

FEATURE	FUNCTION	DATE FOUND	DATE FIXED	DATE CONFIRMED
EVAL	NOT OPERATING	4/10/80	4/11/80	4/18/80
R -> P	NOT OPERATING FOR 0.1	4/10/80	4/11/80	4/16/80
CMS	NOT OPERATING RELIABLY	4/10/80	4/11/80	4/18/80
SBR	NOT COMPLETELY OPERATIVE	4/10/80	4/11/80	4/22/80
DEL	NOT OPERATIVE	4/10/80	4/11/80	4/21/80
IFC	NOT OPERATIVE CAUSES LOCK UP	4/10/80	4/11/80	4/22/80
IFC=	NOT OPERATIVE CAUSES LOCK UP	4/10/80	4/11/80	4/22/80
IF NOT =	NOT OPERATIVE	4/10/80	4/11/80	4/22/80
DFN INV OP 14	CAUSES LOCK UP	4/10/80	4/11/80	4/17/80
DFN INV OP 27	CAUSES LOCK UP	4/10/80	4/11/80	4/17/80
DFN INV OP 31	CAUSES LOCK UP	4/10/80	4/11/80	4/17/80
DFN INV OP 34	STUCK IN LOOP	4/10/80	4/11/80	4/17/80
OP 0	CAUSES LOCK UP	4/10/80	4/11/80	4/18/80
OP 2	CAUSES LOCK UP	4/10/80	4/11/80	4/18/80
OP 11	PROBLEM CLEARING DISPLAY	4/10/80	4/11/80	4/18/80
OP 19	DOES NOT WORK	4/10/80	4/11/80	4/18/80
INV OP 19	DOES NOT WORK	4/10/80	4/11/80	4/18/80
INV OP 28	CAUSES LOCK UP	4/10/80	4/11/80	4/18/80
OP 33	CAUSES LOCK UP	4/10/80	4/11/80	4/18/80
OP 34, 35, 36 INV OP 34, 35, 36	CAUSE LOCK UP - THESE OPS DO NOT EXIST	4/10/80	4/11/80	4/18/80
OP 37	CAUSES LOCK UP	4/10/80	4/11/80	4/18/80
INV OP 37	CAUSES LOCK UP	4/10/80	4/11/80	4/18/80
OP 38	CAUSES LOCK UP	4/10/80	4/11/80	4/18/80
INV OP 38	CAUSES LOCK UP	4/10/80	4/11/80	4/18/80
OP 39	CAUSES LOCK UP	4/10/80	4/11/80	4/18/80
INV OP 39	CAUSES LOCK UP	4/10/80	4/11/80	4/18/80

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OP 42	CAUSES LOCK UP DOES NOT EXIST	4/10/80	4/11/80	4/18/80
INV OP 42	CAUSES LOCK UP DOES NOT EXIST	4/10/80	4/11/80	4/18/80
CP	WORKING UNRELIABLY	4/10/80	4/24/80	4/30/80
IE (INV EE)	DOES NOT WORK YET	4/10/80	4/15/80	4/16/80
ENG	DOES NOT WORK YET	4/10/80	4/15/80	4/18/80
IENG (INV ENG)	DOES NOT WORK YET	4/10/80	4/15/80	4/16/80
DRG	FUNCTION WORKS BUT DISPLAY IS INCORRECT	4/10/80	4/15/80	4/18/80
DEG (INV DRG)	FUNCTION WORKS BUT DISPLAY IS INCORRECT	4/10/80	4/15/80	4/18/80
LST	NOT IN YET	4/10/80	5/5/80	5/5/80
INV LST	REGISTERS ARE LISTED BUT DISPLAY CONTAINS SOME GARBAGE	4/10/80	4/21/80	4/22/80
OP 40	OP CODE WORKS BUT THERE IS NO MESSAGE	4/10/80	4/17/80	4/22/80
DEF OP 42	NOT IN YET	4/10/80	4/17/80	4/18/80
DEF OP 50	WAS COMPLEX NUMBERS NOW OP 50 IS THE OLD OP 51 NOW ELIMINATES PGM COUNTER DISPLAY.	4/10/80	4/17/80	4/18/80
OP 3	DOES NOT WORK YET - CAUSES A LOCK UP	4/10/80	4/15/80	4/18/80
OP 13	USED TO WORK NOW CAUSES A LOCK UP	4/10/80	4/17/80	4/18/80
OP 14	USED TO WORK - NOW CAUSES A LOCK UP	4/10/80	4/16/80	4/18/80
INV OP 15	NEVER HAS WORKED CAUSES A LOCK UP	4/10/80	4/17/80	4/18/80
INV OP 31	CAUSES A LOCK UP - SHOULD BE FIXED ON NEXT TAPE	4/10/80	4/15/80	4/18/80
OP 44	CAUSES A LOCK UP	4/10/80	4/17/80	4/18/80
OP 48 AND 49	NEED TO BE CHECKED -	4/10/80	4/16/80	4/18/80
ENG	DOES NOT CLEAR RIGHT	4/16/80	5/15/80	5/20/80

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MOST DIGIT IN DISPLAY

FEATURE	FUNCTION	DATE FOUND	DATE FIXED	DATE CONFIRMED
FIX	GIVES ERROR MESSAGE NO MATTER WHAT MODE ITS IN (EE, ENG, NOTHING) FIX 0 "INVALID MODE" FIX 1-9 " INVALID ENTRY"	4/15/80	4/17/80	4/22/80
P→R	DOESN'T WORK FOR -1,-1 CORRECT MAGNITUDE INCORRECT SIGN	4/16/80	4/18/80	4/18/80
CE/CLR	CE/CLR DOES NOT CLEAR THE RIGHTMOST CHARACTER OF THE DISPLAY.	4/18/80	5/15/80	5/20/80
DFN OP 12 DFN INV OP 12	DEFINE MESSAGES FOR OP 12 AND INV OP 12 ARE SWITCHED	4/18/80	4/18/80	4/18/80
DFN OPS 4-7	MESSAGE OK BUT IS RUN TOGETHER	4/18/80	4/18/80	4/22/80
DFN OPS 8&10	PRESENT BASE GIVEN AS .0 INSTEAD OF 10 - 10 COMES UP IN DISPLAY AFTER MESSAGE IS CLEARED.	4/18/80	4/21/80	4/23/80
DFN OP 28 *****	FIRST CHARACTER IS TYPO THIS IS AN INTERMITTANT SIMULATOR PROBLEM *****	4/18/80	4/18/80	4/18/80
DFN OPS 17,18-20 DFN INV OPS 17,18-20 DFN OPS 23,24	6. APPEARS AT END OF DFN MESSAGES.	4/18/80	4/21/80	4/24/80
DFN INV OP 46	MESSAGE "SO ERROR TONE:YE"	4/18/80	4/21/80	4/22/80
OP 0	WILL PRODUCE MESSAGE FOR FIRST OP CODE AND ITS INVERSE REQUESTED BUT, IT APPEARS TO BE HUNG IN A LOOP AFTER THAT.	4/21/80	4/22/80	4/23/80
INV OP 33	GETS HUNG IN A LOOP THIS FUNCTION IS NOT IN YET	4/21/80	4/21/80	4/23/80
PAU TIMING	NOT WORKING PROPERLY- THIS IS CAUSING PROBLEMS WITH ALPHA DISPLAYS NOT WORKING PROPERLY.	4/21/80	4/22/80	4/23/80
OPS 8,16	DISPLAY NOT BEING CONVERTED TO PROPER BASE	4/21/80	4/22/80	4/22/80
DFN OPS 8,10,16	WHEN BASE IS OCTAL,PRESENT BASE IS LISTED AS 10	4/22/80	4/23/80	4/24/80
INV OP 4-7,9,33	CONTENTS OF DISPLAY	4/22/80	4/23/80	4/24/80

FEATURE	FUNCTION	DATE FOUND	DATE FIXED	DATE CONFIRMED
	DEVIATES FROM OTHER UNDEFINED INVERSES			
DFN INV OP 21	PUTS 6 IN DISPLAY	4/24/80	4/24/80	4/24/80
DFN INV OP 9	GIVES NO MESSAGE	4/24/80	4/24/80	4/24/80
SIGMAS, OPS 23-27	PROBLEM WITH STATISTICS FUNCTIONS - THEY ARE GIVING "INVALID" MESSAGES	4/25/80	4/29/80	4/30/80
FLIP FLAG	DOES NOT HAVE ANY AFFECT ON FLAGS	4/22/80	4/29/80	4/29/80
OP 0	OP 0 GIVES THE SAME DEFINITION AND RANDOMLY VARYING OP CODE NUMBERS INSTEAD OF SEQUENCING THRU THE MESSAGES.	4/29/80	5/2/80	5/2/80
OP 3 , INV OP 3	BOTH OP CODES GIVE INVALID MODE	4/29/80	4/29/80	4/29/80
CMS, CP	CMS NOW GIVES DATE, CP NO LONGER WORKS	4/29/80	4/29/80	4/30/80
OP 26 (MEANS)	NUMBER DISPLAYED IS NOT THE MEAN	4/30/80	4/30/80	4/30/80
OP 25, INV OP 25	NO MATTER WHAT NUMBER IS IN THE DISPLAY THE PREDICTED VALUES ARE THE SAME	4/30/80	5/2/80	5/2/80
SIGMA -	DOES NOT DELETE THE LAST ENTRY	4/30/80	4/30/80	5/5/80
ALARM - OP 44	DISPLAY HAS BLANKS IN IT WHERE ZEROES SHOULD BE	5/2/80	5/2/80	5/2/80
INV OP 26	STD ERR MEAN IS INCORRECT	5/2/80	5/6/80	5/6/80
INV DMS	IS NOT PERFORMING THE CONVERSION CORRECTLY	5/5/80	5/6/80	5/6/80
PAU TIMING, OP 32	PAUSE TIMING IS GETTING WIPED OUT WHEN OP 32 IS EXECUTED *** NOTE: THIS MAY NEVER HAVE BEEN A PROBLEM	5/5/80	5/5/80	5/6/80
PGM	SSS HAS REPORTED A PROBLEM USING THE PGM KEY FROM THE KEYBOARD	5/8/80	5/8/80	5/21/80

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DOWNLOAD	SSS HAS REPORTED THAT DOWNLOAD DOES NOT WORK PROPERLY	5/8/80	5/13/80	5/21/80
OP 8	A NUMBER LIKE 1234567890 IN BASE TEN SHOULD CAUSE AN ERROR WHEN CONVERTED TO BASE 8 BUT, NO ERROR MESSAGE IS GIVEN.	5/12/80	5/12/80	5/20/80
OP 16, OP 10	WHEN CONVERTING FROM HEX TO DECIMAL THE SIMULATOR APPEARS TO GET STUCK IN A LOOP .	5/12/80	5/14/80	5/20/80
OP 04	SSS - CONTINUE RESPONSE IS OK BUT, PRESSING ANY ANY OTHER KEY RESULTS IN LABEL NOT.	5/13/80	5/14/80	5/20/80
READ	SSS - RUNS FOREVER WITHOUT PERFORMING DOWNLOAD FUNCTION	5/13/80	5/14/80	5/21/80
OP 16	ATTEMPTING TO CONVERT A NUMBER IN HEX WHICH IS TOO LARGE INTO BASE 10 CAUSES THE SIMULATOR TO THINK IT IS IN DECIMAL MODE BUT IT WILL NOT GO INTO HEX MODE UNLESS YOU GO INTO BASE 8 AND THEN BASE 16.	5/13/80	5/14/80	5/20/80
OP 32	WILL NOT LIST LABELS BEYOND STEP 7	5/14/80	5/15/80	5/20/80
OP 03	IF 0 REGISTERS ARE REQUESTED THE SECOND LINE OF THE MESSAGE IS INVALID REGISTER	5/14/80	5/15/80	5/20/80
LST	DOES NOT DISPLAY PGM STEPS WHEN ONLY ONE REGISTER IS REQUESTED	5/14/80	5/15/80	5/20/80
INV LST	WITH ONE REGISTER - IT LIST THAT REGISTER AND THEN THE INVALID REGISTER MESSAGE. WITH 60 REGISTERS IT DOES NOT DISPLAY ANYTHING BUT THE FIRST REGISTER.	5/14/80	5/15/80	5/20/80
DFN INV OP 3	GIVES 'OUT OF RANGE' AS MESSAGE	5/15/80	5/15/80	5/20/80

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OP 13	SSS - HIERARCHY FLAG IS LEFT ON : 3 STO R 4 OP 13 RCL R GIVES 4 AS ANSWER NOT 3	5/15/80	5/27/80	5/29/80
DEG DRG	SSS - AFTER DEG ERROR FLAG IS SET SO THAT DEG DRG DOES NOT PUT YOU IN RADIAN	5/16/80	5/16/80	5/20/80
OP 29	SSS - BEHAVES ERRATICALLY OFTEN GIVES 'INVALID REGISTER'	5/19/80	5/27/80	5/29/80
LST	SIMULATOR LOCKED UP AFTER COMPLETING THIS FUNCTION	5/20/80	5/20/80	5/29/80
INV LST	SIMULATOR LOCKED UP AFTER AFTER DISPLAYING 10 REGISTERS	5/20/80	5/27/80	5/29/80
LST HIER REG	AFTER LISTING 62 HIERARCHY REGISTERS THE MESSAGE 'INVALID REGISTER' IS GIVEN	5/20/80	5/27/80	5/29/80
OP 32	WILL LIST ONLY THE FIRST LABEL - THEN DISPLAYS GARBAGE AND QUILTS	5/20/80	6/4/80	6/4/80
CE	WILL NOT CLEAR RIGHTMOST NUMERAL FROM DISPLAY	5/20/80	6/6/80	6/9/80
ALPHA MSG	DISPLAYING AN ALPHA MESSAGE WITH A NEGATIVE NUMBER IN THE DISPLAY APPEARS TO DELETE THE NEGATIVE SIGN. ALSO, WITH 4 CHARACTERS AND NUMBER IN DISPLAY - NUMBER APPEARS TO BE IN LOCATIONS 4-15 INSTEAD OF 5-16.	5/22/80	6/6/80	6/13/80
RST	SSS - DOESN'T EXIT CUE OR R/S MODE IN CROM	5/30/80	6/2/80	6/13/80
OP 32	DISPLAYS ALL LABELS BUT DOES NOT STOP RUNNING WHEN IT SHOULD	6/4/80	6/6/80	6/13/80
SIGNUM INV OP 28	TAKES A -0. AND RETURNS A -1. ANSWER INSTEAD OF 0	6/4/80	6/6/80	6/9/80
DOS	GIVES INCORRECT RESULTS FOR NEGATIVE ARGUMENTS	6/6/80	6/9/80	6/13/80
R->P	SSS - GIVES INCORRECT	6/10/80	6/13/80	6/13/80

FEATURE	FUNCTION	DATE FOUND	DATE FIXED	DATE CONFIRMED
	ANSWERS FOR SECOND QUADRANT ARGUMENTS			
EXPONENT	NEGATIVE ZERO EXPONENT CAUSES SIMULATOR TO LOCK UP. THIS CANNOT BE ENTERED DIRECTLY FROM THE KEYBOARD AND WAS DISCOVERED WHEN NUMBERS WERE LOADED INTO THE CROM FROM A CASSETTE.	6/12/80	6/12/80	7/1/80
R/S	SSS - DOES NOT STOP EXECUTION OF A PROGRAM FROM KEYBOARD ** NOTE: READING A NEW TAPE IN CAUSED THIS PROBLEM TO DISAPPEAR	6/17/80	6/26/80	6/26/80
ERROR MESSAGES	SSS - IN RUN MODE ERROR MESSAGES ARE NOT DISPLAYED	6/17/80	7/29/80	7/29/80
FIX	SSS - ALTERS DISPLAY VALUE	6/17/80	6/17/80	6/27/80
IFIX	SSS - SETS FIX TO 0 INSTEAD OF 9	6/17/80	6/17/80	6/27/80
OVERFLOW	WHEN A VERY LARGE NUMBER SUCH AS 1EE99 IS MULTIPLIED BY A NUMBER LARGE ENOUGH TO CAUSE AN OVERFLOW (1EE99 X 10) IT DOES NOT GIVE AN ERROR MESSAGE. INSTEAD THE NUMBER IN THE DISPLAY IS 1. 00	6/18/80	6/25/80	6/25/80
INT	NOT WORKING PROPERLY FOR NUMBERS WITH A 0 AS THE FIRST DIGIT TO THE RIGHT OF THE DECIMAL.	6/18/80	6/26/80	6/26/80
ZERO POWERS	0 UP ARROW 0 GIVES INVALID ARGUMENT. 0 RAISED TO THE INTEGER POWER 0 IS 0. ANY OTHER NUMBER RAISED TO THE INTEGER POWER 0 GIVES THAT NUMBER INSTEAD OF 1.	6/24/80	6/26/80	6/26/80
MULT OR SBR	SSS - THE FOLLOWING PROGRAM GIVES AN INCORRECT ANSWER THE FIRST TIME IT IS EXECUTED AFTER A CE CLR USING 'A' TO EXECUTE IT BUT, IT WORKS CORRECTLY THE SECOND TIME IT IS EXECUTED OR THE FIRST TIME IF YOU SINGLE STEP THROUGH IT OR HAVE TRACE TURNED ON. LBL A PAU (STO B SIN X 4 +1-B)PAU RTN	6/27/80	6/30/80	7/1/80

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HIERARCHY FLAG	HIERARCHY FLAG IS LEFT ON CAUSING A VALUE ON THE TOP OF THE STACK TO BE STORED INSTEAD OF THE DISPLAY VALUE. THIS WILL OCCUR DEPENDING ON THE ORDER OF THE OPERANDS. 10 STO A PI A = STO A GIVES 31.4... IN THE DISPLAY BUT PI IS STORED IN REGISTER A. IF THE ORDER OF PI AND A IS REVERSED THEN THIS SEQUENCE WORKS CORRECTLY.	6/30/80	7/18/80	7/18/80
TIME	WHEN THERE IS A LIVE ENTRY AND THE TIME KEY IS PRESSED THE CURRENT TIME COMES UP IN THE DISPLAY BUT, THE DISPLAY FLASHES WAITING FOR A LIVE ENTRY AND DOES NOT SHOW TIME INCREMENTING.	6/30/80	7/1/80	7/11/80
LOG	LOGS ARE NOT WORKING AND THIS IS AFFECTING OTHER FUNCTIONS WHICH USE LOGS.	6/30/80	7/1/80	7/1/80
CP	CLEAR PROGRAM IS NOT WORKING. WHEN 2ND INV CMS IS PRESSED NOTHING HAPPENS.	7/1/80	7/7/80	7/7/80
SIN	DOES NOT WORK WITH NEGATIVE ARGUMENTS.	7/7/80	7/21/80	7/21/80
ADV	SJB - ADVANCE CAUSES THE PRINTER TO PRINT GARBAGE UNTIL A POWER UP CLEAR IS PERFORMED ON THE PRINTER SIMULATOR.	7/9/80	7/10/80	7/14/80
PRT	SJB - THE LAST PRT COMMAND IN A PROGRAM DOES NOT PRINT. THIS OCCURS WHEN EITHER FLAGS C OR D ARE TURNED ON. IT WORKS OK IF THE FLAGS ARE TURNED OFF.	7/9/80	7/18/80	7/18/80
	***** NOTE: THIS BUG COULD NOT BE RECREATED			
SIN	SSS - SIN(270) = -1 SIN OF 269 AND 271 ARE POSITIVE	7/9/80	7/21/80	7/21/80
OP 0, TRACE	SJB - WITH THE TRACE FLAG ON OP 0 WHEN EXECUTED FROM RUN MODE DOES NOT PRINT PROPERLY. ***** NOTE: THIS PROBLEM COULD NOT	7/9/80	7/14/80	7/14/80

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BE RECREATED AND MAY BE
CAUSED BY A TRANSIENT
HARDWARE PROBLEM.

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LST LABELS (OP 40)	DOES NOT WORK IN RUN MODE. LOCKS THE SIMULATOR UP.	7/9/80	7/14/80	7/21/80
TRACE	SJB - DOES NOT TRACE THE FOLLOWING FUNCTIONS: P<->R, HIER, NOP, ALPHA, EE, ENG, INV ENG INS, BST, SS, DEL, SBIT, RBIT, FBIT, VARH, INDH, RCLD, STOD, INV STOH, INV INDH, INV HIER. EQN, CEQ, SIGMA +, SIGMA-. TRACES FIX AND FLT TWICE.	7/9/80	7/17/80	7/18/80
HEX (OP 16)	WWM - IF THE CALCULATOR IS IN HEX MODE AND = IS PRESSED THE DISPLAY GOES BLANK.	7/10/80	7/11/80	7/14/80
OP 16, EE	WWM - IF THE CALCULATOR IS EE MODE AND OP 16 IS PRESSED THEN EE MODE IS DISPLAYED IN HEX.	7/10/80	7/11/80	7/14/80
INV P-->R	SSS - DOES NOT WORK WITH SECOND QUADRANT VALUES.	7/11/80	7/21/80	7/22/80
ERROR MESSAGE	WWM -THE FOLLOWING SEQUENCE CAUSES A SMALL ZERO TO DISPLAY WHERE A LARGE ZERO SHOULD BE. 5 ()N . INVALID SEQUENCE OP 0 <----- LITTLE ZERO	7/11/80	7/11/80	7/14/80
LBL, SBL, FLAG C	SJB - INVALID ENTRY ERROR MESSAGE IS DISPLAYED WHEN A PROGRAM IS RUNNING, FLAG C IS ON AND INV LST OR OP 00 ARE FOLLOWED BY A LBL OR SBL. THE ERROR DOES NOT OCCUR WITH THE FLAG TURNED OFF. ***** NOTE: THIS BUG COULD NOT BE RECREATED	7/10/80	7/17/80	7/17/80
INV, DISPLAY	JGJ - WHEN AN INVERSE FUNCTION IS PERFORMED AND THERE IS A NUMERIC FIELD, THE DISPLAY IS CLEARED AND THE LAST DIGIT OF THE NUMERIC FIELD IS LEFT JUSTIFIED IN THE DISPLAY.	7/10/80	7/17/80	7/18/80

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EXAMPLE: INV RST 6 APPEARS
INV RST
6

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EE	<p>LOG(10EE99) = 1. 02 (WHICH IS ACTUALLY 99.999999999999) INV LOG = 1. 00 LOG = 1. 02 IF THE ARGUMENT TO INV LOG IS >=100.0 THEN INV LOG (1. 02) CAUSES AN ERROR MESSAGE TO BE PRINTED.</p> <p>100EE99 LOG = 1.01 02 1000EE99 LOG = 1.02 02 ETC.</p>	7/11/80	7/15/80	7/21/80
SST, INS, BST, DEL	<p>IN A PROGRAM AN SST WILL CAUSE "INVALID SEQUENCE" INS, BST, AND DEL DO NOT HAVE ANY AFFECT.</p> <p>***** NOTE: THIS IS THE EXPECTED RESULT</p>	7/11/80	7/15/80	7/15/80
ENG MODE	<p>OP CODES WITH NUMERIC MESSAGES (OP 2,3,40,47) DO NOT DISPLAY PROPERLY IN THIS MODE.</p> <p>EXAMPLES: OP 2 9GM STEPS 0000-.47 OP 40 .002 LBL 41 OP 47 6.C 01 (INSTRUCTION AT LOCATION 0 WAS A 6C)</p>	7/16/80	7/28/80	7/29/80
DISPLAY	<p>WHEN 9.99999999EE99 = IS ENTERED THE DISPLAY SHOWS 1. 00</p>	7/16/80	7/21/80	7/21/80
LST	<p>LST, R/S FOLLOWED BY EITHER STF D OR CMS CAUSES THE CALCULATOR TO ACT LIKE IT IS TRYING TO DO AN OP 9.</p>	7/16/80	7/21/80	7/21/80
INV LST	<p>INV LST DOES NOT WORK FROM A PROGRAM.</p>	7/18/80	7/21/80	7/21/80
UNNORMALIZED #'S	<p>WITH A NUMBER < 1 IN THE DISPLAY GOING INTO UNNORMALIZED MODE CAUSES ONLY 15 DIGITS TO BE DISPLAYED THE RIGHTMOST CHARACTER IS BLANK. AFTER CONVERTING BACK TO NORMALIZED NUMBERS THE NUMBER</p>	7/21/80	7/28/80	7/29/80

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	IS CORRECTLY DISPLAYED. IF THE NUMBER IS RECALLED FROM A REGISTER IN UNNORMALIZED MODE IT IS DISPLAYED PROPERLY.			
INV LST	LIST THE REGISTERS OK BUT AT THE END GIVES THE ERROR MESSAGE OUT OF RANGE.	7/21/80	7/23/80	7/29/80
OPS 32-39	GIVE THE ERROR MESSAGE LABEL NOT FOUND.	7/21/80	7/28/80	7/28/80
OP 30	GIVES ERROR MESSAGE INVALID ADDRESS	7/21/80	7/29/80	7/29/80
DAT/TIM	WILL NOT WORK WHEN YOU TRY TO ENTER THE TIME.	7/21/80	7/29/80	7/29/80
()N	INTEGER POWERS WHEN USING AN IND FIELD FOLLOWING THE OPERATION CAUSES THE INTEGER VALUE STORED TO APPEAR AFTER THE DECIMAL POINT. 2STO A 5.()N IND A GIVES 25.2 IF FOLLOWED BY AN = THE NUMBER TO THE RIGHT OF THE DECIMAL DISAPPEARS.	7/21/80	7/28/80	7/29/80
LOW BATTERY	THIS MESSAGE APPEARS FREQUENTLY WHEN TURNING THE CALCULATOR OFF.	7/21/80	7/28/80	7/29/80
EE MODE	IF THE NUMBER 9.999999EE99 IS ENTERED THE CALCULATOR ACCEPTS IT. HOWEVER, MORE THAN 6 NINES TO THE RIGHT OF THE DECIMAL CAUSES THE UNDER/OVER FLOW ERROR MESSAGE TO APPEAR.	7/23/80	7/23/80	7/23/80
	***** NOTE : THIS IS NOT A BUG - THIS IS THE LARGEST NUMBER THAT CAN BE DISPLAYED IN EE MODE. (SEVEN DIGITS TOTAL FOLLOWED BY EE AND A TWO DIGIT EXPONENT)			
GTO, SBR, LBL	SSS - GTO LBL AND SBR LBL GIVES INVALID SEQUENCE IN CROM ALSO OCCURS FROM MAIN MEMORY AND KEYBOARD. GTO LBL AND SBR LBL DO NOT MERGE IN LRN MODE.	7/28/80	7/29/80	7/29/80

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OP 40

SJB/ESA - WORKS OK FROM
KEYBOARD BUT AT THE END OF
THE LABEL LIST IN PROGRAM MODE,
THE INVALID ADDRESS ERROR MESSAGE
IS DISPLAYED.

7/21/80

8/4/80

8/4/80

***** NOTE: THIS IS NOT A BUG THIS IS THE WAY
OP 40 WORKS FROM A PROGRAM.

R/S, GBR, GFR

SSS - IF A R/S INSTRUCTION
IS EXECUTED IN CROM GFR AND
GBR INSTRUCTIONS CAN BE USED
TO CHANGE THE PC.

7/28/80

7/30/80

8/5/80

EQN

SJB - ATTEMPTING TO EXECUTE
FROM PROGRAM MODE KILLS THE
CALCULATOR.

7/29/80

7/30/80

8/1/80

FIX

DC- FIX CAUSES NUMBERS IN
IN THE DISPLAY IN EE OR ENG
MODE TO BE DISPLAYED IN FIXED
FORMAT AFTER THE EXECUTION OF
THE FIX.
THIS OCCURS ONLY IF THE NUMBER
IS LESS IN MAGNITUDE THAN 1EE10.

7/30/80

8/1/80

8/5/80

OP 46

SJB - EXECUTING THIS OP
GIVES ERROR MESSAGE INVALID
ADDRESS.

7/31/80

8/5/80

8/6/80

FLAG F

SJB - ALWAYS STOPS ON ERROR
EVEN IF THE FLAG IS NOT
NOT SET.

7/31/80

7/31/80

7/31/80

INV CMS (CP)

ESA - CLEARS THE PROGRAM
BUT LEAVES A SINGLE RIGHT
BRACKET WHERE THE 0000
PROGRAM COUNTER SHOULD BE.

8/1/80

8/4/80

8/5/80

UPLOAD

LJF - UPLOAD IS NOT WORKING

8/1/80

8/3/80

8/5/80

OP 00

ESA - DOES NOT PRINT DEFINE
OP 77.

8/1/80

8/4/80

8/5/80

INV DMS

ESA - DISPLAYS 2.04599999
AS 2.046

8/2/80

8/7/80

8/7/80

OP 36

ESA - MEAN OF Y IS LABELED
X-BAR IN THE DISPLAY.

8/3/80

8/5/80

8/5/80

OP 47

HM/AEM - THIS OP WILL
OCCASIONALLY PUT THE
CALCULATOR IN CONT CUE
MODE.

8/4/80

8/8/80

8/8/80

***** NOTE: THIS BUG WAS NOT REPEATABLE

FEATURE

FUNCTION

DATE
FOUNDDATE
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FEATURE	FUNCTION	DATE FOUND	DATE FIXED	DATE CONFIRMED
OP 70	ESA/SJB/HM - DISPLAYS FLAGS 2-9 AS ONES.	8/4/80	8/4/80	8/5/80
ALPHA	HM - IF A LIVE ALPHA MESSAGE IS IN THE DISPLAY WITH 1-15 CHARACTERS A DFN XX WILL ADD ON ITS MESSAGE WITH OUT CLEARING THE DISPLAY FIRST.	8/4/80	8/8/80	8/8/80
OP 30	SJB - SOME VALUES IN THE DISPLAY FOLLOWED BY AN OP 30 CAUSE DIFFERENT ERROR MESSAGES TO PRINT AS FOLLOWS: (THIS OCCURS WHEN RUNNING FROM CROM) 32 OP 30 "LABEL NOT FOUND" (NOT REPEATABLE) 69 OP 30 "INVALID ADDRESS" 76 OP 30 "INVALID ENTRY" (OK) 64 OP 30 "BO. 0B4" (NOT REPEATABLE)	8/4/80	8/5/80	8/6/80
DFN A	SJB - DFN A DOES NOT ACCEPT A VALUE FROM ENTER AND DOES NOT LABEL THE VALUE IN THE DISPLAY. THIS OCCURS IN CROM. ***** NOTE: THIS ERROR COULD NOT BE REPEATED	8/4/80	8/5/80	8/7/80
EOS ERROR, ALPHA	SJB - WHEN AN EOS ERROR OCCURRS FOLLOWED BY AN ALPHA THE CALCULATOR GOES HALF WAY INTO ALPHA MODE BEFORE THE ERROR MESSAGE ARRIVES (ONE CHIP IS IN ALPHA MODE THE OTHER ONE IS NOT) THE CHIP NOT IN ALPHA MODE SENDS BACK THE INFORMATION THAT AN ERROR HAS OCCURRED TO THE CHIP IN ALPHA MODE WHICH THEN TRIES TO EXECUTE THE CODE FOR THE ERROR BUT TREATS THE CODE AS ALPHA CHARACTERS WHICH DOES NOT WORK.	8/4/80	8/5/80	8/5/80
ERROR MESSAGE	SJB - LOG 0 "INVALID ARGUMENT" (THIS IS OK) LN 0 "INVALID ARGUMENT" (THIS IS OK) 1+ FOLLOWED BY EIGHTTEEN 1. (GIVES "INVALID ADDRESS" THIS HAPPENED FROM CROM.	8/4/80	8/5/80	8/5/80
INV TIM	SJB - INV DAT PRT INV TIM GIVES TWO DIFFERENT ERROR MESSAGES FROM CROM: "LABEL NOT FOUND" "INVALID ENTRY"	8/4/80	8/5/80	8/5/80

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HEX, F

JAF - ENTERING UP TO EIGHT F'S IN HEX MODE THE F'S ARE PADDED ON THE LEFT BY A ZERO THE NINTH F REPLACES THE ZERO. NO OTHER NUMBER IN HEX MODE IS DISPLAYED THIS WAY. (THIS OCCURS WHEN EXECUTING AN OP 17 AFTER ENTERING THE F) OF OFF OFFF OFFFF ETC.

PROMPTING

JAF - THE FOLLOWING SEQUENCE WILL CAUSE A JUMP INTO THE PROMPTING ROUTINE:

ENTER OP 16
 ENTER OP 62
 DISPLAY HEX 0
 DISPLAY PAU 9.9
 ENTER D
 DISPLAY ORDER MO/DA/YR?
 ENTER 2ND F =
 DISPLAY OF.
 ENTER A (YES)
 DISPLAY SUN?
 ENTER A (YES)
 DISPLAY SET DATE?

***** NOTE: THIS ERROR COULD NOT BE REPEATED

PROMPTING, OP 46

JAF - THE FOLLOWING SEQUENCE CAUSES THE SIMULATOR TO LOCK UP:

SET TIME? YES
 12 HOUR CLOCK? NO
 24 HOUR CLOCK? OP 46

***** NOTE: THIS IS THE BUG FROM OP 46

OP 0=, R/S

DC - OP 0= HALTED WITH A R/S CAUSES THE PROGRAM TO BEGIN EXECUTION OF A PROGRAM.

OP 72

BG - CAN'T UNNAME CRAM 8/4/80 8/4/80 8/4/80

INV READ
UPLOAD

BG - CAN'T WRITE PROGRAMS CRAM. 8/4/80 8/4/80 8/5/80

***** NOTE: THIS WAS THE PREVIOUSLY REPORTED BUG WITH UPLOAD.

OP 30, R/S

RUN/STOP DOES NOT HALT OP 30 8/4/80 8/5/80 8/6/80

GFR

JP - GFR OX GOES FORWARD X STEPS CORRECTLY BUT GFR X FOLLOWED BY A FIELD COMPLETER 8/5/80 8/5/80 8/5/80

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(SUCH AS +) GOES FORWARD AT LEAST
X + 2 STEPS (DEPENDING ON HOW MANY
STEPS ARE BETWEEN THE GFR X AND THE
FIELD COMPLETER). A NOP DOES NOT ACT
AS A FIELD COMPLETER.

***** NOTE: THIS IS THE WAY GFR IS SUPPOSED TO WORK

FEATURE	FUNCTION	DATE FOUND	DATE FIXED	DATE CONFIRMED
PROMPTING, HIER	THE PROMPTING ROUTINE IS IS LEAVING THE HIERARCHY FLAG ON.	8/4/80	8/5/80	8/5/80

SET ALARM	LJF - CAN'T SET THE ALARM TO A SINGLE DIGIT NUMBER.	8/5/80	8/6/80	8/7/80
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OP 30	JAF - AFTER PRINTING THE STATUS OF OP 17 THE ERROR MESSAGE "INVALID SEQUENCE" IS DISPLAYED.	8/5/80	8/6/80	8/6/80
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***** NOTE: THIS BUG COULD NOT BE DUPLICATED

OP 00	ESA/LJF - THE HIERARCHY BIT IS LEFT ON BY THIS OP CODE.	8/5/80	8/6/80	8/6/80
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INV DMS	ESA - EXECUTING THIS KEY GIVES "INVALID ADDRESS".	8/5/80	8/7/80	8/7/80
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RTN	BG - A PROGRAM WHICH STARTS ON ONE CHIP AND ENDS ON THE SECOND CHIP FOULS UP RTN.	8/5/80	8/5/80	8/6/80
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OP 34	ESA - THIS OP IS GIVING THE WRONG ERROR MESSAGE WHEN THE SLOPE IS UNDEFINED. THE ERROR GIVEN IS "INVALID ADDRESS" INSTEAD OF "INADEQUATE DATA".	8/5/80	8/6/80	8/6/80
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DMS, INV DMS	SJB - ALWAYS RETURN ANSWER OF ZERO.	8/6/80	8/7/80	8/7/80
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OP 22-27	ESA - WHEN BAILING OUT WITH UNDER/OVERFLOW ERROR THESE OPS ARE LEAVING THE HIERARCHY BIT SET.	8/6/80	8/6/80	8/7/80
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OP 26	ESA - 1.EE-99 OP 26= 9.EE00	8/6/80	8/6/80	8/7/80
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FACTORIAL	ESA - 70! AND 1000! ARE LEAVING THE HIERARCHY BIT ON AND LEAVING 70 IN THE DISPLAY. -1. ! LEAVES -1 IN THE DISPLAY AND LEAVES THE HIERARCHY BIT ON.	8/6/80	8/7/80	8/7/80
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SSM - .5! = 0.

TRACE , EE

ESA - WITHOUT TRACE ON 8/6/80 8/6/80 8/7/80

1. EE-99 OP 22 MAKES THE
DISPLAY CLEAR COMPLETELY
HITTING CE CAUSES 1.745329-02
TO APPEAR.

1. EE-98 OP 22 = 1.745329-00
WHICH SHOULD CAUSE AN "UNDER/OVERFLOW"
ERROR TO OCCUR SINCE THE ANSWER SHOULD
BE TO THE -100TH POWER. NO ERROR IS FLAGGED.

70! AND 1000! ALSO MAKES THE DISPLAY GO BLANK
CE MAKES 70 APPEAR IN THE DISPLAY.

LEGAL INPUTS TO OPS 22-27 AND FACTORIAL
WORK OK.

OP 30

LJF - PRINTING STATUS OF 8/6/80 8/7/80 8/7/80
CLOCK ALARM OFF TWICE.

OP 3

LJF - 2144 OP 3 RETURNS 8/6/80 8/7/80 8/7/80
"PGM STEPS 0-2143"
AND THEN THE DISPLAY GOES
BLANK - REGISTERS: NONE
IS NOT DISPLAYED.

STO IND

HM - THE FOLLOWING SEQUENCE 8/7/80 8/8/80 8/8/80
USING STO IND TO STORE
THE NUMBERS 1-10 IN REGISTERS
30 - 39 IS CAUSING SOME OF THE
NUMBERS TO BE PLACED IN OTHER
REGISTERS ALSO:

CMS

STO IND D WHERE D CONTAINS NUMBERS 30-39
VALUES 1-10 ARE STORED. (INCREMENTED BY 1 EACH TIME)

REGISTERS NUMBER

30	40	60	70	1
31	41	61	71	2
32	42	62	72	3
33	43	63	73	4
34	44	64		5
25	35	65		6
26	36	66		7
27	37	67		8
28	38	68		9
29	39	69		10

***** NOTE: THIS IS A HARDWARE PROBLEM

DFN, EQN

DC - IN EQN MODE DFN ALPHA 8/7/80 8/7/80 8/7/80
FOLLOWED BY A NUMBER DOES
NOT DO AN IMPLIED MULTIPLY
ALTHOUGH THE DFN ALPHA ACTS

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AS AN ENTRY.

***** NOTE: THE DFN IS TREATED AS A STORE WHICH CANCELS IMPLIED MULTIPLY AT THAT POINT. THIS IS THE WAY IT IS SUPPOSED TO WORK.

SET TIME	BG - MINUTES ARE SET ONLY IN MULTIPLES OF 10 : ENTER: 55 MINUTES 50 MINUTES IS DISPLAYED ENTER: 35 MINUTES 30 MINUTES IS DISPLAYED	8/7/80	8/7/80	8/8/80
SIGMA +, SIGMA -	SJB - AN UNDER/OVERFLOW ERROR WITH SIGMA+/- WILL CAUSE THE ERROR BIT TO BE LEFT ON.	8/7/80	8/7/80	8/8/80
PROMPTING	DC - "INVALID MODE" IS DISPLAYED INSTEAD OF CUE OR R/S MODE AFTER ATTEMPTING TO EXECUTE OP 73 DURING THE PROMPTING SEQUENCE.	8/7/80	8/7/80	8/8/80
OP 43, HEX, OP 17 EXPONENT	JAF - THE FOLLOWING SEQUENCE ALLOWS AN EXPONENT OF FF: OP 43 123456789ABCDEF OP 17 -----> DEC 1.234568(EE)FF	8/7/80	8/7/80	8/8/80
DFN RCL 26, ENG	SJB - WITH FLAGS CDF ON AND ENG MODE ON DFN RCL 26 LABELS THE RECALL VALUE .02: INSTEAD OF 26	8/6/80	8/8/80	8/8/80
OP 30	SJB - IN CROM EXECUTING OP 30 WITH 45, 67, 69, OR 76 IN THE DISPLAY GIVES THE ERROR "INVALID ENTRY". ***** NOTE: THE OP CODE'S METHOD OF OPERATION HAS CHANGED SO THAT THE NUMBER IN THE DISPLAY NO LONGER AFFECTS THE OP CODE.	8/6/80	8/8/80	8/8/80
OP 00	SJB - 72 OP 00 GETS CAUGHT AN INFINITE LOOP PRINTING OP 73 "OP DEFINITIONS".	8/6/80	8/8/80	8/8/80
OP 00	ESA - OP DEFINITIONS GIVES "OUT OF RANGE" ERROR.	8/7/80	8/8/80	8/8/80
OPS 38, 39	SSM - THE LABELS S AND SIGMA ON THE N AND N-1 STANDARD DEVIATIONS ARE BACKWARDS.	8/8/80	8/8/80	8/8/80

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FEATURE	FUNCTION	DATE FOUND	DATE FIXED	DATE CONFIRMED
SELECT PROGRAM	<p>BG - IN THE PROMPTING SEQUENCE SELECT PROGRAM DOES NOT WORK - VALID PROGRAM NUMBERS CAUSE THE ERROR MESSAGE INVALID PROGRAM# TO BE DISPLAYED.</p> <p>THE SAME PROGRAM CAN BE EXECUTED FROM THE KEYBOARD USING PGM AND USER DEFINED LABEL KEYS.</p>	8/4/80	8/11/80	8/11/80
TIME, HEX	<p>JAF - THE FOLLOWING SEQUENCE ALLOWS THE 12 HOUR CLOCK TO BE SET TO 15:00AM 12 HOUR CLOCK? Y</p> <p>ENT HOUR F ENT PM TIME? NO</p>	8/4/80	8/9/80	8/11/80
TIME	<p>SJB - THE FOLLOWING SEQUENCE CAUSES TIME TO COME UP IN THE DISPLAY:</p> <p>O. = = =</p>	8/7/80	8/11/80	8/11/80
PROMPTING, SELECT MODULE#	<p>ESA/AEM/LJF - SELECTING A MODULE NUMBER WHICH ENDS IN A ZERO CAUSES THE ERROR MESSAGE "NOT INSTALLED" TO BE PRINTED.</p>	8/8/80	8/9/80	8/11/80
OP 16, 17	<p>ESA - AFTER GOING INTO HEX MODE ATTEMPTING TO EXECUTE OP 17 GIVES "INVALID MODE"</p>	8/8/80	8/9/80	8/11/80
UNNORMALIZED #	<p>ESA - IN UNNORMALIZED NUMBER MODE THE STATUS INDICATES THE CALCULATOR IS IN HEX MODE WHEN IT WAS IN DECIMAL MODE PRIOR TO OP 43 (UNNORMALIZED #).</p>	8/8/80	8/9/80	8/11/80
DFN RCL, OP	<p>ESA/ LJF - DEFINE RECALL IS NOT TRACING THE DFN. RECALL FOLLOWED BY THE REGISTER NUMBER IS ALL THAT IS TRACED.</p>	8/8/80	8/11/80	8/11/80
OP 30	<p>ESA - AFTER REPARTITIONING MEMORY OR DOING AN OP 72 WHICH AFFECTS MEMORY PARTITIONING OP 30 WOULD SKIP THE PROGRAM STEPS STATUS, PRINT THE REGISTER STATUS LINE AND THEN PRINT INVALID REGISTER AND STOP.</p>	8/8/80	8/8/80	8/11/80
LRN, CP, TRACE	<p>ESA - WITH TRACE ON (FLAGS C, D) CP LOCKS UP THE CALCULATOR</p>	8/8/80	8/11/80	8/11/80

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PUSHING THE TIME SWITCH UNLOCKS
IT.

RCL, ERROR

GAT - THE FOLLOWING TWO 8/11/80 8/11/80 8/11/80
SEQUENCES GIVE INCONSISTENT
RESULTS:

RCL 099 GIVES: "INVALID REGISTER"

RCL 99= GIVES: 0.

THIS OCCURS FOR ANY REGISTER
NUMBER GREATER THAN THE NUMBER
OF REGISTERS PARTITIONED.

***** NOTE: THE EQUAL SIGN CAUSES THE ERROR
MESSAGE NOT TO BE DISPLAYED BUT
THE DISPLAY IS FLASHING INDICATING
THAT AN ERROR HAS OCCURRED.

PAUSE TIMING

ESA - OP 01 FOLLOWED 8/11/80 8/11/80 8/11/80
BY AN OP 30 INDICATES
THAT PAUSE TIMING IS SET
TO 0.0

OP 30

SJB - EXECUTING OP 30 FROM 7/29/80 8/11/80 8/11/80
A PROGRAM CAUSES TRACE
TO GO THROUGH ONBOARD
CROM CODE.

THIS OCCURS WHEN EXECUTING
CROM CODE WHICH GOES TO AN ERROR
WHEN IT SHOULDN'T, FLAG D IS ON,
AND EXECUTION IS CONTINUED
WITH A RUN/STOP. THIS PROBLEM
OCCURRED AFTER ATTEMPTING TO
EXECUTE AN OP 46 WHICH GAVE ERROR
"INVALID ADDRESS".

***** NOTE: THIS BUG IS NOT REPEATABLE
SINCE OP 30 AND THE ERROR MESSAGES
HAVE BEEN CHANGED.

DISPLAY

SJB - THE FOLLOWING PROGRAM 8/11/80 8/11/80 8/12/80
RUN FROM CROM PRINTS CORRECTLY
BUT DOES NOT DISPLAY CORRECTLY:

5 +/- ABS 1 - 3.2 ABS
(THE 1 - PRINTS PROPERLY BUT
IS NOT DISPLAYED CORRECTLY)
FIX 3, ENG MODE

***** NOTE: THIS IS NOT A BUG THE SEQUENCE WAS
WAS CAUSED BY A PENDING OP.

LABELS, CROM

HM - LABELS IN CROM ARE NOT 8/7/80 8/11/80 8/12/80
BEING FOUND.

***** NOTE: THIS PROBLEM COULD NOT BE DUPLICATED.
IT WAS PROBABLY CAUSED BY A STICKY KEYBOARD.

-RST

HM - PERFORMING A RST 8/8/80 8/11/80 8/12/80
FORM THE KEYBOARD WHILE
RUNNING IN CROM DOES NOT

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RETURN THE CALCULATOR
TO MAIN MEMORY.

***** NOTE: THIS BUG COULD NOT BE DUPLICATED

R/S	HM - R/S WILL STOP AND START CROM PROGRAMS.	8/7/80	8/11/80	8/13/80
OP 03	ESA - D OP 03 GIVES PGM STEPS 0-0999 , REGISTERS= 0-0267	8/8/80	8/11/80	8/13/80
ALARM	ESA - ALARM CANNOT BE SET.	8/11/80	8/11/80	8/13/80
TRACE	SJB - ON CONDITIONAL STATEMENTS TRACE PRINTS THE STATEMENT FOLLOWING THE CONDITIONAL EVEN IF THAT STATEMENT IS NOT TO BE EXECUTED (THE CONDITION IS FALSE)	7/11/80	8/11/80	8/13/80
LST	GAT - WITH ZERO PROGRAM STEPS ONE STEP IS LISTED.	8/5/80	8/13/80	8/13/80
ERROR MESSAGE	DC - "LABEL NOT FOUND" IS DISPLAYED AFTER RUNNING PAST THE END OF MEMORY.	8/7/80	8/13/80	8/13/80
LRN	DC - AFTER RUNNING PAST THE END OF MEMORY LRN MODE CAN NOT BE ENTERED.	8/7/80	8/13/80	8/13/80
OP 59	AEM - 00 HOURS DOES NOT CHANGE TO 12:00 PM WHEN GOING FROM 24 HR TIME TO 12 HOUR TIME.	8/12/80	8/11/80	8/13/80
USER DEFINED CROM LABELS K-Z	DO'G - USER DEFINED CROM LABELS K-Z DO NOT WORK.	8/5/80	8/11/80	8/13/80
FLAG E, RST	HM - RST DOES NOT RESET THE ERROR FLAG.	8/11/80	8/14/80	8/14/80
	***** NOTE: RESET CLEARS FLAGS 0-B ONLY.			
DPS 8-9	JAF - IN UNNORMALIZED NUMBER MODE THE FOLLOWING SEQUENCE ALLOWS AN ALPHA TO BE INSERTED AFTER THE DISPLAYED ALPHA: R/S (WITH NOTHING IN LRN) GIVES " INVALID ADDRESS" OP 08 ----> "INVALID ADDRESS" C/E --> 5000000000000000 OP 09 ----> "INVALID ADDRESS" C/E --> 5000000000000000 SWITCH TO ALPHA MODE AND PUT AN A AFTER ADDRESS OP 08 ----> "INVALID ADDRESS" CE --> 5 OP 09 ----> "INVALID ADDRESS" CE --> 5	8/11/80	8/14/80	8/14/80
	***** NOTE: THIS IS THE WAY THESE OPS ARE			

FEATURE	FUNCTION	DATE FOUND	DATE FIXED	DATE CONFIRMED
	SUPPOSED TO WORK.			
SIGMA+/-	ESA - THE OLD BUG WHERE SIGMA +/- IS GIVING AN N=DER/OVERFLOW ERROR IS BACK. ALSO, THE HIERARCHY BIT IS LEFT ON.	8/8/80	8/13/80	8/14/80
INV COS	ESA - 2ND QUADRANT COS VALUES GIVE SECOND QUADRANT ANSWERS INSTEAD OF A NEGATIVE (4TH QUADRANT) ANSWER WHEN PUT THROUGH THE INV COS FUNCTION. ***** NOTE: THIS IS CORRECT INV COS ANSWERS SHOULD BE IN THE RANGE OF 0 TO PI INV SIN AND INV TAN ARE IN THE RANGE OF +PI/2 TO - PI/2.	8/14/80	8/14/80	8/14/80
R/S	LJF - R/S DOES NOT STOP PROGRAMS IN MAIN MEMORY.	8/14/80	8/14/80	8/14/80
ALARM, TIME	DC - WHEN THE ALARM IS SET TO 1:20 THE TIME IS NOT UPDATED BEFORE THE ALARM GOES OFF SO THE DISPLAY SHOWS 1:19:55 UNTIL THE ALARM FINISHES.	8/8/80	8/11/80	8/14/80
PROMPTING	AEM - THE MAXIMUM NUMBER OF PROGRAM STEPS IS BEING STORED IN A REGISTER WHICH IS USED BY OTHER OP CODES AND CAN BE WIPED OUT.	8/11/80	8/11/80	8/14/80
EQN	ACH - THE FOLLOWING SEQUENCE CAUSES THE CALCULATOR TO GET STUCK IN EQN MODE: LRN DFN A RTN LRN RST R/S AFTER A: (ENTER A) COMES GO INTO EQN.	8/11/80	8/14/80	8/14/80
ERRORS	LJF/AEM -- ERRORS GENERATED IN ONBOARD CROM WITH TRACE TURNED CAUSES REGISTERS TO GET WIPED OUT AND CROM FLAGS TO GET WIPED OUT.	8/14/80	8/15/80	8/15/80
SIGMA +, ERROR	SJB - WHEN AN UNDER/OVERFLOW OCCURS THE ERROR MESSAGE IS FOLLOWED BY AN INVALID ADDRESS. ***** NOTE: THIS COULD NOT BE REPEATED	8/15/80	8/15/80	8/15/80
CP	LJF - CP DOES NOT WORK IF IF THE PARTITION IS LESS	8/14/80	8/15/80	8/18/80

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THAN 480 STEPS.

ERROR MESSAGE	SJB - EOS OVERFLOW ERROR FOLLOWED BY PI X PI = PRT 1.2 SWAP 2.4 SIGMA + N=NDER/OVERFLOW	8/7/80	8/13/80	8/18/80
TRIGS, TRACE, INTEGER POWERS	SJB - TRIGS RAISED TO AN INTEGER POWER ARE NOT TRACING PROPERLY.	8/11/80	8/13/80	8/18/80
OP 48	HM - WITH NO PROGRAM STEPS OP 48 DOES NOT GIVE AN ERROR (IT APPEARS TO PERFORM THE OPERATION).	8/6/80	8/13/80	8/18/80
DAT, TIM	ESA - A RIGHT BRACKET APPEARS IN THE DATE AFTER THE YEAR. WITH THE 12 HOUR CLOCK ON THE RIGHT BRACKET APPEARS TO THE LEFT OF THE DAY (FRI DOES THIS).	8/8/80	8/15/80	8/18/80
LST	LJF - IF A LST PROGRAM IS IS ALLOWED TO RUN PAST THE END OF MEMORY THE USER CAN NOT GET BACK INTO LRN MODE.	8/14/80	8/15/80	8/18/80
EQN	SJB - IF AN ARITHMETIC ERROR OCCURS THE NEXT INSTRUCTION IS SKIPPED.	8/15/80	8/15/80	8/20/80
SIGMA +	SJB - AFTER A SIGMA + OVERFLOW ERROR OCCURS A BLANK LINE OR A T IS PRINTED.	8/15/80	8/18/80	8/20/80
IMP MULT, RCL	DC - IN IMPLIED MULTIPLY MODE THREE ATTEMPTS TO DO A RCL GIVES THE FOLLOWING RESULTS: 1). 1 RCL GIVES 0 IN THE DISPLAY 2). RCL GIVES R IN THE DISPLAY 3). RCL PUTS RCL IN THE DISPLAY	8/12/80	8/19/80	8/20/80
STO, IMP MULT	DC - IN IMPLIED MULTIPLY MODE STO IS IGNORED THE FIRST TIME BUT NOT THE SECOND: CMS 2 STO A 3 STO B RCL A = 0 RCL B =3 (BUT NOT ALWAYS).	8/12/80	8/19/80	8/20/80
OP 75	LJF - DOES NOT WORK ON SUPERCAM.	8/8/80	8/9/80	8/21/80

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FEATURE	FUNCTION	DATE FOUND	DATE FIXED	DATE CONFIRMED
PROMPTING, SGN	SJB - THE FOLLOWING SEQUENCE WHEN EXECUTED FROM CROM CAUSES A JUMP TO THE PROMPTING SEQUENCE WHICH WORKS OK UNTIL A NO IS ENTERED. AFTER NO IS ENTERED TIME IS DUMPED TO THE PRINTER OVER AND OVER. (FLAG D BOTH ON AND OFF) ALPHA ... ALPHA PRT OPO4 50 51 ... (TAKES LABEL 51) ... LBL 51 ALPHA... ALPHA PRT SGN (JUMPS TO PROMPTING) GTL X	8/4/80	8/18/80	8/25/80
OP 75	SJB - OP 75 USED INCORRECTLY FROM CROM (O OP 75) PRINTS A LINE GARBAGE FOLLOWED BY LABEL NOT FOUND.	8/11/80	8/11/80	8/25/80
IMPLIED MULTIPLY FACTORIAL	SJB - IMPLIED MULTIPLY 5 STO B 5!B = 30 INSTEAD OF 600.	8/22/80	8/26/80	8/26/80
TRACE	SJB - WHEN A UNARY FUNCTION POPS ANOTHER UNARY FUNCTION OUT OF THE STACK A LINE OF GARBAGE IS PRINTED.	8/25/80	8/26/80	8/26/80
LIVE ENTRY	SJB - THE FOLLOWING SEQUENCE DOES NOT PUT A LIVE ENTRY BOX WHERE IT SHOULD: (FLAG D SET) 3. UP ARROW 2. DOWN ARROW 9. 9. = <--- LIVE ENTRY BOX SHOULD BE HERE 81.	8/7/80	8/26/80	8/26/80
***** NOTE: THIS PROBLEM IS CAUSED BY THE EQUAL SIGN OVERWRITING THE LIVE ENTRY BOX - THERE IS NO PRACTICAL WAY TO FIX THIS PROBLEM.				
OP 29	JAF - OP 29 DOES NOT RETURN THE REGISTER WITH CHIP ORDER IN IT.	8/11/80	8/12/80	8/27/80
OP 28	JAF - THE KEYBOARD TEST IS WRONG.	8/11/80	8/14/80	8/27/80
OP 29	AEM - AT THE END OF OP 29 CMS DOES NOT CLEAR THE MEMORIES.	8/12/80	8/13/80	8/27/80
OP 41	TK/SJB - OP 41 IS GIVING INCONSISTENT RESULTS.	8/19/80	8/26/80	8/27/80
REPARTITIONING	LJF - WITH MANY CHIPS ATTACHED SO THAT THE	8/20/80	8/26/80	8/27/80

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NUMBER OF REGISTERS POSSIBLE
IS OVER 1000 THE REPARTIONING
OPS DO NOT CAUSE A DEFAULT
TO 1000 REGISTERS MAXIMUM
AS THEY SHOULD.

FEATURE	FUNCTION	DATE FOUND	DATE FIXED	DATE CONFIRMED
ALARM, OPS 59-60	SJB - WHEN GOING FROM 24 HOUR TIME TO 12 HOUR TIME WITH THE ALARM SET TO 0:00 HOURS IT IS CORRECTLY CONVERTED TO 12:00 HOWEVER, WHEN GOING BACK TO 24 HOUR TIME IT DOES NOT GO BACK TO 0:00.	8/19/80	8/27/80	8/28/80
TIME	LJF - 12 TO 1 PM TIMES ARE NOT CONVERTING CORRECTLY WHEN GOING FROM 12 HOUR TIME TO 24 HOUR TIME. (12:XX IS BEING CONVERTED TO 00:XX WHICH IS AM TIME NOT PM.)	8/27/80	8/27/80	8/28/80
ERRORS	SJB - WHEN AN INVALID REGISTER OR INVALID SEQUENCE ERROR OCCURS IT TRACES TWICE AND MAY TRACE INCORRECTLY THE SECOND TIME SINCE PART OF THE NUMBER IN THE DISPLAY MAY BE LOST.	8/25/80	8/29/80	8/29/80
ALARM	ESA - THE ALARM IS GOING OFF EVERY TWELVE HOURS IN 12 HOUR MODE REGARDLESS THE SETTING OF THE AM/PM FLAG.	8/28/80	8/29/80	8/29/80
DEFAULT PARTITIONING	LJF - DEFAULTING TO 1000 REGISTERS MAXIMUM IS DONE CORRECTLY INTERNALLY BUT IS DISPLAYED WRONG.	8/26/80	8/27/80	8/29/80
OP 75	LJF - ERASE MODULE STILL LEAVES THE PROGRAM COUNTER POINTING TO THE MODULE WHICH HAS JUST BEEN ERASED.	8/26/80	8/26/80	8/29/80
R/S	DC - WITH A NAMED CROM CONTAINING A PROGRAM WITHOUT AN END THE FOLLOWING EXECUTION OF THAT PROGRAM CAUSES A SIMULATOR LOCK UP (RST AND R/S WILL NOT STOP THE PROGRAM): PGM 7501 GTO 0000 R/S	8/5/80	9/2/80	9/2/80
ALARM	JAF - THE ALARM GOES OFF TWICE AT MIDNIGHT.	8/19/80	9/2/80	9/2/80

FEATURE

FUNCTION

DATE
FOUNDDATE
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CONFIRMED

FEATURE	FUNCTION	DATE FOUND	DATE FIXED	DATE CONFIRMED
- INV	LJF - INV IS LEFT IN THE DISPLAY OR IS NOT DISPLAYED AT ALL IN THE FOLLOWING 2 SEQUENCES: INV STF D NOP...NOP R/S LEAVES INV IN DISPLAY INV FIX NOP...NOP R/S LEAVES FOUR BLANKS AND FIX IN THE DISPLAY.	8/26/80	9/2/80	9/2/80
OP 64 , RUN MODE	ESA/LJF - OP 64 WHEN EXECUTED FROM RUN MODE GOES INTO SELF TEST (OP 29).	8/28/80	9/2/80	9/2/80
ALARM, PROMPTING	ESA - WHEN THE ALARM GOES OFF WHILE IN THE PROMPTING SEQUENCE, A LINE OF GARBAGE IS DISPLAYED.	8/29/80	9/2/80	9/2/80
ALARM, PROMPTING	ESA - IF THE ALARM GOES OFF WHILE THE USER IS IN THE PROMPTING SEQUENCE IT IS POSSIBLE TO GET OUT OF PROMPTING BY DOING A CE CLR.	8/28/80	9/2/80	9/2/80
***** NOTE: THIS IS NOT A BUG THE CE CLR ONLY CLEARS THE DISPLAY THE PROMPTING SEQUENCE IS STILL ACTIVE.				
SIGMA -	ESA - SIGMA - WILL NOT REMOVE THE LAST POINT ENTERED.	8/15/80	9/2/80	9/3/80
PROTECTED CROM	LJF - WHEN RUNNING FROM PROTECTED CROM WITH TRACE ON ONLY ONE BOX FLASHES INSTEAD OF THREE.	8/26/80	9/5/80	9/5/80
HEX FLAG UNNORMALIZED	AEM - WHEN IN UNNORMALIZED NUMBER MODE IF THE CALCULATOR IS TURNED OFF AND BACK ON A HEX FLAG IS LEFT ON.	9/3/80	9/5/80	9/5/80
MEMORY ARITHMETIC STD DIVIDE	BG - DIVIDING BY ZERO INTO A MEMORY CAUSES THE SIMULATOR TO LOCK UP.	9/4/80	9/5/80	9/5/80
PROTECTED CROM	LJF - INDIRECTS ARE TRACED IN PROTECTED CROMS. ALPHAS AND NUMBERS IN THE DISPLAY ARE ALSO TRACED.	8/26/80	9/2/80	9/5/80
TRIGS	ESA - LARGE ARGUMENTS INPUT TO THE TRIG FUNCTIONS CAUSE 0.EE00 TO BE DISPLAYED.	8/26/80	10/2/80	10/3/80

***** NOTE: THE TI-59 DOES THIS ALSO.

FEATURE	FUNCTION	DATE FOUND	DATE FIXED	DATE CONFIRMED
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HEX - DECIMAL ARITHMETIC	ESA - WHEN ARITHMETIC IS PERFORMED IN DECIMAL MODE ON NUMBERS THAT ARE STORED IN HEX MODE HEX DIGITS APPEAR IN THE RESULTS. THIS OCCURS WITH MEMORY ARITHMETIC TOO.	7/18/80	10/14/80	10/14/80
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***** NOTE: THIS BUG WAS NOT FIXED. ARITHMETIC IS USED THIS WAY IN THE PROGRAM DEVELOPMENT LIBRARY AND CORRECTING THIS IDIOSYNCRACY WOULD MAKE THE PROGRAM DEVELOPMENT LIBRARY SLOWER.

()-1, ()N, P->R	JAF - ALL OF THESE FUNCTIONS WILL EXECUTE IN HEX MODE.	8/4/80	10/14/80	10/14/80
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***** NOTE: THIS BUG WAS NOT FIXED FOR THE SAME REASON AS THE HEX-DECIMAL ARITHMETIC BUG.

EE	SSM - SIN 1.EE-99 = 1.EE-00	8/6/80	10/3/80	11/3/80
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GRAD MODE	AEM - IN GRAD MODE SIN IS ALWAYS 0. AND COS IS ALWAYS -1. REGARDLESS OF INPUT ARGUMENT.	9/15/80	10/3/80	11/3/80
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PROMPTING SEQ	AEM - IF THERE IS NO MODULE IN THE MASTER SLOT AND ENTER MODULE IS ANSWERED WITH CONTINUE, THE HIERARCHY FLAG IS LEFT ON.	9/18/80	10/3/80	11/3/80
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TRACE, ()N	ACH/AEM - () N IND RCL A DOES NOT TRACE THE () N OR THE ANSWER.	9/18/80	10/3/80	11/3/80
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GTO LBL	AEM/LJF- FROM THE KEYBOARD PUTS A NEGATIVE ZERO IN THE DISPLAY AND DOESN'T GO ANYWHERE. (THIS WAS BROKEN IN THE PROCESS OF SQUISHING CODE.)	10/3/80	10/3/80	11/3/80
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INTERNAL SBR OVERFLOW	BR/LJF - SUBROUTINE STACK OVERFLOW OCCURS WHEN AN IF NOT = FOLLOWS A LARGE NUMBER OF ENTRIES TO EOS.	10/3/80	10/7/80	11/3/80
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FIX, DISPLAY	LJF - THE FOLLOWING SEQUENCE CAUSES -0.00 TO BE DISPLAYED:	8/26/80	10/17/80	11/3/80
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FIX 2

FEATURE	FUNCTION	DATE FOUND	DATE FIXED	DATE CONFIRMED
	SIN 30 = INV SIN = - 30 = -0.00 (ANSWER IN DISPLAY) INV FIX DISPLAYS -1. -11			
OP 35	AEM - WITH A HORIZONTAL OR VERTICAL LINE GIVES AN ERROR MESSAGE WHEN IT SHOULD NOT.	10/24/80	10/24/80	11/3/80
LST, PAU TIMING	LJF - IF A LST IS DONE WHEN PAU = 0 AND THE PRINTER IS NOT ATTACHED, THE CALCULATOR TIMES OUT.	10/28/80	10/28/80	11/3/80
IMPLIED MULT	HM - CHANGING THE ORDER OF OPERATIONS IN IMPLIED MULTIPLY MAY CHANGE THE ANSWER: A 30 B = 120 A B 30 = 180 30 A B = 180	11/3/80	11/3/80	11/3/80
OP 30	ESA - OP 01 FOLLOWED BY OP 30 USES PAU TIMING = 1.5 UNTIL IT PRINTS THE CURRENT VALUE OF PAU TIMING = 0.0 AND CHANGES THE VALUE INTERNALLY.	11/3/80	11/3/80	11/5/80
OP 30	AEM - OP 01 FOLLOWED BY OP 30 INDICATES THAT IMPLIED MULTIPLY IS ON WHEN IT IS OFF.	11/3/80	11/3/80	11/5/80
RUN	LJF - IN RUN MODE IF AN ERROR OCCURS WITH ONLY A R/S FOLLOWING THE ERROR GENERATING STATEMENT NO MESSAGE IS GENERATED AND THE DISPLAY DOES NOT FLASH UNTIL A KEY IS PUSHED. EXAMPLE : LBL B 9 EE 99 + = R/S	11/3/80	11/5/80	11/5/80
PGM, PGM	HM - THE SEQUENCE PGM PGM CAUSES THE MESSAGE "INVALID ADDRESS" TO BE DISPLAYED. THE ONLY WAY OUT OF THIS	11/5/80	11/6/80	11/6/80
TIM, PROMPT	JGJ - AN INTERNAL SBR OVERFLOW CAN OCCUR IF TIM IS REPEATEDLY PRESSED.	11/5/80	11/6/80	11/6/80

FEATURE

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TIM, OP 59

ESA - WHEN CONVERTING TO
12 HOUR TIME FROM 24 HOUR
TIME THE ALARM TIME IS NOT
CONVERTED.

11/6/80

11/7/80

11/7/80

LRN, BST

SJB - IN LRN MODE WITH
WITH TRACE ON BST CAN BE
ENTERED.

8/12/80

11/12/80

11/12/80

***** NOTE: THIS BUG IS VERY DIFFICULT TO DUPLICATE
AND USUALLY OCCURS JUST BEFORE THE SIMULATOR
HAS A HARDWARE FAILURE.

ERROR MESSAGE,

JAF - THE FOLLOWING
SEQUENCE GIVES INVALID REGISTER:
OP 16
A6 (OR ANY TWO DIGIT NUMBER)
OP 48
OP 01 GIVES INVALID REGISTER.

8/12/80

11/12/80

11/12/80

IF OP 01 IS PRECEDED BY A CE/CLR
THEN IT WORKS OK.

***** NOTE: THIS BUG IS VERY DIFFICULT TO DUPLICATE

TIME, OFF

ESA - FIRST SET TIME TO
11:59 PM AND THEN SET THE
ALARM TO GO OFF AT 12:00 AM.
TURN THE CALCULATOR OFF AFTER
DISPLAYING 11:59:55 PM.
AFTER THE ALARM GOES OFF THE
DISPLAY ALTERNATELY FLASHES
TIM AND THEN THE CURRENT TIME
FROM 12:00:06 UNTIL 12:00:36
EVERY TWO SECONDS (16 TIMES)

11/3/80

11/7/80

11/12/80

EQN, TRACE

LJF - EQN TRACES IN RUN
MODE EVEN WHEN IT SHOULD
NOT.

10/28/80

10/28/80

11/14/80

INV FLAG

DO'G - THE I FLAG COMES ON
IN THE DISPLAY WHILE RUNNING
A PROGRAM AND NEVER GOES OFF
WHILE THE PROGRAM IS RUNNING.

11/7/80

11/11/80

11/13/80

STATISTICS

ESA - REMOVING A NUMBER
WITH SIGMA- CAN CAUSE
THE CORRELATION COEFFICIENT
TO BE > 1.0 (OP 33)
ALSO, THE STANDARD DEVIATIONS
MAY NOT BE EXACT.

11/11/80

11/12/80

11/13/80

+/- AND UNARY
MINUS

ESA/AEM - INV +/- MERGES
TO UNARY MINUS AND INV UNARY

11/11/80

11/13/80

11/14/80

FEATURE

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MINUS MERGES TO +/- IN LRN
MODE.

UNARY MINUS	ESA - THE UNARY MINUS MAY APPEAR IN THE MIDDLE OF THE DISPLAY DEPENDING ON THE PREVIOUS ENTRY: -1. UNARY MINUS	11/11/80	11/13/80	11/14/80
INV LST	AEM - IF INV LST IS EXECUTED WITH A NUMBER < 1.0 IN THE DISPLAY THEN INV LIST IS PERFORMED USING THE FIRST FEW DIGITS OF THE FRACTION.	11/12/80	11/12/80	11/14/80
ALPHA, CUE	SJB - ALPHA AND CUES DO NOT TRACE IN UNNORMALIZED NUMBER MODE.	8/15/80	11/20/80	11/20/80

*****NOTE: THIS BUG OCCURS ONLY WITH SPECIAL CASES OF
ALPHA AND CUES AND WAS NOT FIXED DUE TO
SPACE LIMITATIONS AND DUE TO THE FACT
THAT IT IS NOT USEFUL TO TRACE ALPHA AND
CUES IN UNNORMALIZED NUMBER MODE.

EQN, RUN, TRACE	AEM - IF THERE IS A BUG AT THE END OF OF EQN AND EQN IS EXECUTED FROM RUN MODE WITH TRACE ON THE THE 88 GOES BANANAS (IT GETS STUCK IN A LOOP).	11/10/80	11/17/80	11/20/80
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PRINTER ON	HM - WHEN THE CALCULATOR IS TURNED ON TWICE THE "PRINTER ON" MESSAGE IS DISPLAYED AFTER THE "MAY I HELP YOU?" MESSAGE. THE USER MAY NOT REALIZE THAT THE CALCULATOR IS IN THE PROMPTING SEQUENCE.	11/17/80	11/17/80	11/20/80
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R/S, CRAM/CROM	HM - IF A CRAM/CROM PROGRAM IS RUNNING FROM A MAIN MEMORY PROGRAM, R/S WON'T HALT MAIN MEMORY PROGRAM.	11/20/80	12/1/80	12/10/80
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UNNORMALIZED # ALPHA/BLOCK	SJB/LJF - THE ALPHA BLOCK COMMAND DOES NOT WORK PROPERLY IN UNNORMALIZED # MODE.	8/10/80	12/08/80	12/10/80
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2ND, CROM, DISPLAY	LJF - IF THE SECOND KEY IS PUSHED WHILE THE CROM IS USING THE DISPLAY REGISTER THE NEW DISPLAY MAY CONTAIN GARBAGE.	12/1/80	12/8/80	12/10/80
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DFN RCL A	LJF - DFN RCL A FROM THE	12/17/80	12/19/80	12/19/80
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FEATURE	FUNCTION	DATE FOUND	DATE FIXED	DATE CONFIRMED
KEYBOARD	KEYBOARD CAUSES TRASH TO PRINT IN THE DISPLAY PRIOR TO THE ERROR MESSAGE.			
TRACE, OPS	LJF - OPS SOMETIMES TRACE TWICE.	11/20/80	12/16/80	12/23/80
TRACE, STO, RCL	LJF - WHEN RCL FOLLOWS A STO IT DOES NOT TRACE PROPERLY. RUN MODE	12/10/80	12/16/80	12/23/80
ALPHA, TRACE	LJF - ALPHA'S THAT GET SPLIT WITH COMMANDS LIKE STF, SBR, RTN LOSE THE FIRST HALF OF THE ALPHA WHEN THEY ARE BEING TRACED.	12/16/80	12/17/80	12/23/80
TRACE, SIGMA -	AEM - TRACE ON CAUSES AN INV TO OCCUR IN THE DISPLAY AND SIGMA MINUS WILL NOT REMOVE THE LAST POINT ENTERED.	12/23/80	1/13/80	1/21/81
SET ALARM, TRACE	LJF - SETTING THE ALARM IN RUN MODE WITH TRACE ON WIPES OUT THE 'P' INDICATING PM.	1/08/81	1/13/81	1/22/81
SET ALARM, PROMPT	AEM - THE PROMPTING SEQUENCE ASKS THE USER IF HE WANTS TO TURN THE ALARM ON EVEN IF THE ALARM HAS NOT BEEN SET. NOTE: THIS QUESTION IS NOW CONSIDERED CORRECT.	1/08/81	1/13/81	1/21/81
LOW BATTERY	LJF - LOW BATTERY NO LONGER COMES ON.	1/14/81	1/19/81	1/22/81
DATE	LJF - THE DECIMAL POINT IN THE DATE COMES OUT IN THE WRONG PLACE. IT IS CURRENTLY COMING OUT IN THE MIDDLE OF THE YEAR INSTEAD OF TO THE LEFT OF THE YEAR.	1/15/81	1/19/81	1/21/81
INV INDICATOR	LJF - THE INVERSE INDICATOR DOES NOT COME ON. NOTE: THE INVERSE INDICATOR HAS BEEN CHANGED TO AN EQN INDICATOR.	1/07/81	1/27/81	2/17/81
OP 30, PAU TIMING	ESA - WHEN EXECUTING OP 30 PAUSE TIMING GETS SET TO WHATEVER WAS IN THE DISPLAY PRIOR TO OP 30 EXECUTION.	1/22/81	1/27/81	2/17/81

FEATURE

FUNCTION

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FOUNDDATE
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FEATURE	FUNCTION	DATE FOUND	DATE FIXED	DATE CONFIRMED
2ND INDICATOR	LJF - THE 2ND INDICATOR DOES NOT ALWAYS COME ON IN THE DISPLAY.	1/23/81	1/27/81	2/17/81
PRINTER ON	LJF - IF KEYS ARE HIT WHILE THE PRINTER IS SENDING THE PRINTER ON MESSAGE EXTRA ALPHA CHARACTERS MAY BE ENTERED.	11/20/80	2/6/81	2/18/81
PROMPTING SEQ	AEM - THE HIERARCHY FLAG CAN BE LEFT ON IN THE PROMPTING SEQUENCE.	2/24/81	2/24/81	2/25/81
LIST REGISTERS	LJF - LIST REGISTERS DOES NOT HAVE ENOUGH COLUMNS AND MAY CHOP OFF THE SIGN OF NEGATIVE NUMBERS.	2/20/81	2/23/81	2/26/81
SUNDAY	ACH - WHEN SETTING THE DATE SUNDAY CAN NOT BE SET THE FIRST TIME THROUGH THE PROMPTING SEQUENCE.	2/23/81	2/23/81	2/26/81
DATE/FEB 31	SCR - IF FEB 31ST IS ENTERED IN SET DATE THE CALCULATOR DOES NOT ROLL OVER TO MARCH 1ST AT MIDNIGHT.	2/24/81	2/25/81	2/25/81
GBR	LJF - GBR IN THE LAST MEMORY LOCATION DOES NOT WORK.	2/24/81	2/25/81	2/26/81
I/O TO 88	ACH - THERE IS A SPEED PROBLEM WITH I/O COMING IN TO THE 88.	2/24/81	2/27/81	2/27/81
DFN	LJF - ATTEMPTING TO EXECUTE A DEFINE FROM THE KEYBOARD CAUSES A 27 TO BE PLACED IN THE SWAP REGISTER.	2/25/81	2/26/81	3/4/81
RF, EQN	LJF - RESET FLAG CANNOT BE KEYED INTO EQN.	2/26/81	2/27/81	3/4/81
R/S, CUE	LJF - THE CALCULATOR LOCKS UP WHEN R/S IS PRESSED AFTER THE CALCULATOR PAUSES FOR RESPONSE TO A CUE.	2/27/81	2/27/81	3/4/81
UNNORMALIZED #'S	LJF - EXECUTING ONBOARD CROM CODE WHILE IN UNNORMALIZED # MODE MAY CAUSE THE VALUE IN THE DISPLAY TO BE CHANGED.	2/27/81	3/2/81	3/5/81

FEATURE	FUNCTION	DATE FOUND	DATE FIXED	DATE CONFIRMED
PROMPTING SEQUENCE	AEM - THE HIERARCHY FLAG GETS TURNED OFF TOO SOON IN THE PROMPTING SEQUENCE.	3/2/81	3/2/81	3/5/81
OP 16	SJB - THE WRONG FLAG IS CLEARED BY OP 16.	3/2/81	3/4/81	3/5/81
PROMPTING	LJF - WHEN MAY I HELP YOU? IS PUT INTO THE DISPLAY GARBAGE MAY APPEAR INTERNALLY.	3/3/81	3/4/81	3/5/81
OP 37	BA - AFTER CLEAR STATISTICS IS PERFORMED THE LAST VALUE OF N IS STILL IN THE DISPLAY.	3/3/81	3/4/81	3/5/81
DEGREE SIGN	LJF - THE DEGREE SIGN IS NOT IN THE CHARACTER SET.	3/4/81	3/4/81	3/5/81
HEX MODE, ()N	LJF - THE ()N DOESN'T TRACE BECAUSE IT IS A TRAILER BUT IT IS STILL ACTIVE AND IT WILL CAUSE THE OPERATION TO BE PERFORMED IF A NUMBER IS PRESSED.	2/27/81	3/4/81	3/4/81
EVAL, TRACE	BA - EVAL EXECUTED OUTSIDE OF EQN TRACES BUT EXECUTED INSIDE OF EQN DOES NOT.	2/27/81	3/4/81	3/4/81
LST PGM, R/S	LJF - R/S WILL NOT HALT IN THE MIDDLE OF A FIELD.	3/2/81	3/4/81	3/5/81
INV CMS, EQN	LJF - INV CMS IN EQN SKIPS ONE STEP.	3/2/81	3/4/81	3/4/81
OP 12	LJF - SHOW 13 DIGITS FOLLOWED BY OP 9 CAUSES THE CURSOR TO BE IN THE WRONG POSITION IN THE DISPLAY.	2/26/81	3/2/81	3/4/81
UNNORMALIZED #'S OP 13	LJF - OP 13 ROUNDS UNNORMALIZED NUMBERS IMPROPERLY.	2/27/81	3/2/81	3/11/81
TRACE	LJF - IN TRACE MODE HARD-WIRED FUNCTIONS SHOULD FLASH (FROM RUN MODE) BUT USER PGM SHOULD NOT FLASH.	3/2/81	3/2/81	3/11/81
OP 13	LJF - OP 13 IS NOT WORKING.	3/4/81	3/6/81	3/11/81
SOFT PARTITION	LJF - IN SOFT PARTITION A PROGRAM WILL NOT STOP PROPERLY IF IT RUNS PAST THE END OF MEMORY.	3/4/81	3/10/81	3/13/81

FEATURE	FUNCTION	DATE FOUND	DATE FIXED	DATE CONFIRMED
NAME OR ERASE CRAM	BG - NAME OR ERASE CRAM WITH PROGRAM STEPS = 0 DOES NOT GIVE THE PROPER NUMBER OF REGISTERS AFTER THE REPARTITION.	3/5/81	3/10/81	3/13/81
PROMPTING SEQUENCE	LJF - 0 MONTHS AND 0 DAYS MAY BE ENTERED IN THE PROMPTING SEQUENCE.	3/6/81	3/10/81	3/13/81
LBL SEARCH, 2ND	LJF - 2ND KEY PRESSED DURING A LABEL SEARCH FOR A NON-EXISTING LABEL CAUSES THE CALCULATOR TO TIME OUT AND TURN OFF.	3/6/81	3/10/81	3/13/81
TRACE, INV SBR	LJF - INV SBR IS NOT TRACED IN THE TRACE PRINT OUT WHEN EXECUTED FROM THE KEYBOARD.	3/9/81	3/10/81	3/13/81
PRMPT SEQUENCE	LJF - A USER REGISTER IS USED WHILE SETTING THE DATE.	3/10/81	3/10/81	3/13/81
OP 8	LJF - ROW 8 IS LABELED AS ROW 7.	3/10/81	3/10/81	3/13/81
IND	LJF - FRACTIONAL VALUES ARE INTERPRETED INCORRECTLY.	3/10/81	3/13/81	3/13/81
NAMED CRAM	LJF - IF THE LAST PROGRAM USES UP ALL STEPS IN A CRAM AND THE PROGRAM ASKS FOR A LABEL THAT IS NOT THERE, THE LABEL SEARCH DOES NOT GIVE AN ERROR AND IT LEAVES TRACE IN THE DISPLAY.	3/11/81	3/13/81	3/13/81
MIDNIGHT/ALARM	ESA - WHEN THE ALARM GOES OFF AT MIDNIGHT WITH THE CALCULATOR TURNED OFF THE THE DISPLAY TURNS ON TO PUT THE NEW TIME UP AND THEN TURNS BACK OFF.	2/25/81	3/6/81	3/16/81
PROMPTING SEQUENCE	LJF - A 19 GETS IN THE DISPLAY WHEN THE PROMPTING SEQUENCE IS USED AFTER THE SELECT MODULE.	3/6/81	3/17/81	3/18/81
GFR, KEYBOARD	LJF - IF GFR IS USED TO GO PAST THE END OF MEMORY FROM THE KEYBOARD IT DOESN'T DETECT AN ERROR.	3/17/81	3/17/81	3/18/81
CASSETTE OPS	AEM - CASSETTE OPS ALLOW	3/18/81	3/18/81	

FEATURE	FUNCTION	DATE FOUND	DATE FIXED	DATE CONFIRMED
	A 4 DIGIT ID INSTEAD OF A 3 DIGIT ID (MAXIMUM).			
ALPHA, DATE/TIME CURSOR	LJF - THE CURSOR APPEARS IN RANDOM POSITIONS WHEN ALPHA IS ENTERED FOLLOWING TIME OR DATE, OP 9.	3/16/81	3/19/81	
TRACE, EVAL, ERRORS	LJF - EVAL AND ERRORS DO NOT TRACE WHEN THEY SHOULD. (PROTECTED CROMS)	11/20/80	12/1/80	
LIVE ENTRY	LJF - LIVE ENTRY MAY APPEAR AFTER RESULTS (PROTECTED CROMS).	3/3/81	3/24/81	
ALPHA, BLOCKS	LJF - IN ALPHA MODE WHEN BLOCKS ARE USED IN ALPHA STRINGS WHICH ARE CONTINUED THE BLOCK POINTER IS RESET.	3/17/81	3/24/81	
SET ALARM TIME, RUN MODE	LJF - THE EXPONENT OF THE ALARM TIME IS NOT STORED.	3/23/81	3/24/81	
ALPHA, UNNORMALIZED NUMBERS, BLOCKS	LJF - IN UNNORMALIZED MODE WITH STRINGS THAT ARE CONTINUED THE BLOCK POINTER IS RESET.	3/20/81	3/25/81	
ALPHA, NO TRACE	LJF - WHEN RUNNING WITHOUT TRACE THINGS THAT ARE SUPPOSED TO KILL ALPHA DON'T.	3/20/81	3/25/81	
	NOTE: THERE ARE SEVERAL CASES WHICH MAY WORK DIFFERENTLY WITH TRACE AND WITHOUT TRACE INCLUDING STORES.			
LRN FROM RUN MODE WITH TRACE	LJF - WHEN A PROGRAM GOES INTO LRN FROM RUN MODE WITH TRACE ON THE 3 BLOCKS CONTINUE TO FLASH AS THOUGH THE PROGRAM WERE STILL RUNNING EVEN THOUGH IT IS NOT.	3/24/81	3/25/81	
CASS OPS, RUN	BG - WHILE SEARCHING FOR THE CASSETTE ID, THE CASS OP FINDS THE WRONG ID FIRST AND DISPLAYS "INSTALL CASSETTE".	3/24/81	3/31/81	
LOW BATTERY	LJF - THE CORRECT LOW BATTERY MESSAGE IS NOT DISPLAYED IF IT TRIES TO COME OUT IN THE MIDDLE OF A HARDWIRED FUNCTION.	3/25/81	3/31/81	
UPLOAD	AEM - UPLOAD UPLOADS 8 STEPS TOO MANY.	3/25/81	3/31/81	

FEATURE

FUNCTION

DATE
FOUNDDATE
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FEATURE	FUNCTION	DATE FOUND	DATE FIXED	DATE CONFIRMED
-OP 50	BG - PS:XXXX SHOWS IN OP 50 IN RUN MODE.	3/31/81	3/31/81	
ERROR, CUE	LJF - IF THERE IS AN ERROR AND THE USER PRESSES AN ANSWER TO A CUE, THE CUE DOES NOT TRACE IN THE DISPLAY.	3/24/81	4/1/81	
2ND, FLASHING DISP	LJF - IF THE DISPLAY IS FLASHING AND THE 2ND KEY IS PUSHED, THE 2ND INDICATOR DOES NOT COME ON.	3/25/81	4/1/81	
ERASE CROM	AEM/LJF - IF THE USER ATTEMPTS TO ERASE A CROM A BIT GETS SET INDICATING THAT THERE IS MORE MEMORY.	3/26/81	4/3/81	
CONVERSION OPS, HEX & UNNORM.	AEM - IF CALCULATOR IS IN HEX OR UNNORM AND ILLEGAL OP IS DONE, WRONG ERROR MESSAGE IS GIVEN.	4/3/81	4/3/81	
88-88 COMMUNICATION	ACH - 88 TO 88 COMMUNICATION IS NOT WORKING PROPERLY LINES OF GARBAGE ARE RECEIVED OCCASIONALLY.	11/20/80		
GTO	LJF - GTO 9999 (OR ANY OTHER INVALID NUMBER WILL CAUSE THE LAST DIGIT TO BE PICKED UP AS A NUMERIC ENTRY.	2/24/81		
TRACE ON, PRINTER OFF	LJF - WITH TRACE ON AND THE PRINTER OFF WHEN A PROGRAM IS EXECUTED BY PRESSING A', THE A' DOES NOT COME UP IN THE DISPLAY.	2/27/81		
ERRONEOUS ERROR MESSAGE	LJF - IF ALL STEPS ARE USED IN A CROM ; WHEN THE PROGRAM IS EXECUTED, FOLLOWED BY THE OP CODE TO SHOW CROM STATUS AN ERRONEOUS ERROR MESSAGE RESULTS.	3/31/81		
PROMPTING SEQUENCE	GM - RCD SHOWS IN THE DISPLAY IF A MODULE IS SELECTED USING THE PROMPTING SEQUENCE.	3/31/81		
TRACE, INV EE	LF - INV EE TRACES IN HEX MODE.	4/3/81		

FEATURE

FUNCTION

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LJF - POINTING TO CROM
OR CRAM, QTO STARTS TO
EXECUTE.

4/3/81

373 BUGS FOUND TO DATE
366 BUGS FIXED TO DATE
349 BUG REPAIRS CONFIRMED TO DATE

FEATURE PROBLEM DATE FOUND DATE FIXED DATE CONFIRMED

DMS INV DMS POSSIBLE ACCURACY PROBLEM 4/15/80 6/20/80 6/20/80
 5.25 DMS GIVES 5.41666667
 INV DMS GIVES 5.246
 THE 59 DOES THIS RIGHT
 ** NOTE: THIS TURNED OUT TO BE CAUSED BY A BUG
 IN THE INTEGER FUNCTION WITH CERTAIN
 VALUES. DMS AND INV DMS ARE OK.

INV INT (FRC) POSSIBLE ROUND OFF PROBLEM 4/15/80 4/17/80 4/17/80
 5.999 999 999 999 INV INT=1.
 NOTE: THE TI 59 CAN NOT HANDLE AS MANY DIGITS
 IN THE DISPLAY AS THE TI-X BUT IT WILL DO THE
 SAME THING IF GIVEN AN INTERNAL VALUE WITH
 MORE THAN 10 DIGITS TO THE RIGHT OF THE DECIMAL.

D->R, D->G POSSIBLE ACCURACY PROBLEM 4/25/80 8/26/80 8/26/80
 COS(90->R)
 COS(90->G)
 CONVERTING 90 DEG TO RAD OR
 GRAD AND THEN USING COS
 GIVES:

COS(90->R) = 8.967502 -13
 COS(PI/2) = -1.033235 -13
 COS(270->R) = -1.691224 -12
 COS(PI*1.5) = 3.089233 -13

COS(90->G) = 1.570796 -13
 COS(270->G) = -1.570796 -12

90 DEG->R = 1.570796326794
 PI/2 = 1.570796326794

270 D->R = 4.712 388 980 38 3
 PI * 1.5 = 4.712 388 980 38 5

* NOTE: THESE COS(60 DEG) = .499 999 999 999 9
 2 BUGS ARE STILL COS(60 DEG -> 66.67 GRAD) = .500 000 000 000 1
 THERE.

LOG 1 LOG 1 = 4.342 945 X 10**16 4/29/80 7/29/80 7/29/80
 LN 1 LN 1 = 1 X 10** -15 4/29/80 7/29/80 7/29/80

5 BUGS FOUND TO DATE
 5 BUGS FIXED TO DATE
 5 BUG REPAIRS CONFIRMED TO DATE