

9S05 HA AND 9S05 LA

CORE COMPLEMENT CHECKERBOARD,  
ALL ZEROS, AND ALL ONES TEST  
FOR A 738 CORE STORAGE

A. PURPOSE

THIS TEST IS TO BE USED WITH A 738 CORE STORAGE. ONE HALF OF THE TEST LOADS THE PROGRAM INTO THE FIRST 2000 LOCATIONS IN STORAGE AND TESTS THE REST OF STORAGE. THE SECOND HALF OF THE TEST LOADS THE PROGRAM INTO THE LAST 2000 LOCATIONS IN STORAGE AND TESTS THE FIRST 76000 LOCATIONS OF STORAGE.

THIS PROGRAM GIVES A COMPLEMENT CHECKERBOARD TEST, THEN AN ALL ZEROS TEST, AND THE AN ALL ONES TEST.

THE COMPLEMENT CHECKERBOARD TESTS STORAGE BY PUTTING THE PATTERN BELOW PHYSICALLY IN STORAGE.

00 11 00 11  
00 11 00 11  
11 00 11 00  
11 00 11 00  
00 11 00 11

AS THE ACTUAL PROGRAM LOCATIONS DIFFER FROM THE PHYSICAL LOCATIONS, A MEMORY PRINTOUT WILL SHOW EVERY TWO ADDRESSES ALTERNATING IN EACH SECTION CONSISTING OF 2000 ADDRESSES. AT THE END OF EACH SECTION THE PATTERN WILL REVERSE FOR THE NEXT SECTION UNTIL A BLOCK -MADE UP OF FOUR SECTIONS- IS FILLED. EACH TIME A BLOCK OF ADDRESSES -10,000 ADDRESSES- IF FILLED TH PATTERN IS NOT REVERSED WHEN ENTERING INTO THE NEXT BLOCK. EIGHT BLOCS MAKE UP THE TOTAL STORAGE. THIS TEST IS TO CAUSE A MAXIMUM AMOUNT OF NOISE TO APPEAR ON THE SENSE WINDINGS.

0 AND 1 2 AND 3 4 AND 5 6 AND 7  
. 0S . 1S . 0S . 1S  
.  
.  
2000+2001-2002+2003-2004+2005-2006+2007  
.  
.  
. 1S . 0S . 1S . 0S  
.  
.  
4000  
.  
.

. 0S 1S  
.

THE ALL ZEROS PART OF THE PROGRAM FILLS MEMORY WITH ZEROS AND THE CHECKS TO SEE IF EACH LOCATIONS CONTAINS ZERO.

THE ALL ONES PART OF THE PROGRAM FILLS MEMORY WITH ONES AND THE CHECKS TO SEE IF EACH LOCATION CONTAINS ONES.

THE 3 ROUTINES ARE FLEXIBLE SO THAT DIFFERENT PATTERNS CAN BE CHECKED IN MEMORY. BY CHANGING SYMBOLIC LOCATIONS TEST 1, TEST 2, ZEROS, ZEROS+1, ONES AND ONES+1, A VARIETY OF PATTERNS CAN BE TESTED. IF A WORST PATTERN IS FOUND PLEASE NOTIFY THE DPM DIAGNOSTIC ENGINEERING GROUP AS TO THE TYPE OF PATTERN THAT WAS USED.

B. AREA OF MACHINE REQUIRED

1. UNITS CARD READER  
MAIN FRAME WITH A 738 CORE STORAGE  
PRINTER-IF AN ERROR PRINTOUT IS DESIRED.

2. STORAGE LOCATIONS

FIRST HALF OF 9S05	00000 TO 01623
AREA TESTED	02000 TO 77777
SECOND HALF OF 9S05	76100 TO 77723
AREA TESTED	00000 TO 76000

C. PROGRAM CONTROL

1. DECK H00 9LD02 HIGH BINARY LOADER  
H01 - H42 9S05H DIAGNOSTIC -FIRST HALF OF TEST-  
H43 TRANSFER CARD -TO 0-  
L00 9LD01 LOW BINARY LOADER  
L01 - L42 9S05L DIAGNOSTIC -SECOND HALF OF TEST-  
L43 TRANSFER CARD -TO 76100-  
L44 - L45 BLANK CARDS

2. SENSE SWITCH CONTROL

A. SWITCH 1 UP - CONTINUE TEST  
1 DN - LOOP IN ROUTINE THAT IS BEING EXECUTED

B. SWITCH 2 UP - INDICATE ERROR, TEST SENSE SWITCH 3.  
2 DN - BYPASS ERROR

C. SWITCH 3 UP - PRINT ERROR IF SSW 2 IS UP  
3 DN - HALT ON ERROR IF SSW 2 IS UP

D. SWITCH 6 UP - SELECT CARD READER AT COMPLETION OF TEST.  
6 DN - REPEAT TEST

3. SENSE LIGHT CONTROL

A. LIGHT	1 ON	LOW END OF MEMORY IS BEING TEST.
B. LIGHTS	2 + 3 OFF	COMPLEMENT CHECKERBOARD ROUTINE IS BEING EXECUTED.
C. LIGHT	2 ON, 3 OFF	ALL ZEROS ROUTINE IS BEING EXECUTED
D. LIGHT	2 OFF, 3 ON	ALL ONES ROUTINE IS BEING EXECUTED.
E. LIGHT	4 ON	HIGH END OF MEMORY IS BEING TESTED.

D. ERROR STOPS

1ST HALF OF TEST  
324

2ND HALF OF TEST  
76423

ERROR WORD IS IN ACCUMULATOR  
ERROR ADDRESS IS IN MQ ADDRESS  
MQ DECREMENT CONTAINS ZERO IF AN INITIAL ERROR.  
MQ DECREMENT CONTAINS 7 IF A COMPLEMENT ERROR.

PRESS START BUTTON TO RETURN TO PROGRAM.  
THE ERROR IS CORRECTED AND THE TEST CONTINUES.

E. EXAMPLE OF PRINTOUT

EXAMPLE 1

ERROR ADDRESS 74555 ERROR WORD 000 010 000 000 000 000 000 000 000 000 000 000 000  
INITIAL PATTERN TEST WORD 000 000 000 000 000 000 000 000 000 000 000 000 000  
LOCATION OF SWITCH CORES- Y3 MATRIX ROW 3, COL 1- X2 MATRIX ROW 6, COL 3

EXAMPLE 2

ERROR ADDRESS 34555 ERROR WORD 111 111 101 111 111 111 111 111 111 111 111 111 11  
COMPLEMENT PATTERN TEST WORD 111 111 111 111 111 111 111 111 111 111 111 111 11  
LOCATION OF SWITCH CORES- Y1 MATRIX ROW 6, COL 1- X2 MATRIX ROW 6, COL 3

THE PRINTOUT IS SELF EXPLANATORY. THE FIRST LINE CONTAINS THE ADDRESS OF THE WORD THAT FAILED AND THE WORD AT THAT LOCATION.

THE SECOND LINE CONTAINS THE TYPE OF ERROR, INITIAL OR COMPLEMENT, AND THE CORRECT WORD.

THE THIRD LINE CONTAINS THE LOCATION OF THE SWITCH CORES THAT SELECT THE ADDRESS IN ERROR.

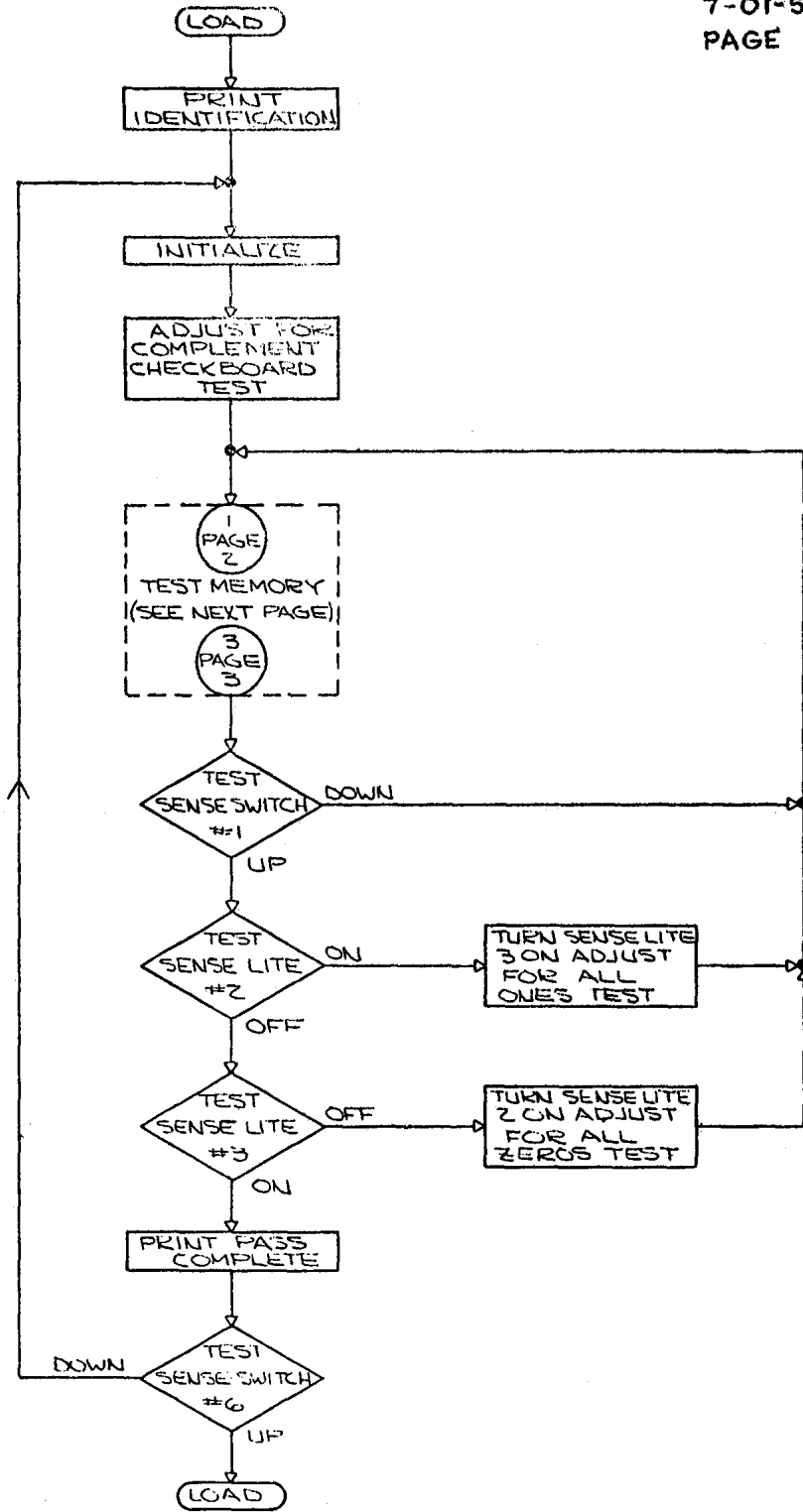
IN EXAMPLE 1 THE WORD AT ADDRESS 74555 PICKED UP A BIT IN POSITION 4 ON THE INITIAL TEST. THIS ADDRESS IS SELECTED BY THE Y3 AND X2 SWITCH CORE MATRIX. THE 2 SWITCH CORES ARE PHYSICALLY LOCATED AT -1.- THE 3RD ROW AND THE 1ST COLUMN OF THE Y3 MATRIX, AND -2- THE 6TH ROW AND THE 3RD COLUMN OF THE X2 MATRIX.

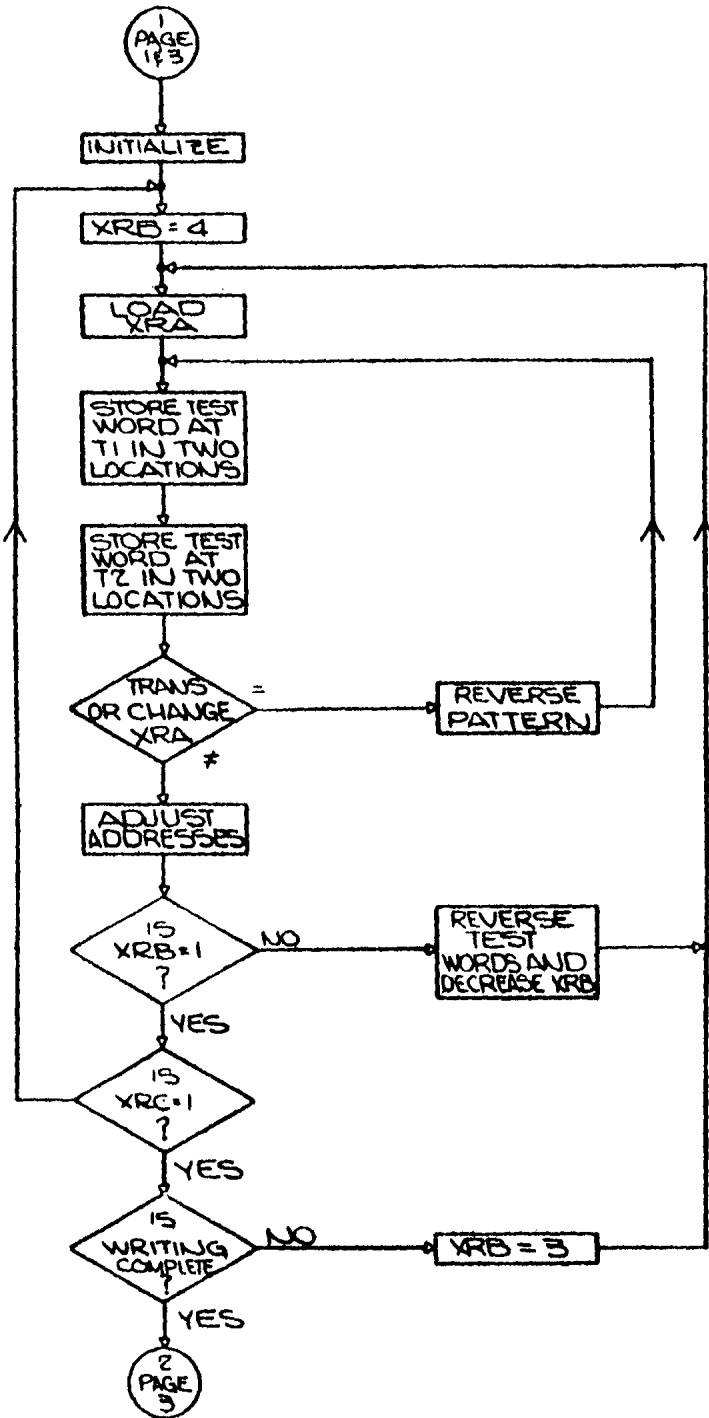
F. COMMENTS

1. THE PROGRAM TAKES ABOUT ONE MINUTE TO MAKE A SUCCESSFUL PASS THROUGH EACH HALF OF THE PROGRAM.
2. EACH HALF OF THE PROGRAM IS ALMOST IDENTICAL IN OPERATION EXCEPT THAT THE FIRST HALF OF THE PROGRAM WILL TEST THE HIGH END OF MEMORY AND THE SECOND HALF TESTS THE LOW END OF MEMORY.
3. THE PROGRAM WRITES A COMPLEMENT PATTERN, CHECKS A WORD, WRITES ANOTHER WORD IN ITS PLACE, CHECKS THIS WORD, AND THEN RESTORES THE INITIAL WORD. IT DOES THIS TO EACH ADDRESS IN SEQUENCE. AFTER ONE COMPLETE PATTERN IS READ, THE ROUTINE THEN WRITES AND CHECKS AN INVERSE PATTERN.
4. THE PROGRAM AS DESCRIBED ABOVE GOES THROUGH THIS ROUTINE THREE TIMES IN MAKING A COMPLETE PASS. THE FIRST TIME THROUGH THE ROUTINE THE TEST WORDS USED ARE -1- -ZERO AND -2- -377777777777. THE SECOND TIME THROUGH THE TEST WORDS ARE BOTH ZERO. THE THIRD TIME THROUGH THE TEST WORDS ARE BOTH -377777777777.
5. THE TWO TEST WORDS T1 AND T2 WILL ALTERNATE THROUGH THE NORMAL OPERATION OF THE TEST. THE PROGRAM WILL RUN CORRECTLY FOR ANY TEST WORDS.
6. THE BASIC TEST WORDS CAN BE CHANGED TO GIVE ANY NUMBER OF DIFFERENT PATTERNS. THEY ARE LOCATED AT 1244 AND 1245, AND 77343 AND 77344.
7. THE PROGRAM MAY FAIL BECAUSE OF AN ALTERATION IN THE PROGRAM ITSELF DUE TO A STORAGE FAILURE.
8. BY PUTTING SENSE SWITCH 1 DOWN WHEN SENSE LIGHTS 2 AND 3 ARE OFF, THE PROGRAM WILL LOOP IN THE COMPLEMENT CHECKERBOARD ROUTINE.  
  
WHEN LIGHT 2 IS ON IT WILL LOOP INTO THE ALL ZEROS ROUTINE.  
WHEN LIGHT 3 IS ON IT WILL LOOP INTO THE ALL ONES ROUTINE.
9. THE FIRST HALF OF THE PROGRAM WILL LOAD INTO MEMORY AND TEST THE MACHINE. WHEN SENSE SWITCH 6 IS UP THE SECOND HALF WILL LOAD INTO MEMORY AND TEST THE MACHINE.

File Attachments:	9s05h	Source	Cards	Deck
File Attachments:	9s05l	Source	Cards	Deck
File Attachments:	9s05l	Source	Cards	Deck

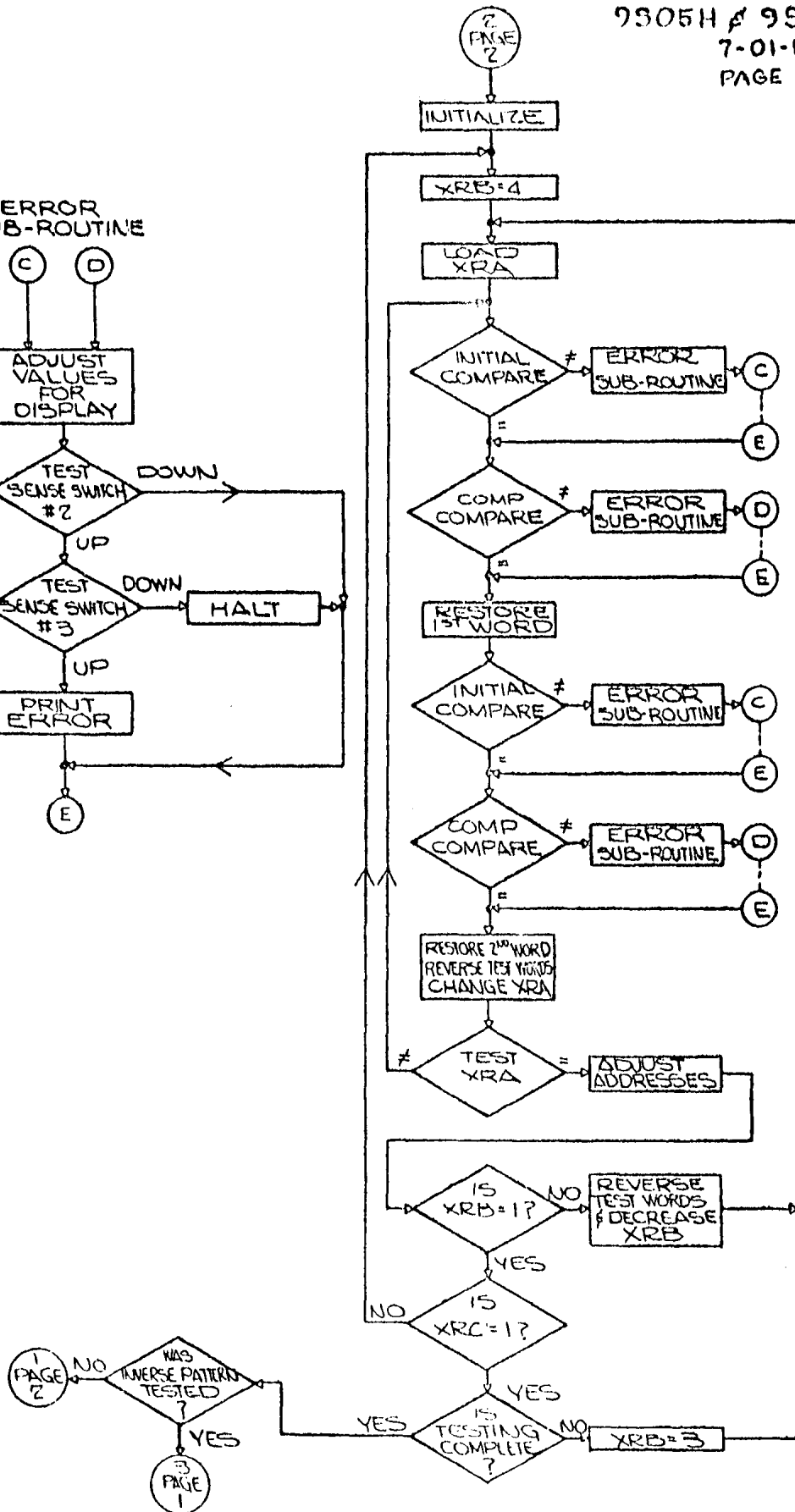
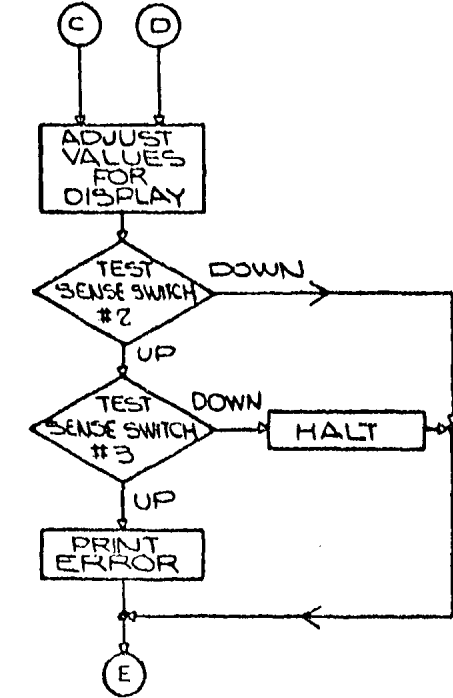
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ERROR SUB-ROUTINE



# 738 ADDRESSING-SWITCH CORE MATRIX

Y4	Y3	74K							X2	X1	ROW
		70K	74K	78K	82K	86K	90K	94K			
		34K	38K	42K	46K	50K	54K	58K	62K	66K	70K
		34K	38K	42K	46K	50K	54K	58K	62K	66K	70K
2,000	0	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
2,200	200	3,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
2,400	400	3,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
2,600	600	3,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
3,000	1,000	2,600	600	600	600	600	600	600	600	600	600
3,200	1,200	2,400	400	400	400	400	400	400	400	400	400
3,400	1,400	2,200	200	200	200	200	200	200	200	200	200
3,600	1,600	2,000	0	0	0	0	0	0	0	0	0

		COLUMN								
		1	2	3	4	5	6	7	8	
1	100	1	59	11	17	25	33	41	49	57
2	110	9	2	59	17	25	33	41	49	57
3	120	17	10	3	11	19	26	34	42	50
4	130	25	15	4	11	17	24	31	38	45
5	140	33	20	5	12	19	26	33	40	47
6	150	41	27	6	13	20	27	34	41	48
7	160	49	34	7	14	21	28	35	42	49
8	170	57	41	8	15	22	29	36	43	50



9S05 H

COMPLEMENT CHECKERBOARD TEST  
ALL ZERO TEST, AND  
ALL ONES TEST  
FOR A 738 CORE STORAGE  
THE FIRST HALF OF THE PROGRAM TESTS  
THE HIGH END OF MEMORY FROM 2000 TO  
77777, AND THE SECOND HALF TESTS THE  
LOW END OF MEMORY FROM 00000 TO 76000

SENSE LIGHTS 2+3 OFF- COMPLEMENT  
CHECKERBOARD TEST  
SENSE LIGHT 2 ON- ZEROS TEST  
SENSE LIGHT 3 ON- ONES TEST

00000	0020	00	0	01534		TRA	NPER	TO PRINT IDENTIFICATION
00001	0760	00	0	00140	AA	SLF		TURN ALL SENSE LIGHTS OFF
00002	0760	00	0	00144		SLN	4	TURN SENSE LIGHT 4 ON TO INDICATE THAT THE HIGH END OF MEMORY IS BEING TESTED

								ENTER COMPLEMENT CHECKERBOARD TEST
00003	0500	00	0	01244		CLA	TEST1	
00004	0601	00	0	01252		STO	T1	
00005	0500	00	0	01245		CLA	TEST2	
00006	0601	00	0	01253		STO	T2	
00007	0500	00	0	01261	AA1	CLA	K+2	L +2
00010	0601	00	0	01263		STO	K+4	RESTORE COUNTER
00011	0020	00	0	00161		TRA	E10A	REPEAT TEST

00012	0534	00	4	01265		LXA	M+1,4	L +7
00013	-0534	00	2	01264	A2	LXD	M,2	L +4
00014	0534	00	1	01254	A1	LXA	K0,1	L +0
00015	0500	00	0	01252		CLA	T1	
00016	0601	00	1	77777	A	STO	32767,1	WRITE PATTERN
00017	0601	00	1	77776		STO	32766,1	
00020	0500	00	0	01253		CLA	T2	
00021	0601	00	1	77775		STO	32765,1	
00022	0601	00	1	77774		STO	32764,1	
00023	1	00004	1	00024		TXI	A3,1,4	
00024	3	01777	1	00026	A3	TXH	A4,1,1023	
00025	0020	00	0	00015		TRA	A-1	
00026	0500	00	0	00016	A4	CLA	A	
00027	0402	00	0	01270		SUB	K1	L +2000
00030	0601	00	0	00016		STO	A	
00031	0402	00	0	01260		SUB	K+1	L +1
00032	0601	00	0	00017		STO	A+1	
00033	0402	00	0	01260		SUB	K+1	L +1
00034	0601	00	0	00021		STO	A+3	
00035	0402	00	0	01260		SUB	K+1	L +1
00036	0601	00	0	00022		STO	A+4	

00037	-3	00001	2	00045		TXL B,2,1	
00040	0560	00	0	01252		LDQ T1	
00041	0500	00	0	01253		CLA T2	REVERSE PATTERN FOR
00042	0601	00	0	01252		STO T1	NEXT BLOCK
00043	-0600	00	0	01253		STQ T2	
00044	2	00001	2	00014		TIX A1,2,1	
00045	2	00001	4	00013	B	TIX A2,4,1	REVERSE SECTION
00046	0500	00	0	01257	C	CLA K	L +2 OR +1---ENTERING LAST SECTION
00047	0402	00	0	01260		SUB K+1	L+1
00050	0100	00	0	00054		TZE D	START TESTING
							PATTERN WRITTEN FROM 02000 TO 777777
00051	0601	00	0	01257		STO K	L +3
00052	-0534	00	2	01265		LXD M+1,2	L +3
00053	0020	00	0	00014		TRA A1	
							TEST PATTERN
00054	0500	00	0	01261	D	CLA K+2	L+2
00055	0601	00	0	01257		STO K	RESTORE 2 COUNT
00056	0560	00	0	01252		LDQ T1	
00057	0500	00	0	01253		CLA T2	
00060	0601	00	0	01252		STO T1	SET INITIAL PATTERN
00061	-0600	00	0	01253		STQ T2	
00062	0534	00	4	01265		LXA M+1,4	L +7
00063	-0534	00	2	01264	E	LXD M,2	L +4
00064	0534	00	1	01254	E1	LXA K0,1	L +0
00065	0500	00	0	01252		CLA T1	
00066	0340	00	1	77777	E2	CAS 32767,1	
00067	0020	00	0	00246		TRA P	ERROR
00070	0020	00	0	00072		TRA E3	OK
00071	0020	00	0	00246		TRA P	ERROR
00072	0500	00	0	01253	E3	CLA T2	
00073	0601	00	1	77777		STO 32767,1	COMPLEMENT WORD
00074	0340	00	1	77777		CAS 32767,1	
00075	0020	00	0	00253		TRA P1	COMPLEMENT ERROR
00076	0020	00	0	00100		TRA E4	
00077	0020	00	0	00253		TRA P1	COMPLEMENT ERROR
00100	0500	00	0	01252	E4	CLA T1	
00101	0601	00	1	77777		STO 32767,1	RESTORE PATTERN
00102	0340	00	1	77776		CAS 32766,1	NEXT WORD
00103	0020	00	0	00260		TRA P2	ERROR
00104	0020	00	0	00106		TRA E5	OK
00105	0020	00	0	00260		TRA P2	ERROR
00106	0500	00	0	01253	E5	CLA T2	
00107	0601	00	1	77776		STO 32766,1	COMPLEMENT WORD
00110	0340	00	1	77776		CAS 32766,1	

00111	0020	00	0	00272		TRA P3	COMPLEMENT ERROR
00112	0020	00	0	00114		TRA E6	OK
00113	0020	00	0	00272		TRA P3	COMPLEMENT ERROR
00114	0500	00	0	01252	E6	CLA T1	
00115	0601	00	1	77776		STO 32766,1	RESTORE WORD
00116	1	00002	1	00117		TXI E6+3,1,2	
00117	0560	00	0	01252		LDQ T1	
00120	0500	00	0	01253		CLA T2	REVERSE PATTERN
00121	0601	00	0	01252		STO T1	
00122	-0600	00	0	01253		STQ T2	
00123	3	01777	1	00125		TXH E7,1,1023	
00124	0020	00	0	00066		TRA E2	
00125	0500	00	0	00066	E7	CLA E2	BLOCK REVERSAL
00126	0402	00	0	01270		SUB K1	L +2000
00127	0621	00	0	00066		STA E2	
00130	0621	00	0	00073		STA E3+1	
00131	0621	00	0	00074		STA E3+2	READJUST ADDRESS
00132	0621	00	0	00101		STA E4+1	
00133	0402	00	0	01260		SUB K+1	L +1
00134	0621	00	0	00102		STA E4+2	
00135	0621	00	0	00107		STA E5+1	
00136	0621	00	0	00110		STA E5+2	
00137	0621	00	0	00115		STA E6+1	
00140	-3	00001	2	00146		TXL E9,2,1	
00141	0560	00	0	01252		LDQ T1	REVERSE PATTERN FOR
00142	0500	00	0	01253		CLA T2	NEXT BLOCK
00143	0601	00	0	01252		STO T1	
00144	-0600	00	0	01253		STQ T2	
00145	2	00001	2	00064		TIX E1,2,1	
00146	2	00001	4	00063	E9	TIX E,4,1	REVERSE SECTION
00147	0500	00	0	01257		CLA K	L +2 OR +1---ENTERING LAST SECTION
00150	0402	00	0	01260		SUB K+1	L +1
00151	0100	00	0	00155		TZE E10	TESTING COMPLETE
00152	0601	00	0	01257		STO K	
00153	-0534	00	2	01265		LXD M+1,2	L +3
00154	0020	00	0	00064		TRA E1	
00155	0500	00	0	01263	E10	CLA K+4	L COUNTER
00156	0402	00	0	01260		SUB K+1	L +1
00157	0100	00	0	00204		TZE E11	PASS COMPLETED
00160	0601	00	0	01263		STO K+4	INVERT PREVIOUS PATTERN
00161	0500	00	0	01261	E10A	CLA K+2	L +2
00162	0601	00	0	01257		STO K	
00163	0500	00	0	01262		CLA K+3	L+77777
00164	0621	00	0	00016		STA A	
00165	0621	00	0	00066		STA E2	RESTORE INITIAL VALUES
00166	0621	00	0	00073		STA E3+1	
00167	0621	00	0	00074		STA E3+2	
00170	0621	00	0	00101		STA E4+1	

00171	0402	00	0	01260		SUB K+1	L +1
00172	0621	00	0	00017		STA A+1	
00173	0621	00	0	00102		STA E4+2	
00174	0621	00	0	00107		STA E5+1	
00175	0621	00	0	00110		STA E5+2	
00176	0621	00	0	00115		STA E6+1	
00177	0402	00	0	01260		SUB K+1	L +1
00200	0621	00	0	00021		STA A+3	
00201	0402	00	0	01260		SUB K+1	L +1
00202	0621	00	0	00022		STA A+4	
00203	0020	00	0	00012		TRA A2-1	WRITE INVERSE PATTERN
00204	0760	00	0	00161	E11	SWT 1	TEST SENSE SWITCH 1
00205	0020	00	0	00207		TRA E11+3	GO TO NEXT TEST
00206	0020	00	0	00007		TRA AA1	LOOP IN PRESENT TEST
00207	-0760	00	0	00142		SLT 2	TEST SENSE LIGHT 2
00210	0020	00	0	00217		TRA E11A	OFF - TEST LIGHT 3
							JUST COMPLETED ALL ZEROS TEST
00211	0760	00	0	00143		SLN 3	TURN SENSE LIGHT 3 ON
00212	0500	00	0	01250		CLA ONES	
00213	0601	00	0	01252		STO T1	
00214	0500	00	0	01251		CLA ONES+1	
00215	0601	00	0	01253		STO T2	
00216	0020	00	0	00007		TRA AA1	ENTER ALL ONES TEST
00217	-0760	00	0	00143	E11A	SLT 3	TEST SENSE LIGHT 3
00220	0020	00	0	00240		TRA E11B	OFF - ENTER ZEROS TEST
00221	0760	00	0	00163	PCOM	SWT 3	
00222	0020	00	0	00224		TRA *+2	
00223	0020	00	0	00231		TRA SW6	
00224	0766	00	0	01361		WPRA	TO PRINT PASS COMPLETE
00225	0760	00	0	01363		SPRA 3	
00226	0540	00	0	00230		RCHA *+2	
00227	0020	00	0	00231		TRA SW6	
00230	0000	30	0	01574		IOCD PPER,0,24	
00231	0760	00	0	00166	SW6	SWT 6	TEST SWITCH 6
00232	0020	00	0	00234		TRA *+2	UP-READ NEXT PROGRAM
00233	0020	00	0	00001		TRA AA	REPEAT TEST
00234	0762	00	0	01321		RCDA	READ IN NEXT TEST
00235	0540	00	0	01530		RCHA CNTL	
00236	0544	00	0	00000		LCHA 0	
00237	0020	00	0	00001		TRA 1	
00240	0760	00	0	00142	E11B	SLN 2	TURN ON SENSE LIGHT 2
00241	0500	00	0	01246		CLA ZEROS	
00242	0601	00	0	01252		STO T1	
00243	0500	00	0	01247		CLA ZEROS+1	
00244	0601	00	0	01253		STO T2	
00245	0020	00	0	00007		TRA AA1	ENTER ALL ZEROS TEST

ERROR ROUTINES

00246	0500	00	0	00066	P	CLA E2	ERROR
00247	0621	00	0	01256		STA K-1	
00250	0500	00	0	00070		CLA E2+2	L TRA E3
00251	0601	00	0	01243		STO P13	PROGRAM RETURN
00252	0020	00	0	00264		TRA P2+4	
00253	0500	00	0	00074	P1	CLA E3+2	COMPLEMENT ERROR
00254	0621	00	0	01256		STA K-1	
00255	0500	00	0	00076		CLA E3+4	L TRA E4
00256	0601	00	0	01243		STO P13	PROGRAM RETURN
00257	0020	00	0	00276		TRA P3+4	
00260	0500	00	0	00102	P2	CLA E4+2	ERROR
00261	0621	00	0	01256		STA K-1	
00262	0500	00	0	00104		CLA E4+4	L TRA E5
00263	0601	00	0	01243		STO P13	PROGRAM RETURN
00264	-0500	00	0	01252		CAL T1	TEST WORD
00265	0602	00	0	01421		SLW PR5	
00266	0760	00	0	00006		COM	
00267	0602	00	0	01423		SLW PR5+2	COMPLEMENT OF TEST WORD
00270	0500	00	0	01254		CLA K0	L +0---INITIAL PATTERN
00271	0020	00	0	00303		TRA P3A	
00272	0500	00	0	00110	P3	CLA E5+2	COMPLEMENT ERROR
00273	0621	00	0	01256		STA K-1	
00274	0500	00	0	00112		CLA E5+4	L TRA E6
00275	0601	00	0	01243		STO P13	PROGRAM RETURN
00276	-0500	00	0	01253		CAL T2	TEST WORD
00277	0602	00	0	01421		SLW PR5	
00300	0760	00	0	00006		COM	
00301	0602	00	0	01423		SLW PR5+2	COMPLEMENT OF TEST WORD
00302	0500	00	0	01271		CLA K1+1	L +7000000
00303	0601	00	0	01347	P3A	STO P6	INITIAL OR COMPLEMENT
00304	-0754	00	1	00000		PXD 0,1	
00305	0765	00	0	00022		LRS 18	
00306	0402	00	0	01256		SUB K-1	
00307	0621	00	0	00311		STA P3A+6	ADDRESS OF ERROR WORD
00310	0621	00	0	01347		STA P6	
00311	-0500	00	0	00000		CAL	ERROR WORD
00312	0602	00	0	01371		SLW PR4	
00313	0760	00	0	00006		COM	
00314	0602	00	0	01373		SLW PR4+2	COMPLEMENT OF ERROR WORD
00315	0760	00	0	00162	P10	SWT 2	TEST SENSE SWITCH 2
00316	0020	00	0	00320		TRA P10+3	INDICATE ERROR
00317	0020	00	0	01243		TRA P13	BYPASS ERROR

00320	0760	00	0	00163	SWT 3	TEST SENSE SWITCH 3
00321	0020	00	0	00325	TRA E13	PRINT
00322	0560	00	0	01347	LDQ P6	ERROR ADDRESS
00323	0500	00	0	01371	CLA PR4	ERROR WORD
00324	0000	00	0	01243	HTR P13	PROGRAM RETURN
00325	-0634	00	1	01255	E13 SXD K-2,1	PRINT ERROR
00326	0534	00	1	01267	LXA M+3,1	L +10
00327	0600	00	1	01440	STZ PR7+8,1	
00330	2 00001	1	00327	TIX E13+2,1,1		
00331	0500	00	0	01277	CLA K3	L +7
00332	-0320	00	0	01347	ANA P6	L ERROR ADDRESS
00333	0734	00	1	00000	PAX 0,1	
00334	0500	00	0	01272	CLA K2	L 20000
00335	-0602	00	1	01437	ORS PR7+7,1	
00336	0500	00	0	01300	CLA K3+1	L +70
00337	-0320	00	0	01347	ANA P6	L ERROR ADDRESS
00340	0771	00	0	00003	ARS 3	
00341	0734	00	1	00000	PAX 0,1	
00342	0500	00	0	01273	CLA K2+1	L 40000
00343	-0602	00	1	01437	ORS PR7+7,1	
00344	0500	00	0	01301	CLA K3+2	L +700
00345	-0320	00	0	01347	ANA P6	L ERROR ADDRESS
00346	0771	00	0	00006	ARS 6	
00347	0734	00	1	00000	PAX 0,1	
00350	0500	00	0	01274	CLA K2+2	L 100000
00351	-0602	00	1	01437	ORS PR7+7,1	
00352	0500	00	0	01302	CLA K3+3	L +7000
00353	-0320	00	0	01347	ANA P6	L ERROR ADDRESS
00354	0771	00	0	00011	ARS 9	
00355	0734	00	1	00000	PAX 0,1	
00356	0500	00	0	01275	CLA K2+3	L 200000
00357	-0602	00	1	01437	ORS PR7+7,1	
00360	0500	00	0	01303	CLA K3+4	L +70000
00361	-0320	00	0	01347	ANA P6	L ERROR ADDRESS
00362	0771	00	0	00014	ARS 12	
00363	0734	00	1	00000	PAX 0,1	
00364	0500	00	0	01276	CLA K2+4	L 400000
00365	-0602	00	1	01437	ORS PR7+7,1	
00366	-0534	00	1	01266	LXD M+2,1	L +27
00367	0500	00	0	01304	CLA K4	L +777777017777
00370	0320	00	1	01377	P10AA ANS PR4+6,1	
00371	2 00002	1	00370	TIX P10AA,1,2		
00372	-0534	00	1	01266	LXD M+2,1	L +27
00373	0500	00	0	01305	CLA K4+1	L 37777777
00374	0320	00	1	01427	P10AB ANS PR5+6,1	
00375	2 00002	1	00374	TIX P10AB,1,2		
00376	0500	00	0	01306	CLA K5	
00377	0601	00	0	00402	STO P10A	

00400	0534	00	1	01267		LXA M+3,1	L +10
00401	0500	00	1	01440		CLA PR7+8,1	
00402	-0602	00	1	01364	P10A	ORS PR1+12,1	
00403	0500	00	0	00402		CLA P10A	
00404	0402	00	0	01260		SUB K+1	L -1
00405	0621	00	0	00402		STA P10A	
00406	2 00001	1	1	00401		TIX P10A-1,1,1	
00407	0534	00	1	01266		LXA M+2,1	L +30
00410	0500	00	0	01271		CLA K1+1	L 7000000
00411	-0320	00	0	01347		ANA P6	L ERROR ADDRESS
00412	-0100	00	0	00417		TNZ PP1	COMPLEMENT PATTERN
00413	0500	00	1	01470	PP	CLA PR8+24,1	INITIAL PATTERN
00414	-0602	00	1	01430		ORS PR2+24,1	
00415	2 00002	1	1	00413		TIX PP,1,2	
00416	0020	00	0	00422		TRA PP1+3	
00417	0500	00	1	01471	PP1	CLA PR8+25,1	COMPLEMENT
00420	-0602	00	1	01430		ORS PR2+24,1	
00421	2 00002	1	1	00417		TIX PP1,1,2	
00422	0766	00	0	01361		WPRA	PRINT FIRST LINE
00423	0760	00	0	01363		SPRA 3	DOUBLE SPACE
00424	0760	00	0	01364		SPRA 4	TO GET OCTAL SPACING
00425	0540	00	0	01531		RCHA CNTL1	L CONTROL FIRST LINE
00426	0766	00	0	01361		WPRA	PRINT SECOND LINE
00427	0760	00	0	01364		SPRA 4	TO GET OCTAL SPACING
00430	0540	00	0	01532		RCHA CNTL2	L CONTROL SECOND LINE
00431	-0500	00	0	01521		CAL PR11+1	L 77777777377
00432	0320	00	0	01502		ANS PR10+10	
00433	0320	00	0	01504		ANS PR10+12	RESET PRINT IMAGE
00434	0320	00	0	01506		ANS PR10+14	
00435	0320	00	0	01510		ANS PR10+16	
00436	-0500	00	0	01527		CAL PR12+5	L 757673777576
00437	-0534	00	1	01267		LXD M+3,1	L 20
00440	0320	00	1	01513	P12A	ANS PR10+19,1	RESET PRINT IMAGE
00441	2 00002	1	1	00440		TIX P12A,1,2	
00442	0500	00	0	01311		CLA K10	L +77777
00443	-0320	00	0	01347		ANA P6	ERROR ADDRESS
00444	0601	00	0	01310		STO K10-1	SAVE ADDRESS
00445	0340	00	0	01321		CAS K10+8	L +40000
00446	0020	00	0	00660		TRA Y3	3RD OR 4TH QUADRANT
00447	0020	00	0	00660		TRA Y3	1ST OR 2ND QUADRANT
00450	0340	00	0	01325		CAS K10+12	L +20000
00451	0020	00	0	00454		TRA Y1	1ST 4 COLUMNS
00452	0020	00	0	00454		TRA Y1	
00453	0020	00	0	00466		TRA Y112	LAST 4 COLUMNS
00454	0340	00	0	01322	Y1	CAS K10+9	L +34000
00455	0020	00	0	00500		TRA R1A	COLUMN 1

00456	0020	00	0	00500		TRA R1A	
00457	0340	00	0	01323		CAS K10+10	L +30000
00460	0020	00	0	00505		TRA R2A	COLUMN 2
00461	0020	00	0	00505		TRA R2A	
00462	0340	00	0	01324		CAS K10+11	L +24000
00463	0020	00	0	00512		TRA R3A	COLUMN 3
00464	0020	00	0	00512		TRA R3A	
00465	0020	00	0	00517		TRA R4A	COLUMN 4
00466	0340	00	0	01326	Y112	CAS K10+13	L +14000
00467	0020	00	0	00524		TRA R5A	COLUMN 5
00470	0020	00	0	00524		TRA R5A	
00471	0340	00	0	01327		CAS K10+14	L +10000
00472	0020	00	0	00531		TRA R6A	COLUMN 6
00473	0020	00	0	00531		TRA R6A	
00474	0340	00	0	01330		CAS K10+15	L +4000
00475	0020	00	0	00536		TRA R7A	COLUMN 7
00476	0020	00	0	00536		TRA R7A	
00477	0020	00	0	00543		TRA R8A	COLUMN 8
00500	0500	00	0	01523	R1A	CLA PR12+1	
00501	-0602	00	0	01511		ORS PR10+17	COL 1 Y MATRIX
00502	0500	00	0	01310		CLA K10-1	
00503	0402	00	0	01322		SUB K10+9	L 34000
00504	0020	00	0	00546		TRA R9	
00505	0500	00	0	01523	R2A	CLA PR12+1	
00506	-0602	00	0	01507		ORS PR10+15	COL 2 Y MATRIX
00507	0500	00	0	01310		CLA K10-1	
00510	0402	00	0	01323		SUB K10+10	L 30000
00511	0020	00	0	00546		TRA R9	
00512	0500	00	0	01523	R3A	CLA PR12+1	
00513	-0602	00	0	01505		ORS PR10+13	COL 3 Y MATRIX
00514	0500	00	0	01310		CLA K10-1	
00515	0402	00	0	01324		SUB K10+11	L 24000
00516	0020	00	0	00546		TRA R9	
00517	0500	00	0	01523	R4A	CLA PR12+1	
00520	-0602	00	0	01503		ORS PR10+11	COL 4 Y MATRIX
00521	0500	00	0	01310		CLA K10-1	
00522	0402	00	0	01325		SUB K10+12	L 20000
00523	0020	00	0	00546		TRA R9	
00524	0500	00	0	01523	R5A	CLA PR12+1	
00525	-0602	00	0	01501		ORS PR10+9	COL 5 Y MATRIX
00526	0500	00	0	01310		CLA K10-1	
00527	0402	00	0	01326		SUB K10+13	L 14000
00530	0020	00	0	00546		TRA R9	
00531	0500	00	0	01523	R6A	CLA PR12+1	
00532	-0602	00	0	01477		ORS PR10+7	COL 6 Y MATRIX
00533	0500	00	0	01310		CLA K10-1	
00534	0402	00	0	01327		SUB K10+14	L 10000
00535	0020	00	0	00546		TRA R9	



00536	0500	00	0	01523	R7A	CLA PR12+1	
00537	-0602	00	0	01475		ORS PR10+5	COL 7 Y MATRIX
00540	0500	00	0	01310		CLA K10-1	
00541	0402	00	0	01330		SUB K10+15	L 4000
00542	0020	00	0	00546		TRA R9	
00543	0500	00	0	01523	R8A	CLA PR12+1	
00544	-0602	00	0	01473		ORS PR10+3	COL 8 Y MATRIX
00545	0500	00	0	01310		CLA K10-1	
00546	0601	00	0	01307	R9	STO K10-2	
00547	0340	00	0	01331		CAS K10+16	L 2000
00550	0020	00	0	00556		TRA R10	
00551	0020	00	0	00556		TRA R10	
00552	0500	00	0	01520		CLA PR11	
00553	-0602	00	0	01510		ORS PR10+16	Y1 MATRIX
00554	0500	00	0	01307		CLA K10-2	
00555	0020	00	0	00562		TRA R13A	
00556	0500	00	0	01520	R10	CLA PR11	
00557	-0602	00	0	01506		ORS PR10+14	Y2 MATRIX
00560	0500	00	0	01307		CLA K10-2	
00561	0402	00	0	01331		SUB K10+16	L 2000
00562	0340	00	0	01335	R13A	CAS K11+3	L 1000
00563	0020	00	0	00577		TRA R14A	1ST FOUR ROWS
00564	0020	00	0	00577		TRA R14A	
00565	0340	00	0	01336		CAS K11+4	L 600
00566	0020	00	0	00611		TRA R15A	ROW 5
00567	0020	00	0	00611		TRA R15A	
00570	0340	00	0	01337		CAS K11+5	L 400
00571	0020	00	0	00616		TRA R16A	ROW 6
00572	0020	00	0	00616		TRA R16A	
00573	0340	00	0	01340		CAS K11+6	L 200
00574	0020	00	0	00623		TRA R17A	ROW 7
00575	0020	00	0	00623		TRA R17A	
00576	0020	00	0	00630		TRA R18A	ROW 8
00577	0340	00	0	01332	R14A	CAS K11	L 1600
00600	0020	00	0	00634		TRA R19A	ROW 1
00601	0020	00	0	00634		TRA R19A	
00602	0340	00	0	01333		CAS K11+1	L 1400
00603	0020	00	0	00641		TRA R20A	ROW 2
00604	0020	00	0	00641		TRA R20A	
00605	0340	00	0	01334		CAS K11+2	L 1200
00606	0020	00	0	00646		TRA R21A	ROW 3
00607	0020	00	0	00646		TRA R21A	
00610	0020	00	0	00653		TRA R22A	ROW 4
00611	0500	00	0	01522	R15A	CLA PR12	
00612	-0602	00	0	01501		ORS PR10+9	ROW 5 Y MATRIX
00613	0500	00	0	01307		CLA K10-2	
00614	0402	00	0	01336		SUB K11+4	L 600
00615	0020	00	0	01071		TRA R23	
00616	0500	00	0	01522	R16A	CLA PR12	

00617	-0602	00	0	01477		ORS PR10+7	ROW 6 Y MATRIX
00620	0500	00	0	01307		CLA K10-2	
00621	0402	00	0	01337		SUB K11+5	L 400
00622	0020	00	0	01071		TRA R23	
00623	0500	00	0	01522	R17A	CLA PR12	
00624	-0602	00	0	01475		ORS PR10+5	ROW 7 Y MATRIX
00625	0500	00	0	01307		CLA K10-2	
00626	0402	00	0	01340		SUB K11+6	L 200
00627	0020	00	0	01071		TRA R23	
00630	0500	00	0	01522	R18A	CLA PR12	
00631	-0602	00	0	01473		ORS PR10+3	ROW 8 Y MATRIX
00632	0500	00	0	01307		CLA K10-2	
00633	0020	00	0	01071		TRA R23	
00634	0500	00	0	01522	R19A	CLA PR12	
00635	-0602	00	0	01511		ORS PR10+17	ROW 1 Y MATRIX
00636	0500	00	0	01307		CLA K10-2	
00637	0402	00	0	01332		SUB K11	L 1600
00640	0020	00	0	01071		TRA R23	
00641	0500	00	0	01522	R20A	CLA PR12	
00642	-0602	00	0	01507		ORS PR10+15	ROW 2 Y MATRIX
00643	0500	00	0	01307		CLA K10-2	
00644	0402	00	0	01333		SUB K11+1	L 1400
00645	0020	00	0	01071		TRA R23	
00646	0500	00	0	01522	R21A	CLA PR12	
00647	-0602	00	0	01505		ORS PR10+13	ROW 3 Y MATRIX
00650	0500	00	0	01307		CLA K10-2	
00651	0402	00	0	01334		SUB K11+2	L 1200
00652	0020	00	0	01071		TRA R23	
00653	0500	00	0	01522	R22A	CLA PR12	
00654	-0602	00	0	01503		ORS PR10+11	ROW 4 Y MATRIX
00655	0500	00	0	01307		CLA K10-2	
00656	0402	00	0	01335		SUB K11+3	L 1200
00657	0020	00	0	01071		TRA R23	
00660	0340	00	0	01315	Y3	CAS K10+4	L +60000
00661	0020	00	0	00664		TRA Y3+4	Y3 OR Y4 1ST 4 COLUMNS
00662	0020	00	0	00664		TRA Y3+4	
00663	0020	00	0	00676		TRA Y312	Y3 OR Y4 LAST 4 COLUMNS
							Y3 OR Y4
00664	0340	00	0	01312		CAS K10+1	L +74000
00665	0020	00	0	00710		TRA R1B	COLUMN 1
00666	0020	00	0	00710		TRA R1B	
00667	0340	00	0	01313		CAS K10+2	L +70000
00670	0020	00	0	00715		TRA R2B	COLUMN 2
00671	0020	00	0	00715		TRA R2B	
00672	0340	00	0	01314		CAS K10+3	L +64000
00673	0020	00	0	00722		TRA R3B	COLUMN 3
00674	0020	00	0	00722		TRA R3B	
00675	0020	00	0	00727		TRA R4B	COLUMN 4

00676	0340	00	0	01316	Y312	CAS K10+5	L +54000
00677	0020	00	0	00734		TRA R5B	COLUMN 5
00700	0020	00	0	00734		TRA R5B	
00701	0340	00	0	01317		CAS K10+6	L +50000
00702	0020	00	0	00741		TRA R6B	COLUMN 6
00703	0020	00	0	00741		TRA R6B	
00704	0340	00	0	01320		CAS K10+7	L +44000
00705	0020	00	0	00746		TRA R7B	COLUMN 7
00706	0020	00	0	00746		TRA R7B	
00707	0020	00	0	00753		TRA R8B	COLUMN 8
00710	0500	00	0	01523	R1B	CLA PR12+1	
00711	-0602	00	0	01511		ORS PR10+17	COL 1 Y MATRIX
00712	0500	00	0	01310		CLA K10-1	
00713	0402	00	0	01312		SUB K10+1	L 74000
00714	0020	00	0	00760		TRA R11	
00715	0500	00	0	01523	R2B	CLA PR12+1	
00716	-0602	00	0	01507		ORS PR10+15	COL 2 Y MATRIX
00717	0500	00	0	01310		CLA K10-1	
00720	0402	00	0	01313		SUB K10+2	L 70000
00721	0020	00	0	00760		TRA R11	
00722	0500	00	0	01523	R3B	CLA PR12+1	
00723	-0602	00	0	01505		ORS PR10+13	COL 3 Y MATRIX
00724	0500	00	0	01310		CLA K10-1	
00725	0402	00	0	01314		SUB K10+3	L 64000
00726	0020	00	0	00760		TRA R11	
00727	0500	00	0	01523	R4B	CLA PR12+1	
00730	-0602	00	0	01503		ORS PR10+11	COL 4 Y MATRIX
00731	0500	00	0	01310		CLA K10-1	
00732	0402	00	0	01315		SUB K10+4	L 60000
00733	0020	00	0	00760		TRA R11	
00734	0500	00	0	01523	R5B	CLA PR12+1	
00735	-0602	00	0	01501		ORS PR10+9	COL 5 Y MATRIX
00736	0500	00	0	01310		CLA K10-1	
00737	0402	00	0	01316		SUB K10+5	L 54000
00740	0020	00	0	00760		TRA R11	
00741	0500	00	0	01523	R6B	CLA PR12+1	
00742	-0602	00	0	01477		ORS PR10+7	COL 6 Y MATRIX
00743	0500	00	0	01310		CLA K10-1	
00744	0402	00	0	01317		SUB K10+6	L 50000
00745	0020	00	0	00760		TRA R11	
00746	0500	00	0	01523	R7B	CLA PR12+1	
00747	-0602	00	0	01475		ORS PR10+5	COL 7 Y MATRIX
00750	0500	00	0	01310		CLA K10-1	
00751	0402	00	0	01320		SUB K10+7	L 44000
00752	0020	00	0	00760		TRA R11	
00753	0500	00	0	01523	R8B	CLA PR12+1	
00754	-0602	00	0	01473		ORS PR10+3	COL 8 Y MATRIX
00755	0500	00	0	01310		CLA K10-1	

00756	0402	00	0	01321		SUB K10+8	L 40000
00757	0020	00	0	00760		TRA R11	
00760	0601	00	0	01307	R11	STO K10-2	
00761	0340	00	0	01331		CAS K10+16	L 2000
00762	0020	00	0	00770		TRA R12	
00763	0020	00	0	00770		TRA R12	
00764	0500	00	0	01520		CLA PR11	
00765	-0602	00	0	01504		ORS PR10+12	Y3 MATRIX
00766	0500	00	0	01307		CLA K10-2	
00767	0020	00	0	00774		TRA R13B	
00770	0500	00	0	01520	R12	CLA PR11	
00771	-0602	00	0	01502		ORS PR10+10	Y4 MATRIX
00772	0500	00	0	01307		CLA K10-2	
00773	0402	00	0	01331		SUB K10+16	L 2000
00774	0340	00	0	01335	R13B	CAS K11+3	L 1000
00775	0020	00	0	01011		TRA R14B	LAST FOUR ROWS
00776	0020	00	0	01011		TRA R14B	
00777	0340	00	0	01336		CAS K11+4	L 600
01000	0020	00	0	01023		TRA R15B	ROW 4
01001	0020	00	0	01023		TRA R15B	
01002	0340	00	0	01337		CAS K11+5	L 400
01003	0020	00	0	01030		TRA R16B	ROW 3
01004	0020	00	0	01030		TRA R16B	
01005	0340	00	0	01340		CAS K11+6	L 200
01006	0020	00	0	01035		TRA R17B	ROW 2
01007	0020	00	0	01035		TRA R17B	
01010	0020	00	0	01042		TRA R18B	ROW 1
01011	0340	00	0	01332	R14B	CAS K11	L 1600
01012	0020	00	0	01046		TRA R19B	ROW 8
01013	0020	00	0	01046		TRA R19B	
01014	0340	00	0	01333		CAS K11+1	L 1400
01015	0020	00	0	01053		TRA R20B	ROW 7
01016	0020	00	0	01053		TRA R20B	
01017	0340	00	0	01334		CAS K11+2	L 1200
01020	0020	00	0	01060		TRA R21B	ROW 6
01021	0020	00	0	01060		TRA R21B	
01022	0020	00	0	01065		TRA R22B	ROW 5
01023	0500	00	0	01522	R15B	CLA PR12	
01024	-0602	00	0	01503		ORS PR10+11	ROW 4 Y MATRIX
01025	0500	00	0	01307		CLA K10-2	
01026	0402	00	0	01336		SUB K11+4	L 600
01027	0020	00	0	01071		TRA R23	
01030	0500	00	0	01522	R16B	CLA PR12	
01031	-0602	00	0	01505		ORS PR10+13	ROW 3 Y MATRIX
01032	0500	00	0	01307		CLA K10-2	
01033	0402	00	0	01337		SUB K11+5	L 400
01034	0020	00	0	01071		TRA R23	
01035	0500	00	0	01522	R17B	CLA PR12	
01036	-0602	00	0	01507		ORS PR10+15	ROW 2 Y MATRIX

01037	0500	00	0	01307		CLA K10-2	
01040	0402	00	0	01340		SUB K11+6	L 200
01041	0020	00	0	01071		TRA R23	
01042	0500	00	0	01522	R18B	CLA PR12	
01043	-0602	00	0	01511		ORS PR10+17	ROW 1 Y MATRIX
01044	0500	00	0	01307		CLA K10-2	
01045	0020	00	0	01071		TRA R23	
01046	0500	00	0	01522	R19B	CLA PR12	
01047	-0602	00	0	01473		ORS PR10+3	ROW 8 Y MATRIX
01050	0500	00	0	01307		CLA K10-2	
01051	0402	00	0	01332		SUB K11	L 1600
01052	0020	00	0	01071		TRA R23	
01053	0500	00	0	01522	R20B	CLA PR12	
01054	-0602	00	0	01475		ORS PR10+5	ROW 7 Y MATRIX
01055	0500	00	0	01307		CLA K10-2	
01056	0402	00	0	01333		SUB K11+1	L 1400
01057	0020	00	0	01071		TRA R23	
01060	0500	00	0	01522	R21B	CLA PR12	
01061	-0602	00	0	01477		ORS PR10+7	ROW 6 Y MATRIX
01062	0500	00	0	01307		CLA K10-2	
01063	0402	00	0	01334		SUB K11+2	L 1200
01064	0020	00	0	01071		TRA R23	
01065	0500	00	0	01522	R22B	CLA PR12	
01066	-0602	00	0	01501		ORS PR10+9	ROW 5 Y MATRIX
01067	0500	00	0	01307		CLA K10-2	
01070	0402	00	0	01335		SUB K11+3	L 1200
01071	0601	00	0	01307	R23	STO K10-2	
01072	-0320	00	0	01341		ANA K11+7	L7
01073	0340	00	0	01342		CAS K11+8	L4
01074	0020	00	0	01117		TRA R24D	1ST 4 COLUMNS
01075	0020	00	0	01117		TRA R24D	
01076	-0100	00	0	01102		TNZ R24A	
01077	0500	00	0	01526		CLA PR12+4	
01100	-0602	00	0	01473		ORS PR10+3	COLUMN 8 X MATRIX
01101	0020	00	0	01140		TRA R25	
01102	0402	00	0	01343	R24A	SUB K11+9	L1
01103	-0100	00	0	01107		TNZ R24B	
01104	0500	00	0	01526		CLA PR12+4	
01105	-0602	00	0	01475		ORS PR10+5	COLUMN 7 X MATRIX
01106	0020	00	0	01140		TRA R25	
01107	0402	00	0	01343	R24B	SUB K11+9	L1
01110	-0100	00	0	01114		TNZ R24C	
01111	0500	00	0	01526		CLA PR12+4	
01112	-0602	00	0	01477		ORS PR10+7	COLUMN 6 X MATRIX
01113	0020	00	0	01140		TRA R25	
01114	0500	00	0	01526	R24C	CLA PR12+4	
01115	-0602	00	0	01501		ORS PR10+9	COLUMN 5 X MATRIX

01116	0020	00	0	01140		TRA R25	
01117	0402	00	0	01342	R24D	SUB K11+8	L4
01120	-0100	00	0	01124		TNZ R24E	
01121	0500	00	0	01526		CLA PR12+4	
01122	-0602	00	0	01503		ORS PR10+11	COLUMN 4 X MATRIX
01123	0020	00	0	01140		TRA R25	
01124	0402	00	0	01343	R24E	SUB K11+9	L1
01125	-0100	00	0	01131		TNZ R24F	
01126	0500	00	0	01526		CLA PR12+4	
01127	-0602	00	0	01505		ORS PR10+13	COLUMN 3 X MATRIX
01130	0020	00	0	01140		TRA R25	
01131	0402	00	0	01343	R24F	SUB K11+9	L1
01132	-0100	00	0	01136		TNZ R24G	
01133	0500	00	0	01526		CLA PR12+4	
01134	-0602	00	0	01507		ORS PR10+15	COLUMN 2 X MATRIX
01135	0020	00	0	01140		TRA R25	
01136	0500	00	0	01526	R24G	CLA PR12+4	
01137	-0602	00	0	01511		ORS PR10+17	COLUMN 1 X MATRIX
01140	0500	00	0	01307	R25	CLA K10-2	
01141	-0320	00	0	01344		ANA K11+10	L 770
01142	0601	00	0	01307		STO K10-2	TEMP STORAGE
01143	0340	00	0	01345		CAS K11+11	L 100
01144	0020	00	0	01151		TRA R26	X2 MATRIX
01145	0020	00	0	01151		TRA R26	
01146	0500	00	0	01524		CLA PR12+2	
01147	-0602	00	0	01511		ORS PR10+17	X 1 MATRIX
01150	0020	00	0	01173		TRA R27	
01151	0500	00	0	01524	R26	CLA PR12+2	
01152	-0602	00	0	01507		ORS PR10+15	X 2 MATRIX
01153	0500	00	0	01307		CLA K10-2	
01154	0402	00	0	01345		SUB K11+11	L 100
01155	0100	00	0	01236		TZE R27G	ROW 1 X2 MATRIX
01156	0402	00	0	01346		SUB K11+12	L 10
01157	0100	00	0	01233		TZE R27F+2	ROW 2 X2
01160	0402	00	0	01346		SUB K11+12	
01161	0100	00	0	01226		TZE R27E+2	ROW 3 X2
01162	0402	00	0	01346		SUB K11+12	
01163	0100	00	0	01221		TZE R27D+2	ROW 4 X2
01164	0402	00	0	01346		SUB K11+12	
01165	0100	00	0	01214		TZE R27C+2	ROW 5 X2
01166	0402	00	0	01346		SUB K11+12	
01167	0100	00	0	01207		TZE R27B+2	ROW 6 X2
01170	0402	00	0	01346		SUB K11+12	
01171	0100	00	0	01202		TZE R27A+2	ROW 7 X2
01172	0020	00	0	01175		TRA R27+2	ROW 8 X2
01173	0500	00	0	01307	R27	CLA K10-2	
01174	-0100	00	0	01200		TNZ R27A	
01175	0500	00	0	01525		CLA PR12+3	
01176	-0602	00	0	01473		ORS PR10+3	ROW 8 X MATRIX

01177	0020	00	0	01240		TRA R28	
01200	0402	00	0	01346	R27A	SUB K11+12	L 10
01201	-0100	00	0	01205		TNZ R27B	
01202	0500	00	0	01525		CLA PR12+3	
01203	-0602	00	0	01475		ORS PR10+5	ROW 7 X MATRIX
01204	0020	00	0	01240		TRA R28	
01205	0402	00	0	01346	R27B	SUB K11+12	L 10
01206	-0100	00	0	01212		TNZ R27C	
01207	0500	00	0	01525		CLA PR12+3	
01210	-0602	00	0	01477		ORS PR10+7	ROW 6 X MATRIX
01211	0020	00	0	01240		TRA R28	
01212	0402	00	0	01346	R27C	SUB K11+12	L 10
01213	-0100	00	0	01217		TNZ R27D	
01214	0500	00	0	01525		CLA PR12+3	
01215	-0602	00	0	01501		ORS PR10+9	ROW 5 X MATRIX
01216	0020	00	0	01240		TRA R28	
01217	0402	00	0	01346	R27D	SUB K11+12	L 10
01220	-0100	00	0	01224		TNZ R27E	
01221	0500	00	0	01525		CLA PR12+3	
01222	-0602	00	0	01503		ORS PR10+11	ROW 4 X MATRIX
01223	0020	00	0	01240		TRA R28	
01224	0402	00	0	01346	R27E	SUB K11+12	L 10
01225	-0100	00	0	01231		TNZ R27F	
01226	0500	00	0	01525		CLA PR12+3	
01227	-0602	00	0	01505		ORS PR10+13	ROW 3 X MATRIX
01230	0020	00	0	01240		TRA R28	
01231	0402	00	0	01346	R27F	SUB K11+12	L 10
01232	-0100	00	0	01236		TNZ R27G	
01233	0500	00	0	01525		CLA PR12+3	
01234	-0602	00	0	01507		ORS PR10+15	ROW 2 X MATRIX
01235	0020	00	0	01240		TRA R28	
01236	0500	00	0	01525	R27G	CLA PR12+3	
01237	-0602	00	0	01511		ORS PR10+17	ROW 1 X MATRIX
01240	0766	00	0	01361	R28	WPRA	
01241	0540	00	0	01533		RCHA CNTL3	PRINT-CNTRL 3RD LINE
							RETURN TO PROGRAM
01242	-0534	00	1	01255		LXD K-2,1	RESTORE INDEX COUNT
01243	0020	00	0	00000	P13	TRA	TO E3, E4, E5, OR E6
							TEST WORDS FOR COMPLEMENT
							CHECKERBOARD TEST
01244	+0000000000000				TEST1	OCT 0	
01245	-3777777777777				TEST2	OCT 7777777777777	
							TEST WORDS FOR ALL ZEROS TEST
01246	+0000000000000				ZEROS	OCT 0	
01247	+0000000000000					OCT 0	

TEST WORDS FOR ALL ONES TEST

01250	-377777777777	ONES	OCT	777777777777	
01251	-377777777777		OCT	777777777777	
01252	+000000000000	T1	OCT		TEST
01253	+000000000000	T2	OCT		PATTERN
01254	+000000000000	K0	OCT	0	
01255	+000000000000		OCT		INDEX COUNT
01256	+000000000000		OCT		TEMPORARY STORAGE
01257	+000000000002	K	OCT	2	COUNTER
01260	+000000000001		OCT	1	CONSTANTS
01261	+000000000002		OCT	2	CONSTANT
01262	+000000077777		OCT	77777	
01263	+000000000002		OCT	2	COUNTER
01264	+000004001777	M	OCT	00004001777	
01265	+000003000007		OCT	00003000007	
01266	+000027000030		OCT	27000030	
01267	+000020000010		OCT	000020000010	
01270	+000000002000	K1	OCT	2000	
01271	+000007000000		OCT	7000000	
01272	+000000020000	K2	OCT	20000	
01273	+000000040000		OCT	40000	
01274	+000000100000		OCT	100000	
01275	+000000200000		OCT	200000	
01276	+000000400000		OCT	400000	
01277	+000000000007	K3	OCT	7	
01300	+000000000070		OCT	70	
01301	+000000000700		OCT	700	
01302	+000000007000		OCT	7000	
01303	+000000070000		OCT	70000	
01304	-377777017777	K4	OCT	777777017777	
01305	+000037777777		OCT	37777777	
01306	-0602 00 1 01364	K5	ORS	PR1+12,1	ORS TO PR1+12,1
01307	+000000000000		OCT	0	TEMP STG.
01310	+000000000000		OCT	0	ERROR ADDRESS
01311	+000000077777	K10	OCT	77777	
01312	+000000074000		OCT	74000	
01313	+000000070000		OCT	70000	
01314	+000000064000		OCT	64000	
01315	+000000060000		OCT	60000	
01316	+000000054000		OCT	54000	
01317	+000000050000		OCT	50000	
01320	+000000044000		OCT	44000	
01321	+000000040000		OCT	40000	
01322	+000000034000		OCT	34000	
01323	+000000030000		OCT	30000	
01324	+000000024000		OCT	24000	
01325	+000000020000		OCT	20000	
01326	+000000014000		OCT	14000	
01327	+000000010000		OCT	10000	
01330	+000000004000		OCT	4000	
01331	+000000002000		OCT	2000	



01332	+000000001600	K11	OCT 1600
01333	+000000001400		OCT 1400
01334	+000000001200		OCT 1200
01335	+000000001000		OCT 1000
01336	+000000000600		OCT 600
01337	+000000000400		OCT 400
01340	+000000000200		OCT 200
01341	+000000000007		OCT 7
01342	+000000000004		OCT 4
01343	+000000000001		OCT 1
01344	+000000000770		OCT 770
01345	+000000000100		OCT 100
01346	+000000000010		OCT 10

01347	+000000000000	P6	OCT	ERROR ADDRESS
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PRINT IMAGE FOR FIRST  
 LINE

01350	+032040001504	PR1	OCT 32040001504	9 ROW LEFT
01351	+000000000000		OCT	9 ROW RIGHT
01352	+000000000000		OCT	8
01353	+000000000000		OCT	
01354	+000000000000		OCT	7
01355	+000000000000		OCT	
01356	+004000000230		OCT 4000000230	6
01357	+000000000000		OCT	
01360	+040020002000		OCT 40020002000	5
01361	+000000000000		OCT	
01362	+000300000002		OCT 300000002	4
01363	+000000000000		OCT	
01364	+000000000000		OCT	3
01365	+000000000000		OCT	
01366	+000014000000		OCT 14000000	2
01367	+000000000000		OCT	
01370	+000400000000		OCT 400000000	1
01371	+000000000000	PR4	OCT	ERROR WORD
01372	+000014000020		OCT 14000020	0
01373	+000000000000		OCT	COMPLEMENT OF ERROR WORD
01374	+036040001714		OCT 36040001714	11
01375	+000000000000		OCT	
01376	+040720002002		OCT 40720002002	12
01377	+000000000000		OCT	

PRINT IMAGE FOR SECOND  
 LINE

01400	+000000200004	PR2	OCT 200004	9
01401	+000000000000		OCT	
01402	+000000000000		OCT	8
01403	+000000000000		OCT	
01404	+000010000000		OCT 10000000	7
01405	+000000000000		OCT	
01406	+000000000030		OCT 30	6
01407	+000000000000		OCT	
01410	+000000500400		OCT 500400	5

01411	+000000000000		OCT		
01412	+000000000002		OCT	2	4
01413	+000000000000		OCT		
01414	+000003001100		OCT	3001100	3
01415	+000000000000		OCT		
01416	+000000000200		OCT	200	2
01417	+000000000000		OCT		
01420	+000004000000		OCT	4000000	1
01421	+000000000000	PR5	OCT		TEST WORD
01422	+000003001320		OCT	3001320	0
01423	+000000000000		OCT		COMPLEMENT OF TEST WORD
01424	+000010300014		OCT	10300014	11
01425	+000000000000		OCT		
01426	+000004400402		OCT	4400402	12
01427	+000000000000		OCT		

ERROR ADDRESSING FORM

01430	+000000000000	PR7	OCT		7
01431	+000000000000		OCT		6
01432	+000000000000		OCT		5
01433	+000000000000		OCT		4
01434	+000000000000		OCT		3
01435	+000000000000		OCT		2
01436	+000000000000		OCT		1
01437	+000000000000		OCT		0

ADDRESSING FORM FOR

01440	+052000000000	PR8	OCT	52000000000	9 INITIAL
01441	+000000000000		OCT		COMPLEMENT
01442	+000000000000		OCT		8
01443	+000000000000		OCT		
01444	+000000000000		OCT		7
01445	+004000000000		OCT	40000000000	
01446	+000000000000		OCT		6
01447	+020000000000		OCT	20000000000	
01450	+020000000000		OCT	20000000000	5
01451	+001300000000		OCT	13000000000	
01452	+000000000000		OCT		4
01453	+010400000000		OCT	10400000000	
01454	+004400000000		OCT	44000000000	3
01455	+042040000000		OCT	42040000000	
01456	+000000000000		OCT		2
01457	+000000000000		OCT		
01460	+001000000000		OCT	10000000000	1
01461	+000000000000		OCT		
01462	+004000000000		OCT	40000000000	0
01463	+000040000000		OCT	400000000	
01464	+020400000000		OCT	20400000000	11
01465	+036500000000		OCT	36500000000	
01466	+053000000000		OCT	53000000000	12
01467	+041200000000		OCT	41200000000	

01470	+010010040014	PR10	OCT	10010040014	9L
01471	-000000144000		OCT	400000144000	9R
01472	+000001001000		OCT	1001000	8
01473	+010000000100		OCT	10000000100	

01474	+0000000000002	OCT 2	7
01475	+000010020000	OCT 10020000	
01476	+204620100000	OCT 204620100000	6
01477	+301000003010	OCT 301000003010	
01500	+002000020000	OCT 2000020000	5
01501	+0000000000001	OCT 1	
01502	+0000000000100	OCT 100	4
01503	+000001000000	OCT 1000000	
01504	-120006200020	OCT 520006200020	3
01505	+012400200324	OCT 12400200324	
01506	+000040010400	OCT 40010400	2
01507	+000100000000	OCT 100000000	
01510	+040000000040	OCT 40000000040	1
01511	+020004400000	OCT 20004400000	
01512	+020064011022	OCT 20064011022	0
01513	+110010221100	OCT 110010221100	
01514	-206400144110	OCT 606400144110	11
01515	-201441106014	OCT 601441106014	
01516	+150213220044	OCT 150213220044	12
01517	+002000440020	OCT 2000440020	
01520	+000000000400	PR11 OCT 400	Y1, Y2, Y3, OR Y4
01521	-377777777377	OCT 777777777377	
01522	+020000000000	PR12 OCT 20000000000	ROW Y MATRIX
01523	+000100000000	OCT 100000000	COL Y MATRIX
01524	+000004000000	OCT 4000000	X1 OR X2
01525	+000000000200	OCT 200	ROW X MATRIX
01526	+000000000001	OCT 1	COL X MATRIX
01527	-357673777576	OCT 757673777576	

01530	-1 00003 0 00000	CNTL MON 0,0,3	
01531	0 00030 0 01350	CNTL1 PZE PR1,0,24	CNTRL PRINT 1ST LINE
01532	0 00030 0 01400	CNTL2 PZE PR2,0,24	CNTRL PRINT 2ND LINE
01533	0 00030 0 01470	CNTL3 PZE PR10,0,24	CNTRL PRINT 3RD LINE
01534	0760 00 0 00163	NPER SWT 3	
01535	0020 00 0 01537	TRA *+2	
01536	0020 00 0 00001	TRA AA	

01537	0766 00 0 01361	WPRA	
01540	0760 00 0 01363	SPRA 3	
01541	0540 00 0 01543	RCHA *+2	
01542	0020 00 0 00001	TRA AA	

01543	0000 30 0 01544	IOCD PNER,0,24	
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* PRINT -	NOW PERFORMING-9S05H-STORAGE TEST		
* IMAGE -	NOW PERFORMING-9S05H-STORAGE TEST		
01544	+000000045040	PNER OCT 000000045040	9 ROW LEFT
01545	+040000000000	OCT 040000000000	9 ROW RIGHT
01546	+000000000002	OCT 000000000002	8 L
01547	+000000000000	OCT 000000000000	8 R
01550	+000000200200	OCT 000000200200	7 L
01551	+010000000000	OCT 010000000000	7 R
01552	+000003030000	OCT 000003030000	6 L
01553	+100000000000	OCT 100000000000	6 R
01554	+000004100404	OCT 000004100404	5 L
01555	+004400000000	OCT 004400000000	5 R

01556	+000000002000	OCT	000000002000	4	L
01557	+000000000000	OCT	000000000000	4	R
01560	+000000000000	OCT	000000000000	3	L
01561	+201100000000	OCT	201100000000	3	R
01562	+000000000020	OCT	000000000020	2	L
01563	-000200000000	OCT	400200000000	2	R
01564	+000000000000	OCT	000000000000	1	L
01565	+020000000000	OCT	020000000000	1	R
01566	+000001000030	OCT	000001000030	0	L
01567	-201300000000	OCT	601300000000	0	R
01570	+000006256501	OCT	000006256501	11	L
01571	+140000000000	OCT	140000000000	11	R
01572	+000000121202	OCT	000000121202	12	L
01573	+034400000000	OCT	034400000000	12	R

\* PRINT -

PASS COMPLETE-9S05H-STORAGE TEST

\* IMAGE -

PASS COMPLETE-9S05H-STORAGE TEST

01574	+000000000010	PPER	OCT	000000000010	9	ROW	LEFT
01575	+010000000000		OCT	010000000000	9	ROW	RIGHT
01576	+000000000000		OCT	000000000000	8	L	
01577	-000000000000		OCT	400000000000	8	R	
01600	+000000401000		OCT	000000401000	7	L	
01601	+002000000000		OCT	002000000000	7	R	
01602	+000000004000		OCT	000000004000	6	L	
01603	+020000000000		OCT	020000000000	6	R	
01604	+000000000241		OCT	000000000241	5	L	
01605	+001100000000		OCT	001100000000	5	R	
01606	+000000002000		OCT	000000002000	4	L	
01607	+000000000000		OCT	000000000000	4	R	
01610	+000000010500		OCT	000000010500	3	L	
01611	+040220000000		OCT	040220000000	3	R	
01612	+000000140004		OCT	000000140004	2	L	
01613	+100040000000		OCT	100040000000	2	R	
01614	+000000200000		OCT	000000200000	1	L	
01615	+004000000000		OCT	004000000000	1	R	
01616	+000000140106		OCT	000000140106	0	L	
01617	+140260000000		OCT	140260000000	0	R	
01620	+000000407420		OCT	000000407420	11	L	
01621	+230000000000		OCT	230000000000	11	R	
01622	+000000210240		OCT	000000210240	12	L	
01623	-007100000000		OCT	407100000000	12	R	

00000

END

EOF\*

9S05 L

SECOND HALF OF TEST

				76100		ORG 31808		
76100	0020	00	0	77630		TRA NPER		TO PRINT IDENTIFICATION
76101	0760	00	0	00140	AA	SLF		TURN ALL SENSE LIGHTS OFF
76102	0760	00	0	00141		SLN 1		TURN SENSE LIGHT 1 ON TO INDICATE THAT THE LOW END OF MEMORY IS BEING TESTED
								ENTER COMPLEMENT CHECKERBOARD TEST
76103	0500	00	0	77343		CLA TEST1		
76104	0601	00	0	77351		STO T1		
76105	0500	00	0	77344		CLA TEST2		
76106	0601	00	0	77352		STO T2		
76107	0500	00	0	77360	AA1	CLA K+2	L +2	
76110	0601	00	0	77362		STO K+4		RESTORE COUNTER
76111	0020	00	0	76256		TRA E10A		REPEAT TEST
76112	0534	00	4	77365		LXA M+1,4	L +7	
76113	-0534	00	2	77364	A2	LXD M,2	L +4	
76114	0534	00	1	77364	A1	LXA M,1	L +2000	
76115	0500	00	0	77351		CLA T1		
76116	0601	00	1	02000	A	STO 1024,1		WRITE PATTERN
76117	0601	00	1	02001		STO 1025,1		
76120	0500	00	0	77352		CLA T2		
76121	0601	00	1	02002		STO 1026,1		
76122	0601	00	1	02003		STO 1027,1		
76123	2 00004	1		76115		TIX A-1,1,4		
76124	0500	00	0	76116		CLA A		
76125	0400	00	0	77370		ADD K1	L2000	
76126	0601	00	0	76116		STO A		
76127	0400	00	0	77357		ADD K+1	L+1	
76130	0601	00	0	76117		STO A+1		
76131	0400	00	0	77357		ADD K+1	L+1	
76132	0601	00	0	76121		STO A+3		
76133	0400	00	0	77357		ADD K+1	L+1	
76134	0601	00	0	76122		STO A+4		
76135	-3 00001	2		76143		TXL B,2,1		
76136	0560	00	0	77351		LDQ T1		
76137	0500	00	0	77352		CLA T2		REVERSE PATTERN FOR
76140	0601	00	0	77351		STO T1		NEXT BLOCK
76141	-0600	00	0	77352		STQ T2		
76142	2 00001	2		76114		TIX A1,2,1		
76143	2 00001	4		76113	B	TIX A2,4,1		REVERSE SECTION
76144	0500	00	0	77356	C	CLA K	L +2 OR +1---	ENTERING LAST SECTION
76145	0402	00	0	77357		SUB K+1	L+1	
76146	0100	00	0	76152		TZE D		START TESTING

PATTERN WRITTEN FROM  
00000 TO 757777

76147	0601	00	0	77356		STO K	
76150	-0534	00	2	77365		LXD M+1,2	L +3
76151	0020	00	0	76114		TRA A1	

TEST PATTERN

76152	0500	00	0	77360	D	CLA K+2	L+2
76153	0601	00	0	77356		STO K	RESTORE 2 COUNT
76154	0560	00	0	77351		LDQ T1	
76155	0500	00	0	77352		CLA T2	
76156	0601	00	0	77351		STO T1	SET INITIAL PATTERN
76157	-0600	00	0	77352		STQ T2	
76160	0534	00	4	77365		LXA M+1,4	L +7
76161	-0534	00	2	77364	E	LXD M,2	L +4
76162	0534	00	1	77364	E1	LXA M,1	L +2000
76163	0500	00	0	77351		CLA T1	
76164	0340	00	1	02000	E2	CAS 1024,1	
76165	0020	00	0	76345		TRA P	ERROR
76166	0020	00	0	76170		TRA E3	OK
76167	0020	00	0	76345		TRA P	ERROR
76170	0500	00	0	77352	E3	CLA T2	
76171	0601	00	1	02000		STO 1024,1	COMPLEMENT WORD
76172	0340	00	1	02000		CAS 1024,1	
76173	0020	00	0	76352		TRA P1	COMPLEMENT ERROR
76174	0020	00	0	76176		TRA E4	OK
76175	0020	00	0	76352		TRA P1	COMPLEMENT ERROR
76176	0500	00	0	77351	E4	CLA T1	
76177	0601	00	1	02000		STO 1024,1	RESTORE PATTERN
76200	0340	00	1	02001		CAS 1025,1	TEST NEXT WORD
76201	0020	00	0	76357		TRA P2	ERROR
76202	0020	00	0	76204		TRA E5	OK
76203	0020	00	0	76357		TRA P2	ERROR
76204	0500	00	0	77352	E5	CLA T2	
76205	0601	00	1	02001		STO 1025,1	COMPLEMENT WORD
76206	0340	00	1	02001		CAS 1025,1	
76207	0020	00	0	76371		TRA P3	COMPLEMENT ERROR
76210	0020	00	0	76212		TRA E6	
76211	0020	00	0	76371		TRA P3	COMPLEMENT ERROR
76212	0500	00	0	77351	E6	CLA T1	
76213	0601	00	1	02001		STO 1025,1	RESTORE WORD
76214	-3 00001	1		76222		TXL E7,1,1	
76215	0560	00	0	77351		LDQ T1	
76216	0500	00	0	77352		CLA T2	REVERSE PATTERN
76217	0601	00	0	77351		STO T1	
76220	-0600	00	0	77352		STQ T2	
76221	2 00002	1		76164		TIX E2,1,2	
76222	0500	00	0	76164	E7	CLA E2	BLOCK REVERSAL

76223	0400	00	0	77370		ADD K1	L +2000
76224	0621	00	0	76164		STA E2	
76225	0621	00	0	76171		STA E3+1	
76226	0621	00	0	76172		STA E3+2	READJUST ADDRESS
76227	0621	00	0	76177		STA E4+1	
76230	0400	00	0	77357		ADD K+1	L+1
76231	0621	00	0	76200		STA E4+2	
76232	0621	00	0	76205		STA E5+1	
76233	0621	00	0	76206		STA E5+2	
76234	0621	00	0	76213		STA E6+1	
76235	-3	00001	2	76243		TXL E9,2,1	
76236	0560	00	0	77351		LDQ T1	REVERSE PATTERN FOR NEXT
76237	0500	00	0	77352		CLA T2	BLOCK
76240	0601	00	0	77351		STO T1	
76241	-0600	00	0	77352		STQ T2	
76242	2	00001	2	76162		TIX E1,2,1	
76243	2	00001	4	76161	E9	TIX E,4,1	REVERSE SECTION
76244	0500	00	0	77356		CLA K	L +2 OR +1---ENTERING
							LAST SECTION
76245	0402	00	0	77357		SUB K+1	L +1
76246	0100	00	0	76252		TZE E10	TESTING COMPLETE
76247	0601	00	0	77356		STO K	
76250	-0534	00	2	77365		LXD M+1,2	L +3
76251	0020	00	0	76162		TRA E1	
76252	0500	00	0	77362	E10	CLA K+4	L COUNTER
76253	0402	00	0	77357		SUB K+1	L +1
76254	0100	00	0	76303		TZE E11	PASS COMPLETED
76255	0601	00	0	77362		STO K+4	
76256	0500	00	0	77360	E10A	CLA K+2	L +2
76257	0601	00	0	77356		STO K	RESTORE 2 COUNT
76260	0500	00	0	77361		CLA K+3	L STO 1024,1
76261	0601	00	0	76116		STO A	RESTORE INITIAL VALUES
76262	0601	00	0	76171		STO E3+1	
76263	0601	00	0	76177		STO E4+1	
76264	0400	00	0	77357		ADD K+1	L +1
76265	0601	00	0	76117		STO A+1	
76266	0601	00	0	76205		STO E5+1	
76267	0601	00	0	76213		STO E6+1	
76270	0400	00	0	77357		ADD K+1	L +1
76271	0601	00	0	76121		STO A+3	
76272	0400	00	0	77357		ADD K+1	L +1
76273	0601	00	0	76122		STO A+4	
76274	0500	00	0	77363		CLA K+5	L CAS 1024,1
76275	0601	00	0	76164		STO E2	
76276	0601	00	0	76172		STO E3+2	
76277	0400	00	0	77357		ADD K+1	L +1
76300	0601	00	0	76200		STO E4+2	
76301	0601	00	0	76206		STO E5+2	
76302	0020	00	0	76112		TRA A2-1	WRITE INVERSE PATTERN



76303	0760	00	0	00161	E11	SWT 1	TEST SENSE SWITCH 1
76304	0020	00	0	76306		TRA E11+3	GO TO NEXT TEST
76305	0020	00	0	76107		TRA AA1	LOOP IN PRESENT TEST
76306	-0760	00	0	00142		SLT 2	TEST SENSE LIGHT 2
76307	0020	00	0	76316		TRA E11A	OFF - TEST LIGHT 3
							JUST COMPLETED ALL ZEROS TEST
76310	0760	00	0	00143		SLN 3	TURN ON SENSE LIGHT 3
76311	0500	00	0	77347		CLA ONES	
76312	0601	00	0	77351		STO T1	
76313	0500	00	0	77350		CLA ONES+1	
76314	0601	00	0	77352		STO T2	
76315	0020	00	0	76107		TRA AA1	ENTER ALL ONES TEST
76316	-0760	00	0	00143	E11A	SLT 3	TEST SENSE LIGHT 3
76317	0020	00	0	76337		TRA E11B	OFF - ENTER ZEROS TEST
76320	0760	00	0	00163	PCOM	SWT 3	
76321	0020	00	0	76323		TRA *+2	
76322	0020	00	0	76330		TRA SW6	
76323	0766	00	0	01361		WPRA	TO PRINT PASS COMPLETE
76324	0760	00	0	01363		SPRA 3	
76325	0540	00	0	76327		RCHA *+2	
76326	0020	00	0	76330		TRA SW6	
76327	0000	30	0	77670		IOCD PPER,0,24	
76330	0760	00	0	00166	SW6	SWT 6	TEST SWITCH 6
76331	0020	00	0	76333		TRA *+2	UP-READ NEXT PROGRAM
76332	0020	00	0	76101		TRA AA	REPEAT TEST
76333	0762	00	0	01321		RCDA	READ IN NEXT TEST
76334	0540	00	0	77720		RCHA CNTL	
76335	0544	00	0	00000		LCHA 0	
76336	0020	00	0	00001		TRA 1	
76337	0760	00	0	00142	E11B	SLN 2	TURN ON SENSE LIGHT 2
76340	0500	00	0	77345		CLA ZEROS	
76341	0601	00	0	77351		STO T1	
76342	0500	00	0	77346		CLA ZEROS+1	
76343	0601	00	0	77352		STO T2	
76344	0020	00	0	76107		TRA AA1	ENTER ALL ZEROS TEST
							ERROR ROUTINES
76345	0500	00	0	76164	P	CLA E2	ERROR
76346	0621	00	0	77355		STA K-1	
76347	0500	00	0	76166		CLA E2+2	L TRA E3
76350	0601	00	0	77342		STO P13	PROGRAM RETURN
76351	0020	00	0	76363		TRA P2+4	
76352	0500	00	0	76172	P1	CLA E3+2	COMPLEMENT ERROR
76353	0621	00	0	77355		STA K-1	
76354	0500	00	0	76174		CLA E3+4	L TRA E4

76355	0601	00	0	77342		STO P13	PROGRAM RETURN
76356	0020	00	0	76375		TRA P3+4	
76357	0500	00	0	76200	P2	CLA E4+2	ERROR
76360	0621	00	0	77355		STA K-1	
76361	0500	00	0	76202		CLA E4+4	L TRA E5
76362	0601	00	0	77342		STO P13	PROGRAM RETURN
76363	-0500	00	0	77351		CAL T1	TEST WORD
76364	0602	00	0	77521		SLW PR5	
76365	0760	00	0	00006		COM	
76366	0602	00	0	77523		SLW PR5+2	COMPLEMENT OF TEST WORD
76367	0500	00	0	77353		CLA K0	L +0---INITIAL PATTERN
76370	0020	00	0	76402		TRA P3A	
76371	0500	00	0	76206	P3	CLA E5+2	COMPLEMENT ERROR
76372	0621	00	0	77355		STA K-1	
76373	0500	00	0	76210		CLA E5+4	L TRA E6
76374	0601	00	0	77342		STO P13	PROGRAM RETURN
76375	-0500	00	0	77352		CAL T2	TEST WORD
76376	0602	00	0	77521		SLW PR5	
76377	0760	00	0	00006		COM	
76400	0602	00	0	77523		SLW PR5+2	COMPLEMENT OF TEST WORD
76401	0500	00	0	77371		CLA K1+1	L +7000000
76402	0601	00	0	77447	P3A	STO P6	INITIAL OR COMPLEMENT
76403	-0754	00	1	00000		PXD 0,1	
76404	0765	00	0	00022		LRS 18	
76405	0402	00	0	77355		SUB K-1	
76406	0621	00	0	76410		STA P3A+6	ADDRESS OF ERROR WORD
76407	0621	00	0	77447		STA P6	
76410	-0500	00	0	00000		CAL	ERROR WORD
76411	0602	00	0	77471		SLW PR4	
76412	0760	00	0	00006		COM	
76413	0602	00	0	77473		SLW PR4+2	COMPLEMENT OF ERROR WORD
76414	0760	00	0	00162	P10	SWT 2	TEST SENSE SWITCH 2
76415	0020	00	0	76417		TRA P10+3	INDICATE ERROR
76416	0020	00	0	77342		TRA P13	BYPASS ERROR
76417	0760	00	0	00163		SWT 3	TEST SENSE SWITCH 3
76420	0020	00	0	76424		TRA E13	PRINT
76421	0560	00	0	77447		LDQ P6	ERROR ADDRESS
76422	0500	00	0	77471		CLA PR4	ERROR WORD
76423	0000	00	0	77342		HTR P13	PROGRAM RETURN
76424	-0634	00	1	77354	E13	SXD K-2,1	PRINT ERROR
76425	0534	00	1	77367		LXA M+3,1	L +10
76426	0600	00	1	77540		STZ PR7+8,1	
76427	2 00001	1	1	76426		TIX E13+2,1,1	
76430	0500	00	0	77377		CLA K3	L +7

76431	-0320	00	0	77447	ANA P6	L ERROR ADDRESS
76432	0734	00	1	00000	PAX 0,1	
76433	0500	00	0	77372	CLA K2	L 20000
76434	-0602	00	1	77537	ORS PR7+7,1	
76435	0500	00	0	77400	CLA K3+1	L +70
76436	-0320	00	0	77447	ANA P6	L ERROR ADDRESS
76437	0771	00	0	00003	ARS 3	
76440	0734	00	1	00000	PAX 0,1	
76441	0500	00	0	77373	CLA K2+1	L 40000
76442	-0602	00	1	77537	ORS PR7+7,1	
76443	0500	00	0	77401	CLA K3+2	L +700
76444	-0320	00	0	77447	ANA P6	L ERROR ADDRESS
76445	0771	00	0	00006	ARS 6	
76446	0734	00	1	00000	PAX 0,1	
76447	0500	00	0	77374	CLA K2+2	L 100000
76450	-0602	00	1	77537	ORS PR7+7,1	
76451	0500	00	0	77402	CLA K3+3	L +7000
76452	-0320	00	0	77447	ANA P6	L ERROR ADDRESS
76453	0771	00	0	00011	ARS 9	
76454	0734	00	1	00000	PAX 0,1	
76455	0500	00	0	77375	CLA K2+3	L 200000
76456	-0602	00	1	77537	ORS PR7+7,1	
76457	0500	00	0	77403	CLA K3+4	L +70000
76460	-0320	00	0	77447	ANA P6	L ERROR ADDRESS
76461	0771	00	0	00014	ARS 12	
76462	0734	00	1	00000	PAX 0,1	
76463	0500	00	0	77376	CLA K2+4	L 400000
76464	-0602	00	1	77537	ORS PR7+7,1	
76465	-0534	00	1	77366	LXD M+2,1	L +27
76466	0500	00	0	77404	CLA K4	L +777777017777
76467	0320	00	1	77477	P10AA ANS PR4+6,1	
76470	2	00002	1	76467	TIX P10AA,1,2	
76471	-0534	00	1	77366	LXD M+2,1	L +27
76472	0500	00	0	77405	CLA K4+1	L 37777777
76473	0320	00	1	77527	P10AB ANS PR5+6,1	
76474	2	00002	1	76473	TIX P10AB,1,2	
76475	0500	00	0	77406	CLA K5	
76476	0601	00	0	76501	STO P10A	
76477	0534	00	1	77367	LXA M+3,1	L +10
76500	0500	00	1	77540	CLA PR7+8,1	
76501	-0602	00	1	77464	P10A ORS PR1+12,1	
76502	0500	00	0	76501	CLA P10A	
76503	0402	00	0	77357	SUB K+1	L -1
76504	0621	00	0	76501	STA P10A	
76505	2	00001	1	76500	TIX P10A-1,1,1	
76506	0534	00	1	77366	LXA M+2,1	L +30
76507	0500	00	0	77371	CLA K1+1	L 7000000
76510	-0320	00	0	77447	ANA P6	L ERROR ADDRESS
76511	-0100	00	0	76516	TNZ PP1	COMPLEMENT PATTERN

76512	0500	00	1	77570	PP	CLA PR8+24,1	INITIAL PATTERN
76513	-0602	00	1	77530		ORS PR2+24,1	
76514	2 00002	1	76512			TIX PP,1,2	
76515	0020	00	0	76521		TRA PP1+3	
76516	0500	00	1	77571	PP1	CLA PR8+25,1	COMPLEMENT
76517	-0602	00	1	77530		ORS PR2+24,1	
76520	2 00002	1	76516			TIX PP1,1,2	
76521	0766	00	0	01361		WPRA	PRINT FIRST LINE
76522	0760	00	0	01363		SPRA 3	DOUBLE SPACE
76523	0760	00	0	01364		SPRA 4	TO GET OCTAL SPACING
76524	0540	00	0	77721		RCHA CNTL1	L CONTROL FIRST LINE
76525	0766	00	0	01361		WPRA	PRINT SECOND LINE
76526	0760	00	0	01364		SPRA 4	TO GET OCTAL SPACING
76527	0540	00	0	77722		RCHA CNTL2	L CONTROL SECOND LINE
76530	-0500	00	0	77621		CAL PR11+1	L 777777777377
76531	0320	00	0	77602		ANS PR10+10	
76532	0320	00	0	77604		ANS PR10+12	RESET PRINT IMAGE
76533	0320	00	0	77606		ANS PR10+14	
76534	0320	00	0	77610		ANS PR10+16	
76535	-0500	00	0	77627		CAL PR12+5	L 757673777576
76536	-0534	00	1	77367		LXD M+3,1	L 20
76537	0320	00	1	77613	P12A	ANS PR10+19,1	RESET PRINT IMAGE
76540	2 00002	1	76537			TIX P12A,1,2	
76541	0500	00	0	77411		CLA K10	L +77777
76542	-0320	00	0	77447		ANA P6	ERROR ADDRESS
76543	0601	00	0	77410		STO K10-1	SAVE ADDRESS
76544	0340	00	0	77421		CAS K10+8	L +40000
76545	0020	00	0	76757		TRA Y3	3RD OR 4TH QUADRANT
76546	0020	00	0	76757		TRA Y3	1ST OT 2ND QUADRANT
76547	0340	00	0	77425		CAS K10+12	L +20000
76550	0020	00	0	76553		TRA Y1	1ST 4 COLUMNS
76551	0020	00	0	76553		TRA Y1	
76552	0020	00	0	76565		TRA Y112	LAST 4 COLUMNS Y1 OR Y2
76553	0340	00	0	77422	Y1	CAS K10+9	L +34000
76554	0020	00	0	76577		TRA R1A	COLUMN 1
76555	0020	00	0	76577		TRA R1A	
76556	0340	00	0	77423		CAS K10+10	L +30000
76557	0020	00	0	76604		TRA R2A	COLUMN 2
76560	0020	00	0	76604		TRA R2A	
76561	0340	00	0	77424		CAS K10+11	L +24000
76562	0020	00	0	76611		TRA R3A	COLUMN 3
76563	0020	00	0	76611		TRA R3A	
76564	0020	00	0	76616		TRA R4A	COLUMN 4
76565	0340	00	0	77426	Y112	CAS K10+13	L +14000
76566	0020	00	0	76623		TRA R5A	COLUMN 5
76567	0020	00	0	76623		TRA R5A	

76570	0340	00	0	77427		CAS K10+14	L +10000
76571	0020	00	0	76630		TRA R6A	COLUMN 6
76572	0020	00	0	76630		TRA R6A	
76573	0340	00	0	77430		CAS K10+15	L +4000
76574	0020	00	0	76635		TRA R7A	COLUMN 7
76575	0020	00	0	76635		TRA R7A	
76576	0020	00	0	76642		TRA R8A	COLUMN 8
76577	0500	00	0	77623	R1A	CLA PR12+1	
76600	-0602	00	0	77611		ORS PR10+17	COL 1 Y MATRIX
76601	0500	00	0	77410		CLA K10-1	
76602	0402	00	0	77422		SUB K10+9	L 34000
76603	0020	00	0	76645		TRA R9	
76604	0500	00	0	77623	R2A	CLA PR12+1	
76605	-0602	00	0	77607		ORS PR10+15	COL 2 Y MATRIX
76606	0500	00	0	77410		CLA K10-1	
76607	0402	00	0	77423		SUB K10+10	L 30000
76610	0020	00	0	76645		TRA R9	
76611	0500	00	0	77623	R3A	CLA PR12+1	
76612	-0602	00	0	77605		ORS PR10+13	COL 3 Y MATRIX
76613	0500	00	0	77410		CLA K10-1	
76614	0402	00	0	77424		SUB K10+11	L 24000
76615	0020	00	0	76645		TRA R9	
76616	0500	00	0	77623	R4A	CLA PR12+1	
76617	-0602	00	0	77603		ORS PR10+11	COL 4 Y MATRIX
76620	0500	00	0	77410		CLA K10-1	
76621	0402	00	0	77425		SUB K10+12	L 20000
76622	0020	00	0	76645		TRA R9	
76623	0500	00	0	77623	R5A	CLA PR12+1	
76624	-0602	00	0	77601		ORS PR10+9	COL 5 Y MATRIX
76625	0500	00	0	77410		CLA K10-1	
76626	0402	00	0	77426		SUB K10+13	L 14000
76627	0020	00	0	76645		TRA R9	
76630	0500	00	0	77623	R6A	CLA PR12+1	
76631	-0602	00	0	77577		ORS PR10+7	COL 6 Y MATRIX
76632	0500	00	0	77410		CLA K10-1	
76633	0402	00	0	77427		SUB K10+14	L 10000
76634	0020	00	0	76645		TRA R9	
76635	0500	00	0	77623	R7A	CLA PR12+1	
76636	-0602	00	0	77575		ORS PR10+5	COL 7 Y MATRIX
76637	0500	00	0	77410		CLA K10-1	
76640	0402	00	0	77430		SUB K10+15	L 4000
76641	0020	00	0	76645		TRA R9	
76642	0500	00	0	77623	R8A	CLA PR12+1	
76643	-0602	00	0	77573		ORS PR10+3	COL 8 Y MATRIX
76644	0500	00	0	77410		CLA K10-1	
76645	0601	00	0	77407	R9	STO K10-2	
76646	0340	00	0	77431		CAS K10+16	L 2000

76647	0020	00	0	76655		TRA R10	
76650	0020	00	0	76655		TRA R10	
76651	0500	00	0	77620		CLA PR11	
76652	-0602	00	0	77610		ORS PR10+16	Y1 MATRIX
76653	0500	00	0	77407		CLA K10-2	
76654	0020	00	0	76661		TRA R13A	
76655	0500	00	0	77620	R10	CLA PR11	
76656	-0602	00	0	77606		ORS PR10+14	Y2 MATRIX
76657	0500	00	0	77407		CLA K10-2	
76660	0402	00	0	77431		SUB K10+16	L 2000
76661	0340	00	0	77435	R13A	CAS K11+3	L 1000
76662	0020	00	0	76676		TRA R14A	1ST FOUR ROWS
76663	0020	00	0	76676		TRA R14A	
76664	0340	00	0	77436		CAS K11+4	L 600
76665	0020	00	0	76710		TRA R15A	ROW 5
76666	0020	00	0	76710		TRA R15A	
76667	0340	00	0	77437		CAS K11+5	L 400
76670	0020	00	0	76715		TRA R16A	ROW 6
76671	0020	00	0	76715		TRA R16A	
76672	0340	00	0	77440		CAS K11+6	L 200
76673	0020	00	0	76722		TRA R17A	ROW 7
76674	0020	00	0	76722		TRA R17A	
76675	0020	00	0	76727		TRA R18A	ROW 8
76676	0340	00	0	77432	R14A	CAS K11	L 1600
76677	0020	00	0	76733		TRA R19A	ROW 1
76700	0020	00	0	76733		TRA R19A	
76701	0340	00	0	77433		CAS K11+1	L 1400
76702	0020	00	0	76740		TRA R20A	ROW 2
76703	0020	00	0	76740		TRA R20A	
76704	0340	00	0	77434		CAS K11+2	L 1200
76705	0020	00	0	76745		TRA R21A	ROW 3
76706	0020	00	0	76745		TRA R21A	
76707	0020	00	0	76752		TRA R22A	ROW 4
76710	0500	00	0	77622	R15A	CLA PR12	
76711	-0602	00	0	77601		ORS PR10+9	ROW 5 Y MATRIX
76712	0500	00	0	77407		CLA K10-2	
76713	0402	00	0	77436		SUB K11+4	L 600
76714	0020	00	0	77170		TRA R23	
76715	0500	00	0	77622	R16A	CLA PR12	
76716	-0602	00	0	77577		ORS PR10+7	ROW 6 Y MATRIX
76717	0500	00	0	77407		CLA K10-2	
76720	0402	00	0	77437		SUB K11+5	L 400
76721	0020	00	0	77170		TRA R23	
76722	0500	00	0	77622	R17A	CLA PR12	
76723	-0602	00	0	77575		ORS PR10+5	ROW 7 Y MATRIX
76724	0500	00	0	77407		CLA K10-2	
76725	0402	00	0	77440		SUB K11+6	L 200
76726	0020	00	0	77170		TRA R23	
76727	0500	00	0	77622	R18A	CLA PR12	

76730	-0602	00	0	77573		ORS PR10+3	ROW 8 Y MATRIX
76731	0500	00	0	77407		CLA K10-2	
76732	0020	00	0	77170		TRA R23	
76733	0500	00	0	77622	R19A	CLA PR12	
76734	-0602	00	0	77611		ORS PR10+17	ROW 1 Y MATRIX
76735	0500	00	0	77407		CLA K10-2	
76736	0402	00	0	77432		SUB K11	L 1600
76737	0020	00	0	77170		TRA R23	
76740	0500	00	0	77622	R20A	CLA PR12	
76741	-0602	00	0	77607		ORS PR10+15	ROW 2 Y MATRIX
76742	0500	00	0	77407		CLA K10-2	
76743	0402	00	0	77433		SUB K11+1	L 1400
76744	0020	00	0	77170		TRA R23	
76745	0500	00	0	77622	R21A	CLA PR12	
76746	-0602	00	0	77605		ORS PR10+13	ROW 3 Y MATRIX
76747	0500	00	0	77407		CLA K10-2	
76750	0402	00	0	77434		SUB K11+2	L 1200
76751	0020	00	0	77170		TRA R23	
76752	0500	00	0	77622	R22A	CLA PR12	
76753	-0602	00	0	77603		ORS PR10+11	ROW 4 Y MATRIX
76754	0500	00	0	77407		CLA K10-2	
76755	0402	00	0	77435		SUB K11+3	L 1200
76756	0020	00	0	77170		TRA R23	
76757	0340	00	0	77415	Y3	CAS K10+4	L +60000
76760	0020	00	0	76763		TRA Y3+4	Y3 OR Y4 1ST 4 COLUMNS
76761	0020	00	0	76763		TRA Y3+4	
76762	0020	00	0	76775		TRA Y312	Y3 OR Y4 LAST 4 COLUMNS
76763	0340	00	0	77412		CAS K10+1	L +74000
76764	0020	00	0	77007		TRA R1B	COLUMN 1
76765	0020	00	0	77007		TRA R1B	
76766	0340	00	0	77413		CAS K10+2	L +70000
76767	0020	00	0	77014		TRA R2B	COLUMN 2
76770	0020	00	0	77014		TRA R2B	
76771	0340	00	0	77414		CAS K10+3	L +64000
76772	0020	00	0	77021		TRA R3B	COLUMN 3
76773	0020	00	0	77021		TRA R3B	
76774	0020	00	0	77026		TRA R4B	COLUMN 4
76775	0340	00	0	77416	Y312	CAS K10+5	L +54000
76776	0020	00	0	77033		TRA R5B	COLUMN 5
76777	0020	00	0	77033		TRA R5B	
77000	0340	00	0	77417		CAS K10+6	L +50000
77001	0020	00	0	77040		TRA R6B	COLUMN 6
77002	0020	00	0	77040		TRA R6B	
77003	0340	00	0	77420		CAS K10+7	L +44000
77004	0020	00	0	77045		TRA R7B	COLUMN 7
77005	0020	00	0	77045		TRA R7B	
77006	0020	00	0	77052		TRA R8B	COLUMN 8
77007	0500	00	0	77623	R1B	CLA PR12+1	

77010	-0602	00	0	77611		ORS PR10+17	COL 1 Y MATRIX
77011	0500	00	0	77410		CLA K10-1	
77012	0402	00	0	77412		SUB K10+1	L 74000
77013	0020	00	0	77057		TRA R11	
77014	0500	00	0	77623	R2B	CLA PR12+1	
77015	-0602	00	0	77607		ORS PR10+15	COL 2 Y MATRIX
77016	0500	00	0	77410		CLA K10-1	
77017	0402	00	0	77413		SUB K10+2	L 70000
77020	0020	00	0	77057		TRA R11	
77021	0500	00	0	77623	R3B	CLA PR12+1	
77022	-0602	00	0	77605		ORS PR10+13	COL 3 Y MATRIX
77023	0500	00	0	77410		CLA K10-1	
77024	0402	00	0	77414		SUB K10+3	L 64000
77025	0020	00	0	77057		TRA R11	
77026	0500	00	0	77623	R4B	CLA PR12+1	
77027	-0602	00	0	77603		ORS PR10+11	COL 4 Y MATRIX
77030	0500	00	0	77410		CLA K10-1	
77031	0402	00	0	77415		SUB K10+4	L 60000
77032	0020	00	0	77057		TRA R11	
77033	0500	00	0	77623	R5B	CLA PR12+1	
77034	-0602	00	0	77601		ORS PR10+9	COL 5 Y MATRIX
77035	0500	00	0	77410		CLA K10-1	
77036	0402	00	0	77416		SUB K10+5	L 54000
77037	0020	00	0	77057		TRA R11	
77040	0500	00	0	77623	R6B	CLA PR12+1	
77041	-0602	00	0	77577		ORS PR10+7	COL 6 Y MATRIX
77042	0500	00	0	77410		CLA K10-1	
77043	0402	00	0	77417		SUB K10+6	L 50000
77044	0020	00	0	77057		TRA R11	
77045	0500	00	0	77623	R7B	CLA PR12+1	
77046	-0602	00	0	77575		ORS PR10+5	COL 7 Y MATRIX
77047	0500	00	0	77410		CLA K10-1	
77050	0402	00	0	77420		SUB K10+7	L 44000
77051	0020	00	0	77057		TRA R11	
77052	0500	00	0	77623	R8B	CLA PR12+1	
77053	-0602	00	0	77573		ORS PR10+3	COL 8 Y MATRIX
77054	0500	00	0	77410		CLA K10-1	
77055	0402	00	0	77421		SUB K10+8	L 40000
77056	0020	00	0	77057		TRA R11	
77057	0601	00	0	77407	R11	STO K10-2	
77060	0340	00	0	77431		CAS K10+16	L 2000
77061	0020	00	0	77067		TRA R12	
77062	0020	00	0	77067		TRA R12	
77063	0500	00	0	77620		CLA PR11	
77064	-0602	00	0	77604		ORS PR10+12	Y3 MATRIX
77065	0500	00	0	77407		CLA K10-2	
77066	0020	00	0	77073		TRA R13B	



77067	0500	00	0	77620	R12	CLA PR11	
77070	-0602	00	0	77602		ORS PR10+10	Y4 MATRIX
77071	0500	00	0	77407		CLA K10-2	
77072	0402	00	0	77431		SUB K10+16	L 2000
77073	0340	00	0	77435	R13B	CAS K11+3	L 1000
77074	0020	00	0	77110		TRA R14B	LAST FOUR ROWS
77075	0020	00	0	77110		TRA R14B	
77076	0340	00	0	77436		CAS K11+4	L 600
77077	0020	00	0	77122		TRA R15B	ROW 4
77100	0020	00	0	77122		TRA R15B	
77101	0340	00	0	77437		CAS K11+5	L 400
77102	0020	00	0	77127		TRA R16B	ROW 3
77103	0020	00	0	77127		TRA R16B	
77104	0340	00	0	77440		CAS K11+6	L 200
77105	0020	00	0	77134		TRA R17B	ROW 2
77106	0020	00	0	77134		TRA R17B	
77107	0020	00	0	77141		TRA R18B	ROW 1
77110	0340	00	0	77432	R14B	CAS K11	L 1600
77111	0020	00	0	77145		TRA R19B	ROW 8
77112	0020	00	0	77145		TRA R19B	
77113	0340	00	0	77433		CAS K11+1	L 1400
77114	0020	00	0	77152		TRA R20B	ROW 7
77115	0020	00	0	77152		TRA R20B	
77116	0340	00	0	77434		CAS K11+2	L 1200
77117	0020	00	0	77157		TRA R21B	ROW 6
77120	0020	00	0	77157		TRA R21B	
77121	0020	00	0	77164		TRA R22B	ROW 5
77122	0500	00	0	77622	R15B	CLA PR12	
77123	-0602	00	0	77603		ORS PR10+11	ROW 4 Y MATRIX
77124	0500	00	0	77407		CLA K10-2	
77125	0402	00	0	77436		SUB K11+4	L 600
77126	0020	00	0	77170		TRA R23	
77127	0500	00	0	77622	R16B	CLA PR12	
77130	-0602	00	0	77605		ORS PR10+13	ROW 3 Y MATRIX
77131	0500	00	0	77407		CLA K10-2	
77132	0402	00	0	77437		SUB K11+5	L 400
77133	0020	00	0	77170		TRA R23	
77134	0500	00	0	77622	R17B	CLA PR12	
77135	-0602	00	0	77607		ORS PR10+15	ROW 2 Y MATRIX
77136	0500	00	0	77407		CLA K10-2	
77137	0402	00	0	77440		SUB K11+6	L 200
77140	0020	00	0	77170		TRA R23	
77141	0500	00	0	77622	R18B	CLA PR12	
77142	-0602	00	0	77611		ORS PR10+17	ROW 1 Y MATRIX
77143	0500	00	0	77407		CLA K10-2	
77144	0020	00	0	77170		TRA R23	
77145	0500	00	0	77622	R19B	CLA PR12	
77146	-0602	00	0	77573		ORS PR10+3	ROW 8 Y MATRIX
77147	0500	00	0	77407		CLA K10-2	

77150	0402	00	0	77432		SUB K11	L 1600
77151	0020	00	0	77170		TRA R23	
77152	0500	00	0	77622	R20B	CLA PR12	
77153	-0602	00	0	77575		ORS PR10+5	ROW 7 Y MATRIX
77154	0500	00	0	77407		CLA K10-2	
77155	0402	00	0	77433		SUB K11+1	L 1400
77156	0020	00	0	77170		TRA R23	
77157	0500	00	0	77622	R21B	CLA PR12	
77160	-0602	00	0	77577		ORS PR10+7	ROW 6 Y MATRIX
77161	0500	00	0	77407		CLA K10-2	
77162	0402	00	0	77434		SUB K11+2	L 1200
77163	0020	00	0	77170		TRA R23	
77164	0500	00	0	77622	R22B	CLA PR12	
77165	-0602	00	0	77601		ORS PR10+9	ROW 5 Y MATRIX
77166	0500	00	0	77407		CLA K10-2	
77167	0402	00	0	77435		SUB K11+3	L 1200
77170	0601	00	0	77407	R23	STO K10-2	
77171	-0320	00	0	77441		ANA K11+7	L7
77172	0340	00	0	77442		CAS K11+8	L4
77173	0020	00	0	77216		TRA R24D	1ST 4 COLUMNS
77174	0020	00	0	77216		TRA R24D	
77175	-0100	00	0	77201		TNZ R24A	
77176	0500	00	0	77626		CLA PR12+4	
77177	-0602	00	0	77573		ORS PR10+3	COLUMN 8 X MATRIX
77200	0020	00	0	77237		TRA R25	
77201	0402	00	0	77443	R24A	SUB K11+9	L1
77202	-0100	00	0	77206		TNZ R24B	
77203	0500	00	0	77626		CLA PR12+4	
77204	-0602	00	0	77575		ORS PR10+5	COLUMN 7 X MATRIX
77205	0020	00	0	77237		TRA R25	
77206	0402	00	0	77443	R24B	SUB K11+9	L1
77207	-0100	00	0	77213		TNZ R24C	
77210	0500	00	0	77626		CLA PR12+4	
77211	-0602	00	0	77577		ORS PR10+7	COLUMN 6 X MATRIX
77212	0020	00	0	77237		TRA R25	
77213	0500	00	0	77626	R24C	CLA PR12+4	
77214	-0602	00	0	77601		ORS PR10+9	COLUMN 5 X MATRIX
77215	0020	00	0	77237		TRA R25	
77216	0402	00	0	77442	R24D	SUB K11+8	L4
77217	-0100	00	0	77223		TNZ R24E	
77220	0500	00	0	77626		CLA PR12+4	
77221	-0602	00	0	77603		ORS PR10+11	COLUMN 4 X MATRIX
77222	0020	00	0	77237		TRA R25	
77223	0402	00	0	77443	R24E	SUB K11+9	L1
77224	-0100	00	0	77230		TNZ R24F	
77225	0500	00	0	77626		CLA PR12+4	

77226	-0602	00	0	77605	ORS	PR10+13	COLUMN 3 X MATRIX
77227	0020	00	0	77237	TRA	R25	
77230	0402	00	0	77443	R24F	SUB K11+9	L1
77231	-0100	00	0	77235	TNZ	R24G	
77232	0500	00	0	77626	CLA	PR12+4	
77233	-0602	00	0	77607	ORS	PR10+15	COLUMN 2 X MATRIX
77234	0020	00	0	77237	TRA	R25	
77235	0500	00	0	77626	R24G	CLA PR12+4	
77236	-0602	00	0	77611	ORS	PR10+17	COLUMN 1 X MATRIX
77237	0500	00	0	77407	R25	CLA K10-2	
77240	-0320	00	0	77444	ANA	K11+10	L 770
77241	0601	00	0	77407	STO	K10-2	TEMP STORAGE
77242	0340	00	0	77445	CAS	K11+11	L 100
77243	0020	00	0	77250	TRA	R26	X2 MATRIX
77244	0020	00	0	77250	TRA	R26	
77245	0500	00	0	77624	CLA	PR12+2	
77246	-0602	00	0	77611	ORS	PR10+17	X 1 MATRIX
77247	0020	00	0	77272	TRA	R27	
77250	0500	00	0	77624	R26	CLA PR12+2	
77251	-0602	00	0	77607	ORS	PR10+15	X 2 MATRIX
77252	0500	00	0	77407	CLA	K10-2	
77253	0402	00	0	77445	SUB	K11+11	L 100
77254	0100	00	0	77335	TZE	R27G	ROW 1 X2 MATRIX
77255	0402	00	0	77446	SUB	K11+12	L 10
77256	0100	00	0	77332	TZE	R27F+2	ROW 2 X2
77257	0402	00	0	77446	SUB	K11+12	
77260	0100	00	0	77325	TZE	R27E+2	ROW 3 X2
77261	0402	00	0	77446	SUB	K11+12	
77262	0100	00	0	77320	TZE	R27D+2	ROW 4 X2
77263	0402	00	0	77446	SUB	K11+12	
77264	0100	00	0	77313	TZE	R27C+2	ROW 5 X2
77265	0402	00	0	77446	SUB	K11+12	
77266	0100	00	0	77306	TZE	R27B+2	ROW 6 X2
77267	0402	00	0	77446	SUB	K11+12	
77270	0100	00	0	77301	TZE	R27A+2	ROW 7 X2
77271	0020	00	0	77274	TRA	R27+2	ROW 8 X2
77272	0500	00	0	77407	R27	CLA K10-2	
77273	-0100	00	0	77277	TNZ	R27A	
77274	0500	00	0	77625	CLA	PR12+3	
77275	-0602	00	0	77573	ORS	PR10+3	ROW 8 X MATRIX
77276	0020	00	0	77337	TRA	R28	
77277	0402	00	0	77446	R27A	SUB K11+12	L 10
77300	-0100	00	0	77304	TNZ	R27B	
77301	0500	00	0	77625	CLA	PR12+3	
77302	-0602	00	0	77575	ORS	PR10+5	ROW 7 X MATRIX
77303	0020	00	0	77337	TRA	R28	
77304	0402	00	0	77446	R27B	SUB K11+12	L 10
77305	-0100	00	0	77311	TNZ	R27C	
77306	0500	00	0	77625	CLA	PR12+3	

77307	-0602	00	0	77577		ORS PR10+7	ROW 6 X MATRIX
77310	0020	00	0	77337		TRA R28	
77311	0402	00	0	77446	R27C	SUB K11+12	L 10
77312	-0100	00	0	77316		TNZ R27D	
77313	0500	00	0	77625		CLA PR12+3	
77314	-0602	00	0	77601		ORS PR10+9	ROW 5 X MATRIX
77315	0020	00	0	77337		TRA R28	
77316	0402	00	0	77446	R27D	SUB K11+12	L 10
77317	-0100	00	0	77323		TNZ R27E	
77320	0500	00	0	77625		CLA PR12+3	
77321	-0602	00	0	77603		ORS PR10+11	ROW 4 X MATRIX
77322	0020	00	0	77337		TRA R28	
77323	0402	00	0	77446	R27E	SUB K11+12	L 10
77324	-0100	00	0	77330		TNZ R27F	
77325	0500	00	0	77625		CLA PR12+3	
77326	-0602	00	0	77605		ORS PR10+13	ROW 3 X MATRIX
77327	0020	00	0	77337		TRA R28	
77330	0402	00	0	77446	R27F	SUB K11+12	L 10
77331	-0100	00	0	77335		TNZ R27G	
77332	0500	00	0	77625		CLA PR12+3	
77333	-0602	00	0	77607		ORS PR10+15	ROW 2 X MATRIX
77334	0020	00	0	77337		TRA R28	
77335	0500	00	0	77625	R27G	CLA PR12+3	
77336	-0602	00	0	77611		ORS PR10+17	ROW 1 X MATRIX
77337	0766	00	0	01361	R28	WPRA	
77340	0540	00	0	77723		RCHA CNTL3	PRINT-CNTRL 3RD LINE
77341	-0534	00	1	77354		LXD K-2,1	RETURN TO PROGRAM
77342	0020	00	0	00000	P13	TRA	RESTORE INDEX COUNT TO E3, E4, E5, OR E6
							TEST WORDS FOR COMPLEMENT CHECKERBOARD TEST
77343	+000000000000				TEST1	OCT 0	
77344	-377777777777				TEST2	OCT 777777777777	
							TEST WORDS FOR ALL ZEROS TEST
77345	+000000000000				ZEROS	OCT 0	
77346	+000000000000					OCT 0	
							TEST WORDS FOR ALL ONES TEST
77347	-377777777777				ONES	OCT 777777777777	
77350	-377777777777					OCT 777777777777	
77351	+000000000000	T1			OCT		TEST
77352	+000000000000	T2			OCT		PATTERN
77353	+000000000000	K0			OCT 0		
77354	+000000000000				OCT		INDEX COUNT

77355	+000000000000		OCT	TEMPORARY STORAGE
77356	+000000000002	K	OCT 2	COUNTER
77357	+000000000001		OCT 1	CONSTANTS
77360	+000000000002		OCT 2	CONSTANT
77361	0601 00 1 02000		STO 1024,1	
77362	+000000000002		OCT 2	COUNTER
77363	0340 00 1 02000		CAS 1024,1	
77364	+000004002000	M	OCT 4002000	
77365	+000003000007		OCT 00003000007	
77366	+000027000030		OCT 27000030	
77367	+000020000010		OCT 000020000010	
77370	+000000002000	K1	OCT 2000	
77371	+000007000000		OCT 7000000	
77372	+000000020000	K2	OCT 20000	
77373	+000000040000		OCT 40000	
77374	+000000100000		OCT 100000	
77375	+000000200000		OCT 200000	
77376	+000000400000		OCT 400000	
77377	+000000000007	K3	OCT 7	
77400	+000000000070		OCT 70	
77401	+000000000700		OCT 700	
77402	+000000007000		OCT 7000	
77403	+000000070000		OCT 70000	
77404	-377777017777	K4	OCT 777777017777	
77405	+000037777777		OCT 37777777	
77406	-0602 00 1 77464	K5	ORS PR1+12,1	ORS TO PR1+12,1
77407	+000000000000		OCT 0	TEMP STG.
77410	+000000000000		OCT 0	ERROR ADDRESS
77411	+000000077777	K10	OCT 77777	
77412	+000000074000		OCT 74000	
77413	+000000070000		OCT 70000	
77414	+000000064000		OCT 64000	
77415	+000000060000		OCT 60000	
77416	+000000054000		OCT 54000	
77417	+000000050000		OCT 50000	
77420	+000000044000		OCT 44000	
77421	+000000040000		OCT 40000	
77422	+000000034000		OCT 34000	
77423	+000000030000		OCT 30000	
77424	+000000024000		OCT 24000	
77425	+000000020000		OCT 20000	
77426	+000000014000		OCT 14000	
77427	+000000010000		OCT 10000	
77430	+000000004000		OCT 4000	
77431	+000000002000		OCT 2000	
77432	+000000001600	K11	OCT 1600	
77433	+000000001400		OCT 1400	
77434	+000000001200		OCT 1200	
77435	+000000001000		OCT 1000	
77436	+000000000600		OCT 600	
77437	+000000000400		OCT 400	
77440	+000000000200		OCT 200	
77441	+000000000007		OCT 7	
77442	+000000000004		OCT 4	

77443 +000000000001      OCT 1  
77444 +0000000000770      OCT 770  
77445 +0000000000100      OCT 100  
77446 +0000000000010      OCT 10

77447 +0000000000000      P6      OCT      ERROR ADDRESS

PRINT IMAGE FOR FIRST  
LINE

77450 +032040001504      PR1      OCT 32040001504 9 ROW LEFT  
77451 +0000000000000      OCT      9 ROW RIGHT  
77452 +0000000000000      OCT      8  
77453 +0000000000000      OCT  
77454 +0000000000000      OCT      7  
77455 +0000000000000      OCT  
77456 +0040000000230      OCT 4000000230 6  
77457 +0000000000000      OCT  
77460 +040020002000      OCT 40020002000 5  
77461 +0000000000000      OCT  
77462 +0003000000002      OCT 300000002 4  
77463 +0000000000000      OCT  
77464 +0000000000000      OCT      3  
77465 +0000000000000      OCT  
77466 +0000140000000      OCT 14000000 2  
77467 +0000000000000      OCT  
77470 +0004000000000      OCT 400000000 1  
77471 +0000000000000      PR4      OCT      ERROR WORD  
77472 +0000140000020      OCT 14000020 0  
77473 +0000000000000      OCT      COMPLEMENT OF ERROR WORD  
77474 +036040001714      OCT 36040001714 11  
77475 +0000000000000      OCT  
77476 +040720002002      OCT 40720002002 12  
77477 +0000000000000      OCT

PRINT IMAGE FOR SECOND  
LINE

77500 +0000002000004      PR2      OCT 200004 9  
77501 +0000000000000      OCT  
77502 +0000000000000      OCT      8  
77503 +0000000000000      OCT  
77504 +0000100000000      OCT 10000000 7  
77505 +0000000000000      OCT  
77506 +0000000000030      OCT 30 6  
77507 +0000000000000      OCT  
77510 +0000000500400      OCT 500400 5  
77511 +0000000000000      OCT  
77512 +0000000000002      OCT 2 4  
77513 +0000000000000      OCT  
77514 +000003001100      OCT 3001100 3  
77515 +0000000000000      OCT  
77516 +0000000000200      OCT 200 2  
77517 +0000000000000      OCT  
77520 +0000040000000      OCT 4000000 1

77521	+000000000000	PR5	OCT		TEST WORD
77522	+000003001320		OCT	3001320	0
77523	+000000000000		OCT		COMPLEMENT OF TEST WORD
77524	+000010300014		OCT	10300014	11
77525	+000000000000		OCT		
77526	+000004400402		OCT	4400402	12
77527	+000000000000		OCT		

					ERROR ADDRESSING FORM
77530	+000000000000	PR7	OCT		7
77531	+000000000000		OCT		6
77532	+000000000000		OCT		5
77533	+000000000000		OCT		4
77534	+000000000000		OCT		3
77535	+000000000000		OCT		2
77536	+000000000000		OCT		1
77537	+000000000000		OCT		0

					ADDRESSING FORM FOR
77540	+052000000000	PR8	OCT	52000000000	9 INITIAL
77541	+000000000000		OCT		COMPLEMENT
77542	+000000000000		OCT		8
77543	+000000000000		OCT		
77544	+000000000000		OCT		7
77545	+004000000000		OCT	4000000000	
77546	+000000000000		OCT		6
77547	+020000000000		OCT	2000000000	
77550	+020000000000		OCT	2000000000	5
77551	+001300000000		OCT	1300000000	
77552	+000000000000		OCT		4
77553	+010400000000		OCT	1040000000	
77554	+004400000000		OCT	4400000000	3
77555	+042040000000		OCT	4204000000	
77556	+000000000000		OCT		2
77557	+000000000000		OCT		
77560	+001000000000		OCT	1000000000	1
77561	+000000000000		OCT		
77562	+004000000000		OCT	4000000000	0
77563	+000040000000		OCT	40000000	
77564	+020400000000		OCT	2040000000	11
77565	+036500000000		OCT	3650000000	
77566	+053000000000		OCT	5300000000	12
77567	+041200000000		OCT	4120000000	

77570	+010010040014	PR10	OCT	10010040014	9L
77571	-000000144000		OCT	400000144000	9R
77572	+000001001000		OCT	1001000	8
77573	+010000000100		OCT	10000000100	
77574	+000000000002		OCT	2	7
77575	+000010020000		OCT	10020000	
77576	+204620100000		OCT	204620100000	6
77577	+301000003010		OCT	301000003010	
77600	+002000020000		OCT	2000020000	5
77601	+000000000001		OCT	1	
77602	+000000000100		OCT	100	4
77603	+000001000000		OCT	1000000	

77604	-120006200020	OCT	520006200020	3	
77605	+012400200324	OCT	12400200324		
77606	+000040010400	OCT	40010400	2	
77607	+000100000000	OCT	100000000		
77610	+040000000040	OCT	40000000040	1	
77611	+020004400000	OCT	20004400000		
77612	+020064011022	OCT	20064011022	0	
77613	+110010221100	OCT	110010221100		
77614	-206400144110	OCT	606400144110	11	
77615	-201441106014	OCT	601441106014		
77616	+150213220044	OCT	150213220044	12	
77617	+002000440020	OCT	2000440020		
77620	+000000000400	PR11	OCT 400		Y1, Y2, Y3, OR Y4
77621	-377777777377		OCT 77777777377		
77622	+020000000000	PR12	OCT 20000000000		ROW Y MATRIX
77623	+000100000000		OCT 100000000		COL Y MATRIX
77624	+000004000000		OCT 4000000		X1 OR X2
77625	+000000000200		OCT 200		ROW X MATRIX
77626	+000000000001		OCT 1		COL X MATRIX
77627	-357673777576		OCT 757673777576		

77630	0760 00 0 00163	NPER	SWT 3	
77631	0020 00 0 77633		TRA *+2	
77632	0020 00 0 76101		TRA AA	

77633	0766 00 0 01361		WPRA	
77634	0760 00 0 01363		SPRA 3	
77635	0540 00 0 77637		RCHA *+2	
77636	0020 00 0 76101		TRA AA	

77637	0000 30 0 77640		IOCD PNPEN,0,24	
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\* PRINT - NOW PERFORMING-9S05L-STORAGE TEST  
\* IMAGE - NOW PERFORMING-9S05L-STORAGE TEST

77640	+000000045040	PNPER	OCT 000000045040	9	ROW LEFT
77641	+040000000000		OCT 040000000000	9	ROW RIGHT
77642	+000000000000		OCT 000000000000	8	L
77643	+000000000000		OCT 000000000000	8	R
77644	+000000200200		OCT 000000200200	7	L
77645	+010000000000		OCT 010000000000	7	R
77646	+000003030000		OCT 000003030000	6	L
77647	+100000000000		OCT 100000000000	6	R
77650	+000004100404		OCT 000004100404	5	L
77651	+004400000000		OCT 004400000000	5	R
77652	+000000002000		OCT 000000002000	4	L
77653	+000000000000		OCT 000000000000	4	R
77654	+000000000002		OCT 000000000002	3	L
77655	+201100000000		OCT 201100000000	3	R
77656	+000000000020		OCT 000000000020	2	L
77657	-000200000000		OCT 400200000000	2	R
77660	+000000000000		OCT 000000000000	1	L
77661	+020000000000		OCT 020000000000	1	R
77662	+000001000030		OCT 000001000030	0	L
77663	-201300000000		OCT 601300000000	0	R
77664	+000006256503		OCT 000006256503	11	L
77665	+140000000000		OCT 140000000000	11	R



77666 +000000121200 OCT 000000121200 12 L  
77667 +034400000000 OCT 034400000000 12 R

\* PRINT - PASS COMPLETE-9S05L-STORAGE TEST  
\* IMAGE - PASS COMPLETE-9S05L-STORAGE TEST

77670 +0000000000010	PPER	OCT	0000000000010	9	ROW	LEFT
77671 +0100000000000		OCT	0100000000000	9	ROW	RIGHT
77672 +0000000000000		OCT	0000000000000	8		L
77673 +0000000000000		OCT	0000000000000	8		R
77674 +000000401000		OCT	000000401000	7		L
77675 +0020000000000		OCT	0020000000000	7		R
77676 +000000004000		OCT	000000004000	6		L
77677 +0200000000000		OCT	0200000000000	6		R
77700 +000000000241		OCT	000000000241	5		L
77701 +0011000000000		OCT	0011000000000	5		R
77702 +000000002000		OCT	000000002000	4		L
77703 +0000000000000		OCT	0000000000000	4		R
77704 +000000010500		OCT	000000010500	3		L
77705 -0402200000000		OCT	4402200000000	3		R
77706 +000000140004		OCT	000000140004	2		L
77707 +1000400000000		OCT	1000400000000	2		R
77710 +000000200000		OCT	000000200000	1		L
77711 +0040000000000		OCT	0040000000000	1		R
77712 +000000140106		OCT	000000140106	0		L
77713 +1402600000000		OCT	1402600000000	0		R
77714 +000000407420		OCT	000000407420	11		L
77715 -2300000000000		OCT	6300000000000	11		R
77716 +000000210240		OCT	000000210240	12		L
77717 +0071000000000		OCT	0071000000000	12		R
77720 -1 00003 0 00000	CNTL	MON	0,0,3			
77721 0 00030 0 77450	CNTL1	PZE	PR1,0,24	CNTRL	PRINT	1ST LINE
77722 0 00030 0 77500	CNTL2	PZE	PR2,0,24	CNTRL	PRINT	2ND LINE
77723 0 00030 0 77570	CNTL3	PZE	PR10,0,24	CNTRL	PRINT	3RD LINE
00000		END				