OFF-LINE CU WITH LON=0
32 #
33 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD
34 # PROC 02-27 FA1037 MAINTENANCE CHANNEL CONTROL

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 96

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7551 FLSMRF

CSTATS W77D

0023571

```

-001- 01 #8 TBL 7551
-001- 02 #8 TEST 75
-001- 03 #8 SEGMENT 5
-001- 04 #8 PR CSTATS
-001- 05 #
06 # AT LEAST ONE OF THE ER BITS 12 OR 13 IN THE
07 # OFF-LINE ER HAS FAILED TO CAUSE AN INITIALIZATION
08 # OF THE OFF-LINE CU WITH BHC=0
09 #
10 # PROC 10-22 FA1028 ERROR REG/DISPLAY BUFFER HIGH BITS
11 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD
12 # PROC 10-23 FA1027 ERROR REG/DISPLAY BUFFER LOW BITS
13 # PROC 02-19 FA1030 MISC. DEC. - REGISTERS BITS 16 AND 18
14 # PROC 02-20 FA1030 MISC. DEC. - REGISTERS BITS 17 AND 19
15 # PROC 06-06 FA1034 CONSOLE AND STATUS PANEL INTERFACE
16 # PROC 06-13 FA1010 GENERAL REGISTERS BITS 4 AND 12
17 # PROC 02-33 FA1018 MICRO CONTROL 3
18 # PROC 06-10 FA1010 GENERAL REGISTERS BITS 1 AND 9
19 # PROC 02-27 FA1037 MAINTENANCE CHANNEL CONTROL
20 # PROC 02-31 FA1023 MICRO CONTROL 8
21 # PROC 02-22 FA1029 MAIN STORE CONTROL 1
22 # PROC 02-02 FA1031 "TO" FIELD CHECKER
23 # PROC 06-34 FA1045 "TO" FIELD DECODER

```

0023571

```

-001- 26 #8 TBL 7552
-001- 27 #8 TEST 75
-001- 28 #8 SEGMENT 5
-001- 29 #8 PR CSTATS
-001- 30 #
31 # AT LEAST ONE OF THE ER BITS 11, 14-19, PL OR PH HAS FAILED
32 # TO SET BET INTERRUPT BIT "ERRI".
33 #
34 # PROC 10-22 FA1028 ERROR REG/DISPLAY BUFFER HIGH BITS
35 # PROC 02-13 FA1024 SPECIAL REGISTERS BITS 5 AND 13
36 # "ERRI" IS IN 'IS' REGISTER BIT 9
37 # PROC 06-14 FA1010 GENERAL REGISTERS BITS 5 AND 13

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 97

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7553 FLBHCSW

CSTATS W770

0023571

```

-001- 01 #& TBL 7553
-001- 02 #& TEST 75
-001- 03 #& SEGMENT 6
-001- 04 #& PR CSTATS
-001- 05 #
06 # THE "BHC" BIT IN THE SS HAS FAILED TO INHIBIT ER BITS
07 # 0-9 FROM PERFORMING A STOP AND SWITCH
08 #
09 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD
10 # COMBINING ERROR INDICATION WITH "BHC"
11 # PROC 06-10 FA1010 GENERAL REGISTERS BITS 1 AND 9
12 # "BHC" IN SS BIT 1

```

0023571

```

-001- 15 #& TBL 7554
-001- 16 #& TEST 75
-001- 17 #& SEGMENT 6
-001- 18 #& PR CSTATS
-001- 19 #
20 # THE "BHC" BIT IN THE SS HAS FAILED TO INHIBIT
21 # AN INITIALIZATION CAUSED BY ER BITS 11-13
22 #
23 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD

```

0023571

```

-001- 26 #& TBL 7555
-001- 27 #& TEST 75
-001- 28 #& SEGMENT 5
-001- 29 #& PR CSTATS
-001- 30 #
31 # THE "MFSTM " ERROR BIT DOES NOT GET SET IN THE OFF-LINE CU WHEN
32 # THE "DR" IS CLEARED AND THE ON-LINE CU TIMES FOR 60 MICRO SECONDS.
33 #
34 # PROC 10-22 FA1028 ERROR REG/DISPLAY BUFFER HIGH BITS
35 # PROC 02-21 FA1029 MAIN STORE CONTROL 0
36 # PROC 06-31 FA1025 SYSTEM CLOCK

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 98

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7556 FLOFTM

CSTATS W77D

0023571

-001- 01 #& TBL 7556  
 -001- 02 #& TEST 75  
 -001- 03 #& SEGMENT 5  
 -001- 04 #& PR CSTATS  
 -001- 05 #  
 06 # THE "OFSTM" ERROR BIT DOES NOT GET SET IN THE OFF-LINE CU WHEN  
 07 # THE "DR" IS CLEARED AND THE ON-LINE TIMES FOR 60 MICRO SECONDS.  
 08 #  
 09 # PROC 10-22 FA1028 ERROR REG/DISPLAY BUFFER HIGH BITS  
 10 # PROC 02-22 FA1029 MAIN STORE CONTROL 1  
 11 # PROC 06-31 FA1025 SYSTEM CLOCK

0023571

-001- 14 #& TBL 7601  
 -001- 15 #& TEST 76  
 -001- 16 #& SEGMENT 1  
 -001- 17 #& PR CSTATS  
 -001- 18 #  
 19 # THE BTC (BLOCK TIMING CHECK) BIT IN THE SS REGISTER HAS  
 20 # FAILED TO INHIBIT THE PROGRAM TIMER FROM LOADING A  
 21 # SWITCH MESSAGE INTO THE MAINTENANCE CHANNEL  
 22 #  
 23 # PROC 02-24 FA1033 PROGRAM TIMER/TIMING COUNTER  
 24 # PROC 06-12 FA1010 GENERAL REGISTERS BITS 3 AND 11  
 25 # BTC BIT  
 26 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD

0023571

-001- 29 #& TBL 7602  
 -001- 30 #& TEST 76  
 -001- 31 #& SEGMENT 1  
 -001- 32 #& PR CSTATS  
 -001- 33 #  
 34 # THE BTC (BLOCK TIMING CHECK) BIT IN THE SS REGISTER HAS  
 35 # FAILED TO INHIBIT THE OFF-LINE PROGRAM TIMER FROM  
 36 # CAUSING AN INITIALIZATION OF THE OFF-LINE CU ON THE  
 37 # SECOND TIMEOUT  
 38 #  
 39 # PROC 02-24 FA1033 PROGRAM TIMER/TIMING COUNTER  
 40 # PROC 06-12 FA1010 GENERAL REGISTERS BITS 3 AND 11

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 99

TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7603 BDN1ST

CSTATS W77D

0023571

```

-001- 01 #& TBL 7603
-001- 02 #& TEST 76
-001- 03 #& SEGMENT 1
-001- 04 #& PR CSTATS
-001- 05 #
06 # THE PROGRAM TIMER HAS CAUSED LOADING OF A
07 # SWITCH MESSAGE INTO THE MAINTENANCE CHANNEL WITH CC=0
08 # ON THE FIRST TIMEOUT.
09 #
10 # PROC 02-24 FA1033 PROGRAM TIMER/TIMING COUNTER
11 # PROC 06-13 FA1010 GENERAL REGISTERS BITS 4 AND 12
12 # CC FLOP IN SS BIT A

```

0023571

```

-001- 15 #& TBL 7604
-001- 16 #& TEST 76
-001- 17 #& SEGMENT 1
-001- 18 #& PR CSTATS
-001- 19 #
20 # THE OFF-LINE PROGRAM TIMER HAS FAILED TO CAUSE INITIALIZATION
21 # OF THE OFF-LINE CU ON THE FIRST TIMEOUT WITH CC=0
22 # AND BTC=0
23 # ***** THE OFF-LINE CU MAY BE IN TEST MODE REVERSAL *****
24 #
25 # PROC 02-24 FA1033 PROGRAM TIMER/TIMING COUNTER
26 # PROC 10-23 FA1027 ERROR REG/DISPLAY BUFFER LOW BITS
27 # PROC 06-12 FA1010 GENERAL REGISTERS BITS 3 AND 11
28 # BTC MAY BE STUCK
29 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD
30 # PROC 06-06 FA1034 CONSOLE AND STATUS PANEL INTERFACE

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 100

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7605 BDSTSW1

CSTATS W77D

0023571

-001- 01 #& TBL 7605  
 -001- 02 #& TEST 76  
 -001- 03 #& SEGMENT 1  
 -001- 04 #& PR CSTATS  
 -001- 05 #  
 06 # THE PROGRAM TIMER HAS FAILED TO LOAD A SWITCH  
 07 # MESSAGE INTO THE MAINTENANCE CHANNEL ON THE FIRST TIMEOUT  
 08 # WITH CC=1 AND BTC=0  
 09 #  
 10 # PROC 02-24 FA1033 PROGRAM TIMER/TIMING COUNTER  
 11 # PROC 06-13 FA1010 GENERAL REGISTERS BITS 4 AND 12  
 12 # CC FLOP IN SS BIT 4  
 13 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD

0023571

-001- 16 #& TBL 7606  
 -001- 17 #& TEST 76  
 -001- 18 #& SEGMENT 1  
 -001- 19 #& PR CSTATS  
 -001- 20 #  
 21 # THE PROGRAM TIMER IN THE OFF-LINE PROCESSOR HAS  
 22 # CAUSED AN INITIALIZATION OF THE OFF-LINE CU ON THE  
 23 # FIRST TIMEOUT WITH CC=1  
 24 #  
 25 # PROC 02-24 FA1033 PROGRAM TIMER/TIMING COUNTER  
 26 # PROC 02-27 FA1037 MAINTENANCE CHANNEL CONTROL  
 27 # PROC 02-26 FC202 MAINTENANCE CHANNEL DISCRETE COMPONENTS

0023571

-001- 30 #& TBL 7607  
 -001- 31 #& TEST 76  
 -001- 32 #& SEGMENT 1  
 -001- 33 #& PR CSTATS  
 -001- 34 #  
 35 # THE PROGRAM TIMER HAS FAILED TO CAUSE AN INITIALIZATION  
 36 # ON THE SECOND TIMEOUT  
 37 #  
 38 # PROC 02-24 FA1033 PROGRAM TIMER/TIMING COUNTER  
 39 # PROC 02-27 FA1037 MAINTENANCE CHANNEL CONTROL

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 101

TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7608 PTRCC

CSTATS W77D

0023571

```

-001- 01 #8 TBL 7608
-001- 02 #8 TEST 76
-001- 03 #8 SEGMENT 2
-001- 04 #8 PR CSTATS
-001- 05 #
06 # THE MAINTENANCE CHANNEL ORDER "CLPT" HAS CLEARED THE
07 # PROGRAM WITH THE CC FLOP=1. THIS FUNCTION SHOULD BE INHIBITED
08 #
09 # PROC 02-27 FA1037 MAINTENANCE CHANNEL CONTROL
10 # COMBINING OF MAINTENANCE CHANNEL ORDERS AND CC FLOP

```

0023571

```

-001- 13 #8 TBL 7609
-001- 14 #8 TEST 76
-001- 15 #8 SEGMENT 2
-001- 16 #8 PR CSTATS
-001- 17 #
18 # THE MAINTENANCE CHANNEL ORDER "CLPT" HAS FAILED TO SET
19 # THE "PTER" ERROR BIT FOR THE CASE CC=1.
20 #
21 # PROC 02-27 FA1037 MAINTENANCE CHANNEL CONTROL
22 # COMBINING OF MAINTENANCE CHANNEL ORDERS AND CC FLOP
23 # PROC 10-22 FA1028 ERROR REG/DISPLAY BUFFER HIGH BITS

```

0023571

```

-001- 26 #8 TBL 7610
-001- 27 #8 TEST 76
-001- 28 #8 SEGMENT 2
-001- 29 #8 PR CSTATS
-001- 30 #
31 # A MAINTENANCE CHANNEL SWITCH ORDER WHEN RECEIVED BY THE
32 # "OFF-LINE" PROCESSOR HAS CAUSED AN INITIALIZATION WHEN
33 # THE CC FLOP =1. THIS FUNCTION SHOULD BE INHIBITED.
34 #
35 # PROC 02-27 FA1037 MAINTENANCE CHANNEL CONTROL
36 # COMBINING OF MAINTENANCE CHANNEL ORDERS WITH CC FLOP
37 # NOTE--3 DMA 02-16 FC392 DMA OTHER STORE BUS CONTROL

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 102

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7611 FLSNR

CSTATS W77D

0023571

```

-001- 01 #& TBL 7611
-001- 02 #& TEST 76
-001- 03 #& SEGMENT 2
-001- 04 #& PR CSTATS
-001- 05 #
06 # A MAINTENANCE CHANNEL SWITCH ORDER HAS FAILED TO
07 # SET THE "SWER" ERROR BIT WHEN THE CC FLOP =1
08 #
09 # PROC 02-27 FA1037 MAINTENANCE CHANNEL CONTROL
10 # COMBINING OF MAINTENANCE CHANNEL ORDERS WITH CC FLOP
11 # PROC 10-22 FA1028 ERROR REG/DISPLAY BUFFER HIGH BITS

```

0023571

```

-001- 14 #& TBL 7612
-001- 15 #& TEST 76
-001- 16 #& SEGMENT 2
-001- 17 #& PR CSTATS
-001- 18 #
19 # THE "LDMAR" MAINTENANCE CHANNEL ORDER WAS NOT
20 # INHIBITED BY THE CC FLOP =1.
21 #
22 # PROC 02-27 FA1037 MAINTENANCE CHANNEL CONTROL

```

0023571

```

-001- 25 #& TBL 7613
-001- 26 #& TEST 76
-001- 27 #& SEGMENT 2
-001- 28 #& PR CSTATS
-001- 29 #
30 # THE "MSTART" MAINTENANCE CHANNEL ORDER WAS NOT
31 # INHIBITED BY THE CC FLOP =1.
32 #
33 # PROC 02-27 FA1037 MAINTENANCE CHANNEL CONTROL

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 103

TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7614 FLCCSTP

CSTATS W77D

0023571

```

-001- 01 #& TBL 7614
-001- 02 #& TEST 76
-001- 03 #& SEGMENT 2
-001- 04 #& PR CSTATS
-001- 05 #
06 # THE "MSTOP" MAINTENANCE CHANNEL ORDER WAS NOT
07 # INHIBITED BY THE CC FLOP =1.
08
09 # PROC 02-27 FA1037 MAINTENANCE CHANNEL CONTROL

```

0023571

```

-001- 12 #& TBL 7615
-001- 13 #& TEST 76
-001- 14 #& SEGMENT 3
-001- 15 #& PR CSTATS
-001- 16 #
17 # THE BA ERROR BIT FIRED WHEN IT SHOULD NOT HAVE
18
19 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD
20 # PROC 10-22 FA1028 ERROR REG/DISPLAY BUFFER HIGH BITS
21 # PROC 02-19 FA1030 MISC. DEC. - REGISTERS BITS 16 AND 18

```

0023571

```

-001- 24 #& TBL 7616
-001- 25 #& TEST 76
-001- 26 #& SEGMENT 3
-001- 27 #& PR CSTATS
-001- 28 #
29 # THE BA ERROR BIT HAS FAILED TO FIRE.
30
31 # PROC 02-25 FA1032 MISCELLANEOUS CIRCUIT BOARD
32 # PROC 10-22 FA1028 ERROR REG/DISPLAY BUFFER HIGH BITS
33 # PROC 02-19 FA1030 MISC. DEC. - REGISTERS BITS 16 AND 18

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 104

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7617 FLSNTY

CSTATS W77D

-001- 01 #& TBL 7617  
 -001- 02 #& TEST 76  
 -001- 03 #& SEGMENT 5  
 -001- 04 #& PR CSTATS  
 -001- 05 #  
 06 # THE OFF-LINE SANITY TEST HAS FAILED EVEN THOUGH DIAGNOSTICS HAVE  
 07 # PASSED. SINCE DIAGNOSTICS HAVE FAILED TO RESOLVE THE TROUBLE,  
 08 # NO CIRCUIT PACKS APPEAR FOR THIS TROUBLE NUMBER. THE BACKUP  
 09 # PROCEDURES PROVIDED IN SECTION B OF THE TROUBLE LOCATING MANUAL  
 10 # WILL HAVE TO BE EMPLOYED.

-001- 13 #& TBL 7618  
 -001- 14 #& TEST 76  
 -001- 15 #& SEGMENT 5  
 -001- 16 #& PR CSTATS  
 -001- 17 #  
 18 # RUNNING OF THE OFF-LINE SANITY TEST HAS CAUSED AN ERROR CIRCUIT  
 19 # TO FIRE EVEN THOUGH DIAGNOSTICS HAVE PASSED. THE OFF-LINE ERROR  
 20 # REGISTER IS GIVEN IN THE DATA WORD OF THE FAILURE MESSAGE.  
 21 # SINCE DIAGNOSTICS HAVE FAILED TO RESOLVE THE TROUBLE,  
 22 # NO CIRCUIT PACKS APPEAR FOR THIS TROUBLE NUMBER. THE BACKUP  
 23 # PROCEDURES PROVIDED IN SECTION B OF THE TROUBLE LOCATING MANUAL  
 24 # WILL HAVE TO BE EMPLOYED.

-001- 27 #& TBL 7619  
 -001- 28 #& TEST 76  
 -001- 29 #& SEGMENT 4  
 -001- 30 #& PR CSTATS  
 -001- 31 #  
 32 # THE AUXILIARY CONTROL 2/4 CODE B(1100) HAS FAILED TO ENABLE THE  
 33 # "IO" BIT IN THE ERROR REGISTER WITH AN I/O MISMATCH IN R10 AND R11.  
 34 #  
 35 # PROC 02-32 FA1022 MICRO CONTROL 7  
 36 # PROC 06-20 FA1026 GATING BUS PARITY CHECK AND DML MATCH  
 37 # PROC 10-22 FA1028 ERROR REG/DISPLAY BUFFER HIGH BITS

0023571

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 105

TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7620 FLIOPAR

CSTATS W77D

0023571

```

-001- 01 #& TBL 7620
-001- 02 #& TEST 76
-001- 03 #& SEGMENT 4
-001- 04 #& PR CSTATS
-001- 05 #
06 # THE AUXILIARY CONTROL 2/4 CODE B(1010) HAS FAILED TO ENABLE THE
07 # "IOPAR" BIT IN THE ERROR REGISTER WHEN AN I/O PARITY ERROR IS PRESENT.
08 #
09 # PROC 02-32 FA1022 MICRO CONTROL 7
10 # PROC 06-20 FA1026 GATING BUS PARITY CHECK AND DML MATCH
11 # PROC 10-22 FA1028 ERROR REG/DISPLAY BUFFER HIGH BITS

```

0023571

```

-001- 14 #& TBL 7621
-001- 15 #& TEST 76
-001- 16 #& SEGMENT 4
-001- 17 #& PR CSTATS
-001- 18 #
19 # THE AUXILIARY CONTROL 2/4 CODE B(1010) HAS FAILED TO DISABLE
20 # ERROR BIT "BUS" WHEN AN I/O PARITY ERROR IS GATED OVER THE GATING BUS.
21 #
22 # PROC 02-32 FA1022 MICRO CONTROL 7
23 # PROC 06-20 FA1026 GATING BUS PARITY CHECK AND DML MATCH
24 # PROC 10-23 FA1027 ERROR REG/DISPLAY BUFFER LOW BITS

```

0023571

```

-001- 27 #& TBL 7622
-001- 28 #& TEST 76
-001- 29 #& SEGMENT 4
-001- 30 #& PR CSTATS
-001- 31 #
32 # THE AUXILIARY CONTROL 2/4 CODE B(1100) HAS FAILED TO DISABLE
33 # ERROR BIT "DML" WHEN A MISMATCH IS DETECTED IN R10 AND R11 AS A RESULT
34 # OF AN I/O COMMAND.
35 #
36 # PROC 02-32 FA1022 MICRO CONTROL 7
37 # PROC 06-20 FA1026 GATING BUS PARITY CHECK AND DML MATCH
38 # PROC 10-23 FA1027 ERROR REG/DISPLAY BUFFER LOW BITS
39 # PROC 06-21 FA1013 DML1 BITS 16-19

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 106

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7701 NOIOAC

CSTATS W770

```

-001- 01 #& TBL 7701
-001- 02 #& TEST 77
-001- 03 #& SEGMENT 1
-001- 04 #& PR CSTATS
-001- 05 #
06 # THE ON-LINE PROCESSOR HAS NO I/O COMMUNICATION WITH THE
07 # SYSTEM STATUS PANEL.
08 #
0023571 09 # MTCE 02-28 FC208 SSP DISCRETE BOARD
10 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1
0023571 11 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2
12 #
13 # ##### ON-LINE PACKS #####
14 # PROC 10-03 FA1038 I/O CHAN 0 CONTROL
15 # PROC 10-04 FA1039 I/O CHAN 0 CONTROL
16 # PROC 10-05 FC201 I/O CHAN 0 LOW SUB-CHAN

-001- 19 #& TBL 7702
-001- 20 #& TEST 77
-001- 21 #& SEGMENT 1
-001- 22 #& PR CSTATS
-001- 23 #
0023571 24 # THE ON-LINE PROCESSOR SENT AN I/O MESSAGE TO THE SYSTEM STATUS
25 # PANEL AND RECEIVED AN ERROR RESPONSE.
26 #
27 # MTCE 02-28 FC208 SSP DISCRETE BOARD
28 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1
0023571 29 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2
30 #
31 # ##### ON-LINE PACKS #####
32 # PROC 10-03 FA1038 I/O CHAN 0 CONTROL
33 # PROC 10-04 FA1039 I/O CHAN 0 CONTROL
34 # PROC 10-05 FC201 I/O CHAN 0 LOW SUB-CHAN

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 107

TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7703 FL1SRSD

CSTATS W77D

0023571

-001- 01 #& TBL 7703  
 -001- 02 #& TEST 77  
 -001- 03 #& SEGMENT 2  
 -001- 04 #& PR CSTATS  
 -001- 05 #  
 06 # SYSTEM STATUS PANEL GAVE NO RESPONSE OR ERROR RESPONSE IN AN  
 07 # ATTEMPT TO SET A REGISTER TO ALL ONES. THE DATA WORD  
 08 # IS THE ADDRESS WHICH WAS ACCESSED.  
 09 #  
 10 # PROC 10-03 FA1038 I/O CHAN 0 CONTROL  
 11 # PROC 10-04 FA1039 I/O CHAN 0 CONTROL  
 12 # PROC 10-05 FC201 I/O CHAN 0 LOW SUB-CHAN  
 13 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1  
 14 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2  
 15 # MTCE 02-28 FC208 SSP DISCRETE BOARD  
 16 # NOTE--3 CTI 02-02 FA1212 CTI BOARD 2

0023571

-001- 19 #& TBL 7704  
 -001- 20 #& TEST 77  
 -001- 21 #& SEGMENT 2  
 -001- 22 #& PR CSTATS  
 -001- 23 #  
 24 # SYSTEM STATUS PANEL GAVE NO RESPONSE OR ERROR RESPONSE IN AN  
 25 # ATTEMPT TO SET A REGISTER TO ALL ONES. THE DATA WORD  
 26 # IS THE ADDRESS WHICH WAS ACCESSED.  
 27 #  
 28 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1  
 29 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50.

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 108

TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7705 FL1SR52

CSTATS W770

0023571

-001- 01 #& TBL 7705  
 -001- 02 #& TEST 77  
 -001- 03 #& SEGMENT 2  
 -001- 04 #& PR CSTATS  
 -001- 05 #  
 06 # SYSTEM STATUS PANEL GAVE NO RESPONSE OR ERROR RESPONSE IN AN  
 07 # ATTEMPT TO SET A REGISTER TO ALL ONES. THE DATA WORD  
 08 # IS THE ADDRESS WHICH WAS ACCESSED.  
 09 #  
 10 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1  
 11 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2

0023571

-001- 14 #& TBL 7706  
 -001- 15 #& TEST 77  
 -001- 16 #& SEGMENT 2  
 -001- 17 #& PR CSTATS  
 -001- 18 #  
 19 # SYSTEM STATUS PANEL GAVE NO RESPONSE OR ERROR RESPONSE IN AN  
 20 # ATTEMPT TO SET A REGISTER TO ALL ONES. THE DATA WORD  
 21 # IS THE ADDRESS WHICH WAS ACCESSED.  
 22 #  
 23 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1  
 24 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2

0023571

-001- 27 #& TBL 7707  
 -001- 28 #& TEST 77  
 -001- 29 #& SEGMENT 2  
 -001- 30 #& PR CSTATS  
 -001- 31 #  
 32 # I/O RESPONSE WAS RECEIVED IN AN ATTEMPT TO SET A REGISTER  
 33 # OF THE SYSTEM STATUS PANEL TO ALL ONES BUT THE DATA WAS BAD.  
 34 # THE FIRST DATA WORD IS THE ADDRESS CODE USED. THE SECOND  
 35 # DATA WORD HIGH 8 BITS REPRESENT THE 8 BIT REGISTER.  
 36 # SOME BITS IN SOME REGISTERS ARE NOT PROGRAM ADDRESSABLE.  
 37 # FOR ADDRESS 0(34), THE LOW TWO BITS ARE INDETERMINATE  
 38 #  
 39 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1  
 40 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2  
 41 # MTCE 02-21 FA1100 SSP MEMORY BOARD 4  
 42 # PROC 10-03 FA1038 I/O CHAN 0 CONTROL  
 43 # PROC 10-04 FA1039 I/O CHAN 0 CONTROL  
 44 # PROC 10-05 FC201 I/O CHAN 0 LOW SUB-CHAN  
 45 # NOTE--3 CTI 02-02 FA1212 CTI BOARD 2

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 109

TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7708 FLBDDT11

CSTATS W77D

0023571

```

-001- 01 #& TBL 7708
-001- 02 #& TEST 77
-001- 03 #& SEGMENT 2
-001- 04 #& PR CSTATS
-001- 05 #
06 # I/O RESPONSE WAS RECEIVED IN AN ATTEMPT TO SET A REGISTER
07 # OF THE SYSTEM STATUS PANEL TO ALL ONES BUT THE DATA WAS BAD.
08 # THE FIRST DATA WORD IS THE ADDRESS CODE USED. THE SECOND
09 # DATA WORD HIGH EIGHT BITS REPRESENT THE 8 BIT REGISTER.
10 #
11 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1
12 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2
13 # MTCE 02-22 FA1100 SSP MEMORY BOARD 3

```

0023571

```

-001- 16 #& TBL 7709
-001- 17 #& TEST 77
-001- 18 #& SEGMENT 2
-001- 19 #& PR CSTATS
-001- 20 #
21 # I/O RESPONSE WAS RECEIVED IN AN ATTEMPT TO SET A REGISTER
22 # OF THE SYSTEM STATUS PANEL TO ALL ONES BUT THE DATA WAS BAD.
23 # THE FIRST DATA WORD IS THE ADDRESS CODE USED. THE SECOND
24 # DATA WORD HIGH EIGHT BITS REPRESENT THE 8 BIT REGISTER.
25 # SOME BITS IN SOME REGISTERS ARE NOT PROGRAM ADDRESSABLE.
26 # FOR ADDRESS 0(16), THE LOW TWO BITS ARE INDETERMINATE
27 #
28 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1
29 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2
30 # MTCE 02-23 FA1100 SSP MEMORY BOARD 2

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 110

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7710 FLBDDT13

CSTATS W77D

-001- 01 #& TBL 7710  
 -001- 02 #& TEST 77  
 -001- 03 #& SEGMENT 2  
 -001- 04 #& PR CSTATS  
 -001- 05 #

0023571

06 # I/O RESPONSE WAS RECEIVED IN AN ATTEMPT TO SET A REGISTER  
 07 # OF THE SYSTEM STATUS PANEL TO ALL ONES BUT THE DATA WAS BAD.  
 08 # THE FIRST DATA WORD IS THE ADDRESS CODE USED. THE SECOND  
 09 # DATA WORD HIGH EIGHT BITS REPRESENT THE 8 BIT REGISTER.  
 10 # SOME BITS IN SOME REGISTERS ARE NOT PROGRAM ADDRESSABLE.  
 11 # FOR ADDRESS 0(07), THE LOW FOUR BITS ARE INDETERMINATE  
 12 #  
 13 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1  
 14 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2  
 15 # MTCE 02-24 FA1100 SSP MEMORY BOARD 1

-001- 18 #& TBL 7711  
 -001- 19 #& TEST 77  
 -001- 20 #& SEGMENT 2  
 -001- 21 #& PR CSTATS  
 -001- 22 #

0023571

23 # SYSTEM STATUS PANEL GAVE NO RESPONSE OR ERROR RESPONSE IN AN  
 24 # ATTEMPT TO SET A REGISTER TO ALL ZEROS. THE DATA WORD  
 25 # IS THE ADDRESS WHICH WAS ACCESSED.  
 26 #  
 27 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1  
 28 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2  
 29 # PROC 10-03 FA1038 I/O CHAN 0 CONTROL  
 30 # PROC 10-04 FA1039 I/O CHAN 0 CONTROL  
 31 # PROC 10-05 FC201 I/O CHAN 0 LOW SUB-CHAN

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 111

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7712 FLOSR51

CSTATS W77D

0023571

```

-001- 01 #8 TBL 7712
-001- 02 #8 TEST 77
-001- 03 #8 SEGMENT 2
-001- 04 #8 PR CSTATS
-001- 05 #
06 # SYSTEM STATUS PANEL GAVE NO RESPONSE OR ERROR RESPONSE IN AN
07 # ATTEMPT TO SET A REGISTER TO ALL ZEROS. THE DATA WORD
08 # IS THE ADDRESS WHICH WAS ACCESSED.
09 #
10 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1
11 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2

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0023571

```

-001- 14 #8 TBL 7713
-001- 15 #8 TEST 77
-001- 16 #8 SEGMENT 2
-001- 17 #8 PR CSTATS
-001- 18 #
19 # SYSTEM STATUS PANEL GAVE NO RESPONSE OR ERROR RESPONSE IN AN
20 # ATTEMPT TO SET A REGISTER TO ALL ZEROS. THE DATA WORD
21 # IS THE ADDRESS WHICH WAS ACCESSED.
22 #
23 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1
24 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2

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0023571

```

-001- 27 #8 TBL 7714
-001- 28 #8 TEST 77
-001- 29 #8 SEGMENT 2
-001- 30 #8 PR CSTATS
-001- 31 #
32 # SYSTEM STATUS PANEL GAVE NO RESPONSE OR ERROR RESPONSE IN AN
33 # ATTEMPT TO SET A REGISTER TO ALL ZEROS. THE DATA WORD
34 # IS THE ADDRESS WHICH WAS ACCESSED.
35 #
36 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1
37 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2

```

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 112

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7715 FLBDDT00

CSTATS W77D

-001- 01 #& TBL 7715  
 -001- 02 #& TEST 77  
 -001- 03 #& SEGMENT 2  
 -001- 04 #& PR CSTATS  
 -001- 05 #

06 # I/O RESPONSE WAS RECEIVED IN AN ATTEMPT TO SET A REGISTER  
 07 # OF THE SYSTEM STATUS PANEL TO ALL ZEROS BUT THE DATA WAS BAD.  
 08 # THE FIRST DATA WORD IS THE ADDRESS CODE USED. THE SECOND  
 09 # DATA WORD LOW EIGHT BITS REPRESENT THE 8 BIT REGISTER.  
 10 # SOME BITS IN SOME REGISTERS ARE NOT PROGRAM ADDRESSABLE.  
 11 # FOR ADDRESS 0(34), THE LOW TWO BITS ARE INDETERMINATE  
 12 # SINCE A STUCK BIT ON ANY OF THE FOUR SSP MEMORY BOARDS  
 13 # WILL SHOW UP WHEN ACCESSED BY ANY ADDRESS, ANY OF THE  
 14 # FOUR FA1100 BOARDS MAY BE FAULTY IF THE FIRST DATA WORD  
 15 # IS 0(45).  
 16 #

0023571

17 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1  
 18 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2  
 19 # MTCE 02-21 FA1100 SSP MEMORY BOARD 4  
 20 # PROC 10-03 FA1038 I/O CHAN 0 CONTROL  
 21 # PROC 10-04 FA1039 I/O CHAN 0 CONTROL  
 22 # PROC 10-05 FC201 I/O CHAN 0 LOW SUB-CHAN  
 23 # MTCE 02-24 FA1100 SSP MEMORY BOARD 1  
 24 # MTCE 02-23 FA1100 SSP MEMORY BOARD 2  
 25 # MTCE 02-22 FA1100 SSP MEMORY BOARD 3

-001- 28 #& TBL 7716  
 -001- 29 #& TEST 77  
 -001- 30 #& SEGMENT 2  
 -001- 31 #& PR CSTATS  
 -001- 32 #

33 # I/O RESPONSE WAS RECEIVED IN AN ATTEMPT TO SET A REGISTER  
 34 # OF THE SYSTEM STATUS PANEL TO ALL ZEROS BUT THE DATA WAS BAD.  
 35 # THE FIRST DATA WORD IS THE ADDRESS CODE USED. THE SECOND  
 36 # DATA WORD LOW EIGHT BITS REPRESENT THE 8 BIT REGISTER.  
 37 #

0023571

38 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1  
 39 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2  
 40 # MTCE 02-22 FA1100 SSP MEMORY BOARD 3

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 113

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7717 FLBDDT02

CSTATS W77D

0023571

-001- 01 #& TBL 7717  
 -001- 02 #& TEST 77  
 -001- 03 #& SEGMENT 2  
 -001- 04 #& PR CSTATS  
 -001- 05 #  
 06 # I/O RESPONSE WAS RECEIVED IN AN ATTEMPT TO SET A REGISTER  
 07 # OF THE SYSTEM STATUS PANEL TO ALL ZEROS BUT THE DATA WAS BAD.  
 08 # THE FIRST DATA WORD IS THE ADDRESS CODE USED. THE SECOND  
 09 # DATA WORD LOW EIGHT BITS REPRESENT THE 8 BIT REGISTER.  
 10 # SOME BITS IN SOME REGISTERS ARE NOT PROGRAM ADDRESSABLE.  
 11 # FOR ADDRESS 0(16), THE LOW TWO BITS ARE INDETERMINATE  
 12 #  
 13 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1  
 14 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2  
 15 # MTCE 02-23 FA1100 SSP MEMORY BOARD 2

0023571

-001- 18 #& TBL 7718  
 -001- 19 #& TEST 77  
 -001- 20 #& SEGMENT 2  
 -001- 21 #& PR CSTATS  
 -001- 22 #  
 23 # I/O RESPONSE WAS RECEIVED IN AN ATTEMPT TO SET A REGISTER  
 24 # OF THE SYSTEM STATUS PANEL TO ALL ZEROS BUT THE DATA WAS BAD.  
 25 # THE FIRST DATA WORD IS THE ADDRESS CODE USED. THE SECOND  
 26 # DATA WORD LOW EIGHT BITS REPRESENT THE 8 BIT REGISTER.  
 27 # SOME BITS IN SOME REGISTERS ARE NOT PROGRAM ADDRESSABLE.  
 28 # FOR ADDRESS 0(07), THE LOW FOUR BITS ARE INDETERMINATE  
 29 #  
 30 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1  
 31 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2  
 32 # MTCE 02-24 FA1100 SSP MEMORY BOARD 1

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 114

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7719 FLRDO

CSTATS W77D

-001- 01 #& TBL 7719  
 -001- 02 #& TEST 77  
 -001- 03 #& SEGMENT 4  
 -001- 04 #& PR CSTATS  
 -001- 05 #

06 # THE READ ONLY I/O COMMAND HAS CAUSED A WRITE INTO A  
 07 # SYSTEM STATUS PANEL REGISTER. THE FIRST DATA WORD IS  
 08 # THE ADDRESS AND THE SECOND DATA WORD LOW EIGHT BITS  
 09 # IS THE 8 BIT REGISTER CONTENT. SOME BITS IN SOME  
 10 # REGISTERS ARE NOT PROGRAM ADDRESSABLE  
 11 # FOR ADDRESS 0(34), THE LOW TWO BITS ARE INDETERMINATE  
 12 #

0023571

13 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1  
 14 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2  
 15 # MTCE 02-21 FA1100 SSP MEMORY BOARD 4

-001- 18 #& TBL 7720  
 -001- 19 #& TEST 77  
 -001- 20 #& SEGMENT 4  
 -001- 21 #& PR CSTATS  
 -001- 22 #

23 # THE READ ONLY I/O COMMAND HAS CAUSED A WRITE INTO A  
 24 # SYSTEM STATUS PANEL REGISTER. THE FIRST DATA WORD IS  
 25 # THE ADDRESS AND THE SECOND DATA WORD LOW EIGHT BITS  
 26 # IS THE 8 BIT REGISTER CONTENT.  
 27 #

0023571

28 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1  
 29 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2  
 30 # MTCE 02-22 FA1100 SSP MEMORY BOARD 3

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7721 FLRD2

CSTATS W77D

0023571

-001- 01 #& TBL 7721  
 -001- 02 #& TEST 77  
 -001- 03 #& SEGMENT 4  
 -001- 04 #& PR CSTATS  
 -001- 05 #  
 06 # THE READ ONLY I/O COMMAND HAS CAUSED A WRITE INTO A  
 07 # SYSTEM STATUS PANEL REGISTER. THE FIRST DATA WORD IS  
 08 # THE ADDRESS AND THE SECOND DATA WORD LOW EIGHT BITS  
 09 # IS THE 8 BIT REGISTER CONTENT. SOME BITS IN SOME  
 10 # REGISTERS ARE NOT PROGRAM ADDRESSABLE  
 11 # FOR ADDRESS 0(16), THE LOW TWO BITS ARE INDETERMINATE  
 12 #  
 13 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1  
 14 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2  
 15 # MTCE 02-23 FA1100 SSP MEMORY BOARD 2

0023571

-001- 18 #& TBL 7722  
 -001- 19 #& TEST 77  
 -001- 20 #& SEGMENT 4  
 -001- 21 #& PR CSTATS  
 -001- 22 #  
 23 # THE READ ONLY I/O COMMAND HAS CAUSED A WRITE INTO A  
 24 # SYSTEM STATUS PANEL REGISTER. THE FIRST DATA WORD IS  
 25 # THE ADDRESS AND THE SECOND DATA WORD LOW EIGHT BITS  
 26 # IS THE 8 BIT REGISTER CONTENT. SOME BITS IN SOME  
 27 # REGISTERS ARE NOT PROGRAM ADDRESSABLE  
 28 # FOR ADDRESS 0(07), THE LOW FOUR BITS ARE INDETERMINATE  
 29 #  
 30 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1  
 31 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2  
 32 # MTCE 02-24 FA1100 SSP MEMORY BOARD 1

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 116

TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7723 FLMLTD

CSTATS W77D

-001- 01 #& TBL 7723  
 -001- 02 #& TEST 77  
 -001- 03 #& SEGMENT 5  
 -001- 04 #& PR CSTATS  
 -001- 05 #  
 06 # SYSTEM STATUS PANEL MULTIPLE ADDRESSING PROBLEM. A  
 07 # SERIES OF INVALID ADDRESSES WERE TRIED WHICH WERE 2/6  
 08 # CODES INSTEAD OF THE NORMAL 3/6 CODES. NO REGISTER  
 09 # SHOULD HAVE BEEN SELECTED BUT A WRITE HAS TAKEN PLACE.  
 10 # THE ADDRESS OF THE REGISTER WHICH WAS WRITTEN IS THE  
 11 # FIRST DATA WORD. THE FINAL CONTENTS IS THE LOW EIGHT  
 12 # BITS OF THE SECOND DATA WORD. IT WAS INITIALLY ALL ZEROS.  
 13 # SOME BITS IN SOME REGISTERS ARE NOT PROGRAM ADDRESSABLE.  
 14 # FOR ADDRESS 0(34), THE LOW TWO BITS ARE INDETERMINATE  
 15 #  
 16 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1  
 17 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2  
 18 # MTCE 02-21 FA1100 SSP MEMORY BOARD 4

0023571

-001- 21 #& TBL 7724  
 -001- 22 #& TEST 77  
 -001- 23 #& SEGMENT 5  
 -001- 24 #& PR CSTATS  
 -001- 25 #  
 26 # SYSTEM STATUS PANEL MULTIPLE ADDRESSING PROBLEM. A  
 27 # SERIES OF INVALID ADDRESSES WERE TRIED WHICH WERE 2/6  
 28 # CODES INSTEAD OF THE NORMAL 3/6 CODES. NO REGISTER  
 29 # SHOULD HAVE BEEN SELECTED BUT A WRITE HAS TAKEN PLACE.  
 30 # THE ADDRESS OF THE REGISTER WHICH WAS WRITTEN IS THE  
 31 # FIRST DATA WORD. THE FINAL CONTENTS IS THE LOW EIGHT  
 32 # BITS OF THE SECOND DATA WORD. IT WAS INITIALLY ALL ZEROS.  
 33 #  
 34 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1  
 35 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2  
 36 # MTCE 02-22 FA1100 SSP MEMORY BOARD 3

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SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 117

TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7725 FLMLT2

CSTATS W77D

0023571

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-001- 01 #& TBL 7725
-001- 02 #& TEST 77
-001- 03 #& SEGMENT 5
-001- 04 #& PR CSTATS
-001- 05 #
06 # SYSTEM STATUS PANEL MULTIPLE ADDRESSING PROBLEM. A
07 # SERIES OF INVALID ADDRESSES WERE TRIED WHICH WERE 2/6
08 # CODES INSTEAD OF THE NORMAL 3/6 CODES. NO REGISTER
09 # SHOULD HAVE BEEN SELECTED BUT A WRITE HAS TAKEN PLACE.
10 # THE ADDRESS OF THE REGISTER WHICH WAS WRITTEN IS THE
11 # FIRST DATA WORD. THE FINAL CONTENTS IS THE LOW EIGHT
12 # BITS OF THE SECOND DATA WORD. IT WAS INITIALLY ALL ZEROS.
13 # SOME BITS IN SOME REGISTERS ARE NOT PROGRAM ADDRESSABLE.
14 # FOR ADDRESS 0(16), THE LOW TWO BITS ARE INDETERMINATE
15 #
16 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1
17 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2
18 # MTCE 02-23 FA1100 SSP MEMORY BOARD 2

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0023571

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-001- 21 #& TBL 7726
-001- 22 #& TEST 77
-001- 23 #& SEGMENT 5
-001- 24 #& PR CSTATS
-001- 25 #
26 # SYSTEM STATUS PANEL MULTIPLE ADDRESSING PROBLEM. A
27 # SERIES OF INVALID ADDRESSES WERE TRIED WHICH WERE 2/6
28 # CODES INSTEAD OF THE NORMAL 3/6 CODES. NO REGISTER
29 # SHOULD HAVE BEEN SELECTED BUT A WRITE HAS TAKEN PLACE.
30 # THE ADDRESS OF THE REGISTER WHICH WAS WRITTEN IS THE
31 # FIRST DATA WORD. THE FINAL CONTENTS IS THE LOW EIGHT
32 # BITS OF THE SECOND DATA WORD. IT WAS INITIALLY ALL ZEROS.
33 # SOME BITS IN SOME REGISTERS ARE NOT PROGRAM ADDRESSABLE.
34 # FOR ADDRESS 0(07), THE LOW FOUR BITS ARE INDETERMINATE
35 #
36 # MTCE 02-25 FA1101 SSP CONTROL BOARD 1
37 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2
38 # MTCE 02-24 FA1100 SSP MEMORY BOARD 1

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SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 118

## TROUBLE LOCATION MANUAL

0:39:22 2/06/81 \*\*\*\*

7727 FLPNLTHR

CSTATS W770

-001- 01 #& TBL 7727  
 -001- 02 #& TEST 77  
 -001- 03 #& SEGMENT 6  
 -001- 04 #& PR CSTATS  
 -001- 05 #

0023571

06 # THE SSP PANEL TIMER HAS EITHER FAILED TO BE RESET, TIMED OUT  
 07 # TOO QUICKLY OR, FAILED TO TIME OUT.  
 08

09 # MTCE 02-22 FA1100 SSP MEMORY BOARD 3  
 10 # MTCE 02-28 FC208 SSP DISCRETE BOARD  
 11 # MTCE 02-26 FA1102 SSP CONTROL BOARD 2

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 119



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PATCH HISTORY

0:39:22 2/06/81 \*\*\*\*

LISTING OF INDIVIDUAL PATCHES

CSTATS W770

0023571

01

END

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 121



## PATCH HISTORY

0:39:22 2/06/81 \*\*\*\*

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CSTATS	W77D
ROC 06-09 FA1010 GENE RAL REGISTER S BITS 0 AND 8'	T	BS00008		LIBNUM=6		
'#	P					
ROC 06-10 FA1010 GENE RAL REGISTER S BITS 1 AND 9'	T	BS00109		LIBNUM=6		
'#	P					
ROC 06-11 FA1010 GENE RAL REGISTER S BITS 2 AND 10'	T	BS00210		LIBNUM=6		
'#	P					
ROC 06-12 FA1010 GENE RAL REGISTER S BITS 3 AND 11'	T	BS00311		LIBNUM=6		
'#	P					
ROC 06-13 FA1010 GENE RAL REGISTER S BITS 4 AND 12'	T	BS00412		LIBNUM=6		
'#	P					
ROC 06-14 FA1010 GENE RAL REGISTER S BITS 5 AND 13'	T	BS00513		LIBNUM=6		
'#	P					
ROC 06-16 FA1010 GENE RAL REGISTER S BITS 6 AND 14'	T	BS00614		LIBNUM=6		
'#	P					
ROC 06-17 FA1010 GENE RAL REGISTER S BITS 7 AND 15'	T	BS00715		LIBNUM=6		
'#	P					
ROC 02-11						

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 123

PATCH HISTORY		DEF/REF	ATTRIBUTES AND REFERENCES	CSTATS	W77D
VALUE	T NAME				
FA1024	SPEC				
I	AL REGISTER				
S	BITS 3 AND				
'11'	T BS10311		LIBNUM=6		
'#	P				
ROC	02-13				
FA1024	SPEC				
I	AL REGISTER				
S	BITS 5 AND				
'13'	T BS10513		LIBNUM=6		
'#	P				
ROC	02-17				
FA1024	SPEC				
I	AL REGISTER				
S	BITS 7 AND				
'15'	T BS10715		LIBNUM=6		
'#	P				
ROC	02-19				
FA1030	MISC				
.	DEC. - REG				
I	STERS BITS				
16	AND 18'	T BS1618	LIBNUM=6		
'#	P				
ROC	02-20				
FA1030	MISC				
.	DEC. - REG				
I	STERS BITS				
17	AND 19'	T BS1719	LIBNUM=6		
17	R BTC		S=3 LIBNUM=10		
12	R BUSER		S=3 LIBNUM=10	60-05	
0	U BO				
17	R CC		S=14 LIBNUM=10		
07	0023476	L CDGSSP	1-36 74-14		
0	R CFI		S=0 LIBNUM=10	10-40, 11-27, 12-21, 13-14	
0	R CF1		S=1 LIBNUM=10	11-04, 11-39, 12-33, 13-26	
07	0021060	L CHKNTR	34-06 29-22		
07	0021067	L CHKERRI	34-18 29-04		
07	0020737	L CHKIT	29-24 34-11		
07	0021147	L CHKOFF	70-01 31-43, 33-08, 33-17, 34-08, 65-37, 65-46, 66-06, 66-15, 67-27		
07	0022035	L CHKOFF1	65-35 38-45		
07	0022044	L CHKOFF2	65-44 42-04		
07	0022053	L CHKOFF3	66-04 45-19		
07	0022062	L CHKOFF4	66-13 48-05		
07	0021204	L CHKON	71-13 32-40, 34-20, 65-07, 65-16, 65-25		
07	0022010	L CHKON1	65-05 38-27		
07	0022017	L CHKON2	65-14 41-26		
07	0022026	L CHKON3	65-23 44-45		
07	0021562	L CHKSW	52-13 67-18		
07	0020777	L CHKTST1	31-41 18-26		

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 124

## PATCH HISTORY

0:39:22 2/06/81 \*\*\*\*

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CSTATS	W77D
07 0020441	L	CKTST1DN	18-28	31-46		
'#	P					
ROC 06-31						
FA1025		SYST				
EM CLOCK'	T	CLCK		LIBNUM=6		
07 0021212	L	CLEAN0	71-28	33-28, 66-26, 67-46		
07 0021051	L	CLEAN01	33-26	23-39		
07 0022071	L	CLEAN02	66-24	47-46		
07 0021212	L	CLNON	71-32	71-22		
07 0022116	L	CLNON1	67-44	52-17		
0000043	A	CLRER	91-10	20-23		
0000043	A	CLRER00	91-10			
0000044	A	CLRER01	91-21			
0000045	A	CLRER02	92-01			
0000046	A	CLRER03	92-12			
0000047	A	CLRER04	92-23			
0000050	A	CLRER05	93-01			
0000051	A	CLRER06	93-12			
0000052	A	CLRER07	93-23			
0000053	A	CLRER08	94-01			
0000054	A	CLRER09	94-12			
0000055	A	CLRER10	94-23			
0000056	A	CLRER11	95-01			
0000057	A	CLRER12	95-12			
0000060	A	CLRER13	95-23			
0000033	A	COUNT	6-11	LIBNUM=11		
				35-11, 74-11, 80-01, 80-03, 80-13, 80-24, 81-01, 81-11, 81-22, 82-01, 82-14,		
				82-25, 83-01, 83-17, 84-18, 85-01, 85-14, 85-27, 86-01, 86-13, 86-23, 87-01, 87-11,		
				87-21, 87-31, 88-01, 88-11, 88-21, 88-31, 89-01, 89-11, 89-21, 89-31, 90-01, 90-11, 90-21,		
				91-10, 91-21, 92-01, 92-12, 92-23, 93-01, 93-12, 93-23, 94-01, 94-12, 94-23, 95-01, 95-12,		
				95-23, 96-01, 96-25, 97-01, 97-26, 98-01, 98-15, 98-26, 99-01, 99-12, 99-14, 99-29, 100-01,		
				100-15, 101-01, 101-16, 101-30, 102-01, 102-13, 102-26, 103-01, 103-14, 103-25, 104-01, 104-12, 104-24,		
				105-01, 105-13, 105-27, 106-01, 106-14, 106-27, 106-40, 107-01, 107-19, 108-01, 108-19, 109-01, 109-14,		
				109-27, 110-01, 110-16, 111-01, 111-18, 112-01, 112-14, 112-27, 113-01, 113-28, 114-01, 114-18, 115-01,		
				115-18, 116-01, 116-18, 117-01, 117-21, 118-01, 118-21, 119-01		
0111432	L	CPATCH	1-41			
0112562	L	CPATCH1	1-42	61-35		
0114107	L	CPATCH2	1-43			
0115073	L	CPATCH3	1-44	70-18		
0121236	L	CPATCH7	1-45			
'#	P					
ROC 06-06						
FA1034		CONS				
OLE AND STAT						
US PANEL INT						
ERFACE'	T	CSSPITRF		LIBNUM=6		
07 0020213	L	CSTATUS	1-33	6-14		
07 0021242	L	CSTATUS2	1-34	35-14		
'# NOTE--3	C					
TI		02-02				

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

D:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 125

## PATCH HISTORY

0:39:22 2/06/81 \*\*\*\*

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CSTATS	W770
FA1212		CTI				
BOARD 2'	T	CTI2		LIBNUM=6		
0000003	A	DATAWD	6-11	35-11, 74-11		
0000251	A	DBXF		LIBNUM=10	15-11	
0000251	A	DBXT		LIBNUM=10	14-25	
0000254	A	DBCXT		LIBNUM=10	15-05	
0000115	A	DGSSP		LIBNUM=11	73-07	
17	R	DISP		S=21 LIBNUM=10		
'#		NOTE--3 D				
MA		02-16				
FC392		DMA				
OTHER STORE						
BUS CONTROL'	T	DMAOSTB		LIBNUM=6		
12	R	DMLR		S=4 LIBNUM=10	60-17	
'#		P				
ROC		06-24				
FA1012		DML1				
BITS 00-07'	T	DML10007		LIBNUM=6		
'#		P				
ROC		06-21				
FA1013		DML1				
BITS 16-19'	T	DML11619		LIBNUM=6		
07	0023551	L DOSEG2	78-01	77-34		
07	0020352	D DSPLP	14-35	14-36		
0146066	A	DSXCFX		LIBNUM=10	12-12, 13-05	
0000010	A	DSXCFO	82-14	12-28, 13-21, 82-14		
0000011	A	DSXCF1	82-25	12-40, 13-33, 82-25		
07	0023562	L ENDTST	78-31	79-08		
12	R	ER		LIBNUM=10	71-18	
0000252	A	ERXT		LIBNUM=10	25-05, 28-48, 59-33	
'#		P				
ROC		10-22				
FA1028		ERRO				
R		REG/DISPLA				
Y		BUFFER HIG				
H		BITS'				
07	0020610	D ERINTLP	24-15	24-16		
07	0020466	L ERLW	20-30	32-21		
07	0020557	L ERMD	23-01	32-30		
07	0020447	D ERMFLP	19-37	19-38		
15	R	ERRI		S=5 LIBNUM=10	25-20, 69-12, 71-40	
07	0020551	D ERSNRF	22-35	22-36		
'#		P				
ROC		10-23				
FA1027		ERRO				
R		REG/DISPLA				
Y		BUFFER LOW				
BITS'						
	T	ER0900		LIBNUM=6		
	D	J ESS2	1-10			

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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## PATCH HISTORY

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VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CSTATS	W77D
1	J	ESS2E	1-09			
CSYSUB	V	EXCMCH	5-12	70-40		
0	J	FACTORY	1-26			
CDGNOF	V	FAILOFF	3-42			
0	U	FFFFF				
0	U	FF00				
1	J	FIELD	1-09			
0000017	A	FLBDBAER	104-12	57-39,104-12		
0000017	A	FLBDDT	113-01			
0000017	A	FLBDDT00	113-01			
0000020	A	FLBDDT01	113-28			
0000021	A	FLBDDT02	114-01			
0000022	A	FLBDDT03	114-18			
0000007	A	FLBDDT10	109-27			
0000010	A	FLBDDT11	110-01			
0000011	A	FLBDDT12	110-16			
0000012	A	FLBDDT13	111-01			
0000012	A	FLBDISP	83-01	15-28, 15-42, 16-07, 83-01		
0000066	A	FLBHCSMF	98-15	29-35, 98-15		
0000065	A	FLBHCSW	98-01	29-17, 98-01		
0000014	A	FLCCLDMR	103-14	54-38, 103-14		
0000016	A	FLCCSTP	104-01	56-27, 104-01		
0000015	A	FLCCSTRT	103-25	55-41, 103-25		
0000012	A	FLCCSW	102-26	53-23, 102-26		
0000007	A	FLCFD	82-01			
0000005	A	FLCFD	81-11	10-47, 11-34, 81-11		
0000006	A	FLCF1	81-22	11-11, 11-46, 81-22		
0000026	A	FLDMLD	106-27	60-24, 106-27		
0000025	A	FLGBUSD	106-14	60-12, 106-14		
0000004	A	FLHLT	81-01	9-13, 81-01		
0000042	A	FLINIT	90-21	18-39, 90-21		
0000064	A	FLINT	97-26	25-27, 97-26		
0000023	A	FLIOER	105-27	59-49, 105-27		
0000024	A	FLIOPAR	106-01			
0000002	A	FLISC1	80-13	9-27, 80-13		
0000003	A	FLISC2	80-24	9-41, 80-24		
0000001	A	FLMAN	80-03			
0000067	A	FLMFTM	98-26	26-42, 98-26		
0000027	A	FLMLT0	117-01			
0000030	A	FLMLT1	117-21			
0000031	A	FLMLT2	118-01			
0000032	A	FLMLT3	118-21			
0000061	A	FLMRF	96-01	22-05, 96-01		
0000020	A	FLNOBAER	104-24	58-19, 104-24		
0000013	A	FLNODISP	83-17	15-29, 15-43, 16-08, 83-17		
0000070	A	FLOFTM	99-01	27-40, 99-01		
0000033	A	FLPNLTMR	119-01			
0000011	A	FLPTRER	102-13	51-27, 102-13		
0000023	A	FLRDO	115-01			

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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## PATCH HISTORY

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CSTATS	W77D
0000024	A	FLRD1	115-18			
0000025	A	FLRD2	116-01			
0000026	A	FLRD3	116-18			
0000063	A	FLSMRF	97-01	24-05, 97-01		
0000021	A	FLSNTY	105-01	62-37, 105-01		
0000022	A	FLSNTYER	105-13	63-05, 105-13		
0000013	A	FLSWER	103-01	53-05, 103-01		
0000013	A	FLOSRS0	111-18			
0000014	A	FLOSRS1	112-01			
0000015	A	FLOSRS2	112-14			
0000016	A	FLOSRS3	112-27			
0000003	A	FL1SR50	108-01			
0000004	A	FL1SR51	108-19			
0000005	A	FL1SR52	109-01			
0000006	A	FL1SR53	109-14			
'#	P					
ROC	06-04					
FA1031	'FRO					
M" FIELD CHE						
CKER'	T	FRMCHK		LIBNUM=6		
07	0021322	L	FSTMOUT	40-39 64-25		
07	0021366	L	FSTMOUT1	43-28 64-34		
07	0023551	L	FTRTN2	78-04		
'#	P					
ROC	06-20					
FA1026	GATI					
NG BUS PARIT						
Y CHECK AND						
DML MATCH'	T	GBP		LIBNUM=6		
07	0021412	L	GO_ON1	44-41		
07	0021466	L	GO_ON2	47-41		
07	0023544	L	GOODACC	77-29 77-13		
CDGNOF	V	GOODBA	5-07	57-23		
0000377	A	H_STOP		LIBNUM=10		
17	R	HLT		S=5 LIBNUM=10	8-16, 9-04	
0000306	A	IBXF		LIBNUM=10	31-33	
0026712	A	IBSHQX		LIBNUM=10	31-30, 37-32, 40-13	
'ILLEGAL CON						
DITIONAL IN						
THE IF MACRO'	T	IFERROR1				
'DATA > 0 OR						
DATA < 0 IS						
MEANINGLESS						
USE DATA -						
= 0'	T	IFERROR2				
'TWO CONSTAN						
TS ARE BEING						
COMPARED IN						
IF MACRO'	T	IFERROR3				

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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## PATCH HISTORY

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VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CSTATS	W77D
'AN ITEM WAS COMPARED TO SOMETHING OTHER THAN A CONSTANT'	T	IFERROR4				
'DESTINATION OF AN = STATEMENT IS A CONSTANT'	T	IFERROR5				
'ATTEMPTING TO SET ITEM = TO SOMETHING OTHER THAN A CONSTANT'	T	IFERROR6				
'ITEM MAY ONLY USE THE = AND = CONDITIONALS'	T	IFERROR7				
14 R IM				LIBNUM=10 69-09, 69-13, 71-49		
0000062 A INITBD			96-25	22-25, 96-25		
07 0021076 L INITBHC			34-35	28-34		
07 0021105 L INITMF			69-04	32-18, 32-27, 34-37, 64-13, 64-22, 64-31, 64-40, 67-15		
07 0021754 L INITMRF1			64-11	37-43		
07 0021763 L INITMRF2			64-20	40-37		
07 0021772 L IN'TMRF3			64-29	43-26		
07 0022001 L INITMRF4			64-38	46-41		
CSYSUB V INITOST			5-13	70-25		
07 0020423 L INITRDY			17-36	31-20		
CINIT V INITTSTC			5-04	22-19, 29-29, 31-09, 39-06, 45-28, 53-17, 69-18		
CTSD V INITTST1			5-01	31-10, 69-17, 70-41		
CTSD V INITTST2			5-02	31-14, 69-22		
CSYSUB V INSYNC			5-14	69-46		
D J INTERDATA				1-26		
07 0022100 L INTIAL			67-13	52-11		
CDGNM X INTRPN03			3-39	31-21, 31-39, 31-47, 32-22, 32-31, 32-44, 33-12, 33-21, 33-32, 34-12, 34-24, 34-41, 64-17, 64-26, 64-35, 64-44, 65-11, 65-20, 65-29, 65-41, 66-01, 66-10, 66-19, 66-30, 67-19, 67-35, 68-01, 68-15, 77-20, 77-27, 77-35, 79-09		
07 0023513 L IOACC			77-01	76-14		
'# P						
ROC 10-04						
FA1039 I/O						
CHAN D CONTR						
OL'						
T IO000				LIBNUM=6		
12 R IOER				S=24 LIBNUM=10		
CDGNOF V IOERROR			5-11	59-23		
'# P						
ROC 10-05						
FC201 I/O						
CHAN D LOW S						

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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PATCH HISTORY												0:39:22	2/06/81	****	
VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES										CSTATS	W77D
UB-CHAN'	T	IOSCADO		LIBNUM=6											
CDGNOF	V	IOSELCT	73-01	77-05											
'#	P														
ROC		10-03													
FA1038		I/O													
CHAN		O CONTR													
OL'	T	IOS00		LIBNUM=6											
0000213	A	ISXF		LIBNUM=10 25-11											
0000066	A	IS_RXT		LIBNUM=10 24-35, 69-16, 71-47											
17	R	ISC1		S=6 LIBNUM=10 8-16, 9-18, 69-30, 71-03											
17	R	ISC2		S=7 LIBNUM=10 8-16, 9-32, 69-30, 71-03											
	J	LAB	1-26												
CDGNOF	V	LDERBT	5-08	21-13, 23-18											
0000231	A	LDMCHB		LIBNUM=10 71-03, 71-05											
07	0021166	L LDMCHBUF	70-45												
0000035	A	LDMIRL		LIBNUM=10 71-04, 71-06, 71-07											
CDGNOF	V	LDTI	5-09	38-22											
07	0020600	L LFOFF	23-41	33-31											
0000000	A	LPINDX	9-01	9-04, 9-15, 9-18, 9-29, 9-32, 10-37, 10-40, 11-01, 11-04, 11-24, 11-27, 11-36, 11-39, 12-18, 12-21, 12-30, 12-33, 13-11, 13-14, 13-23, 13-26, 15-17, 15-20, 15-31, 15-34, 15-45, 15-48, 18-29, 18-32, 20-13, 20-16, 21-44, 21-47, 22-15, 22-18, 23-42, 23-45, 25-17, 25-20, 26-32, 26-35, 27-30, 27-33, 29-07, 29-10, 29-25, 29-28, 38-30, 38-33, 39-02, 39-05, 41-38, 41-41, 42-08, 42-11, 45-04, 45-07, 45-24, 45-27, 48-08, 48-11, 51-01, 51-04, 51-17, 51-20, 52-42, 52-45, 53-13, 53-16, 54-28, 54-31, 55-31, 55-34, 56-17, 56-20, 57-29, 57-32, 58-09, 58-12, 59-39, 59-42, 60-02, 60-05, 60-14, 60-17, 62-27, 62-30, 62-43, 62-46, 17-47, 26-23, 26-26, 27-21, 27-24, 41-18, 41-21, 44-18, 44-21, 47-18, 47-21											
0000050	A	LPNUM	17-44												
07	0020610	D LPSTART	8-21	9-46, 14-36, 16-13, 19-38, 22-30, 22-36, 24-10, 24-16, 25-32											
'#	M														
ASCM		08-24													
FA1068		MAIN													
STORE		CONTR													
OLLER		- BUS													
CONTROL'	T	MASCBSC		LIBNUM=6											
'#	M														
ASCM		08-17													
FA1062		MAIN													
STORE		CONTR													
OLLER		- CHEC													
K CIRCUIT	A	T MASCC		LIBNUM=6											
'#	M														
ASCM		03-04													
JL16		MAIN													
STORE		PLANE													
- MOD		0 BIT													
S 0 & 8'	T	MASPLA000		LIBNUM=6											
'#	M														
ASCM		03-05													
JL16		MAIN													
STORE		PLANE													
SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS												PR-1C932-50			
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## PATCH HISTORY

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VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CSTATS	W77D
- MOD 0 BIT						
S 1 & 9'	T	MASPLA001		LIBNUM=6		
'#	M					
ASCM 03-06						
JL16 MAIN						
STORE PLANE						
- MOD 0 BIT						
S 2 & 10'	T	MASPLA002		LIBNUM=6		
'#	M					
ASCM 03-09						
JL16 MAIN						
STORE PLANE						
- MOD 0 BIT						
S 5 & 13'	T	MASPLA005		LIBNUM=6		
'#	M					
ASCM 03-10						
JL16 MAIN						
STORE PLANE						
- MOD 0 BIT						
S 6 & 14'	T	MASPLA006		LIBNUM=6		
3 R MCHB				LIBNUM=10	70-46, 71-21	
0000231 A MCHBXF				LIBNUM=10	8-34, 8-35, 8-36, 14-25, 14-46, 14-47, 21-05, 23-13, 25-05, 28-48, 38-08,	
					69-35, 71-04, 71-06	
0000231 A MCHBXT				LIBNUM=10	8-42, 15-11, 25-11, 50-37, 62-04	
'#	P					
ROC 02-27						
FA1037 MAIN						
TENANCE CHAN						
NEL CONTROL' T MCHC				LIBNUM=6		
0000341 A MCHCXT				LIBNUM=10	31-33	
'#	P					
ROC 02-26						
FC202 MAIN						
TENANCE CHAN						
NEL DISCRETE						
COMPONENTS' T MCHD				LIBNUM=6		
0000002 A MCHRSP			107-19		76-28, 107-19	
07 0023511 L MCHRTN					76-23 77-26	
07 0023537 L MCHRTNBD					77-22 77-15	
07 0021170 L MCHTBL					71-01 70-26	
0 R MCHTR				LIBNUM=10	69-31, 69-36	
'#	P					
ROC 02-28						
FA1036 MAIN						
TENANCE CHAN						
NEL BITS 11-						
19'	T	MCH1119		LIBNUM=6		
'#	P					
ROC 02-35						

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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PATCH HISTORY

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CSTATS	W77D
FA1016	MICR					
0	CONTROL 1'	T MC1		LIBNUM=6		
'#	P					
ROC	02-34					
FA1017	MICR					
0	CONTROL 2'	T MC2		LIBNUM=6		
'#	P					
ROC	02-33					
FA1018	MICR					
0	CONTROL 3'	T MC3		LIBNUM=6		
'#	P					
ROC	06-32					
FA1019	MICR					
0	CONTROL 4'	T MC4		LIBNUM=6		
'#	P					
ROC	06-35					
FA1021	MICR					
0	CONTROL 6'	T MC6		LIBNUM=6		
'#	P					
ROC	02-32					
FA1022	MICR					
0	CONTROL 7'	T MC7		LIBNUM=6		
'#	P					
ROC	02-31					
FA1023	MICR					
0	CONTROL 8'	T MC8		LIBNUM=6		
	12 R MFSTM			S=14 LIBNUM=10		26-35

```

+-( 18
  [S*);
- /
?
: #0'=" ab
cdefghi n<<+
+ jklmnopqr
x)z=-stuvw
xyz+Lr[>=012
3456789+1,]#
-ABCDEF GHI
  JKL MNO
PQR \ S
TUVWXYZ
0123456789
  
```

T MICODETR LIBNUM=10

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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## PATCH HISTORY

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VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CSTATS	W770
'#	P					
ROC 02-25						
FA1032		MISC				
ELLANEOS		CI				
RCUIT BOARD'	T	MISC		LIBNUM=6		
0000015	A	MRFBHC	84-18			
0000020	A	MRFBTC	85-27			
07 0020745	L	MRFINIT	31-07	17-34		
0000017	A	MRFMINT	85-14			
0000022	A	MRFMS	86-13			
0000021	A	MRFMSCL	86-01			
0000022	A	MRFMS00	86-13			
0000023	A	MRFMS01	86-23			
0000024	A	MRFMS02	87-01			
0000025	A	MRFMS03	87-11			
0000026	A	MRFMS04	87-21			
0000027	A	MRFMS05	87-31			
0000030	A	MRFMS06	88-01			
0000031	A	MRFMS07	88-11			
0000032	A	MRFMS08	88-21			
0000033	A	MRFMS09	88-31			
0000034	A	MRFMS10	89-01			
0000035	A	MRFMS11	89-11			
0000036	A	MRFMS12	89-21			
0000037	A	MRFMS13	89-31			
0000040	A	MRFMS14	90-01			
0000041	A	MRFMS15	90-11			
0000014	A	MRFSS	84-01			
0000016	A	MRFSTP	85-01			
'2e790446'	T	MRNO				
'#	P					
ROC 02-21						
FA1029		MAIN				
STORE CONTR						
OL 0'	T	MSTCONTO		LIBNUM=6		
'#	P					
ROC 02-22						
FA1029		MAIN				
STORE CONTR						
OL 1'	T	MSTCONT1		LIBNUM=6		
0000321	A	MSTOP		LIBNUM=10	71-02	
'#	P					
ROC 02-37						
ED4C156		MIC				
RO STORE 0-1						
023'	T	MS102		LIBNUM=6		
CDGNM	V	NABT	3-32	41-03, 41-35, 44-03, 44-31, 47-03, 47-31		
CDGNM	V	NADD OFF	3-23	21-12, 23-17, 38-21, 57-22, 57-43, 59-22, 61-18, 78-10		
CDGNM	V	NADMIC	3-24			

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

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## PATCH HISTORY

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VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CSTATS	W77D
CDGNN	V	NBEGIN	3-29	8-20, 14-35, 19-37, 22-35, 24-15		
CDGNN	V	NBGN	3-40	6-17, 35-17, 74-17		
CDGNN	V	NCLRMS	3-34			
CDGNN	V	NCOMPARE	3-27	9-04, 9-18, 9-32, 10-40, 11-04, 11-27, 11-39, 12-21, 12-33, 13-14, 13-26, 15-20, 15-34, 15-48, 18-32, 20-16, 21-47, 22-18, 23-45, 25-20, 26-35, 27-33, 29-10, 29-28, 38-33, 39-05, 41-41, 42-11, 45-07, 45-27, 48-11, 51-04, 51-20, 52-45, 53-16, 54-31, 55-34, 56-20, 57-32, 58-12, 59-42, 60-05, 60-17, 62-30, 62-46		
CDGNN	V	NDISABA	3-08			
CDGNN	V	NDISAB	3-09			
CDGNN	V	NEXECUTE	3-26			
CDGNN	V	NFAILTST	3-17	9-12, 9-26, 9-40, 10-46, 11-10, 11-33, 11-45, 12-27, 12-39, 13-20, 13-32, 15-27, 15-41, 16-06, 18-38, 22-04, 22-24, 24-04, 25-26, 26-41, 27-39, 29-16, 29-34, 38-39, 39-11, 41-47, 42-17, 45-13, 45-33, 48-17, 51-10, 51-26, 53-04, 53-22, 54-37, 55-40, 56-26, 57-38, 58-18, 59-48, 60-11, 60-23, 62-36, 63-04, 76-20, 76-27		
CDGNN	V	NFLBITS	3-38	20-22		
CDGNN	V	NFRZ	3-28	54-11, 55-03		
CDGNN	V	NLDMIR	3-25			
CDGNN	V	NLP_END	3-30	9-45, 16-12, 22-29, 24-09, 25-31		
CDGNN	V	NMAŠK	3-19	20-07, 50-45		
CDGNN	V	NMICRO	3-03	8-33, 8-41, 10-23, 10-30, 11-17, 12-05, 12-11, 12-46, 13-04, 14-24, 14-30, 14-45, 15-04, 15-10, 18-17, 21-04, 21-33, 23-12, 24-24, 24-34, 25-04, 25-10, 26-12, 26-18, 27-12, 27-18, 28-24, 28-47, 37-31, 38-07, 38-13, 40-12, 40-31, 41-08, 41-15, 43-20, 43-41, 44-08, 44-15, 44-26, 44-37, 46-21, 46-35, 47-08, 47-15, 47-26, 47-37, 49-32, 50-04, 50-16, 50-30, 50-36, 51-32, 52-05, 52-31, 53-32, 54-05, 54-18, 55-10, 55-24, 55-47, 56-10, 59-32		
CDGNN	V	NNO3CD	3-35	17-33, 17-40, 18-25, 20-27, 21-38, 22-11, 22-47, 23-30, 23-38, 28-33, 29-03, 29-21, 37-42, 38-26, 38-44, 40-36, 41-25, 42-03, 43-25, 44-44, 45-18, 46-40, 47-45, 48-04, 52-10, 52-16, 52-23, 53-09, 76-13, 78-28		
07 0023507	L	NOACC	76-16	77-19		
0000001	A	NOIOAC	107-01	76-21, 107-01		
CDGNN	V	NPASSTST	3-20	30-03, 63-09		
CDGNN	V	NPROS	3-15	17-27, 19-41, 22-39, 24-19, 28-18, 37-20, 40-07, 43-03, 46-04, 49-19, 51-37, 53-37, 54-44, 61-42, 78-06, 78-19, 78-36		
CDGNN	V	NRDMICRO	3-33	54-26, 55-29		
CDGNN	V	NRESCLK	3-13			
CDGNN	V	NRETRN	3-04	8-46, 15-15, 20-03, 25-15, 26-30, 27-28, 50-41, 51-15, 52-40, 57-27, 58-07, 59-37, 62-41,		
CDGNN	V	NRTNBLM	3-46	17-23, 37-24		
CDGNN	V	NSEND	3-21	8-27, 14-40, 18-11, 21-26, 23-05, 26-06, 27-06, 37-49, 40-21, 40-43, 43-12, 43-32, 43-47, 46-11, 46-27, 46-47, 49-24, 49-42, 50-10, 51-45, 53-42		
CDGNN	V	NSKIP	3-31	61-27, 62-08		
CDGNN	V	NSTOP	3-07	18-06, 21-17, 23-26, 25-46, 48-22, 56-04, 58-03, 59-27, 61-47		
CDGNN	V	NSTPCLK	3-11			
CDGNN	V	NSTRT	3-06	55-18		
CDGNN	V	NSTRTCLK	3-10			
CDGNN	V	NTESTSEG	3-16	8-08, 10-08, 14-08, 17-08, 19-08, 28-08, 37-08, 49-08, 57-08, 59-08, 61-08, 76-08		
CDGNN	V	NTGCLK	3-12			
CDGNN	V	NTMTEST	3-36	17-46, 26-25, 27-23, 41-20, 44-20, 47-20		
CDGNN	V	NTTY	3-18			
0000000	A	NUM	5-15	8-21, 9-47, 14-36, 16-14, 19-38, 22-31, 22-36, 24-11, 24-16, 25-33, 34-43, 73-07		

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 134

## PATCH HISTORY

0:39:22 2/06/81 \*\*\*\*

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CSTATS	W77D
CDGNM	V	NWDTST	3-47			
CDGNM	V	NZERO_ER	3-14	19-48, 21-21, 22-43, 24-29, 26-46, 28-29, 49-37, 57-18		
CDGNM	V	NZERPT	3-37	40-03, 41-31, 50-24		
CDGNM	V	N2RETRN	3-05	10-35, 11-22, 12-16, 13-09, 56-15, 62-03		
CDGNM	V	N2SEND	3-22	14-17, 20-35, 24-40, 28-40		
	V	ODGOFSUB	74-20	74-19		
	V	ODGSSP	74-19	74-18		
07 0021471	L	OFFCHK	48-01	66-29		
07 0022107	L	OFFLTST	67-25	53-10		
07 0021301	L	OFFL1	39-01	65-40		
07 0021350	L	OFFL2	42-06	65-49		
07 0021424	L	OFFL3	45-21	66-09		
07 0021474	L	OFFL4	48-07	66-18		
	V	OFFSSP	73-02	78-11		
07 0020541	L	OFFT1	22-14	33-11		
07 0020575	L	OFF2	23-33	33-20		
	R	OFSTM		S=20 LIBNUM=10 27-33		
07 0021602	L	OFSTY1	53-12	67-34		
07 0021565	L	ONCLND1	52-19	67-49		
07 0021272	L	ONFL1	38-29	65-10		
07 0021337	L	ONFL2	41-28	65-19		
07 0021415	L	ONFL3	45-01	65-28		
'#		####				
##		ON-LINE P				
ACKS		#####		LIBNUM=6		
07 0020532	L	ONT1	21-41	32-43		

```

t.<(AON
  X$*)
-s/
,%_>?
:W@'L" ab
cdefghi n$((+
+ jklmnopqr"
m)z=-stuvw
xyz+Lr[>=012
3456789+_]#
-IBCLEFGHI
)JKLMNO
PQR \ S
LLLWLYZ
0123456789

```

T OPTR  
0000705 A ORG\_000050 70-14

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 135

## PATCH HISTORY

0:39:22 2/06/81 \*\*\*\*

VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CSTATS	W77D
0000763	A	ORG_000057	78-14			
0000707	A	ORG_000064	70-24			
0000733	A	ORG_000107	71-37			
0000466	A	ORG_000330	52-35			
0000560	A	ORG_000472	61-22			
0000575	A	ORG_000475	62-17			
0000643	A	ORG_000647	67-29			
0000565	A	ORG_000755	61-39			
	V	OSTATUS	6-19	6-18		
	V	OSTATUS2	35-19	35-18		
CTSD	V	PAGSCR	5-03	69-10, 71-48		
0000000	A	PARITY	8-24	14-14, 14-37, 18-08, 20-32, 21-23, 23-02, 24-37, 26-03, 27-03, 28-37, 37-46, 40-18, 40-40, 43-09, 43-29, 43-44, 46-08, 46-24, 46-44, 49-21, 49-39, 50-07, 51-42, 53-39		
CDGNOF	V	PASSOFF	3-41			
0113537	L	PAT_CODE	61-39	61-28		
07 0021740	L	PAT_RTN	62-22	62-09		
0000025	A	PH		LIBNUM=10 15-48		
0000024	A	PL		LIBNUM=10 15-34		
'CSTATS'	T	PNAME				
0000010	A	PTRCC	102-01	51-11, 102-01		
12	R	PTRER	S=22	LIBNUM=10 51-20		
'#	P					
ROC	02-24					
FA1033	PROG					
RAM	TIMER/TI					
MING	COUNTER	'T PTT		LIBNUM=6		
07 0021255	L	PTIS	37-45	64-16		
14	P	RAO		LIBNUM=3 31-20, 31-38, 31-46, 32-21, 32-30, 32-43, 33-11, 33-20, 33-31, 34-11, 34-23, 34-40, 64-16, 64-25, 64-34, 64-43, 65-10, 65-19, 65-28, 65-40, 65-49, 66-09, 66-18, 66-29, 67-18, 67-34, 67-49, 68-14, 77-19, 77-26, 77-34, 79-08		
16	P	RA1		LIBNUM=3 31-10, 31-12, 31-14, 31-16, 69-17, 69-20, 69-22, 69-24, 70-26, 70-41, 70-43		
CBLM	V	RHV_SSP	73-03	77-04		
CDGNOF	V	RNSANITY	5-10	61-19		
CBLM	V	RST_SSP	73-04	79-05		
07 0023564	L	RSTSSP	79-01	78-29		
'STATS'	T	RTNAME				
0	R	RO		LIBNUM=3 31-09, 31-20, 31-38, 31-46, 32-21, 32-30, 32-43, 33-11, 33-20, 33-31, 34-11, 34-23, 34-40, 64-16, 64-25, 64-34, 64-43, 65-10, 65-19, 65-28, 65-40, 65-49, 66-09, 66-18, 66-29, 67-18, 67-34, 67-49, 68-09, 68-14, 69-09, 69-10, 69-12, 69-13, 69-18, 69-30, 69-31, 69-35, 69-36, 69-40, 70-09, 70-11, 70-26, 70-46, 71-20, 71-21, 71-40, 71-48, 71-49, 77-12, 77-14, 77-19, 77-26, 77-34, 79-08		
0000123	A	ROXF		LIBNUM=10 40-32, 41-16, 43-21, 44-16, 46-36, 47-16, 50-05, 62-04, 69-16, 71-47		
0000123	A	ROXT		LIBNUM=10 21-05, 23-13, 40-22, 43-13, 46-28, 49-43		
1	R	R1		LIBNUM=3 31-10, 31-14, 69-17, 69-22, 70-34, 70-41		
0000125	A	R1XF		LIBNUM=10 43-42, 44-38, 46-22, 47-38, 49-33, 50-31, 51-33, 52-06, 52-32, 53-33, 54-06, 54-19, 55-11, 55-25, 55-48, 56-11		
0000125	A	R1XT		LIBNUM=10 43-33, 46-12, 49-25, 51-46, 53-43		
12	R	R10		LIBNUM=3 77-06		
2	R	R2		LIBNUM=3 71-19, 71-20		

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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## PATCH HISTORY

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VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CSTATS	W77D
0000126	A	R2XF		LIBNUM=10 21-34, 28-25		
0000126	A	R2XT		LIBNUM=10 21-27		
	11	R9		LIBNUM=3 77-05		
CINIT	V	SANITYC	5-05	62-31		
0023712	A	SBRX		LIBNUM=10 14-31, 24-25, 38-14		
0036071	A	SCFX		LIBNUM=10 10-31		
0146071	A	SDSX		LIBNUM=10 12-06		
07 0021447	L	SECTIMOUT	46-43	64-43		
0001160	A	SERNO_047950	120-23			
0001154	A	SERNO_050055	120-12			
0001150	A	SERNO_057045	120-02			
07 0021371	L	SETCC1	43-36			
07 0021435	L	SETCC2	46-17			
CSYSUB	V	SIO	73-05	77-09, 77-11		
CDGNM	V	SLDMCHBF	3-43	69-34		
CDGNM	V	SLDMIRLF	3-44	69-39		
CSYSUB	V	SMCH	68-10	68-11		
CDGNM	V	SMCHF	3-45	31-35		
07 0022125	L	SNDSW	68-07	52-24		
0000216	A	SSXF		LIBNUM=10 8-42		
0000216	A	SS_RXT		LIBNUM=10 8-34, 8-36, 14-46, 41-16, 44-16, 44-38, 47-16, 47-38, 50-31, 51-33, 52-32, 53-33, 54-19, 55-25, 56-11, 69-35, 71-04		
0000213	A	SS_SXT		LIBNUM=10 8-35, 14-47, 21-34, 28-25, 38-08, 40-32, 43-21, 43-42, 46-22, 46-36, 49-33, 50-05, 52-06, 54-06, 55-11, 55-48		
0000340	A	SSCONST	8-16			
07 0020217	D	SSLP	8-20	8-21		
'#	M					
TCE 02-25						
FA1101	SSP					
CONTROL BOAR						
D 1'	T	SSPCONT1		LIBNUM=6		
'#	M					
TCE 02-26						
FA1102	SSP					
CONTROL BOAR						
D 2'	T	SSPCONT2		LIBNUM=6		
'#	M					
TCE 02-28						
FC208	SSP					
DISCRETE BOA						
RD'	T	SSPDIS		LIBNUM=6		
'#	M					
TCE 02-24						
FA1100	SSP					
MEMORY BOARD						
1'	T	SSPMEM1		LIBNUM=6		
'#	M					
TCE 02-23						
FA1100	SSP					

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

0:39:22 2/06/81 TRADE SECRET - SEE TRADE SECRET RESTRICTIVE NOTICE ON COVER SHEET CSTATS ISSUE 04 PAGE 137

PATCH HISTORY				0:39:22	2/06/81	****	
VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CSTATS	W77D	
MEMORY BOARD							
2'	T	SSPMEM2		LIBNUM=6			
'#	M						
TCE 02-22							
FA1100 SSP							
MEMORY BOARD							
3'	T	SSPMEM3		LIBNUM=6			
'#	M						
TCE 02-21							
FA1100 SSP							
MEMORY BOARD							
4'	T	SSPMEM4		LIBNUM=6			
07	0021105	L	STATSUB	1-35			
	0000113	A	STATUS	LIBNUM=11	5-15		
	0000114	A	STATUS2	LIBNUM=11	34-43		
	17	R	STP	S=16	LIBNUM=10	56-20	
	0000000	A	SUCCESS	9-01	9-04, 9-15, 9-18, 9-29, 9-32, 10-37, 10-40, 11-01, 11-04, 11-24, 11-27, 11-36, 11-39, 12-18, 12-21, 12-30, 12-33, 13-11, 13-14, 13-23, 13-26, 15-17, 15-20, 15-31, 15-34, 15-45, 15-48, 18-29, 18-32, 20-13, 20-16, 21-44, 21-47, 22-15, 22-18, 23-42, 23-45, 25-17, 25-20, 26-32, 26-35, 27-30, 27-33, 29-07, 29-10, 29-25, 29-28, 38-30, 38-33, 39-02, 39-05, 41-38, 41-41, 42-08, 42-11, 45-04, 45-07, 45-24, 45-27, 48-08, 48-11, 51-01, 51-04, 51-17, 51-20, 52-42, 52-45, 53-13, 53-16, 54-28, 54-31, 55-31, 55-34, 56-17, 56-20, 57-29, 57-32, 58-09, 58-12, 59-39, 59-42, 60-02, 60-05, 60-14, 60-17, 62-27, 62-30, 62-43, 62-46		
	0000000	A	SV_REG	17-43	31-38		
07	0020426	L	SWDONE	S=23	LIBNUM=10	52-45, 71-19	
	12	R	SWER	LIBNUM=10	31-32, 68-09		
	0000017	A	SWITCH	31-24	17-41		
07	0020764	L	SWMSG	52-26	68-14		
07	0021570	L	SWSENT	29-06	34-23		
07	0020730	L	SWTCHER	5-15	34-43, 73-07, 80-01, 99-12, 106-40		
	0000115	A	TESTNO	2-01			
	0116774	L	TFAPCH2	LIBNUM=10	50-37		
	0000223	A	TIXF	5-01	5-15, 80-01		
	0000113	A	TLMFRST				
'#	P						
ROC 02-02							
FA1031 "TO"							
FIELD CHECK							
ER'	T	TOCHK		LIBNUM=6			
'#	P						
ROC 06-34							
FA1045 "TO"							
FIELD DECOD							
ER'	T	TODEC		LIBNUM=6			
	0600000	L	TPATCH	2-03			
	0001150	A	TR_013622	120-02			
	0000707	A	TR_13622	52-35	67-29, 70-14, 70-24		
	0000733	A	TR_2e790446	71-37			
	0001160	A	TR_790361	61-22	61-39, 62-17, 120-23		
SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS							
PR-1C932-50							
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## PATCH HISTORY

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VALUE	T	NAME	DEF/REF	ATTRIBUTES AND REFERENCES	CSTATS	W77D
0001154	A	TR_790400	78-14	120-12		
07 0023555	L	TRORG	52-35	61-22, 62-17, 67-29, 70-14, 71-37, 78-14		
07 0020720	L	TRYBHC	28-36	34-40		
07 0021006	L	TSTMRF1	32-16	20-28		
07 0021015	L	TSTMRF2	32-25	22-48		
07 0021033	L	TSTOFF1	33-06	22-12		
07 0021042	L	TSTOFF2	33-15	23-31		
07 0021024	L	TSTON1	32-38	21-39		
'6'	T	TXTSEG				
07 0021153	L	WAITLP	70-10	70-11		
	V	XDGOFSUB	74-20	74-19		
	V	XDGSSP	74-19	74-18		
	V	XSTATUS	6-19	6-18		
	V	XSTATUS2	35-19	35-18		
0036072	A	ZCFX		LIBNUM=10 10-24, 11-18		
0015472	A	ZDRX		LIBNUM=10 26-19, 27-13		
0146072	A	ZDSX		LIBNUM=10 12-47		
0025750	A	ZERX		LIBNUM=10 69-28, 71-35		
0134350	A	ZPTX		LIBNUM=10 44-27, 47-27		
	0	U QFOD				
	1	J 3ACC	1-09			
	0	U 3FFF				
	0	U 37FF				
	0	U 7FFF				

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-1C932-50

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PATCH HISTORY

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COUNT FLAG

PAGE-LINE OF FLAG

CSTATS W77D

5 E

31-12, 31-16, 69-09, 69-20, 69-24

5 FLAG(S) FOUND IN THIS ASSEMBLY

SYS STATUS BITS, SWITCHING, AND SYS STATUS PANEL TESTS

PR-10932-50

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