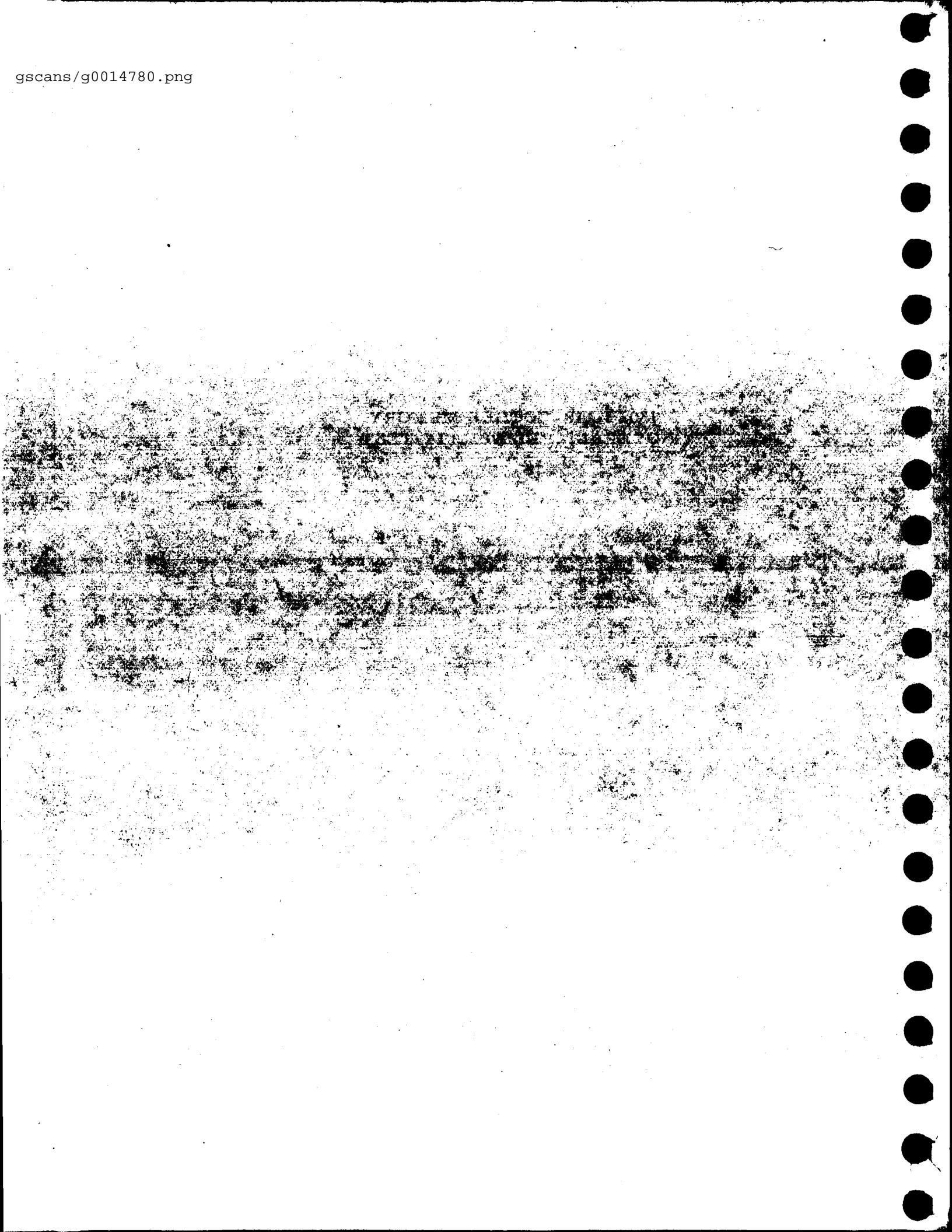


**8MU98A  
8MU99A**

**73011 AIR-COOLED MEMORY  
OVERALL RELIABILITY TIME**

**July 15, 1961**



8MU98  
8MU99

Unit Tested: 7302 I 160K Air-Cooled Memory

A. PURPOSE OF TEST

To provide a comprehensive exercise of the 7302 Memory hardware with emphasis on a clear presentation of error data to aid diagnosis of memory failures in the 7080 System.

B. METHOD OF TEST

The 160K Memory tests are released as two programs: 8MU98 and 8MU99

8MU98 - Checks the upper 80K half of memory (80000-159999)  
8MU99 - Checks the lower 80K half of memory (00000-79999)

Each program proceeds automatically to run a series of sixteen tests of memory function. It proceeds from the simple "ones" discrimination test through various checkerboard tests, half select beat tests, and finishes with an all non-redundant character discrimination test. The test assumes that the CPU is functioning normally and that in cases where neither CPU programs nor Memory programs will run, the Memory CE Test Panel should sufficiently determine whether the fault lies in memory.

The tests, called sections, are as follows:

Section 1 Ones Discrimination. This test checks the ability of the memory to store and retrieve "Ones" in all addresses and planes.

Section 2 Zeros Discrimination. This test checks the ability of the memory to store and read "Zeros" in all addresses and planes.

Section 3 Alternate Plane Discrimination. This test is designed to check for any interaction between adjacent planes. Ones and Zeros are loaded into alternate planes and checked.

Section 4 Alternate Plane Discrimination. This test is the complement of Section 3.

8MU98  
8MU99

- Section 5** Memory Address Placement. This test loads 5 position numeric addresses at addresses in memory and checks that they are correctly retrieved.
- Section 6** Two-Dimensional Checkerboard Discrimination. Load and Check the Regular 2D Checkerboard pattern with data bits arranged to provide minimum interplane noise.
- Section 7** Two-Dimensional Checkerboard Discrimination. Load and Check the Inverted Regular 2D Checkerboard. This test is the complement of Section 6.
- Section 8** In-Line Plane Checkerboard, Complemented. This test loads the regular checkerboard with data words of all Ones and all Zeros, complements each address individually, and checks it for retention by single character read-out.
- Section 9** In-Line Plane Checkerboard, Complemented. This test is the complement of Section 8.
- Section 10** Alternate Plane Checkerboard, Complemented. This test uses data words of alternate Ones and Zeros to generate interplane noise. In all other respects it is like Sections 8 and 9.
- Section 11** Alternate Plane Checkerboard, Complemented. This test is the complement of Section 10.
- Section 12** Two-Dimensional Checkerboard, Complemented. This test uses the regular 2D checkerboard pattern and checks each address as in Sections 8 and 9.
- Section 13** Two-Dimensional Checkerboard, Complemented. This test is the complement of Section 12.
- Section 14** Half Select Core Beat-All Ones. The test is executed by resetting-off all bits of the objective test area, then "beating" a specific ten character address with all Ones. Upon completion of the specific number of "beats," each bit of each character of each address along the X and Y line involved in the beat operation is interrogated for bit pickup. This operation is repeated 127 times until all X and Y lines have been checked.

8MU98  
8MU99

**Section 15** Half Select Core Beat-All Zeros. This test is the complement of Section 14 except that "beating" is done with all Zeros and interrogation is done for bit dropout.

**Section 16** All Character Non-Redundant Discrimination. This test loads and checks all of the 50 non-redundant characters except blank and group mark into all positions of the objective test area.

Upon completion of each Section, a short type-out (such as S-1, S-2...S-16) is executed to provide visual verification of the intended sequence of test operation.

### C. AREA OF MACHINE REQUIRED

#### 1. Units

MF, Typewriter or Printer, CR or Tape

#### 2. Memory Locations

8MU98 - 00000-39995

8MU99 - 120104-159995

### D. LOADING PROCEDURES

#### 1. Card

Both 8MU98 and 8MU99 decks use standard 8LD01 (from 714) or 8LD10 (from 7502) loaders and 8TR02 transfer cards.

#### 2. Tape

Use tape file generated by 8TR06.

Auto-Load 0200

- Refer to 8TR06 write-up for further usage information.

8MU98  
8MU99

## E. PROGRAM CONTROL

### 1. Card Deck

<u>8MU98</u>		<u>8MU99</u>	
SLD01	2	SLD01	2
8MU98	474	8MU99	444
STR02	1	STR02	1
Blanks	3	Blanks	3

### 2. Alteration Switches

- 0911 On Bypass Type-outs
- 0912 On Repeat Section
- 0913 On Specific Section Selection (see F. Normal Stops)
- 0914 On Repeat Program
- 0915 On Bypass Tabulation
- 0916 On Print Tabulation Error Results. - and Extend S-14 and S-15 Error Type-out. - and Print "No Errors" after each section if none detected.

### 3. Check Switches

- 0901 Program Control
- 0902 Program Control

All others in automatic (See I.1. Comments)

## F. NORMAL STOPS

- 0001 Encountered after execution of "901-902 TO PROG" type-out. Allows setting of designated check switches.
- 1111 Encountered only when alteration switch 0913 is on. Allows manual storage of two numerics at 19990-19991 to gain immediate entrance to any specific section.

(See I.4. Comments, Specific Section Selection)

Depress start to continue.

8MU98  
8MU99**G. ERROR STOPS****None****H. PRINTED RESULTS****1. Normal Type-Outs****901-902 TO PROG**

Indicates that these check switches must be set to program control.

**S-1****S-2**

•

•

**S-16**

Indicates which section has been completed.

**PASS 001-8MU98**

Indicates number of complete program passes made.

**PASS 001-8MU99****(S-1)****NO ERRORS**

Indicates no errors made within a specific section. Printed only when 0916 is on.

**NTP**

Indicates "No Tabulation Performed" on Section 5 only. Printed only when 0916 is on.

**2. Error Type-Outs****a) Typical of sections 1, 8, 9, and 15****104547 - AB - D-----****The above type-out is interpreted as follows:**

**104547** Address in which error was detected.  
**- AB -** Character at that position should be a redundant group mark, or "All Bits."  
**D-----** The seven position breakdown indicates that a C bit was dropped.

8MU98  
8MU99

b) Typical of sections 2, 8, 9 and 14

095323 -NB- ---P---

The above type-out is interpreted as follows:

095323 Address in which error was detected  
-NB- Character at that position should be a  
Storage Mark, or "No Bits."  
---P--- The bit breakdown indicates that an 8  
bit was picked.

c) Typical of sections 3, 4, 10, and 11

157961 V .. X -----P-

The above type-out is interpreted as follows:

157961 Address in which error was detected.  
V .. X Left hand character indicates what should  
have been at that position  
Right hand character indicates what was  
found at that position.  
-----P- The bit breakdown indicates that a 2 bit was  
picked.

d) Typical of sections 3, 4, 10 and 11

138403 ...0 -D-----

The above type-out is interpreted as follows:

138403 Address in which error was detected.  
...0 Left hand character indicates what should  
have been a negative zero (since a plus or  
negative zero prints + or - resp.)  
Right hand character indicates what was  
found at that position.  
-D----- The bit breakdown indicates that a B bit  
was dropped.

8MU98  
8MU99

e) Typical of section 5 only

085804    85799

The above type-out is interpreted as follows:

085804 Address in which erroneous contents were found.  
85799    Contents found at above address.  
            Erroneous, since it does not match the address in which it is residing.

f) Typical of section 5 only

097709    97708    1

The above type-out is interpreted as follows:

097709 Address in which erroneous contents were found.  
97708    Contents found at above address. It does not match its resident address.  
1         Indicates a redundancy in contents.

g) Typical of sections 6, 7, 12, 13 and 16.

144935    C--B    -----D

The above type-out is interpreted as follows:

144935 Address in which error was detected.  
C--B    Left hand character indicates what should have been at that position.  
            Right hand character indicates what was found at that position.  
-----D The bit breakdown indicates that a 1 bit was dropped.

8MU98  
8MU99

h) Typical of sections 14 and 15 (when 0916 is on)

066667 -NB- --P--- CBA 064029 XY 033 033

The standard format type-out is extended providing additional information only when 0916 is on. It is interpreted as follows:

066667 Address in which error was detected.  
-NB- Character should be "no bits."

--P--- Denotes an "A" bit pick  
CBA 064029 Current Beat Address under test.  
XY 033 033 X and Y array line coincidence of CBA.

3. Tabulated Error Type-Outs

If and when alteration switch 0916 is on and errors have been encountered, a complete multi-line print-out is made immediately after each section (so long as 0916 remains on) pointing out the frequency of errors by character, bit plane, MAR X and Y drivers, and Z and S segments all correlated into appropriate drop and pick divisions. Switch 0916 is completely selective. It may be used at any time or at the completion of all sections.

Tabulation is unconditional (unless suppressed by switch 0915) and is accumulative from one section test to another. Only resetting the program or reloading will clear the tabulation fields to initial zeros. A sample print-out is provided on pages xiii and xiv.

If it is desired to obtain tabulation data for specific sections only, alteration switch 0915 can be used discriminately to suppress error tabulation of any or all sections prior to and/or following the desired sections.

If only one section tabulation is desired, usage of the 0913 switch feature of immediate section selection is the alternate positive method thereby eliminating the necessity of discriminate 0915 switching.

The release versions of these tests select the typewriter for the tabulation output. If it is desired to use the printer or tape instead for this "on-line" output, store a "4" (for printer) or a "2" (for tape) at memory location:

002112 - within 8MU98  
122062 - within 8MU99

8MU98  
8MU99

I. COMMENTS

1. Restart Procedures

In the event any checks occur other than 0901 or 0902, the program should be stopped and restarted.

Within 8MU98 - Reset and start  
Within 8MU99 - Reset  
Enter 7080 mode (Control ASU 14)  
Transfer to 120104

If trouble persists, reload the program.

2. Execution Timings for Error-Free Operation

Each program pass - 4' 25"

Programs:

S-1 - 35"

S-2 - 35"

S-3 - 35"

S-4 - 35"

S-5 - 35"

S-6 - 35"

S-7 - 35"

S-8 - 35"

S-9 - 35"

S-10 - 35"

S-11 - 35"

S-12 - 35"

S-13 - 20"

S-14 - 45"

S-15 - 45"

S-16 - 15"

8MU98  
8MU99

**3:** Beat Counter for Sections 14 and 15

The number of "Beats" that each test address receives within these sections has been set at a nominal value of 1000.

However, if so desired, this value may be increased (or decreased) to any value up to 999,999 by manually storing six digits at the following memory locations:

39990 - 39995 - Within 8MU98  
159990 - 159995 - Within 8MU99

The value desired must be stored as exemplified below -

Value Desired: 50000  
Store : b50000 (b denotes blank)

Value Desired: 4555  
Store : bb455E

Value Desired: 999999  
Store : 99999I

Finally, it must be understood that any increase in the Beat Counter will increase the length of time required to execute the section.

**4.** Specific Section Selection

Immediate entrance to any section test within the program may be had by doing the following manual operations:

- a. Set alteration switch 0913 ON.
- b. Reload the program OR.  
Reset the program to its initial starting point.  
(See I.1. Comments, Restart Procedures)

Halt 1111 will stop the program.

8MU98

8MU99

- c. Store 2 numerics at 19990 - 19991.

These numerics must correspond to the section desired as exemplified below:

Section Desired : 6  
Store : 06

Section Desired : 14  
Store : 14

- d. Depress Start

This feature is extremely useful in gaining direct access to any specific section desired, thereby bypassing the necessity of waiting for the sequence to be executed.

5. Alternate Method for Program Input from the 8TR06 Tape

If for any reason, either of these programs does not appear to be functioning properly and faulty program input from tape is suspected, the 8TR06 record counter read control may be bypassed by executing the following manual operations:

For Both 8MU98 and 8MU99

- a. Be sure that the tape read head is located immediately in front of the first record of the program desired.

For 8MU98

- a. Read: Record 1 into 0000  
Record 2 into 20000  
Record 3 into 40000  
Record 4 into 60000

- b. Store at 0000-0004 the following five characters: 30000 + -

- c. Reset and Start

For 8MU99

- a. Enter 7080 Mode (Control ASU 14)

- b. Read: Record 1 into 120000  
Record 2 into 140000  
Record 3 into 0000  
Record 4 into 0000

These last 2 reads can be bypassed if continuous program read-in is of no importance.

- c. Transfer to 120104

8MU98  
8MU99

## 6. Effective Interpretation and Usage of Tabulated Data

The tabulation of errors feature is particularly useful in obtaining an overall picture of what is failing (by matrix definition of character by bit) and at what locations (actual memory addresses decoded into equivalent MAR X and Y drivers and Z and S segments). Regardless of the setting of switch 0911 (bypass typeout function), all error data is accumulated unconditionally into the tabulation fields (as long as 0915 remains off). Alteration Switch 0916 (Print Tabulation Error Results) always over-rides any setting of 0911. Therefore, if many immediate error indications do occur, it is strongly recommended, as a time saving device, to throw both 0911 and 0916 on.

An attempt has been made to arrange the Character by Bit matrix in such a way as to provide immediate identification of the numerically assigned bit planes by physical location. They are as follows:

<u>CHAR</u>	<u>BIT</u>	<u>C</u>	<u>B</u>	<u>A</u>	<u>8</u>	<u>4</u>	<u>2</u>	<u>1</u>	<u>Bit Planes</u>
9-	00	01	02	03	04	05	06		
8-	07	08	09	10	11	12	13		
7-	14	15	16	17	18	19	20		
6-	21	22	23	24	25	26	27		
5-	28	29	30	31	32	33	34		
4-	36	37	38	39	40	41	42		
3-	43	44	45	46	47	48	49		
2-	50	51	52	53	54	55	56		
1-	57	58	59	60	61	62	63		
0-	64	65	66	67	68	69	70		

The MAR X and Y driver and Z and S segment matrices portion of the tabulation reflect the total number of times that each "line" was involved in an error. As mentioned above, these area totals represent decoded memory addresses the actual value of which is indicated only within the "immediate" error indications (as exemplified in H. 2. Error Indications).

Typical examples of the tabulation fields may be found on the following pages.

SMU98  
SMU99

a) Typical SMU99 Tabulation

80000-139999 BP 00-70

BP	"0"	"1"	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"I"	"J"	
CHR	DROP PICK												
9-	0	01	03	0	03	0	03	01	02	01	0	03	01
8-	02	02	03	0	03	0	02	0	01	0	02	0	02
7-	0	0	0	0	0	0	0	0	01	0	02	0	02
6-	0	0	01	0	0	0	0	0	0	0	0	0	0
5-	0	0	01	0	01	0	0	0	0	0	0	0	01
4-	0	0	01	0	01	0	0	0	0	0	0	0	0
3-	0	01	0	0	01	0	01	0	0	01	01	0	0
2-	02	0	0	0	0	0	01	0	02	0	0	02	0
1-	01	02	04	0	02	0	02	03	03	02	0	02	01
0-	02	03	04	0	04	0	02	01	02	01	02	01	02

MAR Y	MAR X	SEGMENTS	-ZA-	-ZB-	
	DROP PICK		DROP PICK	DROP PICK	
1-	048	023	SA-	0	0
2-	0	0	SB-	0	0
3-	0	0	SC-	073	035
4-	073	035	SD-	0	0
5-	073	035			
6-	073	035			
7-	073	035			
8-	073	035			
9-	073	035			
10-	073	035			
11-	0	0			
12-	073	035			
13-	032	016			

SMU98  
SMU99b) Typical SMU99 Tabulation

00000--79999 BP 00-70

	"0"	"1"	"2"	"3"	"4"	"5"	"6"	"7"
PROP. PICK								
CHAR								
1-	01	0	01	01	01	01	0	0
2-	0	02	03	0	03	01	03	03
3-	01	01	02	0	02	0	03	02
4-	02	01	01	01	03	0	03	02
5-	01	02	03	02	01	03	02	01

MAR Y	MAR X	SEGMENTS "ZA"	"ZB"
PROP PICK	PROP PICK	PROP PICK	PROP PICK
34- 023	017	4- 0 0	ZA- 0 0
5- 0	0	5- 056 037	SB- 056 037
6- 056	037	6- 056 037	SC- 0 0
7- 0	0	7- 056 037	SD- 0 0
10- 056	037	15- 0 0	0 0
11- 056	037	16- 056 037	0 0
12- 0	0	17- 056 037	0 0
13- 056	037		

As shown above, only those character lines which contain error counts are printed.

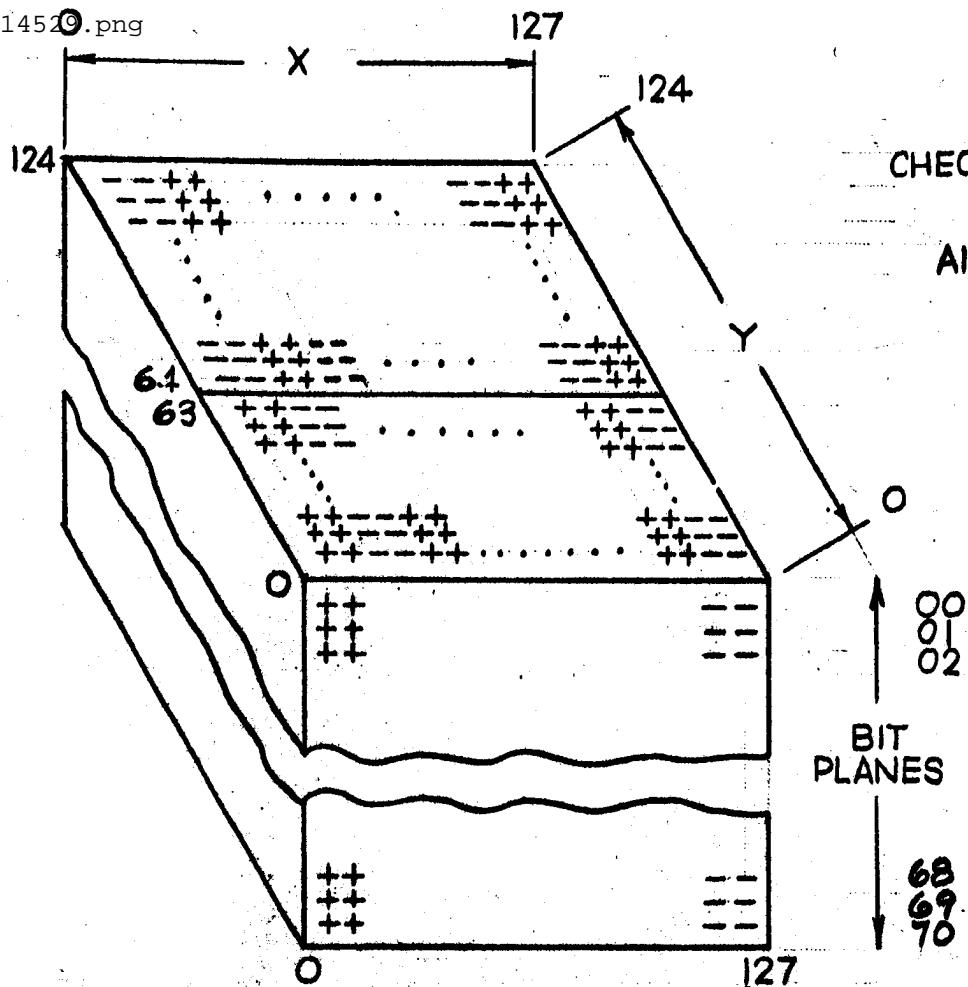
All of the MAR Y and X and Segment line counts are printed unconditionally.

Within both SMU98 and SMU99, there are 3 possible exits from Tabulation Print, once entered, if 0916 is thrown off.

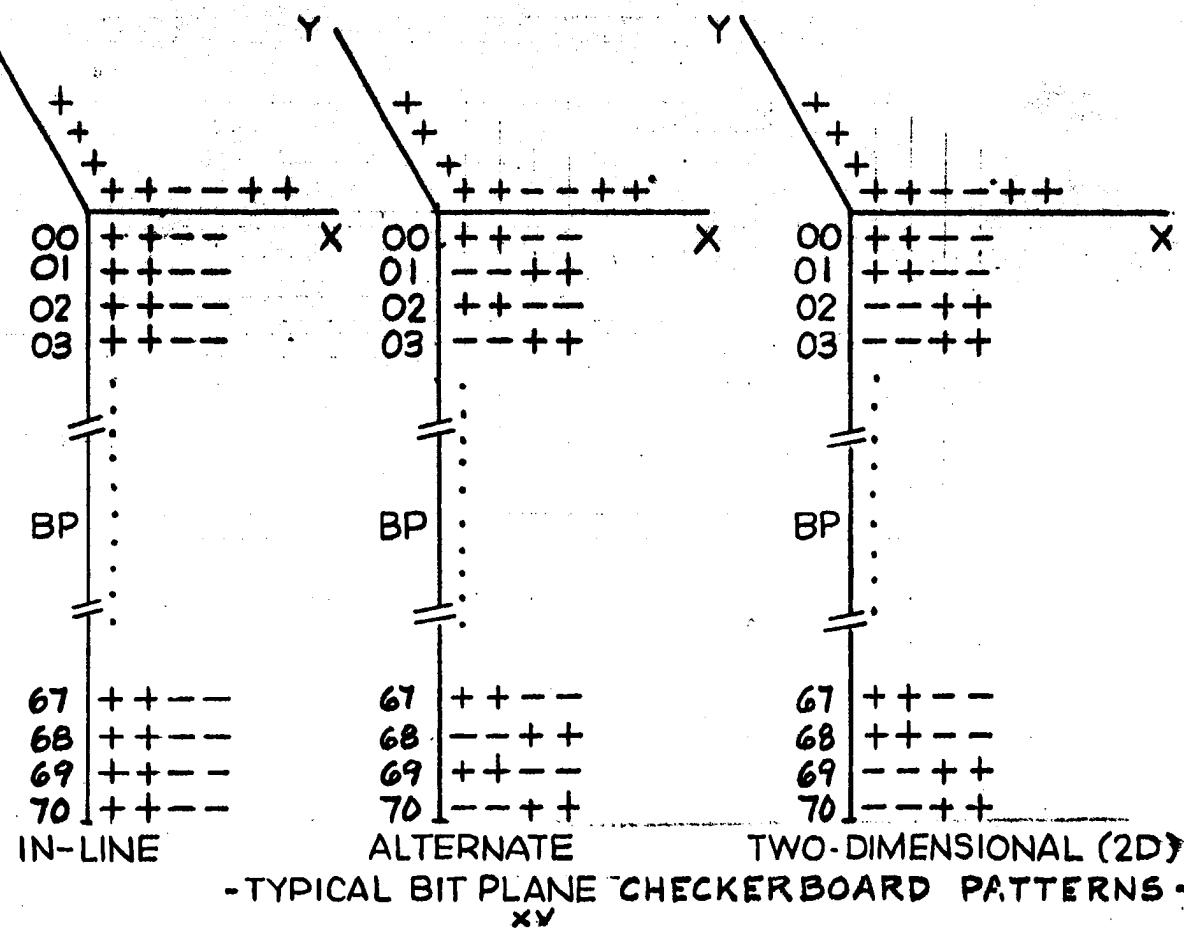
They are:

1. Prior to print of line - BP C B A S 4 2 1
2. Prior to print of line - 9- 0 0 0 0 0 0 0  
(or the first character line containing errors)
3. Prior to print of line - MAR Y MAR X SEGMENTS

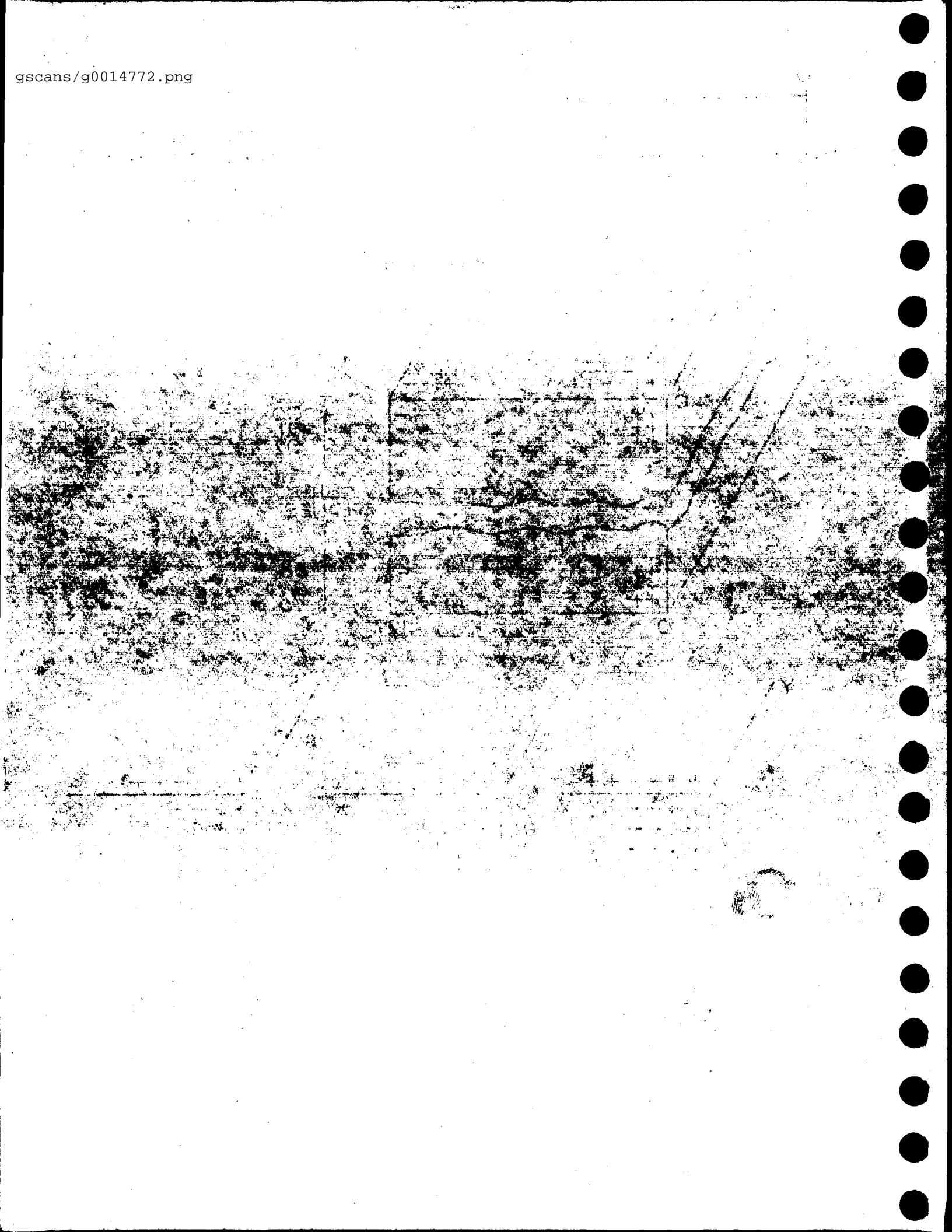
8MU98  
8MU49



TYPICAL X-Y  
CHECKERBOARD PATTERN  
FOR  
7302 I  
AIR-COOLED MEMORY



gscans/g0014772.png



KWD TR LOCATION OPN ASU ADDRESS

FWD TR

PAGE 01 OF 96

8MU98

g:/ns/g0014530.png

8MU98A -160 K- 6-30-61  
-7302 I AIR COOLED-  
MEMORY OVERALL RELIABILITY CHK  
TESTS 80000-159999

SECT 1- ONES DISCRIMINATION  
SECT 2- ZEROES DISCRIMINATION  
SECT 3-ALT PLANE DISCRIM V-V-V  
SECT 4-ALT PLANE DISCRIM -V-V-  
SECT 5- MEMORY ADDR PLACEMENT  
SECT 6- 2D CHKBD DISCRIM-C0@ZC  
SECT 7- 2D CHKBD DISCRIM-@ZC0@  
SECT 8-IN LINE PL CHKBD-CMPLMT  
SECT 9-IN LINE PL CHKBD-CMPLMT  
SECT 10- ALT PL CHKBD-CMPLMT  
SECT 11- ALT PL CHKBD-CMPLMT  
SECT 12-2D CHECKERBOARD-CMPLMT  
SECT 13-2D CHECKERBOARD-CMPLMT  
SECT 14- HALF SELECT CORE BEAT  
SECT 15- HALF SELECT CORE BEAT  
SECT 16- ALL CHAR NR DISCRIM

00004 EEM 3 14 0000 0E-0  
00009 NOP A 0044  
00014 SEL 2 0500  
00019 WR R 2903  
00024 TMC O 11 0029 0-B9  
00029 TRC O 12 0034 0&34  
00034 SGN T 0005.....  
00039 HLT J 0001  
00044 LDA # 2799.....  
00049 ULA \* 0864  
00054 ULA \* 0884  
00059 ULA \* 0904  
00064 ULA \* 0924  
00069 ULA \* 0939  
00074 ULA \* 0959  
00079 ULA \* 0984  
00084 ULA \* 0994  
00089 ULA \* 1024  
00094 ULA \* 1054  
00099 ULA \* 1039  
00104 LDA # 2794  
00109 ULA \* 0929  
00114 ULA \* 0964  
00119 ULA \* 1004

NEXT PAGE

ENTER 7080 MODE

SW 1 - BYPASS T-0 AND STOP

901-902 TO PROG

SET SW 1 TO TR

HALT RESERVATION FOR CK SW SET

PRESET UPPER 80K ADDRESSES

80004

80000

gscans/g0010129nd I □ 00124 ADD G 2732 □  
 □ 00124 ULA \* 0889 □  
 □ 00134 ULA \* 0969 □  
 □ 00139 ULA \* 1009 □

INCREASE TO 80001

I □ 00144 ADD G 2732 □  
 □ 00149 ULA \* 0934 □  
 □ 00154 ULA \* 0974 □  
 □ 00159 ULA \* 1014 □

INCREASE TO 80002

I □ 00164 ADD G 2732 □  
 □ 00169 ULA \* 0894 □  
 □ 00174 ULA \* 0979 □  
 □ 00179 ULA \* 1019 □

INCREASE TO 80003

I □ 00184 LDA # 2804 □  
 □ 00189 ULA \* 1034 □

80009

I □ 00194 SET B 0003 □  
 □ 00199 LOD 8 2765 □  
 □ 00204 UNL 7 9205 □

000  
RESET PASS COUNT

I □ 00209 SET B 0076 □  
 □ 00214 LOD 8 3145 □  
 □ 00219 UNL 7 3617 □  
 □ 00224 UNL 7 3697 □  
 □ 00229 UNL 7 3777 □  
 □ 00234 UNL 7 3857 □  
 □ 00239 UNL 7 3937 □  
 □ 00244 UNL 7 4337 □  
 □ 00249 UNL 7 4257 □  
 □ 00254 UNL 7 4177 □  
 □ 00259 UNL 7 4097 □  
 □ 00264 UNL 7 4017 □

TABULATION AREA	RESET				
0	0	0	0	0	0
9-					
8-					
7-					
6-					
5-					
4-					
3-					
2-					
1-					
0-					

I □ 00269 SET B 0012 □  
 □ 00274 LOD 8 3069 □  
 □ 00279 UNL 7 8599 □  
 □ 00284 UNL 7 8640 □  
 □ 00289 UNL 7 8619 □  
 □ 00294 UNL 7 8715 □  
 □ 00299 UNL 7 8694 □  
 □ 00304 UNL 7 8790 □  
 □ 00309 UNL 7 8769 □  
 □ 00314 UNL 7 8865 □  
 □ 00319 UNL 7 8844 □  
 □ 00324 UNL 7 8940 □  
 □ 00329 UNL 7 8919 □  
 □ 00334 UNL 7 8980 □  
 □ 00339 UNL 7 8959 □  
 □ 00344 UNL 7 9020 □  
 □ 00349 UNL 7 8999 □

MARTAB AREA	RESET				
0	0	0	0	0	0
3-					
5-					
6-					
7-					
10-					
11-					
12-					
13-					

SEGTAB AREA RESET

SA  
SB  
SC  
SD

NEXT PAGE

9 075/80014 58100384 SET B 0001 □  
□ 00389 LOD 8 2732 □  
□ 00394 UNL 7 1080 □  
□ 00399 UNL 7 1075 □  
□ 00404 UNL 7 7880 □

RESET SECTION 2 SWITCHES  
A

□ 00409 UNL 7 1070 □  
□ 00414 UNL 7 4360 □  
□ 00419 UNL 7 4415 □  
□ 00424 UNL 7 4530 □  
□ 00429 UNL 7 4900 □  
□ 00434 UNL 7 7880 □

RESET SECTION 3 SWITCHES

□ 00439 UNL 7 11050 /050 □  
□ 00444 UNL 7 10870 870 □  
□ 00449 UNL 7 11565 /565 □

RESET SECTION 7 SWITCHES

□ 00454 UNL 7 10845 845 □

RESET SECTION 8 SWITCHES

□ 00459 UNL 7 10840 840 □  
□ 00464 UNL 7 13595 T595 □  
□ 00469 UNL 7 13980 T980 □  
□ 00474 UNL 7 13765 T765 □  
□ 00479 UNL 7 13805 T805 □  
□ 00484 UNL 7 14175 U175 □  
□ 00489 UNL 7 14215 U215 □

RESET SECTION 9 SWITCHES

□ 00494 UNL 7 10835 835 □

RESET SECTION 10 SWITCHES

□ 00499 UNL 7 10830 830 □  
□ 00504 UNL 7 14755 U755 □  
□ 00509 UNL 7 14920 U920 □  
□ 00514 UNL 7 14960 U960 □  
□ 00519 UNL 7 14980 U980 □  
□ 00524 UNL 7 15175 V175 □  
□ 00529 UNL 7 15215 V215 □

RESET SECTION 11 SWITCHES

□ 00534 UNL 7 10825 825 □

RESET SECTION 12 SWITCHES

□ 00539 UNL 7 10820 820 □  
□ 00544 UNL 7 15775 V775 □  
□ 00549 UNL 7 15940 V940 □  
□ 00554 UNL 7 15980 V980 □  
□ 00559 UNL 7 16035 W035 □  
□ 00564 UNL 7 16075 W075 □  
□ 00569 UNL 7 16095 W095 □

RESET SECTION 13 SWITCHES

NEXT PAGE

gscans/g0014 long

00574 RAD H 01	2767 27W7
00579 SET B 04	0004 0 04
00584 SET B 05	0005 0 5
00589 RAD H 06	2773 2XP3
00594 SET B 07	0007 0 &7
00599 LOD 8 07	3527 3VB7
00604 SET B 08	0001 0-01
00609 LOD 8 08	2825 2Q25
00614 SET B 09	0001 0-1
00619 LOD 8 09	2829 2QS9
00624 RAD H 10	2731 2PL1
00629 RAD H 11	2732 2PC2
00634 NOP A	0004
00639 NOP A	0004

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HOUSEKEEPING

000001

000005

D FOR DROP

P FOR PICK

0

1

SPECIFIC SECTION SELECTION

STOP &amp; STORE SECT # IF 0913 ON

00644 TAC I 03	0654 06E4	F06
00649 TR 1	0949	
00654 HLT J	1111.....	
00659 EEM 3 14	0000 0&-0	

STORE SECTION DESIRED AT 19990  
DEPRESS START--  
RE-ENTER 7080 MODE

00664 RCV U	19990 Z990	
00669 TZB • 01	0679 06X9	
00674 TR 1	0744	B05

TEST TENS ORDER OF SS AREA  
MUST BE 0-9  
MUST BE 10-16

00679 RCV U	19991 Z991	
00684 TZB • 04	0699 0W99	
00689 TZB • 01	9994 99Z4	ET47
00694 TR 1	10109 109	EU48
00699 TZB • 03	0719 07A9	
00704 TZB • 02	0734 07L4	
00709 TZB • 01	9809 98 9	EQ46
00714 TR 1	9894	ER46
00719 TZB • 02	0949 09M9	F06
00724 TZB • 01	0814 08/4	C05
00729 TR 1	0824	D05
00734 TZB • 01	0834 08T4	E05
00739 TR 1	9429	EH44

TEST UNITS ORDER OF SS AREA  
SECTION 8  
SECTION 9SECTION 6  
SECTION 7  
SECTION 1 OR NONE SELECTED  
SECTION 2  
SECTION 3  
SECTION 4  
SECTION 5

NEXT PAGE



## SECTION 1 SETUP

gscans/g0004769.png

04	00949	SET	B	0005		
F05	00954	LOD	8	2854		
	00959	UNL	7	0000		
	00964	SB	%	08	0000	0-00
	00969	SB	%	08	0000	0-00
	00974	SB	%	08	0000	0-00
	00979	SB	%	08	0000	0-00
	00984	SB	%	08	0000	0-00
	00989	TR	1		1029	-

5 GROUP MARKS  
INTO 80004

80000 SET C BITS ON  
80001  
80002  
80003  
80004

## SECTION 2 SETUP

AT 80004  
BLANK 80000 POSITIONS OF MEM

80000      RESET C AND A BITS OFF  
80001  
80002  
80003  
80004

## COMMON MEMORY FILL AREA

AT 80009-1245 CHARS-FROM 80004

63

AT 81254-1250 CHARS-FROM 80004

DECREASE CTR BY 1

H05.....■ 01029 SET B 0249.....■ .  
□ 01034 RCV U 0000 □  
□ 01039 SND / 0000 □  
□ 01044 RAD H 03 2757 27E7 □  
□ 01049 SET B 0250 □  
• ■ 01054 SND / 0000 □  
I □ 01059 SUB P 03 2732 27C2 □  
I □ 01064 TRZ N 03 1074 10G4-■-  
+ - 01069 TR 1 1054 □  
□□□□□□□□□□□□□□□□□□□□□□

## SECTION 4 SWITCH

### SECTION 3 SWITCH

I  
I  
□□□□□□□□□□□□□□□□□□  
□ 01089 LOD 8 04 2799 2X99 □  
□ 01094 UNL 7 04 1104 1/04 □  
□  
□  
J07.....■ 01099 SET B 0005 □  
□ 01104 LOD 8 0000 □  
□ 01109 CMP 4 2854 □  
□ 01114 TRE L 1124 ----- □  
□ 01119 TR 1 1574 ----- □

## SECTION 1-EQUAL INTERROGATION

000U 80004  
SET TEST ADDR

TEST ADDRESS  
TEST FOR 5 EQUAL GM-S  
BIT DROP-IF NOT EQUAL

## SECTION 1-C BIT DROP INTERROGA

DECREASE CHK ADDR BY 4  
SET CHK ADDR

5  
CHECK ADDRESS  
TEST FOR C BIT DROP

DECREASE CTR BY 1

INCREASE CHK ADDR BY 1

TEST FOR 159999  
SECTION 1 COMPLETE

INCREASE TEST ADDR BY 00005

SECTION 1 COMPLETE

PRINT TAB RESULTS IF 0916 ON  
REPEAT SECTION 1 IF 0912 ON  
GO TO SECTION 2

SET TAB PRINT VARIABLE TR BACK  
GO TO TABULATION PRINT AREA

SECTION 1-C BIT DROP

ERROR ADDRESS INTO T-0

•AB•

-----

D INTO ASU 15

BYPASS T-0 IF 0911 ON

000000 •AB• D-----

BYPASS TABULATION IF 0915 ON

NEXT PAGE

gscans/g0014018299 TSL 1 01 1784 17Y4-----X10  
 01324 RCV U 2106   
 01329 TSL 1 01 5714 57/4-----CM26  
 01344 RCV U 17716 X716   
 01349 TSL 1 01 17289 X2Y9-----JN86  
 01354 TR 1 1154-----L07

SET VARIABLE RETRACE TR ADDR  
 GO TO C BIT START TAB ADDR

SET MARTAB RETURN  
 GO TO MARTAB

SET SEGTAB RETURN

R06.....  
 01359 LOD 8 04 2794 2X94   
 01364 UNL 7 04 1374 1T74   
 01369 UNL 7 07 2901 2Z&1   
 01374 RCV U 0000   
 01379 TZB 01 1389 13Y9-----  
 01384 UNL 7 09 2901 2R 1  I  
 01389 TZB 02 1399 13R9-----  
 01394 UNL 7 09 2900 2R 0  I  
 01399 TZB 03 1409 14&9-----  
 01404 UNL 7 09 2899 2QZ9  I  
 01409 TZB 04 1419 1U19-----  
 01414 UNL 7 09 2898 2QZ8  I  
 01419 TZB 05 1429 1US9-----  
 01424 UNL 7 09 2897 2QZ7  I  
 01429 TZB 06 1439 1UL9-----  
 01434 UNL 7 09 2896 2QZ6  I  
 01439 TZB 07 1454 1UE4-----  
 01444 UNL 7 09 2895 2QZ5  I  
 01449 TR 1 1464-----  
 01454 CMP 4 07 2901 2Z&1-----  
 01459 TRE L 1494-----  
 01464 LDA # 1374-----  
 01469 UNL 7 2886  I  
 01474 LOD 8 04 9197 9/97  I  
 01479 UNL 7 04 2892 2Y92  I  
 01484 RCV U 2666  I  
 01489 TSL 1 01 2609 26 9-----BR14  
 01494 LDA # 1374-----  
 01499 CMP 4 2842   
 01504 TRE L 1519-----T09  
 01509 AAM @ 01 1374 13X4   
 01514 TR 1 1369

SECTION 2-PICKUP INTERROGATION

000 - 80000

TEST ADDRESS

TEST FOR NO 1 BIT

-----P-----

2 BIT

-----P-----

4 BIT

-----P-----

8 BIT

-----P-----

A BIT

-----P-----

B BIT

P-----

C BIT

TEST BIT BREAKDOWN FOR -----  
 NO ERROR

CURRENT S-2 ERROR ADDR

•NB•

TEST FOR 159999  
 SECTION 2 COMPLETE

INCREASE TEST ADDR BY 00001

J08 014534.510 01519 TAA I 01 1544 15U4-----  
 01524 SEL 2 0500  
 01529 WR R 9123  
 01534 TMC 0 11 1539 1NC9-----I  
 01539 TRC 0 12 1544 1E44-----Y  
 01544 TAF I 06 1559 1VN9-----I  
 01549 TAB I 02 0814 08J4-----C05  
 01554 TR 1 0824-----D05  
 01559 RCV U 2601-----I  
 01564 TSL 1 01 2114 21/4-----AQ12  
 01569 TR 1 1549  
 01574 RAD H 02 2736 27L6

SECTION 2 COMPLETE  
 PRINT TAB RESULTS IF 0916 ON  
 REPEAT SECTION 2 IF 0912 ON  
 GO TO SECTION 3

SET TAB PRINT VARIABLE TR BACK  
 GO TO TABULATION PRINT AREA

5

DECREASE CHK ADDR BY 4  
SET CHK ADDR

SECTION 1 - DROP INTERROGATION

CHECK ADDRESS

TEST FOR NO 1 BIT

-----D

TEST FOR NO 2 BIT

-----D-

TEST FOR NO 4 BIT

-----D--

TEST FOR NO 8 BIT

---D---

TEST FOR NO A BIT

--D----

TEST FOR NO B BIT

-D----

TEST FOR NO C BIT

D----

TEST FOR -----  
 NO ERROR-IF EQUAL

DECREASE CTR BY 1

INCREASE CHK ADDR BY 1

U06.....01574 RAD H 02 2736 27L6  
 01579 LDA \* 1104  
 01584 SUB P 2735  
 01589 ULA \* 1599  
 01594 UNL 7 07 2901 2Z&1  
 01599 RCV U 0000  
 01604 TZB . 01 1614 16/4-----  
 01609 TR 1 1619-----I  
 01614 UNL 7 08 2901 2R01-----I  
 01619 TZB . 02 1629 16K9-----I  
 01624 TR 1 1634-----I  
 01629 UNL 7 08 2900 2R00-----I  
 01634 TZB . 03 1644 16D4-----I  
 01639 TR 1 1649-----I  
 01644 UNL 7 08 2899 2Q99-----I  
 01649 TZB . 04 1659 1W59-----I  
 01654 TR 1 1664-----I  
 01659 UNL 7 08 2898 2Q98-----I  
 01664 TZB . 05 1674 1WX4-----I  
 01669 TR 1 1679-----I  
 01674 UNL 7 08 2897 2Q97-----I  
 01679 TZB . 06 1689 1WQ9-----I  
 01684 TR 1 1694-----I  
 01689 UNL 7 08 2896 2Q96-----I  
 01694 TZB . 07 1704 1X&4-----I  
 01699 TR 1 1714-----I  
 01704 UNL 7 08 2895 2Q95-----I  
 01709 TR 1 1749-----W10  
 01714 CMP 4 07 2901 2Z&1-----I  
 01719 TRE L 1729-----I  
 01724 TR 1 1749-----W10  
 V10....01729 SUB P 02 2732 27L2-----I  
 01734 TRZ N 02 1174 11P4-----M07  
 01739 AAM @ 01 1599 15Z9  
 01744 TR 1 1594

W09 gscans/g00 01749 LDA # 1599  
 01754 UNL 7 2886  
 01759 LOD 8 04 9193 9/93  
 01764 UNL 7 04 2892 2Y92  
 I  
 01769 RCV U 2666  
 01774 TSL 1 01 2609 26 9 -----BR14  
 01779 TR 1 1729 -----V09

CURRENT S-1 ERROR ADDR  
 INTO T-O  
 •AB•

X08  
 X21  
 X24 01784 LOD 8 04 3149 3/49  
 01789 TR 1 1849 -----  
 Y24 01794 LOD 8 04 3153 3/53  
 01799 TR 1 1849 -----  
 Z25 01804 LOD 8 04 3157 3/57  
 01809 TR 1 1849 -----  
 AA25 01814 LOD 8 04 3161 3/61  
 01819 TR 1 1849 -----  
 AB25 01824 LOD 8 04 3165 3/65  
 01829 TR 1 1849 -----  
 AC25 01834 LOD 8 04 3169 3/69  
 01839 TR 1 1849 -----  
 AD25 01844 LOD 8 04 3173 3/73  
 01849 UNL 7 04 2084 2 84  
 I

INITIAL BIT PLANE TAB ADDR SET

01854 SET B 13 0006 0& 6  
 01859 SET B 0001  
 01864 LOD 8 2886  
 01869 CMP 4 2919  
 01874 TRE L 2004 -----AJ11  
 01879 CMP 4 2924  
 01884 TRE L 2014 -----AK11  
 01889 CMP 4 2920  
 01894 TRE L 1994 -----AH11  
 01899 CMP 4 2925  
 01904 TRE L 2024 -----AL11  
 01909 CMP 4 2921  
 01914 TRE L 1984 -----AG11  
 01919 CMP 4 2926  
 01924 TRE L 2034 -----AM11  
 01929 CMP 4 2922  
 01934 TRE L 1974 -----AF11  
 01939 CMP 4 2927  
 01944 TRE L 2044 -----AN11  
 01949 CMP 4 2923  
 01954 TRE L 1964 -----AE11  
 01959 TR 1 2054 -----AP11  
 I

UNITS POSITION OF ADDR  
 TEST FOR 0  
 TEST FOR 5  
 TEST FOR 1  
 TEST FOR 6  
 TEST FOR 2  
 TEST FOR 7  
 TEST FOR 3  
 TEST FOR 8  
 TEST FOR 4  
 MUST BE CHAR 9

gs file/00014535.dne 01964 LOD 8 13 2729 2GS9 □  
 AF10..... 01974 LOD 8 13 2723 2GS3 □  
 □ 01979 TR 1 2059-----  
 AG10..... 01984 LOD 8 13 2717 2G/7 □  
 □ 01989 TR 1 2059-----  
 AH10..... 01994 LOD 8 13 2711 2G/1 □  
 □ 01999 TR 1 2059-----  
 AJ10..... 02004 LOD 8 13 2705 2G 5 □  
 □ 02009 TR 1 2059-----  
 AK10..... 02014 LOD 8 13 2699 2FZ9 □  
 □ 02019 TR 1 2059-----  
 AL10..... 02024 LOD 8 13 2693 2FZ3 □  
 □ 02029 TR 1 2059-----  
 AM10..... 02034 LOD 8 13 2687 2FY7 □  
 □ 02039 TR 1 2059-----  
 AN10..... 02044 LOD 8 13 2681 2FY1 □  
 □ 02049 TR 1 2059-----  
 AP10..... 02054 LOD 8 13 2675 2FX5 □  
 □ 02059 CMP 4 15 2825 2HB5 □  
 □ 02064 TRE L 2074-----  
 □ 02069 ADD G 13 2736 2GT6 □  
 □ 02074 AAM @ 13 2084 2&Y4 □  
 □ 02079 SET B 13 0005 0& 5 □  
 □ 02084 LOD 8 13 0000 0& 0 □  
 □ 02089 ADD G 13 2732 2GT2 □  
 □ 02094 LOD 8 04 2084 2 84 □  
 □ 02099 UNL 7 04 2104 2/04 □  
 □ 02104 UNL 7 13 0000 0& 0 □  
 □ 02109 TR 1 1334-----  
 P08 VARIABLE RETRACE TRANSFER

000720 CHAR 4  
 000640 CHAR 3  
 000560 CHAR 2  
 000480 CHAR 1  
 000400 CHAR 0  
 000320 CHAR 5  
 000240 CHAR 6  
 000160 CHAR 7  
 000080 CHAR 8  
 000000 CHAR 9  
 TEST ASU 15 FOR D  
 ADD 5 TO SETUP FOR PICK  
 ACTUAL TABULATION AREA  
 ADD TAB INCREMENT TO VAR LOADER  
 VARIABLE TAB COUNT LOADER  
 INCREASE COUNT BY 1  
 SET REPLACER  
 REPLACE COUNT IN TABLE  
 VARIABLE RETRACE TRANSFER

## TEST TABLE FOR ERRORS

Q09ans/g0014766.png

AQ09	□				
AQ20	□				
AQ55	□				
AQ56	□				
AQ68	□				
AQ74	□				
AQ75	□				
AQ81	□				
AQ95.....	• 02114 SEL 2 0500	□			
	□ 02119 RAD H 02 2742 27M2	□			
	□ 02124 SET B 13 0006 0& 6	□			
	□ 02129 LOD 8 13 2681 2FY1	□			
	□ 02134 LOD 8 04 3177 3/77	□			
	□ 02139 UNL 7 04 2154 2/54	□			
	□ 02144 SET B 0076	□			
	□ 02149 LOD 8 3145	□			
	• 02154 CMP 4 0000	□			
I	02159 TRE L 2169-----	■			TEST FOR ALL ZEROES IN TABLE
I	02164 TR 1 2369-----	■			DEFINITE ERROR-PRINT TABLE
I	02169 SUB P 02 2732 27L2	■	■	I	DECREASE CTR BY 1
I	02174 TRZ N 02 2184 21Q4	■	■	I	NO ERRORS MADE
I	02179 TR 1 2194-----	■	■	I	
I	02184 TAE I 05 2594 2VZ4	■	■	I	BYPASS-NO ERR-PRINT IF 0915 ON
I	02189 TR 1 2354-----	■	■	I	
I	02194 AAM @ 13 2154 2AV4	■	■	I	
+--02199 TR 1 2154	□			I	INCR CMP ADDR BY 000080
CHAR ERROR LINE PRINT SELECT					
AR13.....	• 02204 CMP 4 3617	□			TEST CHAR 9 LINE FOR ALL ZEROE
	□ 02209 TRE L 2219-----	■			BYPASS PRINT- IF EQUAL
	□ 02214 TR 1 2424-----	■			
	• 02219 CMP 4 3697	■	■	I	
	□ 02224 TRE L 2234-----	■	■	I	
	□ 02229 TR 1 2434-----	■	■	I	
	• 02234 CMP 4 3777	■	■	I	
	□ 02239 TRE L 2249-----	■	■	I	
	□ 02244 TR 1 2444-----	■	■	I	
	• 02249 CMP 4 3857	■	■	I	
	□ 02254 TRE L 2264-----	■	■	I	
	□ 02259 TR 1 2454-----	■	■	I	
	• 02264 CMP 4 3937	■	■	I	
	□ 02269 TRE L 2279-----	■	■	I	
	□ 02274 TR 1 2464-----	■	■	I	
	• 02279 CMP 4 4337	■	■	I	
	□ 02284 TRE L 2294-----	■	■	I	
	□ 02289 TR 1 2474-----	■	■	I	
	• 02294 CMP 4 4257	■	■	I	
	□ 02299 TRE L 2309-----	■	■	I	
	□ 02304 TR 1 2484-----	■	■	I	
	• 02309 CMP 4 4177	■	■	I	
	□ 02314 TRE L 2324-----	■	■	I	
	□ 02319 TR 1 2494-----	■	■	I	
	• 02324 CMP 4 4097	■	■	I	
	□ 02329 TRE L 2339-----	■	■	I	
	□ 02334 TR 1 2504-----	■	■	I	
	• 02339 CMP 4 4017	■	■	I	
	□ 02344 TRE L 2519-----	■	■	I	
	□ 02349 TR 1 2514-----	■	■	I	
TEST CHAR 0 LINE					

## PRINT TABULATED RESULTS

NO ERRORS  
BLANK SPACERBLANK SPACER  
80000-159999 BP 00-70  
BLANK SPACER  
CONTINUE TAB PRINT IF 0916 ONBP -C- -B- -A- -8- -4- -2- -1-  
DROP PICK  
CHR-----  
CONTINUE TAB PRINT IF 0916 ON  
BLANK SPACER9- 00 01 02 03 04 05 06  
8- 07 08 09 10 11 12 13  
7- 14 15 16 17 18 19 20  
6- 21 22 23 24 25 26 27  
5- 28 29 30 31 32 33 344- 36 37 38 39 40 41 42  
3- 43 44 45 46 47 48 49  
2- 50 51 52 53 54 55 56  
1- 57 58 59 60 61 62 63  
0- 64 65 66 67 68 69 70  
BLANK SPACER  
CONTINUE TAB PRINT IF 0916 ON

MAR Y	MAR X	SEGMENTS ZAB	
DROP	PICK	DROP	PICK
3-			
5-	4-		SA-
6-	8-		SB-
7-	9-		SG-
10-	14-		SD-
11-	15-		
12-	16-		
13-	17-		

BLANK SPACER

gains/g0014536 ppmooooooooooooooo  
 BB12..... 02354 WR R 3255  
 □ 02359 WR R 3270  
 □ 02364 TR 1 2594-----  
 BC12..... 02369 WR R 3270  
 □ 02374 WR R 3225  
 □ 02379 WR R 3270  
 □ 02384 TAF I 06 2394 2TR4-----  
 □ 02389 TR 1 2594-----  
 □ 02394 WR R 3280.....  
 □ 02399 WR R 3365  
 □ 02404 WR R 3450  
 □ 02409 TAF I 06 2204 2S-4-----  
 □ 02414 WR R AR12  
 □ 02419 TR 1 3270  
 BD12..... 02424 WR R 3540  
 □ 02429 TR 1 2219-----  
 BE12..... 02434 WR R AS12  
 □ 02439 TR 1 3620  
 BF12..... 02444 WR R AT12  
 □ 02449 TR 1 3700  
 BG12..... 02454 WR R AU12  
 □ 02459 TR 1 3780  
 BH12..... 02464 WR R AV12  
 □ 02469 TR 1 3860  
 BJ12..... 02474 WR R AW12  
 □ 02479 TR 1 2294-----  
 BK12..... 02484 WR R AX12  
 □ 02489 TR 1 4180  
 BL12..... 02494 WR R AY12  
 □ 02499 TR 1 2309-----  
 BM12..... 02504 WR R AZ12  
 □ 02509 TR 1 4100  
 BN12..... 02514 WR R BA12  
 □ 02519 WR R 4020  
 BP12..... 02524 TAF I 06 2339-----  
 □ 02529 TR 1 3940  
 □ 02534 WR R 3270  
 □ 02539 WR R 2534 2VL4-----  
 □ 02544 WR R 2594-----  
 □ 02549 WR R 8360.....  
 □ 02554 WR R 8435  
 □ 02559 WR R 8510  
 □ 02564 WR R 8585  
 □ 02569 WR R 8605  
 □ 02574 WR R 8680  
 □ 02579 WR R 8755  
 □ 02584 WR R 8830  
 □ 02589 WR R 8905  
 □ 02594 TMC O 11 8945  
 □ 02599 TRC O 12 8985  
 □ 02604 TR 1 3270  
 BQ12..... 02594 2NI9-----  
 □ 02599 2F04-----  
 □ 02604 TR 1 1249-----N07 VARIABLE TRANSFER



gans/g001453 sing  
 2 006 02675 000000  
 2 006 02681 000080  
 2 006 02687 000160  
 2 006 02693 000240  
 2 006 02699 000320  
 2 006 02705 000400  
 2 006 02711 000480  
 2 006 02717 000560  
 2 006 02723 000640  
 2 006 02729 000720  
 2 002 02731 &0  
 2 001 02732 &1  
 2 001 02733 &2  
 2 001 02734 &3  
 2 001 02735 &4  
 2 001 02736 &5  
 2 001 02737 &6  
 2 001 02738 &7  
 2 001 02739 &8  
 2 001 02740 &9  
 2 002 02742 &10  
 2 002 02744 &14  
 2 002 02746 &19  
 2 004 02750 &799  
 2 003 02753 &100  
 2 002 02755 &60  
 2 002 02757 &63  
 2 002 02759 &70  
 2 002 02761 &79  
 2 006 02767 &000001  
 2 006 02773 &000005  
 2 007 02780 111111  
 2 005 02789 00 0004 - 00004  
 2 004 02793 000  
 2 001 02794 # - 80000  
 2 005 02799 000U - 80004  
 2 005 02804 000Z - 80009  
 2 005 02809 001U - 80014  
 2 005 02814 001Z - 80019  
 2 005 02819 080U - 80804  
 2 005 02824 800U - 88004  
 2 004 02828 DROP  
 2 004 02832 PICK  
 2 004 02836 0901  
 2 006 02842 159999  
 2 006 02848 099999  
 2 001 02849 □ TEN  
 2 001 02850 □ GROUP  
 2 001 02851 □ MARKS  
 2 001 02852 □  
 2 001 02853 □  
 2 001 02854 □  
 2 001 02855 □  
 2 001 02856 □  
 2 001 02857 □  
 2 001 02858 □  
 2 010 02868 V-V-VV-V-V ALT PLANE SETUP CA41 B82  
 2 010 02878 -V-V--V-V- ALT PLANE SETUP B82 CA41  
 2 002 02880 ●  
 2 006 02886 000000 ERROR ADDRESS  
 2 002 02888 XXXX CHAR IDENT •AB• •NB• SB--IS  
 2 004 02892 -----  
 2 002 02894  
 2 007 02901  
 2 001 02902 □ BIT BREAKDOWN  
 2 015 02917 901-902 TO PROG  
 2 001 02918 □  
 2 010 02928 0123456789 TABULATION CONSTANT AREA

2 006 02934  
 2 006 02940  
 gscans/g0014764.png

000006

000012

2 006 02946  
 2 006 02952  
 2 006 02958  
 2 006 02964  
 2 006 02970  
 2 006 02976  
 2 006 02982  
 2 006 02988  
 2 006 02994  
 2 006 03000  
 2 006 03006

000007

000013

000020

000026

000033

000039

000046

000052

000059

000065

000075

2 031 03037 0 0 0 0 0 0 0 0 0  
 2 032 03069 0 0 0 0 0 0 0 0 0  
 2 038 03107 0 0 0 0 0 0 0 0 0  
 2 038 03145 0 0 0 0 0 0 0 0 0

3 03149 13 3546 3EU6 CHAR 9-C BIT D TAB START ADDR  
 3 03153 13 3557 3EV7 B BIT  
 3 03157 13 3568 3EW8 A BIT  
 3 03161 13 3579 3EX9 8 BIT  
 3 03165 13 3590 3EZ0 4 BIT  
 3 03169 13 3601 3F1 2 BIT  
 3 03173 13 3612 3F2 1 BIT  
 3 03177 3617 3617 CHAR 9-1 BIT PICK TAB ADDR

2 005 03184 00 0030  
 2 005 03189 0035  
 2 005 03194 0090  
 2 005 03199 0120  
 2 005 03204 0890  
 2 005 03209 1120  
 2 005 03214 1000  
 2 005 03219 8890  
 2 005 03224 00  
 2 022 03246 80000-159999 BP 00-70  
 2 001 03247 □  
 2 005 03254 00 NO ERRORS  
 2 009 03263 □  
 2 001 03264 BLANK SPACER  
 2 005 03269 00  
 2 001 03270 □  
 2 001 03271 □  
 2 005 03279 00 BP -C- -  
 2 018 03297 B- -A- -  
 2 022 03319 8- -4- -  
 2 022 03341 2- -1- -  
 2 013 03354 □  
 2 001 03355

2 005 03364 00 DROP PICK DROP  
 2 018 03382 PICK DROP PICK DROP  
 2 022 03404 PICK DROP PICK DROP  
 2 022 03426 PICK DROP PICK  
 2 016 03442 PICK  
 2 001 03443 □

2 005 03449 00 CHR-----  
 2 012 03461 -----  
 2 022 03483 -----  
 2 022 03505 -----  
 2 022 03527 -----  
 2 001 03528 □

2 005 03534 00 -9- 0 0 0 CHAR -9-  
 2 004 03538 C BIT PL 0  
 2 002 03540  
 2 011 03551  
 2 011 03562 0 BIT PL 1

2	011	03573
2	011	03584
14230	long	03595
2	011	03606
2	011	03617
2	001	03618
2	002	03620
2	011	03631
2	011	03642
2	011	03653
2	011	03664
2	011	03675
2	011	03686
2	011	03697
2	001	03698
2	002	03700
2	011	03711
2	011	03722
2	011	03733
2	011	03744
2	011	03755
2	011	03766
2	011	03777
2	001	03778
2	002	03780
2	011	03791
2	011	03802
2	011	03813
2	011	03824
2	011	03835
2	011	03846
2	011	03857
2	001	03858
2	002	03860
2	011	03871
2	011	03882
2	011	03893
2	011	03904
2	011	03915
2	011	03926
2	011	03937
2	001	03938
2	002	03940
2	011	03951
2	011	03962
2	011	03973
2	011	03984
2	011	03995
2	011	04006
2	011	04017
2	001	04018
2	002	04020
2	011	04031
2	011	04042
2	011	04053
2	011	04064
2	011	04075
2	011	04086
2	011	04097
2	001	04098
2	002	04100
2	011	04111
2	011	04122
2	011	04133
2	011	04144
2	011	04155
2	011	04166
2	011	04177
2	001	04178
2	002	04180
2	011	04191
2	011	04202
2	011	04213

2 032 04884  
2 032 04885  
2 032 04886  
2 032 04887  
2 032 04888  
2 032 04889  
2 032 04890  
2 032 04891  
2 032 04892  
2 032 04893  
2 032 04894  
2 032 04895  
2 032 04896  
2 032 04897  
2 032 04898  
2 032 04899  
2 061 04884  
2 061 04885  
2 061 04886  
2 061 04887  
2 061 04888  
2 061 04889  
2 061 04890  
2 061 04891  
2 061 04892  
2 061 04893  
2 061 04894  
2 061 04895  
2 061 04896  
2 061 04897  
2 061 04898  
2 061 04899

CMR -4-

gsons/g0014539.png

SECTIONS 3 AND 4  
COMMON EQUAL INTERROGATION

BT06.....	04344 LOD 8 04 2799 2X99	000U 80004
	04349 UNL 7 04 4359 4T59	SET TEST ADDR
	04354 SET B 0005	TEST ADDRESS
I	04359 LOD 8 0000	SECTION 4 SWITCH
I	04364 NOP A 4384-----	TEST FOR V-V-V
I	04369 CMP 4 2868	BIT DROP OR PICK -IF NOT EQUAL
I	04374 TRE L 4399-----	TEST FOR -V-V-
I	04379 TR 1 4884-----CB21	BIT DROP OR PICK -IF NOT EQUAL
I	04384 CMP 4 2878-----	COMMON C BIT INTERROGATION
I	04389 TRE L 4399-----	5
I	04394 TR 1 4884-----CB21	LOD TEST ADDR
I	04399 RAD H 02 2736 27L6-----	REDUCE BY 4
I	04404 LDA # 4359	SET CHK ADDR
I	04409 SUB P 2735	SECTION 4 SWITCH
I	04414 ULA * 4444	RESET ALTERNATE SWITCH
I	04419 NOP A 4439-----	SET ALTERNATE SWITCH
I	04424 SGN T 4445	CHECK ADDRESS
I	04429 ADM 6 4445	SWITCH-ALTERNATE INTERROGATION
I	04434 TR 1 4444-----	TEST V FOR C BIT DROP - ERROR
I	04439 SGN T 4445-----	OK
I	04444 RCV U 0000-----	SET ALTERNATE SWITCH
I	04449 NOP A 4469-----	TEST - FOR NO C BIT PICK - OK
I	04454 TZB . 07 4649 4WD9-----BY20	ERROR
BU21...	04459 SGN T 4445	RESET ALTERNATE SWITCH
	04464 TR 1 4489-----	DECREASE CTR BY 1
	04469 TZB . 07 4479 4UG9-----	INCREASE CHK ADDR BY 00001
	04474 TR 1 4659-----BZ20	
BV21...	04479 SGN T 4445-----	
	04484 ADM 6 4445	
	04489 SUB P 02 2732 27L2-----	
	04494 TRZ N 02 4509 45-9-----	
	04499 AAM @ 01 4444 44U4	
	04504 TR 1 4444	
W22...	04509 LDA # 4359-----	LOD TEST ADDR
	04514 CMP 4 2842	TEST FOR 159999
	04519 TRE L 4534-----BX20	
	04524 AAM @ 06 4359 4TN9	INCREASE TEST ADDR BY 00005
	04529 TR 1 4354	

SECTION 4 SWITCH

BX19..... 04534 NOP A 4594-----  
 gscans/g001 04539 TAA I 01 4564 45W4-----  
 04544 SEL 2 0500 -----  
 04549 WR R 9127 -----  
 04554 TMC O 11 4559 4NE9-----  
 04559 TRC O 12 4564 4E64-----  
 04564 TAF I 06 4579 4VP9-----  
 04569 TAB I 02 0824 08K4-----D05  
 04574 TR 1 0834-----E05  
 04579 RCV U 2601-----  
 04584 TSL 1 01 2114 21/4-----AQ12  
 -04589 TR 1 4569 -----  
 04594 TAA I 01 4619 46/9-----  
 04599 SEL 2 0500 -----  
 04604 WR R 9131 -----  
 04609 TMC O 11 4614 40A4-----  
 04614 TRC O 12 4619 4F19-----  
 04619 TAF I 06 4634 4WL4-----  
 04624 TAB I 02 0834 08L4-----E05  
 04629 TR 1 9429-----EH44  
 04634 RCV U 2601-----  
 04639 TSL 1 01 2114 21/4-----AQ12  
 -04644 TR 1 4624 -----

SECTION 3 COMPLETE

PRINT TAB RESULTS IF 0916 ON  
REPEAT SECTION 3 IF 0912 ON  
GO TO SECTION 4SET TAB PRINT VARIABLE TR BACK  
GO TO TABULATION PRINT AREA

SECTION 4 COMPLETE

PRINT TAB RESULTS IF 0916 ON  
REPEAT SECTION 4 IF 0912 ON  
GO TO SECTION 5SET TAB PRINT VARIABLE TR BACK  
GO TO TABULATION PRINT AREASECTIONS 3 AND 4  
COMMON C BIT DROP OR PICK AREA

D FOR DROP INTO T-O D-----

P FOR PICK INTO T-O P-----

----- INTO T-O

X..X INTO T-O

TEST T-O FOR D - DROP

- SHOULD-BE CHAR

V SHOULD-BE CHAR  
INTO T-O

NEXT PAGE

BY19..... 04649 UNL 7 08 2895 2Q95 D  
 04654 TR 1 4664-----  
 04659 UNL 7 09 2895 2QZ5 D  
 04664 SET B 0006-----  
 04669 LOD 8 3527 -----  
 04674 UNL 7 2901 -----  
 04679 SET B 0002 -----  
 04684 LOD 8 2880 -----  
 04689 UNL 7 2891 -----  
 04694 SET B 0001 -----  
 04699 CMP 4 08 2895 2Q95 D  
 04704 TRE L 4719-----  
 04709 LOD 8 2878 -----  
 04714 TR 1 4724-----  
 04719 LOD 8 2868-----  
 04724 UNL 7 2889-----

gns/g0014540 04729 LDA # 4444  
 04734 UNL 7 2886  
 04739 ULA \* 4749  
 04744 SET B 0001  
 04749 LOD 8 0000  
 04754 UNL 7 2892  
 04759 TMC O 11 4764 4PF4--  
 04764 TR 1 4784-----  
 04769 CMP 4 08 2895 2Q95  
 04774 TRE L 4459-----  
 04779 TR 1 4479-----  
 04784 TAA I 01 4809 48 9-----  
 04789 SEL 2 0500  
 04794 WR R 2881  
 04799 TMC O 11 4804 4Q&4--  
 04804 TRC O 12 4809 4H09-----  
 04809 TAE I 05 4769 4XW9-----  
 04814 RCV U 2106  
 04819 TSL I 01 4849 48U9-----  
 04824 RCV U 7686  
 04829 TSL I 01 5714 57/4-----CM26  
 04834 RCV U 17716 X716  
 04839 TSL I 01 17289 X2Y9-----JN86  
 04844 TR 1 4769  
 04849 SET B 15 0001 0&1  
 04854 CMP 4 08 2895 2Q95  
 04859 TRE L 4874-----  
 04864 LOD 8 15 2829 2HB9  
 04869 TR 1 1784-----X10  
 04874 LOD 8 15 2825 2HB5  
 04879 TR 1 1784-----X10  
 CA57  
 CA70 04849 SET B 15 0001 0&1  
 04854 CMP 4 08 2895 2Q95  
 04859 TRE L 4874-----  
 04864 LOD 8 15 2829 2HB9  
 04869 TR 1 1784-----X10  
 04874 LOD 8 15 2825 2HB5  
 04879 TR 1 1784-----X10  
 CB19 04884 RAD H 02 2736 27L6  
 04889 LDA # 4359  
 04894 SUB P 2735  
 04899 ULA \* 4934  
 04904 NOP A 4924-----  
 04909 SGN T 4935  
 04914 ADM 6 4935  
 04919 TR 1 4929-----CC22  
 04924 SGN T 4935-----  
 5  
 LOD TEST ADDR  
 REDUCE BY 4  
 SET CHK ADDR  
 SECTION 4 SWITCH  
 RESET ALTERNATE SWITCH  
 SET ALTERNATE SWITCH

NEXT PAGE

CF22.....	05134 SET B 0001	V	SHOULD-BE CHAR
	05139 LOD 8 2868	X..X	INTO T-0
	05144 UNL 7 2889		
	05149 RCV U 5416		
	05154 TSL 1 01 5309 53 9		
CG24.....	05159 TR 1 4974	CD22	
	05164 LDA # 4934		CHAR MINUS ZERO DROP OR PICK
	05169 ULA * 5189		0101010
	05174 SET B 0007		LOD CHK ADDR
	05179 LOD 8 3527		SET BIT CHECK ADDR
	05184 UNL 7 2901		-----
	05189 RCV U 0000		INTO T-0
	05194 TZB 01 5204 52 4		BIT CHECK ADDRESS
	05199 UNL 7 09 2901 2R 1		TEST FOR NO 1 BIT PICK
	05204 TZB 02 5214 52J4		-----P-----
	05209 TR 1 5219		TEST FOR 2 BIT DROP
	05214 UNL 7 08 2900 2R00		-----D-----
	05219 TZB 03 5229 52B9		TEST FOR NO 4 BIT PICK
	05224 UNL 7 09 2899 2QZ9		-----P-----
	05229 TZB 04 5239 5S39		TEST FOR 8 BIT DROP
	05234 TR 1 5244		-----D-----
	05239 UNL 7 08 2898 2Q98		TEST FOR NO A BIT PICK
	05244 TZB 05 5254 5SV4		-----P-----
	05249 UNL 7 09 2897 2QZ7		TEST FOR B BIT DROP
	05254 TZB 06 5264 5S04		-----D-----
	05259 TR 1 5269		TEST FOR NO C BIT PICK
	05264 UNL 7 08 2896 2Q96		-----P-----
	05269 TZB 07 5279 5SG9		
	05274 UNL 7 09 2895 2QZ5		
	05279 SET B 0001		SHOULD-BE CHAR
	05284 LOD 8 2878		INTO T-0
	05289 UNL 7 2889		
	05294 RCV U 5416		
	05299 TSL 1 01 5309 53 9		
	05304 TR 1 4984	CE22	
	05309 SET B 0002		
	05314 LOD 8 2880		
	05319 UNL 7 2891		

NEXT PAGE

scans/g001 05324 LDA # 4934  
 05329 UNL 7 2886  
 05334 ULA \* 5344  
 □  
 □  
 □ 05339 SET B 0001  
 □ 05344 LOD 8 0000  
 □ 05349 UNL 7 2892  
 □ 05354 TMC O 11 5359 5LE9--  
 □  
 □ 05359 TAA I 01 5384 53Y4--  
 □  
 □ 05364 SEL 2 0500  
 □ 05369 WR R 2881  
 □  
 □ 05374 TMC O 11 5379 5LG9--  
 □ 05379 TRC O 12 5384 5C84--  
 □  
 □ 05384 TAE I 05 5419 5U/9--  
 □  
 □ 05389 RCV U 5706  
 □ 05394 TSL 1 01 5424 54S4--  
 □  
 CJ25 ..... 05399 RCV U 7686  
 05404 TSL 1 01 5714 57/4--CM26  
 □  
 □ 05409 RCV U 17716 X716  
 □ 05414 TSL 1 01 17289 X2Y9--JN86  
 □  
 □ 05419 TR 1 5159--CG23  
 □

ERROR ADDRESS  
 INTO T-O  
 SET VAR ERROR CHAR ADDR

VARIABLE ERROR CHAR ADDR  
 ERRONEOUS CHAR INTO T-O

BYPASS T-O IF 0911 ON  
 000000 X..X -----

BYPASS TABULATION IF 0915 ON

SET VARIABLE TR BACK  
 GO TO BP TAB SETUP AREA

SET MARTAB TR BACK  
 GO TO MARTAB

SET SEGTAB RETURN

VARIABLE CHAR TR BACK

ALL SECTIONS  
 BIT PLANE DROP AND PICK TABULA

CK14  
 CK65  
 CK72  
 CK78  
 CK86  
 CK96 ..... 05424 SET B 15 0001 0&&1--  
 □  
 □  
 □ 05429 RCV U 2895  
 □ 05434 TZB : 03 5469 54F9--  
 □ 05439 TZB : 05 5454 5UV4--  
 □  
 □ 05444 LOD 8 15 2825 2HB5  
 □ 05449 TR 1 5459--  
 □ 05454 LOD 8 15 2829 2HB9  
 □  
 □ 05459 RCV U 2106--  
 □ 05464 TSL 1 01 1784 17Y4--X10  
 □  
 □ 05469 RCV U 2896--  
 □ 05474 TZB : 03 5509 55&9--CL25  
 □ 05479 TZB : 05 5494 5UZ4--  
 □  
 □ 05484 LOD 8 15 2825 2HB5  
 □ 05489 TR 1 5499--  
 □ 05494 LOD 8 15 2829 2HB9  
 □  
 □ 05499 RCV U 2106--  
 □ 05504 TSL 1 01 1794 17Z4--Y10  
 □

TEST C BIT T-O POS FOR D OR P  
 TEST FOR NO 4 BIT-OK-NO D OR P  
 TEST FOR NO A BIT-LOD P IF NOT

D INTO ASU 15

P INTO ASU 15

SET VAR RETRACE TR BACK

TEST B BIT T-O POSITION

g. GL24 550014542 550014542  
05509 RCV U 2897 □  
05514 TZB • 03 5549 55D9---  
05519 TZB • 05 5534 5VT4---  
05524 LOD 8 15 2825 2HB5 □ I  
05529 TR 1 5539---  
05534 LOD 8 15 2829 2HB9.□ I I  
05539 RCV U 2106.----  
05544 TSL 1 01 1804 18 4---Z10  
05549 RCV U 2898.----  
05554 TZB • 03 5589 55H9---  
05559 TZB • 05 5574 5VX4---  
05564 LOD 8 15 2825 2HB5 □ I  
05569 TR 1 5579---  
05574 LOD 8 15 2829 2HB9.□ I I  
05579 RCV U 2106.----  
05584 TSL 1 01 1814 18/4---AA10  
05589 RCV U 2899.----  
05594 TZB • 03 5629 56B9---  
05599 TZB • 05 5614 5W/4---  
05604 LOD 8 15 2825 2HB5 □ I  
05609 TR 1 5619---  
05614 LOD 8 15 2829 2HB9.□ I I  
05619 RCV U 2106.----  
05624 TSL 1 01 1824 18S4---AB10  
05629 RCV U 2900.----  
05634 TZB • 03 5669 56F9---  
05639 TZB • 05 5654 5WV4---  
05644 LOD 8 15 2825 2HB5 □ I  
05649 TR 1 5659---  
05654 LOD 8 15 2829 2HB9.□ I I  
05659 RCV U 2106.----  
05664 TSL 1 01 1834 18T4---AC10  
05669 RCV U 2901.----  
05674 TZB • 03 5709 57&9---  
05679 TZB • 05 5694 5WZ4---  
05684 LOD 8 15 2825 2HB5 □ I  
05689 TR 1 5699---  
05694 LOD 8 15 2829 2HB9.□ I I  
05699 RCV U 2106.----  
05704 TSL 1 01 1844 18U4---AD10  
05709 TR 1 5399----CJ24 VARIABLE TR BACK

TEST A BIT T-O POSITION

TEST 8 BIT T-O POSITION

TEST 4 BIT T-O POSITION

TEST 2 BIT T-O POSITION

TEST 1 BIT T-O POSITION

CM08  
CM14  
CM21  
CM24  
CM57  
CM65  
CM70  
CM72  
CM78  
CM86  
CM96.....

05714	SET	B	0006
05719	LOD	8	2886
05724	UNL	7	8265

ERROR ADDRESS  
SET FOR TABULATION

05729	SET	B	0022
05734	LOD	8	8353
05739	UNL	7	8287

RESET MAR TAB LINES

05744	SET	B	0003
05749	LOD	8	8264
05754	CMP	4	8298
05759	TRE	L	7074-----DD33
05764	CMP	4 10	8262 8K02
05769	TRE	L	5799-----
05774	CMP	4 10	8263 8K03 I
05779	TRE	L	5824-----
05784	CMP	4 10	8264 8K04 II
05789	TRE	L	5839-----
05794	TR	1	6559-----CY30

TH-H-T ORDERS OF ADDRESS  
TEST FOR 000  
TH-H-T 842 ALL DOWN--GO TO XTEST FOR 0 IN THOUSANDS  
TH 842 DOWN  
IN HUNDREDS  
TH NOT 0-H 842 DOWN  
IN TENS  
TH NOT 0-H NOT 0-T 842 DOWN  
GO TO MAR Y COND LINE DETERMIN

05799	CMP	4 10	8263 8K03 . . . III
05804	TRE	L	6044-----CQ27
05809	CMP	4 10	8264 8K04 . . . II
05814	TRE	L	6094-----CR28
05819	TR	1	6139-----CS28
05824	CMP	4 10	8264 8K04 . . . . II
05829	TRE	L	6319-----CU29
05834	TR	1	6369-----CV29

TEST FOR 0 IN HUNDREDS  
TH 842 DOWN-H 842 DOWN-T NOT 0  
IN TENS  
TH 842 DOWN-H NOT 0-T 842 DOWN  
TH 842 DOWN-H NOT 0-T NOT 0  
TEST FOR 0 IN TENS  
TH NOT 0-H 842 DOWN-T 842 DOWN  
TH NOT 0-H 842 DOWN-T NOT 0

05839	RCV	U	8262 . . . . .
05844	TZB	• 04	5884 5Y84-----CN27
05849	RCV	U	8263 . . . . .
05854	TZB	• 04	5999 5Z99-----CP27
05859	UNL	7 11	8269 8KF9 . . . . .
05864	UNL	7 11	8270 8KG0 . . . . .
05869	UNL	7 11	8271 8KG1 . . . . .
05874	UNL	7 11	8274 8KG4 . . . . .
05879	TR	1	7074-----DD33

TH NOT 0-H NOT 0-T 842 DOWN  
TEST FOR NO 8000  
NO 800  
8000 UP-800 UP-80 DOWN  
PLACE 1 IN MAR 5  
IN MAR 6  
IN MAR 7  
IN MAR 11  
GO TO X TAB

8000 DOWN-H NOT 0-T 842 DOWN

TEST FOR NO 800  
8000 DOWN-800 UP-80 DOWN  
PLACE 1 IN MAR 5

TEST FOR NO 4000

PLACE 1 IN MAR 10

TEST FOR NO 2000

PLACE 1 IN MAR 11  
GO TO X TAB

8000 DOWN-800 DOWN-80 DOWN

TEST FOR NO 4000

PLACE 1 IN MAR 6

TEST FOR NO 2000

PLACE 1 IN MAR 7

TEST FOR NO 400

PLACE 1 IN MAR 10

TEST FOR NO 200

PLACE 1 IN MAR 11  
GO TO X TAB

8000 UP-800 DOWN-80 DOWN

PLACE 1 IN MAR 5  
IN MAR 7

TEST FOR NO 400

PLACE 1 IN MAR 10

TEST FOR NO 200

PLACE 1 IN MAR 11  
GO TO X TAB

TH 842 DOWN-H 842 DOWN-T NOT 0

TEST FOR NO 80  
8000 DOWN-800 DOWN-80 UP  
PLACE 1 IN MAR 5  
IN MAR 6  
GO TO X TAB

8000 DOWN-800 DOWN-80 DOWN

TEST FOR NO 40

PLACE 1 IN MAR 12  
TEST FOR NO 20

PLACE 1 IN MAR 13  
GO TO X TAB

g ns/g0014543pmn.....  
N26.....  
 □ 05884 RCV U 8263 □  
 □ 05889 TZB • 04 5934 5Z34-■---  
 □ 05894 UNL 7 11 8269 8KF9 □  
 □ 05899 RCV U 8262 □  
 □ 05904 TZB • 03 5914 59A4-■---  
 □ 05909 UNL 7 11 8273 8KG3 □ I  
 □ 05914 RCV U 8262•••••■---  
 □ 05919 TZB • 02 5929 59K9-■---  
 □ 05924 UNL 7 11 8274 8KG4 □ I  
 □ 05929 TR 1 7074-■---  
 DD33

.....  
 □ 05934 RCV U 8262•••••■---  
 □ 05939 TZB • 03 5949 59D9-■---  
 □ 05944 UNL 7 11 8270 8KG0 □ I  
 □ 05949 RCV U 8262•••••■---  
 □ 05954 TZB • 02 5964 5904-■---  
 □ 05959 UNL 7 11 8271 8KG1 □ I  
 □ 05964 RCV U 8263•••••■---  
 □ 05969 TZB • 03 5979 59G9-■---  
 □ 05974 UNL 7 11 8273 8KG3 □ I  
 □ 05979 RCV U 8263•••••■---  
 □ 05984 TZB • 02 5994 59R4-■---  
 □ 05989 UNL 7 11 8274 8KG4 □ I  
 □ 05994 TR 1 7074-■---  
 DD33

CP26.....  
 □ 05999 UNL 7 11 8269 8KF9 □  
 □ 06004 UNL 7 11 8271 8KG1 □  
 □ 06009 RCV U 8263 □  
 □ 06014 TZB • 03 6024 60B4-■---  
 □ 06019 UNL 7 11 8273 8KG3 □ I  
 □ 06024 RCV U 8263•••••■---  
 □ 06029 TZB • 02 6039 60L9-■---  
 □ 06034 UNL 7 11 8274 8KG4 □ I  
 □ 06039 TR 1 7074-■---  
 DD33

CQ26.....  
 □ 06044 RCV U 8264 □  
 □ 06049 TZB • 04 6069 6 69-■---  
 □ 06054 UNL 7 11 8269 8KF9 □ I  
 □ 06059 UNL 7 11 8270 8KG0 □ I  
 □ 06064 TR 1 7074-■---  
 DD33

.....  
 □ 06069 TZB • 03 6079 60G9-■---  
 □ 06074 UNL 7 11 8275 8KG5 □ I  
 □ 06079 TZB • 02 6089 60Q9-■---  
 □ 06084 UNL 7 11 8276 8KG6 □ I  
 □ 06089 TR 1 7074-■---  
 DD33

TH 842 DOWN-H NOT O-T 842 DOWN

RE26ns/g00147586094 RCV U 8263 □  
 □ 06099 TZB • 04 6114 6/14---■ I  
 □ 06104 UNL 7 11 8269 8KF9 □ I  
 □ 06109 TR 1 7074-----DD33  
 □□□□□□□□□□□□□□□□□□□□□□□□□□□□  
 □ 06114 TZB • 03 6124 61B4 ■■■■■ I  
 □ 06119 UNL 7 11 8273 8KG3 □ I  
 □ 06124 TZB • C2 6134 61L4 ■■■■■ I  
 □ 06129 UNL 7 11 8274 8KG4 □ I  
 □ 06134 TR 1 7074■■■■■■■■■■■■■■■■■■ DD33  
 □□□□□□□□□□□□□□□□□□□□□□□□□□□□

TEST FOR NO 800  
 8000 DOWN-800 UP-80 DOWN  
 PLACE 1 IN MAR 5  
 GO TO X TAB

8000 DOWN-800 DOWN-80 DOWN

TEST FOR NO 400

PLACE 1 IN MAR 10  
 TEST FOR NO 200

PLACE 1 IN MAR 11  
 GO TO X TAB

TH 842 DOWN-H NOT O-T NOT 0

CS26.....  
 □ 06139 RCV U 8263 □  
 □ 06144 TZB • 04 6179 6/79---■ I  
 □ 06149 RCV U 8264 □ I  
 □ 06154 TZB • 04 6284 6S84---CT29  
 □ 06159 UNL 7 11 8269 8KF9 □ I  
 □ 06164 UNL 7 11 8270 8KG0 □ I  
 □ 06169 UNL 7 11 8271 8KG1 □ I  
 □ 06174 TR 1 7074-----DD33  
 □□□□□□□□□□□□□□□□□□□□□□□□□□□

TEST FOR NO 800  
 TEST FOR NO 80  
 8000 DOWN-800 UP-80 UP  
 PLACE 1 IN MAR 5  
 IN MAR 6  
 IN MAR 7  
 GO TO X TAB

TH 842 DOWN-800 DOWN-T NOT 0

□ 06179 RCV U 8264•••••■ I  
 □ 06184 TZB • 04 6229 6S29---■ I  
 □ 06189 UNL 7 11 8269 8KF9 □ I  
 □ 06194 UNL 7 11 8270 8KG0 □ I  
 □ 06199 RCV U 8263 □ I  
 □ 06204 TZB • 03 6214 62A4---■ I  
 □ 06209 UNL 7 11 8273 8KG3 □ I  
 □ 06214 TZB • 02 6224 62K4 ■■■■■ I  
 □ 06219 UNL 7 11 8274 8KG4 □ I  
 □ 06224 TR 1 7074■■■■■■■■■■■■■■■■■■ DD33  
 □□□□□□□□□□□□□□□□□□□□□□□□□□□

TEST FOR NO 80  
 8000 DOWN-800 DOWN-80 UP  
 PLACE 1 IN MAR 5  
 IN MAR 6

TEST FOR NO 400  
 PLACE 1 IN MAR 10  
 TEST FOR NO 200

PLACE 1 IN MAR 11  
 GO TO X TAB

8000 DOWN-800 DOWN-80 DOWN

□ 06229 RCV U 8263•••••■ I  
 □ 06234 TZB • 03 6244 62D4---■ I  
 □ 06239 UNL 7 11 8273 8KG3 □ I  
 □ 06244 TZB • 02 6254 62N4 ■■■■■ I  
 □ 06249 UNL 7 11 8274 8KG4 □ I  
 □ 06254 RCV U 8264•••••■ I  
 □ 06259 TZB • 03 6269 62F9---■ I  
 □ 06264 UNL 7 11 8275 8KG5 □ I  
 □ 06269 TZB • 02 6279 62P9 ■■■■■ I  
 □ 06274 UNL 7 11 8276 8KG6 □ I  
 □ 06279 TR 1 7074■■■■■■■■■■■■■■■■■■ DD33  
 □□□□□□□□□□□□□□□□□□□□□□□□□□□

TEST FOR NO 400  
 PLACE 1 IN MAR 10  
 TEST FOR NO 200

PLACE 1 IN MAR 11

TEST FOR NO 40

PLACE 1 IN MAR 12  
 TEST FOR NO 20

PLACE 1 IN MAR 13  
 GO TO X TAB

8000 DOWN-800 UP-80 DOWN-

PLACE 1 IN MAR 5

TEST FOR NO 40

PLACE 1 IN MAR 12  
TEST FOR NO 20PLACE 1 IN MAR 13  
GO TO X TAB

TH NOT 0-H 842 DOWN-T 842 DOW

CT28.....

06284	UNL	7	11	8269	8KF9	□
06289	RCV	U		8264		□
06294	TZB	•	03	6304	63&4	---
06299	UNL	7	11	8275	8KG5	□ I
06304	TZB	•	02	6314	63J4	---
06309	UNL	7	11	8276	8KG6	□ I
06314	TR	1		7074		---

DD33

CU26.....

06319	RCV	U		8262		□
06324	TZB	•	04	6344	6T44	---
06329	UNL	7	11	8269	8KF9	□ I
06334	UNL	7	11	8271	8KG1	□ I
06339	TR	1		7074		---

TEST FOR NO 8000  
8000 UP-800 DOWN-80 DOWN  
PLACE 1 IN MAR 5  
IN MAR 7  
GO TO X TAB

06344	TZB	•	03	6354	63E4	---
06349	UNL	7	11	8270	8KG0	□ I
06354	TZB	•	02	6364	6304	---
06359	UNL	7	11	8271	8KG1	□ I
06364	TR	1		7074		---

8000 DOWN-800 DOWN-80 DOWN  
TEST FOR NO 4000  
PLACE 1 IN MAR 6  
TEST FOR NO 2000  
PLACE 1 IN MAR 7  
GO TO X TAB

CV26.....

06369	RCV	U		8262		□
06374	TZB	•	04	6414	6U14	---
06379	RCV	U		8264		□
06384	TZB	•	04	6519	6V19	---
06389	UNL	7	11	8269	8KF9	□ I
06394	UNL	7	11	8270	8KG0	□ I
06399	UNL	7	11	8271	8KG1	□ I
06404	UNL	7	11	8273	8KG3	□ I
06409	TR	1		7074		---

TH NOT 0-H 842 DOWN-T NOT 0  
TEST FOR NO 8000  
TEST FOR NO 80  
8000 UP-800 DOWN-80 UP  
PLACE 1 IN MAR 5  
IN MAR 6  
IN MAR 7  
IN MAR 10  
GO TO X TAB

06414	RCV	U		8264		□
06419	TZB	•	04	6464	6U64	---
06424	UNL	7	11	8269	8KF9	□
06429	UNL	7	11	8270	8KG0	□
06434	RCV	U		8262		□
06439	TZB	•	03	6449	64D9	---
06444	UNL	7	11	8275	8KG5	□ I
06449	TZB	•	02	6459	64N9	---
06454	UNL	7	11	8276	8KG6	□ I
06459	TR	1		7074		---

8000 DOWN-H 842 DOWN-T NOT 0  
TEST FOR NO 80  
8000 DOWN-800 DOWN-80 UP  
PLACE 1 IN MAR 5  
1 IN MAR 6  
TEST FOR NO 4000  
PLACE 1 IN MAR 12  
TEST FOR NO 2000  
PLACE 1 IN MAR 13  
GO TO X TAB

8000 DOWN-800 DOWN-80 DOWN

CW29.....  
 gscans,g001  
 06464 RCV U 8262 □  
 06469 TZB • 03 6479 64G9---  
 □ 06474 UNL 7 11 8270 8KG0 □ I  
 □ 06479 TZB • 02 6489 64Q9---  
 □ 06484 UNL 7 11 8271 8KG1 □ I  
 □ 06489 RCV U 8264---  
 □ 06494 TZB • 03 6504 65&4---  
 □ 06499 UNL 7 11 8275 8KG5 □ I  
 □ 06504 TZB • 02 6514 65J4---  
 □ 06509 UNL 7 11 8276 8KG6 □ I  
 □ 06514 TR 1 7074---  
 DD33

TEST FOR NO 4000  
 PLACE 1 IN MAR 6  
 TEST FOR NO 2000  
 PLACE 1 IN MAR 7  
 TEST FOR NO 40  
 PLACE 1 IN MAR 12  
 TEST FOR NO 20  
 PLACE 1 IN MAR 13  
 GO TO X TAB

8000 UP-800 DOWN-80 DOWN  
 CX29.....  
 06519 UNL 7 11 8269 8KF9 □  
 06524 UNL 7 11 8271 8KG1 □  
 06529 RCV U 8264---  
 06534 TZB • 03 6544 65D4---  
 □ 06539 UNL 7 11 8275 8KG5 □ I  
 □ 06544 TZB • 02 6554 65N4---  
 □ 06549 UNL 7 11 8276 8KG6 □ I  
 □ 06554 TR 1 7074---  
 DD33

PLACE 1 IN MAR 5  
 IN MAR 7  
 TEST FOR NO 40  
 PLACE 1 IN MAR 12  
 TEST FOR NO 20  
 PLACE 1 IN MAR 13  
 GO TO X TAB

BCD TO BINARY-NO ZEROES  
 DETERMINE MAR Y CONDITION LINE  
 CY26.....  
 06559 RCV U 8262 □  
 06564 TZB • 04 6619 6W19---  
 □ 06569 RCV U 8263 □ I  
 □ 06574 TZB • 04 6899 6Y99---  
 □ 06579 RCV U 8264---  
 □ 06584 TZB • 04 7024 7 24---  
 □ 06589 UNL 7 11 8269 8KF9 □ I  
 □ 06594 UNL 7 11 8270 8KG0 □ I  
 □ 06599 UNL 7 11 8271 8KG1 □ I  
 □ 06604 UNL 7 11 8273 8KG3 □ I  
 □ 06609 UNL 7 11 8274 8KG4 □ I  
 □ 06614 TR 1 7074---  
 DD33

TEST FOR NO 8000  
 TEST FOR NO 800  
 TEST FOR NO 80  
 ALL 8-S UP  
 MUST BE CONDITION LINE 8  
 PLACE 1 IN MAR 5  
 IN MAR 6  
 IN MAR 7  
 IN MAR 10  
 IN MAR 11  
 GO TO X TAB

06619 RCV U 8263---  
 06624 TZB • 04 6684 6W84---  
 06629 RCV U 8264---  
 06634 TZB • 04 6839 6Y39---  
 □ 06639 UNL 7 11 8269 8KF9 □  
 □ 06644 UNL 7 11 8270 8KG0 □  
 □ 06649 UNL 7 11 8271 8KG1 □  
 □ 06654 RCV U 8262---  
 □ 06659 TZB • 03 6669 66F9---  
 □ 06664 UNL 7 11 8275 8KG5 □ I  
 □ 06669 TZB • 02 6679 66P9---  
 □ 06674 UNL 7 11 8276 8KG6 □ I  
 □ 06679 TR 1 7074---  
 DD33

TEST FOR NO 800  
 TEST FOR NO 80  
 8000 DOWN-800 UP-80 UP  
 MUST BE CONDITION LINE 5  
 PLACE 1 IN MAR 5  
 IN MAR 6  
 IN MAR 7  
 TEST FOR NO 4000  
 PLACE 1 IN MAR 12  
 TEST FOR NO 2000  
 PLACE 1 IN MAR 13  
 GO TO X TAB

CZ30..... 06684 RCV U 8264 □  
 gans/g0014545.png 06689 TZB • 04 6759 6X59---  
 □  
 □ 06694 UNL 7 11 8269 8KF9 □ I  
 □ 06699 UNL 7 11 8270 8KG0 □ I  
 □ 06704 RCV U 8262 □ I  
 □ 06709 TZB • 03 6719 67A9---  
 □  
 □ 06714 UNL 7 11 8275 8KG5 □ I  
 □ 06719 TZB • 02 6729 67K9---  
 □  
 □ 06724 UNL 7 11 8276 8KG6 □ I  
 □ 06729 RCV U 8263---  
 □ 06734 TZB • 03 6744 67D4---  
 □  
 □ 06739 UNL 7 11 8273 8KG3 □ I  
 □ 06744 TZB • 02 6754 67N4---  
 □  
 □ 06749 UNL 7 11 8274 8KG4 □ I  
 □ 06754 TR 1 7074---  
 DD33

TEST FOR NO 80  
 8000 DOWN-800 DOWN-80 UP  
 MUST BE CONDITION LINE 4  
 PLACE 1 IN MAR 5  
 IN MAR 6  
 TEST FOR NO 4000  
 PLACE 1 IN MAR 12  
 TEST FOR NO 2000  
 PLACE 1 IN MAR 13  
 TEST FOR NO 400  
 PLACE 1 IN MAR 10  
 TEST FOR NO 200  
 PLACE 1 IN MAR 11  
 GO TO X TAB

□ 06759 RCV U 8262---  
 □ 06764 TZB • 03 6774 67G4---  
 □  
 □ 06769 UNL 7 11 8270 8KG0 □ I  
 □ 06774 TZB • 02 6784 67Q4---  
 □  
 □ 06779 UNL 7 11 8271 8KG1 □ I  
 □ 06784 RCV U 8263---  
 □ 06789 TZB • 03 6799 67I9---  
 □  
 □ 06794 UNL 7 11 8272 8KG3 □ I  
 □ 06799 TZB • 02 6809 68-9---  
 □  
 □ 06804 UNL 7 11 8274 8KG4 □ I  
 □ 06809 RCV U 8264---  
 □ 06814 TZB • 03 6824 68B4---  
 □  
 □ 06819 UNL 7 11 8275 8KG5 □ I  
 □ 06824 TZB • 02 6834 68L4---  
 □  
 □ 06829 UNL 7 11 8276 8KG6 □ I  
 □ 06834 TR 1 7074---  
 DD33

8000 DOWN-800 DOWN-80 DOWN  
 MUST BE CONDITION LINE 1

TEST FOR NO 4000  
 PLACE 1 IN MAR 6  
 TEST FOR NO 2000  
 PLACE 1 IN MAR 7  
 TEST FOR NO 400  
 PLACE 1 IN MAR 10  
 TEST FOR NO 200  
 PLACE 1 IN MAR 11  
 TEST FOR NO 40  
 PLACE 1 IN MAR 12  
 TEST FOR NO 20  
 PLACE 1 IN MAR 13  
 GO TO X TAB

DA30..... 06839 UNL 7 11 8269 8KF9 □  
 06844 RCV U 8262 □  
 06849 TZB • 03 6859 68E9---  
 □  
 □ 06854 UNL 7 11 8273 8KG3 □ I  
 □ 06859 TZB • 02 6869 68O9---  
 □  
 □ 06864 UNL 7 11 8274 8KG4 □ I  
 □ 06869 RCV U 8264---  
 □ 06874 TZB • 03 6884 68H4---  
 □  
 □ 06879 UNL 7 11 8275 8KG5 □ I  
 □ 06884 TZB • 02 6894 68R4---  
 □  
 □ 06889 UNL 7 11 8276 8KG6 □ I  
 □ 06894 TR 1 7074---  
 DD33

8000 DOWN-800 UP-80 DOWN  
 MUST BE CONDITION LINE 2  
 PLACE 1 IN MAR 5  
 TEST FOR NO 4000  
 PLACE 1 IN MAR 10  
 TEST FOR NO 2000  
 PLACE 1 IN MAR 11  
 TEST FOR NO 40  
 PLACE 1 IN MAR 12  
 TEST FOR NO 20  
 PLACE 1 IN MAR 13  
 GO TO X TAB

DB30 ••••• gscans/g00147506904 06899 RCV U 8264 □  
 DB30 ••••• gscans/g00147506904 TZB • 04 6959 6259 ---  
 □ 06909 UNL 7 11 8269 8KF9 □ I  
 □ 06914 UNL 7 11 8270 8KG0 □ I  
 □ 06919 UNL 7 11 8271 8KG1 □ I  
 □ 06924 UNL 7 11 8273 8KG3 □ I  
 □ 06929 RCV U 8263 □ I  
 □ 06934 TZB • 03 6944 69D4 --- I  
 □ 06939 UNL 7 11 8275 8KG5 □ I I  
 □ 06944 TZB • 02 6954 69N4 --- I  
 □ 06949 UNL 7 11 8276 8KG6 □ I I  
 □ 06954 TR 1 7074 --- DD33 GO TO X TAB

TEST FOR 80  
 8000 UP-800 DOWN-80 UP  
 MUST BE CONDITION LINE 7  
 PLACE 1 IN MAR 5  
 IN MAR 6  
 IN MAR 7  
 IN MAR 10

□ 06959 UNL 7 11 8269 8KF9 •••• I  
 □ 06964 UNL 7 11 8271 8KG1 □  
 □ 06969 RCV U 8263 □  
 □ 06974 TZB • 03 6984 69H4 --- I  
 □ 06979 UNL 7 11 8273 8KG3 □ I  
 □ 06984 TZB • 02 6994 69R4 --- I  
 □ 06989 UNL 7 11 8274 8KG4 □ I  
 □ 06994 RCV U 8264 ••••• I  
 □ 06999 TZB • 03 7009 70E9 --- I  
 □ 07004 UNL 7 11 8275 8KG5 □ I  
 □ 07009 TZB • 02 7019 70J9 --- I  
 □ 07014 UNL 7 11 8276 8KG6 □ I  
 □ 07019 TR 1 7074 --- DD33 GO TO X TAB

8000 UP-800 DOWN-80 DOWN  
 MUST BE CONDITION LINE 3

PLACE 1 IN MAR 5  
 IN MAR 7

TEST FOR NO 400

PLACE 1 IN MAR 10  
 TEST FOR NO 200

PLACE 1 IN MAR 11

TEST FOR NO 40

PLACE 1 IN MAR 12  
 TEST FOR NO 20

PLACE 1 IN MAR 13  
 GO TO X TAB

DC30 .....  
 □ 07024 UNL 7 11 8269 8KF9 □  
 □ 07029 UNL 7 11 8270 8KG0 □  
 □ 07034 UNL 7 11 8271 8KG1 □  
 □ 07039 UNL 7 11 8274 8KG4 □  
 □ 07044 RCV U 8264 □  
 □ 07049 TZB • 03 7059 70E9 --- I  
 □ 07054 UNL 7 11 8275 8KG5 □ I  
 □ 07059 TZB • 02 7069 7009 --- I  
 □ 07064 UNL 7 11 8276 8KG6 □ I  
 □ 07069 TR 1 7074 --- DD33 GO TO X TAB

8000 UP-800 UP-80 DOWN  
 MUST BE CONDITION LINE 6

PLACE 1 IN MAR 5  
 IN MAR 6  
 IN MAR 7  
 IN MAR 11

TEST FOR NO 40

PLACE 1 IN MAR 12  
 TEST FOR NO 20

PLACE 1 IN MAR 13  
 GO TO X TAB

gains/g0014546.png

BCD TO BINARY ~  
DETERMINE MAR X LINES

DD26      □      □  
 DD27      □      □  
 DD28      □      □  
 DD29      □      □  
 DD30      □      □  
 DD31      □      □  
 DD32 ..... 07074 SET B      0001  
        □ 07079 LOD 8      8265      □  
        □ 07084 CMP 4      2923      □  
        □ 07089 TRH K      7099      □  
        □  
        □ 07094 UNL 7 11      8266 8KF6      □  
        □  
        I      I  
        □ 07099 CMP 4 10      8260 8K00      □  
        □ 07104 TRH K 10      7124 7JK4      □  
        □ 07109 TRE L      7124      □  
        □  
        □ 07114 UNL 7 11      8280 8KHO      □  
        □ 07119 TR 1      7264      □  
        DH34  
        □  
        □ 07124 SET B      0001 ..... □  
        □ 07129 LOD 8      8261      □  
        □ 07134 CMP 4      2926      □  
        □ 07139 TRH K      7184      □  
        □ 07144 TRE L      7209      □  
        □  
        □ 07149 CMP 4      2922      □ II  
        □ 07154 TRH K      7229      □ II  
        □ 07159 TRE L      7214      □ II  
        □  
        □ 07164 CMP 4      2920      □ III  
        □ 07169 TRH K      7254      □ III  
        □ 07174 TRE L      7219      □ III  
        □  
        □ 07179 TR 1      7334      □ III  
        DJ34  
        □  
        □ 07184 UNL 7 11      8280 8KHO      □ III  
        □ 07189 CMP 4      2927      □ III  
        □ 07194 TRE L      7204      □ III  
        □  
        □ 07199 UNL 7 11      8282 8KH2      □ III  
        □ 07204 TR 1      7334      □ III  
        DJ34  
        □  
        □ 07209 UNL 7 11      8287 8KH7      □ III  
        □ 07214 UNL 7 11      8281 8KH1      □ III  
        □ 07219 UNL 7 11      8282 8KH2      □ III  
        DE34 .....  
        DF34 .....  
        I      □ 07224 TR 1      7334      □ III  
        I  
        I      □ 07229 UNL 7 11      8287 8KH7      □ III  
        I      □ 07234 CMP 4      2924      □ III  
        I      □ 07239 TRH K      7254      □ III  
        I      □ 07244 TRE L      7219      □ III  
        I  
        I      □ 07249 TR 1      7334      □ III  
        I  
        DG34 .....  
        □ 07254 UNL 7 11      8281 8KH1      □ III  
        □ 07259 TR 1      7334      □ III  
        DJ34  
 UNITS ORDER  
 CMP UNITS ORDER TO 4  
 NOT 0-4 IF HIGH  
 PLACE 1 IN MAR 3  
 CMP 0 TO TTH ORDER  
 ADDR MUST BE 99999 OR LOWER  
 PLACE 1 IN MAR 4  
 GO TO UPPER 60K INTERROGATION  
 TTH ORDER  
 CMP TTH TO 7  
 80000-99999 IF HIGH  
 70000-79999 IF EQUAL  
 CMP TTH TO 3  
 40000-69999 IF HIGH  
 30000-39999 IF EQUAL  
 CMP TTH TO 1  
 20000-29999 IF HIGH  
 10000-19999 IF EQUAL  
 MUST BE 00000-09999  
 GO TO ODD INTERROGATION  
 PLACE 1 IN MAR 4      80K  
 CMP TTH TO 8  
 80000-89999 IF EQUAL  
 MUST BE 90000-99999  
 PLACE 1 IN MAR 9      10K  
 GO TO ODD INTERROGATION  
 PLACE 1 IN MAR 17      40K  
 IN MAR 8      20K  
 IN MAR 9      10K  
 GO TO ODD INTERROGATION  
 PLACE 1 IN MAR 17      40K  
 CMP TTH TO 5  
 60000-69999 IF HIGH  
 50000-59999 IF EQUAL  
 MUST BE 40000-49999  
 GO TO ODD INTERROGATION  
 PLACE 1 IN MAR 8      20K  
 GO TO ODD INTERROGATION

## UPPER 60K INTERROGATION

gscans/g0014  
 DH33 . . . . . 07264 SET B 0001 □  
 □ 07269 LOD 8 8261 □  
 □ 07274 CMP 4 2920 □  
 □ 07279 TRH K 7294 ----- □  
 □ 07284 TRE L 7214 ----- □ DE33  
 □ 07289 TR I 7254 ----- □ DG33 TTH ORDER  
 CMP TTH TO 1 120000 OR HIGHER  
 110000-119999 IF EQUAL  
 MUST BE 100000-109999

07294 UNL 7 11	8287 8KH7 . . .	PLACE 1 IN MAR 17
07299 CMP 4	2922	CMP TTH TO 3
07304 TRH K	7319 - - - -	140000-159999 IF HIGH
07309 TRE L	7219 - - - - DF33	130000-139999 IF EQUAL
07314 TR 1	7334 - - - -	MUST BE 120000-129999
		GO TO ODD INTERROGATION
07319 CMP 4	2924 . . . . .	CMP TTH TO 5
07324 TRE L	7214 - - - - DE33	150000-159999 IF EQUAL
07329 TR 1	7254 - - - - DG33	MUST BE 140000-149999

ODD MAR X INTERROGATION

• 07334 RCV U	8262	• • • •	□	•	TEST FOR NO 1000
□ 07339 TZB • 01	7349	73U9	-	▼	PLACE 1 IN MAR 14
□					
□ 07344 UNL 7 11	8284	8KH4	□	I	TEST FOR NO 100
□ 07349 RCV U	8263	• • • •	□	I	PLACE 1 IN MAR 15
□ 07354 TZB • 01	7364	73W4	-	▼	TEST FOR NO 10
□					
□ 07359 UNL 7 11	8285	8KH5	□	I	PLACE 1 IN MAR 16
□ 07364 RCV U	8264	• • • •	□	I	
□ 07369 TZB • 01	7379	73X9	-	▼	
□					
□ 07374 UNL 7 11	8286	8KH6	□	I	
□□□□□□□□□□□□	I	□□□□□□□□□□□□	I		
	I		I		
□□□□□□□□□□□□	V	□□□□□□□□□□□□	I		
□ 07379 SET B 14	0001	0&-1.	■	I	
□ 07384 LOD 8 14	8353	8CN3	□		
□□□□□□□□□□	I	□□□□□□□□□□	I		

MAR COUNT TABULATION  
TEST FOR - IN MAR 3

□ 07389 CMP 4 14 8266 8B06 □  
□ 07394 TRE L 7409 ----- DK35  
□ 07399 RCV U 7886 □  
□ 07404 TSL 1 01 7694 76Z4 ----- DM36

NEXT PAGE

gains/g0014547

K34						
DK37	07409	CMP	4	14	8280	8BQ0
	07424	TRE	L		7429	
	07419	RCV	U		7886	
	07424	TSL	I	01	7704	774
						DN36
	07429	CMP	4	14	8269	8B09
	07434	TRE	L		7469	
	07439	RCV	U		7886	
	07444	TSL	I	01	7704	774
						DP36
	07449	CMP	4	14	8270	8BP0
	07454	TRE	L		7469	
	07459	RCV	U		7886	
	07464	TSL	I	01	7704	77S4
						DQ36
	07469	CMP	4	14	8271	8BP1
	07474	TRE	L		7469	
	07479	RCV	U		7886	
	07484	TSL	I	01	7704	77T4
						DR36
	07489	CMP	4	14	8261	8BG1
	07494	TRE	L		7469	
	07499	RCV	U		7886	
	07504	TSL	I	01	7704	774
						DZ36
	07509	CMP	4	14	8262	8B02
	07514	TRE	L		7469	
	07519	RCV	U		7886	
	07524	TSL	I	01	7704	774
						DT36

NEXT PAGE

DL35.....07529 CMP 4 14 8273 8BP3 10  
 □ 07534 TRE L 7549  
 □ 07539 RCV U 7886  
 □ 07544 TSL 1 01 7764 77W4  
 □ 07549 CMP 4 14 8274 8BP4 11  
 □ 07554 TRE L 7569  
 □ 07559 RCV U 7886  
 □ 07564 TSL 1 01 7774 77X4 -DU37  
 □ 07569 CMP 4 14 8275 8BP5 12  
 □ 07574 TRE L 7589  
 □ 07579 RCV U 7886  
 □ 07584 TSL 1 01 7784 77Y4 -DV37  
 □ 07589 CMP 4 14 8276 8BP6 13  
 □ 07594 TRE L 7609  
 □ 07599 RCV U 7886  
 □ 07604 TSL 1 01 7794 77Z4 -DW37  
 □ 07609 CMP 4 14 8284 8BQ4 14  
 □ 07614 TRE L 7629  
 □ 07619 RCV U 7886  
 □ 07624 TSL 1 01 7804 78 4 -DX37  
 □ 07629 CMP 4 14 8285 8BQ5 15  
 □ 07634 TRE L 7649  
 □ 07639 RCV U 7886  
 □ 07644 TSL 1 01 7814 78/4 -DY37  
 □ 07649 CMP 4 14 8286 8BQ6 16  
 □ 07654 TRE L 7669  
 □ 07659 RCV U 7886  
 □ 07664 TSL 1 01 7824 78S4 -DZ37  
 □ 07669 CMP 4 14 8287 8BQ7 17  
 □ 07674 TRE L 7689  
 □ 07679 RCV U 7886  
 □ 07684 TSL 1 01 7834 78T4 -EA37  
 □ 07689 TR 1 2669 -BS14 VARIABLE TRANSFER BACK

## INITIAL MAR LINE TAB ADDR SET

DM34.....07694 LOD 8 04 9025 9 25 □ MAR 3 TAB START ADDRESS  
 □ 07699 TR 1 7839 -EB37

DN35.....07704 LOD 8 04 9029 9 29 □ MAR 4  
 □ 07709 TR 1 7839 -EB37

DP35.....07714 LOD 8 04 9033 9 33 □ MAR 5  
 □ 07719 TR 1 7839 -EB37

DQ35.....07724 LOD 8 04 9037 9 37 □ MAR 6  
 □ 07729 TR 1 7839 -EB37

DR35.....07734 LOD 8 04 9041 9 41 □ MAR 7  
 □ 07739 TR 1 7839 -EB37

DS35.....07744 LOD 8 04 9045 9 45 □ MAR 8  
 □ 07749 TR 1 7839 -EB37

DT35.....07754 LOD 8 04 9049 9 49 □ MAR 9  
 □ 07759 TR 1 7839 -EB37

□ 07764 LOD 8 04 9053 9 53 -EB37 MAR 10  
 □ 07769 TR 1 7839 -EB37

gs0014548.png

DU36.....	07774 LOD 8 04	9057 9 57		MAR 11
	07779 TR 1	7839		
DV36.....	07784 LOD 8 04	9061 9 61	I	MAR 12
	07789 TR 1	7839		
DW36.....	07794 LOD 8 04	9065 9 65	I	MAR 13
	07799 TR 1	7839		
DX36.....	07804 LOD 8 04	9069 9 69	I	MAR 14
	07809 TR 1	7839		
DY36.....	07814 LOD 8 04	9073 9 73	I	MAR 15
	07819 TR 1	7839		
DZ36.....	07824 LOD 8 04	9077 9 77	I	MAR 16
	07829 TR 1	7839		
EA36.....	07834 LOD 8 04	9081 9 81	I	MAR 17
EB36.....	07839 UNL 7 04	7859 7Y59	J	SET START LINE TAB ADDRESS
	07844 TR 1	7894		

EE38

ACTUAL MARTAB AREA

ADD TAB INCREMENT TO VAR LOADER

VARIABLE TAB COUNT LOADER

VARIABLE ADDER INCREMENT

SET REPLACER

REPLACE COUNT IN TABLE

S TWO-PASS SWITCH--ALL SECTION

VARIABLE RETRACE TRANSFER

EC38

EC39.....

07849 AAM @ 13	7859 7HV9	I
07854 SET B 13	0005 0& 5	
07859 LOD 8 13	0000 0& 0	
07864 ADD G 13	8290 8BZ0	
07869 LOD 8 04	7859 7Y59	
07874 UNL 7 04	7879 7Y79	
07879 UNL 7 13	0000 0& 0	
07884 NOP A	8084	EF38
07889 TR 1	7409	DK35

ALL SECTIONS  
MULTIPLE DROP OR PICK MARTAB

SET TWO-PASS SWITCH  
0 INTO ASU 15

TEST FOR D-----

ADD 1 TO ASU 15

TEST FOR -D-----

TEST FOR --D-----

TEST FOR ---D-----

TEST FOR ----D--

TEST FOR -----D-

TEST FOR -----D

BYPASS DROP TAB IF ASU 15 ZERO

STORE ADDER COUNT

000006 SET ADDR FOR DROP

000012 SET ADDR FOR PICK

000006 SET INCREMT FOR PICK

gscans/g0014753.png

E37.....  
 07894 SGN T 7880  
 07899 RAD H 15 2731 2GC1  
 07904 CMP 4 08 2895 2Q95  
 07909 TRE L 7919-----  
 07914 TR 1 7924-----  
 07919 ADD G 15 2732 2GC2 ••• I  
 07924 CMP 4 08 2896 2Q96 ••• I  
 07929 TRE L 7939-----  
 07934 TR 1 7944-----  
 07939 ADD G 15 2732 2GC2 ••• I  
 07944 CMP 4 08 2897 2Q97 ••• I  
 07949 TRE L 7959-----  
 07954 TR 1 7964-----  
 07959 ADD G 15 2732 2GC2 ••• I  
 07964 CMP 4 08 2898 2Q98 ••• I  
 07969 TRE L 7979-----  
 07974 TR 1 7984-----  
 07979 ADD G 15 2732 2GC2 ••• I  
 07984 CMP 4 08 2899 2Q99 ••• I  
 07989 TRE L 7999-----  
 07994 TR 1 8004-----  
 07999 ADD G 15 2732 2GC2 ••• I  
 08004 CMP 4 08 2900 2R00 ••• I  
 08009 TRE L 8019-----  
 08014 TR 1 8024-----  
 08019 ADD G 15 2732 2GC2 ••• I  
 08024 CMP 4 08 2901 2R01 ••• I  
 08029 TRE L 8039-----  
 08034 TR 1 8044-----  
 08039 ADD G 15 2732 2GC2 ••• I  
 08044 TRZ N 15 8069 8&F9 ••• I  
 08049 ST F 15 8290 8B10  
 08054 SET B 13 0006 0& 6  
 08059 LOD 8 13 2934 2IT4  
 08064 TR 1 7849----- EC37  
 08069 SET B 13 0006 0& 6  
 08074 LOD 8 13 2940 2IU0  
 08079 TR 1 8094----- EG39  
 08084 SET B 13 0006 0& 6  
 08089 LOD 8 13 2934 2IT4

NEXT PAGE

gscons/q0014549.p  
EG38.....  
□ 08094 SGN T 7880 □  
□ 08099 ADM 6 7880 □  
□ 08104 RAD H 15 2731 2GC1 □  
□ 08109 CMP 4 09 2895 2QZ5 □  
□ 08114 TRE L 8124 -----  
□ 08119 TR 1 8129 -----  
□ 08124 ADD G 15 2732 2GC2 . . . I  
□ 08129 CMP 4 09 2896 2QZ6 . . . I  
□ 08134 TRE L 8144 -----  
□ 08139 TR 1 8149 -----  
□ 08144 ADD G 15 2732 2GC2 . . . I  
□ 08149 CMP 4 09 2897 2QZ7 . . . I  
□ 08154 TRE L 8164 -----  
□ 08159 TR 1 8169 -----  
□ 08164 ADD G 15 2732 2GC2 . . . I  
□ 08169 CMP 4 09 2898 2QZ8 . . . I  
□ 08174 TRE L 8184 -----  
□ 08179 TR 1 8189 -----  
□ 08184 ADD G 15 2732 2GC2 . . . I  
□ 08189 CMP 4 09 2899 2QZ9 . . . I  
□ 08194 TRE L 8204 -----  
□ 08199 TR 1 8209 -----  
□ 08204 ADD G 15 2732 2GC2 . . . I  
□ 08209 CMP 4 09 2900 2R 0 . . . I  
□ 08214 TRE L 8224 -----  
□ 08219 TR 1 8229 -----  
□ 08224 ADD G 15 2732 2GC2 . . . I  
□ 08229 CMP 4 09 2901 2R 1 . . . I  
□ 08234 TRE L 8244 -----  
□ 08239 TR 1 8249 -----  
□ 08244 ADD G 15 2732 2GC2 . . . I  
□ 08249 TRZ N 15 7889 7HH9 ----- ED37  
□ 08254 ST F 15 8290 8810 □  
□ 08259 TR 1 7849 ----- EC37

RESET TWO-PASS SWITCH

0 INTO ASU 15

TEST FOR P-----

ADD 1 TO ASU 15

TEST FOR -P-----

TEST FOR --P-----

TEST FOR ---P-----

TEST FOR ----P-----

TEST FOR -----P-----

TEST FOR -----P-----

BYPASS PICK TAB IF ASU 15 ZERO  
STORE ADDER COUNT



2 001 08825  
 2 004 08829  
 2 036 08865  
 2 034 08899  
 2 001 08900

□								
	10-	SD-	0	0	0	14-	0	0
□								

2 004 08904  
 2 036 08940  
 2 001 08941  
 2 003 08944  
 2 036 08980  
 2 001 08981  
 2 003 08984  
 2 036 09020  
 2 001 09021

□								
	11-		0	0	0	15-	0	0
□								
	12-		0	0	0	16-	0	0
□								
	13-		0	0	0	17-	0	0
□								

3 09025 13 8587 8EY7 MAR 3 START ADDRESS  
 3 09029 13 8628 8FS8 4  
 3 09033 13 8607 8F7 5  
 3 09037 13 8682 8FY2 6  
 3 09041 13 8757 8GV7 7  
 3 09045 13 8703 8G 3 8  
 3 09049 13 8778 8GX8 9  
 3 09053 13 8832 8HT2 10

3 09057 13 8907 8I 7 MAR 11 START ADDRESS  
 3 09061 13 8947 8IU7 12  
 3 09065 13 8987 8IY7 13  
 3 09069 13 8853 8HV3 14  
 3 09073 13 8928 8IS8 15  
 3 09077 13 8968 8IW8 16  
 3 09081 13 9008 9E 8 17

3 09085 13 8649 8FU9 SEGMENT SA START ADDRESS  
 3 09089 13 8724 8GS4 SB  
 3 09093 13 8799 8GZ9 SC  
 3 09097 13 8874 8HX4 SD

SECT 5 - ERROR ADDR-CONTS T-0

2 016 09113  
 2 001 09114  
 2 003 09117  
 2 001 09118

2 003 09121  
 2 001 09122  
 2 003 09125  
 2 001 09126  
 2 003 09129  
 2 001 09130  
 2 003 09133  
 2 001 09134  
 2 003 09137  
 2 001 09138  
 2 003 09141  
 2 001 09142  
 2 003 09145  
 2 001 09146  
 2 003 09149  
 2 001 09150  
 2 003 09153  
 2 001 09154  
 2 004 09158  
 2 001 09159  
 2 004 09163  
 2 001 09164  
 2 004 09168  
 2 001 09169  
 2 004 09173  
 2 001 09174  
 2 004 09178  
 2 001 09179  
 2 004 09183

XXXXXX	XXXXX	X						
□								
NTP								
□								
S-1								
□								
S-2								
□								
S-3								
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S-4								
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S-5								
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S-12								
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S-13								
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S-14								
□								
S-15								

gscans/920251000  
2 001 09204  
2 004 09208  
2 001 09209  
  
2 004 09203  
2 004 09207  
  
2 014 09211  
2 001 09212

S-26

-AB-  
-NB-

PASS 000-8MU98

trans/g0014010.09224 00

2 010 09234	COEZCC0EZC	66
2 010 09244	EZC0EEZC0E	<u>      </u>
2 010 09244	COEZCC0EZC	66
2 005 09249	0050	
2 005 09254	0042	- 80049
2 003 09257	6 49	

ALL CHAR INITIAL CONSTANT FLD  
MINUS BLANK AND GM

2 005 09254 00	42654
2 007 09251	-145#06
2 010 09251	ABCDEF011-
2 009 09290	JKLMNPQRSTUVWXYZ
2 009 09299	#STUVWXYZ
2 010 09309	0123456789

----- CURRENT CACA REFERENCE  
CHARACTER ROTATION FIELD

2 006 09225 00

2 010 09225

2 005 09254 00	42654
2 050 09254	-145#06
2 061 09255	ABCDEF011-

3 0A05 9335 9333	JKLMNPQRSTUVWXYZ
2 005 09254	#STUVWXYZ

9335 9333 ROTATION CHAR FLD POSIT 1 ADDR

2 005 09254

2 002 09259 00

2 005 09259

2 005 09259

2 005 09259

2 005 09259

2 005 09259



WORK AREA

GROUP 1  
GROUP 2  
GROUP 3  
GROUP 4

POST COMPLEMENT TRANSMIT INTO AREA

gscans/g0014750.png

## SECTION 5 MEMORY ADDRESS PLACEMENT TEST

080004  
SET BLM RCV ADDR  
SET MEMORY FILL ADDR  
REDUCE TO 80004

AT 80004  
SET UPPER 80K TO BLANKS

## MEMORY FILL AREA

### MEMORY FILL ADDRESS

TEST ASU 01 FOR 59999  
MEMORY FILL COMPLETE

TEST ASU 01 FOR 99999

ADD 5 TO ADDR SUM IN ASU 01  
INCREASE MFA BY 00005

LOD 000004  
REDUCE TO 00004

RESET ABOVE-100000 SWITCH

080004

**MEMORY CHECK AREA**

TEST ADDRESS FOR CONTENTS  
SHOULD BE EQUAL-  
ERROR - IF NOT

TEST FOR 0901 CHECK

TEST FOR 59999  
MEM CHK COMPLETE

TEST FOR 99999

ADD 5 TO ADDR SUM IN ASU 01  
INCREASE MTA BY 00005



SECTION 6-12 SETUP && X &&  
TWO DIMENSIONAL CHECKERBOARD

gscans/g0014749.png

EQ04  
 EQ45  
 EQ49  
 EQ55.....  
 09809 RCV U 9399  
 09814 BLM \$ 0004  
 09819 TMC O 11 9824 9QB4--  
 09824 SET B 0020.....  
 09829 LOD 8 9234  
 09834 UNL 7 9414  
 09839 SB % 08 9397 9L97  
 09844 SB % 08 9398 9L98  
 09849 SB % 08 9402 9M02  
 09854 SB % 08 9403 9M03  
 09859 SB % 08 9405 9M05  
 09864 SB % 08 9406 9M06  
 09869 SB % 08 9409 9M09  
 09874 SB % 08 9410 9M10  
 09879 SB % 08 9411 9M11  
 09884 SB % 08 9414 9M14  
 09889 TR 1 10534 534-----EZ50

CLEAR OUT WORK AREA

CO@ZCCO@ZC@ZGO@ZCO@  
INTO WORK AREA

CHAR 2 @ Z SET C BIT ON  
CHAR 3 @ Z RESET C BIT OFF

CHAR 7 @ Z ON  
CHAR 8 @ Z OFF

CHAR 10 @ Z ON  
CHAR 11 @ Z OFF  
CHAR 14 @ Z ON

CHAR 15 @ Z ON  
CHAR 16 @ Z OFF  
CHAR 19 @ Z ON

SECTION 7-13 SETUP --& X --&  
TWO DIMENSIONAL CHECKERBOARD

ER04  
 ER55.....  
 09894 SGN T 11050 /050  
 09899 SGN T 10870 870  
 09904 SGN T 11565 /565  
 09909 RCV U 9399  
 09914 BLM \$ 0004  
 09919 TMC O 11 9924 9RB4--  
 09924 SET B 0020.....  
 09929 LOD 8 9244  
 09934 UNL 7 9414  
 09939 SB % 08 9395 9L95  
 09944 SB % 08 9396 9L96  
 09949 SB % 08 9399 9L99  
 09954 SB % 08 9400 9M00  
 09959 SB % 08 9401 9M01  
 09964 SB % 08 9404 9M04  
 09969 SB % 08 9407 9M07  
 09974 SB % 08 9408 9M08  
 09979 SB % 08 9412 9M12  
 09984 SB % 08 9413 9M13  
 09989 TR 1 10534 534-----EZ50

SET SECTION 7 SWITCHES

CLEAR OUT WORK AREA

@ZCO@ZCO@CO@ZCCO@ZC  
INTO WORK AREA

CHAR 0 @ Z SET C BIT ON  
CHAR 1 @ Z RESET C BIT OFF  
CHAR 4 @ Z ON

CHAR 5 @ Z ON  
CHAR 6 @ Z OFF  
CHAR 9 @ Z ON

CHAR 12 @ Z ON  
CHAR 13 @ Z OFF

CHAR 17 @ Z ON  
CHAR 18 @ Z OFF

SECTION 8 SETUP 66— X 666  
IN LINE PLANE CHKBD-COMPLEMTE

gsms/g0014553.png

ET04						
ET55						
ET68	-----	09994 SGN T	10845	845		
	09999 RCV U	9399				
	10004 BLM S	0004				
	10009 TMC 0 II	10014	-A4			
	10014 SET B	0005	-----			
	10029 LOD 8	2854				
	10024 UNL 7	9399				
	10029 SB % 08	9395	9L95			
	10034 SB % 08	9396	9L96			
	10039 SB % 08	9397	9L97			
	10044 SB % 08	9398	9L98			
	10049 SB % 08	9399	9L99			
	10054 SET B	0001				
	10059 RCV U	9404				
	10064 SND /	9399				
	10069 SB % 05	9405	9U 5			
	10074 SB % 05	9406	9U 6			
	10079 SB % 05	9407	9U 7			
	10084 SB % 05	9408	9U 8			
	10089 SB % 05	9409	9U 9			
	10094 RCV U	9414				
	10099 SND /	9409				
	30104 TR 1	10534	534		EZ50	

SET SECTION 8 SWITCHES

CLEAR OUT WORK AREA

5 GROUP MARKS  
INTO GROUP 1

CHAR 0 SET C BITS ON

1  
2  
3  
4

SET GROUP 2 TO GROUP 1

CHAR 10 RESET C AND A BITS OFF

11  
12  
13  
14

SET GROUP 4 TO GROUP 3

gscans/g0014748.png							
EU04	□						
EU68	.....	•	10109	SGN	T	10840	840
	□		10114	SGN	T	13595	T595
	□		10119	SGN	T	13980	T980
	□		10124	SGN	T	13765	T765
	□		10129	SGN	T	13805	T805
	□		10134	SGN	T	14175	U175
	□		10139	SGN	T	14215	U215
	□						
	□		10144	RCV	U	9399	
	□		10149	BLM	\$	0004	
	□		10154	TMC	O 11	10159	JE9 - ■ -
	□						I
	□		10159	SET	B	0005	• • • •
	□		10164	LOD	8	2854	
	□		10169	UNL	7	9409	
	□						
	□		10174	SB	% 05	9395	9TZ5
	□		10179	SB	% 05	9396	9TZ6
	□		10184	SB	% 05	9397	9TZ7
	□		10189	SB	% 05	9398	9TZ8
	□		10194	SB	% 05	9399	9TZ9
	□						
	□		10199	SET	B	0001	
	□		10204	RCV	U	9404	
	□		10209	SND	/	9399	
	□						
	□		10214	SB	% 08	9405	9M05
	□		10219	SB	% 08	9406	9M06
	□		10224	SB	% 08	9407	9M07
	□		10229	SB	% 08	9408	9M08
	□		10234	SB	% 08	9409	9M09
	□						
	□		10239	RCV	U	9414	
	□		10244	SND	/	9409	
	□		10249	TR	1	10534	534 - ■ -
	□						

SECTION 9 SETUP --& X -----  
IN LINE PLANE CHKBKD-COMPLEMTED

**SET SECTION 9 SWITCHES**

**CLEAR OUT WORK AREA**

5 GROUP MARKS  
INTO GROUP 3

CHAR 0 RESET C AND A BITS OFF  
1234

SET GROUP 2 TO GROUP 1

CHAR 10 SET C BITS ON  
11  
12  
13  
14

SET GROUP 4 TO GROUP 3

SECTION 10 SETUP &-- X &  
ALT PLANE CHKBD - COMPLEMENT

EV05								
EV68								
EV74.....	10254	SGN	T		10835	835		
	10259	RCV	U		9399			
	10264	BLM	\$		0004			
	10269	TMC	O	11	10274	KG4		
	10274	SET	B		0010	.....		
	10279	LOD	8		2868			
	10284	UNL	7		9404			
	10289	SB	%	08	9396	9L96		
	10294	SB	%	08	9398	9L98		
	10299	SB	%	08	9401	9M01		
	10304	SB	%	08	9403	9M03		
	10309	LOD	8		2878			
	10314	UNL	7		9414			
	10319	SB	%	08	9405	9M05		
	10324	SB	%	08	9407	9M07		
	10329	SB	%	08	9409	9M09		
	10334	SB	%	08	9410	9M10		
	10339	SB	%	08	9412	9M12		
	10344	SB	%	08	9414	9M14		
	10349	TR	1		10534	534		

**SET SECTION 10 SWITCHES**

**CLEAR OUT WORK AREA**

V-V-VV-V-V  
INTO GROUP 2

CHAR 1      RESET C BITS OFF  
3  
6  
8

-V-V--V-V-  
INTO GROUP 4

CHAR 10      RESET C BITS OFF  
12  
14  
15  
17  
19

SECTION 11 SETUP —& X —&  
ALT PLANE CHKBD - COMPLEMENTE

SET SECTION 11 SWITCHES

CLEAR OUT WORK AREA

-V-V--V-V-  
INTO GROUP 2CHAR 0      RESET C BITS OFF  
          2  
          4  
          5  
          7  
          9V-V-VV-V-V  
INTO GROUP 4CHAR 11     RESET C BITS OFF  
          13  
          16  
          18SECTION 12 SETUP —&— X &—  
2D CHECKERBOARD - COMPLEMENTEEX05  
EX75

EX81.....

10484 SGN T 10825 825  
10489 TR 1 9809 ---EQ46SECTION 13 SETUP —& X —&  
2D CHECKERBOARD - COMPLEMENTEEY05  
EY81.....10494 SGN T 10820 820  
10499 SGN T 15775 V775  
10504 SGN T 15940 V940  
10509 SGN T 15980 V980  
10514 SGN T 16035 W035  
10519 SGN T 16075 W075  
10524 SGN T 16095 W095  
10529 TR 1 9909 ---ES46

## SET MEMORY FILL ADDRESSES

escans/g001487.png

EZ46  
EZ47  
EZ48  
EZ49.....# 10534 LDA # 2799  
# 10539 ULA \* 10614 614  
# 10544 ULA \* 10629 629  
# 10549 ULA \* 10644 644  
# 10554 ULA \* 10664 664  
# 10559 ULA \* 10699 699  
# 10564 ULA \* 10764 764  
  
 # 10569 ADD G 2742  
# 10574 ULA \* 10654 654  
# 10579 ULA \* 10674 674  
  
 # 10584 LDA # 2819  
# 10589 ULA \* 10684 684  
# 10594 ULA \* 10729 729  
# 10599 RAD H 01 2767 27W7  
  
 # 10604 LDA # 2824  
# 10609 ULA \* 10789 789  
  
 # 10614 RCV U 0000  
# 10619 BLM \$ 16000 W000

080004  
SET RCV BLM ADDR

INCREASE TO 080014

080804

RESET ASU 01 TO 000001

088004  
SET 88004 ADDRAT 80004  
BLANK OUT UPPER 80 KCOMMON MEMORY FILL AREA  
FILL 80000-80799

# 10624 SET B 0004  
# 10629 RCV U 0000  
# 10634 SND / 9399  
  
 # 10639 SET B 0012  
# 10644 SND / 0000  
  
 # 10649 SET B 0004  
# 10654 SND / 0000  
  
 # 10659 SET B 0140  
# 10664 SND / 0000

&&--  
AT 80004  
SND 20 CHARS&&-- &&-- &&-- &&--  
AT 80024- 60 CHARS-FROM 80004--&&  
AT 80084- 20 CHARS-FROM 80014&&-- &&-- &&-- &&-- --&&  
AT 80104- 700 CHARS-FROM 80004

FILL 80800-80999

--&&  
AT 80804- 20 CHARS-FROM 800--&& --&& . . . . . --&& --&&  
AT 80824- 180 CHARS-FROM 80804

FILL 81000-87999

7  
1000 CHARS PER  
AT 81004-7000 CHARS-FROM 80004

REDUCE 7 CTR BY 1

..# 10699 SND / 0000  
  
 I # 10704 SUB P 02 2732 27L2  
I # 10709 TRZ N 02 10719 7J9-----FA51  
+--# 10714 TR 1 10699 699

FILL 88000-89999

10

200 CHARS PER  
AT 88004-2000 CHARS-FROM 80804

REDUCE 10 CTR BY 1

FILL 90000-159999

7

8

AT 90004-8000 CHARS-FROM 80004

REDUCE 8 CTR BY 1

2 AT 98004-2000 CHARS-FROM 88004

REDUCE 2 CTR BY 1

REDUCE 7 CTR BY 1  
80K MEM FILL COMPLETE

I 10824 NOP A 15769 V769-----HW79 SECTION 13 SWITCH

I 10829 NOP A 15769 V769-----HW79 SECTION 12 SWITCH

I 10834 NOP A 14749 U749-----HG73 SECTION 11 SWITCH

I 10839 NOP A 14749 U749-----HG73 SECTION 10 SWITCH

I 10844 NOP A 13589 T589-----GS66 SECTION 9 SWITCH

I 10849 NOP A 13589 T589-----GS66 SECTION 8 SWITCH

I SECTION 6 AND 7-INTERROG AREA

I 10854 LDA # 2814  
I 10859 ULA \* 10869 869 SET INITIAL TEST ADDRESS

FB55..... I 10864 SET B 0020 TEST ADDRESS

I

I

I

I 10874 NOP A 10939 939-----FC52 SECTION 7 SWITCH

I  
NEXT PAGE

gscans/g0014  
 74610879 RCV U 10866 866 □  
 □ 10884 TZB • 04 10894 Y94---\*  
 □ 10889 TZB • 02 10984 9Q4---\*  
 □ 10894 RCV U 10867 867 ••• I  
 □ 10899 TZB • 04 10909 Z09---\* I  
 □ 10904 TZB • 02 10984 9Q4---\*  
 □ 10909 RCV U 10868 868 ••• I  
 □ 10914 TZB • 04 10924 Z24---\* I  
 □ 10919 TZB • 02 10984 9Q4---\*  
 □ 10924 CMP 4 9234••••• I  
 □ 10929 TRE L 10999 999---\*  
 □ 10934 TR 1 11964 /964---\* FY57  
 FC51.....  
 10939 RCV U 10866 866 II  
 □ 10944 TZB • 04 10954 Z54---\* II  
 -10949 TZB • 02 10924 9K4 □ I II  
 □ 10954 RCV U 10867 867 ••• I II  
 □ 10959 TZB • 04 10969 Z69---\* II  
 -10964 TZB • 02 10924 9K4 □ I II  
 □ 10969 RCV U 10868 868 ••• I II  
 □ 10974 TZB • 04 10984 Z84---\*  
 -10979 TZB • 02 10924 9K4 □ I II  
 □ 10984 CMP 4 9244••••• I  
 □ 10989 TRE L 10999 999---\*  
 □ 10994 TR 1 12419 S419---\* GF59  
 10999 LDA # 10869 869••• I  
 □ 11004 SUB P 2746 □  
 □ 11009 ULA \* 11159 /159 □  
 11014 RAD H 02 2735 27L5  
 □ 11019 SET B 0001 □  
 □ 11024 LOD 8 2732 □  
 □ 11029 UNL 7 11160 /160 □  
 □ 11034 UNL 7 11165 /165 □  
 □ 11039 UNL 7 11170 /170 □  
 □ 11044 UNL 7 11175 /175 □  
 □ 11049 UNL 7 11180 /180 □  
 11054 NOP A 11109 /109---\* FD53 SECTION 7 SWITCH  
 11059 RCV U 10866 866 □  
 □ 11064 TZB • 04 11074 /74---\*  
 □ 11069 TZB • 02 11154 /1N4---\* FE53  
 □ 11074 RCV U 10867 867 ••• I  
 □ 11079 TZB • 04 11089 /89---\*  
 □ 11084 TZB • 02 11154 /1N4---\* FE53  
 □ 11089 RCV U 10868 868 ••• I  
 □ 11094 TZB • 04 11159 //59---\* FF53  
 □ 11099 TZB • 02 11154 /1N4---\* FE53  
 □ 11104 TR 1 11159 /159---\* FF53

TEST MTA THOUSANDS ORDER  
 IF 8000 U & 2000 D USE --&  
 TEST MTA HUNDREDS ORDER  
 IF 800 UP & 200 DOWN USE --&  
 TEST MTA TENS ORDER  
 &-- IF 8000-800-80 DOWN  
 IF 80 UP & 20 DOWN USE --&  
 TEST FOR EQUAL TO &-- SETUP  
 GO TO CHK FOR C BIT D OR P  
 CHARACTER ERROR  
 TEST MTA THOUSANDS ORDER  
 IF 8000 U & 2000 D USE &&  
 IF 800 UP & 200 DOWN USE &&  
 --&& IF 8000-800-80 DOWN  
 IF 80 UP & 20 DOWN USE &&  
 TEST FOR EQUAL TO --&& SETUP  
 GO TO CHK FOR C BIT D OR P  
 CHARACTER ERROR  
 LOD TEST ADDR  
 REDUCE BY 19  
 SET C BIT CHECK ADDR  
 4  
 A  
 RESET ALL SEQ CHK SWITCHES 5  
 4  
 3  
 2  
 1  
 TEST MTA FOR 8000  
 USE --&& SEQ CHK  
 TEST MTA FOR 800  
 USE --&& SEQ CHK  
 TEST MTA FOR 80  
 &-- IF 8000-800-80 DOWN  
 USE --&& SEQ CHK  
 &-- MUST BE ZERO

FD520014556 RCV U 10866 866 □  
 I 11114 TZB • 04 11124 //24--■  
 I 11119 TZB • 02 11159 /1N9--■  
 I  
 I 11124 RCV U 10867 867 ••• I  
 I 11129 TZB • 04 11139 //39--■  
 I 11134 TZB • 02 11159 /1N9--■  
 I  
 I 11139 RCV U 10868 868 ••• I  
 I 11144 TZB • 04 11154 //54--■  
 I 11149 TZB • 02 11159 /1N9--■  
 I  
 I  
 FE52..... 11154 SGN T 11170 /170••• I  
 I  
 FF52 FF54..... 11159 RCV U 0000..... I  
 I  
 I 11164 NOP A 11469 /469---FL54 SW 5  
 I  
 I 11169 NOP A 11414 /414---FK54 SW 4  
 I  
 I 11174 NOP A 11374 /374---FJ54 SW 3  
 I  
 I 11179 NOP A 11284 /284---FH54 SW 2  
 I  
 I 11184 NOP A 11224 /224--- SW 1  
 I  
 I 11189 TZB • 07 11204 /S&4--■  
 I 11194 RCV U 11956 /956 I  
 I 11199 TSL 1 01 11804 /8 4---FW56 I  
 I  
 FG57..... 11204 SGN T 11180 /180••• I  
 I 11209 RAD H 03 2733 27C3 I  
 I 11214 AAM @ 01 11159 /1V9 I  
 I 11219 TR 1 11159 /159 I  
 I  
 I 11224 TZB • 07 11234 /SC4--■  
 I 11229 TR 1 11244 /244---  
 I 11234 RCV U 11956 /956••• I  
 I 11239 TSL 1 01 11734 /7T4---FS56 I  
 I  
 I 11244 SUB P 03 2732 27C2••• I  
 I 11249 TRZ N 03 11264 /2F4--■  
 I 11254 AAM @ 01 11159 /1V9 I  
 I 11259 TR 1 11159 /159 I  
 I  
 I 11264 SGN T 11175 /175••• I  
 I 11269 RAD H 03 2733 27C3 I  
 I 11274 AAM @ 01 11159 /1V9 I  
 I 11279 TR 1 11159 /159 I

TEST MTA FOR 8000  
 USE &&-- SEQ CHK  
 TEST MTA FOR 800  
 USE &&-- SEQ CHK  
 TEST MTA FOR 80  
 --&& IF 8000-800-80 DOWN  
 USE &&-- SEQ CHK  
 SETUP FOR --&& SEQ CHK  
 SET SWITCH 3 TO TR  
 C BIT CHECK ADDRESS  
 TEST FOR NO C BIT PICK  
 PICK ERROR CHAR C  
 SET SW 1  
 INCR C BIT CHK ADDR BY 00001  
 TEST FOR C BIT DROP  
 DROP ERROR CHAR O OR @  
 DECREASE CTR BY 1  
 SET SW 2

gscans,g0014.05.000  
 F53.....• 11284 TZB • 07 11299 /SI9---  
 □ 11289 RCV U 11956 /956 □ I  
 □ 11294 TSL 1 01 11794 /7Z4---FV56  
 □  
 □ 11299 SUB P 03 2732 27C2 ••• I  
 □ 11304 TRZ N 03 11319 /3A9---  
 ••• 11309 AAM @ 01 11159 /1V9 □ I  
 □ 11314 TR 1 11159 /159---FF53  
 □  
 □  
 I 11319 SUB P 02 2732 27L2 ••• I  
 I 11324 TRZ N 02 11569 /509---FP55  
 I □  
 I □ 11329 CMP 4 02 2921 29K1 □  
 I □ 11334 TRE L 11364 /364---  
 I □  
 I ••• 11339 SGN T 11175 /175 □ I  
 I □ 11344 ADM 6 11175 /175 □ I  
 I □ 11349 SGN T 11180 /180 □ I  
 I □ 11354 ADM 6 11180 /180 □ I  
 I ••• 11359 TR 1 11309 /309 □ I  
 I □  
 I □ 11364 SGN T 11170 /170 ••• I  
 I ••• 11369 TR 1 11339 /339 □  
 □  
 INTERROGATE --& SETUP GROUPS

FJ53.....• 11374 TZB • 07 11384 /TH4---  
 □ 11379 TR 1 11394 /394---  
 □ 11384 RCV U 11956 /956 ••• I  
 □ 11389 TSL 1 01 11744 /7U4---FT56  
 □  
 □ 11394 SGN T 11165 /165 ••• I  
 □ 11399 RAD H 03 2733 27C3 □  
 □ 11404 AAM @ 01 11159 /1V9 □  
 □ 11409 TR 1 11159 /159---FF53  
 □  
 TEST FOR C BIT DROP

FK53.....• 11414 TZB • 07 11429 /UB9---  
 □ 11419 RCV U 11956 /956 □ I  
 □ 11424 TSL 1 01 11794 /7Z4---FV56  
 □  
 □ 11429 SUB P 03 2732 27C2 ••• I  
 □ 11434 TRZ N 03 11449 /4D9---  
 □ 11439 AAM @ 01 11159 /1V9 □ I  
 □ 11444 TR 1 11159 /159---FF53  
 □  
 □  
 □ 11449 SGN T 11160 /160 ••• I  
 □ 11454 RAD H 03 2733 27C3 □  
 □ 11459 AAM @ 01 11159 /1V9 □  
 □ 11464 TR 1 11159 /159---FF53  
 □  
 SET SW 5

FL53.....• 11469 TZB • 07 11479 /UG9---  
 □ 11474 TR 1 11489 /489---  
 □ 11479 RCV U 11956 /956 ••• I  
 □ 11484 TSL 1 01 11734 /7T4---FS56  
 □  
 □ 11489 SUB P 03 2732 27C2 ••• I  
 □ 11494 TRZ N 03 11509 /5&9---FN55  
 ••• 11499 AAM @ 01 11159 /1V9 □  
 □ 11504 TR 1 11159 /159---FF53  
 □

gs ends 90014557:pg 11509 SUB P 02 2732 27L2 □ DECREASE ALL GROUP CTR BY 1  
 11514 TRZ N 02 11569 /509--- ALL GROUPS CHKD IF ZERO

□ 11519 CMP 4 02 2921 29K1 □ I TEST ASU 02 FOR COUNT OF 2  
 11524 TRE L 11554 /554--- CHK OTHER GROUPS IF EQUAL

□ 11529 SGN T 11160 /160 □ II RESET SW 5  
 11534 ADM 6 11160 /160 □ II RESET SW 4  
 11539 SGN T 11165 /165 □ II  
 11544 ADM 6 11165 /165 □ II  
 11549 TR 1 11499 /499---FM54 RESET SW 3

11554 SGN T 11170 /170 . . . . .  
 11559 ADM 6 11170 /170 □ I  
 +---11564 TR 1 11529 /529 □ I

FP54  
 FP58  
 FP60.....11569 NOP A 11594 /594---SECTION 7 SWITCH

□ 11574 LDA # 10869 869 □ I LOD TEST ADDR  
 11579 CMP 4 2842 □ I TEST FOR 159999  
 11584 TRE L 11624 /624--- SECTION 6 COMPLETE  
 11589 TR 1 11609 /609---

□ 11594 LDA # 10869 869 . . . . .  
 11599 CMP 4 2842 □ I  
 11604 TRE L 11679 /679---SECTION 7 COMPLETE

□ 11609 LDA # 8309 . . . . .  
 11614 AAM @ 10869 869 □ I  
 11619 TR 1 10864 864---FB51 000020  
 INCREASE TEST ADDR BY 0020

□ 11624 TAA I 01 11649 /6U9---SECTION 6 COMPLETE  
 11629 SEL 2 0500 □ I  
 11634 WR R 9139 □ I

□ 11639 TMC O 11 11644 /OD4---  
 11644 TRC O 12 11649 /F49---  
 11649 TAF I 06 11664 /W04---  
 . . . . . 11654 TAB I 02 9809 98-9---EQ46 PRINT TAB RESULTS IF 0916 ON  
 11659 TR 1 9894---ER46 REPEAT SECT 6 IF 0912 ON  
 GO TO SECTION 7

11664 RCV U 2601 . . . . .  
 11669 TSL 1 01 2114 21/4---AQ12 SET VAR TAB PRINT TR ADDR  
 GO TO TAB PRINT AREA

+---11674 TR 1 11654 /654 □ I

□ 11679 TAA I 01 11704 /7 4---SECTION 7 COMPLETE  
 11684 SEL 2 0500 □ I  
 11689 WR R 9143 □ I

□ 11694 TMC O 11 11699 /OI9---  
 11699 TRC O 12 11704 /GO4---  
 11704 TAF I 06 11719 /XJ9---FR56 PRINT TAB RESULTS IF 0916 ON  
 . . . . . 11709 TAB I 02 9894 98R4---ER46 REPEAT SECT 7 IF 0912 ON  
 11714 TR 1 9994---ET47 GO TO SECTION 8

FQ56.....11704 TAF I 06 11719 /XJ9---FR56  
 . . . . . 11709 TAB I 02 9894 98R4---ER46  
 11714 TR 1 9994---ET47

FR55 gscans/g0011411719 RCV U 2601 □  
□ 11724 TSL 1 01 2114 21/4-----AQ12  
□  
□ 11729 TR 1 11709 /709-----FQ55

CHAR O OR @ C BIT DROP DETERM

FS53      □      □  
FS54 ..... 5• 11734 CMP 4 03 2921 29B1 □  
              □ 11739 TRE L 11769 /769 -■-■-

TEST ASU 03 FOR COUNT OF 2  
MUST BE CHAR 0 IF EQUAL

FT54  
 FT58  
 FT59 ••••• 11744 RCV U 2889 9KL4  
 11749 TMT 9 10 9234 2892  
 11754 RCV U 2892  
 11759 TMT 9 10 9234 9KL4  
 11764 TR 1 11859 /859

@--X  
PLACE @ IN SB PART OF T-O  
@--@  
PLACE @ IN IS PART OF T-O

FU58  
FU61 11769 RCV U 2889  
11774 TMT 9 10 9233 9KL3  
11779 RCV U 2892  
11784 TMT 9 10 9233 9KL3  
11789 TR 1 11859 /859

O--X  
PLACE O IN SB PART OF T-O  
O--O  
PLACE O IN IS PART OF T-O

FV54..... 11794 CMP 4 03 2921 2981 □  
11799 TRF L 11829 /829-8--

CHAR Z OR C C BIT PICK DETERMINES TEST ASU 03 FOR COUNT OF 2  
MUST BE CHAR Z IF EQUAL

FW53  
FW57  
FW60 . . . . . 11804 RCV U 2889  
□ 11809 TMT 9 10 9224 9KK4  
□ 11814 RCV U 2892  
□ 11819 TMT 9 10 9224 9KK4  
□ 11824 TR 1 11849 /849-  
- -

C-X

6-6

FX59	□	I	I				
FX60	•••••	11829	RCV	U	2889	•••••	I
	□	11834	TMT	9 10	9223	9KK3	I
	□	11839	RCV	U	2892		I
	□	11844	TMT	9 10	9223	9KK3	I
	□						I

7-  
Y

7-7

□	11849	UNL	7 09	2895	2QZ5	•••••
□	11854	TR	1	11864	/864-	■■■■■
□	11859	UNL	7 08	2895	2Q95	•••••
□	11864	SET	B	0006	•••••	■■■■■
□	11869	LOD	8	3527		□
□	11874	UNL	7	2901		□
□	11879	SET	B	0002		□
□	11884	UNL	7	2891		□
□	11889	LDA	#	11159	/159	□
□	11894	UNL	7	2886		□

P FOR PICK INTO T-O P-----

D EOF DROP INTO T=0 D-----

-----  
INTO T-O

REDUCE TO --  
X--X INTO T-0

LOD C BIT CHK ERROR ADDR  
INTO T-0

NEXT PAGE

gtrans/g0014558.mng 1899 TAA I 01 11924 /9S4--  
 □ 11904 SEL 2 0500  
 □ 11909 WR R 2881  
 □ 11914 TMC O 11 11919 /RA9--  
 □ 11919 TRC O 12 11924 /I24--  
 □ 11924 TAE I 05 11959 /ZV9--  
 □ 11929 RCV U 2106  
 □ 11934 TSL 1 01 4849 48U9-- CA21  
 □ 11939 RCV U 7686  
 □ 11944 TSL 1 01 5714 57/4-- CM26  
 □ 11949 RCV U 17716 X716  
 □ 11954 TSL 1 01 17289 X2Y9-- JN86  
 □ 11959 TR 1 11204 /204-- FG53

BYPASS T-O IF 0911 ON

000000 X--X X----

BYPASS TABULATION IF 0915 ON

SET VARIABLE RETRACE TR BACK  
GO TO C BIT TABSET MARTAB TR BACK  
GO TO MARTAB

SET SEGTAB RETURN

VARIABLE TR BACK S 6-7

SGL CHAR &amp;-- SETUP INTERROG

2

4

LOD TEST ADDRESS

REDUCE BY 19

SET FIRST CHAR CHK ADDR

FY52.....

■ 11964 RAD H 03 2733 27C3  
 □ 11969 RAD H 02 2735 27L5  
 □ 11974 LDA # 10869 869  
 □ 11979 SUB P 2746  
 □ 11984 ULA \* 12019 S019  
 □ 11989 TR 1 12014 S014--

FZ60.....

■ 11994 LDA # 12474 S474  
 □ 11999 ULA \* 12019 S019  
 □ 12004 AAM @ 01 12019 S0/9  
 □ 12009 RAD H 02 2735 27L5

4

GA59.....

■ 12014 SET B 0001•••••  
 I 12019 LOD 8 0000  
 I 12024 CMP 4 9224  
 I 12029 TRE L 12054 S054--  
 I 12034 LDA # 12019 S019  
 I 12039 RCV U 13581 T581  
 I 12044 TSL 1 01 12874 S8X4-- GM62

TEST FOR EQUAL C

GO TO CHAR C ALL BIT CHK

GB65.....

■ 12049 TR 1 12084 S084--  
 I 12054 LDA # 12019 S019  
 I 12059 ULA \* 12064 S064  
 I 12064 RCV U 0000  
 I 12069 TZB • 07 12084 S H4--  
 I 12074 RCV U 11956 /956  
 I 12079 TSL 1 01 11804 /8 4-- FW56

TEST FOR NO C BIT PICK

GO TO C BIT PICK T-O SETUP

I 12084 SUB P 02 2732 27L2•••  
 I 12089 TRZ N 02 12119 S1J9-- GC58  
 I 12094 CMP 4 02 2921 29K1  
 I 12099 TRE L 12109 S109--  
 I 12104 TR 1 12134 S134-- GD58  
 I 12109 AAM @ 01 12019 S0/9•••  
 + 12114 TR 1 12014 S014

GO TO CHK ASU 03 IF ASU 02 0  
TEST ASU 02 FOR COUNT OF 2

GC57 gscans/g0014 12119 SUB P 03 2732 27C2 □  
 □ 12124 TRZ N 03 11569 /5F9 -----FP55 ALL GROUPS CHKD IF ASU 03 ZE  
 □ 12129 TR 1 12449 S449 -----GG59 GO TO CHK --&& SETUP GROUPS

GD57..... 12134 LDA # 12019 S019 □ PICK UP PREVIOUS LOADER  
 □ 12139 ULA \* 12154 S154 □ SET NEXT LOADER  
 □ 12144 AAM @ 01 12154 S1V4 □ INCR BY 00001

□ 12149 SET B 0001 □ TEST FOR EQUAL 0  
 □ 12154 LOD 8 0000 □  
 □ 12159 CMP 4 9233 □  
 □ 12164 TRE L 12189 S189 -----  
 □ 12169 LDA # 12154 S154 □ I  
 □ 12174 RCV U 13581 T581 □  
 □ 12179 TSL 1 01 13039 TOT9 -----GN63 GO TO CHAR 0 ALL BIT CHK  
 □ 12184 TR 1 12224 S224 -----  
 □ 12189 LDA # 12154 S154 . . . I  
 □ 12194 ULA \* 12199 S199 □ I  
 □ 12199 RCV U 0000 □  
 □ 12204 TZB . 07 12214 SSA4 -----I  
 □ 12209 TR 1 12224 S224 -----I  
 □ 12214 RCV U 11956 /956 . . . I  
 □ 12219 TSL 1 01 11769 /7W9 -----FU56

□ 12224 LDA # 12154 S154 . . . I PICK UP PREVIOUS LOADER  
 □ 12229 ULA \* 12244 S244 □ SET NEXT LOADER  
 □ 12234 AAM @ 01 12244 S2U4 □ INCR BY 00001

□ 12239 SET B 0001 □ TEST FOR EQUAL @  
 □ 12244 LOD 8 0000 □  
 □ 12249 CMP 4 9234 □  
 □ 12254 TRE L 12279 S279 -----  
 □ 12259 LDA # 12244 S244 □ I  
 □ 12264 RCV U 13581 T581 □  
 □ 12269 TSL 1 01 13204 T2 4 -----GP64 GO TO CHAR @ ALL BIT CHK  
 □ 12274 TR 1 12314 S314 -----GE59

□ 12279 LDA # 12244 S244 . . . I  
 □ 12284 ULA \* 12289 S289 □  
 □ 12289 RCV U 0000 □  
 □ 12294 TZB . 07 12304 ST&4 -----  
 □ 12299 TR 1 12314 S314 -----GE59  
 □ 12304 RCV U 11956 /956 . . . I  
 □ 12309 TSL 1 01 11744 /7U4 -----FT56

NEXT PAGE

GF58 014560 • 12314 LDA # 12244 S244 □  
 □ 12319 ULA \* 12334 S334 □  
 □ 12324 AAM @ 01 12334 S3T4 □  
 □ 12329 SET B 0001 □  
 □ 12334 LOD 8 0000 □  
 □ 12339 CMP 4 9223 □  
 □ 12344 TRE L 12369 S369-■-▼ TEST FOR EQUAL Z  
 □ 12349 LDA # 12334 S334 □ I  
 □ 12354 RCV U 13581 T581 □ I  
 □ 12359 TSL 1 01 13364 T3W4-■-+---GQ65 GO TO CHAR Z ALL BIT CHK  
 □ 12364 TR 1 12399 S399-■-▼  
 □ 12369 LDA # 12334 S334 .■. I  
 □ 12374 ULA \* 12379 S379 □ I  
 □ 12379 RCV U 0000 □ I  
 □ 12384 TZB • 07 12399 STI9-■-▼ TEST FOR NO C BIT PICK  
 □ 12389 RCV U 11956 /956 □ I  
 □ 12394 TSL 1 01 11829 /8S9-■-+---FX56  
 □ 12399 LDA # 12334 S334 .■. I  
 □ 12404 ULA \* 12019 S019 □  
 □ 12409 AAM @ 01 12019 S0/9 □  
 □ 12414 TR 1 12014 S014-■-+---GA57

SGL CHAR --&amp;&amp; SETUP INTERROG

GF52 ..... 12419 RAD H 03 2733 27C3 □  
 □ 12424 RAD H 02 2735 27L5 □  
 □ 12429 LDA # 10869 869 □  
 □ 12434 SUB P 2746 □  
 □ 12439 ULA \* 12474 S474 □  
 □ 12444 TR 1 12469 S469-■-▼  
 □ 12449 LDA # 12019 S019 □ I  
 □ 12454 ULA \* 12474 S474 □ I  
 □ 12459 AAM @ 01 12474 S4X4 □ I  
 □ 12464 RAD H 02 2735 27L5 □ I  
 □ 12469 SET B 0001 .■. I  
 □ 12474 LOD 8 0000 □  
 □ 12479 CMP 4 9234 □  
 □ 12484 TRE L 12509 S509-■-▼ TEST FOR EQUAL @  
 □ 12489 LDA # 12474 S474 □ I  
 □ 12494 RCV U 13581 T581 □ I  
 □ 12499 TSL 1 01 13204 T2 4-■-+---GP64 GO TO CHAR @ ALL BIT CHK  
 □ 12504 TR 1 12544 S544-■-▼  
 □ 12509 LDA # 12474 S474 .■. I  
 □ 12514 ULA \* 12519 S519 □ I  
 □ 12519 RCV U 0000 □ I  
 □ 12524 TZB • 07 12534 SVC4-■-▼ TEST FOR C BIT DROP  
 □ 12529 TR 1 12544 S544-■-▼  
 □ 12534 RCV U 11956 /956 .■. I  
 □ 12539 TSL 1 01 11744 /7U4-■-+---FT56  
 □ 12544 SUB P 02 2732 27L2 .■. I  
 □ 12549 TRZ N 02 12579 S5P9-■-+---GJ60  
 □ 12554 CMP 4 02 2921 29K1 □  
 □ 12559 TRE L 12569 S569-■-▼  
 □ 12564 TR 1 12594 S594-■-+---GK60  
 □ 12569 AAM @ 01 12474 S4X4 .■. I  
 +---12574 TR 1 12469 S469 □

LOD TEST ADDRESS  
REDUCE BY 19  
SET FIRST CHAR CHK ADDR.

4

2

4

TEST FOR EQUAL @

GO TO CHAR @ ALL BIT CHK

TEST FOR C BIT DROP

GJ59 gscans,g0014 12579 SUB P 03 2732 27C2 □  
 □ 12584 TRZ N 03 11569 /5F9 -----FP55  
 □ 12589 TR 1 11994 /994 -----FZ57 ALL GROUPS CHKD IF ASU 03 ZER  
 GO TO CHK &&--- SETUP GROUPS

GK59 ..... 12594 LDA # 12474 S474 □  
 □ 12599 ULA \* 12614 S614 □  
 □ 12604 AAM @ 01 12614 S6/4 □  
 □ 12609 SET B 0001 □  
 □ 12614 LOD 8 0000 □  
 □ 12619 CMP 4 9223 □  
 □ 12624 TRE L 12649 S649 ----- TEST FOR EQUAL Z  
 □ 12629 LDA # 12614 S614 □  
 □ 12634 RCV U 13581 T581 □  
 □ 12639 TSL 1 01 13364 T3W4 -----GQ65 GO TO CHAR Z ALL BIT CHK  
 □ 12644 TR 1 12679 S679 -----  
 □ 12649 LDA # 12614 S614 •••  
 □ 12654 ULA \* 12659 S659 □  
 □ 12659 RCV U 0000 □  
 □ 12664 TZB • 07 12679 SWG9 ----- TEST FOR NO C BIT PICK  
 □ 12669 RCV U 11956 /956 □  
 □ 12674 TSL 1 01 11829 /859 -----FX56  
 □ 12679 LDA # 12614 S614 •••  
 □ 12684 ULA \* 12699 S699 □  
 □ 12689 AAM @ 01 12699 S6Z9 □  
 □ 12694 SET B 0001 □  
 □ 12699 LOD 8 0000 □  
 □ 12704 CMP 4 9224 □  
 □ 12709 TRE L 12734 S734 ----- TEST FOR EQUAL C  
 □ 12714 LDA # 12699 S699 □  
 □ 12719 RCV U 13581 T581 □  
 □ 12724 TSL 1 01 12874 S8X4 -----GM62 GO TO CHAR C ALL BIT CHK  
 □ 12729 TR 1 12764 S764 -----GL61  
 □ 12734 LDA # 12699 S699 •••  
 □ 12739 ULA \* 12744 S744 □  
 □ 12744 RCV U 0000 □  
 □ 12749 TZB • 07 12764 SXF4 -----GL61 TEST FOR NO C BIT PICK  
 □ 12754 RCV U 11956 /956 □  
 □ 12759 TSL 1 01 11804 /8 4 -----FW56

NEXT PAGE

GL60...0014580.phg  
12764 LDA # 12699 S699 □  
12769 ULA \* 12784 S784 □  
12774 AAM @ 01 12784 S7Y4 □  
□

PICK UP PREVIOUS LOADER  
SET NEXT LOADER  
INCR BY 00001

12779 SET B 0001 □
12784 LOD 8 0000 □
12789 CRP 4 9293 □
12794 TBC L 12699 S819 □
12799 LDA # 12624 S784 □
12804 RCV U 12621 T681 □
12809 TSL I 01 12039 TOT9 □
12814 TR I 12654 S854 □
12819 LDA # 12704 S784 □
12824 ULA * 12629 S829 □
12829 RCV U 0000 □
12834 TZB . 07 12844 SYD4 □
12839 TR I 12654 S854 □
12844 RCV U 11756 /956 □
12849 TSE I 01 12769 /7W9 □
12854 LDA # 12774 S784 □
12859 ULA * 12784 S474 □
12864 AAM @ 01 12774 S784 □
12869 TR I 12699 S859 □

TEST FOR EQUAL 0

GN63 GO TO CHAR 0 ALL BIT CHK

TEST FOR C BIT DROP

FU56

GM59

## CHAR C ALL BIT CHECK

C--X

PLACE C IN SB PART OF T-0  
 ECA INTO T-0  
 SET BIT CHK ADDR  
 SET BCA ERR CONTS ADDR

## RESET BIT BREAKDOWN

BIT CHECK ADDRESS  
 TEST FOR 1 BIT DROP

----D

TEST FOR 2 BIT DROP

----D-

TEST FOR NO 4 BIT PICK  
 \_\_\_\_\_P\_\_\_\_\_

TEST FOR NO 8 BIT PICK

\_\_\_\_P\_\_\_\_\_

TEST FOR A BIT DROP

---D---

TEST FOR B BIT DROP

-D-----

TEST FOR NO C BIT PICK

P\_\_\_\_\_

BCA ERROR CONTENTS  
 C--X

GM57  
 GM60.....\*• 12874 RCV U 2889 □  
 □ 12879 TMT 9 10 9224 9KK4 □  
 □ 12884 UNL 7 2886 □  
 □ 12889 ULA \* 12924 S924 □  
 □ 12894 ULA \* 13024 T024 □  
 □  
 □ 12899 SET B 0007 □  
 □ 12904 LOD 8 3527 □  
 □ 12909 UNL 7 2901 □  
 □ 12914 SET B 0002 □  
 □ 12919 UNL 7 2891 □  
 -----  
 □ 12924 RCV U 0000 □  
 □ 12929 TZB • 01 12939 S9T9 □-□  
 □ 12934 TR 1 12944 S944 □-□  
 □ 12939 UNL 7 08 2901 2R01 □-□  
 □  
 □ 12944 TZB • 02 12954 S9N4 □-□  
 □ 12949 TR 1 12959 S959 □-□  
 □ 12954 UNL 7 08 2900 2R00 □-□  
 □  
 □ 12959 TZB • 03 12969 S9F9 □-□  
 □ 12964 UNL 7 09 2899 2QZ9 □-□  
 □  
 □ 12969 TZB • 04 12979 SZ79 □-□  
 □ 12974 UNL 7 09 2898 2QZ8 □-□  
 □  
 □ 12979 TZB • 05 12989 SZY9 □-□  
 □ 12984 TR 1 12994 S994 □-□  
 □ 12989 UNL 7 08 2897 2Q97 □-□  
 □  
 □ 12994 TZB • 06 13004 T -4 □-□  
 □ 12999 TR 1 13009 T009 □-□  
 □ 13004 UNL 7 08 2896 2Q96 □-□  
 □  
 □ 13009 TZB • 07 13019 T A9 □-□  
 □ 13014 UNL 7 09 2895 2QZ5 □-□  
 -----  
 13019 SET B 0001 ..... □-□  
 13024 LOD 8 0000 □  
 13029 UNL 7 2892 □  
 13034 TR 1 13524 T524 -----GR65

CHAR 0 ALL BIT CHECK

0--X

ECA INTO T-O  
 SET BIT CHK ADDR  
 SET BCA ERR CONTS ADDR

RESET BIT BREAKDOWN

## BIT CHECK ADDRESS

-----P-----

-----D-----

-----D-----

-----P-----

-----P-----

-----D-----

-----D-----

BCA ERROR CONTENTS  
 0--X INTO T-O

gnns/g0014561.mpu.....  
 GN58  
 GN61.....  
 □ 13039 RCV U 2889 □  
 □ 13044 TMT 9 10 9233 9KL3 □  
 □ 13049 UNL 7 2886 □  
 □ 13054 ULA \* 13089 T089 □  
 □ 13059 ULA \* 13189 T189 □  
 □ 13064 SET B 0007 □  
 □ 13069 LOD 8 3527 □  
 □ 13074 UNL 7 2901 □  
 □ 13079 SET B 0002 □  
 □ 13084 UNL 7 2891 □  
 .....I.....  
 .....I.....

□ 13089 RCV U 0000 □  
 □ 13094 TZB 01 13104 T1 4---  
 □ 13099 UNL 7 09 2901 2R 1 □  
 □ 13104 TZB 02 13114 T1J4---  
 □ 13109 TR 1 13119 T119---  
 □ 13114 UNL 7 08 2900 2R00.0.0  
 □ 13119 TZB 03 13129 T1B9---  
 □ 13124 TR 1 13134 T134---  
 □ 13129 UNL 7 09 2899 2Q99.0.0  
 □ 13134 TZB 04 13144 T/44---  
 □ 13139 UNL 7 09 2898 2QZ8 □  
 □ 13144 TZB 05 13154 T/V4---  
 □ 13149 UNL 7 09 2897 2QZ7 □  
 □ 13154 TZB 06 13164 T/04---  
 □ 13159 TR 1 13169 T169---  
 □ 13164 UNL 7 08 2896 2Q96.0.0  
 □ 13169 TZB 07 13179 T/G9---  
 □ 13174 TR 1 13184 T184---  
 □ 13179 UNL 7 08 2895 2Q95.0.0  
 □ 13184 SET B 0001-----  
 □ 13189 LOD 8 0000 □  
 □ 13194 UNL 7 2892 □  
 □ 13199 TR 1 13524 T524-----

GR65

CHAR @ ALL BIT CHECK

@--X

ECA INTO T-0  
 SET BCA  
 SET BCA ERR CONTS ADDR

## RESET BIT BREAKDOWN

GP58.....  
 GP59.....  
 scsans/g00140.png  
 13204 RCV U 2889  
 13209 TMT 9 10 9234 9KL4  
 13214 UNL 7 2886  
 13219 ULA \* 13254 T254  
 13224 ULA \* 13349 T349  
 13229 SET B 0007  
 13234 LOD 8 3527  
 13239 UNL 7 2901  
 13244 SET B 0002  
 13249 UNL 7 2891

I  
 13254 RCV U 0000  
 13259 TZB 0 01 13269 T2W9  
 13264 UNL 7 09 2901 2R 1  
 13269 TZB 0 02 13279 T2P9  
 13274 UNL 7 09 2900 2R 0  
 13279 TZB 0 03 13289 T2H9  
 13284 TR 1 13294 T294  
 13289 UNL 7 08 2899 2Q99  
 13294 TZB 0 04 13304 TT04  
 13299 TR 1 13309 T309  
 13304 UNL 7 08 2898 2Q98  
 13309 TZB 0 05 13319 TT/9  
 13324 UNL 7 09 2897 2Q27  
 13329 TZB 0 06 13329 TTK9  
 13324 UNL 7 09 2896 2Q26  
 13339 TZB 0 07 13339 TTC9  
 13334 TR 1 13344 T344  
 13339 UNL 7 08 2895 2Q95  
 13344 SET B 0001  
 13349 LOD 8 0000  
 13354 UNL 7 2892  
 13359 TR 1 13524 T524

BIT CHECK ADDRESS

-----P-----

-----P-----

-----D-----

-----D-----

-----P-----

-----P-----

-----D-----

BCA ERROR CONTENTS  
 @--X INTO T-0

GR65

CHAR Z ALL BIT CHECK

Z--X

ECA INTO T-O

SET BCA

SET BCA ERR CONTS ADDR

RESET BIT BREAKDOWN

---

BIT CHECK ADDRESS

-----D

-----P-

-----P--

----D----

---D-----

-P-----

P-----

BCA ERROR CONTENTS  
Z--X INTO T-O

BYPASS T-O IF 0911 ON

000000 X--X -----

BYPASS TABULATION IF 0915 ON

GO TO BP DROP OR PICK TABULATN

SET MARTAB TR BACK  
GO TO MARTAB

SET SEGTAB RETURN

gns/g0014562.BIN  
 GQ59  
 GQ60.....  
 □ 13364 RCV U 2889 □  
 □ 13369 TMT 9 10 9223 9KK3 □  
 □ 13374 UNL 7 2886 □  
 □ 13379 ULA \* 13414 T414 □  
 □ 13384 ULA \* 13509 T509 □  
 □  
 □ 13389 SET B 0007 □  
 □ 13394 LOD 8 3527 □  
 □ 13399 UNL 7 2901 □  
 □ 13404 SET B 0002 □  
 □ 13409 UNL 7 2891 □  
 □□□□□□□□I□□□□□□□□□□□□

I  
 □ 13414 RCV U 0000 □  
 □ 13419 TZB ♦ 01 13429 T4S9-■-■  
 □ 13424 TR I 13434 T434-■-■  
 □ 13429 UNL 7 08 2901 2R01.■.■.■  
 □  
 □ 13434 TZB ♦ 02 13444 T4M4-■-■-■  
 □ 13439 UNL 7 09 2900 2R 0 □ I  
 □  
 □ 13444 TZB ♦ 03 13454 T4E4-■-■-■  
 □ 13449 UNL 7 09 2899 2QZ9 □ I  
 □  
 □ 13454 TZB ♦ 04 13464 TU64-■-■-■  
 □ 13459 TR I 13469 T469-■-■  
 □ 13464 UNL 7 08 2898 2Q98.■.■.■  
 □  
 □ 13469 TZB ♦ 05 13479 TUX9-■-■-■  
 □ 13474 TR I 13484 T484-■-■  
 □ 13479 UNL 7 08 2897 2Q97.■.■.■  
 □  
 □ 13484 TZB ♦ 06 13494 TUR4-■-■-■  
 □ 13489 UNL 7 09 2896 2QZ6 □ I  
 □  
 □ 13494 TZB ♦ 07 13504 TV&4-■-■-■  
 □ 13499 UNL 7 09 2895 2QZ5 □ I  
 □  
 □  
 □ 13504 SET B 0001.■.■.■.■.■.  
 □ 13509 LOD 8 0000 □  
 □ 13514 UNL 7 2892 □  
 □ 13519 TR I 13524 T524-■-■  
 □□□□□□□□I□□□□□□□□

I  
 □  
 □  
 □  
 □

GR62  
 GR63  
 GR64.....  
 □ 13524 TAA I 01 13549 T5U9-■-■-■  
 □  
 □ 13529 SEL 2 0500 □ I  
 □ 13534 WR R 2881 □ I  
 □  
 □ 13539 TMC O 11 13544 TND4-■-■  
 □ 13544 TRC O 12 13549 TE49-■-■  
 □  
 □ 13549 TAE I 05 13584 TVY4-■-■-■  
 □□□□□□□□I□□□□□□□□

I  
 □ 13554 RCV U 5706 □ I  
 □ 13559 TSL 1 01 5424 54S4-■-■-■ CK24  
 □  
 □ 13564 RCV U 7686 □ I  
 □ 13569 TSL 1 01 5714 57/4-■-■-■ CM26  
 □  
 □ 13574 RCV U 17716 X716 □ I  
 □ 13579 TSL 1 01 17289 X2Y9-■-■-■ JN86  
 □  
 □ 13584 TR I 12049 S049-■-■-■ GB57  
 □□□□□□□□I□□□□□□□□

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8 MU 98

SECTIONS 8 AND 9- C-I-R AREA

080004  
SET INITIAL TEST ADDR

## SECTION 9 SWITCH

## DETERMINE MEMORY HALF

--&& IF 8000 UP & 2000 DOWN

--&& IF 800 UP & 200 DOWN

&-- IF 8000-800-80 DOWN  
--& IF 80 UP & 20 DOWN  
&-- MUST BE ZERO

EE-- IF 8000 UP & 2000 DOWN

~~E<sub>z</sub>E<sub>z</sub>=-~~ IF 800 UP & 200 DOWN

--&& IF 8000-800-80 DOWN  
&&-- IF 80 UP & 20 DOWN

TEST FOR ODD OR EVEN TENS ADDR

--&&  
EVEN TENS ADDR IF NO 1 BIT  
MUST BE ODD

&--  
EVEN TENS ADDR IF NO 1 BIT  
MUST BE ODD

COMMON TEST ADDRESS - NON EXEC

```

    13589 LDA # 2799
    13594 ULA * 13729 T729
    13599 NOP A 13654 T654
    13604 RCV U 13726 T726
    13609 TZB • 04 13619 TW19
    13614 TZB • 02 13699 T6R9
    13619 RCV U 13727 T727
    13624 TZB • 04 13634 TW34
    13629 TZB • 02 13699 T6R9
    13634 RCV U 13728 T728
    13639 TZB • 04 13714 TX14
    13644 TZB • 02 13699 T6R9
    13649 TR 1 13714 T714
    13654 RCV U 13726 T726
    13659 TZB • 04 13669 TW69
    13664 TZB • 02 13714 T7J4
    13669 RCV U 13727 T727
    13674 TZB • 04 13684 TW84
    13679 TZB • 02 13714 T7J4
    13684 RCV U 13728 T728
    13689 TZB • 04 13699 TW99
    13694 TZB • 02 13714 T7J4
    13699 RCV U 13728 T728
    13704 TZB • 01 14149 U1U9
    13709 TR 1 13734 T734
    13714 RCV U 13728 T728
    13719 TZB • 01 13734 T7T4
    13724 TR 1 14149 U149
    13729 LOD 8 0000

```

NEXT PAGE

• 13734 LDA # 13729 T729 □  
□ 13739 SUB P 2735 □  
□ 13744 ULA \* 13764 T764 □  
□ 13749 ULA \* 13794 T794 □  
□ 13754 ULA \* 13804 T804 □  
□ 13759 ULA \* 13849 T849 □  
□ □  
□ 13764 RCV U 0000 □  
□ □  
□ 13769 NOP A 13784 T784 - - -  
□ □  
□ 13774 TMT 9 05 9410 9U/0 □  
□ 13779 TR 1 13789 T789 - - -  
□ 13784 TMT 9 05 9395 9T25 . . .  
□ □  
□ 13789 RCV U 9420 • • • •  
□ 13794 TMT 9 05 0000 0 0  
□ 13799 TR 1 13834 T834 - - -  
□ □

G 10 - COMPLEMENT AREA  
LOD COMMON TEST ADDR  
REDUCE BY 4  
SET COMPLEMENT ADDR  
SET CA NO BIT TRANSMITTER  
SET RECOMPLEMENT ADDR  
SET NO BIT CHECK ADDR

## COMPLEMENT ADDRESS

## SECTION 9 SWITCH

REPLACE ALL BITS WITH NO BITS  
REPLACE ALL BITS WITH NO BITS

INTO DEPOSIT AREA  
CA NO BIT TRANSMITTER  
GO TO CHK RETENTIVITY

■ 13804 RCV U 0000 □  
□ 13809 NOP A 13824 T824-■-●  
□ 13814 TMT 9 05 9395 9TZ5 □ .II  
□ 13819 TR 1 13984 T984-■-● GY68  
□ 13824 TMT 9 05 9410 9U/0.■ .II  
□ 13829 TR 1 13984 T984-■-● GY68

## - TO & RECOMPLEMENT AREA

## RECOMPLEMENT ADDRESS

## SECTION 9 SWITCH

REPLACE NO BITS WITH ALL BITS  
REPLACE NO BITS WITH ALL BITS

**NO BIT RETENTIVITY CHECK**

□	13924	SET B	0007	•••••	■	■
□	13929	LOD 8	2901		□	
□	13934	CMP 4	3527		□	
□	13939	TRE L	13954	T954	-----	GX68
□					□	
□	13944	RCV U	14741	U741	□	
□	13949	TSL 1 01	14629	U6S9	-----	HE71
□					□	

#### RESET BIT BREAKDOWN

**NO BIT CHECK ADDRESS**

—P

P

—D—

— 1 —

— 1 —

-B

B

LOD BIT BREAKDOWN PART OF T-O  
TEST FOR EQUAL TO -----

**BIT PICK-IF NOT EQUAL**

NEXT PAGE

GX67 Gx67scans/g0014738.jpg  
 GX72 . . . . . 13954 SET B 0004  
 □ 13959 LOD 8 13849 T849 □  
 □ 13964 CMP 4 13729 T729 □  
 □ 13969 TRE L 13804 T804 -----GV67  
 □  
 □ 13974 AAM @ 01 13849 T8U9 □  
 □ 13979 TR 1 13834 T834 -----GW67  
 □  
 GY67 GY69 . . . . . 13984 NOP A 14009 U009 -----  
 □  
 □  
 □ 13989 LDA # 13729 T729 □ I  
 □ 13994 CMP 4 2842 □ I  
 □ 13999 TRE L 14039 U039 -----  
 □ 14004 TR 1 14024 U024 -----  
 □  
 □ 14009 LDA # 13729 T729 . . . . .  
 □ 14014 CMP 4 2842 . . . . .  
 □ 14019 TRE L 14094 U094 -----  
 □  
 □ 14024 LDA # 8299 . . . . .  
 □ 14029 AAM @ 13729 T729 . . . . .  
 □ 14034 TR 1 13599 T599 -----GT66  
 □  
 □ 14039 TAA I 01 14064 U0W4 -----  
 □ 14044 SEL 2 0500 . . . . .  
 □ 14049 WR R 9147 . . . . .  
 □  
 □ 14054 TMC O 11 14059 U-E9 -----  
 □ 14059 TRC O 12 14064 U&64 -----  
 □  
 □ 14064 TAF I 06 14079 U P9 -----  
 . . . . . 14069 TAB I 02 9994 99R4 -----ET47  
 . . . . . 14074 TR 1 10109 109 -----EU48  
 □  
 □ 14079 RCV U 2601 . . . . .  
 □ 14084 TSL I 01 2114 21/4 -----AQ12 GO TO TAB PRINT AREA  
 . . . . . 14089 TR 1 14069 U069 . . . . .  
 □  
 □ 14094 TAA I 01 14119 U1/9 -----  
 □ 14099 SEL 2 0500 . . . . .  
 □ 14104 WR R 9151 . . . . .  
 □  
 □ 14109 TMC O 11 14114 UJA4 -----  
 □ 14114 TRC O 12 14119 UA19 -----  
 □  
 □ 14119 TAF I 06 14134 U/L4 -----  
 . . . . . 14124 TAB I 02 10109 1-9 -----EU48  
 . . . . . 14129 TR 1 10254 254 -----EV48  
 □  
 □ 14134 RCV U 2601 . . . . .  
 □ 14139 TSL I 01 2114 21/4 -----AQ12 GO TO TAB PRINT AREA  
 . . . . . 14144 TR 1 14124 U124 . . . . .

LOD NBCA TEST FOR EQUAL TO CTA  
 INCREASE NBCA BY 000001  
 SECTION 9 SWITCH  
 LOD TEST ADDR TEST FOR 159999 SECTION 8 COMPLETE  
 LOD TEST ADDR TEST FOR 159999 SECTION 9 COMPLETE  
 000005 INCREASE COMMON TEST ADDR  
 SECTION 8 COMPLETE  
 PRINT TAB RESULTS IF 0916 ON REPEAT SECT 8 IF 0912 ON GO TO SECTION 9  
 GO TO TAB PRINT AREA  
 SECTION 9 COMPLETE  
 PRINT TAB RESULTS IF 0916 ON REPEAT SECT 9 IF 0912 ON GO TO SECTION 10  
 GO TO TAB PRINT AREA

## - TO &amp; COMPLEMENT AREA

LOD COMMON TEST ADDR  
 REDUCE BY 4  
 SET COMPLEMENT ADDR  
 SET CA ALL BIT TRANSMITTER  
 SET RECOMPLEMENT ADDR

GZ66.....  
 14149 LDA # 13729 T729 □  
 14154 SUB P 2735 □  
 14159 ULA \* 14174 U174 □  
 14164 ULA \* 14204 U204 □  
 14169 ULA \* 14214 U214 □  
 14174 RCV U 0000 □  
 14179 NOP A 14194 U194 □  
 14184 TMT 9 05 9395 9TZ5 □  
 14189 TR 1 14199 U199 □  
 14194 TMT 9 05 9410 9U/0 □  
 14199 RCV U 9420 □  
 14204 TMT 9 05 0000 0 0 □  
 14209 TR 1 14244 U244 □  
 14214 RCV U 0000 □  
 14219 NOP A 14234 U234 □  
 14224 TMT 9 05 9410 9U/0 □  
 14229 TR 1 13984 T984 □  
 14234 TMT 9 05 9395 9TZ5 □  
 14239 TR 1 13984 T984 □  
 14244 LDA # 13729 T729 □  
 14249 ULA \* 14259 U259 □  
 14254 SET B 0005 □  
 14259 LOD 8 0000 □  
 14264 CMP 4 2858 □  
 14269 TRE L 14279 U279 □  
 14274 TR 1 14439 U439 □  
 14279 LDA # 14259 U259 □  
 14284 SUB P 2735 □  
 14289 ULA \* 14299 U299 □  
 14294 RAD H 02 2736 27L6 □  
 14299 RCV U 0000 □  
 14304 TZB . 07 14329 UTB9 □  
 14309 SUB P 02 2732 27L2 □  
 14314 TRZ N 02 14214 U2J4 □  
 14319 AAM @ 01 14299 U2Z9 □  
 14324 TR 1 14299 U299 □

COMPLEMENT ADDRESS

SECTION 9 SWITCH

REPLACE NO BITS WITH ALL BITS

REPLACE NO BITS WITH ALL BITS

INTO DEPOSIT AREA  
 CA ALL BIT TRANSMITTER  
 GO TO CHK RETENTIVITY

## &amp; TO - RECOMPLEMENT AREA

RECOMPLEMENT ADDRESS

SECTION 9 SWITCH

REPLACE ALL BITS WITH NO BITS

REPLACE ALL BITS WITH NO BITS

## ALL BIT RETENTIVITY CHECK

LOD COMMON TEST ADDR  
 SET GMCA

GM CHECK ADDRESS  
 TEST FOR 5 EQUAL GROUP MARKS  
 OK - GO TO CHK FOR C BIT DROP  
 BIT DROP - IF NOT EQUAL

## C BIT DROP CHK-ALL BIT CHK SEC

LOD GMCA  
 REDUCE BY 4  
 SET CBDC ADDR  
 5

C BIT DROP CHK ADDRESS  
 ERROR - IF NO C BIT

REDUCE CTR BY 1

INCREASE CBDCA BY 000001

HA71.....

14214 RCV U 0000 □  
 14219 NOP A 14234 U234 □  
 14224 TMT 9 05 9410 9U/0 □  
 14229 TR 1 13984 T984 □  
 14234 TMT 9 05 9395 9TZ5 □  
 14239 TR 1 13984 T984 □  
 14244 LDA # 14259 U259 □  
 14249 ULA \* 14259 U259 □  
 14254 SET B 0005 □  
 14259 LOD 8 0000 □  
 14264 CMP 4 2858 □  
 14269 TRE L 14279 U279 □  
 14274 TR 1 14439 U439 □  
 14279 LDA # 14259 U259 □  
 14284 SUB P 2735 □  
 14289 ULA \* 14299 U299 □  
 14294 RAD H 02 2736 27L6 □  
 14299 RCV U 0000 □  
 14304 TZB . 07 14329 UTB9 □  
 14309 SUB P 02 2732 27L2 □  
 14314 TRZ N 02 14214 U2J4 □  
 14319 AAM @ 01 14299 U2Z9 □  
 14324 TR 1 14299 U299 □

HB70....

I  
 C69.....  
 gscans,g001  
 14329 SET B 0006  
 14334 LOD 8 3527  
 14339 UNL 7 2901  
 14344 UNL 7 08 2895 2Q95  
 14349 SET B 0004  
 14354 LOD 8 9198  
 14359 UNL 7 2892  
 14364 LDA # 14299 U299  
 14369 UNL 7 2886  
 I

14374 TAA I 01 14399 U3Z9  
 14379 SEL 2 0500  
 14384 WR R 2881  
 14389 TMC 0 11 14394 UL14  
 14394 TRC 0 12 14399 UC99  
 14399 TAE I-05 14434 UUT4  
 I

14404 RCV U 2106  
 14409 TSL 1 01 4849 48U9 CA21  
 14414 RCV U 7686  
 14419 TSL 1 01 5714 57/4 CM26  
 14424 RCV U 17716 X716  
 14429 TSL 1 01 17289 X2Y9 JN86  
 14434 TR 1 14309 U309 HB69  
 I

HD69.....  
 14439 LDA # 14259 U259  
 14444 SUB P 2735  
 14449 ULA \* 14474 U474  
 14454 RAD H 02 2736 27L6  
 I

SETUP C BIT DROP T-O

D FOR DROP INTO T-O  
 D-----

-AB-  
 INTO T-O

LOD CBDCA  
 INTO T-O

BYPASS T-O IF 0911 ON

000000 -AB- D-----

BYPASS TABULATION IF 0915 ON

SET VAR RETRACE TR BACK  
 GO TO C BIT TAB

SET MARTAB TR BACK  
 GO TO MARTAB

SET SEGTAB RETURN

VARIABLE TR BACK

ALL BIT CHECK-BIT DROP DETERMT

LOD GMCA  
 REDUCE BY 4  
 SET ABDCA  
 5

NEXT PAGE

systems/g0014565.pnc

14459	SET B	0007	□
14464	LOD 8	3527	□
14469	UNL 7	2901	□
14474	RCV U	0000	□
14479	TZB 01	14489 U4Y9	■■■■■
14484	TR 1	14494 U494	■■■■■
14489	UNL 7 08	2901 2R01	■■■■■
14494	TZB 02	14504 U5-4	■■■■■
14499	TR 1	14509 U509	■■■■■
14504	UNL 7 08	2900 2R00	■■■■■
14509	TZB 03	14519 U5A9	■■■■■
14514	TR 1	14524 U524	■■■■■
14519	UNL 7 08	2899 2Q99	■■■■■
14524	TZB 04	14534 UV34	■■■■■
14529	TR 1	14539 U539	■■■■■
14534	UNL 7 08	2898 2Q98	■■■■■
14539	TZB 05	14549 UVU9	■■■■■
14544	TR 1	14554 U554	■■■■■
14549	UNL 7 08	2897 2Q97	■■■■■
14554	TZB 06	14564 UV04	■■■■■
14559	TR 1	14569 U569	■■■■■
14564	UNL 7 08	2896 2Q96	■■■■■
14569	TZB 07	14579 UVG9	■■■■■
14574	TR 1	14584 U584	■■■■■
14579	UNL 7 08	2895 2Q95	■■■■■

RESET BIT BREAKDOWN

ALL BIT DROP CHK ADDRESS

-----D

-----D-

-----D--

-----D-

-----D---

-----D----

D-----

LOD BIT BREAKDOWN PART OF T-O  
TEST FOR -----

BIT DROP - IF NOT EQUAL

REDUCE CTR BY 1

INCREASE ABDCA BY 000001

BIT PICK T-O SETUP

LOD NBCA INTO T-O

-NB- INTO T-O

BIT DROP T-O SETUP

LOD ABDCA INTO T-O

-AB- INTO T-O

HE67.....

14629	LDA #	13849 T849	□
14634	UNL 7	2886	□
14639	SET B	0004	□
14644	LOD 8	9197	□
14649	UNL 7	2892	□
14654	TR 1	14684 U684	■■■■■

HA69

14659	LDA #	14474 U474	■■■■■
14664	UNL 7	2886	□
14669	SET B	0004	□
14674	LOD 8	9193	□
14679	UNL 7	2892	□

NEXT PAGE

14694 TAA I 01 14709 UT 9  
14694 SEL 2 0500  
14694 WR R 2881  
14699 TMC 0 11 14704 UP64  
14704 TRC 0 12 14709 UG09  
14709 TAE I 05 14744 UXU4

BYPASS T-O IF 0925 ON

000000 -XX-

BYPASS TABULATION IF 0925 ON

14714 RCV U 5706 CK24 SET BIT TAB RETURN  
14719 TSL 1 01 5424 54S4 GO TO BP DROP OR PICK  
14724 RCV U 7686 CM26 SET MARTAB RETURN  
14729 TSL 1 01 5714 57/4 GO TO MARTAB  
14734 RCV U 17716 X716 JN86 SET SEGTAB RETURN  
14739 TSL 1 01 17289 X2Y9  
14744 TR 1 13954 T954 GX68 VAR SECT 8 AND 9 RETURN

SECTIONS 10 AND 11 C-I-R ARE

080004

SET INITIAL TEST ADDR

## SECTION 11 SWITCH

DETERMINE MEMORY HALF

TEST MTA FOR 8000

--&amp;&amp; IF 8000 UP &amp; 2000 DOWN

TEST MTA FOR 800

--&amp;&amp; IF 800 UP &amp; 200 DOWN

TEST MTA FOR 80

&amp;&amp;-- IF 8000-800-80 DOWN

--&amp;&amp; IF 80 UP &amp; 20 DOWN

&amp;&amp;-- MUST BE ZERO

&amp;&amp;-- IF 8000 UP &amp; 2000 DOWN

&amp;&amp;-- IF 800 UP &amp; 200 DOWN

--&amp;&amp; IF 8000-800-80 DOWN

&amp;&amp;-- IF 80 UP &amp; 20 DOWN

TEST FOR ODD OR EVEN TENS ADDR

--&& EVEN TENS ADDR IF NO 1 BIT  
MUST BE ODD&&-- EVEN TENS ADDR IF NO 1 BIT  
MUST BE ODD

COMMON TEST ADDRESS - NON EXEC

```

H651..... 14749 LDA # 2799
  14754 ULA * 14889 U889
I
HH74..... 14759 NOP A 14814 U814
I
  14764 RCV U 14886 U886
  14769 TZB . 04 14779 UX79
  14774 TZB . 02 14859 U8N9
I
  14779 RCV U 14887 U887
  14784 TZB . 04 14794 UX94
  14789 TZB . 02 14859 U8N9
I
  14794 RCV U 14888 U888
  14799 TZB . 04 14874 UY74
  14804 TZB . 02 14859 U8N9
  14809 TR 1 14874 U874
I
  14814 RCV U 14886 U886
  14819 TZB . 04 14829 UY29
  14824 TZB . 02 14874 U8P4
I
  14829 RCV U 14887 U887
  14834 TZB . 04 14844 UY44
  14839 TZB . 02 14874 U8P4
I
  14844 RCV U 14888 U888
  14849 TZB . 04 14859 UY59
  14854 TZB . 02 14874 U8P4
I
  14859 RCV U 14888 U888
  14864 TZB . 01 15149 V1U9 HN75
  14869 TR 1 14894 U894 HJ74
I
  14874 RCV U 14888 U888
  14879 TZB . 01 14894 U8Z4 HJ74
  14884 TR 1 15149 V149 HN75
I
  14889 LOD 8 0000

```

NEXT PAGE

gscans/g001 HJ73.....  
 14894 LDA # 14889 U889  
 14899 SUB P 2735  
 14904 ULA \* 14919 U919  
 14909 ULA \* 14949 U949  
 14914 ULA \* 14959 U959  
 14919 RCV U 0000  
 14924 NOP A 14939 U939  
 14929 TMT 9 05 9410 9U/0  
 14934 TR 1 14944 U944  
 14939 TMT 9 05 9395 9T25  
 14944 RCV U 9420  
 14949 TMT 9 05 0000 0 0  
 14954 TR 1 15244 V244-----HQ75

& TO - COMPLEMENT AREA  
 LOD TEST ADDR  
 REDUCE BY 4  
 SET COMPLEMENT ADDR  
 SET CA -V-V- TRANSMITTER  
 SET RECOMPLEMENT ADDR

COMPLEMENT ADDR  
 SECTION 11 SWITCH  
 REPLACE V-V-V WITH -V-V-  
 REPLACE V-V-V WITH -V-V-

INTO DEPOSIT AREA  
 CA -V-V- TRANSMITTER  
 GO TO CHK -V-V- RETENTIVITY

HK76.....  
 14959 RCV U 0000  
 14964 NOP A 14979 U979  
 14969 TMT 9 05 9395 9T25  
 14974 TR 1 14984 U984  
 14979 TMT 9 05 9410 9U/0  
 14984 NOP A 15009 V009  
 14989 LDA # 14889 U889  
 14994 CMP 4 2842  
 14999 TRE L 15039 V039  
 15004 TR 1 15024 V024  
 15009 LDA # 14889 U889  
 15014 CMP 4 2842  
 15019 TRE L 15094 V094-----HM75  
 15024 LDA # 8299  
 15029 AAM @ 14889 U889  
 15034 TR 1 14759 U759-----HH73

- TO & RECOMPLEMENT AREA  
 RECOMPLEMENT ADDR  
 SECTION 11 SWITCH  
 REPLACE -V-V- WITH V-V-V  
 REPLACE -V-V- WITH V-V-V

SECTION 11 SWITCH

LOD TEST ADDR  
 TEST FOR 159999  
 SECTION 10 COMPLETE

LOD TEST ADDR  
 TEST FOR 159999  
 SECTION 11 COMPLETE

000005  
 INCREASE COMMON TEST ADDR

SECTION 10 COMPLETE

PRINT TAB RESULTS IF 0916 ON  
 REPEAT SECTION 10 IF 0912 ON  
 GO TO SECTION 11

.. 15039 TAA I 01 15064 V0W4  
 15044 SEL 2 0500  
 15049 WR R 9155  
 15054 TMC O 11 15059 V-E9  
 15059 TRC O 12 15064 V&64  
 15064 TAF I 06 15079 V P9  
 .. 15069 TAB I 02 10254 2N4-----EV48  
 15074 TR 1 10354 354-----EW49  
 15079 RCV U 2601  
 15084 TSL I 01 2114 21/4-----AQ12  
 +---15089 TR 1 15069 V069

HM74.....  
 g 15094 TAA I 01 15119 V1/9  
 □ 15099 SEL 2 0500  
 □ 15104 WR R 9160  
 □ 15109 TMC O 11 15114 VJA4  
 □ 15114 TRC O 12 15119 VA19  
 □ 15119 TAF I 06 15134 V/L4  
 ••• 15124 TAB I 02 10354 3N4  
 □ 15129 TR 1 10484 484  
 ••• 15134 RCV U 2601  
 □ 15139 TSL 1 01 2114 21/4  
 +--- 15144 TR 1 15124 V124

SECTION 11 COMPLETE

PRINT TAB RESULTS IF 0916 ON  
REPEAT SECTION 11 IF 0912 ON  
GO TO SECTION 12

HN73.....  
 . 15149 LDA # 14889 U889  
 □ 15154 SUB P 2735  
 □ 15159 ULA \* 15174 V174  
 □ 15164 ULA \* 15204 V204  
 □ 15169 ULA \* 15214 V214  
 □ 15174 RCV U 0000  
 □ 15179 NOP A 15194 V194  
 □ 15184 TMT 9 05 9395 9TZ5  
 □ 15189 TR 1 15199 V199  
 □ 15194 TMT 9 05 9410 9U/0  
 □ 15199 RCV U 9420  
 □ 15204 TMT 9 05 0000 0 0  
 □ 15209 TR 1 15429 V429  
 ----- HT76

- TO &amp; COMPLEMENT AREA

LOD TEST ADDR  
REDUCE BY 4  
SET COMPLEMENT ADDR  
SET CA V-V-V TRANSMITTER  
SET RECOMPLEMENT ADDR

COMPLEMENT ADDRESS

SECTION 11 SWITCH

REPLACE -V-V- WITH V-V-V

REPLACE -V-V- WITH V-V-V

INTO DEPOSIT AREA  
CA V-V-V TRANSMITTER  
GO TO CHK V-V-V RETENTIVITY

&amp; TO - RECOMPLEMENT AREA

RECOMPLEMENT ADDR

SECTION 11 SWITCH

REPLACE V-V-V WITH -V-V-

REPLACE V-V-V WITH -V-V-

CHAR - RETENTIVITY CHK-0101010

LOD & TO - COMPLEMENT ADDR  
SET MINUS 0 CHK ADDR  
5-----  
RESET BIT BREAKDOWN

HP77.....  
 . 15214 RCV U 0000  
 □ 15219 NOP A 15234 V234  
 □ 15224 TMT 9 05 9410 9U/0  
 □ 15229 TR 1 14984 U984  
 □ 15234 TMT 9 05 9395 9TZ5  
 □ 15239 TR 1 14984 U984  
 ----- HL74

HQ74.....  
 . 15244 LDA # 14919 U919  
 □ 15249 ULA \* 15274 V274  
 □ 15254 RAD H 02 2736 27L6  
 □ 15259 SET B 0007  
 □ 15264 LOD 8 3527  
 □ 15269 UNL 7 2901

NEXT PAGE

gscans/g001 15274 RCV U 0000 □  
 15279 TZB • 01 15289 V2Y9 -----  
 15284 UNL 7 09 2901 2R 1 □ I  
 15289 TZB • 02 15299 V2R9 -----  
 15294 TR 1 15304 V304 -----  
 15299 UNL 7 08 2900 2R00 .□ I  
 15304 TZB • 03 15314 V3A4 -----  
 15309 UNL 7 09 2899 2QZ9 □ I  
 15314 TZB • 04 15324 VT24 -----  
 15319 TR 1 15329 V329 -----  
 15324 UNL 7 08 2898 2Q98 .□ I  
 15329 TZB • 05 15339 VTT9 -----  
 15334 UNL 7 09 2897 2QZ7 □ I  
 15339 TZB • 06 15349 VTM9 -----  
 15344 TR 1 15354 V354 -----  
 15349 UNL 7 08 2896 2Q96 .□ I  
 15354 TZB • 07 15369 VTF9 -----  
 15359 UNL 7 09 2895 2QZ5 □ I  
 15364 TR 1 15389 V389 -----  
 15369 SET B 0007 .••••• .□ I  
 15374 LOD 8 2901 □ I  
 15379 CMP 4 3527 □ I  
 15384 TRE L 15399 V399 -----  
 15389 RCV U 15761 V761 .•• I  
 15394 TSL 1 01 15619 V6/9 ----- HU77  
 15399 SUB P 02 2732 27L2 .•• I  
 15404 TRZ N 02 14959 U9N9 ----- HK74  
 15409 LDA # 15274 V274 □ I  
 15414 ULA \* 15459 V459 □ I  
 15419 AAM @ 01 15459 V4V9 □ I  
 15424 TR 1 15444 V444 -----  
 15429 LDA # 15174 V174 □ I  
 15434 ULA \* 15459 V459 □ I  
 15439 RAD H 02 2736 27L6 □ I  
 15444 SET B 0007 .••••• .□ I  
 15449 LOD 8 3527 □ I  
 15454 UNL 7 2901 □ I

MINUS 0 CHECK ADDRESS  
 TEST FOR EXPECTED NO 1 BIT  
 ---P---  
 TEST FOR NO 2 BIT  
 ---D---  
 TEST FOR EXPECTED NO 4 BIT  
 ---P---  
 TEST FOR NO 8 BIT  
 ---D---  
 TEST FOR EXPECTED NO A BIT  
 ---P---  
 TEST FOR NO B BIT  
 ---D---  
 TEST FOR EXPECTED NO C BIT  
 P-----

LOD BIT BREAKDOWN PART OF T-0  
 TEST FOR EQUAL TO \_\_\_\_\_  
 ERROR - IF NOT EQUAL

REDUCE 5 CTR BY 1

LOD MOCA  
 SET VCA  
 INCREASE VCA BY 000001

CHAR V RETENTIVITY CHK-101010  
 LOD - TO & COMPLEMENT ADDR  
 SET V CHK ADDR  
 5

RESET BIT BREAKDOWN

NEXT PAGE

gains/g0014568.png

```

I
□ 15459 RCV U 0000 □
□ 15464 TZB • 01 15474 V4X4--■--□
□ 15469 TR 1 15479 V479--■--□
□ 15474 UNL 7 08 2901 2R01•■•■I
□ 15479 TZB • 02 15489 V4Q9--■--I
□ 15484 UNL 7 09 2900 2R 0 □ I
□ 15489 TZB • 03 15499 V4I9--■--I
□ 15494 TR 1 15504 V504--■--I
□ 15499 UNL 7 08 2899 2Q99•■•■I
□ 15504 TZB • 04 15514 VV14--■--I
□ 15509 UNL 7 09 2898 2QZ8 □ I
□ 15514 TZB • 05 15524 VVS4--■--I
□ 15519 TR 1 15529 V529--■--I
□ 15524 UNL 7 08 2897 2Q97•■•■I
□ 15529 TZB • 06 15539 VVL9--■--I
□ 15534 UNL 7 09 2896 2QZ6 □ I
□ 15539 TZB • 07 15549 VVD9--■--I
□ 15544 TR 1 15559 V559--■--I
□ 15549 UNL 7 08 2895 2Q95•■•■I
□ 15554 TR 1 15579 V579--■--I
□ 15559 SET B 0007•••••■•■I
□ 15564 LOD 8 2901 □ I
□ 15569 CMP 4 3527 □ I
□ 15574 TRE L 15589 V589--■--I
□ 15579 RCV U 15761 V761•■•■I
□ 15584 TSL 1 01 15664 V6W4--■--I

```

V CHECK ADDRESS  
TEST FOR NO 1 BIT

-----D-----  
TEST FOR EXPECTED NO 2 BIT  
----P---  
TEST FOR NO 4 BIT

----D---  
TEST FOR EXPECTED NO 8 BIT  
---P---  
TEST FOR NO A BIT

--D----  
TEST FOR EXPECTED NO B BIT  
-P---  
TEST FOR NO C BIT

D-----

LOD BIT BREAKDOWN PART OF T-O  
TEST FOR EQUAL TO -----

ERROR - IF NOT EQUAL

```

I
□ 15589 SUB P 02 2732 27L2•■•■I
□ 15594 TRZ N 02 15214 V2J4--■--HP75
□ 15599 LDA # 15459 V459 □ I
□ 15604 ULA * 15274 V274 □ I
□ 15609 AAM @ 01 15274 V2X4 □ I
□ 15614 TR 1 15259 V259--■--HR75

```

REDUCE 5 CTR BY 1

LOD VCA  
SET MOCA  
INCREASE MOCA BY 000001

HU76.....

```

I
□ 15619 RCV U 2889 □ I
□ 15624 TMT 9 08 2878 2Q78 □ I
□ 15629 SET B 03 0002 0062 □ I
□ 15634 TMT 9 03 2879 28G9 □ I
□ 15639 LDA # 15274 V274 □ I
□ 15644 ULA * 15649 V649 □ I
□ 15649 TMT 9 08 0000 0-00 □ I
□ 15654 UNL 7 2886 □ I
□ 15659 TR 1 15704 V704--■--HV78

```

-••X SHOULD BE CHAR

..

MOCA

-••X ERRONEOUS CHAR  
000000 ERROR ADDRESS

```

I
□ 15664 RCV U 2889•••••■•••I
□ 15669 TMT 9 08 2868 2Q68 □ I
□ 15674 SET B 03 0002 0062 □ I
□ 15679 TMT 9 03 2879 28G9 □ I
□ 15684 LDA # 15459 V459 □ I
□ 15689 ULA * 15694 V694 □ I
□ 15694 TMT 9 08 0000 0-00 □ I
□ 15699 UNL 7 2886 □ I

```

V••X SHOULD BE CHAR

..

VCA

V••X ERRONEOUS CHAR  
000000 ERROR ADDRESS

15724 TMC 1 01 15729 V7S9  
15724 SEL 1 05 0560  
15724 WR R 2681  
15729 TMC 0 11 15724 VPB4  
15724 TRC 0 12 15729 VG29  
15729 TAE 1 05 15764 VXW4  
15724 RCV U 5706 CK24  
15739 TSL 1 01 5424 54S4  
15744 RCV U 7686 CM26  
15749 TSL 1 01 5714 57/4  
15754 RCV U 17716 X716 JN86  
15759 TSL 1 01 11289 X2Y9  
15724 TR 1 25299 V399 HS76

BYPASS T=0 IF 0921 ON  
000000 X..X

BYPASS TABULATION IF 0925 ON

SET SEGTAB RETURN

SECTIONS 12 AND 13 C-I-R ARE  
080004  
SET INITIAL TEST ADDR

## SECTION 13 SWITCH

## DETERMINE MEMORY HALL

--&& IF 8000 UP & 2000 DOWN

--&& IF 800 UP & 200 DOWN

&&-- IF 8000-800-80 DOWN  
--&& IF 80 UP & 20 DOWN  
&&-- MUST BE ZERO

&&-- IF 8000 UP & 2000 DOWN

&&-- IF 800 UP & 200 DOWN

--&& IF 8000-800-80 DOWN  
&& IF 80 UP & 20 DOWN

TEST FOR ODD OR EVEN TENS ADDRESS

--&&  
EVEN  
MUST BE ODD        GO TO & TO - CP  
&--  
EVEN

COMMON TEST ADDRESS = NON EXEC

NEXT PAGE

HY79.....  
 scans/g0014712.000  
 15914 LDA # 15909 V909 □  
 15919 SUB P 2735 □  
 15924 ULA \* 15939 V939 □  
 15929 ULA \* 15969 V969 □  
 15934 ULA \* 15979 V979 □  
 □  
 □  
 15939 RCV U 0000 □  
 □  
 15944 NOP A 15959 V959-■-▼  
 □  
 15949 TMT 9 05 9410 9U/0 □ I  
 15954 TR 1 15964 V964-■-▼  
 15959 TMT 9 05 9395 9TZ5 ■ I  
 □  
 □  
 15964 RCV U 9420 . . . . ■ I  
 15969 TMT 9 05 0000 0 0 □  
 15974 TR 1 16264 W264-----JD81  
 □□□□□□□□□□□□□□□□□□□□□□□

& TO - COMPLEMENT AREA  
 LOD COMMON TEST ADDR  
 REDUCE BY 4  
 SET COMPLEMENT ADDR  
 SET CA @ZCO@ TRANSMITTER  
 SET RECOMPLEMENT ADDR

COMPLEMENT ADDR  
 SECTION 13 SWITCH  
 REPLACE CO@ZC WITH @ZCO@  
 REPLACE CO@ZC WITH @ZCO@  
 INTO DEPOSIT AREA  
 CA @ZCO@ TRANSMITTER  
 GO TO CHK @ZCO@ RETENTIVITY

HZ85.....  
 15979 RCV U 0000 □  
 □  
 15984 NOP A 15999 V999-■-▼  
 □  
 15989 TMT 9 05 9395 9TZ5 ■ I  
 15994 TR 1 16099 W099-■-▼  
 15999 TMT 9 05 9410 9U/0 ■ I  
 16004 TR 1 16099 W099-■-▼  
 □□□□□□□□□□□□□□□□□□□□□□□

- TO & RECOMPLEMENT AREA  
 RECOMPLEMENT ADDRESS  
 SECTION 13 SWITCH  
 REPLACE @ZCO@ WITH CO@ZC  
 REPLACE @ZCO@ WITH CO@ZC

JA79.....  
 16009 LDA # 15909 V909 □ I  
 16014 SUB P 2735 □ I  
 16019 ULA \* 16034 W034 □ I  
 16024 ULA \* 16064 W064 □ I  
 16029 ULA \* 16074 W074 □ I  
 □  
 □  
 16034 RCV U 0000 □ I  
 □  
 16039 NOP A 16054 W054-■-▼  
 □  
 16044 TMT 9 05 9395 9TZ5 ■ I  
 16049 TR 1 16059 W059-■-▼  
 16054 TMT 9 05 9410 9U/0 ■ I  
 □  
 □  
 16059 RCV U 9420 . . . . ■ I  
 16064 TMT 9 05 0000 0 0 □ I  
 16069 TR 1 16299 W299-----JE82  
 □□□□□□□□□□□□□□□□□□□□□□□

- TO & COMPLEMENT AREA  
 LOD COMMON TEST ADDR  
 REDUCE BY 4  
 SET COMPLEMENT ADDR  
 SET CA CO@ZC TRANSMITTER  
 SET RECOMPLEMENT ADDR

COMPLEMENT ADDRESS  
 SECTION 13 SWITCH  
 REPLACE @ZCO@ WITH CO@ZC  
 REPLACE @ZCO@ WITH CO@ZC

INTO DEPOSIT AREA  
 CA CO@ZC TRANSMITTER  
 GO TO CHK CO@ZC RETENTIVITY

JB83.....  
 16074 RCV U 0000 □ I  
 □  
 16079 NOP A 16094 W094-■-▼  
 □  
 16084 TMT 9 05 9410 9U/0 □ I  
 16089 TR 1 16099 W099-■-▼  
 16094 TMT 9 05 9395 9TZ5 ■ I  
 □□□□□□□□□□□□□□□□□□□□□□□

& TO - RECOMPLEMENT AREA  
 RECOMPLEMENT ADDRESS  
 SECTION 13 SWITCH  
 REPLACE CO@ZC WITH @ZCO@  
 REPLACE CO@ZC WITH @ZCO@

SECTION 13 SWITCH

gns/g0014570.mng16104 LDA # 15909 V909 □  
 □ 16109 CMP 4 2842 □  
 □ 16114 TRE L 16154 W154---I  
 □ 16119 TR 1 16139 W139---I  
 □  
 □  
 JC80.....■ 16124 LDA # 15909 V909 II  
 □ 16129 CMP 4 2842 II  
 □ 16134 TRE L 16209 W209---II  
 □  
 □  
 □ 16139 LDA # 8299.....■ I I  
 □ 16144 AAM @ 15909 V909 I I  
 □ 16149 TR 1 15779 V779---HX79  
 □  
 □  
 □ 16154 TAA I 01 16179 W1X9---I  
 □ 16159 SEL 2 0500 II  
 □ 16164 WR R 9165 II  
 □  
 □ 16169 TMC O 11 16174 WJG4---I  
 □ 16174 TRC O 12 16179 WA79---I  
 □  
 □ 16179 TAF I 06 16194 W/R4---I  
 .■ 16184 TAB I 02 10484 4Q4---EX49  
 ■ 16189 TR 1 10494 494---EY49  
 □  
 □  
 □ 16194 RCV U 2601.....■ I  
 □ 16199 TSL 1 01 2114 21/4---AQ12 GO TO TAB PRINT AREA  
 □  
 ■- 16204 TR 1 16184 W184 I  
 □  
 □  
 □ 16209 TAA I 01 16234 W2T4---I  
 □ 16214 SEL 2 0500 I  
 □ 16219 WR R 9170 I  
 □  
 □ 16224 TMC O 11 16229 WKB9---I  
 □ 16229 TRC O 12 16234 WB34---I  
 □  
 □ 16234 TAF I 06 16249 WSM9---I  
 .■ 16239 TAB I 02 10494 4R4---EY49  
 ■ 16244 TR 1 20004 -004---JT89  
 □  
 □  
 □ 16249 RCV U 2601.....■ I  
 □ 16254 TSL 1 01 2114 21/4---AQ12 GO TO TAB PRINT AREA  
 □  
 ■- 16259 TR 1 16239 W239 I  
 □  
 □  
 JD80.....■ 16264 LDA # 15939 V939 □  
 □ 16269 ULA \* 16824 W824 □  
 □  
 □ 16274 SGN T 16990 W990 □  
 □ 16279 SGN T 16545 W545 □  
 □ 16284 ADM 6 16545 W545 □  
 □  
 □ 16289 RAD H 02 2733 27L3 □  
 □ 16294 TR 1 16799 W799---JK84 2 GO TO CHAR @  
 □

LOD CTA  
TEST FOR 159999  
SECTION 12 COMPLETE

LOD CTA  
TEST FOR 159999  
SECTION 13 COMPLETE

000005  
INCREASE COMMON TEST ADDR

SECTION 12 COMPLETE

GO TO SECTION 13

GO TO TAB PRINT AREA

SECTION 13 COMPLETE

GO TO SECTION 14

GO TO TAB PRINT AREA

SETUP FOR @ZCO@ SEQ CHK  
& TO - COMPLMT ADDR  
SET CHAR @ BCA

SET @ZCO@ SEQ CHK SW

RESET CO@ZC SEQ CHK SW

2 GO TO CHAR @

gscans/g0014 0938 16299 LDA \* 16034 W034 □  
JE80 ••••• 16304 ULA \* 16374 W374 □  
□ □  
□ 16309 SGN T 16545 W545 □  
□ 16314 SGN T 16990 W990 □  
□ 16319 ADM 6 16990 W990 □  
□ □  
□ 16324 RAD H 02 2733 27L3 □  
□ 16329 TR 1 16349 W349-■-T  
□ □

## SETUP FOR CO@ZC SEQ CHK

- TO & COMPLMT ADDR  
SET CHAR C BCA

SET CO@ZC SEQ CHK SW

RESET @ZCO@ SEQ CHK SW

2  
GO TO CHAR C

LOD CHAR Z BCA  
SET CHAR C BCA  
INCREASE BY 000001

## CHAR C ALL BIT CHECK

16374	RCV	U	0	0000	□
16379	TZB	•	01	16389	W3Y9-■-■-
16384	TR	1		16394	W394-■-■-■-
16389	UNL	7	08	2901	2R01-■-■-■-■-
16394	TZB	•	02	16404	W4-4-■-■-■-■-
16399	TR	1		16409	W409-■-■-■-■-
16404	UNL	7	08	2900	2R00-■-■-■-■-
16409	TZB	•	03	16419	W4A9-■-■-■-■-
16414	UNL	7	09	2899	2QZ9 □ I
16419	TZB	•	04	16429	WU29-■-■-■-■-
16424	UNL	7	09	2898	2QZ8 □ I
16429	TZB	•	05	16439	WUT9-■-■-■-■-
16434	TR	1		16444	W444-■-■-■-■-
16439	UNL	7	08	2897	2Q97-■-■-■-■-
16444	TZB	•	06	16454	WUN4-■-■-■-■-
16449	TR	1		16459	W459-■-■-■-■-
16454	UNL	7	08	2896	2Q96-■-■-■-■-
16459	TZB	•	07	16474	WUG4-■-■-■-■-
16464	UNL	7	09	2895	2QZ5 □ I
16469	TR	1		16494	W494-■-■-■-■-

### CHAR C BIT CHECK ADDRESS

— D

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—P—

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P —————

□ 16474 SET B 0007••••••••  
□ 16479 LOD 8 2901 □  
□ 16484 CMP 4 3527 □  
□ 16489 TRE L 16549 W549-■---JH83

BIT BREAKDOWN  
TEST FOR -----  
NO ERROR

□	16494	RCV	U	2889	•	•	•	•	•
□	16499	TMT	9	08	9224	9K24	□	□	□
□	16504	LDA	*		16374	W374	□	□	□
□	16509	UNL	7		2886		□	□	□
□	16514	ULA	*		16524	W524	□	□	□
□	16519	SET	B		0001		□	□	□
□	16524	LOD	8		0000		□	□	□
□	16529	UNL	7		2892		□	□	□

C--X                                   SB CHAR

CHAR C BCA  
000000

SB CHAR

CHAR C BCA  
000000 ERROR ADDR

C--X ERROR CONTENTS

NEXT PAGE

gtrans/g0014571.sng 16534 RCV U 17281 X281 □

□ 16539 TSL 1 01 17224 X2S4 -----JM86 GO TO T-0

JG86..... 16544 TR 1 16549 W549 -----

-----I

JH82..... 16549 NOP A 16559 W559 -----

□ 16554 TR 1 16569 W569 -----I

□ 16559 SUB P 02 2732 27L2 -----I

□ 16564 TRZ N 02 16074 W0P4 -----JB80

SEQ CHK SWITCH - CO@ZC

REDUCE 2 CTR BY 1  
RETURN TO & TO - RECOMPLEMEN

-----I

□ 16569 LDA # 16374 W374 -----I

□ 16574 ULA \* 16609 W609 □

□ 16579 AAM @ 01 16609 W6 9 □

-----I

LOD CHAR C BCA  
SET CHAR O BCA  
INCREASE BY 000001

-----I

16584 SET B 0007 □

□ 16589 LOD 8 3527 □

□ 16594 UNL 7 2901 □

□ 16599 SET B 0002 □

□ 16604 UNL 7 2891 □

CHAR O BIT CHECK ADDRESS

-----I

□ 16609 RCV U 0000 □

□ 16614 TZB 01 16624 W6S4 -----I

□ 16619 UNL 7 09 2901 2R 1 □ I

□ 16624 TZB 02 16634 W6L4 -----I

□ 16629 TR 1 16639 W639 -----I

□ 16634 UNL 7 08 2900 2R00 -----I

□ 16639 TZB 03 16649 W6D9 -----I

□ 16644 TR 1 16654 W654 -----I

□ 16649 UNL 7 08 2899 2Q99 -----I

□ 16654 TZB 04 16664 WW64 -----I

□ 16659 UNL 7 09 2898 2QZ8 □ I

□ 16664 TZB 05 16674 WWX4 -----I

□ 16669 UNL 7 09 2897 2QZ7 □ I

□ 16674 TZB 06 16684 WWQ4 -----I

□ 16679 TR 1 16689 W689 -----I

□ 16684 UNL 7 08 2896 2Q96 -----I

□ 16689 TZB 07 16699 WWI9 -----I

□ 16694 TR 1 16709 W709 -----I

□ 16699 UNL 7 08 2895 2Q95 -----I

□ 16704 TR 1 16729 W729 -----I

CHAR O BIT CHECK ADDRESS

-----P

-----D-

-----D-

-----P-----

-----P-----

-----D-----

D-----

-----I

□ 16709 SET B 0007 -----I

□ 16714 LOD 8 2901 □

□ 16719 CMP 4 3527 □

□ 16724 TRE L 16784 W784 -----JJ84

TEST FOR -----  
NO ERROR

-----I

□ 16729 RCV U 2889 -----I

□ 16734 TMT 9 08 9233 9K33 □

O--X SB CHAR

□ 16739 LDA # 16609 W609 □

□ 16744 UNL 7 2886 □

□ 16749 ULA \* 16759 W759 □

CHAR O BCA 000000 ERROR ADDR

□ 16754 SET B 0001 □

□ 16759 LOD 8 0000 □

□ 16764 UNL 7 2892 □

O--X ERROR CONTENTS



16994 NOP A 17004 X004  
16999 TR 1 17014 X014  
17004 SUB P 02 2732 27L2  
17009 TRZ N 02 15979 V9P9

SEQ CHK SWITCH = @ZCO@

REDUCE 2 CTR BY 1  
RETURN TO - TO & RECOMPLEMEN

LOD CHAR @ BCA  
SET CHAR Z BCA  
INCREASE BY 000001

□	17029	SET	B	0007	□
□	17034	LOD	8	3527	□
□	17039	UNL	7	2901	□
□	17044	SET	B	0002	□
□	17049	UNL	7	2891	□

## CHAR Z ALL BIT CHECK

	17054	RCV	U	0000	
□	17059	TZB	•	01	17069 X0W9-■■■■■
□	17064	TR	1	08	17074 X074-■■■■■
□	17069	UNL	7	02	2901 2R01-■■■■■
□	17074	TZB	•	09	17084 X0Q4-■■■■■
□	17079	UNL	7	03	2900 2R 0 □ I
□	17084	TZB	•	09	17094 X0I4-■■■■■
□	17089	UNL	7	04	2899 2QZ9 □ I
□	17094	TZB	•	08	17104 X/04-■■■■■
□	17099	TR	1	05	17109 X109-■■■■■
□	17104	UNL	7	08	2898 2Q98-■■■■■
□	17109	TZB	•	05	17119 X//9-■■■■■
□	17114	TR	1	08	17124 X124-■■■■■
□	17119	UNL	7	06	2897 2Q97-■■■■■
□	17124	TZB	•	09	17134 X/L4-■■■■■
□	17129	UNL	7	07	2896 2QZ6 □ I
□	17134	TZB	•	09	17149 X/D9-■■■■■
□	17139	UNL	7	09	2895 2QZ5 □ I
□	17144	TR	1	09	17169 X169-■■■■■

## CHAR Z BIT CHECK ADDRESS

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Page

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第26章 Data

• 87 •

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• 100 •

17149	SET	B	0007	•	•	•	•	•	•
17154	LOD	8	2901	□	I				
17159	CMP	4	3527	□	I				
17164	TRE	L	16334	W334	-	-	-	-	-

**TEST FOR  
NO ERROR**

17169	RCV	U	2889	*	*	*	*
17174	TMT	9 08	9223	9K23			
17179	LDA	#	17054	X054			
17184	UNL	7	2886				
17189	ULA	*	17199	X199			
17194	SET	B	0001				
17199	LOD	8	0000				
17204	UNL	7	2892				

Z=x SB CHAR

CHAR Z BCA  
000000

JM83  
JM84  
JM85.....scans/g004729.png

17224 TAA I 01 17249 X2U9	BYPASS T-O IF 0911 ON
17229 SEL 2 0500	000000 X--X -----
17234 WR R 2881	
17239 TMC O 11 17244 XKD4	
17244 TRC O 12 17249 XB49	
17249 TAE I 05 17284 XSY4	BYPASS TABULATION IF 0915 ON
17254 RCV U 5706	
17259 TSL 1 01 5424 54S4	CK24
17264 REV U 7686	
17269 TSL 1 01 5714 57/4	CM26
17274 RCV U 17716 X716	SET SEGTAB RETURN
17279 TSL 1 01 17289 X2Y9	
17284 TR 1 16544 W544	JG83 VARIABLE RETRACE
	SEGMENT TABULATION

JN08  
JN14  
JN21  
JN24  
JN57  
JN65  
JN70  
JN72  
JN78  
JN96.....

17289 RCV U 8280	TEST MAR 4
17294 TZB 01 17329 X3S9	TEST MAR 8
17299 RCV U 8281	10 S SEGMENT C
17304 TZB 01 17319 X3/9	11 S SEGMENT D
17309 LOD 8 04 9097 9 97	SD START ADDR
17314 TR 1 17354 X354	SC START ADDR
17319 LOD 8 04 9093 9 93	
17324 TR 1 17354 X354	
17329 RCV U 8281	TEST MAR 8
17334 TZB 01 17349 X3U9	00 S SEGMENT A
17339 LOD 8 04 9089 9 89	01 S SEGMENT B
17344 TR 1 17354 X354	SB START ADDR
17349 LOD 8 04 9085 9 85	SA START ADDR
17354 UNL 7 04 17689 XW89	SET VTCL INITIAL START POSITION
17359 REV U 8269	TEST MAR 5
17364 TZB 01 17384 X3Y4	Z SEGMENT B UP
	000013
	INCREASE VTCL TO ZB START POS

NEXT PAGE

g ns/g0014573.phd  
 JP86.....  
 □ 17384 SGN T 17710 X710 □  
 □ 17389 RAD H 15 2731 2GC1 □  
 □  
 □ 17394 RCV U 2895 □  
 □ 17399 TZB • 05 17409 XU 9 □  
 □ 17404 ADD G 15 2732 2GC2 □  
 □ 17409 RCV U 2896 ••••• □  
 □ 17414 TZB • 05 17424 XUS4 □  
 □ 17419 ADD G 15 2732 2GC2 □  
 □ 17424 REV U 2897 ••••• □  
 □ 17429 TZB • 05 17439 XUT9 □  
 □ 17434 ADD G 15 2732 2GC2 □  
 □ 17439 RCV U 2898 ••••• □  
 □ 17444 TZB • 05 17454 XUV4 □  
 □ 17449 ADD G 15 2732 2GC2 □  
 □ 17454 RCV U 2899 ••••• □  
 □ 17459 TZB • 05 17469 XUW9 □  
 □ 17464 ADD G 15 2732 2GC2 □  
 □ 17469 RCV U 2900 ••••• □  
 □ 17474 TZB • 05 17484 XUY4 □  
 □ 17479 ADD G 15 2732 2GC2 □  
 □ 17484 RCV U 2901 ••••• □  
 □ 17489 TZB • 05 17499 XUZ9 □  
 □ 17494 ADD G 15 2732 2GC2 □  
 □  
 □  
 □ 17499 TRZ N 15 17524 XEB4 □  
 □ 17504 ST F 15 8290 8B10 □  
 □  
 □ 17509 SET B 13 0006 06 6 □  
 □ 17514 LOD 8 13 2934 2IT4 □  
 □ 17519 TR 1 17679 X679 □ JS88

JQ88.....  
 □ 17524 SET B 13 0006 06 6 □  
 □ 17529 LOD 8 13 2940 2I00 □  
 □ 17534 TR 1 17549 X549 □ JR88

NEXT PAGE

PAGE 87 OF 96  
 SEGTAB MULTIPLE D OR P COUNT  
 SET TWO-PASS SWITCH  
 0 INTO ASU 15  
 TEST C BIT POSITION  
 TEST FOR NO A BIT - D FOR DROP  
 ADD 1 TO ASU ASU 15  
 TEST B BIT POSITION  
 TEST A BIT POSITION  
 TEST 8 BIT POSITION  
 TEST 4 BIT POSITION  
 TEST 2 BIT POSITION  
 TEST 1 BIT POSITION

BYPASS DROP TAB IF ASU 15 ZERO  
 STORE ADDER COUNT

000006 SET ADDR FOR DROP

000012 SET ADDR FOR PICK

000006 SET INCREMT FOR PICK

JR87 gscans/g004 17549 SGN T 17710 X710  
 17554 ADM 6 17710 X710  
 17559 RAD H 15 2731 2GC1  
 17564 RCV U 2895  
 17569 TZB • 02 17579 X5P9--  
 17574 ADD G 15 2732 2GC2 I  
 17579 RCV U 2896 ••••• I  
 17584 TZB • 02 17594 X5R4--  
 17589 ADD G 15 2732 2GC2 I  
 17594 RCV U 2897 ••••• I  
 17599 TZB • 02 17609 X6-9--  
 17604 ADD G 15 2732 2GC2 I  
 17609 RCV U 2898 ••••• I  
 17614 TZB • 02 17624 X6K4--  
 17619 ADD G 15 2732 2GC2 I  
 17624 RCV U 2899 ••••• I  
 17629 TZB • 02 17639 X6L9--  
 17634 ADD G 15 2732 2GC2 I  
 17639 RCV U 2900 ••••• I  
 17644 TZB • 02 17654 X6N4--  
 17649 ADD G 15 2732 2GC2 I  
 17654 RCV U 2901 ••••• I  
 17659 TZB • 02 17669 X6O9--  
 17664 ADD G 15 2732 2GC2 I  
 17669 TRZ N 15 17719 XGA9--  
 17674 ST F 15 8290 8B10

JS87 17679 AAM @ 13 17689 XFY9  
 17684 SET B 13 0005 0& 5  
 17689 LOD 8 13 0000 0& 0  
 17694 ADD G 13 8290 8BZ0  
 17699 LOD 8 04 17689 XW89  
 17704 UNL 7 04 17709 XX09  
 17709 UNL 7 13 0000 0& 0  
 17714 NOP A 17539 X539-- JQ87 S TWO-PASS SWITCH  
 17719 TR 1 1354----- Q08 VARIABLE RETRACE TRANSFER

RESET TWO-PASS SWITCH

0 INTO ASU 15

TEST C BIT POSITION

TEST FOR NO 2 BIT - P FOR PICK  
ADD 1 TO ASU 15

TEST B BIT POSITION

TEST A BIT POSITION

TEST 8 BIT POSITION

TEST 4 BIT POSITION

TEST 2 BIT POSITION

TEST 1 BIT POSITION

BYPASS PICK TAB IF ASU 15 ZERO

STORE ADDER COUNT

ADD TAB INCREMENT TO VAR LODER

VARIABLE TAB COUNT LODER

INCREASE COUNT

LOD VTCL  
SET REPLACER

REPLACE COUNT IN TABLE

SECTIONS 14 AND 15-  
HALF SELECT CORE BEAT-S14 AB6  
-S15 NBE

JT05	JT81	JT95	20004	SET	B	0001	
			20009	LOD	8	2732	
			20014	UNL	7	20220	-220
			20019	UNL	7	20300	-300
			20024	UNL	7	20505	-505
			20029	UNL	7	20730	-730
			20034	UNL	7	21165	J165
			20039	UNL	7	21480	J480
			20044	TR	1	20079	-079

RESET ALL S-15 SWITCHES  
A

SET ALL S-15 SWITCHES

□	20079	LDA	*	2799	•	•	•	□
□	20084	ULA	*	20104	-104	□		
□	20089	ULA	*	20219	-219	□		
□	20094	ULA	*	20249	-249	□		
□	20099	ULA	*	20264	-264	□		

SET UPPER 80K ADDRESSES  
080004

■	20104	RCV	U	0000	□	
■	20109	BLM	S	16000	WOOD	□
■	20114	RCV	U	9399	□	
■	20119	BLM	S	0004	□	

AT 80004

20124	SB	8	05	9395	9TZ5
20129	SB	8	05	9396	9TZ6
20134	SB	8	05	9397	9TZ7
20139	SB	8	05	9398	9TZ8
20144	SB	8	05	9399	9TZ9

**CREATE 5 NO BITS**

20149 SET B 0005  
20154 EOD 8 2858  
20159 UNL 7 9414

**CREATE 5 ALL BITS**

□	20164	SBR	%	08	9410	9M10	□
□	20169	SBR	%	08	9411	9M11	□
□	20174	SBR	%	08	9412	9M12	□
□	20179	SBR	%	08	9413	9M13	□
□	20184	SBR	%	08	9414	9M14	□

## 5 GROUP MARKS INTO WORK AREA

□	20189	SET	B	0001	□
□	20194	RCV	U	9404	□
□	20199	SND	/	9399	□
□	20204	RCV	U	9409	□
□	20209	SND	/	9414	□

SET GROUP 2 TO GROUP 1  
SET GROUP 3 TO GROUP 4

NEXT PAGE

gscans/g001420214 SET B 0001  
 □ 20219 RCV U 0000  
 □  
 □ 20224 NOP A 20239 -239---  
 □  
 □ 20229 SND / 9399  
 □ 20234 TR 1 20244 -244---  
 □ 20239 SND / 9414.....  
 □  
 □  
 □ 20244 SET B 0199.....  
 □ 20249 SND / 0000  
 □  
 □  
 □ 20254 RAD H 02 2761 2701  
 □ 20259 SET B 0200  
 • 20264 SND / 0000  
 □  
 I □ 20269 SUB P 02 2732 27L2  
 I □ 20274 TRZ N 02 20284 -2Q4---  
 +--- 20279 TR 1 20264 -264  
 □  
 □  
 □ 20284 LDA # 28474 Q474---  
 □ 20289 ULA \* 20299 -299  
 □  
 JV95 .....  
 □ 20294 SET B 03 0006 00&6  
 □ 20299 LOD 8 03 0000 00&0  
 □  
 I  
 □ 20304 NOP A 20319 -319---  
 □  
 I  
 □ 20309 ULA \* 03 20349 -3D9  
 □ 20314 TR 1 20334 -334---  
 □  
 □ 20319 SUB P 03 2736 27C6  
 □ 20324 ULA \* 03 20384 -3H4  
 □ 20329 TR 1 20374 -374---  
 □  
 □  
 □ 20334 RAD H 02 39995 I9R5---  
 □ 20339 SET B 0010  
 □ 20344 LOD 8 9414  
 . 20349 UNL 7 0000  
 I □ 20354 NOP A 0000  
 □  
 I □ 20359 SUB P 02 2732 27L2  
 I □ 20364 TRZ N 02 20409 -4-9---  
 +--- 20369 TR 1 20349 -349  
 □  
 I  
 □ 20374 RAD H 02 39995 I9R5---  
 □ 20379 SET B 0002  
 □  
 . 20384 RCV U 0000  
 I □ 20389 SND / 9399  
 □  
 I □ 20394 SUB P 02 2732 27L2  
 I □ 20399 TRZ N 02 20409 -4-9---  
 +--- 20404 TR 1 20384 -384  
 □

SET OR RESET ALL UPPER 80K

AT 80004

S-15 SWITCH

5 NO BITS

5 ALL BITS

AT 80009- 995 CHARS-FROM 80004

79

AT 81004- 1000 CHARS PER

80K MEM FILL COMPLETE

INITIAL TBA LINE TABLE ADDR  
SET TBA TABLE LOADER

TBA TABLE LOADER

S-15 SWITCH

SET TBA ALL BIT UNLOADER

REDUCE NO BIT RCV ADDR BY 5  
SET TBA NO BIT RECEIVER

S-14 TBA ALL BIT BEAT AREA

SET BEAT CTR

10 ALL BIT CHARS

TBA BEAT UNLOADER  
POSSIBLE ALL BIT SENDER

REDUCE BEAT CTR BY 1

S-15 TBA NO BIT BEAT AREA

SET BEAT CTR

TBA BEAT RECEIVER ADDR  
10 NO BITS SENDER

REDUCE BEAT CTR BY 1

Y LINE INTERROG - X DIRECTION

LOD TBA TABLE LOADER

SET V TBA CCA

SET X BASE TAB ADDR LOADER

000010

INCR TO X BASE 64 TABLE POSIT

X BASE 64 TAB ADDR LOADER  
SET Y INTERROG ADDR

LOD CURRENT YIA

VARIABLE TBA CONTENTS CMP ADD  
BYPASS Y INTERROG - IF EQUALREDUCE YIA BY 9  
RE-RESET YIA

SET POST-INTERROG RETURN

GO TO Y INCREMENTS

RESET BIT BREAKDOWN

X AND Y INTERROGATION ADDR

KA92 S-15 SWITCH

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KC92 DEFINITE ERROR

gsns/g0014575.png

JW90.....  
 20409 LDA # 20299 -299 □  
 □ 20414 ULA \* 20454 -454 □  
 □ 20419 ULA \* 20439 -439 □  
 □ 20424 LDA # 8304 □  
 □ 20429 AAM @ 20439 -439 □  
 □  
 □ 20434 SET B 0006 □  
 □ 20439 LOD 8 0000 □  
 □ 20444 ULA \* 20504 -504 □  
 □  
 I

JX93.....  
 20449 LDA # 03 20504 -5&4 □  
 □ 20454 CMP 4 03 0000 0060 □  
 □ 20459 TRE L 20799 -799 -----KE93  
 □  
 □ 20464 SUB P 03 2740 27D0 □  
 □ 20469 ULA \* 03 20504 -5&4 □  
 □  
 I

JY92.....  
 20484 TR 1 20799 -799 -----KE93  
 □  
 I

JZ92  
 JZ94.....  
 20489 SET B 0007.....  
 □ 20494 LOD 8 3527 □  
 □ 20499 UNL 7 2901 □  
 □  
 □ 20504 RCV U 0000 □  
 □  
 I

20509 NOP A 20589 -589 -----KA92  
 □  
 I

20514 TZB • 01 20524 -5S4 -----  
 □ 20519 UNL 7 09 2901 2R 1 □ I  
 □ 20524 TZB • 02 20534 -5L4 -----  
 □ 20529 UNL 7 09 2900 2R 0 □ I  
 □ 20534 TZB • 03 20544 -5D4 -----  
 □ 20539 UNL 7 09 2899 2QZ9 □ I  
 □ 20544 TZB • 04 20554 -V54 -----  
 □ 20549 UNL 7 09 2898 2QZ8 □ I  
 □ 20554 TZB • 05 20564 -VW4 -----  
 □ 20559 UNL 7 09 2897 2QZ7 □ I  
 □ 20564 TZB • 06 20574 -VP4 -----  
 □ 20569 UNL 7 09 2896 2QZ6 □ I  
 □ 20574 TZB • 07 20699 -WI9 -----KB92  
 □ 20579 UNL 7 09 2895 2QZ5 □  
 □ 20584 TR 1 20719 -719 -----KC92  
 □  
 I

KA91 gscans/g001	20589	TZB	•	01	20599	-529-■-■
20594	TR	1			20604	-604-■-■
20599	UNL	7	08		2901	2R01-■-■
20604	TZB	•	02		20614	-6J4-■-■
20609	TR	1			20619	-619-■-■
20614	UNL	7	08		2900	2R00-■-■
20619	TZB	•	03		20629	-6B9-■-■
20624	TR	1			20634	-634-■-■
20629	UNL	7	08		2899	2Q99-■-■
20634	TZB	•	04		20644	-W44-■-■
20639	TR	1			20649	-649-■-■
20644	UNL	7	08		2898	2Q98-■-■
20649	TZB	•	05		20659	-WV9-■-■
20654	TR	1			20664	-664-■-■
20659	UNL	7	08		2897	2Q97-■-■
20664	TZB	•	06		20674	-WP4-■-■
20669	TR	1			20679	-679-■-■
20674	UNL	7	08		2896	2Q96-■-■
20679	TZB	•	07		20689	-WH9-■-■
20684	TR	1			20699	-699-■-■
20689	UNL	7	08		2895	2Q95-■-■
20694	TR	1			20719	-719-■-■

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DEFINITE ERROR

K891.....  
□ 20699 SET B 0007.....  
□ 20704 LOD 8 2901 □ I  
□ 20709 CMP 4 3527 □ I  
□ 20714 TRE L 20764 -764- □ I  
K691 20710 LDA # 20501 501 □ I

LOD BIT BREAKDOWN  
TEST FOR -----  
NO ERROR

KC91..... 20719 LDA # 20504 -504 ..  
□ 20724 UNL 7 2886 □  
□ 20729 SET B 0004 □  
□□□□□□□□□□□□□□□□□□□□□□□□□□

LOD CURRENT X OR Y IA  
INTO T-O

□	20734	NOP A	20749	-749-	■	▼
□	20739	LOD 8	9197		□	■
□	20744	TR 1	20754	-754-	■	▼
□	20749	LOD 8	9193	••••••••	■	■
□	20754	UNL 7	2892	••••••••	■	■
□	20759	TR 1	21404	J404-	■	

S-15 SWITCH

KD96 ••••• ■ 20764 RCV U 20504 -504 •■•••  
□ 20769 TZB • 04 20784 -X84-■-▼  
□ 20774 TZB • 01 20784 -7Y4-■-▼  
□ 20779 TR 1 20794 -794-■-▼  
□ □ II  
□ □ III  
□ 20784 AAM @ 01 20504 -5 4 •■• I I  
□ 20789 TR 1 20489 -489-■-▼  
□ □ I  
□ 20794 TR 1 20484 -484-■-▼

UNITS POSITION OF X OR Y IA

GO TO TEST FOR END - IF 9

INCREASE X OR Y IA BY 0001

X OR Y POST-10 CHAR-INTRG E

TEST FOR END OF Y INTGT-151119

CURRENT YIA  
PLACE IN REFERENCE AREA

HUNDRED THOUSANDS ORDER  
TEST FOR NO 1 BIT  
TEN THOUSANDS ORDER  
TEST FOR NO 4 BIT  
NO 1 BIT  
THOUSANDS ORDER  
TEST FOR NO 1 BIT  
HUNDREDS ORDER  
TEST FOR NO 1 BIT  
TENS ORDER  
TEST FOR NO 1 BIT  
FINAL Y ADDR-GO TO X INTERROG

Y INTERROG- X SCALE INCREMENTS  
CHK FOR ----19

```
TENS ORDER  
TEST FOR NO 1 BIT  
CHK FOR ----1--  
HUNDREDS ORDER  
TEST FOR NO 1 BIT  
CHK FOR --1---  
THOUSANDS ORDER  
TEST FOR NO 1 BIT
```

008890

000890

000090

000010  
INCREASE Y INTERROG ADDR

X LINE INTERROG- Y DIRECTION

PICKUP TBA TABLE LOADER  
SET VAR TBA CONTS CMP ADDR  
PLACE IN Y BASE TAB ADDR LODER  
000020  
INCREASE TO Y BASE 0 TABLE POSS

Y BASE TAB ADDR LOADER  
SET X INTERROG ADDR

LOD CURRENT XIA  
VARIABLE TBA CONTENTS CMP ADDR  
BYPASS X INTERROG - IF EQUAL

REDUCE YIA BY 9  
RE-RESET XIA

NEXT PAGE

gscans/g00  
 4721009 RCV U 20791 -791  
 21014 TSL 1 01 20489 -4Y9 -----JZ91  
 21019 TR 1 21024 J024 -----  
 21024 LDA # 20504 -504  
 21029 UNL 7 28480 Q480  
 21034 RCV U 28477 Q477  
 21039 TZB • 04 21094 J 94 -----  
 21044 TZB • 02 21054 J0N4 -----I  
 21049 TR 1 21094 J094 -----Y  
 21054 RCV U 28478 Q478 -----I  
 21059 TZB • 04 21094 J 94 -----Y  
 21064 TZB • 02 21074 J0P4 -----I  
 21069 TR 1 21094 J094 -----Y  
 21074 RCV U 28479 Q479 -----I  
 21079 TZB • 04 21094 J 94 -----Y  
 21084 TZB • 02 21169 J109 -----+  
 21089 TR 1 21094 J094 -----Y  
  
 21094 RCV U 20503 -503 -----I  
 21099 TZB • 04 21154 J/54 -----  
 21104 TZB • 02 21114 J1J4 -----I  
 21109 TR 1 21154 J154 -----Y  
 21114 RCV U 20502 -502 -----I  
 21119 TZB • 04 21144 J/44 -----  
 21124 TZB • 02 21134 J1L4 -----I  
 21129 TR 1 21144 J144 -----Y  
 21134 LDA # 3209 -----I  
 21139 TR 1 21159 J159 -----  
 21144 LDA # 3199 -----I  
 21149 TR 1 21159 J159 -----Y  
 21154 LDA # 8309 -----I  
 21159 AAM @ 20504 -504 -----I  
 21164 TR 1 20984 -984 -----KF93  
  
 21169 NOP A 21209 J209 -----  
  
 21174 LDA # 20349 -349 -----I  
 21179 SUB P 2736 -----I  
 21184 ULA \* 21194 J194 -----I  
 21189 SET B 0002 -----I  
 21194 RCV U 0000 -----I  
 21199 SND / 9399 -----I  
 21204 TR 1 21239 J239 -----KH95  
  
 21209 LDA # 20384 -384 -----I  
 21214 ULA \* 21224 J224 -----I  
 21219 SET B 0002 -----I  
 21224 RCV U 0000 -----I  
 21229 SND / 9409 -----I  
 21234 TR 1 21259 J259 -----KJ95

SET POST INTERROG RETURN

GO TO X INCREMENTS

TEST FOR END OF X INTGT --888

CURRENT XIA  
PLACE IN REFERENCE AREATHOUSANDS ORDER  
TEST FOR NO 8 BIT  
NO 2 BITHUNDREDS ORDER  
TEST FOR NO 8 BIT  
NO 2 BITTENS ORDER  
TEST FOR NO 8 BIT  
FINAL X ADDR - GO TO TBA INCRE

X INTERROG- Y SCALE INCREMENTS

TENS ORDER  
TEST FOR NO 8 BIT  
NO 2 BITHUNDREDS ORDER  
TEST FOR NO 8 BIT  
NO 2 BIT

001120

000120

000020  
INCREASE X INTERROGATION ADDR

S-15 SWITCH

REDUCE BY 5

RESET LAST S-14 BEAT ADDR  
SEND 10 NO BITSRESET LAST S-15 BEAT ADDR  
SEND 10 ALL BITS

TBA END AND INCREMENT AREA

LOD TBA BEAT UNLOADER  
TEST FOR 159999  
S-14 COMPLETE - IF EQUAL ?

LOD TBA BEAT RECEIVER  
ADD 5  
TEST FOR 159999  
S-15 COMPLETE - IF EQUAL

000035  
INCREASE TBA TABLE LOADER

SECTION 14 COMPLETE

PRINT TAB RESULTS IF 0916 ON  
REPEAT SECTION 14 IF 0912 ON  
GO TO SECTION 15

SECTION 15 COMPLETE

PRINT TAB RESULTS IF 0916 ON  
REPEAT SECTION 15 IF 0912 ON  
GO TO SECTION 16

DEMAND EXTENDED T-O IF 0916 ON

000000 .XX. -----

KL96..... 21424 TMC O 11 21429 JMB9-----  
21429 TRC O 12 21434 JD34-----  
21434 TAE I 05 21469 JUW9-----  
-----

BYPASS TABULATION IF 0915 ON

NEXT PAGE

gscans/g001472444 RCV U 5706 54S4 CK24  
 KM95..... 21444 TSL 1 01 5424 57/4 CM26  
 21449 RCV U 7686 5714 57/4 JN86  
 21454 TSL 1 01 17716 X716 21464 TSL 1 01 17289 X2Y9  
 21459 RCV U 20504 -504 21469 LDA # 21474 ULA \* 21479 J479  
 21479 RCV U 0000 21484 NOP A 21499 J499  
 21489 TMT 9 11 9399 9LI9 21494 TR 1 21504 J504  
 21499 TMT 9 11 9414 9MA4 21504 TR 1 20764 -764 KD92

SET BIT TAB RETURN  
GO TO BP DROP OR PICK

SET MARTAB RETURN  
GO TO MARTAB

SET SEGTAB RETURN

LOD X AND Y INTERROG ADDR  
SET ERROR CHAR RESET ADDR

ERROR CHARACTER RESET ADDR

S-15 SWITCH

RESET CHAR TO NO BITS

RESET CHAR TO ALL BITS

ERROR T-O EXTENSION SETUP  
000000 -XX- ----- CBA 000000

KN95..... 21509 SET B 15 0021 0&B1 21514 RCV U 21585 J585  
 21519 TMT 9 15 2881 2HH1 21524 LDA # 20299 -299  
 21529 ULA \* 21549 J549 21534 SUB P 2739  
 21539 ULA \* 21564 J564 21544 SET B 0006  
 21549 LOD 8 0000 21554 UNL 7 21618 J618  
 21559 SET B 0007 21564 LOD 8 0000  
 21569 UNL 7 21630 J630 21574 SEL 2 0500  
 21579 WR R 21585 J585 21584 TR 1 21424 J424 KL95

SEND T-O FORMAT TO EXTEND AREA

SET CBA LOADER ADDR  
REDUCE TBA LOADER BY 8  
SET XY LINE LOADER ADDR

CURRENT BEAT ADDRESS  
INTO T-O CBA 000000

XY COINCIDENCE LINES  
INTO T-O XY 000

TYPE ERROR FORMAT & EXTENSION

S-14 & 15 ERROR T-O EXTENSION

2 021 21605	000000 -XX- -----
2 003 21608	CBA 000000
2 010 21618	XY 000 000
2 002 21620	
2 010 21630	
2 001 21631	

BKWD TR LOCATION OPN ASU ADDRESS

FWD TR

PAGE 01 OF 13

8MU98

g0014578.png

8MU98A--PART 2 CONTINUATION  
SECTION 16 -  
ALL CHAR NON-REDUND DISCRIMINT

080004  
SET STARTING ADDRESSES

AT 80004

50 INTO 50 TIMES ROTATION CTR

SET INITIAL ROTATION FIELD

FILL 1250 POSITIONS

AT 80004  
SND 50 CHARS-FROM ROTATION FLD

SND 1200 CHARS - FROM 80004

FILL REMAINING 80 K

63

AT 81250-1250 CHARS-FROM 80004

50 CHAR CMP AREA

SET INITIAL 50 CACA TO 80049

LOD ROTATING CONSTANT FIELD

50 CHAR ASCENDING CMP ADDR

ERROR-SOMEWHERE IN 50 CHAR FLD  
0901 REDUNDANCY ERROR-SOMEWHER

LOD 50 CACA  
TEST FOR 159999

000050  
INCREASE CACA

REDUCE 50 POSITION CTR BY 1  
SECTION COMPLETE- IF ZERO

NEXT PAGE



gtrans/g001459.22039 LDA # 02 22014 K0J4 □  
 I □ 22044 CMP 4 02 9315 93J5 □  
 I □ 22049 TRE L 21799 J799 -----H01  
 I □  
 I □ 22054 AAM @ 01 22014 K0/4 □  
 I □ 22059 AAM @ 01 22024 K0S4 □  
 I □ 22064 TR 1 22004 K004 -----L02  
 I □  
 I □  
 I □ 22069 UNL 7 07 2901 2Z&1 □  
 I □ 22074 UNL 7 02 2892 28R2 □  
 I □ 22079 SET B 02 0002 00-2 □  
 I □ 22084 LOD 8 02 3527 35K7 □  
 I □ 22089 UNL 7 02 2891 28R1 □  
 I □ 22094 TMC 0 11 22099 K-I9 -----  
 I □ 22099 LDA # 02 22024 K0K4 .••I  
 I □ 22104 ULA \* 02 22114 K1J4 □  
 I □  
 I □ 22109 SET B 02 0001 00-1 □  
 I □ 22114 LOD 8 02 0000 00-0 □  
 I □ 22119 UNL 7 02 2889 28Q9 □  
 I □  
 I □  
 I □ 22124 LDA # 02 22014 K0J4 □  
 I □ 22129 UNL 7 02 2886 28Q6 □  
 I □ 22134 TR 1 22204 K204 -----Q04  
 I □  
 I □  
 I □ 22139 TAA I 01 22164 K1W4 -----  
 I □ 22144 SEL 2 0500 □ I  
 I □ 22149 WR R 2881 □ I  
 I □  
 I □ 22154 TMC 0 11 22159 KJE9 -----  
 I □ 22159 TRC 0 12 22164 KA64 .••Y  
 I □  
 I □ 22164 TAE I 05 22199 K/Z9 .••I  
 I □  
 I □  
 I □ 22169 RCV U 5706 □ I  
 I □ 22174 TSL 1 01 5424 54S4 -----C01  
 I □  
 I □ 22179 RCV U 7686 □ I  
 I □ 22184 TSL 1 01 5714 57/4 -----D01  
 I □  
 I □ 22189 RCV U 17716 X716 □ I  
 I □ 22194 TSL 1 01 17289 X2Y9 -----E01  
 I □  
 I □ 22199 TR 1 22039 K039 .••I  
 I □

LOD SGL CHAR LODER  
 TEST FOR CURRENT CACA  
 SGL CHAR CHK CMPLT-THIS BLOCK  
 INCR SGL CHAR LODER BY 000001  
 INCR SGL CHAR CMP BY 000001

CHARACTER DETERMINATION AREA  
 RESET BIT BREAKDOWN -----  
 PLACE ERRONEOUS CHAR IN T-0  
 --  
 X--X

LOD SGL CHAR CMP ADDR  
 SET VSBCL

VARIABLE SHOULD BE CHAR LODER  
 PLACE SB CHAR IN T-0

LOD SGL CHAR LODER ADDR  
 PLACE ERROR ADDR IN T-0  
 GO TO CHAR DETERMT FOR BIT BRK

000000 X--X -----

. BYPASS TABULATION IF 0915 ON

SET BIT TAB RETURN

SET MARTAB RETURN

SET SEGTAB RETURN

## CHAR DETERMT & BIT BREAKDOWN

LOD SHOULD BE CHAR

X---	TEST	SB	CHAR
TEST FOR	NO B	BIT	
TEST FOR	NO A	BIT	-1-----
-1----			

TEST FOR NO A BIT -----  
--1--

GO TO T-0

NOT BA ZONED CHARS

--X TEST IS CHAR

-P — — —

—P—

TEST FOR 1

## NED CHARS

TEST IS CHAR

#### A NOT B ZONED CHARGE

--x TEST IS CHAR

— P —

NEXT PAGE

I  
 gsons/g0014580 . 22429 CMP 4 02 9266 9206 □  
 □ 22434 TRE L 22964 K964-■-----W07  
 □ 22439 CMP 4 02 9292 92R2 □  
 □ 22444 TRE L 23044 L044-■-----Y07  
 □ 22449 CMP 4 02 9293 92R3 □  
 □ 22454 TRE L 23139 L139-■-----AB07  
 □ 22459 CMP 4 02 9294 92R4 □  
 □ 22464 TRE L 23209 L209-■-----AC08  
 □ 22469 CMP 4 02 9295 92R5 □  
 □ 22474 TRE L 23304 L304-■-----AF08  
 □ 22479 CMP 4 02 9296 92R6 □  
 □ 22484 TRE L 23389 L389-■-----AH08  
 □□□□□□□□□ I □□□□□□□□□

TEST FOR /  
 S  
 T  
 U  
 V  
 W

I  
 □ 22489 CMP 4 02 9297 92R7 □  
 □ 22494 TRE L 23459 L459-■-----AJ09  
 □ 22499 CMP 4 02 9298 92R8 □  
 □ 22504 TRE L 23549 L549-■-----AL09  
 □ 22509 CMP 4 02 9299 92R9 □  
 □ 22514 TRE L 23644 L644-■-----AP09  
 □ 22519 CMP 4 02 9291 92R1 □  
 □ 22524 TRE L 23729 L729-■-----AS10  
 □ 22529 CMP 4 02 9267 9207 □  
 □ 22534 TRE L 23799 L799-■-----AT10  
 □ 22539 CMP 4 02 9268 9208 □  
 □ 22544 TRE L 23904 L904-■-----AW11  
 □ 22549 TR 1 22244 K244-■-----R04  
 □□□□□□□□□ I □□□□□□□□□

X  
 Y  
 Z  
 RECORD MARK  
 , COMMA  
 % PERCENT

I  
 □ 22554 RCV U 2892 □  
 □ 22559 TZB • 06 22569 KV09-■-----  
 □ 22564 TR 1 22574 K574-■-----  
 □ 22569 UNL 7 08 2896 2Q96 •■■ I I  
 □ 22574 TZB • 05 22584 KVY4-■■■ I I  
 □ 22579 UNL 7 09 2897 2QZ7 □ I  
 □□□□□□□□□ I □□□□□□□□□

B NOT A ZONED CHARS

--X TEST IS CHAR  
 -D-----  
 --P----

I  
 □ 22584 CMP 4 02 9265 9205 •■■ I  
 □ 22589 TRE L 22904 K904-■-----V06  
 □ 22594 CMP 4 02 9282 92Q2 □  
 □ 22599 TRE L 22964 K964-■-----W07  
 □ 22604 CMP 4 02 9283 92Q3 □  
 □ 22609 TRE L 23044 L044-■-----Y07  
 □ 22614 CMP 4 02 9284 92Q4 □  
 □ 22619 TRE L 23139 L139-■-----AB07  
 □ 22624 CMP 4 02 9285 92Q5 □  
 □ 22629 TRE L 23209 L209-■-----AC08  
 □ 22634 CMP 4 02 9286 92Q6 □  
 □ 22639 TRE L 23304 L304-■-----AF08  
 □□□□□□□□□ I □□□□□□□□□

TEST FOR - HYPHEN  
 J  
 K  
 L  
 M  
 N

I  
 □ 22644 CMP 4 02 9287 92Q7 □  
 □ 22649 TRE L 23389 L389-■-----AH08  
 □ 22654 CMP 4 02 9288 92Q8 □  
 □ 22659 TRE L 23459 L459-■-----AJ09  
 □ 22664 CMP 4 02 9289 92Q9 □  
 □ 22669 TRE L 23549 L549-■-----AL09  
 □ 22674 CMP 4 02 9290 92R0 □  
 □ 22679 TRE L 23644 L644-■-----AP09  
 □ 22684 CMP 4 02 9281 92Q1 □  
 □ 22689 TRE L 23729 L729-■-----AS10  
 □ 22694 CMP 4 02 9263 9203 □  
 □ 22699 TRE L 23799 L799-■-----AT10  
 □ 22704 CMP 4 02 9264 9204 □  
 □ 22709 TRE L 23904 L904-■-----AW11  
 □ 22714 TR 1 22244 K244-■-----R04  
 □□□□□□□□□ I □□□□□□□□□

P  
 Q  
 R  
 - MINUS ZERO  
 \$ DOLLAR SIGN  
 \* ASTERISK

## BA ZONED CHARS

gscans/g001473219 RCV U 2892 □ ---X TEST IS CHAR  
 □ 22719 TZB • 06 22734 KXL4-■-■  
 □ 22724 TZB • 06 22739 K739-■-■  
 □ 22729 TR 1 22739 K739-■-■  
 □ 22734 UNL 7 08 2896 2Q96 ■• I  
 □ 22739 TZB • 05 22749 KXU9-■-■  
 □ 22744 TR 1 22754 K754-■-■  
 □ 22749 UNL 7 08 2897 2Q97 ■• I  
 □ 22754 CMP 4 02 9262 9202 ■• I  
 □ 22759 TRE L 22889 K889-■-■  
 □ 22764 CMP 4 02 9272 92P2 □ I  
 □ 22769 TRE L 22979 K979-■-■ X07  
 □ 22774 CMP 4 02 9273 92P3 □ I  
 □ 22779 TRE L 23059 L059-■-■ Z07  
 □ 22784 CMP 4 02 9274 92P4 □ I  
 □ 22789 TRE L 23124 L124-■-■ AA07  
 □ 22794 CMP 4 02 9275 92P5 □ I  
 □ 22799 TRE L 23224 L224-■-■ AD08  
 □ 22804 CMP 4 02 9276 92P6 □ I  
 □ 22809 TRE L 23289 L289-■-■ AE08  
 □ 22814 CMP 4 02 9277 92P7 □ I  
 □ 22819 TRE L 23374 L374-■-■ AG08  
 □ 22824 CMP 4 02 9278 92P8 □ I  
 □ 22829 TRE L 23474 L474-■-■ AK09  
 □ 22834 CMP 4 02 9279 92P9 □ I  
 □ 22839 TRE L 23564 L564-■-■ AM09  
 □ 22844 CMP 4 02 9280 92Q0 □ I  
 □ 22849 TRE L 23629 L629-■-■ AN09  
 □ 22854 CMP 4 02 9271 92P1 □ I  
 □ 22859 TRE L 23714 L714-■-■ AR10  
 □ 22864 CMP 4 02 9260 9200 □ I  
 □ 22869 TRE L 23814 L814-■-■ AU10  
 □ 22874 CMP 4 02 9261 9201 □ I  
 □ 22879 TRE L 23889 L889-■-■ AV11  
 □ 22884 TR 1 22244 K244-■-■ R04  
 □ 22889 TZB • 07 22919 KZA9-■-■  
 □ 22894 UNL 7 09 2895 2QZ5 □ I  
 □ 22899 TR 1 22919 K919-■-■  
 □ 22904 TZB • 07 22914 KZA4-■-■  
 □ 22909 TR 1 22919 K919-■-■  
 □ 22914 UNL 7 08 2895 2Q95 ■• I  
 □ 22919 TZB • 01 22929 K9S9-■-■  
 □ 22924 UNL 7 09 2901 2R 1 □ I  
 □ 22929 TZB • 02 22939 K9L9-■-■  
 □ 22934 UNL 7 09 2900 2R 0 □ I  
 □ 22939 TZB • 03 22949 K9D9-■-■  
 □ 22944 UNL 7 09 2899 2QZ9 □ I  
 □ 22949 TZB • 04 22959 KZ59-■-■  
 □ 22954 UNL 7 09 2898 2QZ8 □ I  
 □ 22959 TR 1 22244 K244-■-■ R04

TEST FOR & AMPERSAND  
 A  
 B  
 C  
 D  
 E  
 F  
 G  
 H  
 I  
 & PLUS ZERO  
 • PERIOD  
 □ LOZENGE

ALL CHARS ----- BB  
 P-----  
 D-----  
 -----P  
 -----P-  
 -----P--  
 -----P---

ALL CHARS -----1

BB

g:/ns/g0014581.DAT

22964	TZB	07	22994	KZI4-----I
22969	UNL	7 09	2895	2QZ5 -----I
22974	TR	1	22994	K994-----Y
				-----I
22979	TZB	07	22989	KZH9-----I
22984	TR	1	22994	K994-----Y
22989	UNL	7 08	2895	2Q95-----I
				-----I
22994	TZB	01	23004	L0 4-----I
22999	TR	1	23009	L009-----I
23004	UNL	7 08	2901	2R01-----I
23009	TZB	02	23019	L0J9-----I
23014	UNL	7 09	2900	2R 0 -----I
23019	TZB	03	23029	L0B9-----I
23024	UNL	7 09	2899	2QZ9 -----I
23029	TZB	04	23039	L 39-----I
23034	UNL	7 09	2898	2QZ8 -----I
23039	TR	1	22244	K244-----R04

ALL CHARS -----1- BB

23044	TZB	07	23074	L G4-----I
23049	UNL	7 09	2895	2QZ5 -----I
23054	TR	1	23074	L074-----Y
				-----I
23059	TZB	07	23069	L F9-----I
23064	TR	1	23074	L074-----I
23069	UNL	7 08	2895	2Q95-----I
				-----I
23074	TZB	01	23084	L0Y4-----I
23079	UNL	7 09	2901	2R 1 -----I
23084	TZB	02	23094	L0R4-----I
23089	TR	1	23099	L099-----I
23094	UNL	7 08	2900	2R00-----I
23099	TZB	03	23109	L1&9-----I
23104	UNL	7 09	2899	2QZ9 -----I
23109	TZB	04	23119	L/19-----I
23114	UNL	7 09	2898	2QZ8 -----I
23119	TR	1	22244	K244-----R04

ALL CHARS -----11 BB

23124	TZB	07	23154	L/E4-----I
23129	UNL	7 09	2895	2QZ5 -----I
23134	TR	1	23154	L154-----Y
				-----I
23139	TZB	07	23149	L/D9-----I
23144	TR	1	23154	L154-----Y
23149	UNL	7 08	2895	2Q95-----I
				-----I
23154	TZB	01	23164	L1W4-----I
23159	TR	1	23169	L169-----I
23164	UNL	7 08	2901	2R01-----I
23169	TZB	02	23179	L1P9-----I
23174	TR	1	23184	L184-----I
23179	UNL	7 08	2900	2R00-----I
23184	TZB	03	23194	L1I4-----I
23189	UNL	7 09	2899	2QZ9 -----I
23194	TZB	04	23204	L0S4-----I
23199	UNL	7 09	2898	2QZ8 -----I
23204	TR	1	22244	K244-----R04

gscans/g0014720 long

□	23209	TZB	•	07	23239	LSC9	-■-■-	I
□	23214	UNL	7	09	2895	2QZ5	□	I
□	23219	TR	1		23239	L239	-■-■-	I
□							□	I
□	23224	TZB	•	07	23234	LSC4	-■-■-	I
□	23229	TR	1		23239	L239	-■-■-	I
□	23234	UNL	7	08	2895	2Q95	•●●	I
□	23239	TZB	•	01	23249	L2U9	-■-■-	I
□	23244	UNL	7	09	2901	2R 1	□	I
□	23249	TZB	•	02	23259	L2N9	-■-■-	I
□	23254	UNL	7	09	2900	2R 0	□	I
□	23259	TZB	•	03	23269	L2F9	-■-■-	I
□	23264	TR	1		23274	L274	-■-■-	I
□	23269	UNL	7	08	2899	2Q99	•●●	I
□	23274	TZB	•	04	23284	LS84	-■-■-	I
□	23279	UNL	7	09	2898	2QZ8	□	I
□	23284	TR	1		22244	K244	-■-■-	I

ALL CHARS -----1-- BB

P-----

D - - - -

P

— — — —

— — — P — — —

ALL CHARS -----1-1 BB

P-----

D — — — —

— D

- P -

- 8 -

ALL CHARS ----11-- BB

Ramanan

D. *Thermotaxis*

P

- 10 -

— P —

□	23289	TZB	•	07	23319	LTA9-■---	▀
□	23294	UNL	7	09	2895	2QZ5 □	I
□	23299	TR	1		23319	L319-■---	¥
□						□	I
□	23304	TZB	•	07	23314	LTA4-■---	I
□	23309	TR	1		23319	L319-■---	¥
□	23314	UNL	7	08	2895	2Q95-●●	I
□						I	I
□	23319	TZB	•	01	23329	L3S9-■■■	J
□	23324	TR	1		23334	L334-■---	▀
□	23329	UNL	7	08	2901	2R01-●●	I
□	23334	TZB	•	02	23344	L3M4-■■■	▀
□	23339	UNL	7	09	2900	2R 0 □	I
□	23344	TZB	•	03	23354	L3E4-■■■	▀
□	23349	TR	1		23359	L359-■---	I
□	23354	UNL	7	08	2899	2Q99-●●	I
□	23359	TZB	•	04	23369	LT69-■■■	▀
□	23364	UNL	7	09	2898	2QZ8 □	I
□	23369	TR	1		22244	K244-■■■	----R04

ALL CHARS    BB

ALL CHARS -----111

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gtrans/g0014582  
 □ 23459 TZB • 07 23489 LUH9-----  
 □ 23464 UNL 7 09 2895 2QZ5 □ I  
 □ 23469 TR 1 23489 L489-----Y  
 □ I  
 □ 23474 TZB • 07 23484 LUH4-----I  
 □ 23479 TR 1 23489 L489-----Y  
 □ 23484 UNL 7 08 2895 2Q95 • I I  
 □ I  
 □ 23489 TZB • 01 23499 L4Z9-----I  
 □ 23494 TR 1 23504 L504-----I  
 □ 23499 UNL 7 08 2901 2R01 • I I  
 □ 23504 TZB • 02 23514 L5J4-----I  
 □ 23509 TR 1 23519 L519-----I  
 □ 23514 UNL 7 08 2900 2R00 • I I  
 □ 23519 TZB • 03 23529 L5B9-----I  
 □ 23524 TR 1 23534 L534-----I  
 □ 23529 UNL 7 08 2899 2Q99 • I I  
 □ 23534 TZB • 04 23544 LV44-----I  
 □ 23539 UNL 7 09 2898 2QZ8 □ I  
 □ 23544 TR 1 22244 K244-----R04  
 □ I

ALL CHARS -----1--- BB

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□ 23549 TZB • 07 23579 LVG9-----  
 □ 23554 UNL 7 09 2895 2QZ5 □ I  
 □ 23559 TR 1 23579 L579-----Y  
 □ I  
 □ 23564 TZB • 07 23574 LVG4-----I  
 □ 23569 TR 1 23579 L579-----Y  
 □ 23574 UNL 7 08 2895 2Q95 • I I  
 □ I  
 □ 23579 TZB • 01 23589 L5Y9-----I  
 □ 23584 UNL 7 09 2901 2R 1 □ I  
 □ 23589 TZB • 02 23599 L5R9-----I  
 □ 23594 UNL 7 09 2900 2R 0 □ I  
 □ 23599 TZB • 03 23609 L669-----I  
 □ 23604 UNL 7 09 2899 2QZ9 □ I  
 □ 23609 TZB • 04 23619 LW19-----I  
 □ 23614 TR 1 23624 L624-----I  
 □ 23619 UNL 7 08 2898 2Q98 • I I  
 □ 23624 TR 1 22244 K244-----R04  
 □ I

ALL CHARS -----1--1 BB

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□ 23629 TZB • 07 23659 LWE9-----AQ10  
 □ 23634 UNL 7 09 2895 2QZ5 □  
 □ 23639 TR 1 23659 L659-----AQ10  
 □ I  
 □ 23644 TZB • 07 23654 LWE4-----I  
 □ 23649 TR 1 23659 L659-----AQ10  
 □ 23654 UNL 7 08 2895 2Q95 • I I  
 □ I

NEXT PAGE

gscans/g001413049

□ 23659 TZB • 01 23669 L6W9-■-■	
□ 23684 TR 1 23674 L674-■-■	
□ 23669 UNL 7 08 2901 2R01 ■ ■ I	-----D
□ 23674 TZB • 02 23684 L6Q4-■-■■■	-----P-
□ 23679 UNL 7 09 2900 2R 0 □ I	-----P--
□ 23684 TZB • 03 23694 L6I4-■-■■■	-----P--
□ 23689 UNL 7 09 2899 2QZ9 □ I	-----P--
□ 23694 TZB • 04 23704 LX04-■-■■■ I	-----P--
□ 23699 TR 1 23709 L709-■-■■■ I	-----D---
□ 23704 UNL 7 08 2898 2Q98 ■ ■ I	-----D---
□ 23709 TR 1 22244 K244-■-■■■ R04	-----R04

ALL CHARS ---1-1- BB

□ 23714 TZB • 07 23744 LXD4-■-■■■	
□ 23719 UNL 7 09 2895 2QZ5 □ I	P-----
□ 23724 TR 1 23744 L744-■-■■■	D-----
□ 23729 TZB • 07 23739 LXC9-■-■■■	
□ 23734 TR 1 23744 L744-■-■■■	
□ 23739 UNL 7 08 2895 2Q95 ■ ■ I	
□ 23744 TZB • 01 23754 L7V4-■-■■■ I	
□ 23749 UNL 7 09 2901 2R 1 □ I	-----P
□ 23754 TZB • 02 23764 L704-■-■■■	-----D-
□ 23759 TR 1 23769 L769-■-■■■ I	-----P--
□ 23764 UNL 7 08 2900 2R00 ■ ■ I	-----D-
□ 23769 TZB • 03 23779 L7G9-■-■■■	-----P--
□ 23774 UNL 7 09 2899 2QZ9 □ I	-----D---
□ 23779 TZB • 04 23789 LX89-■-■■■	
□ 23784 TR 1 23794 L794-■-■■■	
□ 23789 UNL 7 08 2898 2Q98 ■ ■ I	
□ 23794 TR 1 22244 K244-■-■■■ R04	-----R04

ALL CHARS ---1-11 BB

□ 23799 TZB • 07 23829 LYB9-■-■■■	
□ 23804 UNL 7 09 2895 2QZ5 □ I	P-----
□ 23809 TR 1 23829 L829-■-■■■	D-----
□ 23814 TZB • 07 23824 LYB4-■-■■■	
□ 23819 TR 1 23829 L829-■-■■■	
□ 23824 UNL 7 08 2895 2Q95 ■ ■ I	
□ 23829 TZB • 01 23839 L8T9-■-■■■ I	
□ 23834 TR 1 23844 L844-■-■■■	-----D
□ 23839 UNL 7 08 2901 2R01 ■ ■ I	-----D-
□ 23844 TZB • 02 23854 L8N4-■-■■■	-----P--
□ 23849 TR 1 23859 L859-■-■■■	-----D-
□ 23854 UNL 7 08 2900 2R00 ■ ■ I	-----P--
□ 23859 TZB • 03 23869 L8F9-■-■■■	-----D---
□ 23864 UNL 7 09 2899 2QZ9 □ I	-----D---
□ 23869 TZB • 04 23879 LY79-■-■■■ I	
□ 23874 TR 1 23884 L884-■-■■■ I	
□ 23879 UNL 7 08 2898 2Q98 ■ ■ I	
□ 23884 TR 1 22244 K244-■-■■■ R04	-----R04

ALL CHARS —11—

BB

gans/g00145

■ 23889	TZB	07	23919	LZA9
■ 23894	UNL	7 09	2895	2QZ5
■ 23899	TR	1	23919	L919
■ 23904	TZB	07	23914	LZA4
■ 23909	TR	1	23919	L919
■ 23914	UNL	7 08	2895	2QZ5

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■ 23919	TZB	01	23929	L9S9
■ 23924	UNL	7 09	2901	2R 1 R I
■ 23929	TZB	02	23939	L9L9
■ 23934	UNL	7 09	2900	2R 0 R I
■ 23939	TZB	03	23949	L999
■ 23944	TR	1	23954	L954
■ 23949	UNL	7 08	2899	2Q99
■ 23954	TZB	04	23964	LZ64
■ 23959	TR	1	23969	L969
■ 23964	UNL	7 08	2898	2Q98
■ 23969	TR	1	22244	K244

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R04

gscan5/00014718.bng

	LINE-COINC.	TEST BEAT	X BASE ON Y	Y BASE ON X
	X--Y	ADDR		
2 035 24024	00	064 000	080009	080009
2 035 24059		065 001	080029	120009
2 035 24094		066 002	080059	080019
2 035 24129		067 003	120079	120019
2 035 24164		068 004	080309	080109
2 035 24199		069 005	120329	080229
2 035 24234		070 006	080359	080249
2 035 24269		071 007	120379	080269
2 035 24304		072 008	081409	080409
2 035 24339		073 009	121429	080429
2 035 24374		074 010	081459	080449
2 035 24409		075 011	121479	080469
2 035 24444		076 012	081709	080609
2 035 24479		077 013	121729	080629
2 035 24514		078 014	081759	080649
2 035 24549		079 015	121779	080669
2 035 24584		080 016	092009	090009
2 035 24619		081 017	132029	082029
2 035 24654		082 018	092059	082049
2 035 24689		083 019	132079	082069
2 035 24724		084 020	092309	082209
2 035 24759		085 021	132329	082229
2 035 24794		086 022	092359	082249
2 035 24829		087 023	132379	082269
2 035 24864		088 024	093409	082409
2 035 24899		089 025	133429	082429
2 035 24934		090 026	093459	082449
2 035 24969		091 027	133479	082469
2 035 25004		092 028	093709	082609
2 035 25039		093 029	133729	082629
2 035 25074		094 030	093759	082649
2 035 25109		095 031	133779	082669
2 035 25144		096 032	104009	084009
2 035 25179		097 033	144029	084029
2 035 25214		098 034	104059	084049
2 035 25249		099 035	144079	084069
2 035 25284		100 036	104309	084209
2 035 25319		101 037	144329	084229
2 035 25354		102 038	104359	084249
2 035 25389		103 039	144379	084269
2 035 25424		104 040	105409	084409
2 035 25459		105 041	145429	084429
2 035 25494		106 042	105459	084449
2 035 25529		107 043	145479	084469
2 035 25564		108 044	105709	084609
2 035 25599		109 045	145729	084629
2 035 25634		110 046	105759	084649
2 035 25669		111 047	145779	084669
2 035 25704		112 048	116009	086009
2 035 25739		113 049	156029	086029
2 035 25774		114 050	116059	086049
2 035 25809		115 051	156079	086069
2 035 25844		116 052	116309	086209
2 035 25879		117 053	156329	086229
2 035 25914		118 054	116359	086249
2 035 25949		119 055	156379	086269
2 035 25984		120 056	117409	086409
2 035 26019		121 057	157429	086429
2 035 26054		122 058	117459	086449
2 035 26089		123 059	157479	086469
2 035 26124		124 060	117709	086609
2 035 26159		125 061	157729	086629
2 035 26194		126 062	117759	086649
2 035 26229		127 063	157779	086669

g	001	035	26264	064	064	080809	080809	080009
2	035	26299		065	065	120829	080829	120009
2	035	26334		066	066	080859	080849	080019
2	035	26369		067	067	120879	080869	120019
2	035	26404		068	068	082909	082809	080109
2	035	26439		069	069	122929	082829	120109
2	035	26474		070	070	082959	082849	080119
2	035	26509		071	071	122979	082869	120119
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2	035	26579		073	073	125829	084829	121009
2	035	26614		074	074	085859	084849	081019
2	035	26649		075	075	125879	084869	121019
2	035	26684		076	076	087909	086809	081109
2	035	26719		077	077	127929	086829	121109
2	035	26754		078	078	087959	086849	081119
2	035	26789		079	079	127979	086869	121119
2	035	26824		080	080	098009	088009	090009
2	035	26859		081	081	138029	088029	130009
2	035	26894		082	082	098059	088049	090019
2	035	26929		083	083	138079	088069	130019
2	035	26964		084	084	098309	088209	090109
2	035	26999		085	085	138329	088229	130109
2	035	27034		086	086	098359	088249	090119
2	035	27069		087	087	138379	088269	130119
2	035	27104		088	088	099409	088409	091009
2	035	27139		089	089	139429	088429	131009
2	035	27174		090	090	099459	088449	091019
2	035	27209		091	091	139479	088469	131019
2	035	27244		092	092	099709	088609	091109
2	035	27279		093	093	139729	088629	131109
2	035	27314		094	094	099759	088649	091119
2	035	27349		095	095	139779	088669	131119
2	035	27384		096	096	100089	080089	100009
2	035	27419		097	097	142089	082089	140009
2	035	27454		098	098	104099	084089	100019
2	035	27489		099	099	146099	086089	140019
2	035	27524		100	100	100389	080289	100109
2	035	27559		101	101	142389	082289	140109
2	035	27594		102	102	104399	084289	100119
2	035	27629		103	103	146399	086289	140119
2	035	27664		104	104	101489	080489	101009
2	035	27699		105	105	143489	082489	141009
2	035	27734		106	106	105499	084489	101019
2	035	27769		107	107	147499	086489	141019
2	035	27804		108	108	101789	080689	101109
2	035	27839		109	109	143789	082689	141109
2	035	27874		110	110	105799	084689	101119
2	035	27909		111	111	147799	086689	141119
2	035	27944		112	112	110889	080889	110009
2	035	27979		113	113	152889	082889	150009
2	035	28014		114	114	114899	084889	110019
2	035	28049		115	115	156899	086889	150019
2	035	28084		116	116	118909	088809	110109
2	035	28119		117	117	158929	088829	150109
2	035	28154		118	118	118959	088849	110119
2	035	28189		119	119	158979	088869	150119
2	035	28224		120	120	119089	088089	111009
2	035	28259		121	121	159289	088289	151009
2	035	28294		122	122	119499	088489	111019
2	035	28329		123	123	159699	088689	151019
2	035	28364		124	124	119989	088889	111109
2	035	28399		125	124	159989	088889	151109
2	035	28434		126	124	119999	088889	111119
2	035	28469		127	124	159999	088889	151119
2	001	28470						

24004 M004 INITIAL DIAGONAL TEST BEAT ADR  
 2 006 28480 CURRENT INTERROG ADDR REFERENCE  
 2 006 39995 & 1000 BEAT COUNTER VALUE



AA 01	TITLE	SMU99A -160- -	TESTS
AA 02	TITLE	-7902 1 AIR COOLER-	MEMORY PERMANENT STABILITY ON
AA 03	TITLE	TESTS 00000-79999	SECT 1- QMC3 DISCRIMINATION
AA 04	TITLE		SECT 2- ZONES DISCRIMINATION
AA 05	TITLE		AA 06
AA 06	TITLE		AA 07
AA 07	TITLE		AA 08
AA 08	TITLE		AA 09
AA 09	TITLE		AA 10
AA 10	TITLE		AA 11
AA 11	TITLE		AA 12
AA 12	TITLE		AA 13
AA 13	TITLE		AA 14
AA 14	TITLE		AA 15
AA 15	TITLE		AA 16
AA 16	TITLE		AA 17
AA 17	TITLE		AA 18
AA 18	TITLE		AA 19
AA 19	TITLE		AA 20
AA 20	TITLE		AA 21
AA 21	TITLE		AA 22
AA 22	TITLE		AA 23
AA 23	TITLE		AA 24
AA 24	TITLE		AA 25
AA 25	TITLE		AA 26
AA 26	TITLE		AA 27
AA 27	TITLE		





TINDEX	OP	NU AT	OPERAND	PROGRAM	8MU99	LOC	OP SU	ADDRESS	COMMENITS	-	-	GLIN SER REF	TITLE	SPECIFIC SECTION SELECTION	AD 44			
AD 01	00	8MU9950820-004	133795	179E	0124	120419	7	133580	1586	0125	D844	UNL	00	8MU9950340-004	0124			
AD 02	00	8MU9950430-004	133580	1586	0125	120424	7	133580	1586	0125	D843	UNL	00	8MU9951270-004	0124			
AD 03	00	8MU9951270-004	133620	1626	0126	120429	7	133620	1626	0126	D804	UNL	00	8MU9950430-004	0125			
AD 04	00	8MU9950430-004	133930	1996	0127	120434	7	133930	1996	0127	D804	UNL	00	8MU9951270-004	0125			
AD 05	00	8MU9951360-004	134030	0036	0128	120444	7	134030	0036	0128	D013	UNL	00	8MU993787850-004	0125			
AD 06	00	8MU995360-004	134064	#656	0129	120444	7	134064	#656	0129	D120	UNL	00	8MU9953360-004	0125			
AD 07	00	8MU9953050-004	134570	0576	0131	120454	7	134570	0576	0131	D119	UNL	00	8MU993787850-004	0125			
AD 08	00	8MU9953050-004	134735	077E	0133	120464	7	134735	077E	0133	D122	UNL	00	8MU9953360-004	0125			
AD 09	00	8MU9953460-004	134974	077E	0134	120469	7	134974	077E	0134	D122	UNL	00	8MU9953500-004	0125			
AD 10	00	8MU9953460-004	134990	079E	0135	120474	7	134990	079E	0135	D123	UNL	00	8MU995460-004	0125			
AD 11	00	8MU9953500-004	135030	0V96	0136	120479	7	135030	0V96	0136	D036	UNL	00	8MU9956560-004	0125			
AD 12	00	8MU995460-004	135030	V996	0136	120494	7	135030	V996	0136	D023	UNL	00	8MU9956560-004	0125			
AD 13	00	8MU9954160-004	135030	V996	0136	120499	7	135030	V996	0136	D023	UNL	00	8MU9956560-004	0125			
AD 14	00	8MU9954160-004	135030	V996	0136	120504	7	135030	V996	0141	D036	UNL	00	8MU9956560-004	0125			
AD 15	00	8MU9937800-004	135030	V996	0136	120504	7	135030	V996	0141	D036	UNL	00	8MU9956560-004	0125			
AD 16	00	8MU995050-004	135590	V59	0139	120494	7	135590	V59	0139	DN20	UNL	00	8MU995050-004	0125			
AD 17	00	8MU9956460-004	135590	V59	0139	120499	7	135590	V59	0139	DN20	UNL	00	8MU9956460-004	0125			
AD 18	00	8MU9956560-004	135755	V75E	0140	120504	7	135755	V75E	0140	D023	UNL	00	8MU9956560-004	0125			
AD 19	00	8MU9956560-004	135795	V79E	0141	120504	7	135795	V79E	0141	D036	UNL	00	8MU9956560-004	0125			
AD 20	00	8MU9956860-004	135850	V856	0142	120509	7	135850	V856	0142	D023	UNL	00	8MU9956860-004	0125			
AD 21	00	8MU995760-004	135890	V896	0143	120514	7	135890	V896	0143	D026	UNL	00	8MU995760-004	0125			
AD 22	01	8MU9910700	000001	122717	27/G	0146	120524	H	1	122717	27/G	0146	AR17	RAD	01	8MU9910710	000005	
AD 23	01	HOUSEKEEPING	000001	122717	27/G	0146	120524	H	1	122723	2XKC	0151	AR18	TITLE	06	8MU9910710	000005	
AD 24	04	000004	122723	2XKC	0151	0147	120529	B	4	000004	0#04	0148	0147	SET	05	000004	122729	2XKC
AD 25	04	000004	122729	2XKC	0149	0147	120534	B	5	000005	C##5	0149	0147	TITLE	05	000004	122729	2XKC
AD 26	04	000005	122729	2XKC	0149	0147	120534	B	5	000005	C##5	0149	0147	SET	05	000005	122729	2XKC
AD 27	06	8MU9910710	000005	122723	2XKC	0150	120539	H	6	122723	2XKC	0151	0148	TITLE	06	8MU9910710	000005	
AD 28	07	000007	122725	2PTE	0152	0152	120544	B	7	000007	0#67	0153	0152	SET	07	000007	122725	2PTE
AD 29	07	000007	122725	2PTE	0153	0152	120549	B	7	123482	3UHB	0154	0152	TITLE	07	000007	122725	2PTE
AD 30	07	000007	122725	2PTE	0153	0152	120544	B	7	000007	0#67	0153	0152	SET	07	000007	122725	2PTE
AD 31	07	000007	122725	2PTE	0153	0152	120549	B	7	123482	3UHB	0154	0152	TITLE	07	000007	122725	2PTE
AD 32	08	000001	122725	2PTE	0153	0153	120554	B	8	122775	2PTE	0157	0153	SET	08	000001	122725	2PTE
AD 33	08	000001	122725	2PTE	0157	0153	120559	B	8	122775	2PTE	0157	0153	TITLE	08	000001	122725	2PTE
AD 34	08	000001	122725	2PTE	0157	0153	120554	B	8	000001	0-01	0156	0153	SET	08	000001	122725	2PTE
AD 35	09	000001	122725	2PTE	0157	0153	120564	B	9	000001	0-#1	0159	0153	TITLE	09	000001	122725	2PTE
AD 36	09	000001	122725	2PTE	0159	0153	120569	B	9	122779	2PTE	0160	0153	SET	09	000001	122725	2PTE
AD 37	09	000001	122725	2PTE	0160	0153	120564	B	9	122779	2PTE	0160	0153	TITLE	09	000001	122725	2PTE
AD 38	10	8MU9910500	0	1	122681	20HA	0162	120574	H	10	122681	20HA	0163	A042	RAD	11	8MU9910510	1
AD 39	10	8MU9910500	0	1	122682	20HB	0163	120579	H	11	122682	20HB	0163	A042	NOP	00	000004	122682
AD 40	11	8MU9910510	1	1	122682	20HB	0163	120584	A	000004	0004	0165	0165	NOP	00	000004	122682	
AD 41	11	8MU9910510	1	1	122682	20HB	0163	120589	A	000004	0004	0166	0166	NOP	00	000004	122682	

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8MU99	-	-	COMMENTS	LOC OP SU	ADDRESS	PGLIN SER REF		
<b>DEPRESS START--</b>													
AE 05				TITLE	DEPRESS START--								
AE 06	EEM	14	600000	RE-ENTER 7080 MODE	19990	TEST TENS ORDER OF SS AREA	120614 U	I 019990 06-0 0173	120614	I 019990 2920 0174	AE10		
AE 07	RCVS	01	619990	MUST BE 0-9	8MU9902730	MUST BE 0-9	120619 *	I 120629 0651 0175	120619	I 120629 0651 0176	AE10		
AE 08	TR	00	8MU9902860	MUST BE 10-16			120624	I 120649 0690 0176	120624	I 120649 0690 0176	AE26		
AE 09	TR	00	8MU9902770	SECTION 8	19991	TEST UNITS ORDER OF SS AREA	120629 U	I 019991 2921 0177	120629	I 120644 1 129999 9991 0180	CE22		
AE 10	8MU9902730	RCVS	01	8MU9902770	SECTION 9	8MU9935800	120644	I 120644 1 129999 9991 0180	120644	I 120644 1 129999 9991 0180	AE15		
AE 11	TR	00	8MU9902770	SECTION 8	19991	TEST UNITS ORDER OF SS AREA	120634 *	I 120649 0641 0178	120634	I 120649 0641 0178	AE15		
AE 12	TR	01	8MU99035600	SECTION 9	19991	TEST UNITS ORDER OF SS AREA	120639 *	I 120649 0641 0178	120639	I 120649 0641 0178	AE15		
AE 13	TR	00	8MU99035800	SECTION 9	19991	TEST UNITS ORDER OF SS AREA	120644	I 120644 1 129999 9991 0180	120644	I 120644 1 129999 9991 0180	AE24		
AE 14	TITLE	4	8MU9902770	120649 *	3 120669 06FI 0182	120649 *	3 120669 06FI 0182	120649	I 120664 1 129784 9780 0185	CD32	AE20		
AE 15	8MU9902770	TZB	02	8MU9902840	120654 *	2 120684 060D 0183	120654 *	2 120684 060D 0183	120654	I 120659 1 129699 9962 0184	CD06	AE24	
AE 16	TZB	01	8MU9903350	SECTION 1 OR NONE SELECTED	120669	120669	120669	120669	I 120774 077D 0189	AF02	AE26		
AE 17	TZB	02	8MU9903350	SECTION 2	120674 *	2 120899 08RI 0187	120674 *	2 120899 08RI 0187	120674	I 120764 07WD 0188	AF02	AE26	
AE 18	TZB	01	8MU9903080	SECTION 3	120679	120679	120679	120679	I 120774 077D 0189	AF02	AE26		
AE 19	TITLE	4	8MU9902810	120684 *	1 120784 07YD 0201	120684	120684	120684	I 129404 940D 0202	CB14	AE26		
AE 20	8MU9902810	TZB	02	8MU9903130	SECTION 4	120684	120684	120684	I 129404 940D 0202	CB14	AE26		
AE 21	TZB	01	8MU9903000	SECTION 2 OR NONE SELECTED	120669	120669	120669	120669	I 120774 077D 0189	AF02	AE26		
AE 22	TR	00	8MU9903080	SECTION 3	120679	120679	120679	120679	I 120774 077D 0189	AF02	AE26		
AE 23	TITLE	4	8MU9902840	120684 *	1 120784 07YD 0201	120684	120684	120684	I 129404 940D 0202	CB14	AE26		
AE 24	8MU9902840	TZB	01	8MU9903130	SECTION 4	120684	120684	120684	I 129404 940D 0202	CB14	AE26		
AE 25	TZB	02	8MU9903100	SECTION 5	120689	120689	120689	120689	I 129404 940D 0202	CB14	AE26		
AE 26	8MU9902860	RCVS	01	8MU9931991	TEST UNITS ORDER OF SS AREA	120694	U 019991 2921 0203	120694	I 130144 #14D 0206	AE31	AE26		
AE 27	TZB	08	8MU9902900	STORED QTY GREATER THAN 16.S-1	120699	120699	120699	120699	I 120714 0X1D 0204	AE31	AE26		
AE 28	TZB	02	8MU9936350	SECTION 10	120704 *	2 120899 08RI 0205	120704 *	2 120899 08RI 0205	120704	I 130144 #14D 0206	AE31	AE26	
AE 29	TR	00	8MU9936000	SECTION 10	120709	120709	120709	120709	I 130144 #14D 0206	AE31	AE26		
AE 30	TITLE	4	8MU9902930	120714 *	2 120754 07ND 0209	120714	120714 *	120719	I 141609 J601 0210	AE42	AE26		
AE 31	8MU9902900	TZB	02	8MU9902930	SECTION 16	120719	120719	120719	I 141609 J601 0210	AE42	AE26		
AE 32	TZB	04	8MU9974000	SECTION 16	120724	120724	120724	120724	I 141609 J601 0210	AE42	AE26		
AE 33	TITLE	4	8MU9902930	120724 *	2 120754 07ND 0209	120724	120724 *	120729	I 141609 J601 0210	AE42	AE26		
AE 34	TITLE	4	8MU9902960	120729	120729	120729	120729	I 130374 #3XD 0213	120729	I 130384 #38D 0214	AE39	AE26	
AE 35	8MU9902930	TZB	02	8MU9902960	SECTION 12	120734	120734	120734	I 130384 #3XD 0213	120734	I 130384 #38D 0214	AE39	AE26
AE 36	TZB	01	8MU9936400	SECTION 12	120739	120739	120739	120739	I 130384 #38D 0214	AE39	AE26		
AE 37	TR	00	8MU9936600	SECTION 13	120739	120739	120739	120739	I 130384 #38D 0214	AE39	AE26		
AE 38	TITLE	4	8MU9902960	120744 *	1 130144 #1UD 0216	120744	120744 *	120744	I 130244 #24D 0217	CG69	AE26		
AE 39	8MU9902960	TZB	01	8MU9936000	NO 8421 - GO TO SECTION 10	120744	120744 *	120744	I 130244 #24D 0217	CG69	AE26		
AE 40	TR	00	8MU9936200	SECTION 11	120749	120749	120749	120749	I 130244 #24D 0217	CG69	AE26		
AE 41	TITLE	4	8MU996500C	SECTION 14	120754	120754	120754	120754	I 140004 -0#D 0219	0218	AE26		
AE 42	8MU9902980	TZB	01	8MU996500C	SECTION 14	120754	120754	120754	I 140004 -0#D 0219	0218	AE26		

INDEX	TAG	OP	NU AT	OPRAND	PROGRAM	MNU99	-	COMMENTS	LOC	OP SU	ADDRESS	PGLIN	SER REF
AF 01		TR	00	MNU9965150	SECTION 15				120759	1	140049 -041	0220	D218
AF 02		SGN	00	MNU9903850-004	SET SECTION 2 SWITCHES TO TR	120764	1		121030	1036	0221	015A627	
AF 03		TR	00	MNU990384C-004	SET SECTION 3 SWITCHES TO TR	120774	1		121025	1026	0223	A626	
AF 04		SGN	00	MNU990384C-004	SET SECTION 4 SWITCHES TO TR	120779	1		120814	0810	0224	A626	
AF 05		TR	00	MNU9903200									A626
AF 06		MNU9903130	SGN	00	MNU9903830-004	SET SECTION 4 SWITCHES TO TR	120784	1		121020	1026	0225	A625
AF 07		SGN	00	MNU9913040-004									AW18
AF 08		SGN	00	MNU9913190-004									AW18
AF 09		SGN	00	MNU9913450-004									AW33
AF 10		SGN	00	MNU9914340-004									AW33
AF 11		TR	00	MNU9903270									AF24
AF 12					SECTION 3 SETUP								
AF 13					BLM	00	016000	BLANK 80000 POSITIONS OF MEM	120814	U	1,000004 004	0232	
AF 14					BLM	00	016000	BLANK 80000 POSITIONS OF MEM	120819	S	016000 0000	0233	
AF 15					SET	00	000005	V-V-V	120824	B	000005 0005	0235	AF16
AF 16					SGR	00	000005	V-V-V	120829	8	122818 281H	0236	AR45
AF 17					SGR	08	000001	RESET C BITS OFF	120839	%	8 000001 0-01	0239	
AF 18					SGR	08	000001	RESET C BITS OFF	120844	%	8 000003 0-03	0240	
AF 19					SGR	08	000001	RESET C BITS OFF	120849	I	120979 0971	0241	AF14
AF 20					SGR	08	000001	RESET C BITS OFF	120854	U	1,000004 004	0243	
AF 21					SGR	08	000003		120854	U	1,000004 004	0243	AF21
AF 22					SGR	08	000003		120854	U	1,000004 004	0243	AF22
AF 23					SGR	08	000004	SECTION 4 SETUP	120854	U	1,000004 004	0243	AF23
AF 24					RCVS	01	000004		120854	U	1,000004 004	0243	AF24
AF 25					RCVS	01	016000	BLANK 80000 POSITIONS OF MEM	120859	S	016000 0000	0244	AF25
AF 26					SET	00	000005	V-V-V	120864	B	000005 0005	0245	AF26
AF 27					UNL	00	000005		120864	B	000005 0005	0246	AF27
AF 28					UNL	00	000005		120869	8	122828 282H	0247	AR46
AF 29					UNL	00	000005		120874	7	000004 0004	0248	
AF 30					SGR	08	000000	RESET C BITS OFF	120879	%	8 000000 0-00	0250	AF30
AF 31					SGR	08	000002		120884	%	8 000002 0-02	0251	O17
AF 32					SGR	08	000004		120889	%	8 000004 0-04	0252	
AF 33					SGR	08	000004		120894	I	120979 0971	0253	AF34
AF 34					SGR	08	000004		120894	I	120979 0971	0253	AF34
AF 35					SET	00	000005	SECTION 1 SETUP	120899	B	000005 0005	0255	AF35
AF 36					SET	00	000005	5 GROUP MARKS	120904	8	122804 280D	0256	AR40
AF 37					UNL	00	000004		120909	7	000004 0004	0257	
AF 38					UNL	00	000002		120924	%	8 000002 0-02	0261	AF42
AF 39					SGR	08	000002		120919	%	8 000001 0-01	0260	AF41
AF 40					SGR	08	000003	SET C BITS ON	120914	S	8 000000 0-00	0259	AF40
AF 41					SGR	08	000001		120924	%	8 000002 0-02	0261	

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8MU99	-	-	COMMENTS	LOC OP SU	ADDRESS	PGLIN SER REF
AG 01	SBR	08	000003	8 000003 0-03	0262	120929 %	120929 %	8 000003 0-03	0262	120934 %	8 000004 0-04
AG 02	SBR	08	000004	8 000004	0263	120939 %	120939 %	8 000004 0-04	0263	120939 1	120979 0971 0264
AG 03	TR	00	8MU9903600	8MU9903600	0264	120939 1	120939 1	120979 0971 0264	0264	120939 1	120979 0971 0264
AG 04	SECTION 2 SETUP	BLM	00	000004	01	120944 U	1 000004 00#4	0266	0265	018	120944 U
AG 05	SECTION 2 SETUP	BLM	00	016000	01	120944 U	016000 0000 00#4	0267	120944 U	016000 0000 00#4	
AG 06	SECTION 2 SETUP	BLM	00	016000	01	120944 U	016000 0000 00#4	0267	120944 U	016000 0000 00#4	
AG 07	RESET C AND A BITS OFF	000000	A	000001	000001	120959 %	5 000001 0#41	0270	120959 %	5 000002 0#42	
AG 08	RESET C AND A BITS OFF	000000	A	000002	000002	120959 %	5 000002 0#42	0271	120959 %	5 000003 0#43	
AG 09	RESET C AND A BITS OFF	000000	A	000003	000003	120959 %	5 000003 0#43	0272	120959 %	5 000004 0#44	
AG 10	COMMON MEMORY FILL AREA	000249	RCVS	00	000009	120979 B	000249 0249 0275	0273	120979 B	000249 0249 0275	
AG 11	COMMON MEMORY FILL AREA	000249	RCVS	01	000009	120979 U	000249 00#9 0276	0273	120979 U	000249 00#9 0276	
AG 12	COMMON MEMORY FILL AREA	000249	RCVS	00	000004	120979	000004 0#4 0277	0273	120979	000004 0#4 0277	
AG 13	COMMON MEMORY FILL AREA	000249	RCVS	00	000004	120979	000004 0#4 0277	0273	120979	000004 0#4 0277	
AG 14	COMMON MEMORY FILL AREA	000249	RCVS	00	000004	120979	000004 0#4 0277	0273	120979	000004 0#4 0277	
AG 15	COMMON MEMORY FILL AREA	000249	RCVS	01	000009	120979	000009 00#9 0276	0273	120979	000009 00#9 0276	
AG 16	COMMON MEMORY FILL AREA	000249	RCVS	01	000009	120979	000009 00#9 0276	0273	120979	000009 00#9 0276	
AG 17	AT 0009-1245 CHARS-FROM 0004	0278	SND	00	000004	12094 H	3 122707 2766 0279	019	12094 H	3 122707 2766 0279	
AG 18	AT 1254-1250 CHARS-FROM 0004	0278	SND	00	000004	120994 B	120994 B	0280	120994 B	120994 B	
AG 19	AT 1254-1250 CHARS-FROM 0004	0278	SND	00	000004	120994 B	120994 B	0280	120994 B	120994 B	
AG 20	AT 1254-1250 CHARS-FROM 0004	0278	SND	00	000004	120994 B	120994 B	0280	120994 B	120994 B	
AG 21	DECREASE CTR BY 1	0282	TR	00	8MU9910510	121009 P	3 122682 26HB 0283	0282	121009 P	3 122682 26HB 0283	
AG 22	DECREASE CTR BY 1	0282	TRZ	03	8MU9910510	121009 P	3 122682 26HB 0283	0282	121009 P	3 122682 26HB 0283	
AG 23	SECTION 4 SWITCH	0282	SUB	03	8MU9910510	121009 P	3 122682 26HB 0283	0282	121009 P	3 122682 26HB 0283	
AG 24	SECTION 4 SWITCH	0282	TRZ	03	8MU9910510	121009 P	3 122682 26HB 0283	0282	121009 P	3 122682 26HB 0283	
AG 25	SECTION 4 SWITCH	0282	NOP	00	8MU9913000	121024 A	124299 4291 0286	0282	121024 A	124299 4291 0286	
AG 26	SECTION 3 SWITCH	0282	NOP	00	8MU9913000	121029 A	124299 4291 0287	0282	121029 A	124299 4291 0287	
AG 27	SECTION 2 SWITCH	0282	NOP	00	8MU9903840	121034 A	121309 1301 0288	0282	121034 A	121309 1301 0288	
AG 28	SECTION 1-EQUAL INTERROGATION	0289	LDA	00	8MU9910730	121039 *	122739 2731 0300	0289	121039 *	122739 2731 0300	
AG 29	SECTION 1-EQUAL INTERROGATION	0289	LDA	00	8MU9910730	121039 *	122739 2731 0300	0289	121039 *	122739 2731 0300	
AG 30	SET INITIAL TEST ADDR	0289	ULB	00	8MU9904060	121044 *	121054 1050 0301	0289	121044 *	121054 1050 0301	
AG 31	TEST ADDRESS	0302	TITLE								
AG 32	TEST ADDRESS	0303	TITLE								
AG 33	TEST ADDRESS	0303	TITLE								
AG 34	TEST ADDRESS	0303	TITLE								
AG 35	TEST FOR 5 EQUAL GM-S	0306	CMP	00	8MU9910855	121059 4	122804 280D 0306	0306	121059 4	122804 280D 0306	
AG 36	BIT DROP-IF NOT EQUAL	0307	TR	00	8MU9904200	121064 L	121074 107D 0307	020A639	121064 L	121074 107D 0307	
AG 37	BIT DROP-IF NOT EQUAL	0308	TR	00	8MU9904200	121069 1	121524 152D 0308	020A639	121069 1	121524 152D 0308	
AG 38	SECTION 1-C BIT DROP INTERROGATION	0309	TITLE								
AG 39	DECRASE CHK ADDR BY 4	0310	LDA	00	8MU9904060	121079 P	122685 268E 0311	0310	121079 P	122685 268E 0311	
AG 40	DECRASE CHK ADDR BY 4	0311	ULB	00	8MU9904060	121084 *	121084 109D 0312	0311	121084 *	121084 109D 0312	
AG 41	SET CHK ADDR	0312	ULB	00	8MU9904060	121084 *	121084 109D 0312	0312	121084 *	121084 109D 0312	
AG 42	AG 42										

INDEX TAG OP NU AT OPERAND PROGRAM 8MU99 - - COMMENTS LOC OP SU ADDRESS PG LIN SER REF

AH 01	RAD	02	8MU9910530	5	DECREASE CTR BY 1	121104 P 2 122682 260B 0318	0317	AH 04	TITLE	TEST FOR C BIT DROP	8MU9904750	INCRASE CTR BY 1	121104 P 2 122686 260F 0314	121099 *	7 121204 156D 0316	AH30										
AH 02	8MU9904260	RVS	01	@000000	CHECK ADDRESS	121094 U 1 222686 260F 0314	AH03	AH 05	8MU9904280	SUS	02	6MU9910510	DECREASE CTR BY 1	121104 P 2 122682 260B 0318	0317	AH 10	TR	00	8MU9904400	TEST FOR 7999	121129 4	122792 279B 0323	AH33			
AH 06	TRZ	02	8MU9904400	INCRASE CTR BY 1	121109 N 2 121124 11K 0319	AH09	AH 07	AMM	01	8MU9904400	INCRASE CHK ADDR BY 1	121114 @ 1 121094 102D 0320	121114 1	121094 109D 0321	AH02											
AH 08	TR	00	8MU9904260	TEST FOR 7999	121119 1	121094 109D 0321	AH02	AH 09	8MU9904400	LDA	00	8MU9904060	TEST FOR 7999	121124 #	121054 105D 0322	021A34										
AH 10	CMP	00	8MU9910830	INCRASE CTR BY 1	121129 4	122792 279B 0323	AH33	AH 11	TR	00	8MU9904500	SECTION 1 COMPLETE	121134 L	121149 114I 0324	AH15											
AH 11	TR	00	8MU9904500	SECTION 1 COMPLETE	121134 L	121149 114I 0324	AH15	AH 12	TITLE	INCRASE TEST ADDR BY 00005	121139 @ 6 121054 1#ND 0326	0325	AH14	TR	00	8MU9904060	INCRASE TEST ADDR BY 00005	121139 @ 6 121054 1#ND 0326	0325	AH14						
AH 13	AMM	06	8MU9904060	INCRASE TEST ADDR BY 00005	121139 @ 6 121054 1#ND 0326	0325	AH12	TITLE	INCRASE TEST ADDR BY 00005	121139 @ 6 121054 1#ND 0326	0325	AH14	TR	00	8MU9904530	TRC	121164 0 11 121169 1JFI 0332	0331	AH20							
AH 14	TR	11	8MU9904530	TRC	121164 0 11 121169 1JFI 0332	0331	AH18	TITLE	8MU9904530	TRC	12	8MU9904530	TRC	121169 0 12 121174 1ATD 0333	AH22	AH 19	TR	00	8MU9904530	TRC	11	8MU9904530	TRC	121164 0 11 121169 1JFI 0332	0331	AH20
AH 15	8MU9904500	TAA	01	8MU9904650	SECTION I COMPLETE	121149 I 1 121174 11XD 0328	AH22	AH 21	TITLE	8MU9904670	PRINT TAB RESULTS IF 0916 ON	121174 1 6 121189 1/0I 0335	0334	AH25	TR	00	8MU9903000	REPEAT TAB SECTION 1 IF 0912 ON	121174 1 6 121189 1/0I 0335	0334	AH25					
AH 16	SEL	00	8MU9903000	REPEAT TAB SECTION 1 IF 0912 ON	121174 1 6 121189 1/0I 0335	0334	AH 22	TITLE	8MU9904670	PRINT TAB RESULTS IF 0916 ON	121174 1 6 121189 1/0I 0335	0334	AH25	TR	00	8MU9903000	REPEAT TAB SECTION 1 IF 0912 ON	121174 1 6 121189 1/0I 0335	0334	AH25						
AH 17	WR	00	8MU9931510	SECTION I COMPLETE	121159 R	129094 909D 0330	B219	AH 23	8MU9904650	TAB	02	8MU9902000	REPEAT TAB SECTION 1 IF 0912 ON	121179 1 2 120334 03LD 0336	AH26	AH 24	TR	00	8MU9903000	GO TO SECTION 2	121184 1	120764 076D 0337	022AF02			
AH 18	TR	00	8MU9904650	SECTION I COMPLETE	121159 R	129094 909D 0330	B219	AH 25	8MU9904670	RVS	01	8MU9903506001	SET TAB PRINT VARIABLE TR BACK	121189 U 1 122551 25VA 0338	A009	AH 26	TRSL	01	8MU9908000	GO TO TABULATION PRINT AREA	121194 1	122064 20WD 0339	A009			
AH 19	TRC	11	8MU9904530	TRC	12	8MU9904650	SECTION I COMPLETE	121164 0 11 121169 1JFI 0332	0331	AH 27	TITLE	8MU9904690	TR	00	8MU9904660	SECTION	121199 1	121179 117I 0341	AH23							
AH 20	TRC	12	8MU9904530	TRC	12	8MU9904650	SECTION I COMPLETE	121169 0 12 121174 1ATD 0333	0331	AH 28	TITLE	8MU9904690	TR	00	8MU9904660	SECTION	121209 7	122839 283I 0344	AH22							
AH 21	TITLE	06	8MU9904670	PRINT TAB RESULTS IF 0916 ON	121174 1 6 121189 1/0I 0335	0334	AH 29	TITLE	8MU9904750	LDA	00	8MU9904260	ERROR ADDRESS	121204 #	121094 109D 0343	AH02										
AH 22	TR	00	8MU9903000	REPEAT TAB SECTION 1 IF 0912 ON	121174 1 6 121189 1/0I 0335	0334	AH 30	TITLE	8MU9904750	LDA	00	8MU9910800	D INTO ASU 15	121234 B 15 122775 266E 0351	AH30	AH 31	UNL	00	8MU9910800	D INTO ASU 15	121244 I 1 121269 12WI 0352	023A105				
AH 23	TRB	02	8MU9902000	REPEAT TAB SECTION 1 IF 0912 ON	121174 1 6 121189 1/0I 0335	0334	AH 32	TITLE	8MU9931660	AB.	04	8MU9931660	AB.	121244 7	122845 2Y4E 0347	C02	AH 33	LDD	04	8MU9931660	AB.	12124 8 4 129168 9/6H 0346	C02			
AH 24	TRB	02	8MU9902000	REPEAT TAB SECTION 1 IF 0912 ON	121174 1 6 121189 1/0I 0335	0334	AH 34	TITLE	8MU9910920	UNL	04	8MU9910920	AB.	121224 7	4 122845 2Y4E 0348	A506	AH 35	UNL	07	8MU9910940	AB.	121229 7 8 122848 204H 0349	A506			
AH 25	TRB	02	8MU9902000	REPEAT TAB SECTION 1 IF 0912 ON	121174 1 6 121189 1/0I 0335	0334	AH 36	TITLE	8MU9910940	UNL	08	8MU9910940	AB.	121224 7	7 122854 2YED 0348	A506	AH 37	SET	15	8MU9910800	AB.	121234 B 15 122775 266E 0351	AH30			
AH 26	TRB	02	8MU9902000	REPEAT TAB SECTION 1 IF 0912 ON	121174 1 6 121189 1/0I 0335	0334	AH 38	TITLE	8MU9910800	LOD	15	8MU9910800	AB.	121244 I 1 121269 12WI 0352	023A105	AH 39	TA	01	8MU99C4850	BYPASS T-O IF 0911 ON	121244 I 1 121269 12WI 0352	023A105				
AH 27	TRB	02	8MU9902000	REPEAT TAB SECTION 1 IF 0912 ON	121174 1 6 121189 1/0I 0335	0334	AH 40	TITLE	8MU9910930	SEL	00	8MU9910930	AB.	121249 2	000500 0500 0315	0353	AH 41	SEL	00	8MU9910930	AB.	122834 283D 0353	A502			
AH 28	TRB	02	8MU9902000	REPEAT TAB SECTION 1 IF 0912 ON	121174 1 6 121189 1/0I 0335	0334	AH 42	TITLE	8MU9910930	WR	00	8MU9910930	AB.	121249 R	000500 0500 0315	0353	AH 42	WR	00	8MU9910930	AB.	122834 283D 0353	A502			

gscans/g0014589.png

AI 01	TITLE	LOC	OP	SD	ADDRESS	COLUMNS	REG
AI 02	AI 03 8M9904840 TRC	12	8M9904850				PGLIN SER REF
AI 03	AI 02 8M9904840 TRC	11	8M9904840				
AI 04	AI 04 8M9904850 TAE	05	8M9904850	BYPASS TABULATION IF 0915 ON	121269 1	5 121104 1/#D 0360	AH05
AI 05	AI 05 8M9904850 TAE	05	8M9904850	BYPASS TABULATION IF 0915 ON	121269 1	5 121104 1/#D 0360	AH05
AI 06	AI 06 8M99079406601	01	8M99079406601	SET VARIABLE RETRACE TR ADDR	121274 0	1 122056 20VF 0361	AN18
AI 07	AI 07 TSL	01	8M9907500	GO TO C BIT START TAB ADDR	121279 1	1 121734 17TD 0362	AL10
AI 08	AI 08 8M9926606001	01	8M9920170	SET MRTAB RETURN	121284 0	1 127641 76UA 0364	BS19
AI 09	AI 09 8M9904920 RCVS	01	8M9926606001	SET MRTAB RETURN	121289 1	1 125669 56WI 0365	BS19
AI 10	AI 10 TSL	01	8M99624206001	SET SEGTA B RETURN	121294 0	1 137531 X5TA 0367	DZ03
AI 11	AI 11 TSL	01	8M9961000		121299 1	1 137104 X1#D 0368	DW03
AI 12	AI 12 RCVS	01	8M99624206001	SET SEGTA B RETURN	121294 U	1 137531 X5TA 0367	DZ03
AI 13	AI 13 TSL	01	8M9961000		121299 1	1 137104 X1#D 0368	DW03
AI 14	AI 14 TITLE	00	8M9904280		121304 1	121104 110D 0370	AH05
AI 15	AI 15 8M9904940 TR	00	8M9904280		121304 0	0369 024	
AI 16	AI 16 TITLE	00	8M9905000 LDA	SECTION 2-PICKUP INTERROGATION	121309 #	122744 274D 0372	AR23
AI 17	AI 17 8M9905000 LDA	00	8M9910750 0000	SET INITIAL TEST ADDR	121309 *	121324 132D 0373	AI22
AI 18	AI 18 8M9905000 LDA	00	8M9910940	TEST ADDRESS	121319 7	7 122854 2YED 0376	AS06
AI 19	AI 19 TITLE	00	8M9910940		121324 U	1 000000 00#0 0377	AS06
AI 20	AI 20 8M9905020 UNL	07	8M9910940	TEST ADDRESS	121319 7	7 122854 2YED 0376	AS06
AI 21	AI 21 8M9905020 UNL	01	8M9910940	TEST ADDRESS	121324 U	1 000000 00#0 0377	AS06
AI 22	AI 22 8M9905020 UNL	01	8M9910940	TEST ADDRESS	121324 U	1 000000 00#0 0377	AS06
AI 23	AI 23 TITLE	01	8M9910940		121329 *	1 121339 13MI 0378	AI27
AI 24	AI 24 8M9905080 T2B	01	8M9910940	TEST FOR NO 1 BIT	121329	1 121339 13MI 0379	AI27
AI 25	AI 25 8M9905080 T2B	01	8M9910940	TEST FOR NO 1 BIT	121334	7 122854 2YDV 0380	AS06
AI 26	AI 26 TITLE	02	8M9905100		121334	7 122853 20VC 0383	AS06
AI 27	AI 27 8M9905080 T2B	02	8M9905100		121339 *	2 121349 13MI 0382	AI30
AI 28	AI 28 8M9905080 T2B	09	8M9910940	----P-	121339	2 121349 13MI 0382	AI30
AI 29	AI 29 TITLE	04	8M9905120		121349 *	3 121359 13EI 0385	AI33
AI 30	AI 30 8M9905120	04	8M9905120		121349	7 122852 20VB 0386	AS06
AI 31	AI 31 8M9905120	04	8M9905120		121349	9 122854 2YDV 0386	AS06
AI 32	AI 32 TITLE	08	8M9905140		121354	9 122853 20VC 0383	AS06
AI 33	AI 33 8M9905120	08	8M9905140		121354 *	4 121369 1T6I 0388	AI36
AI 34	AI 34 8M9905120	09	8M9910940	----P---	121354 *	4 121369 1T6I 0388	AI36
AI 35	AI 35 8M9905140	09	8M9910940	----P---	121354 *	5 121379 1TIXI 0401	AI39
AI 36	AI 36 8M9905140	09	8M9910940	----P---	121369	7 122850 20VE 0402	AS06
AI 37	AI 37 8M9905140	09	8M9910940	----P---	121374	7 122849 20UI 0405	AI39
AI 38	AI 38 8M9905160	09	8M9910940	----P---	121379 *	6 121389 1TIAI 0404	AI40

INDEX TAG OP NU AT OPERAND PROGRAM 8MU99 COMMENTS LOC OP SU ADDRESS PG LIN SER REF

AJ 01	8MU9905180	TZB	C	8MU9905220	121389 •	7 121404 1U6D 0407	0406	121389 C BIT	121414 #	121324 132D 0413	A122	AJ 07	8MU9905240	LDA	00	8MU9905050	CURRENT S-2 ERROR ADDR	121414 #	121324 132D 0413	0412						
AJ 06	8MU9905220	CMP	00	8MU9910940	TEST BIT BREAKDOWN FOR	-----		121404 4	7 122854 2YED 0410	121409 L	A506	AJ 06	8MU9905220	TR	00	8MU9905300	NO ERROR	-----	121409 L	121444 144D 0411	A514					
AJ 05	8MU9905220	CMP	07	8MU9910940	TEST BIT BREAKDOWN FOR	-----		121404 4	7 122854 2YED 0410	121444 144D 0411	A514	AJ 05	8MU9905220	CMP	07	8MU9910940	TEST BIT BREAKDOWN FOR	-----	121404 4	7 122854 2YED 0410	A510					
AJ 04	8MU9905220	UNL	09	8MU9910940-006	P-----			121394 7	9 122848 20UH 0408	121399 1	A508	AJ 04	8MU9905220	TR	00	8MU9905240			121394 7	9 122848 20UH 0408	A506					
AJ 03	8MU9905220	UNL	09	8MU9910940-006	P-----			121394 7	9 122848 20UH 0408	121399 1	A508	AJ 03	8MU9905220	UNL	09	8MU9910940-006	P-----		121394 7	9 122848 20UH 0408	A506					
AJ 02	8MU9905180	TZB	C	8MU9905220	121389 •	7 121404 1U6D 0407	0406	121389 •	7 121404 1U6D 0407	121399 C BIT	A505	AJ 02	8MU9905180	TZB	C	8MU9905220	121389 •	7 121404 1U6D 0407	0406	121389 •	7 121404 1U6D 0407	121399 C BIT	A505			
AJ 01	8MU9905180	TZB	C	8MU9905220	121389 •	7 121404 1U6D 0407	0406	121389 •	7 121404 1U6D 0407	121399 C BIT	A505	AJ 01	8MU9905180	TZB	C	8MU9905220	121389 •	7 121404 1U6D 0407	0406	121389 •	7 121404 1U6D 0407	121399 C BIT	A505			
AJ 05	8MU9905220	CMP	07	8MU9910940	TEST BIT BREAKDOWN FOR	-----		121404 4	7 122854 2YED 0410	121409 L	A506	AJ 05	8MU9905220	CMP	07	8MU9910940	TEST BIT BREAKDOWN FOR	-----	121404 4	7 122854 2YED 0410	A506					
AJ 06	8MU9905220	TR	00	8MU9905300	NO ERROR	-----		121409 L	121444 144D 0411	121444 144D 0411	A514	AJ 06	8MU9905220	TR	00	8MU9905300	NO ERROR	-----	121409 L	121444 144D 0411	A514					
AJ 05	8MU9905220	CMF	00	8MU9910830	TEST FOR 79999	SECTION 2 COMPLETE		121449 4	122792 279B 0420	121454 L	A520	AJ 16	8MU9905300	LDA	00	8MU9905430	SECTION 2 COMPLETE		121449 4	122792 279B 0420	A520					
AJ 04	8MU9905220	CMF	00	8MU9910830	TEST FOR 79999	SECTION 2 COMPLETE		121449 4	122792 279B 0420	121454 L	A520	AJ 22	8MU9905400	TAA	01	8MU9905550	SECTION 2 COMPLETE		121469 I	1 121494 142D 0425	A527					
AJ 03	8MU9905220	UNL	00	8MU9910900	N.B.			121419 7	4 122845 2Y4E 0416	121464 I	A504	AJ 19	8MU9905400	TR	00	8MU9905050	INCREASE TEST ADDR BY 00001		121459 E	1 121324 135D 0423	A122					
AJ 02	8MU9905400	TAA	01	8MU9905550	N.B.			121424 8	4 122917Z 9/7B 0415	121464 I	A504	AJ 18	8MU9905400	TR	00	8MU9905050	INCREASE TEST ADDR BY 00001		121459 E	1 121324 135D 0423	A122					
AJ 01	8MU9905400	TAA	01	8MU9905550	N.B.			121419 7	4 122839 283I 0414	121464 I	A504	AJ 17	8MU9905400	TITLE					121459 E	1 121324 135D 0423	A122					
AJ 27	8MU9905550	TAF	06	8MU9905000	PRINT TAB RESULTS IF 0916 ON	REPEAT SECTION 2 IF 0912 ON		121494 I	6 121509 1V-I 0432	121499 I	A530	AJ 27	8MU9905550	TAF	06	8MU9905000	PRINT TAB RESULTS IF 0916 ON	REPEAT SECTION 2 IF 0912 ON	121494 I	6 121509 1V-I 0432	A530					
AJ 28	8MU9905552	TAB	02	8MU9903000	REPEAT SECTION 2 IF 0912 ON	GO TO SECTION 3		121499 I	2 120764 070D 0433	120774 077D 0434	A502	AJ 29	8MU9905552	TR	00	8MU9903080	GO TO SECTION 3		121504 I	120774 077D 0434	A504					
AJ 29	8MU9905552	TSL	01	8MU99056001	SET TAB PRINT VARIABLE BACK	GO TO TABULATION PRINT AREA		121509 U	1 122551 25VA 0435	122064 20WD 0436	A509	AJ 31	8MU9905570	RCVS	01	8MU99083506001	SET TAB PRINT VARIABLE BACK	GO TO TABULATION PRINT AREA	121514 I	1 122551 25VA 0435	A509					
AJ 31	8MU9905570	RCVS	01	8MU99083506001	SET TAB PRINT VARIABLE BACK	GO TO TABULATION PRINT AREA		121514 I	1 122551 25VA 0435	122064 20WD 0436	A509	AJ 32	8MU9905570	TITLE					121514 I	1 122551 25VA 0435	A509					
AJ 32	8MU9905570	TITLE						121519 I	121499 149I 0438	121499 149I 0438	A528	AJ 33	8MU9905570	TITLE					121524 H	2 122686 260F 0439	A503					
AJ 33	8MU9905570	TR	00	8MU9905552	GO TO SECTION 3			121524 H	2 122686 260F 0439	121524 H	A503	AJ 34	8MU9906050	RAD	02	8MU9910530	5		121524 H	2 122686 260F 0439	A503					
AJ 34	8MU9906050	RAD	02	8MU9910530	5			121524 H	2 122686 260F 0439	121524 H	A503	AJ 35	8MU9904060	TITLE					121524 H	2 122686 260F 0439	A503					
AJ 35	8MU9904060	LDA	00	8MU9910520	DECRASE CK ADDR BY 4	SET CHK ADDR		121534 P	122685 268E 0442	121534 P	A502	AJ 36	8MU9904060	LDA	00	8MU9910520	DECRASE CK ADDR BY 4	SET CHK ADDR	121534 *	122685 268E 0442	A502					
AJ 36	8MU9904060	LDA	00	8MU9910520	DECRASE CK ADDR BY 4	SET CHK ADDR		121534 *	122685 268E 0442	121534 *	A502	AJ 37	8MU9904060	SUB	00	8MU9910520	DECRASE CK ADDR BY 4	SET CHK ADDR	121539 *	122685 268E 0442	A502					
AJ 37	8MU9904060	SUB	00	8MU9910520	DECRASE CK ADDR BY 4	SET CHK ADDR		121539 *	122685 268E 0442	121539 *	A502	AJ 38	8MU9904060	ULB	00	8MU9910520	DECRASE CK ADDR BY 4	SET CHK ADDR	121539 *	122685 268E 0442	A502					
AJ 38	8MU9904060	ULB	00	8MU9910520	DECRASE CK ADDR BY 4	SET CHK ADDR		121539 *	122685 268E 0442	121539 *	A502	AJ 39	8MU9904060	UNL	07	8MU9910520	DECRASE CK ADDR BY 4	SET CHK ADDR	121544 7	7 122854 2YED 0444	A506					
AJ 39	8MU9904060	UNL	07	8MU9910520	DECRASE CK ADDR BY 4	SET CHK ADDR		121544 7	7 122854 2YED 0444	121544 7	A506	AJ 40	8MU9906200	RCVS	01	8MU99000	SECTION 1 - DROP INTERROGATION	CHECK ADDRESS	121549 U	1 000000 00#0 0446	A505					
AJ 40	8MU9906200	RCVS	01	8MU99000	SECTION 1 - DROP INTERROGATION	CHECK ADDRESS		121549 U	1 000000 00#0 0446	121549 U	A505	AJ 41	8MU9906200	TITLE					121549 U	1 000000 00#0 0446	A505					

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM BMU99	-	-	COMMENTS	LOC OP SU ADDRESSES	PGLIN SER REF
AK_01	TITLE	TZB	01	SMU9906240	TEST FOR NO 1 BIT	121554 •	1 121564 15WD 0448	121559 1 121569 156I 0449	121564 7 8 122854 205D 0450	AK04 AK06
AK_02	TITLE	TZB	01	SMU9906240	TEST FOR NO 1 BIT	121554 •	1 121564 15WD 0448	121559 1 121569 156I 0449	121564 7 8 122854 205D 0450	AK04 AK06
AK_03	TITLE	TZB	01	SMU9906240	TEST FOR NO 1 BIT	121554 •	1 121564 15WD 0448	121559 1 121569 156I 0449	121564 7 8 122854 205D 0450	AK04 AK06
AK_04	TITLE	TZB	02	SMU9906240	TEST FOR NO 1 BIT	121554 •	1 121564 15WD 0448	121559 1 121569 156I 0449	121564 7 8 122854 205D 0450	AK04 AK06
AK_05	TITLE	TZB	02	SMU9906280	TEST FOR NO 2 BIT	121569 •	2 121579 15PI 0452	121574 1 121584 158D 0453	121579 7 8 122853 205C 0454	AK05 AK11
AK_06	TITLE	TZB	02	SMU9906280	TEST FOR NO 2 BIT	121569 •	2 121579 15PI 0452	121574 1 121584 158D 0453	121579 7 8 122853 205C 0454	AK08 AK10
AK_07	TITLE	TZB	02	SMU9906280	TEST FOR NO 2 BIT	121569 •	2 121579 15PI 0452	121574 1 121584 158D 0453	121579 7 8 122853 205C 0454	AK08 AK10
AK_08	TITLE	TZB	02	SMU9906280	TEST FOR NO 2 BIT	121569 •	2 121579 15PI 0452	121574 1 121584 158D 0453	121579 7 8 122853 205C 0454	AK08 AK10
AK_09	TITLE	TZB	04	SMU9906320	TEST FOR NO 4 BIT	121584 •	3 121594 151D 0456	121589 1 121599 159I 0457	121594 7 8 122852 205B 0458	AK14 AK12
AK_10	TITLE	TZB	04	SMU9906320	TEST FOR NO 4 BIT	121584 •	3 121594 151D 0456	121589 1 121599 159I 0457	121594 7 8 122852 205B 0458	AK14 AK12
AK_11	TITLE	TZB	04	SMU9906320	TEST FOR NO 4 BIT	121584 •	3 121594 151D 0456	121589 1 121599 159I 0457	121594 7 8 122852 205B 0458	AK14 AK12
AK_12	TITLE	TZB	08	SMU9910940-002	----D----	121594 •	4 121609 1W0I 0460	121604 1 121614 161D 0461	121609 7 8 122851 205A 0462	AK16 AK15
AK_13	TITLE	TZB	08	SMU9910940-003	----D----	121599 •	4 121609 1W0I 0460	121604 1 121614 161D 0461	121609 7 8 122851 205A 0462	AK16 AK15
AK_14	TITLE	TZB	08	SMU9910940-003	----D----	121599 •	4 121609 1W0I 0460	121604 1 121614 161D 0461	121609 7 8 122851 205A 0462	AK16 AK15
AK_15	TITLE	TZB	08	SMU9910940-003	----D----	121599 •	4 121609 1W0I 0460	121604 1 121614 161D 0461	121609 7 8 122851 205A 0462	AK16 AK15
AK_16	TITLE	TZB	08	SMU9910940-003	----D----	121599 •	4 121609 1W0I 0460	121604 1 121614 161D 0461	121609 7 8 122851 205A 0462	AK16 AK15
AK_17	TITLE	TZB	A	SMU9906400	TEST FOR NO A BIT	121614 •	5 121624 1WSD 0464	121619 1 121629 162I 0465	121624 7 8 122850 2056 0466	AK21 AK22
AK_18	TITLE	TZB	A	SMU9906400	TEST FOR NO A BIT	121614 •	5 121624 1WSD 0464	121619 1 121629 162I 0465	121624 7 8 122850 2056 0466	AK21 AK22
AK_19	TITLE	TZB	A	SMU9906400	TEST FOR NO A BIT	121614 •	5 121624 1WSD 0464	121619 1 121629 162I 0465	121624 7 8 122850 2056 0466	AK21 AK22
AK_20	TITLE	TZB	A	SMU9906400	TEST FOR NO A BIT	121614 •	5 121624 1WSD 0464	121619 1 121629 162I 0465	121624 7 8 122850 2056 0466	AK21 AK22
AK_21	TITLE	TZB	B	SMU9906440	TEST FOR NO B BIT	121629 •	6 121639 1WLI 0468	121634 1 121644 164D 0469	121639 7 8 122849 204I 0470	AK24 AK23
AK_22	TITLE	TZB	B	SMU9906440	TEST FOR NO B BIT	121629 •	6 121639 1WLI 0468	121634 1 121644 164D 0469	121639 7 8 122849 204I 0470	AK24 AK23
AK_23	TITLE	TZB	B	SMU9906440	TEST FOR NO B BIT	121629 •	6 121639 1WLI 0468	121634 1 121644 164D 0469	121639 7 8 122849 204I 0470	AK24 AK23
AK_24	TITLE	TZB	B	SMU9906440	TEST FOR NO B BIT	121629 •	6 121639 1WLI 0468	121634 1 121644 164D 0469	121639 7 8 122849 204I 0470	AK24 AK23
AK_25	TITLE	TZB	C	SMU9906480	TEST FOR NO C BIT	121644 •	7 121654 1WED 0472	121644 1 121654 166D 0473	121644 7 8 122848 204H 0474	AK28 AK27
AK_26	TITLE	TZB	C	SMU9906480	TEST FOR NO C BIT	121644 •	7 121654 1WED 0472	121644 1 121654 166D 0473	121644 7 8 122848 204H 0474	AK28 AK27
AK_27	TITLE	TZB	C	SMU9906480	TEST FOR NO C BIT	121644 •	7 121654 1WED 0472	121644 1 121654 166D 0473	121644 7 8 122848 204H 0474	AK28 AK27
AK_28	TITLE	TZB	C	SMU9906480	TEST FOR NO C BIT	121644 •	7 121654 1WED 0472	121644 1 121654 166D 0473	121644 7 8 122848 204H 0474	AK28 AK27
AK_29	TITLE	TZB	D	SMU9910940-006	-----	121654 •	8 122848 204H 0474	121654 1 121659 169I 0475	121654 7 8 122848 204H 0474	AK30 AK29
AK_30	TITLE	TZB	D	SMU9910940-006	-----	121654 •	8 122848 204H 0474	121654 1 121659 169I 0475	121654 7 8 122848 204H 0474	AK30 AK29
AK_31	TITLE	TZB	D	SMU9910940-006	-----	121654 •	8 122848 204H 0474	121654 1 121659 169I 0475	121654 7 8 122848 204H 0474	AK30 AK29
AK_32	TITLE	TZB	D	SMU9910940-006	-----	121654 •	8 122848 204H 0474	121654 1 121659 169I 0475	121654 7 8 122848 204H 0474	AK30 AK29
AK_33	TITLE	TZB	D	SMU9910940-006	-----	121654 •	8 122848 204H 0474	121654 1 121659 169I 0475	121654 7 8 122848 204H 0474	AK30 AK29
AK_34	TITLE	TZB	D	SMU9910940-006	-----	121654 •	8 122848 204H 0474	121654 1 121659 169I 0475	121654 7 8 122848 204H 0474	AK30 AK29
AK_35	TITLE	TZB	D	SMU9910940-006	-----	121654 •	8 122848 204H 0474	121654 1 121659 169I 0475	121654 7 8 122848 204H 0474	AK30 AK29
AK_36	TITLE	TZB	D	SMU9910940-006	-----	121654 •	8 122848 204H 0474	121654 1 121659 169I 0475	121654 7 8 122848 204H 0474	AK30 AK29
AK_37	TITLE	TZB	D	SMU9910940-006	-----	121654 •	8 122848 204H 0474	121654 1 121659 169I 0475	121654 7 8 122848 204H 0474	AK30 AK29

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INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8M99	-	COMMENTS	LOC - OP SU	ADDRESS	PG LIN SER REF
AL 01	8M9907000	LDA	00	8M9906200	CURRENT S-I ERROR ADDR	121699 #	121549 1541 0484	AJ41		
AL 02	8M9907000	UNL	00	8M9910900	INTO T-O	121704 7	122839 2831 0485	AS02		
AL 03	LOD	C4	8M9931660	.AB.		121709 8	4 129168 9/6H 0486	CAB02		
AL 04	UNL	04	8M9910920			121719 U	4 122845 2Y4 0487	AS04		
AL 05	RCLS	01	8M99102508001			121714 7	1 122616 26/F 0488	AQ28		
AL 06	TSL	01	8M9910000			121724 1	1 122559 25VI 0489	Q31A10		
AL 07	TITLE		8M9906750			121729 1	121679 1671 0501	AK34		
AL 08	TITLE		TR 00			121729 1	121679 1671 0501	AK34		
AL 09	TITLE		8M9907500	INITIAL BIT PLANE TAB ADDR SET		121734 8	4 123102 3/08 0503	AS37		
AL 10	8M9907500	LOD	04	8M9911300	C BIT TAB START ADDRESS	121734 8	4 123106 3/0F 0506	AS38		
AL 11	TR 00		8M9907570			121739 1	121799 1791 0504	AL30		
AL 12	TITLE		8M9911310	B BIT TAB START ADDRESS		121744 8	4 123106 3/0F 0506	AS38		
AL 13	8M9907510	LOD	04	8M9911310	B BIT TAB START ADDRESS	121744 8	4 123106 3/0F 0506	AS38		
AL 14	TR 00		8M9907570			121749 1	121799 1791 0507	AL30		
AL 15	TITLE		8M9911320	A BIT TAB START ADDRESS		121754 8	4 123110 3/16 0509	AS39		
AL 16	8M9907520	LOD	04	8M9911320	A BIT TAB START ADDRESS	121754 8	4 123110 3/16 0509	AS39		
AL 17	TR 00		8M9907570			121759 1	121799 1791 0510	AL30		
AL 18	TITLE		8M9911330	8 BIT TAB START ADDRESS		121764 8	4 123114 3/10 0512	AS40		
AL 19	8M9907530	LOD	04	8M9911330	8 BIT TAB START ADDRESS	121764 8	4 123114 3/10 0512	AS40		
AL 20	TR 00		8M9907570			121769 1	121799 1791 0513	AL30		
AL 21	TITLE		8M9911340	4 BIT TAB START ADDRESS		121774 8	4 123118 3/1H 0515	AS41		
AL 22	8M9907540	LOD	04	8M9911340	4 BIT TAB START ADDRESS	121774 8	4 123118 3/1H 0515	AS41		
AL 23	TR 00		8M9907570			121779 1	121799 1791 0516	AL30		
AL 24	TITLE		8M9911350	2 BIT TAB START ADDRESS		121784 8	4 123122 3/2B 0518	AS42		
AL 25	8M9907550	LOD	04	8M9911350	2 BIT TAB START ADDRESS	121784 8	4 123122 3/2B 0518	AS42		
AL 26	TR 00		8M9907570			121789 1	121799 1791 0519	AL30		
AL 27	TITLE		8M9911360	1 BIT TAB START ADDRESS		121794 8	4 123126 3/2F 0521	AS43		
AL 28	8M9907560	LOD	04	8M9911360	1 BIT TAB START ADDRESS	121794 8	4 123126 3/2F 0521	AS43		
AL 29	TITLE		8M9907570	SET START BIT TAB ADDRESS		121799 7	4 122034 2#3D 0523	AN10		
AL 30	8M9907570	UNL	04	8M9907570	SET START BIT TAB ADDRESS	121799 7	4 122034 2#3D 0523	AN10		
AL 31	TITLE		DETERMINE TAB INCREMENT							
AL 32	SET 13		600006	121804 B 13 00006 06#6 0525						
AL 33	SET 00		600001	121809 B 00001 0526						
AL 34	LDD 00		600001	121814 8 122831 0527						
AL 35	LOD 00		600001	121814 8 122831 0527						
AL 36	TR 00		8M9911000-009	UNITS POSITION OF ADDR		121819 4	122872 2878 0528	AS14		
AL 37	CMR 00		8M9907740	TEST FOR 0		121824 L	122877 2876 0530	AS14		
AL 38	TR 00		8M9907750	TEST FOR 5		121824 L	122877 2876 0530	AS14		
AL 39	TITLE		121839 4	122873 287C 0533		121844 L	121944 194D 0534	033A25		
AL 40	CMR 00		8M9911000-008	TEST FOR 1		121849 4	122878 287H 0535	AS14		
AL 41	TR 00		8M9907730	TEST FOR 6		121849 4	122878 287H 0535	AS14		

INDEX	TAG	CP	NU AT	OPERAND	PROGRAM 8M999	- -	COMMENTS	LOC OP SU	ADDRESS	PGLIN SER REF		
AM 01		TRC	00	8M99907760			121854 L	121974 197D 0536	AM33			
AM 02		CMP	00	8M99911000-007	TEST FOR 2		121859 4	122874 287D 0538	AS14			
AM 03		CMP	00	8M99907720			121864 L	121934 193D 0539	AM22			
AM 04		TRC	00	8M99911000-002	TEST FOR 7		121869 4	122879 287I 0540	AS14			
AM 05		CMP	00	8M99907770			121874 L	121984 198D 0541	AM36			
AM 06		TRC	00	8M99911000-001	TEST FOR 8		121874 L	121984 198D 0541	AM36			
AM 07		TITLE		8M99907780			121879 4	122875 287E 0543	AS14			
AM 08		CMP	00	8M99911000-006	TEST FOR 3		121884 L	121924 192D 0544	AM19			
AM 09		TRC	00	8M99907710			121889 4	122880 288E 0545	AS14			
AM 10		CMP	00	8M99911000-001	TEST FOR 9		121894 L	121994 199D 0546	AM39			
AM 11		TRC	00	8M99907780			121894 L	121994 199D 0546	AM39			
AM 12		TITLE		8M99911000-C05	TEST FOR 4		121899 4	122876 287F 0548	AS14			
AM 13		CMP	00	8M99907700			121904 L	121914 191D 0549	034AM16			
AM 14		TRC	00	8M99907790	MUST BE CHAR 9		121909 1	122004 200D 0550	AS14			
AM 15		TRC	00	8M99907790			121914 8	13 122679 2FXI 0551	AS14			
AM 16		8M99907700	L0D	13	8M99910380	000640	CHAR 3	121924 8	13 122673 2FXC 0554	AS14		
AM 17		8M99907710	L0D	13	8M99910380	000640	CHAR 3	121929 1	122009 2001 0555	AS14		
AM 18		8M99907720	L0D	13	8M99910370	000560	CHAR 2	121934 8	13 122667 2FWG 0557	AS14		
AM 19		8M99907730	L0D	13	8M99910360	000480	CHAR 1	121944 8	13 122661 2FWA 0560	AS14		
AM 20		8M99907740	L0D	13	8M99910350	000400	CHAR 0	121954 8	13 122655 2FVE 0563	AS14		
AM 21		TITLE		8M99907750	L0D	13	8M99910340	000320	CHAR 5	121964 8	13 122649 2FUI 0565	AS14
AM 22		8M99907760	L0D	13	8M99910330	000240	CHAR 6	121969 1	122009 2001 0566	AS14		
AM 23		8M99907770	L0D	13	8M99910320	000160	CHAR 7	121984 8	13 122637 2FTG 0571	AS14		
AM 24		TITLE		8M99907780	L0D	13	8M99910310	000080	CHAR 8	121994 8	13 122631 2FTA 0574	AS14
AM 25		8M99907790	L0D	13	8M99907800	000000		121999 1	122009 2001 0575	AS14		
AM 26		8M99907800	L0D	13	8M99907800	000000		121999 1	122009 2001 0575	AS14		
AM 27		TITLE		8M99907810	L0D	13	8M99907800	000000		121949 1	122009 2001 0561	AS14
AM 28		8M99907820	L0D	13	8M99907800	000000		121944 8	13 122661 2FWA 0560	AS14		
AM 29		8M99907830	L0D	13	8M99907800	000000		121959 1	122009 2001 0564	AS14		
AM 30		8M99907840	L0D	13	8M99907800	000000		121964 8	13 122649 2FUI 0565	AS14		
AM 31		8M99907850	L0D	13	8M99907800	000000		121969 1	122009 2001 0566	AS14		
AM 32		TITLE		8M99907860	L0D	13	8M99907800	000000		121964 8	13 122649 2FUI 0565	AS14
AM 33		8M99907870	L0D	13	8M99907800	000000		121974 8	13 122643 2FUC 0568	AS14		
AM 34		8M99907880	L0D	13	8M99907800	000000		121979 1	122009 2001 0569	AS14		
AM 35		TITLE		8M99907890	L0D	13	8M99907800	000000		121984 8	13 122637 2FTG 0571	AS14
AM 36		8M9990770	L0D	13	8M99907800	000000		121989 1	122009 2001 0572	AS14		
AM 37		8M9990771	L0D	13	8M99907800	000000		121989 1	122009 2001 0572	AS14		
AM 38		8M9990772	L0D	13	8M99907800	000000		121994 8	13 122631 2FTA 0574	AS14		
AM 39		8M9990773	L0D	13	8M99907800	000000		121999 1	122009 2001 0575	AS14		
AM 40		8M9990774	L0D	13	8M99907800	000000		121999 1	122009 2001 0575	AS14		

INDEX TAG OP NU AT OPERAND PROGRAM BMU99 COMMENTS LOC OP SU ADDRESS PGLIN SER REF

AN 01	TITLE	BMU9907790	LOD	13	BMU9910300	000000	CHAR 9	122004 8 13 122625 2FSE 0577	A031	0576	AN 02	BMU9907790	LOD	13	BMU9910300	000000	CHAR 9	122004 8 13 122625 2FSE 0577	A031	0576
AN 03	TITLE	BMU9907800	TR	00	BMU9907900	TEST ASU 15 FOR D	122009 4 15 122775 2F6E 0578	AR30	0578	AN 04	BMU9907800	TR	00	BMU9907900	TEST ASU 15 FOR D	122014 L 122024 202D 0579	AN07	0578		
AN 05	TITLE	BMU9907900	ADD	13	BMU9910530	ADD 5 TO SETUP FOR PICK	122019 G 13 122686 2F7F 0580	AR03	0580	AN 06	BMU9907900	AAM	13	BMU9907920	ACTUAL TABULATION AREA	122024 E 13 122034 26TD 0582	AN10	0582		
AN 07	TITLE	BMU9907900	AAM	13	BMU9907920	ADD TAB INCREMENT TO VAR LODER	122024 E 13 122034 26TD 0582	AN10	0582	AN 08	BMU9907900	SET	13	BMU9907920	VARIABLE TAB COUNT LOADER	122029 B 13 000005 06#0 0584	0583	0583		
AN 09	TITLE	BMU9907920	LOD	13	BMU9907920	VARIABLE TAB COUNT LOADER	122034 8 13 000000 06#0 0585	0584	0583	AN 10	BMU9907920	LOD	13	BMU9910510	INCREASE COUNT BY 1	122039 G 13 122682 2F7B 0586	AN02	0584		
AN 11	TITLE	BMU9907920	ADD	13	BMU9910510	INCREASE COUNT BY 1	122039 6 13 122682 2F7B 0586	AN02	0583	AN 12	BMU9907920	LOD	04	BMU9907930	SET REPLACER	122044 8 4 122034 2#3D 0588	AN10	0587		
AN 13	TITLE	BMU9907920	UNL	13	BMU9907930	REPLACE COUNT IN TABLE	122054 7 13 000000 06#0 0601	0600	0600	AN 14	BMU9907920	LOD	04	BMU9907930	SET REPLACER	122049 7 4 122054 2#5D 0589	AN16	0587		
AN 15	TITLE	BMU9907930	UNL	13	BMU990000	REPLACE COUNT IN TABLE	122054 7 13 000000 06#0 0601	0600	0600	AN 16	BMU9907930	UNL	13	BMU990000	REPLACE COUNT IN TABLE	122054 7 13 000000 06#0 0601	0600	0600		
AN 17	TITLE	BMU9907940	TR	00	BMU9904920	VARIABLE RETRACE TRANSFER	122059 1 121284 128D 0603	A109	0602	AN 18	BMU9907940	TR	00	BMU9904920	VARIABLE RETRACE TRANSFER	122059 1 121284 128D 0603	A109	0602		
AN 19	TITLE	BMU9908000	SEL	00	BMU990500	TEST TABLE FOR ERRORS	122064 2 000500 0500 0605	0604	0604	AN 20	BMU9908000	SEL	00	BMU990500	TEST TABLE FOR ERRORS	122064 2 000500 0500 0605	0604	0604		
AN 21	TITLE	BMU9910570	IO	10	BMU990006	SET 13	122074 B 13 000006 06#6 0608	AR08	0606	AN 22	BMU9910570	RAD	02	BMU9910570	SET 13	122074 B 13 000006 06#6 0608	AR08	0606		
AN 23	TITLE	BMU9910570	LOD	13	BMU9910310	000080	122079 8 13 122631 2FTA 0609	AR08	0606	AN 24	BMU9910570	LOD	13	BMU9910310	000080	122079 8 13 122631 2FTA 0609	AR08	0606		
AN 25	TITLE	BMU9911380	UNL	04	BMU9911380	SET INITIAL TAB LINE CMP ADDR	122084 8 4 123130 3/36 0611	0610	0610	AN 26	BMU9911380	LOD	04	BMU9911380	SET INITIAL TAB LINE CMP ADDR	122084 8 4 123130 3/36 0611	0610	0610		
AN 27	TITLE	BMU9911380	UNL	04	BMU9911380	SET INITIAL TAB LINE CMP ADDR	122089 7 4 122104 2/0D 0612	AN54	AN 28	BMU9911380	TITLE	-	-	-	-	122104 7 4 122104 2/0D 0612	AN54	AN 28		
AN 29	TITLE	BMU9908046	TAE	05	BMU9908330	BYPASS-NO ERR-PRINT IF 0915 ON	122134 I 5 122544 2VUD 0623	A066	0622	AN 30	BMU9908046	TAE	05	BMU9908150	BYPASS-NO ERR-PRINT IF 0915 ON	122134 I 5 122544 2VUD 0624	A064	0622		
AN 31	TITLE	BMU9908030	CMP	00	BMU990840	DEFINITE ERROR-PRINT TABLE	122144 1 122144 2I4D 0621	AN41	AN 32	BMU9908030	CMP	00	BMU990840	DEFINITE ERROR-PRINT TABLE	122144 1 122144 2I4D 0621	AN41	AN 32			
AN 33	TITLE	BMU9908040	SUB	02	BMU9910510	DECREATE CTR BY 1	122129 I 122129 1 122129 1 122129 1	AN41	AN 34	BMU9908040	SUB	02	BMU9908050	NO ERRORS MADE	122124 N 2 122134 2I1D 0620	AN38	AN 34			
AN 35	TITLE	BMU9908046	TRZ	02	BMU9908046	DEFINITE ERROR-PRINT TABLE	122124 N 2 122134 2I1D 0620	AN38	AN 36	BMU9908040	TR	00	BMU9908050	DEFINITE ERROR-PRINT TABLE	122129 I 122129 1 122129 1	AN41	AN 36			
AN 37	TITLE	BMU9908046	TR	00	BMU9908150	DEFINITE ERROR-PRINT TABLE	122129 I 122129 1 122129 1	AN41	AN 38	BMU9908046	TR	00	BMU9908150	DEFINITE ERROR-PRINT TABLE	122134 I 5 122544 2VUD 0624	A064	AN 38			
AN 39	TITLE	BMU9908046	TR	00	BMU9908150	DEFINITE ERROR-PRINT TABLE	122134 I 5 122544 2VUD 0624	A064	AN 40	BMU9908050	AAM	13	BMU9908030	INC R CMP ADDR BY 000080	122144 E 13 122124 2A#D 0626	0625	0625			
AN 41	TITLE	BMU9908050	AAM	13	BMU9908030	INC R CMP ADDR BY 000080	122144 E 13 122124 2A#D 0626	0625	0625	AN 42	BMU9908050	AAM	13	BMU9908030	INC R CMP ADDR BY 000080	122144 E 13 122124 2A#D 0626	0625	0625		

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM BMU99	-	-	COMMENTS	LOC OP SU	ADDRESS	PGLIN SER REF
AO 02		TR	00	8MU9908030					122149 1	122104 210D	0627 AN31
AO 03		TR	00	8MU9912370	CHAR ERROR LINE PRINT SELECT				122154 4	123572 357B	0629 A006
AO 04		TR	00	8MU9908075	TEST CHAR 9 LINE FOR ALL ZERODES				122159 L	122169 216I	0630 A006
AO 05		TR	00	8MU9908200	BYPASS PRINT - IF EQUAL				122164 1	122374 237D	0631 AP10
AO 06		TR	00	8MU9912440	TEST CHAR 8 LINE				122169 4	123652 365B	0632 A030
AO 07		TR	00	8MU9908080					122174 L	122184 218D	0633 A009
AO 08		TR	00	8MU9908204					122179 1	122384 238D	0634 AP12
AO 09		TR	00	8MU9912490	TEST CHAR 7 LINE				122184 4	123732 373B	0635 A040
AO 10		TR	00	8MU9908085					122189 L	122199 219I	0636 A012
AO 11		TR	00	8MU9908210					122194 1	122394 239C	0637 AP14
AO 12		TR	00	8MU9912540	TEST CHAR 6 LINE				122199 4	123812 381B	0638 A050
AO 13		TR	00	8MU9908090					122204 L	122214 221D	0639 039A015
AO 14		TR	00	8MU9908214					122209 1	122404 240D	0640 AP16
AO 15		TR	00	8MU9912590	TEST CHAR 5 LINE				122214 4	123892 389B	0641 AV10
AO 16		TR	00	8MU9908100					122219 L	122229 222I	0642 A018
AO 17		TR	00	8MU9908220					122224 1	122414 241D	0643 API8
AO 18		TR	00	8MU9912840	TEST CHAR 4 LINE				122229 4	124252 429B	0644 AV10
AO 19		TR	00	8MU9908110					122234 L	122244 224D	0645 A021
AO 20		TR	00	8MU9908120					122239 1	122424 242D	0646 AP21
AO 21		TR	00	8MU9912790	TEST CHAR 3 LINE				122244 4	124212 421B	0647 AV50
AO 22		TR	00	8MU9908130					122249 L	122259 225I	0648 A024
AO 23		TR	00	8MU9908230					122254 1	122434 243D	0649 AP23
AO 24		TR	00	8MU991274C	TEST CHAR 2 LINE				122259 4	124132 413B	0650 AV40
AO 25		TR	00	8MU9908140					122264 L	122274 227D	0651 040A027
AO 26		TR	00	8MU9908240					122269 1	122444 244D	0652 AP25
AO 27		TR	00	8MU9912690	TEST CHAR 1 LINE				122274 4	124052 405B	0653 AV30
AO 28		TR	00	8MU9908140					122279 L	122289 228I	0654 A030
AO 29		TR	00	8MU9908250					122284 1	122454 245D	0655 AP27
AO 30		TR	00	8MU9912640	TEST CHAR 0 LINE				122289 4	123972 397B	0656 AV20
AO 31		TR	00	8MU9908270					122294 L	122469 246I	0657 A030
AO 32		TR	00	8MU9908260					122299 1	122464 246D	0658 AP29
AO 33		TR	00	8MU9908150	PRINT TABULATED RESULTS				122314 1	122544 254D	0662 A006
AO 34		TR	00	8MU9912060	BLANK SPACER				122304 R	123210 3216	0660 A118
AO 35		TR	00	8MU9912060	NO ERRORS				122309 R	123225 322E	0661 A123
AO 36		TR	00	8MU9908160	CONTINUE TAB PRINT IF 0916 ON				122319 R	123225 322E	0664 A123
AO 37		TR	00	8MU9908160	BLANK SPACER				122329 R	123180 318E	0665 041A13
AO 38		TR	00	8MU9912060	BLANK SPACER				122334 I	122334 21MD	0667 A123
AO 39		TR	00	8MU9912020	0000--79599 BP 00-70				122334 I	122334 21MD	0666 A123
AO 40		TR	00	8MU9912060	BLANK SPACER				122325 322E	0666 A123	
AO 41		TR	00	8MU9908170					122334 I	122334 21MD	0667 A123

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM	8MU99	-	-	COMMENTS	LOC OF :SU	ADDRESS	PLIN SER REF
AP 01		TR	00	8MU9908330					122339 I	122544 2540 0668	AQ06	
AP 02		TR	00	8MU9908204	BP -C- -B- -A- -8- -4- -2- -1-	122344 R	123235 323E 0670	0669				
AP 03	8MU9908170	WR	00	8MU9912100	BP -C- -B- -A- -8- -4- -2- -1-	122344 R	123235 323E 0670	0669				
AP 04		WR	00	8MU9912150	DROP PICK	122349 R	123320 3326 0671	AT28				
AP 05		WR	00	8MU9912250	CHR-----	122354 R	123405 340E 0672	AT27				
AP 06		TAF	06	8MU9908070	CONTINUE TAB PRINT	122359 I	122154 2/ND 0673	AU01				
AP 07		WR	00	8MU9912060	BLANK SPACER	122364 R	123225 322E 0674	AT23				
AP 08		TR	00	8MU9908330		122369 I	122544 2540 0675	AQ06				
AP 09	8MU9908200	WR	00	8MU99123006001	9- 00 01 02 03 04 05 06	122374 R	12345 349E 0677	AU12				
AP 10		TR	00	8MU9908075		122379 I	122169 2161 0678	AQ06				
AP 11		TR	00	8MU9908210	TR	00	8MU99124506001	7- 14 15 16 17 18 19 20	122394 R	123655 373E 0681	AU32	
AP 12		TR	00	8MU9908204	TR	00	8MU9908085		122399 I	122199 2191 0682	AO12	
AP 13		TR	00	8MU9908080		122384 R	123575 357E 0679	042AU22				
AP 14	8MU9908210	WR	00	8MU99124006001	8- 07 08 09 10 11 12 13	122384 R	122184 218D 0680	AQ09				
AP 15		TR	00	8MU9908210	TR	00	8MU9908085		122399 I	122199 2191 0682	AU32	
AP 16	8MU9908214	WR	00	8MU99125006001	6- 21 22 23 24 25 26 27	122404 R	123735 373E 0683	AU42				
AP 17		TR	00	8MU9908090		122409 I	122214 221D 0684	AU15				
AP 18	8MU9908220	WR	00	8MU99125506001	5- 28 29 30 31 32 33 34	122414 R	123815 381E 0685	AU02				
AP 19		TR	00	8MU9908100		122419 I	122229 222I 0686	AU02				
AP 20		TR	00	8MU99128006001	4- 36 37 38 39 40 41 42	122424 R	124215 421E 0688	AV52				
AP 21	8MU9908224	WR	00	8MU9912806001		122424 R	122244 224D 0689	AU02				
AP 22		TR	00	8MU9908110		122429 I	122249 222I 0689	AV52				
AP 23	8MU9908230	WR	00	8MU99127506001	3- 43 44 45 46 47 48 49	122434 R	124135 413E 0700	AV42				
AP 24		TR	00	8MU9908120		122439 I	122259 225I 0701	AV42				
AP 25	8MU9908240	WR	00	8MU99127006001	2- 50 51 52 53 54 55 56	122444 R	124055 405E 0702	043AV32				
AP 26		TR	00	8MU9908130		122449 I	122274 227D 0703	A027				
AP 27	8MU9908250	WR	00	8MU99126506001	1- 57 58 59 60 61 62 63	122454 R	123975 397E 0704	AV22				
AP 28		TR	00	8MU9908140		122459 I	122289 228I 0705	A030				
AP 29	8MU9908260	WR	00	8MU99126006001	0- 64 65 66 67 68 69 70	122464 R	123895 389E 0706	AV12				
AP 30		TAF	06	8MU9912060	BLANK SPACER	122469 R	123225 322E 0707	AT23				
AP 31	8MU9908270	WR	00	8MU9912060	CONTINUE TAB PRINT IF 0916 ON	122474 I	122484 228D 0708	AP34				
AP 32		TR	00	8MU9908330		122479 I	122544 254D 0709	A006				
AP 33	8MU9908280	WR	00	8MU9931000	MAR Y MAR X SEGMENTS ZAB	122484 R	128335 833E 0711	BX41				
AP 34		TR	00	8MU9931000	DROP PICK	122489 R	128410 841E 0712	BX41				
AP 35		WR	00	8MU9931010	SEGMENTS ZAB	122489 R	128485 848E 0713	BX01				
AP 36		WR	00	8MU9931030	DROP PICK	122494 R	128494 848E 0714	BY05				
AP 37		WR	00	8MU9931040	---	122499 R	128560 856E 0715	044BY10				
AP 38		WR	00	8MU9931050	SA-	122504 R	128580 858E 0715	BY05				
AP 39		WR	00	8MU9931060	SC-	122514 R	128730 873E 0716	BY14				
AP 40		WR	00	8MU9931070	SD-	122519 R	128805 880E 0718	BY22				
AP 41		WR	00	8MU9931070	10-	122519 R	128805 880E 0718	BY22				

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INDEX	TAG	OP	NU AT	OPERAEND	PROGRAM	8M99	-	-	COMMENTS	LOC	OP SU	ADDRESS	REF
AO 01		WR	00	8M9931080	11-	15-	122524 R	12880 886 0719	BY28	0723	AO 05	TITLE	
AO 02		WR	00	8M9931090	12-	16-	122529 R	128920 8926 0720	BY31	AO 06	8M9908330	TM C	11
AO 03		WR	00	8M9931100	13-	17-	122534 R	128960 8966 0721	BY34	AO 07	8M9908332	TRC	12
AO 04		WR	00	8M9912060	13-	17-	122539 R	123225 322E 0722	AT23	AO 05	8M9908350	TRC	12
AO 05		WR	00	8M9912060	13-	17-	122539 R	123225 322E 0722	AT23	AO 06	8M9908332	TM C	11
AO 06		WR	00	8M9908350	122544 0 11	122549 2NDI 0724	AO09	AO 07	8M9908332	TRC	12		
AO 07		WR	00	8M9908350	122549 0 12	122554 2E5D 0725	AO09	AO 08	8M9908350	TR	00		
AO 08				8M9904690	VARIABLE TRANSFER	122554 I	121199 1191 0727	AH28	AO 09	8M9908350	TR	00	
AO 09				8M9910100	BYPASS T-O IF 0911 ON	122559 I	122584 25YD 0728	AQ18	AO 10	8M9910000	TAA	01	
AO 10				8M9910080	TM C	11	122564 2	000500 0500 0730	AS02	AO 11	TITLE		
AO 11				8M9910080	WR	00	000500	000000 .XX. -----	AO12	AO 12	SEL	00	
AO 12				8M9910080	WR	00	8M9910900	000000	AO13	AO 14	TITLE		
AO 13				8M9910080	WR	00	8M9910080	000000	AO14	AO 15	8M9910080	TRC	11
AO 14				8M9910080	WR	00	8M9910080	000000	AO15	AO 16	8M9910080	TRC	11
AO 15				8M9910080	WR	00	8M9910080	000000	AO16	AO 17	TITLE		
AO 16				8M9910080	WR	00	8M9910080	000000	AO17	AO 18	8M9910100	TAE	05
AO 17				8M9910080	WR	00	8M9910080	000000	AO18	AO 18	8M9910100	TAE	05
AO 18				8M9910080	WR	00	8M9910080	000000	AO19	AO 19	8M9910250	RCVS	01
AO 19				8M9910080	WR	00	8M9910080	000000	AO19	AO 20	8M9910100	RCVS	01
AO 20				8M9910080	WR	00	8M9910080	000000	AO20	AO 21	TITLE		
AO 21				8M9910080	WR	00	8M9910080	000000	AO21	AO 22	8M99266006001	RCVS	01
AO 22				8M9910080	WR	00	8M9910080	000000	AO22	AO 23	TITLE		
AO 23				8M9910080	WR	00	8M9910080	000000	AO23	AO 24	8M9920170	TSL	01
AO 24				8M9910080	WR	00	8M9910080	000000	AO24	AO 25	TITLE		
AO 25				8M9910080	WR	00	8M9910080	000000	AO25	AO 26	8M99624206001	TSL	01
AO 26				8M9910080	WR	00	8M9910080	000000	AO26	AO 27	TITLE		
AO 27				8M9910080	WR	00	8M9910080	000000	AO27	AO 28	8M9910250	TR	00
AO 28				8M9910080	WR	00	8M9910080	000000	AO28	AO 29	TITLE		
AO 29				8M9910080	WR	00	8M9910080	000000	AO29	AO 30	8M9910300	CON	0
AO 30				8M9910080	WR	00	8M9910080	000000	AO30	AO 31	8M9910300	CON	0
AO 31				8M9910080	WR	00	8M9910080	000000	AO31	AO 32	8M9910320	CON	0
AO 32				8M9910080	WR	00	8M9910080	000000	AO32	AO 33	8M9910320	CON	0
AO 33				8M9910080	WR	00	8M9910080	000000	AO33	AO 34	8M9910320	CON	0
AO 34				8M9910080	WR	00	8M9910080	000000	AO34	AO 35	8M9910340	CON	0
AO 35				8M9910080	WR	00	8M9910080	000000	AO35	AO 36	8M9910350	CON	0
AO 36				8M9910080	WR	00	8M9910080	000000	AO36	AO 37	8M9910360	CON	0
AO 37				8M9910080	WR	00	8M9910080	000000	AO37	AO 38	8M9910370	CON	0
AO 38				8M9910080	WR	00	8M9910080	000000	AO38	AO 39	8M9910380	CON	0
AO 39				8M9910080	WR	00	8M9910080	000000	AO39	AO 40	8M9910390	CON	0
AO 40				8M9910080	WR	00	8M9910080	000000	AO40	AO 41	8M9910510	CON	0
AO 41				8M9910080	WR	00	8M9910080	000000	AO41	AO 42	8M9910510	CON	0
AO 42				8M9910080	WR	00	8M9910080	000000	AO42	AO 43	8M9910514	CON	0

INDEX TAG OP NU AT OPERAND PROGRAM SMU99 - - COMMENTS LOC DP SU ADDRESS PG LIN SER REF

	AR 01	01	63	63	NAME	00	CON	0	GENERATED TO REPLACE DRCD, DCN, OR DFBN	0004 - 00004	048
AR 20	AR 21	00	122735	122735	0781	05	122734	122739	0782	0783	AR 23
AR 21	AR 22	00	122734	122739	0781	05	0000	0000	0782	0783	AR 24
AR 22	AR 23	00	122734	122739	0781	05	0004	- 00004	0782	0783	AR 25
AR 23	AR 24	00	122734	122739	0781	05	0000	0000	0782	0783	AR 26
AR 24	AR 25	00	122734	122739	0781	05	0004	0004	0782	0783	AR 27
AR 25	AR 26	00	122734	122739	0781	05	0014	0014	0782	0783	AR 28
AR 26	AR 27	00	122734	122739	0781	05	0019	0019	0782	0783	AR 29
AR 27	AR 28	00	122734	122739	0781	05	0024	0004	0782	0783	AR 30
AR 28	AR 29	00	122734	122739	0781	05	0039	0009	0782	0783	AR 31
AR 29	AR 30	00	122734	122739	0781	05	0044	0000	0782	0783	AR 32
AR 30	AR 31	00	122734	122739	0781	05	0049	0000	0782	0783	AR 33
AR 31	AR 32	00	122734	122739	0781	05	0054	0014	0782	0783	AR 34
AR 32	AR 33	00	122734	122739	0781	05	0064	0014	0782	0783	AR 35
AR 33	AR 34	00	122734	122739	0781	05	0074	0014	0782	0783	AR 36
AR 34	AR 35	00	122734	122739	0781	05	0084	0004	0782	0783	AR 37
AR 35	AR 36	00	122734	122739	0781	05	0094	0004	0782	0783	AR 38
AR 36	AR 37	00	122734	122739	0781	05	0104	0004	0782	0783	AR 39
AR 37	AR 38	00	122734	122739	0781	05	0114	0004	0782	0783	AR 40
AR 38	AR 39	00	122734	122739	0781	05	0124	0004	0782	0783	AR 41
AR 39	AR 40	00	122734	122739	0781	05	0134	0004	0782	0783	AR 42
AR 40	AR 41	00	122734	122739	0781	05	0144	0004	0782	0783	AR 43
AR 41	AR 42	00	122734	122739	0781	05	0154	0004	0782	0783	AR 44
AR 42	AR 43	00	122734	122739	0781	05	0164	0004	0782	0783	AR 45
AR 43	AR 44	00	122734	122739	0781	05	0174	0004	0782	0783	AR 46
AR 44	AR 45	00	122734	122739	0781	05	0184	0004	0782	0783	AR 47
AR 45	AR 46	00	122734	122739	0781	05	0194	0004	0782	0783	AR 48
AR 46	AR 47	00	122734	122739	0781	05	0204	0004	0782	0783	AR 49
AR 47	AR 48	00	122734	122739	0781	05	0214	0004	0782	0783	AR 50
AR 48	AR 49	00	122734	122739	0781	05	0224	0004	0782	0783	AR 51
AR 49	AR 50	00	122734	122739	0781	05	0234	0004	0782	0783	AR 52
AR 50	AR 51	00	122734	122739	0781	05	0244	0004	0782	0783	AR 53
AR 51	AR 52	00	122734	122739	0781	05	0254	0004	0782	0783	AR 54
AR 52	AR 53	00	122734	122739	0781	05	0264	0004	0782	0783	AR 55
AR 53	AR 54	00	122734	122739	0781	05	0274	0004	0782	0783	AR 56
AR 54	AR 55	00	122734	122739	0781	05	0284	0004	0782	0783	AR 57
AR 55	AR 56	00	122734	122739	0781	05	0294	0004	0782	0783	AR 58
AR 56	AR 57	00	122734	122739	0781	05	0304	0004	0782	0783	AR 59
AR 57	AR 58	00	122734	122739	0781	05	0314	0004	0782	0783	AR 60
AR 58	AR 59	00	122734	122739	0781	05	0324	0004	0782	0783	AR 61
AR 59	AR 60	00	122734	122739	0781	05	0334	0004	0782	0783	AR 62
AR 60	AR 61	00	122734	122739	0781	05	0344	0004	0782	0783	AR 63
AR 61	AR 62	00	122734	122739	0781	05	0354	0004	0782	0783	AR 64
AR 62	AR 63	00	122734	122739	0781	05	0364	0004	0782	0783	AR 65
AR 63	AR 64	00	122734	122739	0781	05	0374	0004	0782	0783	AR 66
AR 64	AR 65	00	122734	122739	0781	05	0384	0004	0782	0783	AR 67
AR 65	AR 66	00	122734	122739	0781	05	0394	0004	0782	0783	AR 68
AR 66	AR 67	00	122734	122739	0781	05	0404	0004	0782	0783	AR 69
AR 67	AR 68	00	122734	122739	0781	05	0414	0004	0782	0783	AR 70
AR 68	AR 69	00	122734	122739	0781	05	0424	0004	0782	0783	AR 71
AR 69	AR 70	00	122734	122739	0781	05	0434	0004	0782	0783	AR 72
AR 70	AR 71	00	122734	122739	0781	05	0444	0004	0782	0783	AR 73
AR 71	AR 72	00	122734	122739	0781	05	0454	0004	0782	0783	AR 74
AR 72	AR 73	00	122734	122739	0781	05	0464	0004	0782	0783	AR 75
AR 73	AR 74	00	122734	122739	0781	05	0474	0004	0782	0783	AR 76
AR 74	AR 75	00	122734	122739	0781	05	0484	0004	0782	0783	AR 77
AR 75	AR 76	00	122734	122739	0781	05	0494	0004	0782	0783	AR 78
AR 76	AR 77	00	122734	122739	0781	05	0504	0004	0782	0783	AR 79
AR 77	AR 78	00	122734	122739	0781	05	0514	0004	0782	0783	AR 80
AR 78	AR 79	00	122734	122739	0781	05	0524	0004	0782	0783	AR 81
AR 79	AR 80	00	122734	122739	0781	05	0534	0004	0782	0783	AR 82
AR 80	AR 81	00	122734	122739	0781	05	0544	0004	0782	0783	AR 83
AR 81	AR 82	00	122734	122739	0781	05	0554	0004	0782	0783	AR 84
AR 82	AR 83	00	122734	122739	0781	05	0564	0004	0782	0783	AR 85
AR 83	AR 84	00	122734	122739	0781	05	0574	0004	0782	0783	AR 86
AR 84	AR 85	00	122734	122739	0781	05	0584	0004	0782	0783	AR 87
AR 85	AR 86	00	122734	122739	0781	05	0594	0004	0782	0783	AR 88
AR 86	AR 87	00	122734	122739	0781	05	0604	0004	0782	0783	AR 89
AR 87	AR 88	00	122734	122739	0781	05	0614	0004	0782	0783	AR 90
AR 88	AR 89	00	122734	122739	0781	05	0624	0004	0782	0783	AR 91
AR 89	AR 90	00	122734	122739	0781	05	0634	0004	0782	0783	AR 92
AR 90	AR 91	00	122734	122739	0781	05	0644	0004	0782	0783	AR 93
AR 91	AR 92	00	122734	122739	0781	05	0654	0004	0782	0783	AR 94
AR 92	AR 93	00	122734	122739	0781	05	0664	0004	0782	0783	AR 95
AR 93	AR 94	00	122734	122739	0781	05	0674	0004	0782	0783	AR 96
AR 94	AR 95	00	122734	122739	0781	05	0684	0004	0782	0783	AR 97
AR 95	AR 96	00	122734	122739	0781	05	0694	0004	0782	0783	AR 98
AR 96	AR 97	00	122734	122739	0781	05	0704	0004	0782	0783	AR 99
AR 97	AR 98	00	122734	122739	0781	05	0714	0004	0782	0783	AR 100
AR 98	AR 99	00	122734	122739	0781	05	0724	0004	0782	0783	AR 101
AR 99	AR 102	00	122734	122739	0781	05	0734	0004	0782	0783	AR 102
AR 100	AR 103	00	122734	122739	0781	05	0744	0004	0782	0783	AR 103
AR 101	AR 104	00	122734	122739	0781	05	0754	0004	0782	0783	AR 104
AR 102	AR 105	00	122734	122739	0781	05	0764	0004	0782	0783	AR 105
AR 103	AR 106	00	122734	122739	0781	05	0774	0004	0782	0783	AR 106
AR 104	AR 107	00	122734	122739	0781	05	0784	0004	0782	0783	AR 107
AR 105	AR 108	00	122734	122739	0781	05	0794	0004	0782	0783	AR 108
AR 106	AR 109	00	122734	122739	0781	05	0804	0004	0782	0783	AR 109
AR 107	AR 110	00	122734	122739	0781	05	0814	0004	0782	0783	AR 110
AR 108	AR 111	00	122734	122739	0781	05	0824	0004	0782	0783	AR 111
AR 109	AR 112	00	122734	122739	0781	05	0834	0004	0782	0783	AR 112
AR 110	AR 113	00	122734	122739	0781	05	0844	0004	0782	0783	AR 113
AR 111	AR 114	00	122734	122739	0781	05	0854	0004	0782	0783	AR 114
AR 112	AR 115	00	122734	122739	0781	05	0864	0004	0782	0783	AR 115
AR 113	AR 116	00	122734	122739	0781	05	0874	0004	0782	0783	AR 116
AR 114	AR 117	00	122734	122739	0781	05	0884	0004	0782	0783	AR 117
AR 115	AR 118	00	122734	122739	0781	05	0894	0004	0782	0783	AR 118
AR 116	AR 119	00	122734	122739	0781	05	0904	0004			

INDEX	TAG	OP	NU AT	OPRAND	PROGRAM	8M99	-	COMMENTS	LOC	OP SU	ADDRESS	GLIN SER REF
AS 01	8M9910900	06	000000	GENERATED TO REPLACE DRCD, DCN, OR DFPN	ERROR ADDRESS							
AS 02	8M9910900	06	000000	GENERATED TO REPLACE DRCD, DCN, OR DFPN	ERROR ADDRESS							
AS 03	8M9910920	01	01	CHAR IDENT -AB- -NB- SB--IS	XXXXX	XXXXXX	BIT BREAKDOWN	122847	122845	122845	122845	0824
AS 04	8M9910920	05	05	CHAR IDENT -AB- -NB- SB--IS	XXXXX	XXXXXX	BIT BREAKDOWN	122847	122845	122845	122845	0823
AS 05	8M9910940	06	07	XXXXX	XXXXXX	XXXXXX	BIT BREAKDOWN	122847	122845	122845	122845	0825
AS 06	8M9910940	07	02	XXXXX	XXXXXX	XXXXXX	BIT BREAKDOWN	122847	122845	122845	122845	0826
AS 07	8M9910940	01	01	XXXXX	XXXXXX	XXXXXX	BIT BREAKDOWN	122847	122845	122845	122845	0826
AS 08	8M9910990	0828	122855	GENERATED TO REPLACE DRCD, DCN, OR DFPN	901-902 TO PROG							
AS 09	8M9910990	0830	122870	TABLETATION CONSTANT AREA	CON 0	CON 0	CON 0	122871	122871	122871	122871	0831
AS 10	8M9911000	0834	122881	GENERATED TO REPLACE DRCD, DCN, OR DFPN	0123456789	000006	000006	122887	122887	122887	122887	0835
AS 11	8M9911000	0835	122887	TABLETATION CONSTANT AREA	CON 0	CON 0	CON 0	122893	122893	122893	122893	0836
AS 12	8M9911000	0837	06	GENERATED TO REPLACE DRCD, DCN, OR DFPN	000007	000007	000007	122917	122917	122917	122917	0841
AS 13	8M9911000	0841	06	TABLETATION CONSTANT AREA	CON 0	CON 0	CON 0	122923	122923	122923	122923	0842
AS 14	8M9911000	0842	06	GENERATED TO REPLACE DRCD, DCN, OR DFPN	000009	000009	000009	122929	122929	122929	122929	0843
AS 15	8M9911070	0843	06	TABLETATION CONSTANT AREA	CON 0	CON 0	CON 0	122935	122935	122935	122935	0844
AS 16	8M9911080	0844	06	GENERATED TO REPLACE DRCD, DCN, OR DFPN	000006	000006	000006	122941	122941	122941	122941	0845
AS 17	8M991110	0845	06	TABLETATION CONSTANT AREA	CON 0	CON 0	CON 0	122947	122947	122947	122947	0846
AS 18	8M991110	0846	06	GENERATED TO REPLACE DRCD, DCN, OR DFPN	000007	000007	000007	122953	122953	122953	122953	0847
AS 19	8M991110	0847	06	TABLETATION CONSTANT AREA	CON 0	CON 0	CON 0	122959	122959	122959	122959	0848
AS 20	8M991110	0848	06	GENERATED TO REPLACE DRCD, DCN, OR DFPN	000013	000013	000013	122965	122965	122965	122965	0849
AS 21	8M991110	0849	06	TABLETATION CONSTANT AREA	CON 0	CON 0	CON 0	122971	122971	122971	122971	0850
AS 22	8M991110	0850	06	GENERATED TO REPLACE DRCD, DCN, OR DFPN	000020	000020	000020	122973	122973	122973	122973	0851
AS 23	8M991110	0851	06	TABLETATION CONSTANT AREA	CON 0	CON 0	CON 0	122979	122979	122979	122979	0852
AS 24	8M991110	0852	06	GENERATED TO REPLACE DRCD, DCN, OR DFPN	000026	000026	000026	122983	122983	122983	122983	0853
AS 25	8M991110	0853	06	TABLETATION CONSTANT AREA	CON 0	CON 0	CON 0	122989	122989	122989	122989	0854
AS 26	8M991110	0854	06	GENERATED TO REPLACE DRCD, DCN, OR DFPN	000039	000039	000039	122993	122993	122993	122993	0855
AS 27	8M991110	0855	06	TABLETATION CONSTANT AREA	CON 0	CON 0	CON 0	122997	122997	122997	122997	0856
AS 28	8M991110	0856	06	GENERATED TO REPLACE DRCD, DCN, OR DFPN	000046	000046	000046	122999	122999	122999	122999	0857
AS 29	8M991110	0857	06	TABLETATION CONSTANT AREA	CON 0	CON 0	CON 0	123002	123002	123002	123002	0858
AS 30	8M9911250	0858	06	GENERATED TO REPLACE DRCD, DCN, OR DFPN	000052	000052	000052	123022	123022	123022	123022	0859
AS 31	8M9911270	0859	06	TABLETATION CONSTANT AREA	CON 0	CON 0	CON 0	123060	123060	123060	123060	0860
AS 32	8M9911270	0860	06	GENERATED TO REPLACE DRCD, DCN, OR DFPN	000065	000065	000065	123098	123098	123098	123098	0861
AS 33	8M9911270	0861	06	TABLETATION CONSTANT AREA	CON 0	CON 0	CON 0	123106	123106	123106	123106	0862
AS 34	8M991130	0862	06	GENERATED TO REPLACE DRCD, DCN, OR DFPN	000075	000075	000075	123110	123110	123110	123110	0863
AS 35	8M991130	0863	06	TABLETATION CONSTANT AREA	CON 0	CON 0	CON 0	123114	123114	123114	123114	0864
AS 36	8M991130	0864	06	GENERATED TO REPLACE DRCD, DCN, OR DFPN	000075	000075	000075	123118	123118	123118	123118	0865
AS 37	8M991130	0865	06	TABLETATION CONSTANT AREA	CON 0	CON 0	CON 0	123122	123122	123122	123122	0866
AS 38	8M991130	0866	06	GENERATED TO REPLACE DRCD, DCN, OR DFPN	000075	000075	000075	123126	123126	123126	123126	0867
AS 39	8M991130	0867	06	TABLETATION CONSTANT AREA	CON 0	CON 0	CON 0	123130	123130	123130	123130	0868
AS 40	8M991130	0868	06	GENERATED TO REPLACE DRCD, DCN, OR DFPN	000075	000075	000075	123134	123134	123134	123134	0869
AS 41	8M991130	0869	06	TABLETATION CONSTANT AREA	CON 0	CON 0	CON 0	123138	123138	123138	123138	0870
AS 42	8M991130	0870	06	GENERATED TO REPLACE DRCD, DCN, OR DFPN	000075	000075	000075	123142	123142	123142	123142	0871
AS 43	8M991130	0871	06	TABLETATION CONSTANT AREA	CON 0	CON 0	CON 0	123146	123146	123146	123146	0872
AS 44	8M991130	0872	06	GENERATED TO REPLACE DRCD, DCN, OR DFPN	000075	000075	000075	123150	123150	123150	123150	0873
AS 45	8M991130	0873	06	TABLETATION CONSTANT AREA	CON 0	CON 0	CON 0	123154	123154	123154	123154	0874
AS 46	8M991130	0874	06	GENERATED TO REPLACE DRCD, DCN, OR DFPN	000075	000075	000075	123158	123158	123158	123158	0875

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INDEX	TAG	OP	NU AT	OPRANID	PROGRAM	COMMENTS	LOC	OP SU	ADDRESS	PGLIN	SER F
AU 01	BMU9912250	12	CHR	-----	-----	-----	-----	-----	-----	-----	-----
AU 02	BMU9912254	22	CHR	-----	-----	-----	-----	-----	-----	-----	-----
AU 03	-----	22	CHR	-----	-----	-----	-----	-----	-----	-----	-----
AU 04	BMU9912254	22	CHR	-----	-----	-----	-----	-----	-----	-----	-----
E93	0915	0916	0916	0917	0918	0919	0920	0921	0922	AU 06	AU 07
490	22416	22418	22419	22420	22421	22422	22423	22424	22425	AU 08	AU 09
491	0919	0919	0919	0919	0919	0919	0919	0919	0919	AU 10	AU 11
492	0916	0916	0916	0916	0916	0916	0916	0916	0916	AU 12	AU 13
493	0915	0915	0915	0915	0915	0915	0915	0915	0915	AU 14	AU 15
494	0926	0926	0926	0927	0927	0928	0928	0928	0928	AU 16	AU 17
495	0925	0925	0925	0925	0925	0925	0925	0925	0925	AU 18	AU 19
496	0924	0924	0924	0924	0924	0924	0924	0924	0924	AU 20	AU 21
497	0923	0923	0923	0923	0923	0923	0923	0923	0923	AU 22	AU 23
498	0922	0922	0922	0922	0922	0922	0922	0922	0922	AU 24	AU 25
499	0921	0921	0921	0921	0921	0921	0921	0921	0921	AU 26	AU 27
500	0920	0920	0920	0920	0920	0920	0920	0920	0920	AU 28	AU 29
501	0919	0919	0919	0919	0919	0919	0919	0919	0919	AU 30	AU 31
502	0918	0918	0918	0918	0918	0918	0918	0918	0918	AU 32	AU 33
503	0917	0917	0917	0917	0917	0917	0917	0917	0917	AU 34	AU 35
504	0916	0916	0916	0916	0916	0916	0916	0916	0916	AU 36	AU 37
505	0915	0915	0915	0915	0915	0915	0915	0915	0915	AU 38	AU 39
506	0914	0914	0914	0914	0914	0914	0914	0914	0914	AU 40	AU 41
507	0913	0913	0913	0913	0913	0913	0913	0913	0913	AU 42	AU 43
508	0912	0912	0912	0912	0912	0912	0912	0912	0912	AU 44	AU 45
509	0911	0911	0911	0911	0911	0911	0911	0911	0911	AU 46	AU 47
510	0910	0910	0910	0910	0910	0910	0910	0910	0910	AU 48	AU 49
511	0909	0909	0909	0909	0909	0909	0909	0909	0909	AU 50	BMU9912540

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INDEX TAG OP NU AT OPERAND PROCGRAM 619295 LOC OP SU ADDRESS



INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8MU99	LOC OP SU	ADDRESS	PGLIN SER REF
AX 01		TITLE	OK	8MU9913280 SGN 00	8MU9913340	COMMENTS - -		
AX 02		TITLE	OK	8MU9913280 SGN 00	8MU9913260-004	SET ALTERNATE SWITCH	124414 T	124400 4406 1070 AY61
AX 03		TITLE	TR 00	8MU9913340			124419 I	124444 4440 1071 080AX12
AX 04		TITLE						1072
AX 05		TITLE	TR 00	8MU9913320 C	TEST - FOR NO C BIT PICK - OK	124424 *	7 124434 4UCD 1074	AZO9
AX 06		TITLE	TR 00	8MU9913320	TEST - FOR NO C BIT PICK - OK	124429 I	124614 461D 1075	AY16
AX 07		TITLE						1076
AX 08		TITLE				124439 T	124400 4406 1077 AW41	
AX 09		TITLE	ADM 00	8MU9913260-004	RESET ALTERNATE SWITCH	124439 6	124400 4406 1078	AW41
AX 10		TITLE						1079
AX 11		TITLE						
AX 12			02	8MU9910510	DECREASE CTR BY 1	124444 P	2 122682 260B 1080	A042
AX 13			02	8MU9913400	INCRAESE CTR BY 1	124449 N	124464 440D 1081	AX16
AX 14			01	8MU9913250	INCRAESE CHK ADDR BY 00001	124454 @	1 124399 432I 1082	AW40
AX 15			00	8MU9913250	INCRAESE CHK ADDR BY 00001	124459 I	124399 439I 1083	AW40
AX 16			00	8MU9913030	L0D TEST ADDR	124464 #	124314 431D 1084	AW16
AX 17			00	8MU9910830	TEST FOR 79999	124469 4	122792 2798 1085	AR33
AX 18			00	8MU9913450	TEST FOR 79999	124474 L	124489 448I 1086	AW22
AX 19			06	8MU9913030	INCRAESE TEST ADDR BY 00005	124479 E	6 124314 4TJD 1088	AW16
AX 20			06	8MU9913030	INCRAESE TEST ADDR BY 00005	124479 E	6 124309 430I 1089	AW15
AX 21			00	8MU9913650	SECTION 4 SWITCH	124489 A	124549 454I 1100	AZ37
AX 22			00	8MU9913650	SECTION 4 SWITCH	124494 I	124519 45/I 1101	AZ30
AX 23			01	8MU9913540	REPEAT SECTION 3 IF 0912 ON	124499 2	1 124519 45/I 1102	AZ30
AX 24			00	8MU9903130	GO TO SECTION 4	124524 I	2 120774 07PD 1109	AZ04
AX 25			00	8MU9913540	GO TO TABULATION AREA	124529 I	120784 078D 1120	AZ06
AX 26			11	8MU9913530	SET TAB PRINT VARIABLE TR BACK	124534 U	1 122551 25VA 1111	A009
AX 27			01	8MU9903508001	SET TAB PRINT VARIABLE TR BACK	124539 I	1 122064 20WD 1112	082AN20
AX 28			12	8MU9913540	SECTION 4 COMPLETE	124539 R	129106 910F 1117	BZ25
AX 29			12	8MU9913540	SECTION 4 COMPLETE	124544 I	124524 452D 1114	AZ31
AX 30			06	8MU9913570	PRINT TAB RESULTS IF 0916 ON	124519 I	6 124534 4VLD 1108	AZ33
AX 31			02	8MU9903080	REPEAT SECTION 3 IF 0912 ON	124524 I	2 120774 07PD 1109	AZ04
AX 32			00	8MU9903130	GO TO SECTION 4	124529 I	120784 078D 1120	AZ06
AX 33			01	8MU99083508001	GO TO TABULATION AREA	124539 I	1 122064 20WD 1112	082AN20
AX 34			01	8MU990808000	GO TO TABULATION AREA	124539 I	1 122551 25VA 1111	A009
AX 35			00	8MU9913550	SECTION 4 COMPLETE	124544 I	124524 452D 1114	AZ31
AX 36			01	8MU9913690	SECTION 4 COMPLETE	124544 I	124524 452D 1114	AZ31
AX 37			01	8MU9913650	SECTION 4 COMPLETE	124549 I	1 124574 45XD 1115	AY04
AX 38			00	8MU9931540	SECTION 4 COMPLETE	124549 R	000500 0500 1116	AY04
AX 39			00	8MU9931540	SECTION 4 COMPLETE	124559 R	124559 R	BZ25

INDEX	TAG	OP	NU AT	OPRAND	PROGRAM	BMU99	-	COMMENTS	LOC	OP SU	ADDRESS	PGLIN	SER REF
AY 01	BMU9913680	TRC	12	BMU9913680					124564 0 11	124569 4NF1	1119	AY02	
AY 02	BMU9913680	TRC	11	BMU9913680					124569 0 12	124574 4ETD	1120	AY02	
AY 03	BMU9913690	TAF	06	BMU9913730	PRINT TAB RESULTS IF 0916 ON				124574 1	6 124589 4VQ1	1122	AY07	
AY 04	BMU9913690	TAF	06	BMU9913730	PRINT TAB RESULTS IF 0916 ON				124579 1	2 124589 07QD	1123	AY07	
AY 05	BMU9913700	TAB	02	BMU9903130	REPEAT SECTION 4 IF 0912 ON				124579 1	2 120784 07QD	1123	AY06	
AY 06	BMU9913700	TR	00	BMU9932100	GO TO SECTION 5				124584 1	129404 940D	1124	CB14	
AY 07	BMU9913730	RCVS	01	BMU99083506001	SET TAB PRINT VARIABLE TR BACK				124589 U	1 122551 25VA	1125	A009	
AY 08	BMU9913730	TSL	01	BMU990808000	GO TO TABULATION PRINT AREA				124594 1	1 122064 20WD	1126	AN20	
AY 09	BMU9913700	TR	00	BMU9913700					124599 1	124579 4571	1128	AY05	
AY 10	BMU9913700	TR	00	BMU9913700					124599 1	124579 4571	1128	AY05	
AY 11	BMU9913800	TITLE		SECTIONS 3 AND 4					1129				
AY 12	BMU9913800	TITLE		COMMON C BIT DROP OR PICK AREA					124604 7	8 122848 2Q4H	1131	AY18	
AY 13	BMU9913800	TITLE	08	BMU9913850	D FOR DROP INTO T-O D-----				124609 1	124619 4611	1132	A056	
AY 14	BMU9913800	TR	00	BMU9910940-006	P FOR PICK INTO T-O P-----				124614 7	9 122848 2Q4H	1134	AY18	
AY 15	BMU9913820	UNL	09	BMU9910940-006	P FOR PICK INTO T-O P-----				1133				
AY 16	BMU9913850	SET	00	000006	00006 1136				124619 B	000006 0006	1136	AY18	
AY 17	BMU9913850	SET	00	000006	1135				124619 B	000006 0006	1136	AY18	
AY 18	BMU9912254	L0D	00	BMU9912254	----				124624 8	123482 3488	1137	AU04	
AY 19	BMU9912254	L0D	00	BMU9912254	----				124629 7	122854 2850	1138	AU04	
AY 20	BMU9910940	UNL	00	BMU9910940	INTO T-O				124634 B	000002 0002	1139	AU04	
AY 21	BMU9910940	SET	00	000002	----				124634 B	000002 0002	1139	AU04	
AY 22	BMU9910940	UNL	00	BMU9910940	INTO T-O				124639 8	122830 2836	1140	AY22	
AY 23	BMU9910940	UNL	00	BMU9910940	INTO T-O	X..X			124644 7	122844 2840	1141	AY23	
AY 24	BMU9913910	SET	00	000001	1143				124644 4	8 122848 2Q4H	1144	A056	
AY 25	BMU9913910	CMF	08	BMU9910940-006	TEST T-O FOR D - DROP				124649 B	000001 0001	1143	AY25	
AY 26	BMU9913910	CMF	08	BMU9910940-006	TEST T-O FOR D - DROP				124654 4	8 122848 2Q4H	1144	A056	
AY 27	BMU9913910	TR	00	BMU9913910	1145				124659 L	124674 467D	1145	084Y32	
AY 28	BMU9910870	L0D	00	BMU9910870	SHOULD-BE CHAR				124664 8	122828 282H	1147	AR46	
AY 29	BMU9910870	L0D	00	BMU9910870	SHOULD-BE CHAR				124664 1	124679 467I	1148	AY33	
AY 30	BMU9910870	TR	00	BMU9913912	----				124664 1146				
AY 31	BMU9910860	V	00	BMU9910860	SHOULD-BE CHAR				1149				
AY 32	BMU9913910	L0D	00	BMU9910940-003	INTO T-O				124674 8	122818 281H	1150	AR45	
AY 33	BMU9913912	UNL	00	BMU9910940	INTO T-O				124679 7	122842 284B	1151	AS04	
AY 34	BMU9913912	LDA	00	BMU9913250	ERROR ADDRESS				124684 *	122839 283I	1153	AM40	
AY 35	BMU9913912	UNL	00	BMU9910940	INTO T-O				124684 #	124399 439I	1152	AM40	
AY 36	BMU9913912	UNL	00	BMU9910940	SET VAR ERROR CHAR ADDR				124689 7	122839 283I	1153	AS02	
AY 37	BMU9913912	TITLE							124694 *	124704 470D	1154	AY40	
AY 38	BMU9914040	SET	00	000001	1156				124699 B	000001 0001	1157	AS04	
AY 39	BMU9914040	L0D	00	000000	000000				124704 8	000000 0000	1158	AY40	
AY 40	BMU9914040	UNL	00	000000	000000				124709 7	122845 284E	1159	AY41	

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM	SMU99	-	-	COMMENTS	LOC	OP SD	ADDRESS	PGLIN	SER REF
AZ 01		TR	11	SMU9914070	SMU9914070					124714 0	11	124719 4PA1	1160	- AZ02 -
AZ 02		TR	00	SMU9914150						124719 1		124739 4731	1161	085AZ08
AZ 03										1162				
AZ 04										1163				
AZ 05										124724 4	8	122848 204H	1164	AS06
AZ 06										124729 L		124414 441D	1165	AZ02
AZ 07										124734 1		124434 443D	1166	AZ09
AZ 08										124739 1	1	124764 47WD	1167	AZ16
AZ 09										1168				
AZ 10										124744 2	000500 0500	1169	AS02	
AZ 11										124749 R		122834 283D	1170	
AZ 12										124751				
AZ 13										124754 0	11	124759 4PE1	1172	AZ14
AZ 14										124759 0	12	124764 4G6D	1173	AZ16
AZ 15										124759 1				
AZ 16										124764 I	5	124724 4XSD	1175	AZ05
AZ 17										124769 U	1	122056 20VF	1176	AN18
AZ 18										124774 I	1	124804 48AD	1177	AZ29
AZ 19										124774				
AZ 20										124779 U	1	127641 76UA	1179	BFS8
AZ 21										124784 I	1	125669 56WI	1180	BS19
AZ 22										124784	1			
AZ 23										124789 U	1	137531 X5TA	1182	DZ03
AZ 24										124794 I	1	137104 X1AD	1183	DZ05
AZ 25										124799 I	1	124724 472D	1185	AZ05
AZ 26										124799				
AZ 27										086				
AZ 28										SECTS 3-4-6-7-8-9				
AZ 29										1186				
AZ 30										1184				
AZ 31										1184				
AZ 32										1186				
AZ 33										1186				
AZ 34										1186				
AZ 35										1186				
AZ 36										1186				
AZ 37										1186				
AZ 38										1186				

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM BM99	-	-	COMMENTS	LOC	OP SU	ADDRESS	PGLIN SER REF
BA 01	BM9914300 RAD	02	BM9910530	5	L0D TEST ADDR	12439 H	2	122686 260F 1208	AR03			
BA 02	LDA	00	BM9913030	5	L0D TEST ADDR	124844 #	124314 431D 1209	AW16				
BA 03	SUB	00	BM9910520	5	REDUCE BY 4	124849 P	122685 260E 1210	AR02				
BA 04	ULA	00	BM9914410	5	SET CHK ADDR	124854 *	124869 4881 1211	SA14				
BA 05	BM9914340 NOP	00	BM9914380	5	SECTION 4 SWITCH	124859 A	124879 487I 1213	BA12				
BA 06	BM9914340 NOP	00	BM9914380	5	SECTION 4 SWITCH	124864 T	124890 489E 1215	BA14				
BA 07	SGN	00	BM9914420-004	5	RESET ALTERNATE SWITCH	124864 T	124884 488D 1217	BA15				
BA 08	ADM	00	BM9914420-004	5	RESET ALTERNATE SWITCH	124869 6	124890 489E 1216	BA15				
BA 09	TR	00	BM9914400	5	RESET ALTERNATE SWITCH	124874 1	124884 488D 1217	BA13				
BA 10	TR	00	BM9914400	5	RESET ALTERNATE SWITCH	124890 489E 1215	1212					
BA 11	SGN	00	BM9914420-C04	5	SET ALTERNATE SWITCH	124879 T	124890 489E 1219	BA15				
BA 12	BM9914380	00	BM9914420-C04	5	SET ALTERNATE SWITCH	124884 B	000001 0001 1220	AR46				
BA 13	BM9914400 SET	00	BM9910001	5	CHECK ADDRESS	124889 8	000000 0000 1221	AR46				
BA 14	BM9914410 LOD	00	BM9910000	5	SWITCH-ALTERNATE INTERROG	124894 A	124914 491D 1222	BA20				
BA 15	BM9914420 NOP	00	BM9910280	5	TEST FOR EQUAL V	124899 4	122818 281H 1223	0884R45				
BA 16	CMP	00	BM9910280	5	TEST FOR EQUAL V	124904 L	124929 492I 1224	BA24				
BA 17	TR	00	BM9914400	5	TEST FOR EQUAL V	124909 1	124969 496I 1225	BA37				
BA 18	TR	00	BM9914600	5	ERROR	124909 1	124969 496I 1225	BA37				
BA 19	BM9914460 CMP	00	BM9910870	5	TEST FOR EQUAL MINUS ZERO	124914 4	122828 282H 1227	AR46				
BA 20	BM9914460 CMP	00	BM9914510	5	TEST FOR EQUAL MINUS ZERO	124919 L	124939 493I 1228	BA27				
BA 21	TR	00	BM9914510	5	TEST FOR EQUAL MINUS ZERO	124924 1	125119 511I 1229	BA27				
BA 22	TR	00	BM9915000	5	ERROR	124924 1	124924 1	BB36				
BA 23	BM9914490 SGN	00	BM9914420-004	5	SET ALTERNATE SWITCH	1230	124929 T	124890 489E 1231	BA15			
BA 24	BM9914490 SGN	00	BM9914420-004	5	SET ALTERNATE SWITCH	1230	124934 1	124949 494I 1232	BA31			
BA 25	TR	00	BM9914530	5	SET ALTERNATE SWITCH	1230	124929 T	124890 489E 1231	BA15			
BA 26	TITLE	00	3M9914420-004	5	RESET ALTERNATE SWITCH	1233	124939 T	124890 489E 1234	BA15			
BA 27	8M9914510 SGN	00	3M9914420-004	5	RESET ALTERNATE SWITCH	1233	124944 6	124890 489E 1235	BA15			
BA 28	ADM	00	3M9914420-004	5	RESET ALTERNATE SWITCH	1233	124944 6	124890 489E 1235	BA15			
BA 29	TITLE	00	3M9914420-004	5	RESET ALTERNATE SWITCH	1236						
BA 30	8M9914530 SUB	02	8M9910510	5	DECREASE CTR BY 1	1237	124949 P	2 122682 260B 1238	AO42			
BA 31	8M9914530 SUB	02	8M9910510	5	DECREASE CTR BY 1	1237	124949 P	2 122682 260B 1238	AO42			
BA 32	TRZ	02	8M9913400	5	INCRASE CHK ADDR BY 00001	1239	124954 N	2 124464 440D 1239	AX16			
BA 33	AM	01	8M9914410	5	INCRASE CHK ADDR BY 00001	1240	124959 G	1 124889 488YI 1240	089BA14			
BA 34	TR	00	8M9914400	5	INCRASE CHK ADDR BY 00001	1241	124964 1	124884 488D 1241	BA13			
BA 35	CHAR V DROP OR PICK INTERROG	00	101010	5	SET 31T CHECK ADDR	1242	124969 *	124994 488I 1244	BA14			
BA 36	TITLE	00	8M9914410	5	SET 31T CHECK ADDR	1243	124969 *	124994 488I 1244	BA14			
BA 37	8M9914600 LDA	00	8M9914410	5	SET 31T CHECK ADDR	1243	124974 *	124994 499D 1245	BA01			
BA 38	INTO T-O	00	8M9912254	5	INTO T-O	1246	124979 B	000007 0007 1247	AS06			
BA 39	TITLE	00	8M9910940	5	INTO T-O	1246	124989 7	122854 285D 1249	AS06			
BA 40	LOD	00	8M9912254	5	INTO T-O	1246	124984 8	123482 3488 1248	AU04			
BA 41	SET	00	8M9910940	5	INTO T-O	1246	124989 6	000007 0007 1247	AS06			
BA 42	UNL	00	8M9910940	5	INTO T-O	1246	124989 7	122854 285D 1249	AS06			

INDEX TAG OP NU AT OPERAND PROGRAM 8M999 COMMENTS LOC OP SU ADDRESS PGLIN SER REF

BB 01	8M99914650	RCVS	01	000000	BIT CHECK ADDRESS	124994 U	1 000000 00#0 1250	124994 U	124999 .	125004 1	125009 50#1 1251	BB04
BB 02	8M99914680	TR	01	8M99914680	TEST FOR 1 BIT DROP	124999 .	1 125009 50#1 1251	125004 1	125014 1	125014 501D 1252	BB06	
BB 03	8M99914680	TR	00	8M99914690	TEST FOR 1 BIT DROP	125004 1	125014 501D 1252	125009 7	8 122854 205D 1253	AS06		
BB 04	8M99914680	NU	08	8M99910940	-----D	125009 7	8 122854 205D 1253	AS06				
BB 05	8M99914690	TR	02	8M99914710	TEST FOR NO 2 BIT PICK	125014 .	2 125024 50KD 1255	125019 7	9 122853 20VC 1256	BB09		
BB 06	8M99914690	NU	09	8M99910940-001	-----P-	125014 .	2 125024 50KD 1255	125019 7	9 122853 20VC 1256	BB09		
BB 07	8M99914710	TR	04	8M99914730	TEST FOR 4 BIT DROP	125024 .	3 125034 50CD 1258	125029 1	125039 5031 1259	BB11		
BB 08	8M99914710	NU	09	8M99910940-003	TEST FOR NO 8 BIT PICK	125039 .	4 125049 5#4I 1262	125044 7	9 122851 20VA 1263	BB16		
BB 09	8M99914710	TR	00	8M99914740	TEST FOR NO 8 BIT PICK	125039 .	4 125049 5#4I 1262	125044 7	9 122851 20VA 1263	BB16		
BB 10	8M99914710	NU	08	8M99910940-004	----D----	125034 7	8 122852 205B 1260	AS06				
BB 11	8M99914730	NU	08	8M99910940-002	----D----	125034 7	8 122852 205B 1260	AS06				
BB 12	8M99914740	TR	08	8M99914760	TEST FOR NO 8 BIT PICK	1261	125044 7	9 122851 20VA 1263	BB16			
BB 13	8M99914740	NU	09	8M99910940-003	TEST FOR NO 8 BIT PICK	1261	125044 7	9 122851 20VA 1263	BB16			
BB 14	8M99914760	TR	00	8M99914790	TEST FOR A BIT DROP	1264	125049 .	5 125059 5#VI 1265	BB18			
BB 15	8M99914760	NU	09	8M99910940-005	TEST FOR NO 8 BIT PICK	1268	125064 .	6 125074 5#PD 1269	BB23			
BB 16	8M99914760	TR	08	8M99914810	TEST FOR NO 8 BIT PICK	1268	125064 .	6 125074 5#PD 1269	BB23			
BB 17	8M99914760	NU	09	8M99910940-005	TEST FOR NO 8 BIT PICK	1268	125069 7	9 122849 20UI 1270	AS06			
BB 18	8M99914780	NU	08	8M99910940-004	----D----	1268	125069 7	9 122849 20UI 1270	AS06			
BB 19	8M99914790	TR	08	8M99914810	TEST FOR NO 8 BIT PICK	1268	125064 .	6 125074 5#PD 1269	BB23			
BB 20	8M99914790	NU	09	8M99910940-005	TEST FOR NO 8 BIT PICK	1268	125069 7	9 122849 20UI 1270	AS06			
BB 21	8M99914790	TR	00	8M99914830	TEST FOR C BIT DROP	1271	125074 .	7 125084 5#HD 1272	BB25			
BB 22	8M99914810	NU	08	8M99914830	TEST FOR C BIT DROP	1271	125074 .	7 125084 5#HD 1272	BB25			
BB 23	8M99914810	TR	00	8M99914850	TEST FOR C BIT DROP	1271	125079 1	125089 5081 1273	091BB26			
BB 24	8M99914810	NU	08	8M99914850	TEST FOR C BIT DROP	1271	125079 1	125089 5081 1273	091BB26			
BB 25	8M99914830	NU	08	8M99910940-006	-----	1274	125084 7	8 122848 204H 1274	AS06			
BB 26	8M99914850	SET	00	000001	SHOULD-BE CHAR	1275	125089 8	000001 0001 1275	AR45			
BB 27	8M99914850	LDD	00	8M99910860	V	1276	125094 8	122818 281H 1276	AR45			
BB 28	8M99914850	UNL	00	8M99910920-003	X..X	1277	125099 7	122842 284B 1277	AS04			
BB 29	8M99915350	TSL	01	8M999156208001	-----	1279	125104 U	1 125371 53XA 1279	BD25			
BB 30	8M99915350	RCVS	01	8M99915350	-----	1279	125109 1	1 125264 52WD 1280	BC36			
BB 31	8M99915350	RCVS	01	8M99915350	-----	1279	125109 1	1 125264 52WD 1280	BC36			
BB 32	8M99914490	TR	00	8M99914490	-----	1282	125114 1	124929 4921 1282	BB24			
BB 33	8M99914490	NU	08	8M99914490	-----	1283	125114	124929 4921 1282	BB24			
BB 34	CHAR MINUS ZERO DROP OR PICK	-----	1283									
BB 35	8M99915000	LDA	00	8M99914410	LDD CHK ADDR	1285	125119 *	124889 4881 1286	BB04			
BB 36	8M99915000	LDA	00	8M99915050	SET BIT CHECK ADDR	1285	125124 *	125144 514D 1286	BB04			
BB 37	8M99915000	LDA	00	8M99915050	SET BIT CHECK ADDR	1287	125124	125144 514D 1286	BB04			
BB 38	CHAR	-----	1287									

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8MU99	-	-	COMMENTS	LOC	OP SU	ADDRESS	PGLIN	SER REF
BC 01	SET	00	000007	-----	-----	-----	-----	-----	125129	B	0000C7 0007 1288	AU04	
BC 02	LDD	00	8MU9912254	-----	-----	-----	-----	-----	125134	8	123482 3482 1289	AU04	
BC 03	UNL	00	8MU9912254	-----	-----	-----	-----	-----	125134	8	123482 3482 1289	AU04	
BC 04	8MU9915050	RCVS	01	000000	INTO T-O	BIT CHECK ADDRESS	TEST FOR NO 1 BIT PICK	125149 *	1	125159 51V1 1302	BC08		
BC 05	UNL	01	8MU9915080	-----P	TEST FOR NO 1 BIT PICK	125144 U	1 000000 00#0 1301	125144 *	1	125159 51V1 1302	BC08		
BC 06	UNL	09	8MU9910940	-----P	TEST FOR NO 1 BIT PICK	125144	9 1222854 285D 1300	125144	7	9 1222854 20VD 1303	AS06		
BC 07	8MU9915080	TZB	02	8MU9915100	TEST FOR 2 BIT DROP	125159 *	2 125169 5101 1305	125164	1	125174 517D 1306	BC10		
BC 08	8MU9915080	TR	00	8MU9915110	TEST FOR 2 BIT DROP	125159	1 125169 5101 1305	125164	1	125174 517D 1306	BC12		
BC 09	8MU9915100	TR	08	8MU9910940-001	----D-	125169	7 8 1222853 205C 1307	125169	7	8 1222853 205C 1307	AS06		
BC 10	8MU9915100	UNL	08	8MU9910940-001	----D-	1308	125174 *	3 125184 51HD 1309	125174	7	9 1222852 20VB 1310	BC15	
BC 11	8MU9915110	TZB	04	8MU9915130	TEST FOR 4 BIT PICK	125174 *	3 125184 51HD 1309	125174	7	9 1222852 20VB 1310	BC15		
BC 12	8MU9915110	UNL	09	8MU9910940-002	----P--	1308	125174 *	3 125184 51HD 1309	125174	7	9 1222852 20VB 1310	BC15	
BC 13	8MU9915110	TZB	04	8MU9915130	TEST FOR 4 BIT PICK	125174 *	3 125184 51HD 1309	125174	7	9 1222852 20VB 1310	BC15		
BC 14	8MU9915130	TZB	08	8MU9915150	TEST FOR 8 BIT DROP	125184 *	4 125194 5/9D 1312	125189	1	125199 5191 1313	BC17		
BC 15	8MU9915130	TZB	08	8MU9915160	TEST FOR 8 BIT DROP	125184 *	4 125194 5/9D 1312	125189	1	125199 5191 1313	BC19		
BC 16	8MU9915180	TZB	00	8MU9915200	TEST FOR 8 BIT DROP	125209 *	6 125219 55J1 1319	125214	1	125224 522D 1320	BC24		
BC 17	8MU9915150	UNL	08	8MU9910940-003	----D---	1318	125209 *	6 125219 55J1 1319	125209	*	8 1222849 2041 1321	BC24	
BC 18	8MU9915160	TZB	09	8MU9915180	TEST FOR A BIT PICK	125199 *	5 125209 55J1 1316	125204	7	9 1222850 20V6 1317	BC22		
BC 19	8MU9915160	TZB	09	8MU9910940-004	----P---	1315	125199 *	5 125209 55J1 1316	125199	*	9 1222850 20V6 1317	BC22	093
BC 20	8MU9915180	UNL	09	8MU9910940-004	----P---	1315	125204	7	9 1222850 20V6 1317	BC22			
BC 21	8MU9915180	TZB	00	8MU9915200	TEST FOR B BIT DROP	1318	125209 *	6 125219 55J1 1319	125214	1	125224 522D 1320	BC26	
BC 22	8MU9915180	TZB	00	8MU9915200	TEST FOR B BIT DROP	1318	125209 *	6 125219 55J1 1319	125214	1	125224 522D 1320	BC26	
BC 23	8MU9915200	TR	00	8MU9915210	TEST FOR B BIT DROP	1318	125224	*	7 125234 55CD 1323	125224	*	8 1222848 20UH 1324	BC28
BC 24	8MU9915200	UNL	08	8MU9910940-005	----D---	1318	125224	*	7 125234 55CD 1323	125224	*	8 1222849 2041 1321	AS06
BC 25	8MU9915210	TZB	C	8MU9915250	TEST FOR NO C BIT PICK	1322	125224	*	7 125234 55CD 1323	1322	*	8 1222849 2041 1321	AS06
BC 26	8MU9915210	UNL	09	8MU9910940-006	P-----	1322	125224	*	7 125234 55CD 1323	1322	*	8 1222848 20UH 1324	BC28
BC 27	8MU9915250	SET	00	8MU9910940-006	P-----	1322	125224	*	7 125234 55CD 1323	1322	*	8 1222848 20UH 1324	BC28
BC 28	8MU9915250	UNL	00	8MU9910940-003	-----X	1326	125234	B	000001 0001 1325	125234	B	000001 0001 1325	AS06
BC 29	8MU9910940-003	UNL	00	8MU9910940-003	SHOULD-BE CHAR	1326	125234	B	000001 0001 1325	125234	B	000001 0001 1325	AS06
BC 30	8MU9910940-003	UNL	00	8MU9910940-003	INTO T-O	1327	125234	B	000001 0001 1325	125234	B	000001 0001 1325	AS06
BC 31	8MU9915620001	RCVS	01	8MU9915350	-----	1328	125249	U	1 125371 53XA 1329	125249	U	1 125371 53XA 1329	BD25
BC 32	8MU9915620001	TSL	01	8MU9915350	-----	1328	125249	U	1 125371 53XA 1329	125249	U	1 125371 53XA 1329	BD25
BC 33	8MU9915350	-----	1328	125249	U	1 125371 53XA 1329	125249	U	1 125371 53XA 1329	125249	U	1 125371 53XA 1329	BD25
BC 34	8MU9914510	TR	00	8MU9914510	-----	1331	125259	I	124939 4931 1332	125259	I	124939 4931 1332	BA27
BC 35	8MU9914510	TR	00	8MU9914510	-----	1331	125259	I	124939 4931 1332	1331	094	124939 4931 1332	BA27
BC 36	8MU9915350	SET	00	8MU99002	-----	1333	125264	B	000002 0002 1333	125264	B	000002 0002 1333	AS06
BC 37	8MU9910940	LOD	00	8MU9910940	INTO T-O	1333	125264	B	000002 0002 1333	125264	B	000002 0002 1333	AS06
BC 38	8MU9910940	UNL	00	8MU9910940	ERROR ADDRESS	1333	125264	B	000002 0002 1333	125264	B	000002 0002 1333	AS06
BC 39	8MU9910940	UNL	00	8MU9910940	INTO T-O	1333	125264	B	000002 0002 1333	125264	B	000002 0002 1333	AS06
BC 40	8MU9910940	UNL	00	8MU9910940	SET VAR ERROR CHAR ADDR	1333	125264	B	000002 0002 1333	125264	B	000002 0002 1333	AS06
BC 41	8MU9910940	UNL	00	8MU9910940	INTO T-O	1333	125264	B	000002 0002 1333	125264	B	000002 0002 1333	AS06



INDEX	TAG	OP	NU AT	OPERAEND	PROGRAM 8MU99	- - -	COMMENTS	LOC OP SU	ADDRESS	GLIN SER REF
BE 01		TSL	01	8MU9907500				125419 1	1 121734 17TD 1378	AL10
BE 02	8MU9916150	RCVS	01	8MU99109406001	TEST 6 BIT T-O POSITION			125424 U	2 122849 28UI 1379	AS06
BE 03		TZB	4	8MU9916250				125429 *	3 125464 54FD 1380	BE12
BE 04		TZB	A	8MU9916260				125434 *	5 125449 50UI 1381	BE08
BE 05		TITLE		8MU9910800-003				125439 8	15 122775 26GE 1383	AR30
BE 06		LOD	15	8MU9910800-003				125444 1	125454 545D 1384	BE10
BE 07		TR	00	8MU9916210				125449 8	15 122779 26GI 1385	AR31
BE 08	8MU9916200	LOD	15	8MU9910810-003						
BE 09		TITLE		8MU99079406001				125454 U	1 122056 20VF 1387	AN18
BE 10	8MU9916210	RCVS	01	8MU99079406001				125459 1	1 121744 17UD 1388	AL13
BE 11		TSL	01	8MU9907510						
BE 12	8MU9916250	RCVS	01	8MU99109406002	TEST A BIT T-O POSITION			125464 U	1 122850 28VE 1389	AS06
BE 13		TZB	4	8MU9916350				125469 *	3 125504 5560 1400	BE22
BE 14		TZB	A	8MU9916300				125474 *	5 125489 50UI 1401	BE18
BE 15		TITLE		8MU9910810-003						
BE 16		LOD	15	8MU991C800-003				125479 8	15 122775 26GE 1403	AR30
BE 17		TR	00	8MU9916310				125484 1	125494 549D 1404	BE20
BE 18	8MU9916300	LOD	15	8MU9910810-003				125489 8	15 122779 26GI 1405	AR31
BE 19		TITLE		8MU99079406001				125494 U	1 122056 20VF 1407	AN18
BE 20	8MU9916310	RCVS	01	8MU9907520				125499 1	1 121754 17UD 1408	098AL16
BE 21		TSL	01	8MU99109406003	TEST 8 BIT T-O POSITION					
BE 22	8MU9916350	RCVS	01	8MU99109406003	TEST 8 BIT T-O POSITION			125504 U	1 122851 28VA 1409	AS06
BE 23		TZB	4	8MU9916450				125509 *	3 125544 55DD 1410	BE32
BE 24		TZB	A	8MU9916400				125514 *	5 125529 5VSI 1411	BE28
BE 25		TITLE		8MU9910800-003				1412	125519 8 15 122775 26GE 1413	AR30
BE 26		LOD	15	8MU9910800-003				125524 1	125534 553D 1414	BE30
BE 27		TR	00	8MU9916410				1416	125529 8 15 122779 26GI 1415	AR31
BE 28	8MU9916400	LOD	15	8MU9910810-003						
BE 29		TITLE		8MU99079406001				1418	125534 U 1 122056 20VF 1417	AN18
BE 30	8MU9916410	RCVS	01	8MU9907530				125539 1	1 121764 17MD 1418	AL19
BE 31		TSL	01	8MU99109406003	TEST 4 BIT T-O POSITION			1419	125544 U 1 122652 28VE 1419	AS06
BE 32	8MU9916450	RCVS	01	8MU99109406004	TEST 4 BIT T-O POSITION			125549 *	3 125584 55HD 1420	BF04
BE 33		TZB	4	8MU9916550				125554 *	5 125569 5WVI 1421	BE38
BE 34		TZB	A	8MU9916500				1255564 1	125574 557D 1424	BF02
BE 35		TITLE		8MU9910810-003				125559 8 15 122775 26GE 1423	AR30	
BE 36		LOD	15	8MU9916510				125564 1	125574 557D 1424	BF02
BE 37		TR	00	8MU9916510				1422	099	

INDEX TAG OP NU AT OPERAND PROGRAM 8MU99 COMMENTS LOC OP SU ADDRESS PGLEN SER REF

BF 01 TITLE 8MU9916510 RCVS Q1 8MU99079406001 TSL Q1 8MU9907540 125574 U 1 122056 20VF 1427 AN18 1426

BF 02 8MU9916510 RCVS Q1 8MU99079406001 TSL Q1 8MU9907540 125579 1 1 121774 17XD 1428 AL22

BF 03 8MU9916510 RCVS Q1 8MU99079406001 TSL Q1 8MU9907540 125574 U 1 122056 20VF 1427 AN18 1426

BF 04 8MU9916550 RCVS Q1 8MU99169406005 TEST 2 BIT T-O POSITION 125584 U 1 1222853 28VC 1429 AS06

BF 05 8MU9916550 RCVS Q1 8MU9916650 TEST 2 BIT T-O POSITION 125589 • 3 1225624 56BD 1430 BE14 125594 • 5 1225609 5W#1 1431 BF10

BF 06 8MU9916610 RCVS Q1 8MU9916610 TR 00 8MU9910800-003 125599 8 15 122775 2GGE 1433 AR30 1432 125604 1 1225614 561D 1434 BF12

BF 07 TITLE 8MU9916600 L0D 15 8MU9910810-003 125609 8 15 122779 2GGE 1435 AR31

BF 08 8MU9916600 L0D 15 8MU9910800-003 125614 U 1 122056 20VF 1437 AN18 1436 125619 1 1 121784 17YD 1438 100AL25

BF 09 8MU9916610 RCVS Q1 8MU99079406001 TSL Q1 8MU9907550 125614 U 1 122056 20VF 1437 AN18 1436 125629 • 3 1225664 56FD 1440 BF26 125634 • 5 1225649 5WUI 1441 BF20

BF 10 8MU9916600 L0D 15 8MU9910810-003 125639 8 15 122775 2GGE 1443 AR30 1442 125644 1 1225654 565D 1444 BF22

BF 11 TITLE 8MU9916650 RCVS Q1 8MU99109406006 TEST 1 BIT T-O POSITION 125624 U 1 1222854 28VD 1439 AS06

BF 12 8MU9916610 RCVS Q1 8MU99079406001 TSL Q1 8MU9907550 125629 • 3 1225664 56FD 1440 BF26 125634 • 5 1225649 5WUI 1441 BF20

BF 13 8MU9916610 RCVS Q1 8MU99079406001 TSL Q1 8MU9907550 12564 U 1 122056 20VF 1437 AN18 1436 125614 U 1 122056 20VF 1437 AN18 1436 125619 1 1 121784 17YD 1438 100AL25

BF 14 8MU9916650 RCVS Q1 8MU99109406006 TEST 1 BIT T-O POSITION 125624 U 1 1222854 28VD 1439 AS06

BF 15 8MU9916710 RCVS Q1 8MU99079406001 TSL Q1 8MU9907560 125629 • 3 1225664 56FD 1440 BF26 125634 • 5 1225649 5WUI 1441 BF20

BF 16 8MU9916710 RCVS Q1 8MU99079406001 TSL Q1 8MU9907560 125634 • 5 1225649 5WUI 1441 BF20

BF 17 TITLE 8MU9916700 L0D 15 8MU9910810-003 125649 8 15 122779 2GGE 1445 AR31

BF 18 8MU9916700 L0D 15 8MU9910800-003 125639 8 15 122775 2GGE 1443 AR30 1442 125644 1 1225654 565D 1444 BF22

BF 19 8MU9916700 L0D 15 8MU9910810-003 125649 8 15 122779 2GGE 1445 AR31

BF 20 8MU9916700 L0D 15 8MU9910810-003 125649 8 15 122779 2GGE 1445 AR31

BF 21 TITLE 8MU9916710 RCVS Q1 8MU99079406001 TSL Q1 8MU9907560 125654 U 1 122056 20VF 1447 AN18 1446 125654 U 1 122056 20VF 1447 AN18 1446 125659 1 1 121794 17ZD 1448 AL28

BF 22 8MU9916710 RCVS Q1 8MU99079406001 TSL Q1 8MU9907560 125659 1 1 121794 17ZD 1448 AN18 1446 125654 U 1 122056 20VF 1447 AN18 1446 125659 1 1 121794 17ZD 1448 AL28

BF 23 8MU9916710 RCVS Q1 8MU99079406001 TSL Q1 8MU9907560 125659 1 1 121794 17ZD 1448 AN18 1446 125654 U 1 122056 20VF 1447 AN18 1446 125659 1 1 121794 17ZD 1448 AL28

BF 24 TITLE 8MU9916750 TR 00 8MU9915600 125664 1 125354 535D 1451 BD19

BF 25 TITLE 8MU9916750 TR 00 8MU9915600 125664 1 125354 535D 1451 BD19

BF 26 TITLE 8MU9916750 TR 00 8MU9915600 125664 1 125354 535D 1451 BD19

BF 27 8MU9920170 SET 00 800006 125679 7 122820 8226 1455 AS02 1452 125679 7 122820 8226 1455 AS02

BF 28 8MU9920170 SET 00 800006 125674 8 122839 2831 1453 AS02 1452 125674 8 122839 2831 1453 AS02

BF 29 8MU9920170 SET 00 800006 125669 B 000022 0022 1456 BX30 125669 B 000022 0022 1456 BX30

BF 30 8MU9920170 SET 00 800006 125684 B 128242 8248 1458 BX30 125684 B 128242 8248 1458 BX30

BF 31 8MU9920170 SET 00 800006 125689 8 128328 832H 1457 BX30 125689 8 128328 832H 1457 BX30

BF 32 8MU9920170 SET 00 800006 125699 B 128242 8248 1458 BX30 125699 B 128242 8248 1458 BX30

BF 33 8MU9920170 SET 00 800006 125704 8 128219 8221 1460 BX22 125704 8 128219 8221 1460 BX22

BF 34 8MU9920170 SET 00 800006 125709 4 128273 827C 1461 BX21 125709 4 128273 827C 1461 BX21

BF 35 8MU9920170 SET 00 800006 125724 L 125754 575D 1465 BMW20 125724 L 125754 575D 1465 BMW20

BF 36 8MU9920170 SET 00 800006 125729 4 128218 8KJH 1466 3W21 125729 4 128218 8KJH 1466 3W21

BF 37 8MU9920170 SET 00 800006 125729 4 128218 8KJH 1466 3W21 125729 4 128218 8KJH 1466 3W21

BF 38 TITLE 8MU9929020 10 8MU9929030 IN HUNDREDS TH 842 DOWN 125724 L 125754 575D 1465 BMW20

BF 39 TITLE 8MU9929020 10 8MU9929030 IN HUNDREDS TH 842 DOWN 125729 4 128218 8KJH 1466 3W21

BF 40 TITLE 8MU9929020 10 8MU9929030 IN HUNDREDS TH 842 DOWN 125724 L 125754 575D 1465 BMW20

BF 41 TITLE 8MU9929020 10 8MU9929030 IN HUNDREDS TH 842 DOWN 125729 4 128218 8KJH 1466 3W21

INDEX	TAG	CP	MU AT	OPERAND	PROGRAM	8MU99	-	COMMENTS	LOC OP SU	ADDRESS	GLIN SER REF
36 01	TRC	00	8MU9920450	TH NOT 0-H 842 DOWN	TH NOT 0-H 842 DOWN	8MU992040	CMR	125734 L	125779 571	1467	BG11
36 02	TRC	10	8MU992040	IN TEENS	IN TEENS	8MU9920600	CMR	125739 4	10 128219 8KJ1	1468	102B22
36 03	TRC	00	8MU9920600	TH NOT 0-H NOT 0-T 842 DOWN	TH NOT 0-H NOT 0-T 842 DOWN	8MU992040	CMR	125744 L	125794 5790	1469	BG15
36 04	TRC	00	8MU9923000	GO TO MARY COND LINE DETERMINE	GO TO MARY COND LINE DETERMINE	8MU9923000	CMR	125749 1	126514 6510	1470	BL09
36 05	8MU9920400	CMR	10	8MU992030	TEST FOR 0 IN HUNDREDS	125754 4	10 128216 8KJH	1471	125759 L	125999 5991	1472
36 06	TRC	00	8MU9921200	TH 842 DOWN-H 842 DOWN-T NOT 0	TH 842 DOWN-H 842 DOWN-T NOT 0	8MU992040	CMR	125759 L	125999 5991	1472	BH27
36 07	TRC	00	8MU9921400	TH 842 DOWN-H NOT 0-T 842 DOWN	TH 842 DOWN-H NOT 0-T 842 DOWN	8MU9921400	CMR	125764 4	10 128219 8KJ1	1473	BW22
36 08	TRC	00	8MU9921600	TH 842 DOWN-H NOT 0-T NOT 0	TH 842 DOWN-H NOT 0-T NOT 0	8MU9921600	CMR	125769 L	126049 6041	1474	BH01
36 09	TR	00	8MU9921600	TH 842 DOWN-H NOT 0-T NOT 0	TH 842 DOWN-H NOT 0-T NOT 0	8MU9921600	CMR	125774 1	126094 6090	1475	BH15
36 10	TR	00	8MU9922200	TH NOT 0-H 842 DOWN-T 842 DOWN	TH NOT 0-H 842 DOWN-T 842 DOWN	8MU9922200	CMR	125774 10	128219 8KJ1	1477	BW22
36 11	8MU9920450	CMR	10	8MU992040	TEST FOR 0 IN TENS	8MU9922400	CMR	125779 4	10 128219 8KJ1	1477	BW22
36 12	TR	00	8MU9922200	TH NOT 0-H 842 DOWN-T 842 DOWN	TH NOT 0-H 842 DOWN-T 842 DOWN	8MU9922200	CMR	125784 L	126274 6270	1478	BH24
36 13	TR	00	8MU9922400	TH NOT 0-H 842 DOWN-T NOT 0	TH NOT 0-H 842 DOWN-T NOT 0	8MU9922400	CMR	125784 L	126324 6320	1479	BH39
36 14	TR	00	8MU9921000	NO 800	NO 800	8MU9920700	RCVS	125794 U	1 128217 82/6	1481	BW20
36 15	8MU9920600	RCVS	01	8MU9929020	TEST FOR NO 8000	8MU9929030	RCVS	125799 *	4 125639 5Y31	1482	103BG26
36 16	TR	00	8MU9921000	NO 800	NO 800	8MU9920700	RCVS	125804 U	1 128218 82/H	1483	BW21
36 17	TR	00	8MU9921000	TEST FOR NO 8000	TEST FOR NO 8000	8MU9929030	RCVS	125804 *	4 125639 5Y31	1482	BW20
36 18	TR	00	8MU9921000	NO 800	NO 800	8MU9921000	RCVS	125809 *	4 125954 5Z5D	1484	BH15
36 19	TR	00	8MU9921000	NO 800	NO 800	8MU9921000	RCVS	125814 U	1 128224 8KBD	1486	BW32
36 20	TR	00	8MU9930040	PLACE 1 IN MAR 5	PLACE 1 IN MAR 5	8MU9930040	RCVS	125814 U	1 128224 8KBD	1486	BW32
36 21	TR	00	8MU9930050	PLACE 1 IN MAR 5	PLACE 1 IN MAR 5	8MU9930050	RCVS	125819 7	11 128225 8KBE	1487	BW33
36 22	TR	00	8MU9930060	IN MAR 6	IN MAR 6	8MU9930060	RCVS	125824 7	11 128226 8KBF	1488	BW34
36 23	TR	00	8MU9930080	IN MAR 7	IN MAR 7	8MU9930080	RCVS	125829 7	11 128229 8KBI	1489	BW37
36 24	TR	00	8MU9925000	GO TO X TAB	GO TO X TAB	8MU9925000	RCVS	125834 1	127029 7021	1500	BH31
36 25	TR	00	8MU9925000	IN MAR 11	IN MAR 11	8MU9925000	RCVS	125834 1	127029 7021	1500	BH31
36 26	TR	00	8MU9929030	TEST FOR NO 800	TEST FOR NO 800	8MU9929030	RCVS	125839 U	1 128218 82/H	1502	BW21
36 27	TR	00	8MU9929030	TEST FOR NO 800	TEST FOR NO 800	8MU9929030	RCVS	125844 *	4 125889 5Y81	1503	BG40
36 28	TR	00	8MU9930040	PLACE 1 IN MAR 10	PLACE 1 IN MAR 10	8MU9930040	RCVS	125849 7	11 128224 8KBD	1505	BW20
36 29	TR	00	8MU9930050	PLACE 1 IN MAR 11	PLACE 1 IN MAR 11	8MU9930050	RCVS	125854 U	1 128217 82/G	1506	BW20
36 30	TR	00	8MU9930060	GO TO X TAB	GO TO X TAB	8MU9930060	RCVS	125859 *	3 125869 58FI	1507	104BG34
36 31	TR	00	8MU9920760	TEST FOR NO 4000	TEST FOR NO 4000	8MU9920760	RCVS	125859 *	3 125869 58FI	1507	104BG34
36 32	TR	00	8MU9930070	TEST FOR NO 2000	TEST FOR NO 2000	8MU9930070	RCVS	125864 7	11 128226 8KBF	1509	BW36
36 33	TR	00	8MU9930070	PLACE 1 IN MAR 10	PLACE 1 IN MAR 10	8MU9930070	RCVS	125864 7	11 128226 8KBF	1509	BW36
36 34	TR	00	8MU9920760	TEST FOR NO 2000	TEST FOR NO 2000	8MU9920760	RCVS	125869 *	2 125884 580D	1511	BG38
36 35	TR	00	8MU9920790	TEST FOR NO 2000	TEST FOR NO 2000	8MU9920790	RCVS	125874 *	2 125884 580D	1511	BW20
36 36	TR	00	8MU9930080	PLACE 1 IN MAR 11	PLACE 1 IN MAR 11	8MU9930080	RCVS	125879 7	11 128229 8KBI	1513	BW37
36 37	TR	00	8MU9925000	GO TO X TAB	GO TO X TAB	8MU9925000	RCVS	125884 1	127029 7021	1514	BW31
36 38	TR	00	8MU9925000	TEST FOR NO 4000	TEST FOR NO 4000	8MU9925000	RCVS	125894 *	3 125904 596D	1517	BW20
36 39	TR	00	8MU9930050	TEST FOR NO 4000	TEST FOR NO 4000	8MU9930050	RCVS	125899 U	1 128217 82/G	1516	BW20
36 40	TR	00	8MU9929020	PLACE 1 IN MAR 6	PLACE 1 IN MAR 6	8MU9929020	RCVS	125899 7	11 128225 8KBI	1517	BW20
36 41	TR	00	8MU9929020	TEST FOR NO 4000	TEST FOR NO 4000	8MU9929020	RCVS	125899 *	3 125904 596D	1517	BW20
36 42	TR	00	8MU9930050	TEST FOR NO 4000	TEST FOR NO 4000	8MU9930050	RCVS	125899 7	11 128225 8KBE	1519	BW33



INDEX	TAG	OP	NU AT	OPERAND	PROGRAM	8M999	-	COMMENTS	LOC OP SU	ADDRESS	PGLIN	SER REF
BI 01	8M99921400	RCVS	01	8M9992030	8M99921440	TEST FOR NO 800			126049 U	1 128218 82/H 1561	126054 .	4 126069 6#61 1562
BI 02	8M99921400	RCVS	02	8M9992030	8M99921440	TEST FOR NO 800						BI07
BI 03	8M99921400	TR	00	8M9993040	8000 DOWN-800 UP-80 DOWN	PLACE 1 IN MAR 5	126059 7	11 128224 8KBD 1564	126064 1	127029 7021 1565	BI05	
BI 04	8M99921400	UNL	11	8M9993040	8000 DOWN-800 UP-80 DOWN	PLACE 1 IN MAR 5	1563					
BI 05	8M99921400	TR	00	8M99925000	GO TO X TAB		126064 1		127029 7021 1565	BI03		
BI 06	8M99921440	TR	4	8M99921460	TEST FOR NO 400		126069 .	3 126079 6061 1567	126066	BI10		
BI 07	8M99921440	TR	4	8M99921460	TEST FOR NO 400							
BI 08	8M99921440	TEST FOR NO 400					1566					
BI 09	8M99921460	TR	02	8M9993070	PLACE 1 IN MAR 10	TEST FOR NO 200	126074 7	11 128228 8KBD 1569	126075 .	2 126089 6001 1570	BI13	
BI 10	8M99921460	UNL	11	8M9993070	PLACE 1 IN MAR 10	TEST FOR NO 200	1568					
BI 11	8M99921460	UNL	11	8M9993080	PLACE 1 IN MAR 11	TEST FOR NO 200	126084 7	11 128229 8KBD 1572	126089 3	127029 7021 1573	BI03	
BI 12	8M99921460	UNL	00	8M99925000	GO TO X TAB	TEST FOR NO 200	1571					
BI 13	8M99921480	TR	00	8M9993080	PLACE 1 IN MAR 11	TEST FOR NO 200	126084 7	11 128229 8KBD 1572	126089 3	127029 7021 1573	BI03	
BI 14	8M99921600	RCVS	01	8M9992030	TH 842 DOWN-H NOT 0-T NOT 0	TEST FOR NO 800	1574					
BI 15	8M99921600	RCVS	01	8M9992030	TH 842 DOWN-H NOT 0-T NOT 0	TEST FOR NO 800	126094 U	1 128218 82/H 1575	126099 .	4 126134 6/3D 1576	108B125	
BI 16	8M99921700	TR	01	8M9992040	TEST FOR NO 800	TEST FOR NO 800	126104 U	1 128219 82/I 1577	126109 .	4 126239 6531 1578	BI18	
BI 17	8M99921700	RCVS	01	8M9992040	TEST FOR NO 800	TEST FOR NO 800	126110					
BI 18	8M99921700	TR	8	8M9992040	TEST FOR NO 80	TEST FOR NO 80	126114 U	1 128224 8KBD 1580	126119 7	11 128225 8KBE 1581	BI20	
BI 19	8M99921700	UNL	11	8M9993040	PLACE 1 IN MAR 5	TEST FOR NO 80	126114 7	11 128224 8KBD 1580	126119 7	11 128225 8KBE 1581	BI22	
BI 20	8M99921700	UNL	11	8M9993050	PLACE 1 IN MAR 6	TEST FOR NO 80	126114 7	11 128224 8KBD 1580	126119 7	11 128225 8KBE 1581	BI23	
BI 21	8M99921700	UNL	11	8M9993060	PLACE 1 IN MAR 7	TEST FOR NO 80	126114 7	11 128224 8KBD 1580	126124 7	11 128226 8KBF 1582	BI24	
BI 22	8M99921700	UNL	11	8M9993060	PLACE 1 IN MAR 7	TEST FOR NO 80	126119 7	11 128225 8KBE 1581	126124 7	11 128226 8KBF 1582	BI25	
BI 23	8M99921700	TR	00	8M99925000	GO TO X TAB	TEST FOR NO 80	126129 1		127029 7021 1583	BI031		
BI 24	8M99921700	RCVS	01	8M9992040	TH 842 DOWN-800 DOWN-T NOT 0	TEST FOR NO 80	1584					
BI 25	8M99921700	RCVS	01	8M9992040	TH 842 DOWN-800 DOWN-T NOT 0	TEST FOR NO 80	126134 U	1 128219 82/I 1585	126139 .	4 126184 6/8D 1586	BI22	
BI 26	8M99921700	RCVS	01	8M9992040	TEST FOR NO 80	TEST FOR NO 80	1584					
BI 27	8M99921700	UNL	11	8000 DOWN-800 UP	8000 DOWN-800 UP	TEST FOR NO 400	126144 7	11 128224 8KBD 1588	126149 .	3 126169 61F1 1601	109B134	
BI 28	8M99921700	UNL	11	8M9993040	PLACE 1 IN MAR 5	TEST FOR NO 400	126144 7	11 128224 8KBD 1588	126149 7	11 128225 8KBE 1589	BI29	
BI 29	8M99921700	RCVS	01	8M9993050	PLACE 1 IN MAR 6	TEST FOR NO 400	126149 7	11 128225 8KBE 1589	126149 U	1 128218 82/H 1600	BI21	
BI 30	8M99921700	RCVS	01	8M9993060	PLACE 1 IN MAR 7	TEST FOR NO 400	126149 U	1 128218 82/H 1600	126154 U	1 128218 82/H 1600	BI30	
BI 31	8M99921700	TR	4	8M9992170	TEST FOR NO 400	TEST FOR NO 400	126154 U	1 128218 82/H 1600	126154 U	1 128218 82/H 1600	BI31	
BI 32	8M99921700	UNL	11	8M9993070	PLACE 1 IN MAR 10	TEST FOR NO 200	126164 7	11 128228 8KBD 1603	126164 7	11 128228 8KBD 1603	BI33	
BI 33	8M99921700	UNL	11	8M9993070	PLACE 1 IN MAR 11	TEST FOR NO 200	126164 7	11 128228 8KBD 1603	126164 7	11 128228 8KBD 1603	BI32	
BI 34	8M99921700	TR	02	8M9992170	TEST FOR NO 200	TEST FOR NO 200	126169 .		126169 .	2 126179 61F1 1604	BI37	
BI 35	8M99921700	UNL	11	8M9993080	PLACE 1 IN MAR 11	TEST FOR NO 200	126174 7	11 128229 8KBD 1606	126174 7	11 128229 8KBD 1606	BI36	
BI 36	8M99921700	TR	00	8M99925000	GO TO X TAB	TEST FOR NO 200	126175 1		126175 1	127029 7021 1607	BI37	
BI 37	8M99921700	TR	00	8M99925000	GO TO X TAB	TEST FOR NO 200	126179 1		126179 1	127029 7021 1607	BI35	
BI 38	8M99921800	RCVS	01	8M9992030	8000 DOWN-800 DOWN	TEST FOR NO 400	126184 U	1 128218 82/H 1609	126184 .	3 126199 61F1 1610	BI40	
BI 39	8M99921800	RCVS	01	8M9992030	8000 DOWN-800 DOWN	TEST FOR NO 400	126184 U	1 128218 82/H 1609	126184 .	3 126199 61F1 1610	BI41	
BI 40	8M99921800	TR	4	8M9992180	TEST FOR NO 400	TEST FOR NO 400	126184 .		126184 .	3 126199 61F1 1610	BI41	

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BJ_01	8M9921830	TZB	02	8M9930070	PLACE 1 IN MAR 10	TEST FOR NO 200	126194 7 11 128228 8KBH 1612	126209 2 126209 62-I	BJ036	BW36
BJ_02	8M9921830	TZB	02	8M9921850	PLACE 1 IN MAR 10	TEST FOR NO 200	126199 2 126209 62-I	126209 2 126209 62-I	BJ035	BW36
BJ_03	8M9921830	TZB	02	8M9930080	PLACE 1 IN MAR 11	TEST FOR NO 40	12624 126224 62BD 1617	12624 126224 62BD 1617	BJ037	BW37
BJ_04	8M9921850	TZB	04	8M9921880	TEST FOR NO 40	126209 U 1 128229 8KB1 1615	126209 U 1 128229 8KB1 1615	BJ038	BW38	
BJ_05	8M9921850	RCVS	01	8M9930080	PLACE 1 IN MAR 11	TEST FOR NO 40	12624 7 11 128229 8KB1 1615	12624 7 11 128229 8KB1 1615	BJ039	BW39
BJ_06	8M9921850	TZB	04	8M9921880	TEST FOR NO 40	126209 U 1 128219 82/I 1616	126209 U 1 128219 82/I 1616	BJ040	BW37	
BJ_07	8M9921880	TZB	04	8M9921880	TEST FOR NO 40	12624 3 126224 62BD 1617	12624 3 126224 62BD 1617	BJ041	BW37	
BJ_08	8M9921880	TZB	02	8M9930090	PLACE 1 IN MAR 12	TEST FOR NO 20	126219 7 11 128230 8KC6 1619	126219 7 11 128230 8KC6 1619	BJ042	BW38
BJ_09	8M9921880	TZB	02	8M9930100	PLACE 1 IN MAR 13	TEST FOR NO 20	126229 7 11 128231 8KC6 1622	126229 7 11 128231 8KC6 1622	BJ043	BW39
BJ_10	8M9921880	TZB	02	8M9930100	PLACE 1 IN MAR 13	TEST FOR NO 20	126224 2 126234 62LD 1620	126224 2 126234 62LD 1620	BJ044	BW38
BJ_11	8M9921900	TZB	02	8M9930100	PLACE 1 IN MAR 13	TEST FOR NO 20	126229 1 127029 702I 1623	126229 1 127029 702I 1623	BJ045	BW39
BJ_12	8M9921900	TZB	02	8M9930100	PLACE 1 IN MAR 13	TEST FOR NO 20	1621 126229 7 11 128231 8KC6 1622	1621 126229 7 11 128231 8KC6 1622	BJ046	BW39
BJ_13	8M9922000	UNL	11	8M9930100	PLACE 1 IN MAR 13	TEST FOR NO 20	126234 1 127029 702I 1623	126234 1 127029 702I 1623	BJ047	BW39
BJ_14	8M9922000	UNL	11	8M9930100	PLACE 1 IN MAR 5	TEST FOR NO 40	1624 126239 7 11 128224 8KB1 1625	1624 126239 7 11 128224 8KB1 1625	BJ048	BW32
BJ_15	8M9922000	RCVS	01	8M9930100	PLACE 1 IN MAR 5	TEST FOR NO 40	126244 U 1 128219 32/I 1626	126244 U 1 128219 32/I 1626	BJ049	BW32
BJ_16	8M9922040	TZB	04	8M9922040	TEST FOR NO 40	126249 3 126259 62EI 1627	126249 3 126259 62EI 1627	BJ050	BW32	
BJ_17	8M9922040	TZB	02	8M9922060	PLACE 1 IN MAR 12	TEST FOR NO 20	126254 7 11 128230 8KC6 1629	126254 7 11 128230 8KC6 1629	BJ051	BW38
BJ_18	8M9922040	TZB	02	8M9930100	PLACE 1 IN MAR 13	TEST FOR NO 20	1628 126259 2 126269 62O1 1630	1628 126259 2 126269 62O1 1630	BJ052	BW32
BJ_19	8M9922040	TZB	02	8M9930100	PLACE 1 IN MAR 13	TEST FOR NO 20	126264 7 11 128231 8KC6 1632	126264 7 11 128231 8KC6 1632	BJ053	BW39
BJ_20	8M9922060	TR	00	8M9930100	PLACE 1 IN MAR 13	TEST FOR NO 20	126264 7 11 128231 8KC6 1632	126264 7 11 128231 8KC6 1632	BJ054	BW39
BJ_21	8M9922060	UNL	11	8M9930100	PLACE 1 IN MAR 13	TEST FOR NO 20	1631 126269 1 127029 702I 1633	1631 126269 1 127029 702I 1633	BJ055	BW31
BJ_22	8M9922060	TR	00	8M9930100	PLACE 1 IN MAR 13	TEST FOR NO 20	126274 U 1 128217 82/I 1635	126274 U 1 128217 82/I 1635	BJ056	BW20
BJ_23	8M9922060	RCVS	01	8M9930200	TH NOT 0-H 842 DOWN-T 842 DOWN	TEST FOR NO 8000	1634 126279 4 126299 6591 1636	1634 126279 4 126299 6591 1636	BJ057	BW20
BJ_24	8M9922060	RCVS	01	8M9930200	TH NOT 0-H 842 DOWN-T 842 DOWN	TEST FOR NO 8000	126269 1 127029 702I 1640	126269 1 127029 702I 1640	BJ058	BW34
BJ_25	8M9922060	RCVS	01	8M9930400	PLACE 1 IN MAR 5	TEST FOR NO 2000	126284 7 11 128224 8KB1 1638	126284 7 11 128224 8KB1 1638	BJ059	BW32
BJ_26	8M9922060	RCVS	01	8M9930400	PLACE 1 IN MAR 5	TEST FOR NO 2000	1637 126279 7 11 128224 8KB1 1639	1637 126279 7 11 128224 8KB1 1639	BJ060	BW34
BJ_27	8M9922060	UNL	11	8M9930400	PLACE 1 IN MAR 5	TEST FOR NO 2000	126289 7 11 128226 8KB1 1639	126289 7 11 128226 8KB1 1639	BJ061	BW32
BJ_28	8M9922060	TR	00	8M9930600	GO TO X TAB	TEST FOR NO 7000	126294 1 127029 702I 1640	126294 1 127029 702I 1640	BJ062	BW34
BJ_29	8M9922060	TR	00	8M9930600	GO TO X TAB	TEST FOR NO 7000	126294 1 127029 702I 1640	126294 1 127029 702I 1640	BJ063	BW34
BJ_30	8M9922250	TZB	04	8M9922270	8000 DOWN-80 DOWN	TEST FOR NO 4000	126299 3 126309 6361 1642	126299 3 126309 6361 1642	BJ064	BW34
BJ_31	8M9922250	TZB	04	8M9922270	8000 DOWN-80 DOWN	TEST FOR NO 4000	126309 4 126319 6361 1645	126309 4 126319 6361 1645	BJ065	BW33
BJ_32	8M9922250	TITLE	11	8M9930600	PLACE 1 IN MAR 7	GO TO X TAB	126314 7 11 128226 8KB1 1647	126314 7 11 128226 8KB1 1647	BJ066	BW34
BJ_33	8M9922270	TZB	02	8M9922290	PLACE 1 IN MAR 6	TEST FOR NO 2000	126304 7 11 128225 8KB1 1644	126304 7 11 128225 8KB1 1644	BJ067	BW33
BJ_34	8M9922270	TZB	02	8M9930600	TEST FOR NO 2000	TEST FOR NO 2000	126309 4 126319 6361 1645	126309 4 126319 6361 1645	BJ068	BW33
BJ_35	8M9922270	TITLE	11	8M9930600	PLACE 1 IN MAR 7	GO TO X TAB	126314 7 11 128226 8KB1 1647	126314 7 11 128226 8KB1 1647	BJ069	BW34
BJ_36	8M9922290	UNL	11	8M9930600	TEST FOR NO 8000	TEST FOR NO 8000	126319 1 127029 702I 1648	126319 1 127029 702I 1648	BJ070	BW34
BJ_37	8M9922290	TR	00	8M9930600	GO TO X TAB	TEST FOR NO 8000	126319 1 127029 702I 1648	126319 1 127029 702I 1648	BJ071	BW34
BJ_38	8M9922400	RCVS	01	8M9929020	TH NOT 0-H 842 DOWN-T NOT 0	TEST FOR NO 8000	126324 U 1 128217 82/I 1650	126324 U 1 128217 82/I 1650	BJ072	BW20
BJ_39	8M9922400	RCVS	01	8M9929040	TEST FOR NO 8000	TEST FOR NO 8000	126329 4 126369 6161 1651	126329 4 126369 6161 1651	BJ073	BK09
BJ_40	8M9922400	TZB	08	8M9929040	TEST FOR NO 8000	TEST FOR NO 8000	126329 4 126369 6161 1650	126329 4 126369 6161 1650	BJ074	BW20
BJ_41	8M9922400	RCVS	01	8M9929040	TEST FOR NO 8000	TEST FOR NO 8000	126334 U 1 128219 82/I 1652	126334 U 1 128219 82/I 1652	BJ075	BK09

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BK 01		128	8	8MU9922800	TEST FOR NO 80		126339 .	4 126474 6UTD 1653	112BK39
BK 02				8000 UP-800 DOWN-80 UP					
BK 03				8MU9930040	PLACE 1 IN MAR 5		126344 7 11 128244 8KBD 1655		BW32
BK 04				8MU9930050	IN MAR 6		126349 7 11 128225 8KBE 1656		BW33
BK 05				8MU9930060	IN MAR 7		126354 7 11 128226 8KBF 1657		BW34
BK 06				8MU9930070	IN MAR 10		126359 7 11 128228 8KBH 1658		BW35
BK 07				8MU9925000	GO TO X TAB		126364 1 127029 7021 1659		BW36
BK 08				8000 DOWN-H 842 DOWN-T NOT 0					B031
BK 09				8MU9929040					
BK 10				8MU9929040					
BK 11				8MU992600 RCVS 01	TEST FOR NO 80		126369 U 1 128219 8Z/1 1661		BW22
BK 12				8MU9922500 RCVS 01	PLAC 1 IN MAR 5		126374 . 4 126419 6UI/1 1662		BK23
BK 13				8MU9930040	PLAC 1 IN MAR 5		126389 U 1 128224 8KBD 1664		BW32
BK 14				8MU9930050	1 IN MAR 6		126384 7 11 128225 8KBE 1665		BW33
BK 15				8MU992500	TEST FOR NO 4000		126389 U 1 128217 8Z/6 1666		BW34
BK 16				8MU9922500 RCVS 01	TEST FOR NO 2000		126394 . 3 126404 64CD 1667		BK18
BK 17				8MU9930090	PLACE 1 IN MAR 12		126399 7 11 128230 8KCE 1669		BW38
BK 18				8MU9922570 TZB 02	TEST FOR NO 2000		126404 . 2 126414 64JD 1670		BW38
BK 19				8MU9922590 TZB 02	PLACE 1 IN MAR 12		126409 7 11 128231 8KCA 1672		BK21
BK 20				8MU9930100 TZB 00	PLACE 1 IN MAR 13		126414 1 127029 7021 1673		BW39
BK 21				8MU9922590 TR 00	GO TO X TAB		126409 7 11 128231 8KCA 1672		BW39
BK 22				8000 DOWN-800 DOWN-80 DOWN					B031
BK 23				8MU9922600 RCVS 01	TEST FOR NO 4000		126419 U 1 128217 8Z/6 1675		BW20
BK 24				8MU9922630 TZB 02	TEST FOR NO 2000		126424 . 3 126434 64CD 1676		BK27
BK 25				8MU9930050 TZB 02	PLACE 1 IN MAR 6		126429 7 11 128225 8KBE 1678		BW33
BK 26				8MU9930060 TZB 02	PLACE 1 IN MAR 7		126439 U 1 128219 8Z/2/I 1682		BW34
BK 27				8MU9922630 TZB 02	TEST FOR NO 2000		126444 . 2 126444 64MD 1679		BK30
BK 28				8MU9930050 TZB 02	PLACE 1 IN MAR 6		126444 . 3 126459 64EI 1683		BK34
BK 29				8MU9930060 TZB 02	PLACE 1 IN MAR 7		126444 U 1 128226 8KBF 1681		BW22
BK 30				8MU9922650 RCVS 01	TEST FOR NO 40		126444 U 1 128219 8Z/2/I 1682		BW38
BK 31				8MU9922650 TZB 02	TEST FOR NO 40		126444 . 2 126469 640I 1686		114BK37
BK 32				8MU9930100 TZB 02	TEST FOR NO 20		126454 7 11 128230 8KCE 1685		BW38
BK 33				8MU9922680 TZB 02	TEST FOR NO 12		126459 . 2 126469 640I 1686		BK34
BK 34				8MU9930100 TZB 02	TEST FOR NO 13		126464 7 11 128231 8KCA 1688		BW39
BK 35				8MU9922700 TZB 00	PLACE 1 IN MAR 13		126464 7 11 128231 8KCA 1688		B031
BK 36				8MU9930100 UNL 11	GO TO X TAB		126464 7 11 128231 8KCA 1688		BW39
BK 37				8MU9922700 UNL 11	TEST FOR NO 40		126464 7 11 128231 8KCA 1688		BK42
BK 38				8000 UP-800 DOWN-80 DOWN					
BK 39				8MU9922800 UNL 11	PLACE 1 IN MAR 5		126489 . 3 126499 64II 1704		BW22
BK 40				8MU9930060 UNL 11	IN MAR 7		126489 U 1 128219 8Z/2/I 1703		BW34
BK 41				8MU9929040 UNL 11	TEST FOR NO 40		126489 U 1 128226 8KBF 1702		BW32
BK 42				8MU9922850 UNL 11	TEST FOR NO 40		126489 U 1 128226 8KBF 1702		BW32

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BL 01				TITLE	BMU9930090	PLACE 1 IN MAR 12	126494 7 II 128230 8KCE 1706	BL06	
BL 02			UNL	11	BMU9922850	TEST FOR NO 20	126499 . 2 126509 65-I 1707	BL06	
BL 03			UNL	11	BMU9930090	PLACE 1 IN MAR 12	126494 7 II 128230 8KCE 1706	BL06	
BL 04			TITLE			BCD TO BINARY-NO ZEROS	1708		
BL 05			UNL	11	BMU9930100	PLACE 1 IN MAR 13	126504 7 II 128231 8KCA 1709	BM39	BL03
BL 06			TR	00	BMU9922870	GO TO X TAB	126509 1 127029 702-I 1710	BM39	
BL 07			TITLE			BCD TO BINARY-NO ZEROS	1711		
BL 08			DETERMINE MAR Y CONDITION LINE		BMU9929020	TEST FOR NO 800	126514 U I 128217 82/6 1713	BMW20	
BL 09			RCVS	01	BMU9923000	TEST FOR NO 800	126519 . 4 126574 6V7D 1714	I15BL23	
BL 10			RCVS	01	BMU9923150	TEST FOR NO 8000	126524 U I 128218 82/H 1715	BMW21	
BL 11			RCVS	01	BMU9929030	TEST FOR NO 800	126529 . 4 126854 6Y5D 1716	BN20	
BL 12			RCVS	01	BMU9923850	TEST FOR NO 800	126534 U I 128219 82/I 1717	BMW22	
BL 13			RCVS	01	BMU9929040	TEST FOR NO 80	126539 . 4 126979 6Z7I 1718	BL017	
BL 14			TR	00	BMU9924200	TEST FOR NO 80	126539 . 4 126979 6Z7I 1718	BL017	
BL 15			TITLE		ALL 8-S UP		1719		
BL 16			TITLE		MUST BE CONDITION LINE 8	126544 7 II 128224 8KBD 1721	BMW2		
BL 17			UNL	11	BMU9930040	PLACE 1 IN MAR 5	126549 7 II 128225 8KBE 1722	BMW33	
BL 18			UNL	11	BMU9930050	PLACE 1 IN MAR 5	126554 7 II 128226 8KBF 1723	BMW34	
BL 19			UNL	11	BMU9930060	IN MAR 7	126559 7 II 128228 8KBH 1724	BM36	
BL 20			UNL	11	BMU9930070	IN MAR 10	126564 7 II 128229 8KBI 1725	BM37	
BL 21			UNL	11	BMU9930080	IN MAR 11	126569 1 I 127029 702-I 1726	BM31	
BL 22			TR	00	BMU9925000	GO TO X TAB	126569 . 4 127029 702-I 1726	BL22	
BL 23			RCVS	01	BMU9929030	TEST FOR NO 800	126574 U I 128218 82/H 1727	BMW21	
BL 24			RCVS	01	BMU9923300	TEST FOR NO 800	126579 . 4 126639 6W3I 1728	I16BL40	
BL 25			RCVS	01	BMU9929040	TEST FOR NO 80	126584 U I 126639 6W3I 1729	BMW22	
BL 26			RCVS	01	BMU9923700	TEST FOR NO 80	126589 . 4 126794 6X9D 1730	BN04	
BL 27			TITLE		8000 DCWN-800 UP-80 UP		1731		
BL 28			TITLE		MUST BE CONDITION LINE 5	126594 7 II 128224 8KBD 1733	BMW2		
BL 29			UNL	11	BMU993004C	PLACE 1 IN MAR 5	126599 7 II 128225 8KBE 1734	BMW33	
BL 30			UNL	11	BMU9930050	PLACE 1 IN MAR 5	126604 7 II 128226 8KBF 1735	BMW34	
BL 31			UNL	11	BMU9930060	IN MAR 6	126609 U I 128217 82/G 1736	BL32	
BL 32			RCVS	01	BMU9929020	TEST FOR NO 4000	126614 . 3 126624 66BD 1737	BMW20	
BL 33			TR	00	BMU9923250	TEST FOR NO 4000	126614 . 3 126624 66BD 1737	BL36	
BL 34			TITLE		8000 DOWN-800 DOWN-80 UP		1738		
BL 35			UNL	11	BMU9930090	PLACE 1 IN MAR 12	126619 7 II 128230 8KCE 1739	BMW38	
BL 36			UNL	11	BMU9923250	TEST FOR NO 2000	126624 . 2 126634 66LD 1740	BL39	
BL 37			TITLE		8000 DOWN-800 DOWN-80 UP		1741		
BL 38			UNL	11	BMU9930100	PLACE 1 IN MAR 13	126629 7 II 128231 8KCA 1742	BMW39	
BL 39			TR	00	BMU9925000	GO TO X TAB	126634 1 I 127029 702-I 1743	BL43	
BL 40			RCVS	01	BMU9929040	TEST FOR NO 80	126639 U I 128219 82/I 1744	I17BL22	
BL 41			RCVS	01	BMU9923500	TEST FOR NO 80	126644 . 4 126714 6X1D 1745	BMW21	
BL 42							1746		

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BN 01 8MU9923650 TR 00 8MU9925000 GO TO X TAB 126789 1 127029 7021 4788 B032

BN 02 TITLE 8000 DOWN-800 UP-80 DOWN 12789

BN 07 TITLE 8MU9923740 TR 02 8MU9930070 PLACE 1 IN MAR 10 TEST FOR NO 2000 126809 7 11 128228 8KBD 1805 BWN6  
BN 08 TITLE 8MU9923740 TR 02 8MU9930070 PLACE 1 IN MAR 10 TEST FOR NO 2000 126814 • 2 126824 68KD 1806 BWN2  
BN 09 TITLE 8MU9923740 TR 02 8MU9930070 PLACE 1 IN MAR 10 TEST FOR NO 2000 126809 7 11 128228 8KBD 1805 BWN6  
BN 10 TITLE 8MU9930080 TR 01 8MU9930080 PLACE 1 IN MAR 11 TEST FOR NO 40 126819 7 11 128229 8KBD 1803 BWN7  
BN 11 TITLE 8MU9930080 TR 01 8MU9930080 PLACE 1 IN MAR 11 TEST FOR NO 40 126824 U 1 128219 82/I 1809 BWN22  
BN 12 TITLE 8MU9923760 RCVS 01 8MU9929040 PLACE 1 IN MAR 10 TEST FOR NO 40 126824 U 1 128219 82/I 1809 BWN22  
BN 13 TITLE 8MU9923760 RCVS 01 8MU9929040 PLACE 1 IN MAR 10 TEST FOR NO 40 126829 • 3 126839 68CI 1810 BWN16  
BN 14 TITLE 8MU9923790 TR 02 8MU9923810 PLACE 1 IN MAR 12 TEST FOR NO 20 126834 7 11 128230 8KCD 1812 BWN8  
BN 15 TITLE 8MU9923790 TR 02 8MU9930090 PLACE 1 IN MAR 12 TEST FOR NO 20 126839 • 2 126849 68MI 1813 BWN9  
BN 16 TITLE 8MU9923790 TR 02 8MU9923810 PLACE 1 IN MAR 12 TEST FOR NO 20 126839 • 2 126849 68MI 1813 BWN9  
BN 17 TITLE 8MU9923810 TR 01 8MU9930100 PLACE 1 IN MAR 13 TEST FOR NO 40 126844 7 11 128231 8KCA 1815 BWN9  
BN 18 TITLE 8MU9923810 TR 01 8MU9930100 PLACE 1 IN MAR 13 TEST FOR NO 40 126844 7 11 128231 8KCA 1815 BWN9  
BN 19 TITLE 8MU9923850 RCVS 01 8MU9929040 PLACE 1 IN MAR 10 TEST FOR 80 126854 U 1 128219 82/I 1817 BWN22  
BN 20 TITLE 8MU9923850 RCVS 01 8MU9929040 PLACE 1 IN MAR 10 TEST FOR 80 126854 U 1 128219 82/I 1817 BWN22  
BN 21 TITLE 8000 UP-800 DOWN-80 UP 126859 • 4 126914 62D 1818 BWN8  
BN 22 TITLE 8000 UP-800 DOWN-80 UP 126859 • 4 126914 62D 1818 BWN8  
BN 23 TITLE MUST BE CONDITION LINE 7 1820 126864 7 11 128224 8KBD 1821 BWN2  
BN 24 TITLE MUST BE CONDITION LINE 7 1820 126864 7 11 128224 8KBD 1821 BWN2  
BN 25 TITLE 8MU9930050 UNL 11 126869 7 11 128225 8KBE 1822 BWN3  
BN 26 TITLE 8MU9930050 UNL 11 126874 7 11 128226 8KBF 1823 BWN4  
BN 27 TITLE 8MU9930060 UNL 11 126874 7 11 128226 8KBF 1823 BWN4  
BN 28 TITLE 8MU9929030 UNL 01 126884 U 1 128218 82/H 1825 BWN21  
BN 29 TITLE 8MU9929030 RCVS 01 126884 U 1 128218 82/H 1825 BWN21  
BN 30 TITLE 8MU9923940 UNL 02 8MU9923960 PLACE 1 IN MAR 12 TEST FOR NO 200 126894 7 11 128230 8KCD 1828 BWN5  
BN 31 TITLE 8MU9930090 UNL 11 8MU9923960 PLACE 1 IN MAR 12 TEST FOR NO 200 126894 7 11 128230 8KCD 1828 BWN5  
BN 32 TITLE 8MU9923960 UNL 02 8MU9923960 PLACE 1 IN MAR 12 TEST FOR NO 200 126899 • 2 126909 69-I 1829 BWN5  
BN 33 TITLE 8MU9930100 UNL 11 8MU9923960 PLACE 1 IN MAR 12 TEST FOR NO 200 126904 7 11 128231 8KCA 1831 BWN9  
BN 34 TITLE 8MU9923960 UNL 00 8MU9925000 PLACE 1 IN MAR 13 GO TO X TAB 126904 7 11 128231 8KCA 1831 BWN9  
BN 35 TITLE 8MU9923960 UNL 00 8MU9925000 PLACE 1 IN MAR 13 GO TO X TAB 126924 U 1 128218 82/H 1832 BWN2  
BN 36 TITLE 8000 UP-800 DOWN-80 DOWN 1833

BN 37 TITLE MUST BE CONDITION LINE 3 1834 126914 7 11 128224 8KBD 1835 BWN2  
BN 38 TITLE 8MU9930040 UNL 11 8MU9930040 PLACE 1 IN MAR 5 IN MAR 7 126919 7 11 128226 8KBF 1836 BWN4  
BN 39 TITLE 8MU9930060 UNL 11 8MU9930060 PLACE 1 IN MAR 5 IN MAR 7 126924 U 1 128218 82/H 1837 BWN21  
BN 40 TITLE 8MU9929030 UNL 01 8MU9929030 PLACE 1 IN MAR 5 IN MAR 7 126924 U 1 128218 82/H 1837 BWN21

INDEX	TAG	OP	NU AT	OPERAEND	PROGRAM 8M999	-	-	COMMENTS	LOC OP SU	ADDRESS	PGLIN SER REF
80 01		T23	4	8M99924050	TEST FOR NO 400				126929 .	3 126939 69CI 1838	B004
80 02		T23	11	8M99930070	PLACE 1 IN MAR 10				126934 7	2 126949 69MI 1841	122B007
80 03		T23	11	8M99924050	TEST FOR NO 200				126934 7	2 126949 69MI 1840	BW36
80 04		T23	11	8M99924070	PLACE 1 IN MAR 10				126934 7	2 126949 69MI 1841	122B007
80 05		TITLE		8M99930080	PLACE 1 IN MAR 11				126944 7	1 126949 69BI 1843	BW37
80 06		TITLE		8M99924070 RCVS	RCVS 01				126949 U	1 126949 69BI 1843	BW37
80 07		TITLE		8M99924070 RCVS	8M99929040				126949 U	1 126949 69BI 1843	BW37
80 08		TITLE		8M99924070 RCVS	8M99924100				126944 .	3 126944 69FD 1845	B011
80 09		TITLE		8M99924100	TEST FOR NO 40				126954 .	3 126954 69FD 1845	B011
80 10		TITLE		8M99924100	TEST FOR NO 20				126959 7	2 126959 69FD 1846	BW38
80 11		TITLE		8M99924100	TEST FOR NO 12				126964 .	2 126964 69FD 1848	BW38
80 12		TITLE		8M99924120	PLACE 1 IN MAR 12				126964 .	2 126964 69FD 1848	BW38
80 13		TITLE		8M99930100	PLACE 1 IN MAR 13				126969 7	1 126969 69FD 1849	BW39
80 14		TITLE		8M99924120 TR	00				126969 7	1 126969 69FD 1849	BW39
80 15		TITLE		8000 UP-800 DOWN							1852
80 16		TITLE		MUST BE CONDITION LINE 6	PLACE 1 IN MAR 5				126979 7	1 126979 69FD 1853	BW32
80 17		TITLE		8M99924200 UNL	11	8M99930040	PLACE 1 IN MAR 5		126979 7	1 126979 69FD 1853	BW32
80 18		TITLE		UNL	11	8M99930050	IN MAR 6		126984 7	1 126984 69FD 1854	BW33
80 19		TITLE		UNL	11	8M99930060	IN MAR 7		126989 7	1 126989 69FD 1855	BW34
80 20		TITLE		UNL	11	8M99930080	IN MAR 7		126994 7	1 126994 69FD 1856	BW37
80 21		TITLE		RCVS 01	8M99929040	IN MAR 11			126999 U	1 126999 69FD 1857	123BW22
80 22		TITLE		T28	4	8M99924270	TEST FOR NO 40		127004 .	3 127004 70AD 1859	B025
80 23		TITLE		UNL	11	8M99930090	PLACE 1 IN MAR 12		127004 .	3 127004 70AD 1859	B025
80 24		TITLE		T28	02	8M99924270	TEST FOR NO 20		127009 7	1 127009 70AD 1860	BW38
80 25		TITLE		UNL	11	8M99930090	PLACE 1 IN MAR 12		127009 7	1 127009 70AD 1860	BW38
80 26		TITLE		UNL	11	8M9993100	PLACE 1 IN MAR 13		127019 7	1 127019 70AD 1863	BW39
80 27		TITLE		3119924290	TR	00	8M99925000	GO TO X TAB	127024 1	1 127024 70AD 1865	B031
80 28		TITLE		UNL	11	8M9993100	PLACE 1 IN MAR 13		127024 1	1 127024 70AD 1865	B031
80 29		TITLE		BCD TO BINARY -							1866
80 30		TITLE		DETERMINE MAR X LINES							1867
80 31		TITLE		000001 SET 00	000001	8M99925000	NOT 0-4 IF HIGH		127029 B	000001 0001 1868	BW23
80 32		TITLE		L0D 00	8M99929050	UNITS ORDER			127034 8	1 127034 1869	BW23
80 33		TITLE		L0D 00	8M99911000-005	CMP UNITS ORDER TO 4			127034 4	1 127034 1870	A514
80 34		TITLE		TRH 00	8M99925080	NOT 0-4 IF HIGH			127039 4	1 127039 1870	B037
80 35		TITLE		UNL 11	8M99930030	PLACE 1 IN MAR 3			127049 7	1 127049 1872	BW28
80 36		TITLE		TRH 10	8M99929000	CMP 0 TO HTH ORDER			127054 4	1 127054 1873	BW18
80 37		TITLE		TRH 10	8M99925150	ADDR MUST BE 99999 OR LOWER			127059 K	1 127059 1873	124B02
80 38		TITLE		UNL	11	8M99930030	PLACE 1 IN MAR 3		127064 L	1 127064 1876	BP02
80 39		TITLE		TRH 00	8M99925150	GO TO X TAB			127069 7	1 127069 1877	BX02

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM	SMU99	-	-	COMMENTS	LOC	OP SU	ADDRESS	PGLIN	SER REF						
BP 01		TR	00	SMU9925500	GO TO UPPER 60K INTERROGATION	127219 1	127219 7211	1879	BP37											
BP 02	SMU9925150 SET	00	000001	0001 1880	127079 B	000001 0001 1880				127074	1	127219 7211	1879	BP37						
BP 03	L0D	00	SMU9929010	TIH ORDER	127084 8	128216 821F 1881				127084	4	122879 2871 1882	128216 821F 1881	BP19						
BP 04	CMP	00	SMU9925300	CMPI THI TI 0 7	127094 K	127094 K	122879 2871 1882			127094	K	127139 7131 1883	80000-99999 IF HIGH	BP05						
BP 05	TRH	00	SMU9911000-002	CMPI THI TI 0 7	127094 K	127094 K	127094 K	70000-79999 IF EQUAL		127094	K	127139 7131 1883	80000-99999 IF HIGH	BP17						
BP 06	TR	00	SMU9925350	70000-79999 IF EQUAL	127169 L	127169 7161 1888				127169	L	127169 7161 1888	30000-39999 IF EQUAL	BP24						
BP 07	CMP	00	SMU9911000-006	CMPI THI TI 0 3	127104 4	122875 2875 1886				127104	4	127109 K	127109 K	AS14						
BP 08	TRH	00	SMU9925400	40000-69999 IF HIGH	127109 K	127109 K	127109 K	30000-39999 IF EQUAL		127109	K	127109 K	122875 2875 1886	AS14						
BP 09	TR	00	SMU9925360	40000-69999 IF HIGH	127114 L	127114 L	127114 L	30000-39999 IF EQUAL		127114	L	127114 L	122875 2875 1886	AS14						
BP 10	TR	00	SMU9925370	10000-19999 IF EQUAL	127124 K	127209 7201 1901				127124	K	127209 7201 1901	20000-29999 IF HIGH	BP13						
BP 11	CMP	00	SMU9911000-008	CMPI THI TI 0 1	127119 4	122873 2873 1900				127119	4	127119 4	122873 2873 1900	AS14						
BP 12	TR	00	SMU9925380	10000-19999 IF EQUAL	127129 L	127129 7170 1902				127129	L	127129 7170 1902	10000-19999 IF EQUAL	BP14						
BP 13	CMP	00	SMU9925450	20000-29999 IF HIGH	127144 4	122880 2886 1906				127144	4	127144 4	122880 2886 1906	BP18						
BP 14	TR	00	SMU9925340	80000-89999 IF EQUAL	127149 L	127159 7151 1907				127149	L	127149 L	127144 4	BP22						
BP 15	TITLE	00	SMU9925340-09999	MUST BE 00000-09999	127154 7	11 128237 8KCG 1909				127154	7	11 128237 8KCG 1909	127154 7	BP03						
BP 16	TITLE	11	UNL	8MU9930170	PLACE I IN MAR 9	10K			8MU9925800	GO TO ODD INTERROGATION	10K	8MU9930170	PLACE I IN MAR 17	40K	BP 23					
BP 17	8MU9925350 UNL	11	8MU9930170	PLACE I IN MAR 17	127164 7	11 128242 8KDB 1911			8MU9925800	GO TO ODD INTERROGATION	10K	8MU9930170	PLACE 1 IN MAR 17	40K	BP 27					
BP 18	CMP	00	8MU9911000-004	CMPI THI TI 0 5	127169 7	11 128236 8KCF 1912			8MU9925800	GO TO ODD INTERROGATION	10K	8MU9930170	PLACE 1 IN MAR 8	20K	BP 28					
BP 19	TR	00	8MU9925370	50000-59999 IF EQUAL	127179 1	127289 7281 1914			8MU9925800	GO TO ODD INTERROGATION	10K	8MU9930170	PLACE 1 IN MAR 9	20K	BP 25					
BP 20	TITLE	11	UNL	8MU9930170	PLACE I IN MAR 9	10K			8MU9925800	GO TO ODD INTERROGATION	10K	8MU9930170	PLACE 1 IN MAR 9	20K	BP 23					
BP 21	8MU9925340 UNL	11	8MU9930170	PLACE I IN MAR 9	127159 1	127289 7281 1910			8MU9925800	GO TO ODD INTERROGATION	10K	8MU9930170	PLACE 1 IN MAR 17	40K	BP 27					
BP 22	8MU9925340 TR	11	8MU9930170	PLACE I IN MAR 9	127159 1	127289 7281 1910			8MU9925800	GO TO ODD INTERROGATION	10K	8MU9930170	PLACE 1 IN MAR 17	40K	BP 26					
BP 23	8MU9925350 UNL	11	8MU9930170	PLACE I IN MAR 17	127164 7	11 128242 8KDB 1911			8MU9925800	GO TO ODD INTERROGATION	10K	8MU9930170	PLACE 1 IN MAR 8	20K	BP 28					
BP 24	8MU9925360 UNL	11	8MU9930170	PLACE 1 IN MAR 8	127169 7	11 128236 8KCF 1912			8MU9925800	GO TO ODD INTERROGATION	10K	8MU9930170	PLACE 1 IN MAR 9	20K	BP 25					
BP 25	8MU9925370 UNL	11	8MU9930170	PLACE 1 IN MAR 9	127174 7	11 128237 8KCG 1913			8MU9925800	GO TO ODD INTERROGATION	10K	8MU9930170	PLACE 1 IN MAR 17	40K	BP 27					
BP 26	TR	00	8MU9925370	50000-59999 IF EQUAL	127179 1	127289 7281 1914			8MU9925800	GO TO ODD INTERROGATION	10K	8MU9930170	PLACE 1 IN MAR 17	40K	BP 26					
BP 27	8MU9925400 UNL	11	8MU9930170	PLACE 1 IN MAR 17	127184 7	11 128242 8KDB 1915			8MU9925800	GO TO ODD INTERROGATION	10K	8MU9930170	PLACE 1 IN MAR 8	20K	BP 28					
BP 28	CMP	00	8MU9911000-004	CMPI THI TI 0 5	127189 4	122887 2876 1916			8MU9925800	GO TO ODD INTERROGATION	10K	8MU9930170	PLACE 1 IN MAR 9	20K	BP 29					
BP 29	TRH	00	8MU9925450	60000-69999 IF HIGH	127194 K	127209 7201 1917			8MU9925800	GO TO ODD INTERROGATION	10K	8MU9930170	PLACE 1 IN MAR 8	20K	BP 30					
BP 30	TR	00	8MU9925370	50000-59999 IF EQUAL	127199 L	127174 7170 1918			8MU9925800	GO TO ODD INTERROGATION	10K	8MU9930170	PLACE 1 IN MAR 8	20K	BP 34					
BP 31	TITLE	TR	00	8MU9930120	PLACE 1 IN MAR 8	20K			8MU9925800	GO TO ODD INTERROGATION	10K	8MU9930120	PLACE 1 IN MAR 8	20K	BP 33					
BP 32	TITLE	TR	00	8MU9925800	GO TO ODD INTERROGATION	10K			8MU9930120	PLACE 1 IN MAR 8	20K	8MU9930120	PLACE 1 IN MAR 8	20K	BP 34					
BP 33	8MU9925450 UNL	11	8MU9930120	PLACE 1 IN MAR 8	127209 7	11 128236 8KCF 1922			8MU9925800	GO TO ODD INTERROGATION	10K	8MU9930120	PLACE 1 IN MAR 8	20K	BP 35					
BP 34	TITLE	TR	00	8MU9930120	PLACE 1 IN MAR 8	20K			8MU9925800	GO TO ODD INTERROGATION	10K	8MU9930120	PLACE 1 IN MAR 8	20K	BP 36					
BP 35	8MU9925450 UNL	11	8MU9930120	PLACE 1 IN MAR 8	127214 1	127289 7281 1923			8MU9925800	GO TO ODD INTERROGATION	10K	8MU9930120	PLACE 1 IN MAR 8	20K	BP 37					
BP 36	TITLE	TR	00	8MU9925500	UPPER 60K INTERROGATION	10K			8MU9925800	GO TO ODD INTERROGATION	10K	8MU9925500	SET	00	000001	0001 1880	127079 B	000001 0001 1880	127079	BP37
BP 37	8MU9925500 SET	00	000001	0001 1880	127079 B	000001 0001 1880			8MU9925800	GO TO ODD INTERROGATION	10K	8MU9925500	SET	00	000001	0001 1880	127079 B	000001 0001 1880	127079	BP37

INDEX	TAG	OP	NU AT	OPRAND	PROGRAM BMU99	- - -	COMMENTS	LOC OF SU	ADDRESS	GLIN SER RE:
BA 01										
BA 02										
BA 03	8MU9925560	UNL	11	8MU9930170	PLACE 1 IN MAR 17	40K	127249 7 II 128242 8KBD 1933	BX08		
BA 04		CMP	00	8MU9911000-006	CMP THY TO 3		127254 4 122875 287E 1934	AS14		
BA 05		TRH	00	8MU9925610	140000-159999 IF HIGH		127259 K 127274 727D 1935	BQ11		
BA 06		TRC	00	8MU9925370	130000-139999 IF EQUAL		127264 L 127174 717D 1936	BP25		
BA 07		TRI	00	8MU9925800	MUST BE 120000-129999		127269 1 127289 7281 1938	BQ15		
BA 08										
BA 09										
BA 10	8MU9925610	CMP	00	8MU9925360	150000-159999 IF EQUAL		127274 4 122877 287G 1941	AS14		
BA 11		TR	00	8MU9925450	MUST BE 140000-149999		127279 L 127169 7161 1942	BP24		
BA 12										
BA 13										
BA 14	8MU9925800	RCVS	01	8MU9929020	ODD MAR X INTERROGATION		127284 . 1 127304 73#D 1946	BW20		
BA 15				8MU9930140	PLACE 1 IN MAR 14		127289 U 1 128217 8Z/6 1945	BW05		
BA 16				8MU9925830	TEST FOR NO 100		127299 . 1 127319 73/I 1950	BW21		
BA 17				8MU9925830	TEST FOR NO 100		127304 U 1 128243 8KCI 1948	BX05		
BA 18	8MU9925830	RCVS	01	8MU9929030	PLACE 1 IN MAR 14		127299 7 II 128239 8KCI 1948	BX05		
BA 19				8MU9930140	PLACE 1 IN MAR 14		127304 U 1 128218 8Z/H 1949	BW05		
BA 20				8MU9925860	TEST FOR NO 100		127309 . 1 127319 73/I 1950	BW23		
BA 21				8MU9930150	PLACE 1 IN MAR 15		127314 7 II 128240 8KDG 1952	BX06		
BA 22				8MU9930150	PLACE 1 IN MAR 15		127319 U 1 128241 8KDA 1956	BX07		
BA 23	8MU9925860	RCVS	01	8MU9929040	TEST FOR NO 10		127329 7 II 128241 8KDA 1956	BX07		
BA 24				8MU9925900	TEST FOR NO 10		127324 . 1 127334 731D 1954	BQ27		
BA 25				8MU9930160	PLACE 1 IN MAR 16		127329 7 II 128241 8KDA 1956	BX07		
BA 26	8MU9925900	SET	14	800001	TEST FOR - IN MAR 3		127334 B 14 128328 8CKH 1958	BX30		
BA 27				8MU9930030	TEST FOR - IN MAR 3		127334 B 14 128328 8CKH 1958	BX30		
BA 28				8MU9930030	TEST FOR - IN MAR 3		127334 B 14 128328 8CKH 1958	BX30		
BA 29				8MU9930030	TEST FOR - IN MAR 3		127334 B 14 128328 8CKH 1958	BX30		
BA 30	CMP	14	8MU9930030	TEST FOR - IN MAR 3						
BA 31				8MU9926040	TEST FOR - IN MAR 3					
BA 32				8MU9927106001	TEST FOR - IN MAR 3					
BA 33				8MU9927106001	TEST FOR - IN MAR 3					
BA 34	TITLE									
BA 35	8MU9926040	CMP	14	8MU9930110	TEST FOR - IN MAR 3					
BA 36				8MU9926080	TEST FOR - IN MAR 3					
BA 37				8MU9927106001	TEST FOR - IN MAR 3					
BA 38				8MU9927106001	TEST FOR - IN MAR 3					
BA 39	TITLE									
BA 40	3MU9926080	CMP	14	8MU9930040	TEST FOR - IN MAR 3					
BA 41				8MU9926120	TEST FOR - IN MAR 3					
BA 42				8MU9927106001	TEST FOR - IN MAR 3					

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INDEX	TAG	OP	NU AT	OPERAND	PROGRAM	8MU99	-	-	COMMENTS	LOC	OP SU	ADDRESS	PGLIN	SER REF	
BR 01		TSL	01	8MU9925720					127399 I	I	127669	76WI	1973	B527	
BR 02		8MU992612C	CMP	14	8MU9930050				127404 4	I4	128225	8BKE	1975	BW33	
BR 03		8MU9926160	TRC	00	8MU9926160				127409 L	I27424	742D	1976	BRO8		
BR 04		8MU9926160	RCS	01	8MU99271706001				127414 U	I	127841	78UA	1977	BT38	
BR 05		8MU9926160	TSL	01	8MU9926730				127419 I	I	127679	76XI	1978	1308530	
BR 06		8MU9926730	RCS	01	8MU99271706001				127434 U	I	127841	78UA	1982	BT38	
BR 07		8MU9926160	CMP	14	3MU9930060				127435 I	I	127689	76YI	1983	B533	
BR 08		8MU9926160	TRC	00	8MU9926200				127439 L	I27464	746D	1986	BR18		
BR 09		8MU9926160	RCS	01	8MU99271706001				127449 L	I27541	752D	2001	BR18		
BR 10		8MU9926200	TRC	00	8MU99271706001				127449 U	I	127541	78UA	1982	BT38	
BR 11		8MU9926740	TSL	01	8MU9926740				127443 U	I	127841	78UA	1982	BT38	
BR 12		8MU9926200	CMP	14	8MU9930120				127444 4	I4	128236	8BLF	1985	BX02	
BR 13		8MU9926200	TRC	00	8MU9926240				127449 L	I27464	746D	1986	BR18		
BR 14		8MU9926200	RCS	01	8MU99271706001				127454 U	I	127541	78UA	1986	BR18	
BR 15		8MU9926240	TRC	00	8MU99271706001				127454 L	I27541	752D	2006	BR28		
BR 16		8MU9926280	TSL	01	8MU9926770				127454 U	I	127719	77JI	2008	BT01	
BR 17		8MU9926240	CMP	14	8MU9930130				127464 4	I4	128237	8BLG	2000	BX03	
BR 18		8MU9926240	TRC	00	8MU9926280				127469 L	I27484	748D	2001	BR23		
BR 19		8MU9926280	RCS	01	8MU99271706001				127474 U	I	127841	78UA	2002	BT38	
BR 20		8MU9926280	TRC	00	8MU99271706001				127474 L	I27484	748D	2002	BR23		
BR 21		8MU9926280	RCS	01	8MU9926760				127479 I	I	127709	77JI	2003	1318353	
BR 22		8MU9926280	TITLE	14	8MU9930070				127484 4	I4	128228	8BKH	2005	BW36	
BR 23		8MU9926280	TRC	00	8MU9926320				127489 L	I27504	750D	2006	BR28		
BR 24		8MU9926280	RCS	01	8MU99271706001				127494 U	I	127841	78UA	2007	BT38	
BR 25		8MU9926320	TRC	00	8MU99271706001				127499 I	I	127719	77JI	2008	BT01	
BR 26		8MU9926770	TSL	01	8MU9926770				127509 L	I27524	752D	2011	BR33		
BR 27		8MU9926320	CMP	14	8MU9930080				127514 U	I	127641	78UA	2012	BT38	
BR 28		8MU9926320	TRC	00	8MU99271706001				127519 I	I	127729	77JI	2013	BW37	
BR 29		8MU9926320	RCS	01	8MU99271706001				127524 4	I4	128230	8BLG	2015	2014	
BR 30		8MU9926400	TRC	00	8MU9930090				127529 L	I27544	754D	2016	BR38		
BR 31		8MU9926400	RCS	01	8MU99271706001				127534 U	I	127841	78UA	2017	BT38	
BR 32		8MU9926360	CMP	14	8MU9930090				127539 I	I	127739	77JI	2018	132B05	
BR 33		8MU9926360	TRC	00	8MU99271706001				127544 4	I4	128231	8BLA	2020	BW39	
BR 34		8MU9926400	RCS	01	8MU99271706001				127549 L	I27564	756D	2021	BR43		
BR 35		8MU9926400	TRC	00	8MU99271706001				127554 U	I	127841	78UA	2022	BT38	
BR 36		8MU9926820	TSL	01	8MU9926820				127559 I	I	127745	77JI	2023	BT09	
BR 37		8MU9926400	CMP	14	8MU9930100				127564 4	I4	128231	8BLA	2020	BW39	
BR 38		8MU9926400	TRC	00	8MU99271706001				127569 L	I27534	753D	2025	BR05		
BR 39		8MU9926400	RCS	01	8MU99271706001				127569 I	I	127745	77JI	2026	BR05	
BR 40		8MU9926400	TRC	00	8MU99271706001				127574 4	I4	128239	8BLI	2026	BR05	
BR 41		8MU9926400	RCS	01	8MU99271706001				127574 U	I	127841	78UA	2022	BT38	
BR 42		8MU9926440	CMP	14	8MU9930140				127575 I	I	127745	77JI	2023	BT09	
BR 43		8MU9926440	TRC	00	8MU99271706001				127575 U	I	127841	78UA	2022	BR43	
BR 44		8MU9926440	RCS	01	8MU99271706001				127576 I	I	127745	77JI	2023	BT09	

INDEX	TAG	OP	NU	AT	OPRAND	PROGRAM	BMU99	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
BS 01	R CVS	01	8M09927176G001	127574 U	1	127841	78UA	2027	127579 1	1	127759	77VI	2028	B112		
BS 02	R CVS	01	8M09927176G001	127579 1	1	127759	77VI	2028	127579 1	1	127759	77VI	2028	B112		
BS 03	TITLE	14	8M0993C15C	127584 4	14	128240	8BME	2030	127589 L	127604	76D0	2031	B509			
BS 04	TITLE	14	8M09926480	CMP	14	128240	8BME	2030	127589 L	127604	76D0	2031	B509			
BS 05	TITLE	14	8M09926520	TR E	00	8M09926520			127594 U	1	127841	78UA	2032	B112		
BS 06	TITLE	01	8M09927176G001	127594 U	1	127841	78UA	2032	127599 1	1	127769	77VI	2033	B112		
BS 07	TITLE	01	8M09926840	T S L	01	8M09926840			127599 1	1	127769	77VI	2033	1338T15		
BS 08	TITLE	14	8M09930160	16					127604 4	14	128241	8BMA	2035	BX07		
BS 09	TITLE	14	8M09926520	CMP	14	128241	8BMA	2035	127609 L	127624	76D0	2036	B114			
BS 10	TITLE	00	8M09926560	TR E	00	8M09927176G001			127614 U	1	127841	78UA	2037	B114		
BS 11	TITLE	01	8M09927176G001	T S L	01	8M09926850			127619 1	1	127779	77XI	2038	B114		
BS 12	TITLE	01	8M09926850	T S L	01	8M09926850			127619 1	1	127779	77XI	2038	B114		
BS 13	TITLE	14	8M09930170	17					127624 4	14	128242	8BMB	2040	BX08		
BS 14	TITLE	00	8M09926560	CMP	14	128242	8BMB	2040	127629 L	127644	76D0	2041	B119			
BS 15	TITLE	00	8M09926600	TR E	00	8M09927176G001			127634 U	1	127841	78UA	2042	B119		
BS 16	TITLE	01	8M09927176G001	T S L	01	8M09926863			127639 1	1	127789	77VI	2043	B112		
BS 17	TITLE	01	8M09926863	T S L	01	8M09926863			127639 1	1	127789	77VI	2043	B112		
BS 18	TITLE	00	8M09926600	TR	00	8M09910250			127644 1	122619	26II	2045	A028			
BS 19	TITLE	00	8M09910250	V ARITABLE	TRANSF ER	BACK			127644 1	122619	26II	2045	A028			
BS 20	TITLE	04	8M09926700	L D	04	INITIAL	MAR LINE TAB ADDR SET		127649 8	4	129000	9#06	2047	BY38		
BS 21	TITLE	04	8M09926700	L D	04	8M0993113C	MAR 3 TAB START ADDRESS		127649 8	4	127794	7790	2048	BY38		
BS 22	TITLE	00	8M09926700	L D	04	8M09926870			127654 1	127794	7790	2048	BY38			
BS 23	TITLE	04	8M09926710	L D	04	8M09931140	MAR 4		127659 8	4	129004	9#0D	2050	BY39	134	
BS 24	TITLE	04	8M09926720	L D	04	8M09931150	MAR 5		127664 1	127794	7790	2051	BY40			
BS 25	TITLE	00	8M09926720	L D	04	8M09926870			127669 8	4	129008	9#0H	2053	BY40		
BS 26	TITLE	00	8M09926720	L D	04	8M09931150	MAR 5		127674 1	127794	7790	2054	BY40			
BS 27	TITLE	00	8M09926730	L D	04	8M09931160	MAR 6		127679 8	4	129012	9#1B	2056	BY41		
BS 28	TITLE	00	8M09926730	L D	04	8M09926870			127684 1	127794	7790	2057	BY41			
BS 29	TITLE	00	8M09926730	L D	04	8M09931160	MAR 6		127689 8	4	129016	9#1F	2059	BY42		
BS 30	TITLE	00	8M09926740	L D	04	8M09931170	MAR 7		127694 1	127794	7790	2060	BY42			
BS 31	TITLE	00	8M09926740	L D	04	8M09926870			127699 8	4	129020	9#26	2062	BY43		
BS 32	TITLE	00	8M09926740	L D	04	8M09931170	MAR 7		127704 1	127794	7790	2063	BY43			
BS 33	TITLE	00	8M09926750	L D	04	8M09931180	MAR 8		127709 8	4	129024	9#2D	2065	BY44		
BS 34	TITLE	00	8M09926750	L D	04	8M09931190	MAR 9		127714 1	127794	7790	2066	BY44			
BS 35	TITLE	00	8M09926750	L D	04	8M09926870			127714 1	127794	7790	2066	BY44			
BS 36	TITLE	00	8M09926750	L D	04	8M09931190	MAR 9		127714 1	127794	7790	2066	BY44			
BS 37	TITLE	00	8M09926750	L D	04	8M09926870			127714 1	127794	7790	2066	BY44			
BS 38	TITLE	00	8M09926760	L D	04	8M09926870			127714 1	127794	7790	2066	BY44			
BS 39	TITLE	00	8M09926760	L D	04	8M09926870			127714 1	127794	7790	2066	BY44			
BS 40	TITLE	00	8M09926760	L D	04	8M09926870			127714 1	127794	7790	2066	BY44			
BS 41	TITLE	00	8M09926760	L D	04	8M09926870			127714 1	127794	7790	2066	BY44			

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM	8MU99	-	COMMENTS	LOC	OP SU	ADDRESS	TITLE	ALL SECTIONS
BT 01	8MU9926770	LDD	04	8MU9931200	MAR 10	8MU9926870	127719 8	4 129028 9#2H 2068	127724 1	127794 7790 2069	B143	BT 04	8MU9926800 LDD 04 8MU9931210 MAR 11 8MU9926870 127734 1 127794 7790 2070 B147
BT 02	8MU9926770	TR	00	8MU9931200	MAR 10	8MU9926870	127719 8	4 129028 9#2H 2068	127724 1	127794 7790 2069	B143	BT 05	8MU9926810 LDD 04 8MU9931220 MAR 12 8MU9926870 127739 8 4 129036 9#3F 2073 B146
BT 03	8MU9926800	LDD	04	8MU9931210	MAR 11	8MU9926870	127729 8	4 129032 9#3B 2070	127734 1	127794 7790 2071	B147	BT 06	8MU9926810 LDD 04 8MU9931220 MAR 12 8MU9926870 127739 8 4 129036 9#3F 2073 B146
BT 07	8MU9926810	TR	00	8MU9931220	MAR 12	8MU9926870	127744 1	127794 7790 2074	2073			BT 08	8MU9926820 LDD 04 8MU9931230 MAR 13 8MU9926870 127749 8 4 129040 9#46 2076 B201
BT 09	8MU9926820	TR	00	8MU9931230	MAR 13	8MU9926870	127754 1	127794 7790 2077	2075			BT 10	8MU9926820 LDD 04 8MU9931230 MAR 13 8MU9926870 127754 1 127794 7790 2077 B201
BT 11	8MU9926830	LDD	04	8MU9931240	MAR 14	8MU9926870	127759 8	4 129044 9#4D 2079	127764 1	127794 7790 2080	B202	BT 12	8MU9926830 LDD 04 8MU9931240 MAR 14 8MU9926870 127759 8 4 129044 9#4D 2079 B202
BT 13	8MU9926840	TR	00	8MU9931250	MAR 15	8MU9926870	127769 8	4 129048 9#4H 2082	127774 1	127794 7790 2083	B203	BT 14	8MU9926840 LDD 04 8MU9931250 MAR 15 8MU9926870 127769 8 4 129048 9#4H 2082 B203
BT 15	8MU9926850	LDD	04	8MU9931260	MAR 16	8MU9926870	127779 8	4 129052 9#5B 2085	127784 1	127794 7790 2086	B204	BT 16	8MU9926850 LDD 04 8MU9931260 MAR 16 8MU9926870 127779 8 4 129052 9#5B 2085 B204
BT 17	8MU9926850	TR	00	8MU9931260	MAR 16	8MU9926870	127779 8	4 129052 9#5B 2085	2084			BT 18	8MU9926850 LDD 04 8MU9931260 MAR 16 8MU9926870 127779 8 4 129052 9#5B 2085 B204
BT 19	8MU9926850	LDD	04	8MU9931260	MAR 16	8MU9926870	127784 1	127794 7790 2086	2085			BT 20	8MU9926860 LDD 04 8MU9931270 MAR 17 8MU9931270 127784 8 4 129056 9#5F 2088 B205
BT 22	8MU9926870	TR	00	8MU9927120	SET TAB ADDRESS	8MU9927120	127794 7	4 127814 7Y1D 2100	127799 1	127849 784I 2101	B209	BT 23	8MU9926870 UNL 04 8MU9927120 SET TAB ADDRESS 127794 7 4 127814 7Y1D 2100 B209
BT 24		TR	00	8MU9927120	SET START LINE TAB ADDRESS	8MU9927120	127794 7	4 127814 7Y1D 2100	127799 1	127849 784I 2101	B209	BT 25	8MU9927120 UNL 04 8MU9927120 SET START LINE TAB ADDRESS 127794 7 4 127814 7Y1D 2100 B209
BT 26	8MU9927120	AM	13	8MU992712G	ADD TAB INCREMENT TO VAR LODER	8MU992712G	127804 6	13 127814 7H/D 2103	12102			BT 27	8MU9927120 AM 13 8MU992712G ADD TAB INCREMENT TO VAR LODER 127804 6 13 127814 7H/D 2103 B129
BT 27		TITLE										BT 28	8MU9927120 LOD 13 800005 VARIABLE TAB COUNT LOADER 127809 B 13 000005 0G#3 2105 B129
BT 28	8MU9927120	LOD	13	800005	VARIABLE TAB COUNT LOADER	8MU9930200	127814 8	13 00000C 0G#0 2106	127819 6	13 128245 9RUE 2107	B129	BT 29	8MU9927120 LOD 13 800005 0G#3 2105 B129
BT 29		TITLE										BT 30	8MU9927120 LOD 13 800005 0G#0 2106 B129
BT 30	8MU9927120	SET	13	800005	VARIABLE TAB COUNT LOADER	8MU9930200	127814 8	13 00000C 0G#0 2106	127819 6	13 128245 9RUE 2107	B129	BT 31	8MU9927120 SET 13 800005 0G#3 2105 B129
BT 31		TITLE										BT 32	8MU9927120 UNL 04 8MU9927120 SET REPLACER 127824 8 4 127814 7Y1D 2109 B129
BT 32	8MU9927120	UNL	04	8MU9927120	SET REPLACER	8MU9927120	127824 8	4 127834 7Y1D 2109	127829 7	4 127834 7Y3D 2110	B135	BT 33	8MU9927120 UNL 04 8MU9927120 SET REPLACER 127824 8 4 127834 7Y1D 2109 B129
BT 33		TITLE										BT 34	8MU9927165 UNL 04 800000 REPLACE COUNT IN TABLE 8MU9927900 127834 7 13 00000 0G#0 2112 B135
BT 34	8MU9927165	UNL	04	800000	REPLACE COUNT IN TABLE	8MU9927900	127834 7	13 00000 0G#0 2112	127839 A	128039 803I 2113	B135	BT 35	8MU9927165 UNL 04 800000 REPLACE COUNT IN TABLE 8MU9927900 127834 7 13 00000 0G#0 2112 B135
BT 35		TITLE										BT 36	8MU9927165 UNL 04 800000 REPLACE COUNT IN TABLE 8MU9927900 127839 A 128039 803I 2113 B135
BT 36	8MU9927165	NP	00	8MU9927900	S TWO-PASS SWITCH--ALL SECTIONS	8MU9927900	127839 7	13 00000 0G#0 2112	137BV10			BT 37	8MU9927165 NP 00 8MU9927900 S TWO-PASS SWITCH--ALL SECTIONS 127839 7 13 00000 0G#0 2112 B135
BT 37		TITLE										BT 38	8MU9927170 TR 00 8MU992604C VARIABLE RETRACE TRANSFER 127844 1 127364 736D 2115 B135
BT 38	8MU9927170	TR	00	8MU992604C	VARIABLE RETRACE TRANSFER	8MU992604C	127844 1	127364 736D 2115	2116			BT 39	8MU9927170 TR 00 8MU992604C VARIABLE RETRACE TRANSFER 127844 1 127364 736D 2115 B135

INDEX	TAGS	OP	NU AT	OPERAND	PROGRAM	8M999	-	-	COMMENTS	LOC	OP SU	ADDRESS	PGLIN	SER REF
BU 01	TITLE	MULTIPLE DROP OR PICK MARTAB	RAD	15	8M99910500	SET TWO-PASS SWITCH	2117		I27849 T I27835 783E 2118	I27854 H	15	I22681 2FHA 2119	A041	
BU 02	SGN	8M99927300	00	8M99927165-C04	SET TWO-PASS SWITCH	2117			I27849 T I27835 783E 2118	2117		B136		
BU 03	TITLE	MULTIPLE DROP OR PICK MARTAB	RAD	15	8M99910500	0 INTO ASU 15			I27849 T I27835 783E 2118	I27854 H	15	I22681 2FHA 2119	A041	
BU 04	TITLE	MULTIPLE DROP OR PICK MARTAB	CMP	08	8M99910940-006	TEST FOR D-----			I27859 4 8 I22848 204H 2121	I27864 L	I27874 787D 2122	B108	A0506	
BU 05			TR	00	8M99927380				I27869 1	I27879 7871 2123		B110		
BU 06			TR	00	8M99927400	TEST FOR D-----			I27869 1	I27879 7871 2123		B110		
BU 07			TR	00	8M99927400				I27869 1	I27879 7871 2123		B110		
BU 08	8M99927380	ADD	15	8M99910510	ADD 1 TO ASU 15				I27874 6	15	I22682 2FHB 2124	A042		
BU 09	TITLE	MULTIPLE DROP OR PICK MARTAB	CMP	08	8M99910940-005	TEST FOR -D-----			I27879 4 8 I22849 204I 2126	I27884 L	I27894 789D 2127	B113	A0506	
BU 10			TR	00	8M99927430				I27889 1	I27899 7891 2128		B113		
BU 11			TR	00	8M99927430	TEST FOR -D-----			I27889 1	I27899 7891 2128		B113		
BU 12			TR	00	8M99927450				I27894 6	15	I22682 2FHB 2129	A042		
BU 13	8M99927430	ADD	15	8M99910510					I27894 6	15	I22682 2FHB 2129	A042		
BU 14	TITLE	MULTIPLE DROP OR PICK MARTAB	CMP	08	8M99910940-004	TEST FOR --D----			I27899 4 8 I22850 205E 2131	I27904 L	I27914 791D 2132	B118	A0506	
BU 15			TR	00	8M99927480				I27909 1	I27919 791I 2133		B118		
BU 16			TR	00	8M99927500	TEST FOR --D----			I27919 4	8 I22850 205E 2135		B120		
BU 17			TR	00	8M99927500				I27929 1	I27939 793I 2138		B123		
BU 18	8M99927480	ADD	15	8M99910510					I27929 1	I27939 793I 2138		B123		
BU 19	TITLE	MULTIPLE DROP OR PICK MARTAB	CMP	08	8M99910940-003	TEST FOR --D----			I27919 4 8 I22851 205A 2136	I27924 L	I27934 793D 2137	B123	A0506	
BU 20			TR	00	8M99927500				I27929 1	I27939 793I 2138		B123		
BU 21			TR	00	8M99927530	TEST FOR --D----			I27919 4	8 I22851 205A 2135		B123		
BU 22			TR	00	8M99927550				I27929 1	I27939 793I 2138		B123		
BU 23	8M99927530	ADD	15	8M99910510					I27934 6	15	I22682 2FHB 2139	A042		
BU 24	TITLE	MULTIPLE DROP OR PICK MARTAB	CMP	08	8M99910940-002	TEST FOR ----D--			I27934 6	15	I22682 2FHB 2139	A042		
BU 25			TR	00	8M99927550				I27949 1	I27959 795I 2143		B128		
BU 26			TR	00	8M99927580	TEST FOR ----D--			I27944 L	I27954 795D 2142		A0506		
BU 27			TR	00	8M99927600				I27949 1	I27959 795I 2143		B128		
BU 28	8M99927580	ADD	15	8M99910510					I27954 6	15	I22682 2FHB 2144	A042		
BU 29	TITLE	MULTIPLE DROP OR PICK MARTAB	CMP	08	8M99910940-001	TEST FOR ----D--			I27954 6	15	I22682 2FHB 2144	A042		
BU 30			TR	00	8M99927630				I27955 4	8 I22853 205C 2145		B128		
BU 31			TR	00	8M99927630	TEST FOR ----D--			I27955 4	8 I22853 205C 2145		A0506		
BU 32			TR	00	8M99927650				I27964 L	I27974 797D 2147		B128		
BU 33	8M99927630	ADD	15	8M99910510					I27969 1	I27979 797I 2148		B128		
BU 34	TITLE	MULTIPLE DROP OR PICK MARTAB	CMP	08	8M99910940	TEST FOR -----0			I27979 4	8 I22854 205D 2151		A0506		
BU 35			TR	00	8M99927680				I27984 L	I27994 799D 2152		B128		
BU 36			TR	00	8M99927680	TEST FOR -----0			I27989 1	I27999 799I 2153		B128		
BU 37			TR	00	8M99927700				I27994 G	I22682 2FHB 2154		A042		
BU 38	8M99927680	ADD	15	8M99910510					I27999 N	I22682 2FHB 2155		B128		
BU 39	TITLE	MULTIPLE DROP OR PICK MARTAB	CMP	08	8M99927700	BYPASS DROP TAB			I27999 N	I22682 2FHB 2155		A042		

INDEX TAGS OP NU AT OPERATIONS PROGRAM BMU99 COMMENTS LOC OP SU ADDRESS PGtin SER REF

BV 01	TITLE	ST	15	BMU9930200	STORE ADDER COUNT	I2804 F 15 I28245 8BDE 2157	BX11
BV 02	TITLE	ST	15	BMU9930200	STORE ADDER COUNT	I2804 F 15 I28245 8BDE 2157	BX11
BV 03	TITLE	SET	13	000006	SET ADDR FOR DROP	I2804 8 13 000006 0E#6 2159	2158
BV 04	TITLE	SET	13	000006	SET ADDR FOR DROP	I2804 8 13 I22887 2HYG 2160	AS15
BV 05	TITLE	SET	13	000006	SET ADDR FOR DROP	I2804 8 13 I22887 2HYG 2160	AS15
BV 06	TITLE	SET	13	000006	SET ADDR FOR DROP	I2804 8 13 I22887 2HYG 2161	1408T26
BV 07	BMU9927800 SET	LOD	13	000006	SET ADDR FOR PICK	I28024 B 13 000006 0E#6 2162	AS16
BV 08	BMU9927800 SET	LOD	13	000006	SET ADDR FOR PICK	I28029 8 13 I22893 2H2C 2163	AS16
BV 09	BMU9927800 SET	LOD	13	000006	SET ADDR FOR PICK	I28034 1 I28049 8041 2164	AS13
BV 10	BMU9927900 SET	LOD	13	000006	SET INCREMENT FOR PICK	I29039 B 13 000006 0E#6 2165	AS15
BV 11	BMU9927900 SET	LOD	13	000006	SET INCREMENT FOR PICK	I28044 8 13 I22887 2HYG 2166	AS15
BV 12	TITLE	SGN	00	BMU9927165-004	RESET TWO-PASS SWITCH	I28049 1 I27835 783E 2168	2167
BV 13	BMU9928000 SGN	ADM	00	BMU9927165-004	RESET TWO-PASS SWITCH	I28054 6 I27835 783E 2169	BT36
BV 14	TITLE	SGN	00	BMU9927165-004	RESET TWO-PASS SWITCH	I28059 H 15 I22881 2FHA 2170	BT36
BV 15	TITLE	RAD	15	BMU9910510	0 INT0 ASU 15	I28059 H 15 I22882 2FHB 2175	141A042
BV 16	TITLE	CMR	09	BMU9910940-006	TEST FOR P-----	I28064 4 9 I22848 20H4 2172	AS06
BV 17	TITLE	CMR	09	BMU9910940-005	TEST FOR P-----	I28069 L I28079 8071 2173	AS06
BV 18	TITLE	CMR	00	BMU9928080	TEST FOR P-----	I28074 1 I28084 808D 2174	BV22
BV 19	TITLE	CMR	00	BMU9928100	TEST FOR P-----	I28074 L I28079 8071 2173	AS06
BV 20	BMU99283080 ADD	ADD	15	BMU9910510	ADD 1 TO ASU 15	I28079 6 15 I22882 2FHB 2175	141A042
BV 21	TITLE	CMR	09	BMU9910940-005	TEST FOR P-----	I28084 4 9 I22849 2G01 2177	AS06
BV 22	BMU99283100 CMR	TR	00	BMU9928130	TEST FOR P-----	I28089 L I28099 8091 2178	AS06
BV 23	BMU99283100 CMR	TR	00	BMU9928150	TEST FOR P-----	I28094 1 I28104 8100 2179	AS06
BV 24	BMU9928130 CMR	TR	00	BMU9928150	TEST FOR P-----	I28094 L I28099 8091 2178	AS06
BV 25	BMU9928130 ADD	ADD	15	BMU9910510	TEST FOR P-----	I28099 6 15 I22882 2FHB 2180	A042
BV 26	TITLE	CMR	09	BMU9910940-004	TEST FOR P-----	I28104 4 9 I22850 2G06 2182	AS06
BV 27	BMU9928150 CMR	TR	00	BMU9928180	TEST FOR P-----	I28109 L I28119 8111 2183	AS06
BV 28	BMU9928180 CMR	TR	00	BMU9928200	TEST FOR P-----	I28114 1 I28124 8120 2184	AS06
BV 29	BMU9928180 CMR	TR	00	BMU9928230	TEST FOR P-----	I28119 4 9 I22851 20VA 2187	AS06
BV 30	BMU9928180 ADD	ADD	15	BMU9910510	TEST FOR P-----	I28119 6 15 I22882 2FHB 2185	A042
BV 31	TITLE	CMR	09	BMU9910940-003	TEST FOR P-----	I28124 4 9 I22852 20VS 2187	AS06
BV 32	BMU9928200 CMR	TR	00	BMU9928230	TEST FOR P-----	I28129 L I28139 8131 2188	AS06
BV 33	BMU9928200 CMR	TR	00	BMU9928250	TEST FOR P-----	I28134 1 I28144 8140 2189	AS06
BV 34	BMU9928200 CMR	TR	00	BMU9928250	TEST FOR P-----	I28134 L I28139 8131 2189	AS06
BV 35	BMU9928230 ADD	ADD	15	BMU9910510	TEST FOR P-----	I28139 G 15 I22882 2FHB 2200	142A042
BV 36	TITLE	CMR	09	BMU9910940-002	TEST FOR P-----	I28144 4 9 I22852 20VS 2202	AS06
BV 37	BMU9928250 CMR	TR	00	BMU9928280	TEST FOR P-----	I28149 L I28159 8151 2203	AS06
BV 38	BMU9928250 CMR	TR	00	BMU9928300	TEST FOR P-----	I28154 1 I28164 8160 2204	AS03
BV 39	BMU9928300 CMR	TR	00	BMU9928300	TEST FOR P-----	I28164 1 I28164 8160 2204	AS03

INDEX	TAG	OP	NU AT	OPRAND	PROGRAM	8MU99	-	-	COMMENTS	LOC	OP SU	ADDRESS	PGLIN	SER REF	
BW 01	8MU9928280	ADD	15	8MU9910510						128159 G	15	122682	2FH8	2205	A042
BW 02	8MU9928300	CMP	09	8MU9910940-001	TEST FOR	-----P-				128164 4	9	122853	2AVC	2207	AS06
BW 03	8MU9928350	CMP	09	8MU9910940	TEST FOR	-----P-				128169 L	128179	8171	2208	BW06	
BW 04	8MU9928330	TR	00	8MU9928330						128169 L	128179	8171	2207	AS06	
BW 05	8MU9928350	TR	00	8MU9928350						128174 1	128184	818D	2209	BW06	
BW 06	8MU9928330	ADD	15	8MU9910510						128174 1	128184	818D	2209	BW06	
BW 07	8MU9928350	TEST FOR	-----P-							128174 4	9	122854	2AVD	2212	AS06
BW 08	8MU9928350	TR	00	8MU9928380						128189 L	128199	8191	2213	BW11	
BW 09	8MU9910940	TEST FOR	-----P-							128189 4	9	122854	2AVD	2212	AS06
BW 10	8MU9928400	TR	00	8MU9928400						128194 1	128204	820D	2214	BW12	
BW 11	8MU9928400	ADD	15	8MU9910510	BYPASS PICK TAB IF ASU IS ZERO					128204 N	15	127844	7H0D	2216	BT38
BW 12	8MU9928400	TR	15	8MU9927170						128199 G	15	122682	2FH8	2215	143A042
BW 13	8MU9928400	ST	15	8MU9930200	STORE ADDER COUNT					128209 F	15	128245	8BDE	2218	BX11
BW 14	8MU9929010	TR	00	8MU9927100						128214 1	127804	780D	2219	BT26	
BW 15	8MU9929000	CON	0	0	HUNDRED THOUSANDS					128224					
BW 16	8MU9929010	CON	0	0	GENERATED TO REPLACE DRC, DCN, OR DF PN					128224					
BW 17	8MU9929000	CON	0	0	GENERATED TO REPLACE DRC, DCN, OR DF PN					128224					
BW 18	8MU9929020	CON	0	0	HUNDRED THOUSANDS					128225					
BW 19	8MU9929010	CON	0	0	TEN THOUSANDS					128226					
BW 20	8MU9929030	CON	0	0	THOUSANDS					128227					
BW 21	8MU9929040	CON	0	0	HUNDREDS					128228					
BW 22	8MU9929040	CON	0	0	TENS					128229					
BW 23	8MU9929050	CON	0	0	UNITS					128230					
BW 24		TITLE			BCD TO BINARY MAR LINES					128231					
BW 25		TITLE			BCD TO BINARY MAR LINES					128232					
BW 26		TITLE			GENERATED TO REPLACE DRC, DCN, OR DF PN					128233					
BW 27		TITLE			GENERATED TO REPLACE DRC, DCN, OR DF PN					128234					
BW 28		TITLE			GENERATED TO REPLACE DRC, DCN, OR DF PN					128235					
BW 29		TITLE			GENERATED TO REPLACE DRC, DCN, OR DF PN					128236					
BW 30		TITLE			Y MAR LINES					128237					
BW 31		TITLE			Y MAR LINES					128238					
BW 32		TITLE			CON 0 GENERATE D TO REPLACE DRC, DCN, OR DF PN					128239					
BW 33		TITLE			CON 0 GENERATE D TO REPLACE DRC, DCN, OR DF PN					128240					
BW 34		TITLE			CON 0 GENERATE D TO REPLACE DRC, DCN, OR DF PN					128241					
BW 35		TITLE			CON 0 GENERATE D TO REPLACE DRC, DCN, OR DF PN					128242					
BW 36		TITLE			CON 0 GENERATE D TO REPLACE DRC, DCN, OR DF PN					128243					
BW 37		TITLE			CON 0 GENERATE D TO REPLACE DRC, DCN, OR DF PN					128244					
BW 38		TITLE			CON 0 GENERATE D TO REPLACE DRC, DCN, OR DF PN					128245					
BW 39		TITLE			CON 0 GENERATE D TO REPLACE DRC, DCN, OR DF PN					128246					
BW 40		TITLE			CON 0 GENERATE D TO REPLACE DRC, DCN, OR DF PN					128247					
BW 41		TITLE			X MAR LINES					128248					
BW 42		TITLE			X MAR LINES					128249					

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INDEX TAG OP NU\_AT OPERAND PROGRAM BMU99 COMMENTS LOC OP SU ADDRESS PGLIN SER REF

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INDEX	TAG	OP	NU AT	OPRAND	PROGRAM BMU99	COMMENTS	LOC OP SU	ADDRESS	GLIN SER REF
BY 01	BMU9931020	36	-----	-----	-----	-----	2303	128575	128575
BY 02	BMU9931020	36	-----	-----	-----	-----	2287	2288	2288 150
BY 03	BMU9931030	34	-----	-----	-----	-----	2287	2288554	128555
BY 04	BMU9931030	01	-----	-----	-----	-----	2289	2288	2288 150
BY 05	BMU9931030	15	3-	0	0	0	2301	128574	128574
BY 06	BMU9931030	01	-----	-----	-----	-----	2300	128559	128559
BY 07	BMU9931040	04	0	SA-	0	0	0	128615	128615
BY 08	BMU9931040	36	5-	0	0	4-	0	0	128579
BY 09	BMU9931040	04	0	GENERATED TO REPLACE DRC, DCN, OR DFN	CON	0	2303	128575	128575
BY 10	BMU9931040	36	5-	0	0	0	2305	128649	128649
BY 11	BMU9931042	34	01	-----	-----	-----	2307	2306	2306 151
BY 12	BMU9931042	04	01	-----	-----	-----	2308	128650	128650
BY 13	BMU9931050	36	6-	0	0	8-	0	0	128654
BY 14	BMU9931050	34	01	-----	-----	-----	2309	128650	128650
BY 15	BMU9931050	36	6-	0	0	0	0	128690	128690
BY 16	BMU9931052	01	-----	-----	-----	-----	2310	128724	128724
BY 17	BMU9931060	34	01	-----	-----	-----	2311	128725	128725
BY 18	BMU9931060	36	7-	0	0	9-	0	0	128729
BY 19	BMU9931062	04	01	-----	-----	-----	2313	128765	128765
BY 20	BMU9931062	34	01	-----	-----	-----	2314	128799	128799
BY 21	BMU9931070	04	01	-----	-----	-----	2315	128800	128800
BY 22	BMU9931072	36	10-	0	0	14-	0	0	128804
BY 23	BMU9931072	34	01	-----	-----	-----	2317	128840	128840
BY 24	BMU9931072	36	10-	0	0	0	0	0	128874
BY 25	BMU9931072	01	-----	-----	-----	-----	2319	128875	128875
BY 26	BMU9931072	04	01	GENERATED TO REPLACE DRC, DCN, OR DFN	CON	0	2321	128875	128875
BY 27	BMU9931080	36	11-	0	0	15-	0	0	128879
BY 28	BMU9931080	04	01	-----	-----	-----	2323	128915	128915
BY 29	BMU9931081	36	11-	0	0	15-	0	0	128916
BY 30	BMU9931081	03	01	-----	-----	-----	2324	128919	128919
BY 31	BMU9931090	36	12-	0	0	16-	0	0	128955
BY 32	BMU9931090	03	01	-----	-----	-----	2326	128955	128955
BY 33	BMU9931100	03	01	-----	-----	-----	2328	128956	128956
BY 34	BMU9931100	36	13-	0	0	17-	0	0	128959
BY 35	BMU9931100	01	-----	-----	-----	-----	2330	128995	128995
BY 36	BMU9931100	04	01	-----	-----	-----	2331	128996	128996
BY 37	BMU9931130	13	8MU9931030-012	MAR	3	START ADDRESS	2332	129000	129000
BY 38	BMU9931130	13	8MU9931040-012	MAR	3	START ADDRESS	2333	128562	128562
BY 39	BMU9931140	13	8MU9931040-012	MAR	3	START ADDRESS	2334	8F#C	8F#C
BY 40	BMU9931140	13	8MU9931040-012	MAR	3	START ADDRESS	2335	BY10	BY10
BY 41	BMU9931160	13	8MU9931050-033	5	4	START ADDRESS	2336	128578	128578
BY 42	BMU9931170	13	8MU9931050-033	6	7	START ADDRESS	2337	128657	128657
BY 43	BMU9931180	13	8MU9931050-012	8	8	START ADDRESS	2338	128732	128732
BY 44	BMU9931180	13	8MU9931050-012	9	9	START ADDRESS	2339	128753	128753
BY 45	BMU9931200	13	8MU9931070-033	10	10	START ADDRESS	2340	128807	128807
BY 46	BMU9931210	13	8MU9931070-033	12	12	START ADDRESS	2341	128822	128822
BY 47	BMU9931210	13	8MU9931070-033	13	13	START ADDRESS	2342	12882	12882
BY 48	BMU9931220	13	8MU9931070-033	13	13	START ADDRESS	2343	128922	128922
BY 49	BMU9931220	13	8MU9931070-033	13	13	START ADDRESS	2344	128922	128922

INDEX	OP	NU AT	OPERAND	PRIMASKA M0099	-	CONTENTS
01	BMU9931230	ACONA 13	BMU9931100-033	13	128962 8IMB 2345	BY34
02	BMU9931240	ACONA 13	BMU9931070-012	14	128828 BSHS 2346	BY22
03	BMU9931250	ACONA 13	BMU9931080-012	15	1289048 13 128948 13 128952 13 1289056 13 1289052 13 1289048 13 1289044 13 128962 8IMB 2345	BY28 BY31 BY34
04	BMU9931260	ACONA 13	BMU9931090-012	16	1289056 13 128943 8IUC 2348 1289048 13 128903 8IAC 2347 1289044 13 128828 BSHS 2346 1289040 13 128962 8IMB 2345	BY34
05	BMU9931270	ACONA 13	BMU9931100-012	17	1289056 13 128983 8IVC 2349 1289052 13 128943 8IUC 2348 1289048 13 128903 8IAC 2347 1289044 13 128828 BSHS 2346 1289040 13 128962 8IMB 2345	BY34
06	BMU9931300	ACONA 13	BMU9931042-025	SEGMENT SA START ADDRESS	8MU9931042-025	SECT 5 - ERROR ADDR-CNTS T-O
07	BMU9931310	ACONA 13	BMU9931052-025	SB	8MU9931062-025	GENERATED TO REPLACE DRCD, DCN, OR DFPN
08	BMU9931320	ACONA 13	BMU9931062-025	SC	8MU9931062-025	GENERATED TO REPLACE DRCD, DCN, OR DFPN
09	BMU9931330	ACONA 13	BMU9931072-025	SD	8MU9931072-025	SEC7 5 - ERROR ADDR-CNTS T-O
10	BMU9931333	ACONA 13	BMU9931072-025	NTP	16	xxxxxx xxxx x
11	BMU9931500	CON 0	CON 16	129072	129072	GENERATED TO REPLACE DRCD, DCN, OR DFPN
12	BMU9931507	CON 0	CON 16	129088	129088	GENERATED TO REPLACE DRCD, DCN, OR DFPN
13	BMU9931530	CON 0	CON 16	129104	129104	SEC7 5 - ERROR ADDR-CNTS T-O
14	BMU9931530	CON 0	CON 16	129105	129105	GENERATED TO REPLACE DRCD, DCN, OR DFPN
15	BMU9931550	CON 0	CON 16	129110	129110	SEC7 5 - ERROR ADDR-CNTS T-O
16	BMU9931560	CON 0	CON 16	129116	129116	GENERATED TO REPLACE DRCD, DCN, OR DFPN
17	BMU9931570	CON 0	CON 16	129121	129121	SEC7 5 - ERROR ADDR-CNTS T-O
18	BMU9931580	CON 0	CON 16	129124	129124	GENERATED TO REPLACE DRCD, DCN, OR DFPN
19	BMU9931590	CON 0	CON 16	129125	129125	SEC7 5 - ERROR ADDR-CNTS T-O
20	BMU9931590	CON 0	CON 16	129126	129126	GENERATED TO REPLACE DRCD, DCN, OR DFPN
21	BMU9931590	CON 0	CON 16	129127	129127	SEC7 5 - ERROR ADDR-CNTS T-O
22	BMU9931590	CON 0	CON 16	129128	129128	GENERATED TO REPLACE DRCD, DCN, OR DFPN
23	BMU9931590	CON 0	CON 16	129129	129129	SEC7 5 - ERROR ADDR-CNTS T-O
24	BMU9931590	CON 0	CON 16	129130	129130	GENERATED TO REPLACE DRCD, DCN, OR DFPN
25	BMU9931590	CON 0	CON 16	129131	129131	SEC7 5 - ERROR ADDR-CNTS T-O
26	BMU9931590	CON 0	CON 16	129132	129132	GENERATED TO REPLACE DRCD, DCN, OR DFPN
27	BMU9931590	CON 0	CON 16	129133	129133	SEC7 5 - ERROR ADDR-CNTS T-O
28	BMU9931590	CON 0	CON 16	129134	129134	GENERATED TO REPLACE DRCD, DCN, OR DFPN
29	BMU9931590	CON 0	CON 16	129135	129135	SEC7 5 - ERROR ADDR-CNTS T-O
30	BMU9931590	CON 0	CON 16	129136	129136	GENERATED TO REPLACE DRCD, DCN, OR DFPN
31	BMU9931590	CON 0	CON 16	129137	129137	SEC7 5 - ERROR ADDR-CNTS T-O
32	BMU9931590	CON 0	CON 16	129138	129138	GENERATED TO REPLACE DRCD, DCN, OR DFPN
33	BMU9931590	CON 0	CON 16	129139	129139	SEC7 5 - ERROR ADDR-CNTS T-O
34	BMU9931590	CON 0	CON 16	129143	129143	GENERATED TO REPLACE DRCD, DCN, OR DFPN
35	BMU9931590	CON 0	CON 16	129144	129144	SEC7 5 - ERROR ADDR-CNTS T-O
36	BMU9931590	CON 0	CON 16	129145	129145	GENERATED TO REPLACE DRCD, DCN, OR DFPN
37	BMU9931590	CON 0	CON 16	129146	129146	SEC7 5 - ERROR ADDR-CNTS T-O
38	BMU9931590	CON 0	CON 16	129147	129147	GENERATED TO REPLACE DRCD, DCN, OR DFPN
39	BMU9931590	CON 0	CON 16	129148	129148	SEC7 5 - ERROR ADDR-CNTS T-O
40	BMU9931590	CON 0	CON 16	129149	129149	GENERATED TO REPLACE DRCD, DCN, OR DFPN
41	BMU9931590	CON 0	CON 16	129150	129150	SEC7 5 - ERROR ADDR-CNTS T-O
42	BMU9931590	CON 0	CON 16	129151	129151	GENERATED TO REPLACE DRCD, DCN, OR DFPN
43	BMU9931590	CON 0	CON 16	129152	129152	SEC7 5 - ERROR ADDR-CNTS T-O
44	BMU9931590	CON 0	CON 16	129153	129153	GENERATED TO REPLACE DRCD, DCN, OR DFPN
45	BMU9931590	CON 0	CON 16	129154	129154	SEC7 5 - ERROR ADDR-CNTS T-O
46	BMU9931590	CON 0	CON 16	129155	129155	GENERATED TO REPLACE DRCD, DCN, OR DFPN
47	BMU9931590	CON 0	CON 16	129156	129156	SEC7 5 - ERROR ADDR-CNTS T-O
48	BMU9931590	CON 0	CON 16	129157	129157	GENERATED TO REPLACE DRCD, DCN, OR DFPN
49	BMU9931590	CON 0	CON 16	129158	129158	SEC7 5 - ERROR ADDR-CNTS T-O
50	BMU9931590	CON 0	CON 16	129159	129159	GENERATED TO REPLACE DRCD, DCN, OR DFPN

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INDEX	TAG	OP	NU AT	OPERAND	PROGRAM	COMMENT	LOC	OP SU	ADDRESS	PGLIN	SER REF
CA 01	BMU9931660	01	-	AB-			129165				
CA 02	BMU9931660	03	AB-				129168				
CA 03	BMU9931670	01	-	NB-			129169				
CA 04	BMU9931670	03	NB-				129172				
CA 05	BMU9931679	01	-				129173				
CA 06	BMU9931680	01	-				129186				
CA 07	BMU9931680	01	-				129187				
CA 08											
CA 09	BMU9931700	00	GENERATED TO REPLACE DRCD, DCN, OR DFPN				129190				
CA 10	BMU9931700	00	GENERATED TO REPLACE DRCD, DCN, OR DFPN				129189				
CA 11	BMU9931710	10	C0E2CC00ZC	66			129199				
CA 12	BMU9931710	10	EZC0EEZC0E	--			129224				
CA 13	BMU9931720	10	C0E2CC00ZC	66			129209				
CA 14	BMU9931750	05	GENERATED TO REPLACE DRCD, DCN, OR DFPN	0049			129219				
CA 15	BMU9931750	05	GENERATED TO REPLACE DRCD, DCN, OR DFPN	0050			129224				
CA 16	BMU9931760	03	41				129222				
CA 17	BMU9931760	05	0049				129222				
CA 18	BMU9931780	03					129222				
CA 19											
CA 20											
CA 21											
CA 22	BMU9931800	05	GENERATED TO REPLACE DRCD, DCN, OR DFPN	0055*			129234				
CA 23	BMU9931800	05	GENERATED TO REPLACE DRCD, DCN, OR DFPN	0055*			129234				
CA 24	BMU9931810	01		/,*#66			129240				
CA 25	BMU9931820	06		ABCDEFH1-			129246				
CA 26	BMU9931830	10	JKLMNOPQR	#STUVWXYZ			129256				
CA 27	BMU9931840	09					129265				
CA 28	BMU9931840	09					129274				
CA 29	BMU9931850	10					129274				
CA 30	BMU9931850	10					129284				
CA 31	BMU9931860	06	Xxxxxx CURRENT CACA REFERENCE	CON 0			129284				
CA 32	BMU9931860	10	GENERATED TO REPLACE DRCD, DCN, OR DFPN	CON 0			129290				
CA 33	BMU9931860	06	Xxxxxx CURRENT CACA REFERENCE	CON 0			129290				
CA 34	BMU9931860	10	GENERATED TO REPLACE DRCD, DCN, OR DFPN	CON 0			129290				
CA 35							129300				
CA 36	NAME 00	00	GENERATED TO REPLACE DRCD, DCN, OR DFPN	NAME 00			129305				
CA 37	NAME 00	00	GENERATED TO REPLACE DRCD, DCN, OR DFPN	NAME 00			129304				
CA 38	NAME 00	05					129309				
CA 39	NAME 00	05					129330				
CA 40	NAME 00	05					129334				
CA 41	NAME 00	01	SMU9931885 ACON4	NAME 00			129364				
CA 42	NAME 00	01	SMU9931885 ACON4	NAME 00			129364				
CA 43	NAME 00	01	SMU9931885 ACON4	NAME 00			129364				
CA 44	NAME 00	01	SMU9931885 ACON4	NAME 00			129364				
CA 45	NAME 00	01	SMU9931885 ACON4	NAME 00			129364				
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CA 96	NAME 00	01	SMU9931885 ACON4	NAME 00			129364				
CA 97	NAME 00	01	SMU9931885 ACON4	NAME 00			129364				
CA 98	NAME 00	01	SMU9931885 ACON4	NAME 00			129364				
CA 99	NAME 00	01	SMU9931885 ACON4	NAME 00			129364				
CA 100	NAME 00	01	SMU9931885 ACON4	NAME 00			129364				
CA 101	NAME 00	01	SMU9931885 ACON4	NAME 00			129364				
CA 102	NAME 00	01	SMU9931885 ACON4	NAME 00			129364				
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CA 104	NAME 00	01	SMU9931885 ACON4	NAME 00			129364				
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CA 124	NAME 00	01	SMU9931885 ACON4	NAME 00			129364				
CA 125	NAME 00	01	SMU9931885 ACON4	NAME 00			129364				
CA 126</td											

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8MU99	-	COMMENTS	LOC OP SU	ADDRESS	PGLIN SER REF
CB 01	CON 0	05	GENERATED TO REPLACE DRCD, DCN, OR DFPN	129364	129369			2445		CB 02
CB 02	CON 0	05	GENERATED TO REPLACE DRCD, DCN, OR DFPN	129364	129369			2446		CB 03
CB 03	TITLE		WORK AREA							
CB 04	NAME 00	00	CON 0	GENERATED TO REPLACE DRCD, DCN, OR DFPN	129370			2447		CB 05
CB 05	NAME 00	05	CON 0	GENERATED TO REPLACE DRCD, DCN, OR DFPN	129369			2447		CB 06
CB 06	8MU9931910	05	XXXXXX GROUP 1							CB 07
CB 07	8MU9931920	05	XXXXXX GROUP 2							CB 08
CB 08	8MU9931930	05	XXXXXX GROUP 3							CB 09
CB 09	8MU9931940	05	XXXXXX GROUP 4							CB 10
CB 10	8MU9931990	05	XXXXXX POST COMPLEMENT TMT RECEPTION AREA							CB 11
CB 11	8MU9931990	05	XXXXXX POST COMPLEMENT TMT RECEPTION AREA	129399						CB 12
CB 12	TITLE		SECTION 5							
CB 13	TITLE		MEMORY ADDRESS PLACEMENT TEST							CB 14
CB 14	8MU9932100	01	8MU9910760	000004	SET MEMORY FILL ADDR	129409 *	1	129434 94TD 2456	129429 0	CB 15
CB 15	8MU9932100	01	8MU9910760	000005	REDUCE TO 00004	129414 B	1	000005 00#5 2458	129424 \$	CB 16
CB 16	SET 01		ULIA 01	8MU9932300	SET MEMORY FILL ADDR	129404 #	1	122749 27UI 2457	129429 0	CB 17
CB 17	TITLE		MEMORY FILL AREA							CB 18
CB 18	RCVS 01	000004	BLM 00	016000	SET LOWER 80K TO BLANKS	129419 U	1	000004 00#4 2460	129424 \$	CB 19
CB 19	RCVS 01	000004	BLM 00	016000	SET LOWER 80K TO BLANKS	129419 U	1	000004 00#4 2461	129429 0	CB 20
CB 20	TMC 11		8MU9932300							CB 21
CB 21	TITLE		MEMORY FILL AREA							CB 22
CB 22	8MU9932300	01	8MU9910830	000004	MEMORY FILL ADDRESS	129434 7	1	000004 00#4 2464	129439 4	CB 23
CB 23	CMP 01		8MU9910830	000004	TEST FOR 79999	129439 4	1	122792 27ZB 2465	129444 L	CB 24
CB 24	TR 00		8MU9932530	000004	MEM FILE COMPLETE	129444 L	1	129464 946D 2466	129464 *	CB 25
CB 25	TITLE		MEMORY FILL AREA							CB 26
CB 26	ADD 01	8MU9910530	ADD 5 TO ADDR SUM IN ASU 01	8MU9910530	ADD 5 TO ADDR SUM IN ASU 01	129449 G	1	122686 26YF 2468	129454 @	CB 27
CB 27	ADD 01	8MU9910530	ADD 5 TO ADDR SUM IN ASU 01	8MU9932300	INCREMENT MFA BY 00005	129454 @	6	129434 9ULD 2469	129454 @	CB 28
CB 28	TR 00		8MU9932300	000004	INCREMENT MFA BY 00005	129454 @	6	122749 27UI 2471	129459 1	CB 29
CB 29	8MU9932530	01	8MU9910760	000004	000005 00#5 2471	129464 *	1	122749 27UI 2471	129474 B	CB 30
CB 30	SET 01		8MU9932600	000005	000005 00#5 2473	129469 *	1	129489 94YI 2472	129469 *	CB 31
CB 31	SET 01		8MU9932600	000005	000005 00#5 2473	129474 *	1	129489 94YI 2472	129474 *	CB 32
CB 32	TITLE		MEMORY CHECK AREA							CB 33
CB 33	TMC 00	000901	8MU9932600	000901	000005 00#5 2476	129479 2	000901 0901	129484 0	11 129489 9MHI 2476	CB 34
CB 34	TITLE		MEMORY CHECK AREA							CB 35
CB 35	TITLE		MEMORY CHECK AREA							CB 36
CB 36	8MU9932600	01	8MU9932640	000000	TEST ADDRESS FOR CONTENTS	129489 4	1	000000 00#0 2478	129489 4	CB 37
CB 37	TR 00		8MU9932640	000000	SHOULD BE EQUAL -	129494 L	1	129504 950D 2479	129494 L	CB 38
CB 38	TR 00		8MU9933200	000000	ERROR - IF NOT	129499 1	1	129604 960D 2480	129499 1	CB 39
CB 39	8MU9932640	01	8MU9933000	000000	TEST FOR 0901 CHECK	129504 0	11 129599 9NI 2481	129504 0	122792 27ZB 2482	CB 40
CB 40	8MU9932660	01	8MU9910830	000000	TEST FOR 79999	129509 4	1	122792 27ZB 2483	129509 4	CB 41
CB 41	TR 00		8MU9932850	000000	MEM CHK COMPLETE	129514 L	1	129534 953D 2483	129514 L	CB 42
CB 42	TITLE									

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gscans/g0014612.png

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM	SMU99	-	-	COMMENTS	LOC	OP SU	ADDRESS	PGLIN	SER REF
CD 01	TMC	11	8MU9934040	TRC	12	8MU9934050	00	8MU9932660	129694 1	129509 9501	2538	CBD03	C003	
CD 02	8MU9934040	01	129684 0	11	129689 901H	2536	129689 0	12	129694 959D	2537	C002	C002		
CD 03	8MU9934050	TR	00	8MU9932660	129694 1	129509 9501	2538	CBD03	C003					
CD 04	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 05	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 06	8MU9935200	RCVS	01	BLM	00	8MU9931904	000004	129699 U	1 129374 93XD	2541	CBD06	C006		
CD 07	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 08	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 09	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 10	8MU9935230	SET	00	Q00020	129714 B	000020 0020	2544	C004	129714 B	129389 938I	2547	CBD09	C009	
CD 11	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 12	8MU9935230	SET	00	Q00020	129719 8	129209 920I	2545	C004	129719 8	129389 938I	2546	CBD09	C009	
CD 13	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 14	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 15	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 16	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 17	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 18	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 19	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 20	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 21	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 22	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 23	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 24	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 25	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 26	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 27	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 28	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 29	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 30	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 31	TITLE	SECTION 6-12 SETUP 66-- X 66--												
CD 32	8MU9935400	SGN	00	8MU993904	SET SECTION 7 SWITCHES	129784 1	130865 #86E	2567	C033	129789 1	130865 #68E	2568	C033	
CD 33	TITLE	SECTION 7-13 SETUP ---66 X ---66												
CD 34	TITLE	SECTION 7-13 SETUP ---66 X ---66												
CD 35	TITLE	SECTION 7-13 SETUP ---66 X ---66												
CD 36	8MU9935420	RCVS	01	BLM	00	8MU99319106004	CLEAR OUT WORK AREA	129799 U	1 129374 93XD	2571	CBD06	C006		
CD 37	TITLE	SECTION 7-13 SETUP ---66 X ---66												
CD 38	TITLE	SECTION 7-13 SETUP ---66 X ---66												
CD 39	TITLE	SECTION 7-13 SETUP ---66 X ---66												
CD 40	8MU9935450	SET	00	Q00020	129814 B	000020 0020	2574	C040	129809 0	11 129814 9QA0D	2573	CD40	CD40	

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8M99	COMMENTS	LOC OP SU	ADDRESS	PGLIN SER REF
CE 01		L0D	00	8M9931720	EZCODEZCODEZCODEZCODEZC		129819 8	129219 9211 2576	CAL13
CE 02		L0D	00	8M9931720	EZCODEZCODEZCODEZCODEZC		129824 7	129389 9381 2577	C809
CE 03							2578		
CE 04		SBR		8M9931910-004	CHAR 0 e SET C BIT ON		129829 % 8 129370 9176 2580	129834 % 8 129371 917A 2581	C806
CE 05		SBR		8M9931910-003	1 z RESET C BIT OFF		129834 % 8 129374 917D 2582	129839 % 8 129375 917E 2584	C806
CE 06		SBR		8M9931910-003	1 z RESET C BIT OFF		129844 % 8 129375 917E 2584	129849 % 8 129376 917F 2585	C807
CE 07		SBR		8M9931910-002	9 e ON		129854 % 8 129379 917I 2586	129854 % 8 129379 917J 2586	C807
CE 08		SBR		8M9931920-004	CHAR 5 e ON		2583		
CE 09		SBR		8M9931920-003	6 2 z ON		2583		
CE 10		SBR		8M9931920-003	6 2 z ON		2583		
CE 11		SBR		8M9931920	9 e ON		2583		
CE 12							2587		
CE 13		SBR		8M9931930-002	CHAR 12 e ON		2588		
CE 14		SBR		8M9931930-002	8 129382 917B 2589		2588		
CE 15		SBR		8M9931930-001	8 129383 917C 2600		2588		
CE 16		SBR		8M9931940-002	CHAR 17 e ON		2601		
CE 17		SBR		8M9931940-001	8 129387 917G 2602		2601		
CE 18		SBR		8M9931940-001	8 129388 917H 2603		2601		
CE 19		TR	00	8M9937000	OFF		2605		
CE 20					SECTION 8 SETUP 66-- X 666		2605		
CE 21					IN LINE PLANE CHKB0-COMPLETED		2606		
CE 22					8M9937920-004	SET SECTION 8 SWITCHES	2606		
CE 23					8M9937920-004	CLEAR OUT WORK AREA	2606		
CE 24		RCVS	C1	8M9931910-004	1 129374 93XD 2609		2606		
CE 25		RCVS	C1	8M9931910-004	00004 0004 2610		2606		
CE 26		TMC	11	8M9935640	11 129904 916D 2611		2606		
CE 27					129899 0		2611		
CE 28					129894 S		2611		
CE 29		LOD	00	8M9935640	122804 280D 2614		2612		
CE 30		UNL	00	8M9931910	1229374 93TD 2615		2612		
CE 31					129914 7		2616		
CE 32					129919 % 8 129370 917E 2618		2617		
CE 33		SBR		8M9931910-003	129924 % 8 129371 917A 2619		2618		
CE 34		SBR		8M9931910-003	129929 % 8 129372 917C 2620		2619		
CE 35		SBR		8M9931910-002	129934 % 8 129373 917C 2621		2620		
CE 36		SBR		8M9931910-001	129939 % 8 129374 917D 2622		2621		
CE 37		SBR		8M9931910	4		2623		
CE 38		RCVS	00	8M9931920-004	SET GROUP 2 TO GROUP 1		2623		
CE 39					129944 B		2625		
CE 40					000001 0001 2624		2625		

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM	8MU99	-	-	COMMENTS	LOC	OP SU	ADDRESS	PLIN SER REF		
CF 01	SND	00	8MU9931910		129954 /	129374	937D	2626	CBO6	2633	12994 U	129389 93YI	2634 CBO9		
CF 02	SBD	A	8MU9931930-004	CHAR 10	RESET C AND A BITS OFF	129959 %	5	129380 9TYE	2628 CBO8	12994	8MU9931940-004	SET GROUP 4 TO GROUP 3	2633 CBO9		
CF 03	SBD	A	8MU9931930-003	11		129964 %	5	129381 9TYA	2629 CBO8	129974 %	8MU9931930-002	12	129974 %	5 129383 9TYC	2631 CBO8
CF 04	SBD	A	8MU9931930-003	11		129964 %	5	129381 9TYA	2629 CBO8	129974 %	8MU9931930-001	13	129974 %	5 129384 9TYD	2632 CBO8
CF 05	SBD	A	8MU9931930-002	12		129964 %	5	129382 9TYB	2630 I76CB08	129974 %	8MU9931930-002	12	129974 %	5 129383 9TYC	2631 CBO8
CF 06	SBD	A	8MU9931930-002	12		129964 %	5	129382 9TYB	2630 I76CB08	129974 %	8MU9931930-001	13	129974 %	5 129384 9TYD	2632 CBO8
CF 07	SBD	A	8MU9931930-001	13		129954 /	129374	937D	2626 CBO6	129994 1	8MU9931930	14	129994 1	130424 #42D	2636 CBO8
CF 08	RCVS	01	8MU9931940-004	SET GROUP 4 TO GROUP 3		129984 U	1	129389 93YI	2634 CBO9	129984 U	8MU9931930	1	129984 U	129384 93SD	2635 CBO8
CF 09	RCVS	00	8MU9931930			129989 /	129384	93SD	2635 CBO8	129989 /	8MU9931930	00	129989 /	129384 93SD	2636 CBO9
CF 10	TR	00	8MU9931930			129994 1	130424 #42D	2636 CBO8	129994 1	8MU9931930	00	129994 1	130424 #42D	2636 CBO9	
CF 11	TR	00	8MU9931930			129994 1	130424 #42D	2636 CBO8	129994 1	8MU9931930	00	129994 1	130424 #42D	2636 CBO9	
CF 12	TITLE		SECTION 9 SETUP	--ee X ----		2637				2637					
CF 13	TITLE		IN LINE PLANE CHKB-D-COMPLMETED		IN SECTION 9 SWITCHES	129999 1	130655 #65E	2639 C221	129999 1	8MU9937900-004	00	8MU9937900-004	SET SECTION 9 SWITCHES	2638 C221	
CF 14	SGN	00	8MU9935800			130004 T	133410 1416	2640 C226	130004 T	SGN	00	8MU9950340-004	133795 179E	2641 C226	
CF 15	SGN	00	8MU9935800			130004 T	133410 1416	2640 C226	130014 T	SGN	00	8MU9950340-004	133620 1626	2642 DB44	
CF 16	SGN	00	8MU9935800			130009 T	133795 179E	2641 C226	130014 T	SGN	00	8MU9950340-004	133580 1586	2641 DB44	
CF 17	SGN	00	8MU9935800			130009 T	133795 179E	2641 C226	130019 T	SGN	00	8MU9950340-004	133620 1626	2642 DB44	
CF 18	SGN	00	8MU9935800			130014 T	133795 179E	2641 C226	130024 T	SGN	00	8MU9951270-004	133590 199E	2644 DB04	
CF 19	SGN	00	8MU9935800			130024 T	133795 179E	2641 C226	130024 T	SGN	00	8MU9951270-004	133620 1626	2643 DA30	
CF 20	SGN	00	8MU9935800			130029 T	134030 0036	177DD26	130029 T	SGN	00	8MU9951360-004	134029 1	134030 0036	177DD26
CF 21	TITLE		CLEAR OUT WORK AREA			2646				2646					
CF 22	RCVS	01	8MU9931910-004	CLEAR OUT WORK AREA		130034 U	1	129374 93XD	2647 CBO6	130034 U	000004 0004	2648	130044 0	11 130049 #-DI	2649 CBO6
CF 23	BLM	00	8MU99004			2646				2646					
CF 24	TMC	11	8MU9935840			2646				2646					
CF 25	TITLE		INTO GROUP 3			2650				2650					
CF 26	8MU9935840	00	8MU99005	00005	0005	2651				2650					
CF 27	L0D	00	8MU9910855	5	GROUP MARKS	2652				2650					
CF 28	UNL	00	8MU9931930	INTO GROUP 3		2653				2650					
CF 29	TITLE					2654				2654					
CF 30	SBD	A	8MU9931910-004	CHAR 0	RESET C AND A BITS OFF	2655				2655					
CF 31	SBD	A	8MU9931910-003	1		2655				2655					
CF 32	SBD	A	8MU9931910-002	2		2658				2658					
CF 33	SBD	A	8MU9931910-001	3		2659				2659					
CF 34	SBD	A	8MU9931910-001	4		2660				2660					
CF 35	SBD	A	8MU9931910-001	4		2660				2660					
CF 36	TITLE		SET C BITS ON			2661	178			2661					
CF 37	SET	00	8MU9931926004	SET GROUP 2 TO GROUP 1		2662				2662					
CF 38	RCVS	01	8MU9931926004	SET GROUP 2 TO GROUP 1		2663				2663					
CF 39	SND	CO	8MU9931910			2664				2664					
CF 40	SBR	8MU9931930-004	CHAR 10	SET C BITS ON		2665				2665					
CF 41	SBR	8MU9931930-003	11			2667				2667					
CF 42	SBR	8MU9931930-003	12			2668				2668					
CF 43						2668				2668					

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM	8M999	- - -	COMMENTS	LOC	OP SU	ADDRESS	PGLIN	SER REF
CG 01	SBR	8M99931930-001	13	130119 %	8 129383	9L8C 2669	CB08	130124 %	8 129384	9L8D 2670	CB08	CG 02	
CG 03	TITLE	SET GROUP 4 TO GROUP 3	2671	130129 U	1 129389	93YI 2672	CB09	130134 /	129384	938D 2673	CB08	CG 04	RCVS 01 8M99931940<004
CG 05	SND 00	8M99931930	2673	130134 /	129384	938D 2673	CB08	130139 I	129384	938D 2674	CB08	CG 06	TR 00 8M99937000
CG 07	TITLE	SET GROUP 4 TO GROUP 3	2675	130139 I	130424 #42D	2674	CH39	1301439 I	130424 #42D	2674	CH39	CG 08	ALT PLANE CHKBD - COMPLEMENTED
CG 08	TITLE	SET SECTION 10 SWITCHES	2676	130144 T	130650 #656	2677	CH20	130144 T	130650 #656	2677	CH20	CG 09	8M99936000 SGN 00
CG 10	TITLE	ALT PLANE CHKBD - COMPLEMENTED	2678	130149 U	1 129374	93X0 2679	CB06	130154 \$	000004 0004	2680	CB06	CG 11	RCVS 01 8M99931910<004
CG 11	TITLE	CLEAR OUT WORK AREA	2682	130164 B	000010 0010	2683	AR45	130169 8	122818	281H 2684	AR45	CG 12	BLM 00 000004
CG 12	TITLE	INTO GROUP 2	2683	130169 7	129379	937I 2685	CB07	130174 %	8 129373	9L7C 2687	CB06	CG 13	TMC 11 8M99936040
CG 13	TITLE	INTO GROUP 4	2686	130179 %	8 129371	9L7A 2687	CB06	130179 %	8 129376	9L7F 2689	CB06	CG 14	8M99931920 003
CG 14	TITLE	INTO GROUP 2	2682	130174 %	8 129378	9L7H 2700	CB07	130179 %	8 129378	9L7H 2700	CB07	CG 15	8M99931920-001
CG 15	TITLE	INTO GROUP 4	2682	130199 8	122828	282H 2702	AR46	130199 8	129389	938I 2703	CB09	CG 16	UNL 00 8M99910870
CG 16	TITLE	INTO GROUP 4	2701	130204 7	129389	938I 2703	CB09	130204 7	129389	938I 2703	CB09	CG 17	UNL 00 8M99910870
CG 17	TITLE	INTO GROUP 4	2701	130209 %	8 129380	9L86 2705	CB08	130209 %	8 129382	9L8B 2706	CB08	CG 18	8M99931930-002
CG 18	TITLE	CHAR 10 RESET C BITS OFF	2704	130214 %	8 129384	9L8B 2706	CB08	130214 %	8 129384	9L8D 2707	CB08	CG 19	8M99931930
CG 19	TITLE	CHAR 10 RESET C BITS OFF	2704	130219 %	8 129382	9L8B 2706	CB08	130219 %	8 129384	9L8D 2707	CB08	CG 20	8M99931940-002
CG 20	TITLE	CHAR 10 RESET C BITS OFF	2704	130224 %	8 129385	9L8E 2708	CB09	130224 %	8 129387	9L8E 2709	CB09	CG 21	8M99931940
CG 21	TITLE	CHAR 10 RESET C BITS OFF	2704	130229 %	8 129387	9L8E 2709	CB09	130229 %	8 129387	9L8E 2709	CB09	CG 22	SBR SBR
CG 22	TITLE	CHAR 10 RESET C BITS OFF	2704	130234 %	8 129389	9L8I 2710	CB09	130234 %	8 129389	9L8I 2710	CB09	CG 23	8M99931940
CG 23	TITLE	CHAR 10 RESET C BITS OFF	2704	130239 1	130424 #42D	2711	CH39	130239 1	130424 #42D	2711	CH39	CG 24	UNL 00 -V--V-
CG 24	TITLE	CHAR 10 RESET C BITS OFF	2704	130240 7	129389	938I 2703	CB09	130240 7	129389	938I 2703	CB09	CG 25	8M99910870
CG 25	TITLE	CHAR 10 RESET C BITS OFF	2704	130249 %	8 129380	9L86 2705	CB08	130249 %	8 129380	9L86 2705	CB08	CG 26	8M99931930
CG 26	TITLE	CHAR 10 RESET C BITS OFF	2704	130250 %	8 129384	9L8B 2706	CB08	130250 %	8 129384	9L8B 2706	CB08	CG 27	8M99931930-002
CG 27	TITLE	CHAR 10 RESET C BITS OFF	2704	130254 %	8 129385	9L8E 2708	CB09	130254 %	8 129385	9L8E 2708	CB09	CG 28	8M99931940
CG 28	TITLE	CHAR 10 RESET C BITS OFF	2704	130259 %	8 129387	9L8E 2709	CB09	130259 %	8 129387	9L8E 2709	CB09	CG 29	8M99931940-002
CG 29	TITLE	CHAR 10 RESET C BITS OFF	2704	130264 %	8 129389	9L8I 2710	CB09	130264 %	8 129389	9L8I 2710	CB09	CG 30	8M99931940
CG 30	TITLE	CHAR 10 RESET C BITS OFF	2704	130269 %	8 129390	9L8I 2710	CB09	130269 %	8 129390	9L8I 2710	CB09	CG 31	8M99931940
CG 31	TITLE	CHAR 10 RESET C BITS OFF	2704	130274 %	8 129395	U79E 2717	D117	130274 %	8 129395	U79E 2717	D117	CG 32	SBR
CG 32	TITLE	CHAR 10 RESET C BITS OFF	2704	130279 %	8 129395	U79E 2717	D117	130279 %	8 129395	U79E 2717	D117	CG 33	TR 00 8M99937000
CG 33	TITLE	CHAR 10 RESET C BITS OFF	2704	130284 %	8 129398	9L8I 2711	CH39	130284 %	8 129398	9L8I 2711	CH39	CG 34	TITLE SECTION 11 SETUP --66 X -6-6
CG 34	TITLE	SECTION 11 SETUP --66 X -6-6	2712	130294 %	8 129398	9L8I 2711	CH39	130294 %	8 129398	9L8I 2711	CH39	CG 35	ALT PLANE CHKBD - COMPLEMENTED
CG 35	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130299 %	8 129398	9L8I 2714	CH39	130299 %	8 129398	9L8I 2714	CH39	CG 36	8M999360200 SGN 00 8M99937850-004
CG 36	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130304 %	8 129399	9L8I 2714	CH39	130304 %	8 129399	9L8I 2714	CH39	CG 37	8M999353050-004
CG 37	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130309 %	8 129399	9L8I 2714	CH39	130309 %	8 129399	9L8I 2714	CH39	CG 38	8M999353360-004
CG 38	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130314 %	8 129399	9L8I 2714	CH39	130314 %	8 129399	9L8I 2714	CH39	CG 39	8M999353460-004
CG 39	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130319 %	8 129399	9L8I 2714	CH39	130319 %	8 129399	9L8I 2714	CH39	CG 40	8M999353500-004
CG 40	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130324 %	8 129399	9L8I 2714	CH39	130324 %	8 129399	9L8I 2714	CH39	CG 41	8M99954060-004
CG 41	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130329 %	8 129399	9L8I 2714	CH39	130329 %	8 129399	9L8I 2714	CH39	CG 42	8M99954160-004
CG 42	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130334 %	8 129399	9L8I 2714	CH39	130334 %	8 129399	9L8I 2714	CH39	CG 43	8M99954160-004
CG 43	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130339 %	8 129399	9L8I 2714	CH39	130339 %	8 129399	9L8I 2714	CH39	CG 44	8M99954160-004
CG 44	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130344 %	8 129399	9L8I 2714	CH39	130344 %	8 129399	9L8I 2714	CH39	CG 45	8M99954160-004
CG 45	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130349 %	8 129399	9L8I 2714	CH39	130349 %	8 129399	9L8I 2714	CH39	CG 46	8M99954160-004
CG 46	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130354 %	8 129399	9L8I 2714	CH39	130354 %	8 129399	9L8I 2714	CH39	CG 47	8M99954160-004
CG 47	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130359 %	8 129399	9L8I 2714	CH39	130359 %	8 129399	9L8I 2714	CH39	CG 48	8M99954160-004
CG 48	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130364 %	8 129399	9L8I 2714	CH39	130364 %	8 129399	9L8I 2714	CH39	CG 49	8M99954160-004
CG 49	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130369 %	8 129399	9L8I 2714	CH39	130369 %	8 129399	9L8I 2714	CH39	CG 50	8M99954160-004
CG 50	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130374 %	8 129399	9L8I 2714	CH39	130374 %	8 129399	9L8I 2714	CH39	CG 51	8M99954160-004
CG 51	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130379 %	8 129399	9L8I 2714	CH39	130379 %	8 129399	9L8I 2714	CH39	CG 52	8M99954160-004
CG 52	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130384 %	8 129399	9L8I 2714	CH39	130384 %	8 129399	9L8I 2714	CH39	CG 53	8M99954160-004
CG 53	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130389 %	8 129399	9L8I 2714	CH39	130389 %	8 129399	9L8I 2714	CH39	CG 54	8M99954160-004
CG 54	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130394 %	8 129399	9L8I 2714	CH39	130394 %	8 129399	9L8I 2714	CH39	CG 55	8M99954160-004
CG 55	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130399 %	8 129399	9L8I 2714	CH39	130399 %	8 129399	9L8I 2714	CH39	CG 56	8M99954160-004
CG 56	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130404 %	8 129399	9L8I 2714	CH39	130404 %	8 129399	9L8I 2714	CH39	CG 57	8M99954160-004
CG 57	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130409 %	8 129399	9L8I 2714	CH39	130409 %	8 129399	9L8I 2714	CH39	CG 58	8M99954160-004
CG 58	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130414 %	8 129399	9L8I 2714	CH39	130414 %	8 129399	9L8I 2714	CH39	CG 59	8M99954160-004
CG 59	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130419 %	8 129399	9L8I 2714	CH39	130419 %	8 129399	9L8I 2714	CH39	CG 60	8M99954160-004
CG 60	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130424 %	8 129399	9L8I 2714	CH39	130424 %	8 129399	9L8I 2714	CH39	CG 61	8M99954160-004
CG 61	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130429 %	8 129399	9L8I 2714	CH39	130429 %	8 129399	9L8I 2714	CH39	CG 62	8M99954160-004
CG 62	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130434 %	8 129399	9L8I 2714	CH39	130434 %	8 129399	9L8I 2714	CH39	CG 63	8M99954160-004
CG 63	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130439 %	8 129399	9L8I 2714	CH39	130439 %	8 129399	9L8I 2714	CH39	CG 64	8M99954160-004
CG 64	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130444 %	8 129399	9L8I 2714	CH39	130444 %	8 129399	9L8I 2714	CH39	CG 65	8M99954160-004
CG 65	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130449 %	8 129399	9L8I 2714	CH39	130449 %	8 129399	9L8I 2714	CH39	CG 66	8M99954160-004
CG 66	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130454 %	8 129399	9L8I 2714	CH39	130454 %	8 129399	9L8I 2714	CH39	CG 67	8M99954160-004
CG 67	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130459 %	8 129399	9L8I 2714	CH39	130459 %	8 129399	9L8I 2714	CH39	CG 68	8M99954160-004
CG 68	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130464 %	8 129399	9L8I 2714	CH39	130464 %	8 129399	9L8I 2714	CH39	CG 69	8M99954160-004
CG 69	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130469 %	8 129399	9L8I 2714	CH39	130469 %	8 129399	9L8I 2714	CH39	CG 70	8M99954160-004
CG 70	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130474 %	8 129399	9L8I 2714	CH39	130474 %	8 129399	9L8I 2714	CH39	CG 71	8M99954160-004
CG 71	TITLE	SECTION 11 SET SECTION 11 SWITCHES	2713	130479 %	8 129399	9L8I 2714	CH39	130479 %	8 129399	9L8I 2714	CH39	CG 7	

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8MU99	LOC OP SU	ADDRESS	COMMENT	REF	
CH 01	RCVS	01	8MU99319106004	CLEAR OUT WORK AREA	130279 U	1 129374 93AD 2722	CBS06			
CH 02	RCVS	00	800004	000004 0004 2723	130284 S	000004 0004 2723	CBS06			
CH 03	TMC	11	8MU9936240		130289 O	11 130294 #KID 2724	CH05			
CH 04		SET	00	000010	00010 0010 2726	130294 B	000010 0010 2726	2725		
CH 05	8MU9936240	SET	00	8MU9910870	-V-V--V-	130299 8	122828 282H 2727	AR46		
CH 06	LDD	00	8MU9910870	-V-V--V-	130299 8	122828 282H 2727	AR46			
CH 07	UNL	00	8MU9931920	INTO GROUP 2	130304 7	129379 9371 2728	CBS07			
CH 08	SBR	8MU9931910-004	CHAR 0	RESET C BITS OFF	130309 %	8 129370 9L76 2730	CBS06	2729		
CH 09	SBR	8MU9931910-002	2	CHAR 0	RESET C BITS OFF	130314 %	8 129372 9L7B 2731	CBS06		
CH 10	SBR	8MU9931910	4	CHAR 0	RESET C BITS OFF	130319 %	8 129374 9L7D 2732	CBS06		
CH 11	SBR	8MU9931920-004	5	CHAR 0	RESET C BITS OFF	130324 %	8 129375 9L7E 2733	CBS07		
CH 12	SBR	8MU9931920-002	7	CHAR 0	RESET C BITS OFF	130329 %	8 129377 9L7G 2734	CBS07		
CH 13	SBR	8MU9931920-002	9	CHAR 0	RESET C BITS OFF	130334 %	8 129379 9L7I 2735	CBS07		
CH 14	SBR	8MU9931920	9	CHAR 0	RESET C BITS OFF	130364 %	8 129386 9L8C 2741	CBS08		
CH 15	TITLE	V-V--VV-V-	8MU9931940	INTO GROUP 4	130339 8	122818 281H 2737	AR45	2736		
CH 16	LDD	00	8MU9931940	V-V--VV-V-	130339 8	122818 281H 2737	AR45			
CH 17	UNL	00	8MU9931940	V-V--VV-V-	130344 7	129389 9381 2738	CBS09			
CH 18	TITLE	8MU9931930-003	CHAR 11	RESET C BITS OFF	130349 %	8 129381 9L8A 2740	CBS08	2739		
CH 19	SBR	8MU9931930-001	13	CHAR 11	RESET C BITS OFF	130354 %	8 129383 9L8C 2741	CBS08		
CH 20	SBR	8MU9931940-003	16	CHAR 11	RESET C BITS OFF	130359 %	8 129386 9L8F 2742	CBS09		
CH 21	SBR	8MU9931940-001	18	CHAR 11	RESET C BITS OFF	130364 %	8 129388 9L8H 2743	CBS09		
CH 22	SBR	8MU9931940-001	18	CHAR 11	RESET C BITS OFF	130369 1	130424 #42D 2744	CH39		
CH 23	TITLE	8MU9931940	TR	00	8MU9937000	130379 1	129699 9691 2748	CJ18		
CH 24	TITLE	8MU9936600	SECTION 12 SETUP	66-- X 66--	8MU9936600	130374 T	130640 #646 2747	2746		
CH 25	8MU9936400	SGN	00	8MU993782G-004	2D CHECKERBOARD - COMPLEMENTED	130379 1	129699 9691 2748	CJ18		
CH 26	8MU9936400	SGN	00	8MU9935200	2D CHECKERBOARD - COMPLEMENTED	130379 1	129699 9691 2748	CJ18		
CH 27	8MU9936400	SGN	00	8MU9935200	2D CHECKERBOARD - COMPLEMENTED	130379 1	129699 9691 2748	CJ18		
CH 28	TITLE	8MU9936600	SECTION 13 SETUP	--66 X --66	8MU9936600	130384 T	130635 #63E 2751	CJ17		
CH 29	8MU9936600	SGN	00	8MU9937800-004	2D CHECKERBOARD - COMPLEMENTED	130384 T	130635 #63E 2751	CJ17		
CH 30	8MU9936600	SGN	00	8MU9937800-004	2D CHECKERBOARD - COMPLEMENTED	130384 T	130635 #63E 2751	CJ17		
CH 31	SGN	00	8MU9956460-004	130394 T	135755 V75E 2753	DO23				
CH 32	SGN	00	8MU9956460-004	130394 T	135755 V75E 2752	183DN20				
CH 33	SGN	00	8MU9956460-004	130394 T	135755 V75E 2753	DO23				
CH 34	SGN	00	8MU9956460-004	130404 T	135755 V75E 2755	DO36				
CH 35	SGN	00	8MU9956460-004	130409 T	135890 V856 2756	DP13				
CH 36	SGN	00	8MU9957000-004	130414 T	135910 V916 2757	DP31				
CH 37	SGN	00	8MU9935420	130419 1	129799 9791 2758	CD36				
CH 38	8MU9937000	RCVS	01	8MU9910700	RESET ASU 01 TO 000001	130434 H	1 122717 2716 2763	AR17		
CH 39	8MU9937000	RCVS	01	8MU9910700	RESET ASU 01 TO 000001	130434 H	1 122717 2716 2762	2762		
CH 40	8MU9937000	RCVS	00	8160000	SET LOWER 8CK TO BLANKS	130429 \$	0160000 00#4 2760	2759		
CH 41	TITLE	8BLM	00	800004	1 000004 00#4 2760	130424 U	1 000004 00#4 2760	2759		
CH 42	TITLE	8BLM	01	8MU9910700	RESET ASU 01 TO 000001	130434 H	1 122717 2716 2763	AR17		
CH 43	TITLE	8BLM	01	8MU9910700	RESET ASU 01 TO 000001	130434 H	1 122717 2716 2763	2764		

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8MU99	-	-	COMMENTS	LOC	OP SU	ADDRESS	PGLIN	SER REF
CI_01					FILE 0000-0799	66--							
CI_02				SET 00	600004			AT 0004	130439 B	000004 0004	2765		
CI_03				RCVS 00	600004			66--	130444 U	1 000004 004	2766		
CI_04				SND 00	8MU9931910			SND 20 CHARS	130449 /	129374 937D	2768	184CB06	
CI_05				FILE	0000-0799				130454 B	000012 0012	2769		
CI_06				SET 00	600012			AT 0024-	130454 B	000004 0004	2770		
CI_07				SND 00	600004			66-- 66-- 66--	130459 /	000004 0004	2771		
CI_08				FILE	0000-0799								
CI_09				SET 00	600004			66--	130464 B	000004 0004	2772		
CI_10				SND 00	600014			AT 0084-	130469 /	000014 0014	2774		
CI_11				FILE	0000-0799			20 CHARS-FROM 0014	130469 /	000014 0014	2775		
CI_12				FILE	0000-0799			66-- 66-- 66--	130474 B	000140 0140	2776		
CI_13				SET 00	600140			AT 0104-	130474 B	000004 0004	2777		
CI_14				SND 00	600004			700 CHARS-FROM 0004	130479 /	000004 0004	2778		
CI_15				FILE	0000-0799								
CI_16				SET 00	600004			66--	130474 B	000004 0004	2780		
CI_17				SND 00	600014			20 CHARS-FROM 0014	130484 B	000014 0014	2781		
CI_18				FILE	0000-0799			66-- 66-- 66--	130494 B	000036 0036	2782		
CI_19				SET 00	600036			AT 0824-	130494 B	000084 0084	2784		
CI_20				SND 00	600084			180 CHARS-FROM 0804	130499 /	000084 0084	2786		
CI_21				FILE	1000-7999								
CI_22				RAD 02	8MU99310550			1000 CHARS PER	130504 H	2 122688 260B	2787	AR05	
CI_23				SET 00	600200			1000 CHARS PER	130509 B	000200 0200	2787	AR05	
CI_24				SND 00	600004			AT 1004-7000 CHARS-FROM 0004	130514 /	000004 0004	2788	185	
CI_25				FILE	1000-7999								
CI_26				SUB 02	BMU9910510			REDUCE 7 CTR BY 1	130519 P	2 122682 260B	2800	A042	
CI_27				TRZ 02	8MU99317500			REDUCE 7 CTR BY 1	130524 N	2 130534 #5LD	2801	C130	
CI_28				TR 00	8MU99317420				130529 I	130514 #51D	2802	C124	
CI_29				FILE	1000-7999								
CI_30				RAD 02	8MU99310570			1000 CHARS PER	130534 H	2 122692 260B	2804	AR08	
CI_31				SET 00	600040			200 CHARS PER	130539 B	000040 0040	2805		
CI_32				SND 00	600084			AT 8004-2000 CHARS-FROM 0804	130544 /	000084 0084	2806		
CI_33				FILE	1000-7999								
CI_34				SUB 02	BMU9910510			REDUCE 10 CTR BY 1	130549 P	2 122682 260B	2808	A042	
CI_35				TRZ 02	8MU99317600			REDUCE 10 CTR BY 1	130554 N	2 130564 #50D	2809	C138	
CI_36				TR 00	8MU99317520				130559 I	130544 #54D	2810	C132	
CI_37				FILE	1000-7999								
CI_38				RAD 12	8MU9910550			AT 10004-8000 CHARS-FROM 0004	130564 H	12 122688 2F8H	2812	AR05	
CI_39				SET 03	8MU9910554			600004	130569 H	3 122689 26HI	2813	AR06	
CI_40				SET 00	600200			000004	130574 B	000200 0200	2814		
CI_41				SND 00	600004			AT 10004-8000 CHARS-FROM 0004	130579 /	000004 0004	2815		

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8MU99	COMMENTS	LOC	OP SU	ADDRESS	PGLIN SER REF
CJ 04							2820			
CJ 01	SUB	03	8MU9910510	REDUCE_8_CTR_BY_1	130584 P 3 122682 26HB 2817	A042				
CJ 02	TRZ	03	8MU9937660	REDUCE_8_CTR_BY_1	130589 N 3 130599 #511 2818	CJ06				
CJ 03	TR	00	8MU9937620		130594 1 130579 #571 2819	CJ41				
CJ 05						2821				
CJ 06	8MU9937660	RAD	02	8MU9910514	2 AT 18004-2000 CHARS-FROM 8004	130604 / 008004 8004 2823	A043			
CJ 07	8MU9937670	SND	00	8MU9910514	2 122683 26QC 2822					
CJ 08						2824				
CJ 09	SUB	02	8MU9910510	REDUCE_2_CTR_BY_1	130609 P 2 122682 26QB 2825	A042				
CJ 10	TRZ	02	8MU9937710	REDUCE_7_CTR_BY_1	130624 N 2 130624 #6KD 2826	CJ14				
CJ 11	TR	00	8MU9937670		130619 1 130604 #600 2827	CJ07				
CJ 12						2828				
CJ 13						2829				
CJ 14	8MU9937710	SUB	12	8MU9910510	REDUCE_7_CTR_BY_1	130624 P 12 122682 2FB8 2830	A042			
CJ 15						187CJ17				
CJ 16	TR	00	8MU9937604		130634 I 130569 #561 2822	CJ39				
CJ 17	8MU9937800	NOP	00	8MU9956000	SECTION 13 SWITCH	130639 A 135584 V58D 2833	DN18			
CJ 18	8MU9937820	NOP	00	8MU9956000	SECTION 12 SWITCH	130644 A 135584 V58D 2834	DN18			
CJ 19	8MU9937850	NOP	00	8MU9953000	SECTION 11 SWITCH	130649 A 134564 U56D 2835	DG41			
CJ 20	8MU9937870	NOP	00	8MU9953000	SECTION 10 SWITCH	130654 A 134564 U56D 2836	DG41			
CJ 21	8MU9937900	NOP	00	8MU9950000	SECTION 9 SWITCH	130659 A 133404 T40D 2837	CJ24			
CJ 22	8MU9937920	NOP	00	8MU9950000	SECTION 8 SWITCH	130664 A 133404 T40D 2838	CJ24			
CJ 23						2839				
CJ 24	LDA	00	8MU9910770	SET INITIAL TEST ADDRESS	130669 # 122764 276D 2840	ARR27				
CJ 25						2839				
CJ 26						2842				
CJ 27						2843				
CJ 28	8MU9939040	SET	00	000020	TEST ADDRESS	130679 B 000020 2844	CJ29			
CJ 29	8MU9939050	LDD	00	000000	TEST ADDRESS	130684 8 000000 2845	CJ29			
CJ 30	8MU9939060	NOP	00	8MU9939100	SECTION 7 SWITCH	130689 A 000000 2846	188CK05			
CJ 31						2846				
CJ 32						2848				
CJ 33						2849				
CJ 34	8MU9939080	RCVS	01	8MU99390506002	TEST MTA HUNDREDS ORDER	130709 U 1 130682 #6YB 2851	CJ29			
CJ 35	8MU9939080	RCVS	01	8MU99390506003	TEST MTA TEENS ORDER	130724 U 1 130683 #6YC 2855	CJ29			
CJ 36						2855				
CJ 37						2856				
CJ 38						2856				
CJ 39	8MU9939090	RCVS	01	8MU9939050603	TEST MTA TEENS ORDER	130724 • 2 130799 #7RI 2857	CJ18			
CJ 40						2857				
CJ 41						2858				
CJ 42						2858				

INDEX	TAG	OP	NU AT	OPERA ND	PROGRAM	8MU99	-	-	COMMENTS	LOC	OP SU	ADDRESS	REF
CK 01										2859			
CK 02	8MU9939095 CMF	00	8MU993911C	TEST FOR EQUAL TO 66--	TEST FOR EQUAL TO 66--	130739 4	129209 9201	2860	C412	2859			
CK 03	8MU9939095 CMF	00	8MU9939130	GO TO CHK FOR C BIT D OR P	CHARACTER ERROR	130744 L	130814 #81D 2861	130749 1	C412	130749 1	131779 /771	2862	189C12
CK 04		TR	00	8MU9943000	CHARACTER ERROR	130749 1	131779 /771	2862	C412				
CK 05	8MU9939100 RCVS	01	8MU99390506001	TEST MTA THOUSANDS ORDER	130754 U	1 130681 #6YA 2863	130769	C429	130769 U	1 130682 #6YB 2867	130769	C429	2866
CK 06	8MU9939110 RCVS	02	8MU9939110	IF 8000 U 6 2000 D	USE 66--	130759 •	4 130769 #X61 2864	130769 •	C429	130769 •	2 130739 #7L1 2869	130779	C429
CK 07		TR	02	8MU9939095	IF 8000 U 6 2000 D	USE 66--	130764 •	2 130739 #7L1 2865	C429	130764 •	2 130739 #7L1 2865	130764	C429
CK 08	8MU9939110 RCVS	01	8MU99390506002	IF 800 UP 6 200 DOWN	USE 66--	130769 U	1 130682 #6YB 2867	130769 U	C429	130769 U	1 130682 #6YB 2867	130769	C429
CK 09	8MU9939110 RCVS	02	8MU9939120	IF 800 UP 6 200 DOWN	USE 66--	130774 •	4 130784 #X8D 2868	130774 •	C429	130774 •	2 130739 #7L1 2869	130779	C429
CK 10		TR	02	8MU9939095	IF 800 UP 6 200 DOWN	USE 66--	130779 •	2 130739 #7L1 2869	C429	130779 •	2 130739 #7L1 2869	130779	C429
CK 11		TR	02	8MU9939095	IF 800 UP 6 200 DOWN	USE 66--	130779 •	2 130739 #7L1 2869	C429	130779 •	2 130739 #7L1 2869	130779	C429
CK 12	8MU9939120 RCVS	01	8MU99390506003	IF 80 UP 6 20 DOWN USE 66--	130784 U	1 130683 #6YC 2871	130784 U	C429	130784 U	1 130683 #6YC 2871	130784	C429	
CK 13	8MU9939120 RCVS	02	8MU9939125	IF 80 UP 6 20 DOWN USE 66--	130789 •	4 130799 #X91 2872	130789 •	C429	130789 •	2 130739 #7L1 2873	130794	C429	
CK 14		TR	02	8MU9939095	IF 80 UP 6 20 DOWN USE 66--	130794 •	2 130739 #7L1 2873	C429	130794 •	2 130739 #7L1 2873	130794	C429	
CK 15		TR	02	8MU9939095	IF 80 UP 6 20 DOWN USE 66--	130794 •	2 130739 #7L1 2873	C429	130794 •	2 130739 #7L1 2873	130794	C429	
CK 16									2874				
CK 17	8MU9939125 CMF	00	8MU9939130	TEST FOR EQUAL TO 66--	TEST FOR EQUAL TO 66--	130799 4	129219 9211	2876	C413	2875			
CK 18	8MU9939125 CMF	00	8MU9939130	GO TO CHK FOR C BIT D OR P	CHARACTER ERROR	130804 L	130814 #81D 2877	130809 1	C413	132234 523D 2878	190CS26		
CK 19		TR	00	8MU9944600	CHARACTER ERROR	130804 L	130814 #81D 2877	130809 1	C413	132234 523D 2878	190CS26		
CK 20		TR	00	8MU9944600	CHARACTER ERROR	130809 1	132234 523D 2878	130809 1	C413	132234 523D 2878	190CS26		
CK 21	8MU9939130 LDA	00	8MU9939050	LD TEST ADDR	130814 *	130684 #68D 2879	130814 *	C429	130824 *	130974 #97E 2886	130844	C426	
CK 22		UL	00	8MU9940120-004	REDUCE BY 19	130819 P	122696 269F 2880	130819 P	C429	130824 *	130974 #97E 2886	130844	C426
CK 23		UL	00	8MU9940120-004	REDUCE BY 19	130819 P	122696 269F 2880	130819 P	C429	130824 *	130974 #97E 2886	130844	C426
CK 24		R	02	8MU9910520	SET C BIT CHECK ADDR	130824 *	130974 #97D 2881	130824 *	C429	130824 *	130974 #97D 2881	130824	C426
CK 25		R	02	8MU9910520	SET C BIT CHECK ADDR	130829 H	2 122685 260E 2882	130829 H	C429	130829 H	2 122685 260E 2882	130829	C426
CK 26		R	02	8MU9910510	RESET ALL SEQ CHK SWITCHES	130834 B	000001 0001 2884	130834 B	C426	130834 B	000001 0001 2884	130834	C426
CK 27		R	02	8MU99001	A	130839 8	122682 268B 2885	130839 8	C426	130839 8	122682 268B 2885	130839	C426
CK 28		R	02	8MU9940100-004	RESET ALL SEQ CHK SWITCHES	130844 7	130975 #97E 2886	130844 7	C426	130844 7	130975 #97E 2886	130844	C426
CK 29		R	02	8MU9940120-004	REDUCE BY 140-004	130854 7	130985 #98E 2888	130854 7	C426	130854 7	130985 #98E 2888	130854	C426
CK 30		R	02	8MU9940120-004	REDUCE BY 140-004	130859 7	130980 #98D 2887	130859 7	C426	130859 7	130980 #98D 2887	130859	C426
CK 31		R	02	8MU9940120-004	REDUCE BY 140-004	130959 7	130980 #98E 2887	130959 7	C426	130959 7	130980 #98E 2887	130959	C426
CK 32		R	02	8MU9940120-004	REDUCE BY 140-004	130964 7	130995 #99E 2900	130964 7	C426	130964 7	130995 #99E 2900	130964	C426
CK 33	8MU9939300 MC	00	8MU9939450	SECTION 7 SWITCH	130974 U	1 130924 #92D 2901	130974 U	C426	130974 U	1 130924 #92D 2901	130974	C426	
CK 34		R	02	8MU9939450	TEST MTA FOR 800	130974 U	1 130924 #92D 2902	130974 U	C426	130974 U	1 130924 #92D 2902	130974	C426
CK 35		R	02	8MU9939450	TEST MTA FOR 800	130974 U	1 130924 #92D 2903	130974 U	C426	130974 U	1 130924 #92D 2903	130974	C426
CK 36		R	02	8MU9939450	TEST MTA FOR 800	130974 U	1 130924 #92D 2904	130974 U	C426	130974 U	1 130924 #92D 2904	130974	C426
CK 37		R	02	8MU9939508002	TEST MTA FOR 800	130989 U	1 130962 #6YB 2906	130989 U	C426	130989 U	1 130962 #6YB 2906	130989	C426
CK 38	8MU9939360 RCVS	01	8MU9939508003	TEST MTA FOR 800	130989 U	1 130962 #6YB 2907	130989 U	C426	130989 U	1 130962 #6YB 2907	130989	C426	
CK 39		R	02	8MU9939508003	TEST MTA FOR 800	130989 U	1 130962 #6YB 2908	130989 U	C426	130989 U	1 130962 #6YB 2908	130989	C426
CK 40		R	02	8MU9939508003	TEST MTA FOR 800	130989 U	1 130962 #6YB 2908	130989 U	C426	130989 U	1 130962 #6YB 2908	130989	C426
CK 41		R	02	8MU9939508003	TEST MTA FOR 800	130989 U	1 130962 #6YB 2910	130989 U	C426	130989 U	1 130962 #6YB 2910	130989	C426
CK 42	8MU9939300 MC	01	8MU9939508003	TEST MTA FOR 800	130989 U	1 130962 #6YB 2911	130989 U	C426	130989 U	1 130962 #6YB 2911	130989	C426	
CK 43		R	02	8MU9940000	66-- IF 8000-800-80 DOWN	130989 U	1 130962 #6YB 2911	130989 U	C426	130989 U	1 130962 #6YB 2911	130989	C426
CK 44		R	02	8MU9939508003	TEST MTA FOR 800	130989 U	1 130962 #6YB 2912	130989 U	C426	130989 U	1 130962 #6YB 2912	130989	C426

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8M999	- - -	COMMENTS	LOC OP SU	ADDRESS	PGLIN SER REF	
CL 01		TR	00	8M99940000	66--		MUST BE ZERO	130919 1	130974 #97D 2913	CL15	
CL 02	AMU9939450	RCVS	01	8MUG9390506001	TEST MTA FOR 8000		130924 U 1 130681 #6YA 2914	130934 4	2 130974 #9PD 2916	CL29	
CL 03		TZB	08	8MUG93939480	8MUG9390506001	TEST MTA FOR 8000	130929 *	4 130939 #Z31 2915	192CL06		
CL 04		TZB	02	8MUG93940000	USE 66-- SEQ CHK		130924 U 1 130681 #6YA 2914	130934 4	2 130974 #9PD 2916	CL29	
CL 05	AMU9939480	RCVS	01	8MUG9390506002	TEST MTA FOR 800		130939 U 1 130682 #6YB 2918	130944 *	4 130954 #Z5D 2919	CL29	
CL 06		TZB	02	8MUG93939510	TEST MTA FOR 80		130939 U 1 130683 #6YC 2922	130954 *	4 130969 #Z6I 2923	CL29	
CL 07		TZB	08	8MUG93939550	--66 IF 8000-800-80 DOWN		130954 U 1 130683 #6YC 2922	130955 *	4 130969 #Z6I 2923	CL29	
CL 08		TZB	02	8MUG93940000	USE 66-- SEQ CHK		130949 *	2 130974 #9PD 2920	CL15		
CL 09	AMU9939510	RCVS	01	8MUG9390506003	TEST MTA FOR 80		130954 U 1 130683 #6YC 2922	130955 *	4 130969 #Z6I 2923	CL29	
CL 10		TZB	08	8MUG93939550	--66 IF 8000-800-80 DOWN		130954 U 1 130683 #6YC 2922	130955 *	4 130969 #Z6I 2923	CL29	
CL 11		TZB	02	8MUG93940140 NOP	00	SW 3	130984 A 131229 /221 2929	130989 A	131189 /181 2930	CM31	
CL 12		TZB	00	8MUG93940140 NOP	00	SW 2	130984 A 131229 /221 2929	130989 A	131189 /181 2930	CM31	
CL 13	AMU9939550	TITLE		SETUP FOR --66 SEQ CHK		SW 5	130969 T 130985 #98E 2926	130974 U 1 000000 00#0 2927	130974 U 1 000000 00#0 2927	CL18	
CL 14		AMU9939550	SGN	00	8MUG93940140-004	SET SWITCH 3 TO TR	000000	C BIT CHECK ADDRESS	130969 T 130985 #98E 2926	130974 U 1 000000 00#0 2927	CL18
CL 15	AMU9940000	RCVS	01	8MUG93940140-004	SET SWITCH 3 TO TR	000000	C BIT CHECK ADDRESS	130974 U 1 000000 00#0 2927	130974 U 1 000000 00#0 2927	CL18	
CL 16	AMU9940100C NOP	00	8MUG93941150	SW 4	000000	C BIT CHECK ADDRESS	130979 A 131284 /28D 2928	130979 A 131284 /28D 2928	130979 A 131284 /28D 2928	CM01	
CL 17	AMU9940120C NOP	00	8MUG93941150	SW 4	000000	C BIT CHECK ADDRESS	130984 A 131229 /221 2929	130984 A 131229 /221 2929	130984 A 131229 /221 2929	CM31	
CL 18	AMU9940140 NOP	00	8MUG93940550	SW 3	000000	C BIT CHECK ADDRESS	130994 A 131099 /091 2931	130994 A 131099 /091 2931	130994 A 131099 /091 2931	CL42	
CL 19	AMU9940160 NOP	00	8MUG93940550	SW 2	000000	C BIT CHECK ADDRESS	130994 A 131099 /091 2931	130994 A 131099 /091 2931	130994 A 131099 /091 2931	CL42	
CL 20	AMU9940180 NOP	00	8MUG93940550	SW 1	000000	C BIT CHECK ADDRESS	130999 A 131039 /031 2932	130999 A 131039 /031 2932	130999 A 131039 /031 2932	CL29	
CL 21		TZB	00	8MUG93940250	TEST FOR C BIT PICK		130999 A 131039 /031 2932	130999 A 131039 /031 2932	130999 A 131039 /031 2932	CL29	
CL 22		RCVS	01	8MUG93940250	TEST FOR NO C BIT PICK		130999 U 1 131019 /#AI 2933	130999 U 1 131019 /#AI 2933	130999 U 1 131019 /#AI 2933	CL25	
CL 23		TSL	01	8MUG93942390	PICK ERROR		131014 I 1 131619 /6/I 2935	131014 I 1 131619 /6/I 2935	131014 I 1 131619 /6/I 2935	CP09	
CL 24	AMU9940250 SGN	00	8MUG93940180-004	SET SW 1		000000	C BIT CHECK ADDRESS	131019 T 130995 #99E 2937	131019 T 130995 #99E 2937	CL20	
CL 25	AMU9940250 SGN	00	8MUG93940180-004	SET SW 1		000000	C BIT CHECK ADDRESS	131024 H 3 122683 26HC 2938	131024 H 3 122683 26HC 2938	CL20	
CL 26	AMU9940350 TZR	03	8MUG93910514	2	000000	INCRC BIT CHK ADDR BY 00001	131029 E 1 130974 #9XD 2939	131029 E 1 130974 #9XD 2939	131029 E 1 130974 #9XD 2939	AO43	
CL 27	AMU9940350 TZR	00	8MUG93910514	2	000000	INCRC BIT CHK ADDR BY 00001	131034 I 1 130974 #9XD 2940	131034 I 1 130974 #9XD 2940	131034 I 1 130974 #9XD 2940	CL15	
CL 28	AMU9940350 TZR	00	8MUG93910514	2	000000	INCRC BIT CHK ADDR BY 00001	131039 *	7 131049 /#DI 2941	131039 *	7 131049 /#DI 2941	
CL 29	AMU9940350 TZR	00	8MUG93910514	2	000000	INCRC BIT CHK ADDR BY 00001	131049 *	7 131049 /#DI 2941	131049 *	7 131049 /#DI 2941	
CL 30	AMU9940370 RCVS	01	8MUG939428406001	DECREASE CTR BY 1		131049 U 1 131771 /7XA 2943	131049 U 1 131771 /7XA 2943	131049 U 1 131771 /7XA 2943	194CA10		
CL 31	AMU9940370 RCVS	01	8MUG939428406001	DECREASE CTR BY 1		131049 U 1 131771 /7XA 2943	131049 U 1 131771 /7XA 2943	131049 U 1 131771 /7XA 2943	194CA10		
CL 32	AMU9940370 RCVS	01	8MUG939428406001	DECREASE CTR BY 1		131049 U 1 131771 /7XA 2943	131049 U 1 131771 /7XA 2943	131049 U 1 131771 /7XA 2943	194CA10		
CL 33	AMU9940400 TITLE		8MUG93910510	03	8MUG93910510	DECRAESE CTR BY 1	131054 I 1 131549 /5UI 2944	131054 I 1 131549 /5UI 2944	131054 I 1 131549 /5UI 2944	CO31	
CL 34	AMU9940400 TITLE		8MUG93910510	03	8MUG93910510	DECRAESE CTR BY 1	131054 I 1 131549 /5UI 2944	131054 I 1 131549 /5UI 2944	131054 I 1 131549 /5UI 2944	CL15	
CL 35	AMU9940400 TITLE		8MUG93910510	03	8MUG93910510	DECRAESE CTR BY 1	131054 I 1 131549 /5UI 2944	131054 I 1 131549 /5UI 2944	131054 I 1 131549 /5UI 2944	CL15	
CL 36	AMU9940400 TITLE		8MUG93910510	03	8MUG93910510	DECRAESE CTR BY 1	131054 I 1 131549 /5UI 2944	131054 I 1 131549 /5UI 2944	131054 I 1 131549 /5UI 2944	CL15	
CL 37	AMU9940400 TITLE		8MUG93910510	03	8MUG93910510	DECRAESE CTR BY 1	131054 I 1 131549 /5UI 2944	131054 I 1 131549 /5UI 2944	131054 I 1 131549 /5UI 2944	CL15	
CL 38	AMU9940460 SGN	00	8MUG93910510	03	8MUG93910510	DECRAESE CTR BY 1	131054 I 1 131549 /5UI 2944	131054 I 1 131549 /5UI 2944	131054 I 1 131549 /5UI 2944	CL15	
CL 39	AMU9940460 RAD	03	8MUG93910514	2	000000	SET SW 2	131054 I 1 131549 /5UI 2944	131054 I 1 131549 /5UI 2944	131054 I 1 131549 /5UI 2944	AO43	
CL 40	AMU9940460 RAD	03	8MUG93910514	2	000000	SET SW 2	131054 I 1 131549 /5UI 2944	131054 I 1 131549 /5UI 2944	131054 I 1 131549 /5UI 2944	CL15	
CL 41	AMU9940460 RAD	00	8MUG93910514	2	000000	SET SW 2	131054 I 1 131549 /5UI 2944	131054 I 1 131549 /5UI 2944	131054 I 1 131549 /5UI 2944	CL15	
CL 42	AMU9940550 TZR	01	8MUG93910510	03	8MUG93910510	TEST FOR NO C BIT PICK	131104 U 1 131771 /7XA 2955	131104 U 1 131771 /7XA 2955	131104 U 1 131771 /7XA 2955	CM03	
CL 43	AMU9940550 TZR	01	8MUG93910510	03	8MUG93910510	TEST FOR NO C BIT PICK	131104 U 1 131771 /7XA 2955	131104 U 1 131771 /7XA 2955	131104 U 1 131771 /7XA 2955	CL15	

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8M999	-	COMMENTS	LOC OP SU	ADDRESS	PGLIN SER REF
CM 01		TSL	01	8M99942350	PICK ERROR		CHAR Z OR C	131109 1	1 131609 /6#1 2956	195CP06
CM 02		TSL	02	8M99940600	DECRESSE CTR BY 1	131114 P	3 122682 26HB 2958	A042		2957
CM 03	8M99940600	SUB	03	8M99910510	DECRESSE CTR BY 1	131114 P	3 122682 26HB 2958	A042		
CM 04	8M99940620	AM	01	8M99940660		131119 N	3 13114 /1CD 2959	CMT07		
CM 05	8M99940620	AM	03	8M99940660		131124 E	1 130974 #9XD 2960	CL15		
CM 06	8M99940620	AM	00	8M99940000		131129 1	130974 #9TD 2961	CL15		
CM 07	8M9994066C	SUB	02	8M99910510	DECRESSE ALL GROUP CTR BY 1	131134 P	2 122682 26HB 2962	A042		
CM 08	8M9994066C	SUB	02	8M99941700	DECRESSE ALL GROUP CTR BY 1	131134 P	2 122682 26HB 2962	A042		
CM 09	8M99940700	SGN	00	8M99940160-004	RESET SW 2	131154 T	130990 #99E 2968	CL19		2967
CM 10	8M99940700	SGN	02	8M99911000-007	TEST ASU 02 FOR COUNT OF 2	131144 4	2 122874 28PD 2965	AS14		2964
CM 11	8M99940700	SGN	00	8M99940750	TEST ASU 02 FOR COUNT OF 2	131144 4	2 122874 28PD 2965	AS14		
CM 12	8M99940700	SGN	00	8M9994014C-004	SET SW 3 TO TR	131179 T	130985 #98E 2974	CL18		
CM 13	8M99940750	SGN	00	8M99940750	SET SW 3 TO TR	131179 T	130985 #98E 2974	CL18		
CM 14	ADM	00	8M99940160-004	RESET SW 1	131159 6	130990 #99E 2969	CL19			
CM 15	ADM	00	8M99940180-C04	RESET SW 1	131164 T	130995 #99E 2970	CL20			
CM 16	ADM	00	8M99940180-C04	RESET SW 1	131169 6	130995 #99E 2971	CL20			
CM 17	ADM	00	8M99940620	TR	00	8M99940620	131169 6	130995 #99E 2971	196CL20	
CM 18	8M99940700	SGN	00	8M9994014C-004	SET SW 2	131154 T	130990 #99E 2968	CL19		2967
CM 19	8M99940750	SGN	00	8M99940750	SET SW 2	131179 T	130985 #98E 2974	CL18		
CM 20	8M99940750	SGN	00	8M99940750	SET SW 3 TO TR	131179 T	130985 #98E 2974	CL18		
CM 21	8M99941050	SGN	00	8M9994014C-004	SET SW 4	131184 1	131154 /15D 2975	CM13		
CM 22	8M99941000	TZB	C	8M99941020	INTERROGATE -66 SETUP GROUPS	131189 *	7 131199 //11 2977	CM24		2976
CM 23	8M99941000	TZB	C	8M99941020	TEST FOR C BIT DROP	131189 *	7 131199 //11 2977	CM24		
CM 24	8M99941020	RCVS	C1	8M999428406001	DROP ERROR	131199 U	1 131771 /7XA 2979	CM27		
CM 25	8M99941020	RCVS	C1	8M999428406001	DROP ERROR	131199 U	1 131771 /7XA 2979	CM27		
CM 26	8M99941050	TZB	C	8M99940120-004	SET SW 4	131209 T	130980 #98E 2962	CL17		
CM 27	8M99941050	SGN	00	8M99940120-004	SET SW 4	131209 T	130980 #98E 2962	CL17		
CM 28	RAD	03	8M99910514	DECRESSE CTR BY 1	131214 H	3 122683 26HB 2983	CM24			
CM 29	AAM	01	8M99940000	INCRC C BIT CHK ADDR BY 00001	131214 H	3 122683 26HB 2983	CM24			
CM 30	AAM	01	8M99940000	INCRC C BIT CHK ADDR BY 00001	131219 *	1 130974 #9XD 2984	CM24			
CM 31	8M99941150	TZB	C	8M99941200	TEST FOR NO C BIT PICK	131229 *	7 131244 /5DD 2986	197CM35		
CM 32	8M99941150	RCVS	C1	8M999428406001	PICK ERROR	131229	1 131609 /6#1 2988	CM34		
CM 33	8M99941150	TSL	01	8M99942350	PICK ERROR	131234 U	1 131771 /7XA 2987	CM32		
CM 34	8M99941250	SGN	00	8M99940130-004	SET SW 5	131264 T	130975 #97E 3004	CL16		
CM 35	8M99941250	SUB	03	8M99910510	DECRESSE CTR BY 1	131264 P	3 122682 26HB 3000	CM39		
CM 36	8M99941250	TRZ	03	8M99941250	DECRESSE CTR BY 1	131264 P	3 122682 26HB 3000	CM39		
CM 37	8M99941250	TRZ	01	8M99940000	INCRC C BIT CHK ADDR BY 00001	131264 P	3 131264 /2FD 3002	CM39		
CM 38	AAM	01	8M99940000	INCRC C BIT CHK ADDR BY 00001	131269 H	3 122683 26HB 3005	CM39			
CM 39	8M99941250	SGN	00	8M99940000	INCRC C BIT CHK ADDR BY 00001	131269 H	3 122683 26HB 3005	CM39		
CM 40	RAD	03	8M99910514	DECRESSE CTR BY 1	131269 T	130975 #97E 3004	CL16			
CM 41	AAM	01	8M99940000	INCRC C BIT CHK ADDR BY 00001	131269 T	130974 #9XD 3006	CM43			
CM 42	AAM	01	8M99940000	INCRC C BIT CHK ADDR BY 00001	131274 *	1 130974 #9XD 3006	CL15			

INDEX	TAG	OP	NU AT	OPERAEND	PROGRAM 8M99	-	-	COMMENTS	LOC OP SU	ADDRESS	PGLIN SER REF
CN 04	8M9941370	RCVS	01	8M99428406001	8M9942200	DROP ERROR	CHAR O OR e	131299 I	I 131549 / 5UI 3011	C031	
CN 03	8M9941370	TSL	01	8M99428406001	8M9942200	DROP ERROR	CHAR O OR e	131294 U	I 131771 / TXA 3010	C010	
CN 02	8M9941350	TZB	C	8M9941370	TEST FOR C BIT DROP	131284 .	7 131294 / SID 3008	CN03	I 131304 / 30D 3009	198CN06	
CN 01	8M9941350	TR	00	8M9941400	TEST FOR C BIT DROP	131284	7 131294 / SID 3008	CN03	I 131304 / 30D 3009	198CN06	
CN 05	8M9941400	SUB	03	8M9910510	8M9910510	DECREASE ALL GROUP CTR BY 1	131304 P	3 122682 26HB 3013	A042	3012	
CN 06	8M9941400	SUB	03	8M9941500	8M9940000	ALL GROUPS CHKD IF ZERO	131324 P	2 122682 26HB 3017	AG42	CN25	
CN 07	8M9941420	AM	01	8M9940000	8M9940000	TEST ASU 02 FOR COUNT OF 2	131334 4	2 122874 28PD 3020	A514	3019	
CN 08	8M9941420	AM	01	8M9940000	8M9940000	CHK OTHER GROUPS IF EQUAL	131339 L	I 131369 / 36I 3021	CN22		
CN 09	8M9941420	AM	00	8M9940000	8M9940000	TEST ASU 02 FOR COUNT OF 2	131334 4	2 122874 28PD 3020	A514	CN14	
CN 10	8M9941500	SUB	02	8M9910510	8M9941700	DECREASE ALL GROUP CTR BY 1	131324 P	2 122682 26HB 3018	AG42	CN25	
CN 11	8M9941500	TRZ	02	8M9941700	8M9941700	ALL GROUPS CHKD IF ZERO	131329 N	I 131384 / 30D 3018	CN25		
CN 12	8M9941100	TR	00	8M9941100-007	8M9941600	TEST ASU 02 FOR COUNT OF 2	131334 4	I 131369 / 36I 3021	A514	CN14	
CN 13	8M9941100	TR	02	8M9941600	8M9941600	CHK OTHER GROUPS IF EQUAL	131339 L	I 131369 / 36I 3021	A514	CN14	
CN 14	8M9941540	SGN	00	8M9940100-004	8M9940100-004	RESET SW 5	131344 T	I 30975 #97E 3023	C116	3022	
CN 15	8M9941540	SGN	00	8M9940100-004	8M9940100-004	RESET SW 5	131344 T	I 30975 #97E 3023	C116	3022	
CN 16	8M9941540	ADM	00	8M9940100-004	8M9940100-004	RESET SW 4	131349 6	I 30975 #97E 3025	C117	3022	
CN 17	8M9941540	ADM	00	8M9940100-004	8M9940100-004	RESET SW 4	131349 6	I 30980 #98E 3025	C117	3022	
CN 18	8M9941540	ADM	00	8M9940100-004	8M9940100-004	RESET SW 4	131354 T	I 30980 #98E 3025	C117	3022	
CN 19	8M9941540	ADM	00	8M9940100-004	8M9940100-004	RESET SW 4	131354 T	I 30980 #98E 3025	C117	3022	
CN 20	8M9941540	ADM	00	8M9940100-004	8M9940100-004	RESET SW 4	131364 I	I 31364 / 310 3027	CN08	3022	
CN 21	8M9941600	SGN	00	8M9940140-004	8M9940140-004	RESET SW 3	131369 T	I 30985 #98E 3029	C118	3028	
CN 22	8M9941600	ADM	00	8M9940140-004	8M9940140-004	RESET SW 3	131369 T	I 30985 #98E 3029	C118	3028	
CN 23	8M9941600	ADM	00	8M9941540	8M9941540	SECTION 1	131374 6	I 31344 / 340 3031	CN16	3028	
CN 24	8M9941600	ADM	00	8M9941540	8M9941540	SECTION 1	131374 6	I 31344 / 340 3031	CN16	3028	
CN 25	8M9941700	NOP	00	8M9941800	8M9941800	SECTION 7 SWITCH	131384 A	I 31409 / 40I 3032	CN34	3033	
CN 26	8M9941700	TITLE									
CN 27	8M9939050	LDA	00	8M9939050	8M9939050	LOAD TEST ADDR	131389 #	I 30684 #68D 3035	CJ29	3034	
CN 28	8M9939050	LDA	00	8M9939050	8M9939050	LOAD TEST ADDR	131389 #	I 30684 #68D 3041	CJ29	3040	
CN 29	8M9939050	CMP	00	8M9939050	8M9939050	TEST FOR 79999	131409 #	I 30684 #68D 3042	AR33	3040	
CN 30	8M9939050	CMP	00	8M9939050	8M9939050	TEST FOR 79999	131409 #	I 30684 #68D 3042	AR33	3040	
CN 31	8M9941850	TR	00	8M9941850	8M9941850	SECTION 6 COMPLETE	131404 I	I 31424 / 42D 3038	CN39	3044	
CN 32	8M9941850	TR	00	8M9941850	8M9941850	SECTION 6 COMPLETE	131404 I	I 31424 / 42D 3038	CN39	3044	
CN 33	8M9941850	LDA	00	8M9941850	8M9941850	TEST FOR 79999	131414 4	I 22792 2798 3042	CJ29	3045	
CN 34	8M9941850	CMP	00	8M9941850	8M9941850	TEST FOR 79999	131414 4	I 22792 2798 3042	CJ29	3045	
CN 35	8M9941850	TR	00	8M9941850	8M9941850	SECTION 7 COMPLETE	131419 L	I 31494 / 49D 3043	C016	3045	
CN 36	8M9941850	TR	00	8M9941850	8M9941850	SECTION 7 COMPLETE	131419 L	I 31494 / 49D 3043	C016	3045	
CN 37	8M993920	TITLE									
CN 38	8M993920	CC0020	00	8M993920	8M993920	INCREASE TEST ADDR BY 0020	131424 #	I 28284 828D 3046	BX23	CJ29	
CN 39	8M993920	AM	00	8M993920	8M993920	INCREASE TEST ADDR BY 0020	131429 E	I 30684 #68D 3047	BX23	CJ29	

INP#	TAG	OP	NU AT	OPRAND	PROGRAM	8M999	-	-	COMMENTS	LOC OP SU	ADDRESS	PGMIN	SER REF
60 01	TR	00	8M99939040			131434 I		130679 #67I	3048	CJ28			
60 02	8M99941900	TA	01	8M99941930		131439 I	1	131464 /4WD	3049	C009			
60 03	WR	00	8M99939050			131444 2	2	000500 0500	3050	C009			
60 04	WR	00	8M99931560			131449 R		129114 911D	3051	BZ29			
60 05	TMC	11	8M99941922			131454 0	11	131459 /MEI	3053	C009			
60 06	TMC	11	8M99941922			131459 0	12	131464 /D6D	3054	C009			
60 07	8M99941922	TRC	12	8M99941930			131459 0	12	131464 /D6D	3054	C009		
60 08	TITLE					3055							
60 09	8M99941930	TA	06	8M99941970	PRINT TAB RESULTS IF 0916 ON	131464 I	6	131479 /UPI	3056	C012			
60 10	8M99941940	TAB	02	8M99935200	REPEAT SECT 6 IF 0912 ON	131469 I	2	129699 96RI	3057	201CD06			
60 11	TR	00	8M99935400	GO TO SECTION 7		131474 I		129784 978D	3058	C012			
60 12	8M99941970	RCV\$	01	8M999083506001	SET VAR TAB PRINT TR ADDR	131479 U	1	122551 25VA	3059	A009			
60 13	8M99941970	TSL	01	8M999083506001	GO TO TAB PRINT AREA	131484 I	1	122064 20WD	3060	A009			
60 14	TITLE					3061							
60 15	TR	00	8M99941940			131489 I		131469 /46I	3062	C010			
60 16	8M99942000	TA	01	8M99942030	GO TO SECTION 7 COMPLETE	131494 I	1	131519 /5/I	3063	C023			
60 17	SEL	00	8M99942022	SEL		131499 2	2	000500 0500	3064	C021			
60 18	WR	00	8M99942022	SECTION 7 COMPLETE		131504 R		129118 911H	3065	BZ31			
60 19	TITLE					3066							
60 20	TMC	11	8M99942022			131509 0	11	131519 /EII	3068	C021			
60 21	8M99942022	TRC	12	8M99942030		131514 0	12	131519 /EII	3068	C023			
60 22	TITLE					3069							
60 23	8M99942030	TAF	06	8M99935400	PRINT TAB RESULTS IF 0916 ON	131519 I	6	131534 /VLD	3070	C026			
60 24	8M99942040	TAB	02	8M99935400	REPEAT SECT 7 IF 0912 ON	131524 I	2	129784 978D	3071	C026			
60 25	TR	00	8M99935600	GO TO SECTION 8		131529 I		129884 988D	3072	202CE22			
60 26	8M99942070	RCV\$	01	8M999083506001		131534 U	1	122551 25VA	3073	A009			
60 27	TSL	01	8M999083506001			131539 I	1	122064 20WD	3074	A009			
60 28	TITLE					3075							
60 29	TR	00	8M99942040			131544 1		131524 /52D	3076	C024			
60 30	TITLE					3077							
60 31	CHAR 0 OR E C BIT DROP DETERMT		03	8M99911C00-007	TEST ASU 03 FOR COUNT OF 2	131549 4	3	122874 28GD	3078	AS14			
60 32	TR	00	8M99942200	CHAR 0 IF EQUAL		131549 L		131584 /58D	3079	C040			
60 33	TITLE					3077							
60 34	8M99942240	RCV\$	01	8M999109206001	PLACE E IN SB PART OF T-O	131559 U	1	122842 28UB	3081	AS04			
60 35	TMS	10	8M999109206004	E--E		131564 9	10	129209 9K-I	3082	C012			
60 36	RCVS	01	8M999109206004	PLACE E IN SB PART OF T-O		131569 U	1	122845 28UE	3083	AS04			
60 37	TMS	10	8M999317106009	PLAC E IN IS PART OF T-O		131574 9	10	129209 9K-I	3084	C012			
60 38	TR	00	8M99942520			131579 1		131674 /67D	3085	C022			
60 39	TITLE					3086							

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8MU99	-	-	COMMENTS	LOC	OP SU	ADDRESS	REF
CP 01	TMIS	10	8MU99317106008	PLACE 0 IN SB PART OF T-O	131589 9 10 129208 9K-H 3088	203CA12	131594 U 1 122845 28UE 3089	AS04	131599 9 10 129208 9K-H 3100	CP03	8MU99317106008	PLACE 0 IN IS PART OF T-O
CP 02	RCVS	01	8MU99109206004	O--O	131594 U 1 122845 28UE 3089	AS04	131599 9 10 122845 28UE 3089	AS04	131604 1 131674 / 67D 3101	CP04	8MU9942520	TEST ASU 03 FOR COUNT OF 2
CP 03	TMIS	10	8MU99109206004	O--O	131609 4 3 122874 28GD 3103	AS14	131609 4 3 122874 28GD 3103	AS14	13164 L 13164 / 64D 3104	CP08	8MU9942450	MUST BE CHAR 2 IF EQUAL
CP 04	TR	00	8MU9942350	CMP	CHAR 2 OR C C BIT PICK DETERMT	CP05	8MU9911000-007	CP06	8MU9942450	CP07	8MU9911000	TEST ASU 03 FOR COUNT OF 2
CP 05	TMIS	10	8MU99109206001	C--X	131619 U 1 122842 28UB 3112	AS04	131624 9 10 129199 9JRH 3107	CA11	131624 9 10 129199 9JRH 3108	CP11	8MU99317006004	C--C
CP 06	TMIS	10	8MU99317006009	Z--Z	131644 U 1 122842 28UB 3112	AS04	131649 9 10 129198 9JRH 3113	204CA11	131654 U 1 122845 28UE 3114	CP18	8MU99109206004	P FOR PICK INTO T-O P-----
CP 07	TMIS	09	8MU9942500	UNL	131674 7 8 122848 204H 3119	AS06	131674 7 9 122848 204H 3119	CP23	8MU9942520 UNL 08	8MU991094C-C06	D FOR DROP INTO T-O D-----	
CP 08	TMIS	09	8MU9942390	RCVS	131639 1 131664 / 66D 3110	CP19	131639 1 131664 / 66D 3110	CP21	8MU9942500 UNL 08	8MU9942540	INTO T-O P-----	
CP 09	TMIS	10	8MU99109206001	C--X	131639 1 131664 / 66D 3110	CP20	131664 7 9 122848 204H 3116	CP26	8MU9912254 UNL 00	8MU9910940	INTO T-O	
CP 10	TMIS	10	8MU99317006009	Z--Z	131639 1 131664 / 66D 3110	CP24	131664 7 9 122848 204H 3117	CP27	8MU9942540 SET 00	8MU990006	REDUCE TO --	
CP 11	RCVS	01	8MU99109206004	Z--Z	131639 1 131664 / 66D 3110	CP28	131679 B 000006 0006 3121	CP32	LDA 00 8MU9940000	LOD C BIT CHK ERROR ADDR	131704 # 130974 #97D 3129	
CP 12	TMIS	10	8MU99317006009	C--C	131639 1 131664 / 66D 3110	CP29	131679 7 122839 283I 3130	CP33	UNL 00 8MU9910900	INTO T-O	131709 7 122839 283I 3130	
CP 13	TR	00	8MU9942500	UNL	131639 1 131664 / 66D 3110	CP30	131694 B 000002 0002 3125	CP34	TA 01 8MU9942750	BYPASS T-O IF 0911 ON	131714 I 1 131739 /7T1 3131	
CP 14	TMIS	10	8MU99109206001	C--X	131639 1 131664 / 66D 3110	CP31	131714 I 1 131739 /7T1 3131	CP35	SEL 00 8MU9910900	000000 X--X X----	131724 R 122834 283D 3134	
CP 15	RCVS	01	8MU99109206001	Z--X	131639 1 131664 / 66D 3110	CP36	131719 2 000500 0500 3133	CP37	MR 00 8MU9910900	000000 X--X X----	131724 R 122834 283D 3134	
CP 16	TMIS	10	8MU99317006008	Z--Z	131639 1 131664 / 66D 3110	CP38	131719 2 000500 0500 3133	CP39	TMIS 11 8MU9942740	131729 O II 131734 /PCD 3136	131734 O II 131739 /63I 3137	
CP 17	RCVS	01	8MU99109206004	Z--Z	131639 1 131664 / 66D 3110	CP40	131729 O II 131734 /PCD 3136	CP41	TITLE 05 8MU9942750 TAE	131739 I 5 131774 /XXXD 3139	131739 I 5 131774 /XXXD 3139	
CP 18	TMIS	10	8MU99317006008	Z--Z	131639 1 131664 / 66D 3110	CP42	131739 I 5 131774 /XXXD 3139	CP43	TMIS 12 8MU9942740	131729 O II 131734 /PCD 3136	131734 O II 131739 /63I 3137	
CP 19	TMIS	10	8MU99317006008	Z--Z	131639 1 131664 / 66D 3110	CP43	131729 O II 131734 /PCD 3136	CP44	8MU9942740 TRC	131729 O II 131734 /PCD 3136	131734 O II 131739 /63I 3137	
CP 20	TR	00	8MU9942540	UNL	131639 1 131664 / 66D 3110	CP45	131739 I 5 131774 /XXXD 3139	CP46	8MU9942750	BYPASS TABULATION IF 0915 ON	131739 I 5 131774 /XXXD 3139	

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM SMU99	- - - COMMENTS	LOC OF SR	ADDRESS	REGISTERS	SEGMENT	NEF	
CA 01	RCVS	01	SMU99079406001	SET VARIABLE RETRACE TR BACK	131744 U 1 122056 20VF 3140	AN18	131749 1	1 124804 48#D 3141	AZ22			
CA 02	RCVS	01	SMU9914270	GO TO C BIT TAB	131744 U 1 122056 20VF 3140	AN18	131749 1	1 124804 48#D 3141	AZ22			
CA 03	TITLE		RCVS	01	SMU99266008001	SET MARTRAB TR BACK	131754 U 1 127641 76UA 3143	B519	131759 1	1 125669 56MI 3144	BF28	
CA 04	TITLE		RCVS	01	SMU9920170	GO TO MARTRAB	131754 U 1 127641 76UA 3143	B519	131759 1	1 125669 56MI 3144	BF28	
CA 05	TITLE		TSL	01	SMU9924206001	SET SEGTAB RETURN	131764 U 1 137531 X5TA 3146	D203	131764 U 1 137531 X5TA 3146	206DWS5		
CA 06	TITLE		TSL	01	SMU9961000	SET SEGTAB RETURN	131764 U 1 137531 X5TA 3146	D203	131764 U 1 137531 X5TA 3146	206DWS5		
CA 07	TITLE		RCVS	01	SMU99624206001	SET SEGTAB RETURN	131764 U 1 137531 X5TA 3146	D203	131764 U 1 137531 X5TA 3146	206DWS5		
CA 08	TITLE		TSL	01	SMU9942840	TR	00	SMU9942840	TR	00	SMU9943210	
CA 09	TITLE		TSL	01	SMU9940250	VARIABLE TR BACK	S-6-7	131774 1	131019 /011 3149	CL25		
CA 10	TITLE		TSL	01	SMU9940250	VARIABLE TR BACK	S-6-7	131774 1	131019 /011 3149	CL25		
CA 11	TITLE		SMU9946760	LDA	00	SMU9943100	SET CHAR 66-- SETUP INTERROG	131809 #	132289 S28I 3157	C537		
CA 12	SMU9943000	RAD	02	SMU9910514	2	SMU9946760	SET CHAR 66-- SETUP INTERROG	131809 #	132289 S28I 3157	C537		
CA 13	RAD	02	SMU9910520	4	SMU9946760	SET CHAR 66-- SETUP INTERROG	131809 #	132289 S28I 3157	A043			
CA 14	LDA	02	SMU9910520	4	SMU9946760	SET CHAR 66-- SETUP INTERROG	131809 #	132289 S28I 3157	A043			
CA 15	LDA	00	SMU9939050	LOD TEST ADDRESS	131784 H 2 122683 26HC 3151	A043	131784 H 2 122683 26HC 3151	131784 H 2 122683 26HC 3151	A043			
CA 16	SUB	00	SMU9910600	REDUCE BY 19	131789 #	C529	131789 #	130684 #68D 3153	A043			
CA 17	ULIA	00	SMU9943210	SET FIRST CHAR CHK ADDR	131789 *	C523	131789 *	131834 /83D 3155	A043			
CA 18	ULIA	00	SMU9943210	SET FIRST CHAR CHK ADDR	131814 *	C523	131814 *	131834 /83D 3158	C023			
CA 19	ULIA	00	SMU9943210	SET FIRST CHAR CHK ADDR	131814 *	C523	131814 *	131834 /83D 3158	C023			
CA 20	AAM	01	SMU9943210	SET FIRST CHAR CHK ADDR	131819 @	C023	131819 @	1 131834 /83D 3158	C023			
CA 21	RAD	02	SMU9910520	4	SMU9943200	SET	000001	131824 H 2 122685 26DE 3160	AR02	207		
CA 22	SMU9943200	SET	00	SMU9910520	4	SMU9943210	SET	000001	131824 H 2 122685 26DE 3159	AR02		
CA 23	SMU9943210	SET	00	SMU9910520	4	SMU9943210	SET	000001	131824 H 2 122685 26DE 3160	AR02		
CA 24	CMP	00	SMU9931700	TEST FOR EQUAL C	131834 8	C411	131834 8	000000 0000 3162	C411			
CA 25	TR	00	SMU9943300	TEST FOR EQUAL C	131839 4	C431	131839 4	129199 9191 3163	C431			
CA 26	LDA	00	SMU9943210	TEST FOR EQUAL C	131844 L	C431	131844 L	131864 /86I 3164	C431			
CA 27	RCVS	01	SMU99479608001	GO TO CHAR C ALL BIT CHK	131854 U	CZ22	131854 U	1 133396 T32F 3166	CZ22			
CA 28	TSL	01	SMU9946200	GO TO CHAR C ALL BIT CHK	131859 1	CU39	131859 1	1 132689 56YI 3167	CU39			
CA 29	SMU9943260	TR	00	SMU9943370	GO TO C BIT PICK T-O SETUP	131864 1	C037	131864 1	131899 /89I 3168	C037		
CA 30	TITLE		SMU9943210	LDA	00	SMU9943210	TEST FOR NO C BIT PICK	131869 *	131834 /83D 3170	C023		
CA 31	SMU9943300	LDA	00	SMU9943210	TEST FOR NO C BIT PICK	131874 *	C033	131874 *	131879 /87I 3171	C033		
CA 32	ULIA	00	SMU9943320	TEST FOR NO C BIT PICK	131879 U	C033	131879 U	1 0000 03172	C033			
CA 33	SMU9943320	RCVS	01	SMU9943370	TEST FOR NO C BIT PICK	131884	C037	131884	7 131899 /VI1 3173	C037		
CA 34	TZB	C	SMU9943370	TEST FOR NO C BIT PICK	131889 U	C037	131889 U	1 131771 /TXA 3174	208CQ10			
CA 35	RCVS	01	SMU99428406001	GO TO C BIT PICK T-O SETUP	131889 U	C037	131889 U	1 131771 /TXA 3174	208CQ10			
CA 36	TSL	01	SMU9942390	GO TO C BIT PICK T-O SETUP	131894 1	C043	131894 1	1 131619 /6/I 3175	C043			
CA 37	SMU9910510	SUB	02	SMU9943370	TEST ASU 03 IF ASU 02 0	131904 N	C043	131904 N	2 131934 /9LD 3177	C043		
CA 38	TRZ	02	SMU9943450	GO TO CHK ASU 03 IF ASU 02 0	131909 4	C043	131909 4	2 122874 28PD 3178	C043			
CA 39	CMP	02	SMU99116000-007	TEST ASU 02 FOR COUNT OF 2	131914 L	C043	131914 L	1 131924 /92D 3179	C043			
CA 40	TR	00	SMU9943500	GO TO C BIT PICK T-O SETUP	131919 1	C043	131919 1	1 131949 /94I 3180	C043			
CA 41	TR	00	SMU9943500	GO TO C BIT PICK T-O SETUP	131924 1	C023	131924 1	1 131829 /82I 3183	C023			
CA 42	SMU9943420	AAM	01	SMU9943210	TR	00	SMU9943210	TR	00	SMU9943210	TR	00

INDEX TAG OP NU\_AT OPERAND PROGRAM 8MU99 COMMENTS LOC\_OP\_SU ADDRESS PGLIN SER REF

CR\_01 8MU9943450 SUB 03 8MU9910510 ALL GROUPS CHKD IF ASU 03 ZERO 131934 P 3 122682 26HB 3184 A042

CR\_02 8MU9943450 TRZ 03 8MU9941700 131939 N 3 131384 / 3AH0 3185 CN25

CR\_03 TR 00 8MU9944700 GO TO CHK ---66 SETUP GROUPS 131944 I 132264 S26D 3186 CS32

CR\_04 8MU9943500 LDA 00 8MU9943210 PICK UP PREVIOUS LOADER 131949 # 131834 / 83D 3187 209CA23

CR\_05 AAM 00 8MU9943560 SET NEXT LOADER 131954 \* 131969 / 96I 3188 CR09

CR\_06 AAM 01 8MU9943560 INC BY 00001 131959 @ 1 131969 / 9WI 3189 CR09

CR\_07 TITLE 00 8MU9943170-001 TEST FOR EQUAL 0 131964 B 000001 0001 3201 3200

CR\_08 TITLE 00 8MU9943560 SET 000001 0001 3201 3200

CR\_09 8MU9943560 LOD 00 8MU9943560 000000 0000 3202 131969 8 000000 0001 3201

CR\_10 CMP 00 8MU9943650 000000 0001 3201 131974 4 129208 920H 3203 CA12

CR\_11 TRE 00 8MU9943650 000000 0001 3201 131979 L 132004 500D 3204 CR17

CR\_12 LDA 00 8MU9943560 000000 0001 3201 131984 # 131969 / 96I 3205 CR09

CR\_13 RCVS 01 8MU99479606001 000000 0001 3201 131989 U 1 133396 T3ZF 3206 CZ22

CR\_14 TSL 01 8MU9946600 000000 0001 3201 131994 I 1 132854 S8VD 3207 CV38

CR\_15 TR 00 8MU9943800 000000 0001 3201 131999 I 132039 S03I 3208 CR24

CR\_16 TITLE 00 8MU9943700 RCVS 01 8MU99428406001 000000 0001 3201 132029 3209

CR\_17 8MU9943650 LDA 00 8MU9943650 000000 0001 3201 132004 # 131969 / 96I 3201 CR09

CR\_18 8MU9943670 LDA 00 8MU9943670 000000 0001 3211 132009 \* 132014 501D 3211 Z10CR19

CR\_19 8MU9943670 RCVS 01 8MU9943670 000000 0001 3211 132014 U 1 000000 00#0 3212 CR19

CR\_20 TR 00 8MU9943700 TBL 000000 0001 3213 132019 \* 7 132029 5#BI 3213 CR22

CR\_21 TSL 01 8MU9943800 000000 0001 3214 132024 I 132039 S03I 3214 CR24

CR\_22 8MU9943800 LDA 00 8MU9943560 000000 0001 3215 132034 I 1 131584 / 5YD 3216 CO40

CR\_23 TSL 01 8MU99428406001 000000 0001 3215 132029 U 1 131771 / TXA 3215 CO10

CR\_24 8MU9943800 LDA 00 8MU9943560 000000 0001 3215 132039 # 131969 / 96I 3217 CR09

CR\_25 8MU9943860 LDA 00 8MU9943860 000000 0001 3218 132044 \* 132059 S05I 3218 CR29

CR\_26 AAM 01 8MU9943860 000000 0001 3219 132049 @ 1 132059 S0VI 3219 CR29

CR\_27 TITLE 00 8MU9943860 SET 000001 0001 3221 132054 B 000000 0001 3221 3220

CR\_28 8MU9943860 LOD 00 8MU9943860 000000 0001 3222 132054 B 000000 0001 3222 CR28

CR\_29 8MU9943860 LOD 00 8MU9943860 000000 0001 3222 132059 8 000000 0000 3222 CR29

CR\_30 CMP 00 8MU9931710 000000 0001 3223 132064 4 129209 920I 3223 CA12

CR\_31 TRE 00 8MU9944000 000000 0001 3224 132069 L 132094 509D 3224 Z11CR37

CR\_32 LDA 00 8MU9944000 000000 0001 3225 132074 # 132094 509D 3225 CR29

CR\_33 RCVS 01 8MU99479606001 000000 0001 3226 132079 U 1 133396 T3ZF 3226 CZ22

CR\_34 TSL 01 8MU9942240 000000 0001 3227 132084 I 1 133019 T0/I 3227 CX02

CR\_35 TR 00 8MU9944200 000000 0001 3228 132089 I 132129 S12I 3228 CS01

CR\_36 TITLE 00 8MU9943860 LDA 00 8MU9943860 000000 0001 3229 3229

CR\_37 8MU9944000 LDA 00 8MU9944000 000000 0001 3230 132094 # 132104 510D 3231 CR29

CR\_38 8MU9944020 RCVS 01 8MU9944020 000000 0001 3231 132099 \* 132104 510D 3231 CR39

CR\_39 8MU9944020 ULA 00 8MU9944020 000000 0001 3232 132104 U 1 000000 00#0 3232 CR42

CR\_40 TR 00 8MU9944200 000000 0001 3233 132109 \* 7 132119 S/AI 3234 CR42

CR\_41 TSL 01 8MU9942240 000000 0001 3235 132119 U 1 131771 / TXA 3235 CO10

CR\_42 8MU9944050 RCVS 01 8MU9942240 000000 0001 3236 132124 I 1 131559 / 5VI 3236 CO34

CR\_43 8MU9944050 TSL 01 8MU9942240 000000 0001 3236 132124 I 1 131559 / 5VI 3236 CO34



INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	8MU99	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
CT 01	UL/A	00	8MU9944870		132329 *	132334	333D	3282									
CT 02	8MU9944870	R/CVS	01	000000	132334 U	1	000000	00#0	3283	TEST FOR C BIT DROP	TR	00	8MU9944900				CT02
CT 03	8MU9944870	TZB	C	8MU9944900	132339 *	7	132349	STD1	3284	132344 I	132359	335I	3285				CT03
CT 04	TR	00	8MU9944900		132344 I	7	132349	STD1	3284	132344 I	132359	335I	3285				CT04
CT 05	8MU9944900	R/CVS	01	8MU99428406001	132349 U	1	131771	/TAXA	3286	132349 U	131771	/TAXA	3286				CT05
CT 06	8MU9944900	TZL	01	8MU9942240	132354 I	1	131559	/5VI	3287	132354 I	131559	/5VI	3287				CT06
CT 07	8MU9944950	SUB	02	8MU9910510	132359 P	2	122682	2608	3288	132359 P	2	122682	2608	3288	A042		
CT 08	8MU9944950	TRZ	02	8MU9945050	132364 N	2	132394	3ARD	3289	132364 N	2	132394	3ARD	3289	A042		
CT 09	8MU9911000-C07	CMR	02	8MU9945000	132364	4	2	122874	28RD	3300	132364	4	2	122874	28RD	3300	Z16AS14
CT 10	8MU9945000	TR	00	8MU9945000	132374 L	132384	338D	3301		132374 L	132384	338D	3301				CT10
CT 11	8MU9945000	TR	00	8MU9945200	132379 I	132409	540I	3302		132379 I	132409	540I	3302				CT11
CT 12	8MU9945000	TR	01	8MU9944760	132384 E	1	132289	52YI	3304	132384 E	1	132289	52YI	3304	C337		
CT 13	8MU9945000	TR	01	8MU9944760	132389 I	132284	528D	3305		132389 I	132284	528D	3305				CT13
CT 14	8MU9945000	AM	01	8MU9944750	132393	0	132289	52YI	3304	132393	0	132289	52YI	3304	C337		
CT 15	8MU9945050	SUS	03	8MU9910510	132394 P	3	122682	26HB	3306	132394 P	3	122682	26HB	3306	A042		
CT 16	8MU9945050	TRZ	03	8MU9941700	132399 N	3	131384	/3HD	3307	132399 N	3	131384	/3HD	3307	CN25		
CT 17	8MU9945050	TR	00	8MU9943100	132404 I	131809	/80I	3308		132404 I	131809	/80I	3308				CT17
CT 18	8MU9945200	LDA	00	8MU9944760	132409 #	132289	528I	3309		132409 #	132289	528I	3309				CT18
CT 19	8MU9945200	UL/A	00	8MU9945200	132414 *	132429	542I	3310		132414 *	132429	542I	3310				CT19
CT 20	8MU9945200	AAM	01	8MU9945200	132419 E	1	132429	542I	3311	132419 E	1	132429	542I	3311	C337		
CT 21	8MU9945200	TITLE			132424 B	000001	0001	3313		132424 B	000000	0000	3314	217			CT21
CT 22	8MU9945200	SET	00	000001	132424 B	000001	0001	3313		132424 B	000000	0000	3314				CT22
CT 23	8MU9945260	LDD	00	000000	132429 8	000000	0001	3314		132429 8	000000	0000	3314				CT23
CT 24	8MU9945260	CMR	00	000000	132434 4	129198	519I	3315		132434 4	129198	519I	3315				CT24
CT 25	8MU9945350	TR	00	8MU9945350	132434 4	129198	519I	3315		132434 4	129198	519I	3315				CT25
CT 26	8MU9945260	LDA	00	8MU9945260	132439 L	132646	546D	3316		132439 L	132646	546D	3316				CT26
CT 27	8MU9947960	R/CVS	01	8MU9947960	132444 *	132429	542I	3317		132444 *	132429	542I	3317				CT27
CT 28	8MU9947960	TSL	01	8MU9947960	132449 U	1	133396	532F	3318	132449 U	1	133396	532F	3318	C222		
CT 29	8MU994500	TR	00	8MU994500	132459 I	132494	549D	3320		132459 I	132494	549D	3320				CT29
CT 30	8MU9945350	LDA	00	8MU9945260	132464 *	132429	542I	3322		132464 *	132429	542I	3322				CT30
CT 31	8MU9945350	UL/A	00	8MU9945370	132464 *	132429	542I	3322		132464 *	132429	542I	3322				CT31
CT 32	8MU9945370	R/CVS	01	8MU9945370	132469 *	132474	547D	3323		132469 *	132474	547D	3323				CT32
CT 33	8MU9945370	000000	01	000000	132474 U	1	000000	00#0	3324	132474 U	1	000000	00#0	3324	C333		
CT 34	8MU9945500	TZB	C	8MU9945500	132474 *	7	132494	SUID	3325	132474 *	7	132494	SUID	3325	C37		
CT 35	8MU9945500	R/CVS	01	8MU99428406001	132474 U	1	131771	/7XA	3326	132474 U	1	131771	/7XA	3326	CQ10		
CT 36	8MU9945500	TSL	01	8MU9942450	132484 U	1	131644	/6UD	3327	132484 U	1	131644	/6UD	3327	218CP15		
CT 37	8MU9945500	LDA	00	8MU9945260	132484 *	132429	542I	3328		132484 *	132429	542I	3328				CT37
CT 38	8MU9945500	UL/A	00	8MU9945500	132494 *	132429	542I	3329		132494 *	132429	542I	3329				CT38
CT 39	8MU9945500	AAM	01	8MU9945500	132504 E	1	132514	551D	3330	132504 E	1	132514	551D	3330	CT42		
CT 40	8MU9945500	TITLE			132504 *	132514	551D	3330		132504 *	132514	551D	3330				CT40
CT 41	8MU9945500	SET	00	000001	132514 8	000001	0001	3332		132514 8	000000	0000	3333				CT41
CT 42	8MU9945500	LDD	00	000000	132514 8	000000	0000	3333		132514 8	000000	0000	3333				CT42
CT 43	8MU9945500	CMR	00	8MU9931700	132519 4	129199	519I	3334		132519 4	129199	519I	3334				CT43

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INDEX	TAG	OP	NU AT	OPRAND	PROGRAM 8M999	- -	COMMENTS	LOC OP SU	ADDRESS	PATTERN	SER REF	
CU 01	TR	00	8M99945650	LDA	00	8M99945650	132549 #	132514 5510 3341	CUT07	3340	219	
CU 02	LDA	00	8M99945650	132549 L	132549 5541 3335	CUT07	132529 #	132514 5510 3336	CUT42	132529	CUT09	
CU 03	RCS	00	8M99945650	132549 L	132549 5541 3335	CUT07	132534 #	132514 5510 3336	CUT42	132534 U	CUT22	
CU 04	TSL	01	8M99946200	132539 1	132539 5610 3337	CUT42	132539 1	132689 5610 3338	CUT22	132539	CUT09	
CU 05	TR	00	8M99945800	132544 1	132579 5571 3339	CUT13	132544 1	132579 5571 3339	CUT13	132544	CUT09	
CU 06	TITLE											
CU 07	8M99945650	LDA	00	8M99945650	132549 #	132514 5510 3341	CUT42	132549 #	132514 5510 3341	CUT42	132549	CUT09
CU 08	8M99945670	LDA	00	8M99945670	132554 *	132559 5551 3342	CUT09	132554 *	132559 5551 3342	CUT42	132554	CUT09
CU 09	8M99945670	RCS	01	8M99945600	000000	00000 00# 03343	CUT09	132554 U	132559 5551 3342	CUT42	132554	CUT09
CU 10	TZB	C	8M99945800	132564 *	7 132579 5610 3344	CUT13	132564 *	7 132579 5610 3344	CUT13	132564	CUT09	
CU 11	RCS	01	8M999428406001	132569 U	1 131771 57XA 3345	CUT13	132569 U	1 131771 57XA 3345	CUT13	132569	CUT09	
CU 12	TSL	01	8M99942390	132574 1	1 131619 /6/I 3346	CUT09	132574 1	1 131619 /6/I 3346	CUT10	132574	CUT09	
CU 13	8M99945800	LDA	00	8M9994560	PICK UP PREVIOUS LODER	CUT42	132579 #	132514 5510 3347	CUT42	132579	CUT09	
CU 14	ULA	00	8M99945860	SET NEXT LOADER	CUT42	132584 *	132599 5591 3348	CUT18	132584 *	132599 5591 3348	CUT18	
CU 15	AAM	01	8M99945860	INCR BY 00001	CUT42	132589 0	1 132599 5591 3349	CUT18	132589 0	1 132599 5591 3349	CUT18	
CU 16	TITLE											
CU 17	SET	00	000001	000001	00000 0001 3351	CUT42	132594 B	000001 0001 3351	CUT42	132594 B	CUT09	
CU 18	8M99945860	LDD	00	000000	00000 0000 3352	CUT42	132599 8	000000 0000 3352	CUT42	132599 8	CUT09	
CU 19	CMP	00	8M99945930	TEST FOR EQUAL 0	CUT42	132604 4	129208 920H 3353	CUT42	132604 4	129208 920H 3353	CUT42	
CU 20	TR	00	8M99945930	TEST FOR EQUAL 0	CUT42	132609 L	132634 5630 3354	CUT42	132609 L	132634 5630 3354	CUT42	
CU 21	LDA	00	8M99945860	TEST FOR EQUAL 0	CUT42	132614 #	132599 5591 3355	CUT42	132614 #	132599 5591 3355	CUT42	
CU 22	RCS	01	8M999479606001	GO TO CHAR O ALL BIT CHK	CUT42	132619 U	1 133396 T3ZF 3356	CUT42	132619 U	1 133396 T3ZF 3356	CUT42	
CU 23	TSL	01	8M99946600	GO TO CHAR O ALL BIT CHK	CUT42	132624 1	1 132854 580D 3357	CUT42	132624 1	1 132854 580D 3357	CUT42	
CU 24	TR	00	8M99946000	TEST FOR EQUAL 0	CUT42	132629 1	132669 5661 3358	CUT42	132629 1	132669 5661 3358	CUT42	
CU 25	TITLE											
CU 26	8M99945930	LDA	00	8M99945860	TEST FOR EQUAL 0	CUT42	132634 *	132644 5640 3361	CUT42	132634 *	132644 5640 3361	CUT42
CU 27	TR	00	8M99945950	TEST FOR EQUAL 0	CUT42	132644 U	1 000000 00# 03362	CUT42	132644 U	1 000000 00# 03362	CUT42	
CU 28	8M99945950	RCS	01	8M99945980	TEST FOR C BIT DROP	CUT42	132649 *	7 132659 56E1 3363	CUT42	132649 *	7 132659 56E1 3363	CUT42
CU 29	TZB	C	8M99945980	TEST FOR C BIT DROP	CUT42	132654 1	132669 5661 3364	CUT42	132654 1	132669 5661 3364	CUT42	
CU 30	TR	00	8M99946000	TEST FOR C BIT DROP	CUT42	132669 U	1 131771 57XA 3365	CUT42	132669 U	1 131771 57XA 3365	CUT42	
CU 31	TSL	01	8M99942300	TEST FOR C BIT DROP	CUT42	132664 1	1 131584 /5YD 3366	CUT42	132664 1	1 131584 /5YD 3366	CUT42	
CU 32	8M99945980	RCS	01	8M999428406001	TEST FOR C BIT DROP	CUT42	132659 U	1 131771 57XA 3365	CUT42	132659 U	1 131771 57XA 3365	CUT42
CU 33	TITLE											
CU 34	8M99946000	LDA	00	8M99945860	CHAR C ALL BIT CHECK	CUT42	132669 #	132599 5591 3365	CUT42	132669 #	132599 5591 3365	CUT42
CU 35	TR	00	8M99944760	CHAR C ALL BIT CHECK	CUT42	132674 *	132289 5281 3369	CUT42	132674 *	132289 5281 3369	CUT42	
CU 36	AAM	01	8M99944760	CHAR C ALL BIT CHECK	CUT42	132679 0	1 132284 528D 3371	CUT42	132679 0	1 132284 528D 3371	CUT42	
CU 37	TR	00	8M99944750	CHAR C ALL BIT CHECK	CUT42	132684 1	132284 528D 3371	CUT42	132684 1	132284 528D 3371	CUT42	
CU 38	TITLE											
CU 39	8M99946200	RCVS	01	8M999109206001	PLACE C IN SB PART OF T-O	CUT42	132689 U	1 122642 28UB 3373	CUT42	132689 U	1 122642 28UB 3373	CUT42
CU 40	TMTS	10	8M999317008009	PLACE C IN SB PART OF T-O	CUT42	132694 9	10 129199 9JRI 3374	CUT42	132694 9	10 129199 9JRI 3374	CUT42	
CU 41	TRL	00	8M99910900	INTO T-O	CUT42	132699 7	122839 5281 3375	CUT42	132699 7	122839 5281 3375	CUT42	
CU 42	ULA	00	8M99946300	SET BIT CHK ADDR	CUT42	132704 *	132739 5731 3376	CUT42	132704 *	132739 5731 3376	CUT42	
CU 43	ULA	00	8M99946500	SET BC A ERR CONTS DDR	CUT42	132709 *	132839 5831 3377	CUT42	132709 *	132839 5831 3377	CUT42	

INDEX TAG OP NU AT OPERAND PROGRAM GMU99 COMMENTS LOC OF SU ADDRESS PGMLN SER REF

CV 01	SET 00	000007	132714 B	000007 0007 3379	132719 8	123482 3488 3380	AUD04	UNL 00	8MU9912254	RESET BIT BREAKDOWN	132724 7	122854 2850 3381	AS06		
CV 02	L0D 00	00	8MU9912254	-----	132719 8	123482 3488 3380	AUD04	UNL 00	8MU9910940	BIT CHECK ADDRESS	132734 7	122844 2840 3383	AS04		
CV 03	SET 00	00	8MU9910940	-----	132729 8	000002 0002 3382	222	UNL 00	8MU9910920-001	TEST FOR I BIT DROP	132739 U	1 000000 00# 3384	CV09		
CV 04	SET 00	00	000002	-----	132729 8	000002 0002 3382	222	TR 00	8MU9946330	TEST FOR I BIT DROP	132744 *	1 132754 570D 3385	CV09		
CV 05	SET 00	00	000000	-----	132749 1	132759 5751 3386	CV11	TR 00	8MU9946340	TEST FOR NO 1 BIT PICK	132749 1	132759 5751 3386	CV11		
CV 06	8MU9946300	RCVS 01	-----	-----	132754 7	8 122854 2050 3387	AS06	UNL 08	8MU9910940	-----D	132754 7	8 122854 2050 3387	AS06		
CV 07	8MU9946300	TZB 01	-----	-----	132759 1	132774 5770 3400	CV13	TR 00	8MU9946360	TEST FOR 2 BIT DROP	132759 *	2 132769 5701 3389	CV13		
CV 08	TR 00	-----	-----	-----	132764 1	132774 5770 3400	CV13	TR 00	8MU9946370	TEST FOR 2 BIT DROP	132759 *	2 132769 5701 3389	CV13		
CV 09	8MU9946330	UNL 08	-----	-----	132769 7	8 122853 205C 3401	AS06	UNL 08	8MU9910940-001	-----D-	132769 7	8 122853 205C 3401	AS06		
CV 10	8MU9946340	TZB 02	-----	-----	132764 1	132774 5770 3400	CV13	UNL 08	8MU9946360	TEST FOR 2 BIT DROP	132759 *	2 132769 5701 3389	CV13		
CV 11	8MU9946340	TZB 02	-----	-----	132769 7	8 122853 205C 3401	AS06	UNL 08	8MU9910940-001	-----D-	132769 7	8 122853 205C 3401	AS06		
CV 12	8MU9946340	TZB 02	-----	-----	132764 1	132774 5770 3400	CV13	UNL 08	8MU9910940-001	-----D-	132769 7	8 122853 205C 3401	AS06		
CV 13	8MU9946360	UNL 08	-----	-----	132769 7	8 122853 205C 3401	AS06	UNL 08	8MU9910940-001	-----D-	132769 7	8 122853 205C 3401	AS06		
CV 14	8MU9946370	TZB 04	-----	-----	132774 *	3 132784 57HD 3403	CV18	UNL 09	8MU9910940-002	-----P--	132774 *	3 132784 57HD 3403	CV18		
CV 15	8MU9946370	TZB 04	-----	-----	132779 7	9 122852 20VB 3404	CV18	UNL 09	8MU9910940-002	-----P--	132779 7	9 122852 20VB 3404	CV18		
CV 16	8MU9946370	UNL 09	-----	-----	132779 7	9 122852 20VB 3404	CV18	UNL 09	8MU9910940-002	-----P--	132779 7	9 122852 20VB 3404	CV18		
CV 17	8MU9946390	TZB 08	-----	-----	132784 *	4 132794 SX9D 3406	CV21	UNL 09	8MU9910940-003	-----P--	132784 *	4 132794 SX9D 3406	CV21		
CV 18	8MU9946390	TZB 08	-----	-----	132789 7	9 122851 20VA 3407	223AS06	UNL 09	8MU9910940-003	TEST FOR NO 8 BIT PICK	132789 7	9 122851 20VA 3407	223AS06		
CV 19	8MU9946390	TZB 08	-----	-----	132799 1	132809 5801 3410	CV23	UNL 09	8MU9946440	TEST FOR A BIT DROP	132799 *	5 132804 SYAD 3409	CV23		
CV 20	8MU9946430	TZB 08	-----	-----	132804 7	8 122850 2056 3411	AS06	UNL 09	8MU9910940-004	-----D----	132804 7	8 122850 2056 3411	AS06		
CV 21	8MU9946430	TZB 08	-----	-----	132809 *	5 132804 SYAD 3410	CV23	UNL 09	8MU9910940-004	-----D----	132804 7	8 122850 2056 3411	AS06		
CV 22	8MU9946430	TZB 08	-----	-----	132799 1	132809 5801 3410	CV23	UNL 09	8MU9910940-004	-----D----	132799 1	132809 5801 3410	CV23		
CV 23	8MU9946430	TZB 08	-----	-----	132808 3408	132804 7	8 122850 2056 3411	AS06	UNL 09	8MU9910940-004	-----D----	132808 3408	132804 7	8 122850 2056 3411	AS06
CV 24	8MU9946440	TZB 08	-----	-----	132809 *	6 132819 SYJ1 3413	CV27	UNL 09	8MU9946460	TEST FOR B BIT DROP	132809 *	6 132819 SYJ1 3413	CV27		
CV 25	8MU9946440	TZB 08	-----	-----	132814 1	132824 5820 3414	CV29	UNL 09	8MU9946470	TEST FOR B BIT DROP	132814 1	132824 5820 3414	CV29		
CV 26	8MU9946440	TR 00	-----	-----	132820 3412	132819 7	8 122849 204I 3415	AS06	UNL 09	8MU9910940-005	-----D----	132820 3412	132819 7	8 122849 204I 3415	AS06
CV 27	8MU9946460	UNL 09	-----	-----	132824 *	7 132834 SYCD 3417	CV33	UNL 09	8MU9910940-006	TEST FOR NO C BIT PICK	132824 *	7 132834 SYCD 3417	CV33		
CV 28	8MU9946460	UNL 09	-----	-----	132829 3416	132829 7	9 122848 20UH 3418	AS06	UNL 09	8MU9910940-006	TEST FOR NO C BIT PICK	132829 3416	132829 7	9 122848 20UH 3418	AS06
CV 29	8MU9946460	TZB 09	-----	-----	132824 *	7 132834 SYCD 3417	CV33	UNL 09	8MU9910940-006	TEST FOR NO C BIT PICK	132824 *	7 132834 SYCD 3417	CV33		
CV 30	8MU9946470	TZB 09	-----	-----	132829 7	9 122848 20UH 3418	AS06	UNL 09	8MU9910940-006	TEST FOR NO C BIT PICK	132829 7	9 122848 20UH 3418	AS06		
CV 31	-----	-----	-----	-----	3419	3419	-----	-----	-----	-----	3419	3419	-----	3419	
CV 32	8MU9946490	SET 00	000001	-----	132834 B	000001 0001 3421	CV35	UNL 00	000000	BCA ERROR CONTENTS	132834 B	000001 0001 3421	CV35		
CV 33	8MU9946490	SET 00	000001	-----	132839 8	000000 0000 3422	CV35	UNL 00	000000	BCA ERROR CONTENTS	132839 8	000000 0000 3422	CV35		
CV 34	8MU9946500	SET 00	000000	-----	132840 3420	3420	-----	-----	-----	-----	3420	3420	-----	3420	
CV 35	8MU9946500	TR 00	-----	-----	132844 7	122845 284E 3423	AS04	UNL 00	8MU9910920	C--X	132844 7	122845 284E 3423	AS04		
CV 36	8MU9946500	TR 00	-----	-----	132849 1	133339 1331 3424	AS04	UNL 00	8MU9910920	EC-X	132849 1	133339 1331 3424	AS04		
CV 37	8MU9946600	CHAR 0 ALL	BIT CHECK	-----	132854 U	1 122842 28UB 3426	AS04	UNL 00	8MU9910920	INTO T-O	132854 U	1 122842 28UB 3426	AS04		
CV 38	8MU9946600	CHAR 0 ALL	BIT CHECK	-----	132859 9	10 129208 9K-H 3427	CA12	UNL 00	8MU9910920	INTO T-O	132859 9	10 129208 9K-H 3427	CA12		
CV 39	8MU9946600	CHAR 0 ALL	BIT CHECK	-----	132864 7	122845 284E 3423	AS04	UNL 00	8MU9910920	INTO T-O	132864 7	122845 284E 3423	AS04		
CV 40	8MU9946600	CHAR 0 ALL	BIT CHECK	-----	132864 7	122845 284E 3423	AS04	UNL 00	8MU9910920	INTO T-O	132864 7	122845 284E 3423	AS04		
CV 41	8MU9946600	CHAR 0 ALL	BIT CHECK	-----	132864 7	122845 284E 3423	AS04	UNL 00	8MU9910920	INTO T-O	132864 7	122845 284E 3423	AS04		

INDEX	TAG	OP	NU AT	OPRANND	PROGRAM	MNU99	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF			
CW 01	UL/A	00	BMU9946700	SET BIT CHK ADDR	132869 *	132904	S90D	3429	CW09	132874 *	133004	T00D	3430	CW37					
CW 02	LD0	00	BMU9946700	SET BIT CHK ADDR	132869 *	132904	S90D	3429	CW09	132874 *	133004	T00D	3430	CW37					
CW 03	SET	00	000007	00007	3432	132879	B	000007	AU04	132889	7	122854	2850	3434	AU04				
CW 04	SET	00	000007	00007	3432	132879	B	000007	AU04	132889	7	122854	2850	3434	AU04				
CW 05	LD0	00	BMU9912254	-----	132884	8	123482	3488	3433	132889	7	122854	2850	3434	AU04				
CW 06	UNL	00	BMU9910940	RESET BIT BREAKDOWN	132884	8	123482	3488	3433	132889	7	122854	2850	3434	AU04				
CW 07	SET	00	000002	-----	132894	7	122844	2840	3435	132899	7	122844	2840	3436	AU04				
CW 08	UNL	00	BMU9910940	-----	132894	7	122844	2840	3435	132899	7	122844	2840	3436	AU04				
CW 09	BMU9946700	RCVS	01	000000	-----	132904	U	1	000000	00#0	1	132919	59/1	3437	CW10				
CW 10	BMU9946730	TR	01	BMU9946730	BIT CHECK ADDRESS	132909 *	I	1	000000	00#0	1	132919	59/1	3438	CW11				
CW 11	BMU9946730	UNL	09	BMU9910940	-----P	132914	7	9	122854	2850	3439	132914	7	9	122854	2850	AU06		
CW 12	BMU9946730	TR	02	BMU9946750	-----	132919 *	2	132929	S9KI	3441	132924	I	132934	S93D	3442	CW15			
CW 13	BMU9946730	TR	00	BMU9946760	-----	132919 *	2	132929	S9KI	3441	132924	I	132934	S93D	3442	CW15			
CW 14	BMU9946730	TR	00	BMU9946750	-----	132929	7	8	122853	2850	3443	132929	7	8	122853	2850	AU06		
CW 15	BMU9946750	UNL	08	BMU9910940	----D	132929	7	8	122853	2850	3443	132929	7	8	122853	2850	AU06		
CW 16	BMU9946760	TR	4	BMU9946780	-----	132934 *	3	132944	S9DD	3445	132939	I	132949	S94I	3446	CW21			
CW 17	BMU9946760	TR	4	BMU9946780	-----	132934 *	3	132944	S9DD	3445	132939	I	132949	S94I	3446	CW21			
CW 18	BMU9946780	TR	00	BMU9946780	-----	132948	3446	3446	132948	3446	132948	3446	3446	132948	3446	CW24			
CW 19	BMU9946780	UNL	08	BMU9910940	----D	132944	7	8	122852	2850	3447	132944	7	8	122852	2850	AU06		
CW 20	BMU9946790	TR	8	BMU9946810	-----P	132948	3448	3448	132948	3448	132948	3448	3448	132948	3448	CW24			
CW 21	BMU9946790	TR	8	BMU9910940	----P	132949 *	4	132959	S25I	3449	132954	7	9	122851	28VA	AU06			
CW 22	BMU9946790	UNL	09	BMU9910940	----P	132954	7	9	122851	28VA	3450	132954	7	9	122850	28VA	AU06		
CW 23	BMU9946810	TR	8	BMU9946830	-----	132959 *	5	132969	S25I	3452	132959	*	5	132969	S25I	3452	CW27		
CW 24	BMU9946810	TR	8	BMU9946830	-----	132959	*	5	132969	S25I	3452	132959	*	5	132969	S25I	3452	CW27	
CW 25	BMU9946830	UNL	09	BMU9910940	----P	132964	7	9	122850	28VA	3453	132964	7	9	122850	28VA	AU06		
CW 26	BMU9946830	TR	8	BMU9946850	-----	132964	3454	3454	132964	3454	132964	3454	3454	132964	3454	226			
CW 27	BMU9946830	TR	8	BMU9946850	-----	132965	3455	3455	132965	3455	132965	3455	3455	132965	3455	CW29			
CW 28	BMU9946850	TR	00	BMU9946860	-----	132965	3456	3456	132965	3456	132965	3456	3456	132965	3456	CW29			
CW 29	BMU9946850	UNL	08	BMU9910940	----D	132979	7	8	122849	204I	3457	132979	7	8	122849	204I	AU06		
CW 30	BMU9946860	TR	8	BMU9946880	-----	132984	*	7	132994	S25D	3459	132984	*	7	132994	S25D	CW33		
CW 31	BMU9946860	TR	8	BMU9946880	-----	132984	*	7	132994	S25D	3459	132984	*	7	132994	S25D	CW33		
CW 32	BMU9946880	TR	00	BMU9946890	-----	132984	*	7	132994	S25D	3460	132984	*	7	132994	S25D	CW36		
CW 33	BMU9946880	UNL	08	BMU9910940	----D	132994	7	8	122848	204H	3461	132994	7	8	122848	204H	AU06		
CW 34	BMU9946890	TR	8	BMU9946900	-----	132994	*	7	132994	S25D	3462	132994	*	7	132994	S25D	CW36		
CW 35	BMU9946900	TR	8	BMU9946900	-----	132994	*	7	132994	S25D	3462	132994	*	7	132994	S25D	CW36		
CW 36	BMU9946900	SET	00	000001	-----	132994	B	000001	0001	3464	132994	*	8	000001	0001	CW37			
CW 37	BMU9946900	LD0	00	000000	-----	132994	*	8	000000	0000	3465	132994	*	8	000000	0000	CW37		
CW 38	BMU9946900	UNL	00	8MU9910920	INTO T-O	133004	7	122845	284E	3466	133004	7	122845	284E	3466	AS04			
CW 39	BMU9946900	UNL	00	8MU9910920	INTO T-O	133004	1	122845	284E	3466	133004	1	122845	284E	3466	AS04			

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INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8M99	-	-	COMMENTS	LOC OP SU	ADDRESS	PGLIN SER REF
CX 01					CHAR @ ALL BIT CHECK						
CX 02	8M9947000	RCVS	01	8M9910920601	---X						
CX 03		TMTS	10	8M99317106009							
CX 04		UNL	00	8M9910900	SET BCA	INTO T-O					
CX 05		UNL	00	8M9947100	SET BCA						
CX 06		ULR	00	8M9947290	SET BCA	ERR CONTS ADDR					
CX 07		TITLE		000007	0007	3475					
CX 08		SET	00	000007	0007	3475					
CX 09		L0D	00	8M9912254	-----						
CX 10		UNL	00	8M9910940	RESET BIT BREAKDOWN						
CX 11		SET	00	000002	---						
CX 12		UNL	00	8M9910920-001	BIT CHECK ADDRESS						
CX 13		8M9947100	RCVS	01	000000	00#0	3480				
CX 14		UNL	01	8M9947130	133069 U	12284 2840 3479					
CX 15		UNL	09	8M9910940	133074 *	133084 T0YD 3481					
CX 16		TITLE		133084 *	2 133094 TORD 3484	133089 7 9 122853 20VC 3485	228AS06				
CX 17		8M9947130	TZB	02	8M9947150	133084 2 133094 TORD 3484					
CX 18		8M9947130	UNL	09	8M9947200	133084 2 133094 TORD 3484					
CX 19		TITLE		133084 *	8M9947180	133094 * 3 133119 T1ED 3502	CX26				
CX 20		8M9947150	TZB	4	8M9947170	133109 *	4 133119 T1ED 3487	CX22			
CX 21		TR	00	8M9947180	133094 *	3 133104 T1ED 3488	CX24				
CX 22		8M9947170	UNL	08	8M9910940-002	133104 7 8 122852 205B 3489	CX06				
CX 23		TITLE		133104 7 8 122852 205B 3489							
CX 24		8M9947180	TZB	8	8M9947200	133109 *	4 133119 T1ED 3501	CX26			
CX 25		TR	00	8M9947200	133109 *	4 133119 T1ED 3502	CX28				
CX 26		8M9947200	UNL	08	8M9910940-003	133119 7 8 122851 205A 3503	CX06				
CX 27		TITLE		133119 7 8 122851 205A 3503							
CX 28		8M9947210	TZB	A	8M9947230	133124 *	5 133134 T/TD 3505	CX31			
CX 29		TR	09	8M9947230	133124 *	5 133134 T/TD 3506	CX31				
CX 30		8M9947230	UNL	09	8M9910940-C04	133124 *	5 133134 T/TD 3506	CX31			
CX 31		8M9947230	TZB	B	8M9947250	133134 *	6 133144 T/MD 3508	CX34			
CX 32		TR	09	8M9947250	133134 *	6 133144 T/MD 3509	CX34				
CX 33		8M9947250	UNL	09	8M9910940-C05	133134 *	6 133144 T/MD 3509	CX34			
CX 34		8M9947250	TZB	C	8M9947270	133144 *	7 133154 T/ED 3511	CX36			
CX 35		TR	00	8M9947270	133144 *	7 133154 T/ED 3512	CX36				
CX 36		8M9947270	UNL	08	8M9910940-006	133154 7 8 122848 204H 3513	A506				
CX 37		TITLE		133154 7 8 122848 204H 3513							
CX 38		8M9947280	SET	00	000001	000001 0001 3516	3515				
CX 39		8M9947290	LOD	00	000000	00000 0000 3517	3515				
CX 40		8M9947290	UNL	00	8M9910920	000001 0001 3516	3515				
CX 41		8M9947290	INTO T-O	00	8M9910920	000001 0001 3516	3515				
						133164 7 8 122845 204E 3518	A504				

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INDEX	TAG	OP	NU AT	OPERRAND	PROGRAM	SMU99	-	-	COMMENTS	LOC	OP SU	ADDRESS	REG
CY 01		TR	00	SMU9947800									CZ04
CY 02		TITLE	CHAR Z ALL BIT CHECK		TMIS 01	SMU993109206001	Z--X			ULAA 00	SMU9947690	SET BCA ERR CONTS ADDR	CZ01
CY 03		RCVS 01	SMU993109206001	Z--X	TMIS 10	SMU99317006008			ULAA 00	SMU9947500	SET BCA INTO T-O	CY06	
CY 04		AS04	133179 U	I 122842 28UBS 3521	133184 9	I 129198 9JRH 3522			133189 7	122839 2831 3523		CY05	
CY 05		AS02	3520		133179 U	I 122842 28UBS 3521			133194 *	133229 1221 3524		CY07	
CY 06		AS01			133189 7	I 129198 9JRH 3522			133199 *	133324 1320 3525		CY14	
CY 07		AS01							ULAA 00	SMU9947690	SET BCA ERR CONTS ADDR	CY14	
CY 08		AS04	133204 B	000007 0007 3527	133209 8	123482 348B 3526	-----	-----	133214 7	122854 285D 3525		CY11	
CY 09		230AU04	3526		133204 B	000007 0007 3527			133244 7	122854 205D 3525		CY19	
CY 10		SET 00	000007	-----	133209 8	123482 348B 3526			133249 7	122854 205D 3525		CY22	
CY 11		UNL 00	SMU9912254	-----	133214 7	122854 285D 3525			133254 7	122853 20VC 3528		CY26	
CY 12		SET 00	000002	RESET BIT BREAKDOWN	133214 7	122854 285D 3525			133259 7	122853 20VC 3528		CY20	
CY 13		UNL 00	000000	-----	133229 U	1 000000 00#0 3522			133234 *	1 133244 12UD 3533		CY15	
CY 14		RCVS 01	000000	BIT CHECK ADDRESS	133224 7	122844 284D 3521			133239 1	133249 1241 3534		CY17	
CY 15		RCVS 01	000000	-----	133224 7	122844 284D 3521			133249 7	122852 20VB 3541		CY25	
CY 16		TR CO	00	SMU9947560	133269	3 133269 T2FI 3540			133264 7	122852 20VB 3541		CY23	
CY 17		UNL 00	SMU9947560	-----	133269 *	3 133269 T2FI 3540			133274 *	4 133279 TS7I 3543		CY24	
CY 18		TR CO	02	SMU9947560	133254 7	2 133259 T2IN 3537			133274 1	133284 T28D 3544		CY27	
CY 19		UNL 00	SMU9947560	-----	133249 *	2 133259 T2IN 3537			133279 7	8 122851 205A 3545		CY29	
CY 20		UNL 00	SMU9947560	-----	133254 7	9 122853 20VC 3528			133279 7	8 122851 205A 3545		CY22	
CY 21		UNL 00	SMU9947560	-----	133259 *	3 133269 T2FI 3540			133264 7	9 122852 20VB 3541		CY25	
CY 22		UNL 00	SMU9947560	-----	133259 *	3 133269 T2FI 3540			133264 7	9 122852 20VB 3541		CY23	
CY 23		UNL 00	SMU9947580	-----	133259 *	3 133269 T2FI 3540			133264 7	9 122852 20VB 3541		CY25	
CY 24		UNL 00	SMU9947580	-----	133264 7	9 122852 20VB 3541			133269 *	4 133279 TS7I 3543		CY21	
CY 25		TR CO	08	SMU9947600	133269 *	4 133279 TS7I 3543			133274 *	4 133284 T28D 3544		CY27	
CY 26		TR CO	08	SMU9947600	133269 *	4 133279 TS7I 3543			133274 1	133299 T29I 3548		CY31	
CY 27		UNL 00	SMU9947600	-----	133279 7	8 122851 205A 3545			133279 7	8 122850 2056 3549		CY32	
CY 28		TR CO	08	SMU9947630	133279 7	8 122850 2056 3549			133284 *	5 133294 TS2D 3547		CY34	
CY 29		UNL 00	SMU9947630	-----	133284 *	5 133294 TS2D 3547			133289 1	133299 T29I 3548		CY36	
CY 30		TR CO	08	SMU9947640	133289 *	5 133294 TS2D 3547			133289 1	133299 T29I 3548		CY38	
CY 31		UNL 00	SMU9947640	-----	133289 *	5 133294 TS2D 3547			133304 7	9 122849 20UI 3552		CY35	
CY 32		UNL 00	SMU9947640	-----	133304 7	9 122849 20UI 3552			133309 *	7 133319 TTAI 3554		CY36	
CY 33		UNL 00	SMU9947640	-----	133309 *	7 133319 TTAI 3554			133314 7	9 122848 20UH 3555		CY40	
CY 34		UNL 00	SMU9947640	-----	133314 7	9 122848 20UH 3555			133319 *	7 133319 TTAI 3554		CY40	
CY 35		UNL 00	SMU9947680	-----	133319 *	7 133319 TTAI 3554			133330 7	9 122849 20UI 3552		CY37	
CY 36		UNL 00	SMU9947680	-----	133330 7	9 122849 20UI 3552			133330 7	9 122849 20UI 3552		CY36	
CY 37		UNL 00	SMU9947680	-----	133330 7	9 122849 20UI 3552			133331 7	9 122848 20UH 3555		CY40	
CY 38		UNL 00	SMU9947680	-----	133331 7	9 122848 20UH 3555			133331 7	9 122848 20UH 3555		CY36	
CY 39		UNL 00	SMU9947680	-----	133331 7	9 122848 20UH 3555			133331 7	9 122848 20UH 3555		CY40	

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8MU99	-	-	COMMENTS	LOC OF SU	ADDRESS	PGLIN SER REF
CZ 01	8MU9947690	LOD	00	000000	BCA ERROR CONTENTS	133324 8	000000 00000 3559		133339 I	1 133364 13MD 3562	CZ12
CZ 02	8MU9947690	UNL	00	8MU9910920	Z--X INTO T-O	133329 7	022845 284E 3560		133339 1	133339 133I 3561	CZ204
CZ 03	8MU9947690	TR	00	8MU9947800		133334 1			133339 1	133339 133I 3561	CZ204
CZ 04	8MU9947800	TAA	01	8MU9947840	BYPASS T-O IF 0911 ON				133339 I	1 133364 13MD 3562	CZ12
CZ 05	8MU9947832	SEL	00	000500	0MU9910900	133342 R	000500 0500 3564	133342 X-X -----			CZ02
CZ 06	8MU9947832	TM C	11	8MU9947832		133354 0	12 133359 TLEI 3567		133359 O	12 133364 TCD6 3568	CZ10
CZ 07	8MU9947832	WR	00	000500	0MU9910900	133342 2	000500 0500 3564	133342 R	122834 283D 3565		A502
CZ 08	8MU9947832	TRC	12	8MU9947840		133354 0	12 133359 TLEI 3567		133359 O	12 133364 TCD6 3568	CZ12
CZ 09	8MU9947832	TM C	11	8MU9947832		133354 0	12 133359 TLEI 3567		133359 O	12 133364 TCD6 3568	CZ10
CZ 10	8MU9947832	TRC	12	8MU9947840		133354 0	12 133359 TLEI 3567		133359 O	12 133364 TCD6 3568	CZ12
CZ 11	8MU9947840	TAE	05	8MU9947960	BYPASS TABULATION IF 0915 ON	133364 I	5 133399 TIZI 3570	133364 I	1 125379 53XI 3572	CZ22	
CZ 12	8MU9947840	RCVS	01	8MU99167506001	BYPASS TABULATION IF 0915 ON	133369 U	1 125661 56WA 3571	133369 U	1 125379 53XI 3572	B2F26	
CZ 13	8MU9947840	RCVS	01	8MU99167506001	GO TO BP DROP OR PICK TABULATION	133379 U	1 127641 76UA 3574	133379 U	1 127641 76UA 3574	B2F28	
CZ 14	8MU9947840	TSL	01	8MU99266008001	SET MARTAB TR BACK	133384 I	1 125669 56WI 3575	133384 I	1 125669 56WI 3575	B2F28	
CZ 15	8MU9947840	TITLE		8MU99266008001	SET MARTAB TR BACK	133379 U	1 127641 76UA 3574	133379 U	1 127641 76UA 3574	B2F28	
CZ 16	8MU9947840	RCVS	01	8MU99266008001	GO TO MARTAB	133384 I	1 125669 56WI 3575	133384 I	1 125669 56WI 3575	B2F28	
CZ 17	8MU9947840	TSL	01	8MU99266008001	GO TO MARTAB	133384 I	1 125669 56WI 3575	133384 I	1 125669 56WI 3575	B2F28	
CZ 18	8MU9947840	TITLE		8MU99624206001	SET SEGTAB RETURN	133389 U	1 137531 X5TA 3577	133389 U	1 137104 XIAD 3578	D203	
CZ 19	8MU9947840	RCVS	01	8MU9961000		133389 I	1 137531 X5TA 3577	133389 I	1 137104 XIAD 3578	D203	
CZ 20	8MU9947960	TR	00	8MU9943260		133399 I	1 131864 /86D 3580	133399 I	1 131864 /86D 3580	CQ29	
CZ 21	8MU9947960	TITLE		8MU9943260		3579					
CZ 22	8MU9947960	RCVS	00	8MU9943260		3579					
CZ 23	8MU9950000	LDA	00	8MU9910760	SECTIONS 8 AND 9 - C-I-R AREA	133404 #	122749 274I 3582	133404 *	133544 254D 3583	AR24	
CZ 24	8MU9950000	UL A	00	8MU9910760	DETERMINE MEMORY HALF	133404 *	122749 274I 3582	133404 *	133544 254D 3583	AR24	
CZ 25	8MU9950050	NOP	00	8MU9950130	SET INITIAL TEST ADDR	133409 *	122749 274I 3582	133409 *	133544 254D 3583	AR24	
CZ 26	8MU9950050	NOP	00	8MU9950130	SECTION 9 SWITCH	133414 A	133469 46I 3584	133414 A	133469 46I 3584	CZ240	
CZ 27	8MU9950110	RCVS	01	8MU9950120	DETINITIAL TEST ADDR	133419 U	1 133541 X5UA 3586	133419 U	1 133514 X5UD 3588	CZ22	
CZ 28	8MU9950110	RCVS	02	8MU9950120	IF 800 UP & 200 DOWN	133439 *	4 133449 TU4I 3601	133439 *	4 133449 TU4I 3601	CZ22	
CZ 29	8MU9950110	RCVS	02	8MU9950120	IF 800 UP & 200 DOWN	133439 *	4 133449 TU4I 3601	133439 *	4 133449 TU4I 3601	CZ22	
CZ 30	8MU9950110	RCVS	02	8MU9950120	IF 8000 UP & 2000 DOWN	133424 *	4 133434 TU3D 3587	133424 *	4 133434 TU3D 3587	CZ22	
CZ 31	8MU9950120	RCVS	01	8MU9950120	IF 800 UP & 2000 DOWN	133434 U	1 133542 X5UB 3600	133434 U	1 133514 X5JD 3602	DA18	
CZ 32	8MU9950120	RCVS	02	8MU9950120	IF 800 UP & 200 DOWN	133434 *	2 133514 X5JD 3602	133434 *	2 133514 X5JD 3602	DA18	
CZ 33	8MU9950120	RCVS	02	8MU9950120	IF 800 UP & 200 DOWN	133439 *	4 133449 TU4I 3601	133439 *	4 133449 TU4I 3601	CZ22	
CZ 34	8MU9950120	RCVS	02	8MU9950120	IF 800 UP & 200 DOWN	133444 *	2 133514 X5JD 3602	133444 *	2 133514 X5JD 3602	DA18	
CZ 35	8MU9950120	RCVS	01	8MU9950120	IF 800 UP & 200 DOWN	133444 *	2 133514 X5JD 3602	133444 *	2 133514 X5JD 3602	DA18	
CZ 36	8MU9950120	RCVS	01	8MU9950120	IF 800 UP & 200 DOWN	133444 *	2 133514 X5JD 3602	133444 *	2 133514 X5JD 3602	DA18	
CZ 37	8MU9950120	RCVS	02	8MU9950120	IF 800 UP & 200 DOWN	133454 *	4 133529 TV2I 3605	133454 *	4 133529 TV2I 3605	DA18	
CZ 38	8MU9950120	RCVS	02	8MU9950120	IF 800 UP & 200 DOWN	133454 *	4 133529 TV2I 3605	133454 *	4 133529 TV2I 3605	DA18	
CZ 39	8MU9950120	RCVS	02	8MU9950120	IF 800 UP & 200 DOWN	133464 1	1 133529 TV2I 3607	133464 1	1 133529 TV2I 3607	DA18	
CZ 40	8MU9950130	RCVS	01	8MU9950140		133469 U	1 133541 X5UA 3608	133469 U	1 133541 X5UA 3608	DA03	
CZ 41	8MU9950130	RCVS	01	8MU9950140		133469 U	1 133541 X5UA 3608	133469 U	1 133541 X5UA 3608	DA03	

INDEX	TAG	OP	NU AT	OPRAND	PROGRAM 8MU99	- - - COMMENTS	LOC OF SU	ADDRESS	REF
DA 01		TZB	02	8MU9950230	66-- IF 800 UP 6 2000 DOWN	133479 * 2 133529 15K1 3610	D415		
DA 02		TZB	02	8MU9950230	66-- IF 800 UP 6 2000 DOWN	133484 U 1 133542 15UB 3612	D416		
DA 03	8MU9950140	RCVS	01	8MU99502608002		133489 * 4 133499 1U91 3613	D407		
DA 04	8MU9950150	RCVS	01	8MU9950150		13349 * 4 133499 1U91 3613	D407		
DA 05	8MU995020	TZB	02	8MU9950230	66-- IF 800 UP 6 2000 DOWN	133494 * 2 133529 15K1 3614	D415		
DA 06	8MU9950150	RCVS	01	8MU99502608003		133499 U 1 133543 15UC 3616	D418		
DA 07	8MU9950150	RCVS	01	8MU9950200	66-- IF 800-800-80 DOWN	133504 * 4 133543 15UC 3616	D418		
DA 08	8MU9950200	TZB	08	8MU9950200	66-- IF 800-800-80 DOWN	133509 * 2 133529 15K1 3618	D418		
DA 09	8MU9950200	TZB	02	8MU9950230	66-- IF 80 UP 6 20 DOWN	133509 * 2 133529 15K1 3617	D411		
DA 10	8MU9950200	TITLE		TEST FOR ODD OR EVEN IENS ADDR		133514 U 1 133543 15UC 3620	D418		
DA 11	8MU9950200	RCVS	01	8MU99502608003	66--	133519 * 1 133543 15UC 3620	D404		
DA 12	8MU9950200	TZB	01	8MU9950270	EVEN TENS ADDR IF NO 1 BIT	133519 * 1 133543 15UC 3621	D420		
DA 13	8MU9950200	TZB	00	8MU9950270	MUST BE ODD	133524 I 133549 15U1 3625	D420		
DA 14	8MU9950230	RCVS	01	8MU99502608003	66--	133529 U 2 133543 15UC 3623	D404		
DA 15	8MU9950230	RCVS	01	8MU9950270	EVEN TENS ADDR IF NO 1 BIT	133534 * 1 133549 15U1 3624	D420		
DA 16	8MU9950270	TR	00	8MU9951200	MUST BE ODD	133534 * 1 133549 15U1 3625	D420		
DA 17	8MU9950270	TR	00	8MU9951200	EVEN TENS ADDR IF NO 1 BIT	133539 I 133549 15U1 3626	D420		
DA 18	8MU9950260	LDA	00	8MU9950260	REDUCE BY 4	133549 # 133544 154D 3629	D418		
DA 19	8MU9950270	LDA	00	8MU9950260	LOAD COMMON TEST ADDR	3628			
DA 20	8MU9950260	8MU9950260	00	8MU9950260	REDUCE BY 4	133544 154D 3629	D418		
DA 21	SUB	00	8MU9950330	SET COMPLEMENT ADDR	133554 P 122685 268E 3630	D428			
DA 22	SUB	00	8MU9950330	SET COMMON TEST ADDR	133554 P 122685 268E 3630	D428			
DA 23	ULRA	00	8MU9950390	SET CA NO 8BIT TRANSMITTER	133559 * 133579 1571 3631	D428			
DA 24	ULRA	00	8MU9950420	SET RECOMPLEMENT ADDR	133564 * 133569 1571 3632	D428			
DA 25	ULRA	00	8MU9950500	SET NO 8BIT CHECK ADDR	133564 * 133619 1571 3633	D428			
DA 26	TITLE					133574 *	D815		
DA 27	8MU9950330	RCVS	01	000000	COMPLEMENT ADDRESS	133579 U 1 000000 00#0 3637	D436		
DA 28	8MU9950330	RCVS	01	000000	COMMON	133579 U 1 000000 00#0 3637	D436		
DA 29	8MU9950340	NOP	00	8MU9950370	SECTION 9 SWITCH	133584 A 133599 1591 3639	D434		
DA 30	8MU9950340	TITLE				133584 A 133599 1591 3639	D434		
DA 31	8MU9951940	TITLE				133589 9 5 129385 9TYE 3641	C809		
DA 32	8MU9951940	TITLE				133589 9 5 129385 9TYE 3641	C809		
DA 33	8MU9950380	RCVS	01	8MU9951990	INTO DEPOSIT AREA	133589 9 5 129385 9TYE 3642	C809		
DA 34	8MU9950370	TITLE				133599 9 5 129370 9TX6 3643	C806		
DA 35	8MU9950370	TITLE				133599 9 5 129370 9TX6 3643	C806		
DA 36	8MU9950380	RCVS	01	8MU9950470	CA NO BIT TRANSMITTER	133604 U 1 000000 00#0 3647	C811		
DA 37	8MU9950380	RCVS	01	8MU9950470	CA NO BIT TRANSMITTER	133604 U 1 000000 00#0 3647	C811		
DA 38	8MU9950390	TMTS	05	8MU9950470	GO TO CKR RETENTIVITY	133614 1 133649 154I 3648	gscans/00/gnd.0011		
DA 39	8MU9950390	TMTS	05	8MU9950470	TR 00	133614 1 133649 154I 3648	gscans/00/gnd.0011		

INDEX	TAG	OP	NU AT	OPERAEND	PROGRAM 8MU99	COMMENTS	LOC OP SU	ADDRESS	PGLIN SER-NR
DB 01				TITLE	- TO 6 RECOMPLEMENT AREA	RECOMPLEMENT ADDRESS	133619 U	1 000000 00#0 3650	
DB 02	8MU9950420	RCVS	01	000000			3649		
DB 03	8MU9950430	NOP	00	8MU9950460		SECTION 9 SWITCH	133624 A	133639 1631 3652	DB08
DB 04	8MU9950430	NOP	00	8MU9950460			3651		
DB 05	8MU9950460	TMS	05	8MU9931940	REPLACE NO BITS WITH ALL BITS	133629 9	5 129370 9T6 3654	3653 237	CB06
DB 06	8MU9950460	TMS	05	8MU9950820	REPLACE NO BITS WITH ALL BITS	133634 1	133799 1791 3655		DB844
DB 07		TR	00	8MU9950820					
DB 08	8MU9950460	TMS	05	8MU9931940	REPLACE NO BITS WITH ALL BITS	133639 9	5 129385 9TYE 3656		CB09
DB 09		TR	00	8MU9950820					
DB 10		TITLE		NO BIT RETENTIVITY CHECK					
DB 11	8MU9950470	SET	00	000007	NO BIT RETENTIVITY CHECK	133649 B	000007 0007 3659		
DB 12		LDD	00	8MU9912254					
DB 13		UNL	00	8MU9910940	RESET BIT BREAKDOWN	133649 7	122854 2850 3661		AS06
DB 14	8MU9950500	RCV	00	000000	NO BIT CHECK ADDRESS	133664 U	000000 0000 3663		
DB 15		TZB	01	8MU9950530					
DB 16		133669 *	1	133679 16X1 3664					
DB 17	8MU9950530	UNL	09	8MU9910940	-----P	133674 7	9 122854 20V6 3665		
DB 18		133679 *	2	133689 1601 3666					
DB 19	8MU9950530	UNL	09	8MU9910940	-----P	133679 *	9 122853 20VC 3667		
DB 20	8MU9950550	TZB	04	8MU9950570		133689 *	3 133699 1761 3668		238DB22
DB 21		UNL	09	8MU9910940	----P--				
DB 22	8MU9950570	TZB	08	8MU9950590		133699 *	4 133709 1X01 3670		DB24
DB 23		UNL	09	8MU9910940-003	----P----				
DB 24	8MU9950590	TZB	A	8MU9950610		133704 7	9 122851 20VA 3671		AS06
DB 25		UNL	09	8MU9910940-005	----P----	133719 *	6 133729 TXKI 3674		
DB 26	8MU9950610	TZB	B	8MU9950630		133724 7	9 122849 20U1 3675		DB28
DB 27		UNL	09	8MU9910940-C04	----P----	133729 *	7 133739 TXCI 3676		
DB 28	8MU9950630	TZB	C	8MU9910940-006	P-----	133734 7	9 122848 20UH 3677		DB30
DB 29		UNL	09	8MU9910940-007	P-----	133739 B	000007 0007 3678		AS06
DB 30	8MU9950650	SET	00	000007	LD BIT BREAKDOWN PART OF T-O	133740 8	122854 2850 3679		
DB 31		LDD	00	8MU9910940	TEST FOR EQUAL TO -----	133744 *	7 133739 TXCI 3679		
DB 32		CMR	00	8MU9912254	TEST FOR EQUAL TO -----	133749 4	123482 3488 3680		239AU04
DB 33		TR	00	8MU9950750		133754 L	133769 1761 3681		DB37
DB 34	TITLE	RCVS	01	8MU99528406001	BIT PICK-IF NOT EQUAL	133759 U	1 134556 U5VF 3683		DB39
DB 35		TSI	01	8MU9952500		133764 1	1 134444 U4UD 3684		DB07
DB 36		RCVS	01	8MU99525001	BIT PICK-IF NOT EQUAL	133764 U	1 134444 U4UD 3684		
DB 37	8MU9950750	SET	00	000004	0004 3685	133769 B	000004 0004 3685		DB15
DB 38		LDD	00	8MU9950500	LD NBCA	133774 8	133664 166D 3686		DB15
DB 39		CMR	00	8MU9950260	TEST FOR EQUAL TO CTA	133774 4	133544 154D 3687		DA18
DB 40		TR	00	8MU9950420		133784 L	133619 1611 3688		DB02
DB 41	TITLE	TR	00	8MU9950470	INCREASE NBCA BY 000001	133789 E	1 133664 16MD 3700		DB15
DB 42		AMM	01	8MU9950500		133794 1	133649 1641 3701		DB11
DB 43		TR	00	8MU9950470		133794 1	133649 1641 3701		DB07
DB 44	8MU9950820	NOP	00	8MU9950900	SECTION 9 SWITCH	133799 A	133824 182D 3702		DC07

INDEX	TAG	OP	NU AT	OPRESS	LOC	OP SU	ADDRESS	PROGRAM	COMMENT	-	-
DC 01	LDA	00	BMU9950260	LDD TEST ADDR	133544 #	133804 #	133544 154D 3703	DA18			
DC 02	CMP	00	BMU9950260	TEST FOR 79999	133809 4	133812 2798 3704	240A33	DC15			
DC 03	CMP	00	BMU9950260	TEST FOR 79999	133814 L	133814 L	133854 185D 3705	DC15			
DC 04	TR	00	BMU9950260	TEST FOR 79999	133819 1	133819 1	133839 1831 3706	DC12			
DC 05									3707		
DC 06	TITLE										
DC 07	8M9950900	LDA	00	BMU9950260	LDD TEST ADDR	133544 154D 3703	DA18	DC09	TEST FOR 79999	133834 L	133839 1831 3711
DC 08		CMP	00	BMU9950260	TEST FOR 79999	133829 4	133829 4	DC08	TEST FOR 79999	122792 2798 3710	AR33
DC 09		TR	00	BMU9951100	TEST FOR 79999	133834 L	133834 L	DC09	TEST FOR 79999	133839 1831 3711	DC29
DC 10									3712		
DC 11	TITLE										
DC 12	8M9950940	LDA	00	BMU9950260	INCREASE COMMON TEST ADDR	128274 827D 3714	3713	DC11	000005	13384 #	13384 #
DC 13		AAM	00	BMU9950260	INCREASE COMMON TEST ADDR	13384 #	13384 #	DC12	133544 154D 3715	13384 6	13384 6
DC 14		TR	00	BMU9950050		133849 1	133849 1	DC13	133414 141D 3716	133414 141D 3716	CZ26
DC 15	8M9951000	TAA	01	BMU9951030		133854 I	133879 18X1 3717	DC14	133854 I	133879 18X1 3717	DC22
DC 16		SEL	00	BMU9951030		133852 2	000500 0500 3718	DC15	133852 2	000500 0500 3718	BZ33
DC 17		WR	00	BMU9931580	SECTION 8 COMPLETE	133864 R	129122 9128 3719	DC16	133864 R	129122 9128 3719	BZ33
DC 18	TITLE					133869 2	000500 0500 3718	DC17			
DC 19	8M9951022	TMC	11	BMU9951022		133869 0 II	133874 106D 3721	DC20			
DC 20		TRC	12	BMU9951022		133874 0 II	133874 106D 3721	DC20			
DC 21	TITLE					133879 I	6 133894 TYRD 3724	DC21			
DC 22	8M9951030	TAF	06	BMU9935600	PRINT TAE RESULTS IF 0916 ON	133884 I	2 129884 980D 3725	DC22	133884 I	129999 9991 3726	CZ22
DC 23		TR	00	BMU9935600	REPEAT SECTION 8 IF 0912 ON	133889 1	129999 9991 3726	DC23			
DC 24						133894 I	6 133894 TYRD 3724	DC24			
DC 25	8M995107C	RCVS	01	BMU99083306681		133894 U	1 122551 25VA 3727	DC25			
DC 26		TSL	01	BMU9908000	GO TO TAB PRINT AREA	133899 1	1 122064 20WD 3726	DC26			
DC 27	TITLE					133899 I	1 122064 20WD 3726	DC27			
DC 28	8M9951100	TAA	01	BMU9951130		133904 I	1 133884 T88D 3730	DC28			
DC 29		SEL	00	BMU9951130	SECTION 9 COMPLETE	133909 I	1 133934 T9TD 3731	DC29	000500 0500 3732	133914 2	BZ35
DC 30		MR	00	BMU9931590	SECTION 9 COMPLETE	133919 R	129126 912F 3733	DC30	000500 0500 3732	133914 2	BZ35
DC 31						133919 R	129126 912F 3733	DC31			
DC 32	TITLE					133924 O	II 133929 T13D 3736	DC32			
DC 33	8M9951122	TMC	11	BMU9951122		133924 O	II 133929 T13D 3735	DC33			
DC 34		TRC	12	BMU9951122		133924 O	II 133929 T13D 3736	DC34			
DC 35	TITLE					133934 I	6 133949 TZMI 3738	DC35	133934 I	2 129999 9991 3739	CF14
DC 36	8M9951130	TAF	06	BMU9951170	PRINT TAB RESULTS IF 0916 ON	133934 I	6 133949 TZMI 3738	DC36	133934 I	130144 #140 3740	CG09
DC 37		TR	00	BMU9935800	REPEAT SECTION 9 IF 0912 ON	133939 I	2 129999 9991 3739	DC37			
DC 38						133939 I	130144 #140 3740	DC38			
DC 39	8M9951170	RCVS	01	BMU99083506001		133949 U	1 122551 25VA 3741	DC39			
						133949 U	1 122064 20WD 3742	DA09			
								AN20			

INDEX	TAG	OP	NU AT	OPRAND	PROGRAM 8M99	-	COMMENTS	LOC OP SU	ADDRESS	PLTN SER REF
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DD 01 TITLE TR 00 8M9951140 133959 1 133939 1931 3744 DC37  
 DD 02 TITLE TR 00 8M9951140 133959 1 133939 1931 3744 DC37  
 DD 03 TITLE - TO 6 COMPLEMENT AREA 133964 # 133544 1540 3746 DA18  
 DD 04 8M9951200 LDA 00 8M9950260 LOD COMMON TEST ADDR 133964 # 133544 1540 3746 DA18  
 DD 05 SUB 00 8M9910520 REDUCE BY 4 133969 P 122685 268E 3747 AR02  
 DD 06 ULA 00 8M9951260 SET COMPLEMENT ADDR 133974 \* 133989 1981 3748 DD11  
 DD 07 ULA 00 8M9951320 SET CA ALL BIT TRANSMITTER 133979 \* 134019 0011 3749 DD21  
 DD 08 ULA 00 8M9951350 SET RECOMPLEMENT ADDR 133984 \* 134029 0021 3750 DD24  
 DD 09 TITLE 3751 243  
 DD 10 TITLE 3752 243  
 DD 11 8M9951260 RCVS 01 000000 COMPLEMENT ADDRESS 133989 U 1 000000 00#0 3753  
 DD 12 TITLE 3754 DD17  
 DD 13 8M9951270 NOP 00 8M9951300 SECTION 9 SWITCH 133994 A 134009 0001 3755  
 DD 14 TITLE 3756 CB06  
 DD 15 TMS 05 8M9931910 REPLACE NO BITS WITH ALL BITS 133999 9 5 129370 9TxE 3757 CB06  
 DD 16 TR 00 8M9931910 REPLACE NO BITS WITH ALL BITS 134004 1 134014 001D 3758 CB06  
 DD 17 8M9951300 TMS 05 8M9931940 REPLACE NO BITS WITH ALL BITS 134009 9 5 129385 9TxE 3759 CB09  
 DD 18 TITLE 3760  
 DD 19 TITLE 3761 CB11  
 DD 20 8M9951310 RCVS 01 8M9931990 INTO DEPOSIT AREA 134014 U 1 129395 932E 3762  
 DD 21 8M9951320 TMS 05 000000 CA ALL BIT TRANSMITTER 134019 9 5 000000 0#0 3763  
 DD 22 TR 00 8M9951420 GO TO CHK RETENTIVITY 134024 1 134059 0051 3764 DD33  
 DD 23 TITLE 3765 CB11  
 DD 24 8M9951350 RCVS 01 000000 RECOMPLEMENT ADDRESS 134029 U 1 000000 00#0 3766  
 DD 25 TITLE 3767 DD30  
 DD 26 8M9951360 NOP 00 8M9951390 SECTION 9 SWITCH 134034 A 134049 0041 3768  
 DD 27 TITLE 3769 CB09  
 DD 28 TMS 05 8M9931940 REPLACE ALL BITS WITH NO BITS 134039 9 5 129385 9TxE 3770 CB09  
 DD 29 TR 00 8M9931940 REPLACE ALL BITS WITH NO BITS 134044 1 133799 1791 3771 DB44  
 DD 30 8M9951390 TMS 05 8M9931910 REPLACE ALL BITS WITH NO BITS 134049 9 5 129370 9TxE 3772 244CB06  
 DD 31 TR 00 8M9931940 REPLACE ALL BITS WITH NO BITS 134054 1 133799 1791 3773 DB44  
 DD 32 TITLE 3774 DA18  
 DD 33 8M9951420 LDA 00 8M9950260 LOD COMMON TEST ADDR 134059 # 133544 1540 3775 DA18  
 DD 34 TITLE 3776 DB44  
 DD 35 TITLE 3777 DB03  
 DD 36 SET 00 000000 GM CHECK ADDRESS 134069 B 000005 0005 3778 DB44  
 DD 37 8M9951450 LDD 00 000000 GM CHECK ADDRESS 134074 8 000000 0000 3779 DB44  
 DD 38 CMR 00 8M9910859 TEST FOR 5 EQUAL GROUP MARKS 122808 280H 3780 DB44  
 DD 39 TITLE 00 00 8M9951500 OK- GO TO CHK FOR C BIT DROP 134094 L 134094 009D 3781 DB44

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM	8MU99	-	COMMENTS	LOC	OP SU	ADDRESS	PGLIN SER REF
DE 01		TR	00	8MU9952000				BIT DROP - IF NOT EQUAL	134089 I	134254 U25D 3782	DF06	
DE 02		TITLE		C BIT DROP CHK-ALL BIT CHK SEC								
DE 03		8MU9951500	LDA	00	8MU9951450	L0D GMCA		134094 #	134074 U07D 3784			
DE 04		SUB	00	8MU9910520	REDUCE BY 4			134099 P	122685 268E 3785			
DE 05		RLA	00	8MU9951550	SET CBDC ADDR			134104 *	134114 U11D 3786			
DE 06		RAD	02	8MU9910530	5			134109 H	2 122686 260F 3787			
DE 07		TITLE										
DE 08		8MU9951550	TITLE									
DE 09		8MU9951550	RCVS	01	000000	C BIT DROP CHK ADDRESS		134114 U	1 000000 00#0 3800			
DE 10		TZB	C	8MU9951650	ERROR - IF NO C BIT			134119 *	7 134144 U/DD 3801			
DE 11		TITLE										
DE 12		8MU9951570	SUB	02	8MU9910510	REDUCE CTR BY 1		134124 P	2 122682 260B 3803			
DE 13		TRZ	02	8MU9951550	INCRAESE CBDCA BY 000001			134129 N	2 134029 UOKI 3804			
DE 14		TRM	00	8MU9951550	INCRAESE CBDCA BY 000001			134134 E	1 134114 U11D 3805			
DE 15		TR	00	8MU9951550	134139 I			134139 I	1 134114 U11D 3806			
DE 16		8MU9951650	SET	00	000006	0006 3807		134144 B	000006 0006 3807			
DE 17		LDD	00	8MU9910940	INTO 1-O			134149 8	123482 348B 3808			
DE 18		UNL	00	8MU9912254	INTO 1-O			134154 7	122854 285D 3809			
DE 19		UNL	08	8MU9910940-006	D FOR DROP INTO 1-O			134159 7	8 122848 204H 3810			
DE 20		SET	00	000004	INTO 1-O			134154 B	000004 0004 3812			
DE 21		LDD	00	8MU9931660	-AB-			134169 8	129168 916H 3813			
DE 22		UNL	00	8MU9910920	INTO 1-O			134174 7	122845 284E 3814			
DE 23		SET	00	000004	-AB-			134174	7 122845 284E 3814			
DE 24		TITLE						134179 *	134114 U11D 3816			
DE 25		LDA	00	8MU9951550	LOD CBDCA			134179 #	134114 U11D 3816			
DE 26		UNL	00	8MU9910900	INTO 1-O			134184 7	122839 283I 3817			
DE 27		UNL	01	8MU9951850	BYPASS T-O IF 0911 ON			134189 I	1 134214 U2/D 3818			
DE 28		TITLE						134194 2	000500 0500 3820			
DE 29		SEL	00	000500	000000 -AB- D-----			134199 R	122834 283D 3821			
DE 30		MR	00	8MU9910900	000000 -AB- D-----			134199 R	122834 283D 3821			
DE 31		TITLE						3822				
DE 32		TMC	11	8MU9951840	134204 O 11 134209 UK6I 3823			134204 0	11 134209 UK6I 3824			
DE 33		8MU9951840	TRC	12	8MU9951850	134209 0 12 134214 UB1C 3824			134209 0	12 134214 UB1C 3824		
DE 34		TITLE						3825				
DE 35		8MU9951850	TAE	05	8MU9951940	134214 1 5 134249 USU1 3826		134214 1	5 134249 USU1 3826			
DE 36		RCVS	01	8MU9907946001	SET VAR RETRACE TR BACK			134219 U	1 127641 76UA 3830			
DE 37		TSL	01	8MU9914270	GO TO C BIT TAB			134224 1	1 124804 48#D 3828			
DE 38		TITLE						3829				
DE 39		RCVS	01	8MU99266001	SET MARTAB TR BACK			134229 U	1 127641 76UA 3831			
DE 40		TSL	01	8MU9920170	GO TO MARTAB			134234 1	1 125669 56MI 3831			
DE 41		TITLE						3832				

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8MU99	-	-	COMMENTS	LOC	OP SU	ADDRESS	PGLIN SER REF
DF 01	RCVS	01	8MU99624206001	SET SEGTABLE RETURN	134239 U	1	137531 X5TA 3833	DZ03	134244 1	1	137104 X1#D 3834	DW03
DF 02	RCVS	01	8MU9961000						3835			
DF 03	SMU9951940	TR	00	8MU9951570	VARIABLE TR BACK	134249 1		134124 U12D-3836	DE12			
DF 04	SMU9951940	TR	00	8MU9951450	ALL BIT CHECK-BIT DROP DETERMIT	134254 *	134074 U07D 3838	DD37				
DF 05	SMU9952000	LDA	00	8MU9951450	L0D GMCA	134254 *	134074 U07D 3838	DD37	134249 1			
DF 06	SMU9952000	LDA	00	8MU9951450	REDUCE BY 4	134259 P	122685 268E 3839	AR02	134264 *			
DF 07	SUB	00	8MU9910320	SET ABDC A	134259 P	122685 268E 3839	AR02	134264 *				
DF 08	ULR	00	8MU9952100	SET ABDC A	134269 H	2 122686 0007 3841	AR03	134274 B				
DF 09	RAD	02	8MU9910530	5	134269 H	2 122686 0007 3841	AR03	134274 B				
DF 10	SMU9952050	SET	00	8MU9912254	000007 0007 3842	134274 B		123478 2 3842	AR03			
DF 11	LOD	00	8MU9912254	-----	134279 8	123478 2 3842	AR03	134279 8				
DF 12	UNL	00	8MU9910940	RESET BIT BREAKDOWN	134284 7	122854 285D 3844	AS06	134284 7				
DF 13	TITLE								3845	248		
DF 14	SMU9952100	RCVS	01	000000	ALL BIT DROP CHK ADDRESS	134289 U	1 000000 00#0 3847	DF18	134299 1	134309 U301 3849	DF19	
DF 15	SMU9952130	UNL	02	8MU9910940	-----D	134304 7	8 122854 205D 3850	AS06	134309 •	2 134319 U311 3851	DF21	
DF 16	SMU9952130	UNL	02	8MU9910940	-----D	134319 7	8 122853 205C 3853	AS06	134324 •	3 134334 U3CD 3854	DF24	
DF 17	SMU9952170	TZB	04	8MU9952190	-----D	134329 1	134333 U331 3855	AS06	134329 1	134333 U331 3855	DF25	
DF 18	SMU9952160	UNL	08	8MU9910940-003	-----D	134319 7	8 122852 205B 3856	AS06	134339 •	4 134349 U74I 3857	DF27	
DF 19	SMU9952220	UNL	08	8MU9910940-002	-----D	134349 7	8 122851 205A 3859	249AS06	134354 1	5 134364 U7WD 3860	DF30	
DF 20	SMU9952220	TZB	08	8MU9910940-003	-----D	134349 7	8 122850 2056 3862	AS06	134369 •	6 134379 UTP1 3863	DF33	
DF 21	SMU9952220	UNL	08	8MU9910940-004	-----D	134364 7	8 122850 2056 3864	AS06	134374 1	134384 U38D 3864	DF34	
DF 22	SMU9952220	TZB	08	8MU9910940-005	-----D	134364 7	8 122850 2056 3865	AS06	134379 7	8 122849 204I 3865	AS06	
DF 23	SMU9952220	UNL	08	8MU9910940-006	-----D	134379 7	8 122848 204H 3868	AS06	134384 1	134399 U39I 3867	DF36	
DF 24	SMU9952190	UNL	08	8MU9910940-007	-----D	134379 7	8 122848 204H 3868	AS06	134384 1	134399 U39I 3867	DF37	
DF 25	SMU9952220	TZB	08	8MU9910940-008	-----D	134369 •	7 134379 UTID 3866	AS06	134379 1	134399 U39I 3867	DF38	
DF 26	SMU9952220	UNL	08	8MU9910940-009	-----D	134369 •	7 134379 UTID 3866	AS06	134379 1	134399 U39I 3867	DF39	
DF 27	SMU9952220	UNL	08	8MU9910940-010	-----D	134349 7	8 122851 205A 3859	249AS06	134354 1	134369 U36I 3861	DF31	
DF 28	SMU9952230	TZB	08	8MU9910940-011	-----D	134349 7	8 122850 2056 3860	249AS06	134354 •	5 134364 U7WD 3860	DF30	
DF 29	SMU9952230	UNL	08	8MU9910940-012	-----D	134354 1	134369 U36I 3861	DF31	134369 •	6 134379 UTP1 3863	DF33	
DF 30	SMU9952250	UNL	08	8MU9910940-013	-----D	134354 1	134369 U36I 3861	DF31	134369 •	6 134379 UTP1 3863	DF33	
DF 31	SMU9952260	TZB	08	8MU9910940-014	-----D	134369 •	6 134379 UTP1 3863	DF33	134379 7	8 122848 204H 3868	AS06	
DF 32	SMU9952260	UNL	08	8MU9910940-015	-----D	134379 7	8 122848 204H 3868	AS06	134384 1	134399 U39I 3867	DF37	
DF 33	SMU9952280	UNL	08	8MU9910940-016	-----D	134379 7	8 122848 204H 3868	AS06	134384 1	134399 U39I 3867	DF37	
DF 34	SMU9952290	TZB	08	8MU9910940-017	-----D	134369 •	7 134379 UTID 3866	AS06	134379 1	134399 U39I 3867	DF38	
DF 35	SMU9952310	UNL	08	8MU9910940-018	-----D	134379 7	8 122848 204H 3868	AS06	134384 1	134399 U39I 3867	DF37	
DF 36	SMU9952310	UNL	08	8MU9910940-019	-----D	134379 7	8 122848 204H 3868	AS06	134384 1	134399 U39I 3867	DF37	
DF 37	SMU9952330	LOD	00	8MU9910940-020	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 38	SMU9952330	CMP	00	8MU9910940-021	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 39	SMU9952330	TR	00	8MU9910940-022	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 40	SMU9952330	TR	00	8MU9910940-023	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 41	SMU9952330	TR	00	8MU9910940-024	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 42	SMU9952330	TR	00	8MU9910940-025	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 43	SMU9952330	TR	00	8MU9910940-026	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 44	SMU9952330	TR	00	8MU9910940-027	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 45	SMU9952330	TR	00	8MU9910940-028	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 46	SMU9952330	TR	00	8MU9910940-029	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 47	SMU9952330	TR	00	8MU9910940-030	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 48	SMU9952330	TR	00	8MU9910940-031	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 49	SMU9952330	TR	00	8MU9910940-032	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 50	SMU9952330	TR	00	8MU9910940-033	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 51	SMU9952330	TR	00	8MU9910940-034	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 52	SMU9952330	TR	00	8MU9910940-035	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 53	SMU9952330	TR	00	8MU9910940-036	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 54	SMU9952330	TR	00	8MU9910940-037	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 55	SMU9952330	TR	00	8MU9910940-038	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 56	SMU9952330	TR	00	8MU9910940-039	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 57	SMU9952330	TR	00	8MU9910940-040	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 58	SMU9952330	TR	00	8MU9910940-041	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 59	SMU9952330	TR	00	8MU9910940-042	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 60	SMU9952330	TR	00	8MU9910940-043	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 61	SMU9952330	TR	00	8MU9910940-044	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 62	SMU9952330	TR	00	8MU9910940-045	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 63	SMU9952330	TR	00	8MU9910940-046	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 64	SMU9952330	TR	00	8MU9910940-047	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 65	SMU9952330	TR	00	8MU9910940-048	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 66	SMU9952330	TR	00	8MU9910940-049	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 67	SMU9952330	TR	00	8MU9910940-050	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 68	SMU9952330	TR	00	8MU9910940-051	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 69	SMU9952330	TR	00	8MU9910940-052	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 70	SMU9952330	TR	00	8MU9910940-053	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 71	SMU9952330	TR	00	8MU9910940-054	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 72	SMU9952330	TR	00	8MU9910940-055	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 73	SMU9952330	TR	00	8MU9910940-056	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 74	SMU9952330	TR	00	8MU9910940-057	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 75	SMU9952330	TR	00	8MU9910940-058	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 76	SMU9952330	TR	00	8MU9910940-059	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 77	SMU9952330	TR	00	8MU9910940-060	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 78	SMU9952330	TR	00	8MU9910940-061	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 79	SMU9952330	TR	00	8MU9910940-062	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 80	SMU9952330	TR	00	8MU9910940-063	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	123482 3488 3843	AS06	
DF 81	SMU9952330	TR	00	8MU9910940-064	TEST FOR -----	134369 4	123482 3488 3843	AS06	134379 8	1234		

INDEX	TAG	OP	NU AT	OPERAEND	PROGRAM 8MU99	-	-	COMMENTS	LOC	OP SU	ADDRESS	PGLIN SER REF	
DG 01		TSL	01	8MU9952600				134419 1	1	134474	04XD 3874	D615	
DG 02	8MU995238C	SUB	02	8MU9910510	REDUCE CTR BY 1							A042	
DG 03		TRZ	02	8MU9951350				134429 N	2	134029	0UKI 3875	D0024	
DG 04		TRZ	01	8MU9952100	INCREMENT CTR BY 000001			134434 E	1	134289	U2YI 3877	D015	
DG 05		TR	00	8MU9952050	INCREMENT ABDC A BY 000001			134439 1		134274	U27D 3878	D010	
DG 06	8MU9952500	LDA	00	8MU9950500	LOAD NBCA			134444 #	133664	166D 3880	DB15		
DG 07		UNL	00	8MU9910900	INTO 1-O			134444	#	122839	283I 3881	D015	
DG 08	8MU9952500	LDA	00	8MU9910900	INTO 1-O			134444	#	122839	283I 3881	D015	
DG 09		TITLE		BIT PICK T-O SETUP				134444	#	133664	166D 3880	A502	
DG 10		SET	00	000004	INTO 1-O			134454 B	000004	0004 3883	3882	C404	
DG 11		SET	00	000004	INTO 1-O			134459 8	129172	917B 3884	3883	C404	
DG 12		LOD	00	8MU9931670	-NB-			134464 7	122845	284E 3885	3884	C404	
DG 13		TR	00	8MU9952700				134469 1		134499 U491 3886	251D621		
DG 14	8MU9952600	LDA	00	8MU9952100	LOAD ABDC A			134474 #	134289	U28I 3888	D015		
DG 15		UNL	00	8MU9910900	INTO 1-O			134474	#	122839	283I 3889	A502	
DG 16	8MU9952700	TAA	01	8MU9952750	BYPASS T-O IF 0911 ON			134499 1	1	134524	U55D 3904	D629	
DG 17		TITLE		BIT DROP T-O SETUP				134494 7	122845	284E 3903	3903	C402	
DG 18		SET	00	000004	INTO T-O			134489 8	129168	916H 3902	3902	C402	
DG 19		LOD	00	8MU9931660	-AB-			134489 8	122845	284E 3902	3902	C402	
DG 20		UNL	00	8MU9910920	INTO T-O			134494 7	122845	284E 3903	3903	C402	
DG 21	8MU9952700	TAA	01	8MU9952750	BYPASS T-O IF 0911 ON			134499 1	1	134524	U55D 3904	D629	
DG 22		TITLE		BIT SEL	SEL	00	0CU500	8MU9910900	000000	XX	-----	A502	
DG 23		WR	00	0CU500	INTO T-O			134504 2	000500	0500 3906	3905	D627	
DG 24		TITLE		BIT SEL	SEL	00	0CU500	8MU9910900	000000	XX	-----	A502	
DG 25		TITLE		BIT SEL	SEL	11	8MU9952740	8MU9952750	-----	-----	-----	D627	
DG 26		TITLE		BIT SEL	SEL	11	8MU9952740	8MU9952750	-----	-----	-----	D627	
DG 27		TITLE		BIT SEL	SEL	12	8MU9952740	8MU9952750	-----	-----	-----	D629	
DG 28		TITLE		BIT SEL	SEL	05	8MU9952750	TAE	-----	-----	-----	D639	
DG 29	8MU9952750	TAE	05	8MU9952750	BYPASS TABULATION IF 0915 ON			134524 1	5	134559 UVVI 3912	3911	D639	
DG 30		RCVS	01	8MU9962406001	SET BIT TAB RETURN			134529 U	1	17531 X5TA 3919	3918	D636	
DG 31		TSL	01	8MU99166000	GO TO BP DROP OR PICK			134534 1	1	125379 53XI 3924	3921	D637	
DG 32		TITLE		BIT SEL	SEL	01	8MU9926600601	SET MAR TAB RETURN	134539 U	1	127641 76UA 3916	3915	D633
DG 33		RCVS	01	8MU9926600601	GO TO MAR TAB			134539 1	1	125669 56MI 3917	3919	D634	
DG 34		TITLE		BIT SEL	SEL	01	8MU9920170	8MU9920170	-----	-----	-----	D635	
DG 35		TITLE		BIT SEL	SEL	01	8MU9961000	SET SEG TAB RETURN	134554 U	1	17104 X1#D 3920	3923	D636
DG 36		RCVS	01	8MU9961000	GO TO BP TAB RETURN			134554 1	1	17104 X1#D 3920	3923	D637	
DG 37		TSL	01	8MU9950750	VAR SEC 3 AND 9 RETURN			134559 1		133769 176I 3922	3921	D638	
DG 38		TITLE		BIT SEL	SEL	00	8MU9950750	8MU9950750	-----	-----	-----	D639	
DG 39		TITLE		BIT SEL	SEL	00	8MU9950750	8MU9950750	-----	-----	-----	D640	
DG 40		TITLE		BIT SEL	SEL	00	8MU9950750	8MU9950750	-----	-----	-----	D641	

SECTION 10 AND 11 C-I-R AREA

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INDEX	TAG	OP	NU AT	OPRAND	PROGRAM BMU99	COMMENTS	LOC OP SU	ADDRESS	PGLIN SER REF	
DH 01	UIA	00	BMU9953260	SET INITIAL TEST ADDR	134569 *	134704 U7D 3925	DH35	134574 A	134629 U62I 3926 DH16	
DH 02	BMU9953050	NOP	00	BMU9953130	SECTION II SWITCH					
DH 03				DETERMINE MEMORY HALF						
DH 04	RCVS	01	BMU9953260G001	TEST MTA FOR 8000	134579 U	134701 U7A 3928	DH35	134584 *	4 134594 UV9D 3929 DHO8	
DH 05										
DH 06										
DH 07										
DH 08	BMU9953110	RCVS	01	BMU9953260G002	TEST MTA FOR 800	134594 U	1334702 U7B 3932	DH35	134599 *	4 134609 UMOI 3933 DH12
DH 09										
DH 10										
DH 11	BMU9953120	RCVS	01	BMU9953260G003	TEST MTA FOR 80	134609 U	134703 U7C 3936	DH35	134629 U	1 134701 U7A 3940 DH35
DH 12										
DH 13										
DH 14										
DH 15										
DH 16	BMU9953130	RCVS	01	BMU9953260G001	TEST MTA FOR 800	134629 U	134700 UP 6 2000 DOWN	DH35	134634 *	4 134644 UW4D 3941 DH20
DH 17										
DH 18										
DH 19										
DH 20	BMU9953140	RCVS	01	BMU9953260G002		134644 U	1 134702 U7B 3943	DH35	134649 *	4 134659 UWSI 3944 DH28
DH 21										
DH 22										
DH 23	BMU9953150	RCVS	01	BMU9953260G003		134644 U	1 134702 U7A 3947	DH35	134659 U	1 134703 U7C 3948 DH28
DH 24										
DH 25										
DH 26										
DH 27	BMU9953200	RCVS	01	TEST FOR ODD OR EVEN TENS-ADDR	134674 U	1 134703 U7C 3951	DH35	134674 U	1 134703 U7C 3952 DH27	
DH 28										
DH 29										
DH 30										
DH 31	BMU9953230	RCVS	01	BMU9953260G003	--66--	134674 U	1 134703 U7C 3955 DH35			
DH 32										
DH 33										
DH 34										
DH 35										
DH 36	BMU9953270	LDA	00	BMU9953260	6 TO - COMPLEMENT AREA	134709 #	134704 U7D 3961 DH35		3960 255	
DH 37										
DH 38	SUB	00	BMU9953260	LOAD TEST ADDR	134709 #	134704 U7D 3961 DH35				
DH 39										
DH 40										
DH 41										
DH 42										

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8M999	-	COMMENTS	LOC OP SU	ADDRESS	SECTION SEE REF
DI 01	8M9953350	RCVS	01	6000000	COMPLEMENT ADDR			134734 U	1 000000 00#0 3968	3967
DI 03	8M9953360	NOP	00	8M9953390	SECTION II SWITCH			134739 A	134754 U750 3970	D108
DI 04	8M9953360	NOP	00	8M9953390	SECTION II SWITCH			134739 A	134754 U750 3970	D108
DI 05	8M99531940	TR	00	8M9953400	REPLACE V-V-A WITH -V-V-			134744 9	5 129385 9TYE 3972	3971
DI 06	8M99531940	TR	00	8M9953400	REPLACE V-V-A WITH -V-V-			134744 1	134759 U751 3973	C111
DI 07	8M99531940	TR	00	8M9953400	REPLACE V-V-A WITH -V-V-			134744 9	5 129385 9TYE 3972	3971
DI 08	8M9953390	TRMS	05	8M99531910	REPLACE V-V-A WITH -V-V-			134754 9	5 129370 9TIX6 3974	CBO6
DI 09										3975
DI 10	8M99531990	INTO DEPOSITI AREA								3976
DI 11	8M9953400	RCVS	01	8M9953410	CA -V-V- TRANSMITTER			134764 9	5 000000 0#0 3978	CBI1
DI 12	8M9953410	TRMS	05	8M9954300	GO TO CHK -V-V- RETENTIVITY			134764 1	135059 V051 3979	256DK17
DI 13	8M9953410	TR	00	8M9954300	GO TO CHK -V-V- RETENTIVITY			134769 1	135059 V051 3979	256DK17
DI 14	8M9953450	RCVS	01	6000000	- TO 6 RECOMPLEMENT AREA			134774 U	1 000000 00#0 3981	3980
DI 15	8M9953450	RCVS	01	6000000	RECOMPLEMENT ADDR					
DI 16	8M9953460	NOP	00	8M9953490	SECTION II SWITCH			134779 A	134794 U790 3983	D121
DI 17	8M9953460	NOP	00	8M9953490	SECTION II SWITCH			134779 A	134794 U790 3983	D121
DI 18	8M9931910	REPLACE -V-V- WITH V-V-A						134784 9	5 129370 9TIX6 3985	3984
DI 19	8M9931910	REPLACE -V-V- WITH V-V-A						134784 1	134799 U791 3986	CBO6
DI 20	8M9931910	REPLACE -V-V- WITH V-V-A						134784 1	134799 U791 3986	D122
DI 21	8M9953490	TMTS	05	8M9931940	REPLACE -V-V- WITH V-V-A			134794 9	5 129385 9TYE 3987	CBO9
DI 22	8M9953500	NOP	00	8M9953560	SECTION II SWITCH			134799 A	134824 U820 3988	D129
DI 23	8M9953560	LDA	00	8M995360	LOD TEST ADDR			134804 #	134704 U700 3989	DH35
DI 24	8M995360	CMP	00	8M9910830	TEST FOR 7999			134809 4	122792 2798 4000	AR33
DI 25	8M995360	CMP	00	8M9910830	TEST FOR 7999			134814 L	134854 U850 4001	D137
DI 26	8M995360	TR	00	8M9953590	SECTION II COMPLETE			134814 L	134854 U850 4001	D137
DI 27								134819 1	134839 U831 4002	D134
DI 28	8M9953560	LDA	00	8M9953260	LOD TEST ADDR			134824 #	134704 U700 4004	DH35
DI 29	8M9953560	CMP	00	8M9910830	TEST FOR 7999			134829 4	122792 2798 4006	DH35
DI 30	8M9953560	TR	00	8M9953800	SECTION II COMPLETE			134834 L	134909 U901 4007	DJ12
DI 31	8M9953800	TR	00	8M9953800	SECTION II COMPLETE			134834 L	134909 U901 4007	DJ12
DI 32								134839 #	128274 8270 4010	BX21
DI 33	8M9953590	LDA	00	8M9930900	000005	INCERASE COMMON TEST ADDR		134844 E	134704 U700 4011	DH35
DI 34	8M9953590	AM	00	8M9953260	INCERASE COMMON TEST ADDR			134844 I	134574 U570 4012	DH35
DI 35	8M9953590	SEL	00	8M0500	000500	0500 4014		134864 R	129130 9136 4015	BZ37
DI 36	8M9953590	SEL	00	8M9953050	SECTION II COMPLETE			134864 R	129130 9136 4015	BZ37

INDEX	TAG	OF	NU AT	OPERAND	PROGRAM BMU99	LOC	OP SU	ADDRESS	COMMENTS	REF
DJ 01										
DJ 02	8MU9953690	TRC	12	8MU9953690						
DJ 03	8MU9953690	TRC	11	8MU9953700						
DJ 04	8MU9953700	TAF	06	8MU9953730	PRINT TAB RESULTS IF 0916 ON	134884 1	2 130144 #1MD 4020	4019		
DJ 05	8MU9953700	TAF	06	8MU9953730	PRINT TAB RESULTS IF 0916 ON	134879 1	6 134894 UYRD 4020	4019		
DJ 06	8MU9953700	TAF	02	8MU99536000	REPEAT SECTION 10 IF 0912 ON	134884 1	2 130144 #1MD 4021	4020		
DJ 07	8MU9953700	TAF	00	8MU99536000	GO TO SECTION 11	134889 1	1 122551 25VA 4023	A009		
DJ 08	8MU9953730	RCS	01	8MU99083506001		134894 U	1 122551 25VA 4023	A009		
DJ 09	8MU9953730	RCS	01	8MU99083506001		134894 U	1 122551 25VA 4023	A009		
DJ 10	8MU9953710	TR	00	8MU9953710		134904 1	134884 U88D 4026	4025		
DJ 11	8MU9953710	TR	00	8MU9953710		134919 R	129135 913E 4029	B239		
DJ 12	8MU9953800	TAA	01	8MU9953850	SECTION II COMPLETE	134914 2	000500 0500 4028	4030		
DJ 13	8MU9953840	TMC	11	8MU9953840		134924 0	11 134929 URB1 4031	DJ17		
DJ 14	8MU9953840	TMC	12	8MU9953840		134924 0	12 134934 U13D 4032	DJ19		
DJ 15	8MU9953850	TAA	01	8MU9953850	SECTION II COMPLETE	134934 1	6 134944 UZMI 4034	4033		
DJ 16	8MU9953860	TAF	06	8MU9953880	PRINT TAB RESULTS IF 0916 ON	134934 I	2 130244 #2MD 4035	DJ22		
DJ 17	8MU9953860	TAF	02	8MU9953880	REPEAT SECTION 11 IF 0912 ON	134934 I	6 134944 UZMI 4034	4033		
DJ 18	8MU9953860	TAF	06	8MU9953880	GO TO SECTION 12	134944 I	130374 #37D 4036	C636		
DJ 19	8MU9953860	TAF	02	8MU9953880		134944 U	1 122551 25VA 4037	259A009		
DJ 20	8MU9953860	TAF	00	8MU99083506001		134949 U	1 122064 20WD 4038	AN20		
DJ 21	8MU9953860	TAF	06	8MU99083506001		134959 1	134939 U93I 4040	DJ20		
DJ 22	8MU9953860	TAF	00	8MU9953860		134959 1	134939 U93I 4040	DJ24		
DJ 23	8MU9953860	RCS	01	8MU99083506001		134949 U	1 122551 25VA 4037	259A009		
DJ 24	8MU9953860	TAF	00	8MU9953860		134949 U	1 122064 20WD 4038	AN20		
DJ 25	8MU9953860	TAF	00	8MU9953860		134949 U	1 122064 20WD 4038	AN20		
DJ 26	8MU9954000	LDA	00	8MU9953260	- TO 6 COMPLEMENT AREA	134964 *	134964 *	DJ26		
DJ 27	8MU9954000	LDA	00	8MU9953260	- LDD TEST ADDR	134964 *	134964 *	DJ27		
DJ 28	8MU9954050	SUB	00	8MU9915250	REDUCE BY 4	134969 P	122685 268E 4043	DH35		
DJ 29	8MU9954050	SUB	00	8MU9915250	SET COMPLEMENT ADDR	134974 *	134989 U98I 4044	AR02		
DJ 30	8MU9954110	ULR	00	8MU9954110	SET CA-V-V TRANSMITTER	134979 *	135019 V01I 4045	DJ34		
DJ 31	8MU9954150	ULR	00	8MU9954150	SET RECOMPLEMENT ADDR	134984 *	135029 V02I 4046	DK05		
DJ 32										
DJ 33	8MU9954050	RCS	01	800000	COMPLEMENT ADDRESS	134987 U	1 000000 00#0 4049	4048		
DJ 34	8MU9954050	RCS	01	8M9954090	SECTION II SWITCH	134994 A	135009 V00I 4051	DK01		
DJ 35	8MU9954060	NOP	00	8M9954090		134994 A	135009 V00I 4051	DK02		
DJ 36	8MU9954060	TITLE	05	8M9931910	REPLACE -V-V- WITH V-V-	134999 9	5 129370 9T6 4053	4052		
DJ 37	8M9931910	TR	00	8M9954100		135004 1	135014 VOID 4054	CB06		
DJ 38	8M9954100	TR	00							

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8M99	LOC OP SU	ADDRESS	COMMENTS	REF	PGLIN SER
DK 01	BMU995409C	TMS	05	8M9931940	REPLACE -A-V- WITH V-V-	135009 9	5 129385 9TYE 4055	260CB09	4056	
DK 02										
DK 03	BMU9954100	RCVS	01	8M9931990	INTO DEPOSIT AREA	135014 U	1 129395 93ZE 4058	C057	4057	
DK 04	BMU9954100	RCVS	05	8M9931990	CA V-V-V TRANSMITTER	135019 9	5 000000 0#0 4059	DK05	4059	
DK 05	BMU9954110	TMS	05	8M9931990	GO TO CHK V-V-V RETENTIVITY	135024 1	135244 V24D 4060	DL18	4061	
DK 06	BMU9954110	TR	00	8M99355000	6 TO - RECOMPLEMENT AREA	135024 1	135244 V24D 4060	DK06	4061	
DK 07	BMU9954150	RCVS	01	8M9931950	RECOMPLEMENT AREA	135029 U	1 000000 00#0 4062	DK07	4062	
DK 08	BMU9954150	NOP	00	8M9954190	SECTION II SWITCH	135034 A	135049 V04I 4064	DK10	4063	
DK 09	BMU9954160	NOP	00	8M9954190	TITLE			DK10	4063	
DK 10	BMU9954160	NOP	00	8M9954190	TITLE			DK10	4063	
DK 11	BMU9954190	TMS	05	8M9931940	REPLACE V-V-V WITH -V-V-	135039 9	5 129385 9TYE 4066	DK12	4065	
DK 12	BMU9954190	TMS	05	8M9931940	REPLACE V-V-V WITH -V-V-	135044 I	134799 U79I 4067	DK09	4065	
DK 13	BMU9954190	TR	00	8M9931940	REPLACE V-V-V WITH -V-V-	135049 9	5 129385 9TYE 4066	DK12	4065	
DK 14	BMU9954190	TMS	05	8M9931910	REPLACE V-V-V WITH -V-V-	135054 1	134799 U79I 4069	DK06	4065	
DK 15	BMU9954190	TR	00	8M9931910	REPLACE V-V-V WITH -V-V-	135049 9	5 129370 9Txe 4068	DK15	4074	
DK 16	CHAR - RETENTIVITY CHK-A101010							DK21	4075	
DK 17	BMU9954300	LDA	00	8M99353350	LDA 6 TO - COMPLEMENT ADDR	135059 #	134734 U73D 4071	DI02	4070	
DK 18	BMU9954300	ULa	00	8M99354400	SET MINUS 0 CHK ADDR	135064 *	135089 V08I 4072	DK25	4070	
DK 19	BMU9954300	RAD	02	8M99310530	5	135069 H	2 122686 260F 4073	261AR03	4070	
DK 20								DK20	4074	
DK 21	BMU9954340	SET	00	8M99007	TITLE			DK21	4075	
DK 22	BMU9954340	SET	00	8M99007	TITLE			DK22	4075	
DK 23	BMU9912254	LDD	00	8M9912254	-----	135079 8	123482 348B 4077	AU04	4076	
DK 24	BMU9954400	RCVs	01	8M9910940	RESET BIT BREAKDOWN	135084 7	122854 285D 4078	AS06	4076	
DK 25	BMU9954400	RCVs	01	8M99000	MINUS 0 CHECK ADDRESS	135089 U	1 000000 00#0 4079	DK24	4076	
DK 26	BMU9954400	TZB	01	8M9954430	TEST FOR EXPECTED NO 1 BIT	135094 *	1 135104 V1#D 4080	DK28	4076	
DK 27	BMU9954400	UNL	09	8M9910940	----P----	135099 7	9 122854 285D 4081	DK28	4076	
DK 28	BMU9954430	TZB	02	8M9954450	TEST FOR NO 2 BIT	135104 *	2 135114 V1#D 4082	DK30	4076	
DK 29	BMU9954430	TZB	00	8M9954460	TEST FOR NO 2 BIT	135109 1	1 135119 V1#I 4083	DK31	4076	
DK 30	BMU9954450	UNL	08	8M9910940-C01	----D----	135114 7	8 122853 285C 4084	AS06	4076	
DK 31	BMU9954460	TZB	04	8M9954480	TEST FOR EXPECTED NO 4 BIT	135119 *	3 135129 V1#I 4085	DK33	4076	
DK 32	BMU9954480	UNL	09	8M9910940-002	----P----	135124 7	9 122852 285B 4086	AS06	4076	
DK 33	BMU9954480	TZB	08	8M9954500	TEST FOR NO 8 BIT	135129 *	4 135139 V3#I 4087	262DK35	4076	
DK 34	BMU9954480	TZB	00	8M9954510	TEST FOR NO C BIT	135134 1	135144 V1#D 4088	DK36	4076	
DK 35	BMU9954500	UNL	08	8M9910940-C03	----D----	135139 7	8 122851 285A 4089	AS06	4076	
DK 36	BMU9954510	TZB	04	8M9954530	TEST FOR EXPECTED NO A BIT	135144 *	5 135154 V1#D 4100	DK38	4076	
DK 37	BMU9954530	UNL	09	8M9910940-004	----P----	135149 7	9 122850 285E 4100	AS06	4076	
DK 38	BMU9954530	TZB	08	8M9954550	TEST FOR NO B BIT	135154 *	6 135164 V1#D 4102	DK40	4076	
DK 39	BMU9954530	TR	00	8M9954560	TEST FOR NO B BIT	135159 1	135169 V1#I 4103	DK41	4076	
DK 40	BMU9954550	UNL	08	8M9910940-005	----D----	135164 7	8 122849 284I 4104	AS06	4076	
DK 41	BMU9954560	TZB	04	8M9954600	TEST FOR EXPECTED NO C BIT	135169 *	7 135184 V1#D 4105	DL03	4076	

INDEX	TAG	OP	NU AT	PROGRAM	OPERAND	LOC OP SU	ADDRESS	PGLIN SER REF
DL 01		UNL	09	8MU9910940-006	P-----			
DL 02		TR	00	8MU9954640				
DL 03	8MU9954600	SET	00	000007	0007 4108	135184 B	000007 200D 4107	AS06
DL 04	8MU9954600	LDD	00	8MU9910940	LDD BIT BREAKDOWN PART OF T-O	135184 4	123482 348B 4110	263AS06
DL 05	8MU9954600	CMP	00	8MU9912254	TEST FOR EQUAL TO	135194 4	122854 285D 4109	AU04
DL 06	8MU9954600	TR	00	8MU9954670		135219 L	135214 V21D 4111	DL10
DL 07	8MU9954640	TITLE	01	8MU99554001	ERROR - IF NOT EQUAL	135204 U	1 135576 V5XF 4113	DN16
DL 08	8MU9954640	RVS	01	8MU99554001		135204 U	1 135434 V4TD 4114	DML7
DL 09	8MU9954640	LD	02	8MU9910510	REDUCE 5 CTR BY 1	135214 P	2 122682 260B 4115	A042
DL 10	8MU9954670	SUB	02	8MU9910510	REDUCE 5 CTR BY 1	135219 N	2 134774 U7PD 4116	D115
DL 11	8MU9954670	TRZ	02	8MU9953450				
DL 12	TITLE							
DL 13	LDA	00	8MU9954400	LDD MOCA	SET VCA	135224 #	135089 V08I 4118	DK25
DL 14	LDA	00	8MU9954400	LDD MOCA	INCRASE VCA BY 000001	135234 *	135229 * 135274 V27D 4119	DL26
DL 15	ULA	00	8MU9955100	SET VCA	SET VCA	135234 0	1 135274 V2XD 4120	DL26
DL 16	AMA	01	8MU9955100	INCRASE VCA BY 000001	SET VCA	135239 1	135259 V25I 4121	DL23
DL 17	TITLE							
DL 18	8MU9955000	LDA	00	8MU9954050	CHAR V RETENTIONITY CHK-1010101	135244 *	134989 U98I 4123	DK22
DL 19	8MU9955000	ULA	00	8MU9954050	LDD - TO 6 COMPLEMENT ADDR	135244 #	135244 H 2 122686 260F 4125	264D26
DL 20	8MU9955000	RAD	02	8MU9910530	SET V CHK ADDR	135249 *	135274 V27D 4124	264D26
DL 21	TITLE							
DL 22	8MU9955040	SET	00	000007	4127			
DL 23	8MU9955040	SET	00	000007	0007 4128	135259 8	000007 0007 4128	AU04
DL 24	8MU9912254	LDD	00	8MU9910940	RESET BIT BREAKDOWN	135264 8	123482 348B 4129	AU04
DL 25	8MU9955100	ULA	00	8MU9910940	V CHECK ADDRESS	135269 7	122854 285D 4130	AS06
DL 26	8MU9955100	RVS	01	8MU9955130	RESET BIT BREAKDOWN	135274 U	1 000000 00#0 4131	DL29
DL 27	8MU9955100	TRB	01	8MU9955130	TEST FOR NO 1 BIT	135279 *	1 135289 V2YI 4132	DL29
DL 28	8MU9955100	TR	00	8MU9955140	TEST FOR NO 1 BIT	135284 1	135294 V29D 4133	DL30
DL 29	8MU9955130	UNL	08	8MU9910940	----D----	135289 7	8 122854 205D 4134	AS06
DL 30	8MU9955140	UNL	02	8MU9955160	TEST FOR EXPECTED NO 2 BIT	135294 7	2 135304 V3-0 4135	DL32
DL 31	8MU9955140	UNL	09	8MU9910940-001	----P-	135299 7	9 122853 20VC 4136	AS06
DL 32	8MU9955160	UNL	04	8MU9955180	TEST FOR NO 4 BIT	135299 *	4 135329 VT21 4140	DL37
DL 33	8MU9955160	TRB	00	8MU9955190	TEST FOR NO 4 BIT	135319	5 135339 VT11 4142	AS06
DL 34	8MU9955180	UNL	08	8MU9910940-002	----D----	135314 7	8 122852 205B 4139	AS06
DL 35	8MU9955190	TRB	08	8MU9910940-003	TEST FOR EXPECTED NO 8 BIT	135314	9 122851 20VA 4143	DL39
DL 36	8MU9955190	UNL	09	8MU9955230	TEST FOR NO A BIT	135324	7 9 122851 20VA 4143	AS06
DL 37	8MU9955210	TRB	08	8MU9910940-003	TEST FOR EXPECTED NO 8 BIT	135324	7 9 122851 20VA 4143	DL39
DL 38	8MU9955210	TR	00	8MU9955240	TEST FOR NO A BIT	135329	5 135339 VT11 4142	AS06
DL 39	8MU9955230	UNL	08	8MU9910940-004	----D----	135334 1	135334 V34D 4143	DL40
DL 40	8MU9955240	TRB	08	8MU9955260	TEST FOR EXPECTED NO 8 BIT	135334	6 135354 VTND 4145	AS06
DL 41	8MU9955260	UNL	09	8MU9910940-005	----P-	135349 7	8 122850 205G 4144	AS06
DL 42	8MU9955260	TRB	00	8MU9955280	TEST FOR NO C BIT	135349 *	7 135364 VT3D 4147	AS06
DL 43	8MU9955280	TR	00	8MU9955300		135359 1	135374 V37D 4148	DM03

INDEX TAG OP NU AT OPERAND PROGRAM SMU99 COMMENTS LOC OP SU ADDRESS GLIN SER REF

DM 01 SMU9955280 UNL 08 SMU9910940-006 D-----

135364 7 8 122848 204H 4149 AS06  
135369 1 135394 V39D 4150 2660M08

DM 03 SMU9955300 SET 00 000007 0007 4151  
135374 B 000007 0007 4151

DM 04 L0D 00 8MU9910940 LOD BIT BREAKDOWN PART OF T-O  
135379 8 122854 285D 4152 AS06  
135384 4 123482 348B 4153 AU04  
135389 L 135404 V40D 4154 DM10

DM 05 CMP 00 8MU9912254 TEST FOR EQUAL TO -----  
135379 8 122854 285D 4152 AS06  
135384 4 123482 348B 4153 AU04  
135389 L 135404 V40D 4154 DM10

DM 06 TRE 00 8MU9955370 ERROR - IF NOT EQUAL  
135395 4155  
135399 1 135479 V44X1 4157 DM29

DM 07 TSL 01 8MU99558408001  
135394 U 1 135576 V5XF 4156 DN16  
135399 1 135479 V44X1 4157 DM29

DM 08 RCVS 01 8MU9955340 RCVS 01  
135404 P 2 122682 260B 4158 AQ42  
135409 N 2 135029 VOKI 4159 DK08

DM 09 SUB 02 8MU9910510 REDUCE 5 CTR BY 1  
135404 P 2 122682 260B 4158 AQ42  
135409 N 2 135029 VOKI 4159 DK08

DM 10 SUB 02 8MU9910510 REDUCE 5 CTR BY 1  
135404 P 2 122682 260B 4158 AQ42  
135409 N 2 135029 VOKI 4159 DK08

DM 11 TRZ 02 8MU9954150  
135404 P 2 122682 260B 4158 AQ42  
135409 N 2 135029 VOKI 4159 DK08

DM 12 TSL 01 8MU9955100 LOD VCA  
135414 # 135274 V27D 4161 DL26  
135419 \* 135089 V08I 4162 DK25  
135424 E 1 135089 V0YI 4163 DK25  
135429 1 135074 V07D 4164 267DK22

DM 13 TSL 01 8MU9954400 SET M0CA  
135414 # 135274 V27D 4161 DL26  
135419 \* 135089 V08I 4162 DK25  
135424 E 1 135089 V0YI 4163 DK25  
135429 1 135074 V07D 4164 267DK22

DM 14 TSL 01 8MU9954400 SET M0CA  
135419 \* 135089 V08I 4162 DK25  
135424 E 1 135089 V0YI 4163 DK25  
135429 1 135074 V07D 4164 267DK22

DM 15 TSL 01 8MU9954400 INCRASE M0CA BY 000001  
135424 E 1 135089 V0YI 4162 DK25  
135429 1 135074 V07D 4164 267DK22

DM 16 TSL 01 8MU9954400 INCRASE M0CA BY 000001  
135424 E 1 135089 V0YI 4163 DK25  
135429 1 135074 V07D 4164 267DK22

DM 17 RCVS 01 8MU99109206001  
135434 U 1 122842 28UB 4165 AS04  
135439 9 8 122828 202H 4166 AS04

DM 18 RCVS 01 8MU99109206001  
135434 U 1 122842 28UB 4165 AS04  
135439 9 8 122828 202H 4166 AS04

DM 19 TSL 03 000002 SET S03  
135444 B 3 000002 0062 4168 AR47  
135449 9 3 122829 288I 4169 AR47

DM 20 TSL 03 000002 SET S03  
135444 B 3 000002 0062 4168 AR47  
135449 9 3 122829 288I 4169 AR47

DM 21 TSL 03 000002 SET S03  
135444 B 3 000002 0062 4168 AR47  
135449 9 3 122829 288I 4169 AR47

DM 22 TSL 03 000002 SET S03  
135454 # 135089 V08I 4175 DM40  
135459 \* 135089 V0YI 4176 AS02

DM 23 TSL 03 000002 SET S03  
135454 # 135089 V08I 4175 DM40  
135459 \* 135089 V0YI 4176 AS02

DM 24 TSL 03 000002 SET S03  
135454 # 135089 V08I 4175 DM40  
135459 \* 135089 V0YI 4176 AS02

DM 25 TSL 03 000002 SET S03  
135464 # 135089 V08I 4175 DM40  
135464 \* 135089 V0YI 4176 AS02

DM 26 TSL 03 000002 SET S03  
135469 7 122839 283I 4174  
135474 1 135519 V51I 4176 AS02

DM 27 TSL 03 000002 SET S03  
135469 7 122839 283I 4174  
135474 1 135519 V51I 4176 AS02

DM 28 TSL 03 000002 SET S03  
135474 1 135519 V51I 4176 AS02

DM 29 TSL 03 000002 SET S03  
135479 U 1 122842 28UB 4177 AS04

DM 30 TSL 03 000002 SET S03  
135479 U 1 122842 28UB 4177 AS04

DM 31 TSL 03 000002 SET S03  
135489 B 3 000002 0062 4180 AR47  
135494 9 3 122829 288I 4181 AR47

DM 32 TSL 03 000002 SET S03  
135489 B 3 000002 0062 4180 AR47  
135494 9 3 122829 288I 4181 AR47

DM 33 TSL 03 000002 SET S03  
135489 B 3 000002 0062 4180 AR47  
135494 9 3 122829 288I 4181 AR47

DM 34 TSL 03 000002 SET S03  
135499 # 135274 V27D 4183  
135504 \* 135509 V50I 4184 DM37

DM 35 TSL 03 000002 SET S03  
135499 # 135274 V27D 4183  
135504 \* 135509 V50I 4184 DM37

DM 36 TSL 03 000002 SET S03  
135514 7 122839 283I 4187  
135519 I 135554 V50D 4188 AS02

DM 37 TSL 03 000002 SET S03  
135514 7 122839 283I 4187  
135519 I 135554 V50D 4188 AS02

DM 38 TSL 03 000002 SET S03  
135514 7 122839 283I 4187  
135519 I 135554 V50D 4188 AS02

DM 39 TSL 03 000002 SET S03  
135514 7 122839 283I 4187  
135519 I 135554 V50D 4188 AS02

DM 40 TSL 03 000002 SET S03  
135514 7 122839 283I 4187  
135519 I 135554 V50D 4188 AS02

DM 41 TSL 03 000002 SET S03  
135524 2 000500 0500 4189

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8M999	COMMENTS	LOC OP SU	ADDRESS	PGLIN SER REF	
DN 01		WR	00	8M99910900	000000 X..X	-----	135529 R	122834 283D 4200	A502	
DN 02		TITLE		8M99955740	12	135534 0 II 135539 VNCl 4202	135539 O II 135539 VNCl 4202	4201	DNO4	
DN 03		TMC	11	8M99955740		135534 I 5 135579 VVXI 4205	135539 O II 135539 VNCl 4202	4201	DNO4	
DN 04		8M99955740	TRC	12	8M99955750	135534 0 II 135539 VNCl 4202	135539 O II 135539 VNCl 4202	4201	DNO4	
DN 05		TITLE		8M99955750 TAE	05	135544 I 5 135579 VVXI 4205	135544 I 5 135579 VVXI 4205	4204	DNI6	
DN 06		8M99955750	TAE	05	8M99916750G001	BYPASS TABULATION IF 0915 ON	135549 U I 125661 56WA 4206	135549 U I 125661 56WA 4206	2698F26	
DN 07		RCVS	01	8M99916750G001	TSI	135549 I 5 135579 VVXI 4205	135549 U I 125661 56WA 4206	135549 U I 125661 56WA 4206	DNI6	
DN 08		RCS	01	8M99916000	TSI	135554 I 1 125379 53XI 4207	135554 I 1 125379 53XI 4207	135554 I 1 125379 53XI 4207	2698F26	
DN 09		TITLE		8M99926600G001	TSI	135559 U I 127641 76UA 4209	135559 U I 127641 76UA 4209	4208	B519	
DN 10		RCVS	01	8M99920170	TSI	135564 I 1 125669 56WI 4210	135564 I 1 125669 56WI 4210	4210	B519	
DN 11		TITLE		8M99926600G001	TSI	135569 U I 137104 X1xD 4213	135569 U I 137104 X1xD 4213	4211	DW35	
DN 12		RCS	01	8M999624206001	SET SEGTAB RETURN	135569 I 1 137531 X5TA 4212	135569 I 1 137531 X5TA 4212	4211	DZ03	
DN 13		TITLE		8M99961000	TSI	135574 I 1 137104 X1xD 4213	135574 I 1 137104 X1xD 4213	4211	DW35	
DN 14		RCS	01	8M99961000	SET SEGTAB RETURN	135574 U I 137531 X5TA 4212	135574 U I 137531 X5TA 4212	4211	DZ03	
DN 15		TITLE		8M99954670	TR	135579 I 1 135214 V21D 4215	135579 I 1 135214 V21D 4215	4214	DL10	
DN 16		8M99955840	TR	00	8M99954670	-----	135579 I 1 135214 V21D 4215	135579 I 1 135214 V21D 4215	4214	
DN 17		TITLE		8M99954670	-----	135579 I 1 135214 V21D 4215	135579 I 1 135214 V21D 4215	4214	DL10	
DN 18		8M99956000	LDA	00	8M99910760	0004	135584 # 122749 274I 4217	135584 # 122749 274I 4217	4216	AR24
DN 19		8M99956050	LDA	00	8M99956200	0004	135589 * 135724 V72D 4218	135589 * 135724 V72D 4218	4216	AR24
DN 20		8M99956050	NOP	00	8M99956130	0004	135604 * 4 135614 VV1D 4222	135604 * 4 135614 VV1D 4222	4220	DN26
DN 21		TITLE		8M99956306001	DETERMINE MEMORY HALF	135599 U I 135721 V7SA 4221	135599 U I 135721 V7SA 4221	4220	DN26	
DN 22		RCS	01	8M99956306001	DETERMINE MEMORY HALF	135599 U I 135721 V7SA 4221	135599 U I 135721 V7SA 4221	4220	DN26	
DN 23		TZB	8	8M99956130	-----	135604 * 4 135614 VV1D 4222	135604 * 4 135614 VV1D 4222	4220	DN26	
DN 24		TZB	8	8M99956130	-----	135604 * 4 135614 VV1D 4222	135604 * 4 135614 VV1D 4222	4220	DN26	
DN 25		TITLE		8M99956130	RCVS	135609 * 2 135694 V6RD 4223	135609 * 2 135694 V6RD 4223	4224	DN34	
DN 26		8M99956130	RCVS	01	8M99956306002	-----	135614 U I 135722 V7SB 4225	135614 U I 135722 V7SB 4225	4224	DN34
DN 27		TZB	8	8M99956160	-----	135619 * 4 135629 VV2I 4226	135619 * 4 135629 VV2I 4226	4224	DN34	
DN 28		TZB	8	8M99956160	-----	135624 * 2 135694 V6RD 4227	135624 * 2 135694 V6RD 4227	4224	DN34	
DN 29		TITLE		8M99956160	RCVS	135629 U I 135723 V7SC 4229	135629 U I 135723 V7SC 4229	4228	DN34	
DN 30		8M99956160	RCVS	01	8M99956306003	-----	135634 * 4 135709 VAOI 4230	135634 * 4 135709 VAOI 4230	4228	DN34
DN 31		TZB	8	8M99956300	-----	135639 * 2 135709 V7OI 4231	135639 * 2 135709 V7OI 4231	4228	DN34	
DN 32		TZB	8	8M99956300	-----	135634 * 4 135709 VAOI 4230	135634 * 4 135709 VAOI 4230	4228	DN34	
DN 33		TR	00	8M99956330	-----	135639 * 2 135709 V7OI 4231	135639 * 2 135709 V7OI 4231	4228	DN34	
DN 34		8M99956200	RCVS	01	8M99956306001	-----	135649 U I 135721 V7SA 4233	135649 U I 135721 V7SA 4233	4236	DN38
DN 35		TZB	8	8M99956230	-----	135654 * 4 135709 V7OI 4232	135654 * 4 135709 V7OI 4232	4236	DN38	
DN 36		TZB	8	8M99956230	-----	135659 * 2 135709 V7OI 4233	135659 * 2 135709 V7OI 4233	4236	DN38	
DN 37		TITLE		8M99956230	RCVS	135664 U I 135722 V7SB 4237	135664 U I 135722 V7SB 4237	4236	DN38	
DN 38		TZB	8	8M99956260	-----	135669 * 4 135709 VWTI 4238	135669 * 4 135709 VWTI 4238	4236	DN38	
DN 39		TZB	8	8M99956330	-----	135674 * 2 135709 V7-I 4239	135674 * 2 135709 V7-I 4239	4236	DN38	
DN 40		TZB	8	8M99956330	-----	13569 * 4 135709 V7-I 4239	13569 * 4 135709 V7-I 4239	4236	DN38	
DN 41		TITLE		8M99956330	RCVS	135709 V7-I 4239	135709 V7-I 4239	4240	DN38	

INDEX	TAG	OP	NU AT	OPRAND	PROGRAM	SMU99	-	-	COMMENTS	LOC	OP SU	ADDRESS	PGLIN	SER REF
DO 01	8MU9956260	RCVS	01	8MU99563606003										
DO 02	8MU9956260	TZB	08	8MU9956300	--66	IF 8000-800-80 DOWN			135684 • 4 135694 VWD9 4242	D005				
DO 03	8MU9956260	TZB	02	8MU9956330	--66	IF 80 UP & 20 DOWN			135679 • 2 135709 V7-I 4243	D009				
DO 04	8MU9956300	RCVS	01	8MU99563606003	--66	TEST FOR ODD OR EVEN TENS ADDR			135694 U 1 135723 VTS C 4244	D012				
DO 05	8MU9956300	RCVS	01	8MU99563606003	--66	EVEN			135699 • 1 135723 VTS C 4245	D012				
DO 06	8MU9956300	TZB	01	8MU9956700	EVEN				135704 U 1 135729 VTS I 4246	D012				
DO 07	8MU9956300	TR	00	8MU9956400	MUST BE ODD				135704 I 135729 V7I 4247	D012				
DO 08	8MU9956330	RCVS	01	8MU99563606003	--66--				135709 U 1 135723 VTS C 4249	D012				
DO 09	8MU9956330	RCVS	01	8MU99563606003	--66--				135714 • 1 135729 VTS I 4250	D012				
DO 10	8MU9956330	TZB	01	8MU9956400	EVEN				135714 I 135724 V8SD 4251	D014				
DO 11	8MU9956360	LOD	00	8MU9956360	COMMON TEST ADDR				135724 # 135724 V7D 4254	D012				
DO 12	8MU9956360	LOD	00	8MU9956360	COMMON TEST ADDR				135729 # 135729 V7D 4254	D012				
DO 13	8MU9956400	LDA	00	8MU9956360	COMMON TEST ADDR				135729 # 135729 V7D 4254	D012				
DO 14	8MU9956400	LDA	00	8MU9956450	REDUCE BY 4				135729 # 135729 V7D 4254	D012				
DO 15	8MU9956450	SUB	00	8MU9910520	REDUCE BY 4				135734 P 122685 268E 4255	D022				
DO 16	8MU9956450	UL	00	8MU9956510	SET COMPLEMENT ADDR				135734 P 122685 268E 4255	D022				
DO 17	8MU9956450	UL	00	8MU9956510	SET CA EZCODE TRANSMITTER				135734 * 135754 V7D 4256	D021				
DO 18	8MU9956450	UL	00	8MU9956550	SET RECOMPLEMENT ADDR				135744 * 135784 V7D 4257	D021				
DO 19	8MU9956450	UL	00	8MU9956550	SET RECOMPLEMENT ADDR				135749 * 135794 V7D 4258	D031				
DO 20	8MU9956450	RCVS	01	8MU99000	COMPLEMENT ADDR				135754 U 1 000000 00#0 4261	D060				
DO 21	8MU9956450	RCVS	01	8MU99000	COMPLEMENT ADDR				135754 U 1 000000 00#0 4261	D060				
DO 22	8MU9956460	NOP	00	8MU9956490	SECTION 13 SWITCH				135759 A 135774 V7D 4263	D027				
DO 23	8MU9956460	NOP	00	8MU9956490	SECTION 13 SWITCH				135759 A 135774 V7D 4263	D027				
DO 24	8MU9956490	TR	05	8MU9931940	REPLACE COE WITH EZCODE				135764 9 5 129385 9TVE 4265	D09				
DO 25	8MU9956490	TR	00	8MU9956500	REPLACE COE WITH EZCODE				135769 1 135779 V7I 4266	CBO9				
DO 26	8MU9956490	TR	00	8MU9956500	REPLACE COE WITH EZCODE				135774 9 5 129370 9TVE 4267	CBO6				
DO 27	8MU9956490	MTS	05	8MU9931910	REPLACE COE WITH EZCODE				135774 9 5 129370 9TVE 4267	CBO6				
DO 28	8MU9956490	TITLE												
DO 29	8MU9956500	RCVS	01	8MU9931990	INTO DEPOSIT AREA									
DO 30	8MU9956500	RCVS	05	8MU9931990	INTO DEPOSIT AREA									
DO 31	8MU9956510	MTS	05	8MU9931990	CA EZCODE TRANSMITTER									
DO 32	8MU9956510	TR	00	8MU9957500	GO TO CHK EZCODE RETENTIVITY									
DO 33	8MU9956550	RCVS	01	8MU9956550	- TO 6 RECOMPLEMENT AREA									
DO 34	8MU9956550	RCVS	01	8MU9956550	- TO 6 RECOMPLEMENT AREA									
DO 35	8MU9956560	NOP	00	8MU9956590	SECTION 13 SWITCH									
DO 36	8MU9956560	NOP	00	8MU9956590	SECTION 13 SWITCH									
DO 37	8MU9956560	TR	05	8MU9931910	REPLACE EZCODE WITH COE									
DO 38	8MU9956560	TR	00	8MU9931910	REPLACE EZCODE WITH COE									
DO 39	8MU9956560	TR	00	8MU9931910	REPLACE EZCODE WITH COE									

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INDEX	TAG	OP	NU AT	OP RAND	PROGRAM 8MU99	LOC OP SU	ADDRESS	PGLIN SER REF
DP 01	8MU9956590	MTS	05	8MU9931940	REPLACE EZCOE WITH COEQZC	135814 9	5 129385 9TYE 4280	C809 DP31
DP 02	8MU9956590	TR	00	8MU9931940	REPLACE EZCOE WITH COEQZC	135819 1	135914 V91D 4281	C809
DP 03	8MU9956700	LDA	00	8MU9931940	- TO 6 COMPLEMENT AREA	135824 #	135724 V72D 4283	D012
DP 04	8MU9956700	SUB	00	8MU9910520	REDUCE BY 4	135829 P	122685 268E 4284	ARO2 DP21
DP 05	8MU9956750	ULA	00	8MU9956750	SET COMPLEMENT ADDR	135834 *	135849 V84I 4285	ARO2 DP21
DP 06	8MU9956810	ULA	00	8MU9956810	SET CA COEQZC TRANSMITTER	135839 *	135879 V87I 4286	D021 DP21
DP 07	8MU9956810	ULA	00	8MU9956850	SET RECOMPLEMENT ADDR	135844 *	135889 V88I 4287	D024 DP24
DP 08	8MU9956850	ULA	00	8MU9956850	SET CA COEQZC TRANSMITTER	135879 V87I 4286	135889 V88I 4287	D024 DP24
DP 09	8MU9956750	RCVS	01	6000000	COMPLEMENT ADDRESS	135849 U	1 000000 00#0 4300	4289
DP 10	8MU9956750	NOP	00	8MU9956790	SECTION 13 SWITCH	135854 A	135869 V86I 4302	DPL7
DP 11	8MU9956750	RCVS	01	6000000	COMPLEMENT ADDRESS	135849 U	1 000000 00#0 4300	4289
DP 12	8MU9956760	NOP	00	8MU9956790	SECTION 13 SWITCH	135854 A	135869 V86I 4302	DPL7
DP 13	8MU9956760	TR	05	8MU9931940	REPLACE EZCOE WITH COEQZC	135859 9	5 129370 9TYE 4304	4303 C806
DP 14	8MU9956760	TR	05	8MU9931940	REPLACE EZCOE WITH COEQZC	135864 1	135874 V87D 4305	4303 C806
DP 15	8MU9956800	RCVS	01	8MU9931990	INTO DEPOSIT AREA	135874 U	1 129395 932E 4309	4308 C811
DP 16	8MU9956800	RCVS	01	8MU9931990	INTO DEPOSIT AREA	135879 9	5 000000 0#0#0 4310	4308 C811
DP 17	8MU9956850	RCVS	01	6 TO - RECOMPLEMENT AREA	6000000	135889 U	1 000000 00#0 4313	4312 DP30
DP 18	8MU9956860	NOP	00	8MU9956890	SECTION 13 SWITCH	135894 A	135909 V90I 4315	4314 DP30
DP 19	8MU9956860	TR	05	8MU9931940	REPLACE EZCOE WITH COEQZC	135894 U	1 000000 00#0 4313	4312 DP24
DP 20	8MU9956880	RCVS	01	8MU9931990	INTO DEPOSIT AREA	135874 U	1 129395 932E 4309	4308 C811
DP 21	8MU9956810	MTS	05	8MU9931990	INTO DEPOSIT AREA	135879 9	5 000000 0#0#0 4310	4308 C811
DP 22	8MU9956810	TR	00	8MU9957600	GO TO CHK COEQZC RETENTIVITY	135884 1	136114 W11D 4311	DR07
DP 23	8MU9956850	RCVS	01	6 TO - RECOMPLEMENT AREA	6000000	135889 U	1 000000 00#0 4313	4312 DP30
DP 24	8MU9956850	RCVS	01	8MU9957600	GO TO CHK COEQZC RETENTIVITY	135884 1	136114 W11D 4311	DR07
DP 25	8MU9956860	TR	05	8MU9931940	RECOMPLEMENT ADDRESS	135889 U	1 000000 00#0 4313	4312 DP30
DP 26	8MU9956860	TITLE	00	8MU9956890	SECTION 13 SWITCH	135894 A	135909 V90I 4315	4314 DP30
DP 27	8MU9956860	TITLE	05	8MU9931940	REPLACE COEQZC WITH EZCOE	135899 9	5 129385 9TYE 4317	4316 CB09
DP 28	8MU9956860	TITLE	05	8MU9931940	REPLACE COEQZC WITH EZCOE	135899 9	5 129385 9TYE 4317	4316 CB09
DP 29	8MU9956860	TR	00	8MU9957000	REPLACE COEQZC WITH EZCOE	135904 1	135914 V91D 4318	4316 CB09
DP 30	8MU9956890	MTS	05	8MU9931910	REPLACE COEQZC WITH EZCOE	135909 9	5 129370 9TYE 4319	275CB06 DP38
DP 31	8MU9957000	NOP	00	8MU9957090	SECTION 13 SWITCH	135914 A	135939 V93I 4320	275CB06 DP38
DP 32	8MU9957000	LDA	00	8MU9957090	SECTION 12 COMPLETE	135924 4	122729 279D 4321	DO12 AR33
DP 33	8MU9957000	LDA	00	8MU9957150	TEST FOR 79999	135924 L	135969 V96I 4323	DO07 D007
DP 34	8MU9957000	TR	00	8MU9957120	SECTION 12 COMPLETE	135934 1	135954 V95D 4324	DO04
DP 35	8MU9957000	TR	00	8MU9957120	TEST FOR 79999	135939 #	135724 V72D 4327	DO12 AR33
DP 36	8MU9957000	TITLE	00	8MU9956360	LOAD CTA	135944 4	122729 279B 4328	DO12 AR33
DP 37	8MU9957090	TITLE	00	8MU9956360	LOAD CTA	135939 #	135724 V72D 4327	DO12 AR33

INDEX	TAG	OP	NU AT	OPERRAND	PROGRAM 8MU99	COMMENTS	LOC OP SU	ADDRESSES	PGLIN SER REF
00 01		TR E	00	8MU9957300	<u>SECTION 13 COMPLETE</u>		135949 L	136024 W02D 4329	D021
00 02							4330		
00 03							4331		
00 04	8MU9957120	LDA	00	8MU9930900	000005	INCREMENT COMMON TEST ADDR	128274 827D 4332	135954 #	BX21 D012
00 05		AAM	00	8MU9956360			135724 V72D 4333	135959 E	D012 BX21
00 06		TR	00	8MU9956050			135524 V59D 4334	135964 1	DN20
00 07	8MU9957150	TAA	01	8MU9957200	SEL 00	000500	135954 #	135969 I	276D014
00 08							135974 2	135994 V92D 4335	D009500 0500 4336
00 09		WR	00	8MU9931620		<u>SECTION 12 COMPLETE</u>	135979 R	129140 9146 4337	BZ41
00 10							4338		
00 11	8MU9957190	TMC	11	8MU9957190			135984 0 11	135989 VRHI 4339	D012
00 12							4339		
00 13							135989 0 12	135994 VI9D 4340	D014
00 14	8MU9957200	TAF	06	8MU9957230	TR	02	136004 1	130384 #38D 4344	D017 CH26
00 15							4341		
00 16	8MU9957210	TAB	06	8MU9936400	SEL 00	8MU9936600	135999 I	136009 W#-I 4342	D017 CH26
00 17							4342		
00 18	8MU9957230	RCVS	01	8MU99083506001	TRSL 01	8MU9908000	136009 U	1 122551 25VA 4345	D019 AN20
00 19							4343		
00 20		TR	00	8MU9957210			136014 1	1 122064 20WD 4346	D020
00 21	8MU9957300	TAA	01	8MU9957350	SEL 00	000500	136014 1	1 122551 25VA 4346	D020
00 22							4344		
00 23		SEL 00	00	8MU9931630	WR 00	8MU9931630	136024 I	1 136049 W0U1 4349	D028
00 24							4345		
00 25	8MU9957340	TMC	11	8MU9957340	TRC 12	8MU9957350	136039 0 11	136044 W-DD 4353	D026
00 26							4352		
00 27							4353		
00 28	8MU9957350	TAF	06	8MU9957380	TR	02	136054 1	2 136064 W#D 4356	D031 CH30
00 29							4355		
00 30	8MU9957360	TAB	06	8MU9936600	SEL 02	8MU9936600	136054 I	2 130384 #30D 4357	D031 CH30
00 31							4356		
00 32	8MU9957380	RCVS	01	8MU99083506001	TRSL 01	8MU9908000	136064 U	1 122551 25VA 4359	D029 AN20
00 33							4357		
00 34		TR	00	8MU9957360			136074 1	136054 W05D 4362	D029
00 35							4361		
00 36	8MU9957500	LDA	00	8MU9956450	TR	01	136079 *	135754 V75D 4364	D021 D021
00 37							4363		
00 38							4364		
00 39							4365		

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8MU99	- - -	COMMENTS	LOC OP SU	ADDRESS	PGLIN SER REF	
DR 01	SGN	00	8MU9958200-004	RESET COE2C SEQ CHK SW	136094 T	136360 366 4368	D525	136099 6	136360 366 4369	D525	
DR 02	ADM	00	8MU9958200-004	RESET COE2C SEQ CHK SW	136094 T	136360 366 4368	D525	136099 6	136360 366 4369	D525	
DR 03	TITLE	TR	02	8MU9910514	2	8MU9958950	GO TO CHAR E	136104 H	2 122683 260C 4371	A043	
DR 04	RAD	02	8MU9910514	2	8MU9958950	GO TO CHAR E	136104 H	2 122683 260C 4371	A043		
DR 05	TR	00	8MU9910514	2	8MU9958950	GO TO CHAR E	136109 1	136614 W61D 4372	D742		
DR 06	TITLE	SETUP FOR COE2C SEQ CHK	4373	8MU9957600 LDA	00	8MU9956750	- TO 6 COMPLMT ADDR	136114 *	135849 V84I 4374	DPI1	
DR 07	8MU9957600 LDA	00	8MU9956750	- TO 6 COMPLMT ADDR	136114 *	135849 V84I 4374	DPI1	136119 *	136189 W18I 4375	DPI1	
DR 08	UL A	00	8MU9957800	SET CHAR C BCA	136114 *	135849 V84I 4374	DPI1	136119 *	136189 W18I 4375	DPI1	
DR 09	TITLE	4376	ADM	00	8MU9958200-C04	SET COE2C SEQ CHK SW	136124 T	136360 366 4377	D525		
DR 10	SGN	00	8MU9958200-C04	SET COE2C SEQ CHK SW	136124 T	136360 366 4377	D525	136129 1	136805 W80E 4378	D525	
DR 11	ADM	00	8MU9958200-C04	RESET EZCOE SEQ CHK SW	136124 6	136805 W80E 4379	D525	136129 6	136805 W80E 4379	D525	
DR 12	SGN	00	8MU9958200-C04	RESET EZCOE SEQ CHK SW	136124 6	136805 W80E 4379	D525	136129 1	136805 W80E 4378	D525	
DR 13	TITLE	4376	ADM	00	8MU9958200-C04	SET COE2C SEQ CHK SW	136124 T	136360 366 4377	D525		
DR 14	RAD	02	8MU9910514	2	8MU9957750	GO TO CHAR C	136139 H	2 122683 260C 4381	A043		
DR 15	TR	00	8MU9910514	2	8MU9957750	GO TO CHAR C	136144 I	136164 W16D 4382	DR20		
DR 16	8MU9957700 LDA	00	8MU9959550	L0D CHAR Z BCA	136149 #	136869 W86I 4383	279D119	136154 *	136189 W18I 4384	DR27	
DR 17	ULA	00	8MU9957800	SET CHAR C BCA	136149 #	136869 W86I 4383	279D119	136154 *	136189 W18I 4384	DR27	
DR 18	AMA	C1	8MU9957800	INCRESAE BY 000001	136159 6	I 136189 W18I 4385	DR27	136159 6	I 136189 W18I 4385	DR27	
DR 19	TITLE	CHAR C ALL BIT CHECK	4386	000007	00007 0007 4387	136164 B	000007 0007 4387	AU04	123482 3488 4388	AU04	
DR 20	8MU9957750 SET	CD	000007	8MU9912254	----	136164 B	000007 0007 4387	AU04	122854 285D 4389	AU04	
DR 21	L0D	00	8MU9912254	----	136169 8	123482 3488 4388	AU04	122854 285D 4389	AU04		
DR 22	UNL	00	8MU9910940	RESET BIT BREAKDOWN	136174 7	123482 3488 4388	AU04	136174 7	122854 285D 4389	AU04	
DR 23	SET	00	000002	00002 4400	136179 B	000002 0002 4400	A506	136179 B	000002 0002 4400	A506	
DR 24	UNL	00	8MU9910920-001	----	136184 7	122844 284D 4401	A504	136184 7	122844 284D 4401	A504	
DR 25	TITLE	4402	136189 U	1 000000 00#0 4404	4403	136189 U	1 000000 00#0 4404	4403	136204 7	8 122854 205D 4407	DR30
DR 26	8MU9957800 RCVS	Q1	600000	CHAR C BIT CHECK ADDRESS	136204	8MU9957840	00	8MU9957830	136204 W24D 4408	280DR33	
DR 27	8MU9957800 RCVS	Q1	600000	CHAR C BIT CHECK ADDRESS	136204	8MU9957840	00	8MU9957830	136204 W24D 4408	280DR33	
DR 28	TZB	01	8MU9957830	136204	136204	8MU9957860	02	8MU9957840	136204 W24D 4408	280DR33	
DR 29	TR	00	8MU9957840	136204	136204	8MU9957860	00	8MU9957830	136204 W24D 4408	280DR33	
DR 30	8MU9957830 UNL	00	8MU9910940	----	136204	8MU9957870	00	8MU9957930 UNL	136204 W24D 4408	280DR33	
DR 31	8MU9957840 TZB	02	8MU9957860	----	136204	8MU9957930 UNL	00	8MU9957940 TZB	136204 W24D 4408	280DR33	
DR 32	8MU9957840 TZB	00	8MU9957870	----	136204	8MU9957940 TZB	00	8MU9957960 TZB	136204 W24D 4408	280DR33	
DR 33	8MU9957860 UNL	00	8MU9910940-001	----	136219	8 122853 205C 4410	A506	136219	8 122853 205C 4410	A506	
DR 34	8MU9957870 UNL	00	8MU9910940-002	----	136224	9 122852 205D 4411	DR36	136224	9 122852 205D 4411	DR36	
DR 35	8MU9957890 UNL	00	8MU9910940-003	----	136229	9 122851 20VA 4414	DR38	136229	9 122851 20VA 4414	DR38	
DR 36	8MU9957890 UNL	00	8MU9910940-003	----	136234	4 136244 WS4D 4413	AS06	136234	4 136244 WS4D 4413	AS06	
DR 37	8MU9957890 UNL	00	8MU9910940-003	----	136239	5 136254 WSVD 4415	DR40	136239	5 136254 WSVD 4415	DR40	
DR 38	8MU9957890 UNL	00	8MU9910940-003	----	136244	136244 1	DR41	136244	136244 1	DR41	
DR 39	8MU9957890 UNL	00	8MU9910940-004	----	136249	136249 1	DR41	136249	136249 1	DR41	
DR 40	8MU9957930 UNL	00	8MU9910940-004	----	136254	6 136269 W50I 4418	DS01	136254	6 136269 W50I 4418	DS01	
DR 41	8MU9957940 TZB	00	8MU9957960	----	136259	6 136269 W50I 4418	DS01	136259	6 136269 W50I 4418	DS01	
DR 42	8MU9957940 TZB	00	8MU9957970	----	136264	7 136274 W27D 4419	DS02	136264	7 136274 W27D 4419	DS02	

LINE#	TAG	OP	NU AT	OPERAND	PROGRAM	MU99	-	COMMENTS	LOC	OP SU	ADDRESS	PGM IN	SER REF
01	8MU9957960	UNL	08	8MU9910940-005	-D-----	8MU9958000	C	8MU9910940-006	136269 7	8	122849 2041	4420	281A506
02	8MU9957970	TZB	09	8MU9910940-005	-D-----	8MU9910940-006	UNL	09	136274 *	7	136289 WSH1	4421	D507
03	8MU9957970	UNL	09	8MU9910940-005	-D-----	8MU9910940-006	UNL	09	136279 7	9	122848 20UH	4422	A506
04	8MU9958000	TR	00	8MU9958050	P-----	8MU9910940-006	UNL	09	136284 1	136309 30I	4423	D511	
05	8MU9958000	SET	00	8MU9958000	000007	8MU9910940-006	UNL	09	136284	1	136309 30I	4423	D511
06	8MU9958000	TITLE	00	8MU9958000	000007	8MU9910940-006	UNL	09	136285	8	122849 2041	4426	A506
07	8MU9958000	SET	00	8MU9958000	000007	8MU9910940-006	UNL	09	136289 8	122854 285D	4427	A506	
08	8MU9958000	TITLE	00	8MU9958000	000007	8MU9910940-006	UNL	09	136294	8	122854 285D	4427	A506
09	8MU9958000	CMR	00	8MU9958000	000007	8MU9910940-006	UNL	09	136299 4	123482 3498	4428	A506	
10	8MU9958000	TRE	00	8MU9958000	000007	8MU9910940-006	UNL	09	136304 L	136364 W36D	4429	D525	
11	8MU9958050	RCVS	01	8MU99109208001	NO ERROR	8MU99109208001	UNL	09	136309 U	122845 284E	4439	A504	
12	8MU9958050	TMS	08	8MU99317006009	C--X	8MU99317006009	UNL	09	136314 9	8	129199 9J9T	4431	C411
13	8MU9957800	LDA	00	8MU9957800	CHAR C BCA	8MU9957800	CHAR C BCA	000000	136319 #	136189 W18I	4432	DR27	
14	8MU9957800	LDA	00	8MU9957800	CHAR C BCA	8MU9957800	CHAR C BCA	000000	136324 7	122839 283I	4434	A502	
15	8MU9957800	UNL	00	8MU9957800	CHAR C BCA	8MU9957800	CHAR C BCA	000000	136324 *	136329 *	136339 W33I	4435	282D519
16	8MU9957800	UNL	00	8MU9957800	CHAR C BCA	8MU9957800	CHAR C BCA	000000	136324 *	136189 W18I	4436	DR27	
17	8MU9958110	TITLE	00	8MU9958110	000001	8MU9958110	000001	00001	136334 B	000001 0001	4437	A504	
18	8MU9958110	SET	00	8MU9958110	000001	8MU9958110	000001	00000	136339 8	000000 0000	4438	A504	
19	8MU9958110	LOD	00	8MU9958110	000000	8MU9958110	000000	00000	136339 8	000000 0000	4438	A504	
20	8MU9958110	UNL	00	8MU9958110	000000	8MU9958110	000000	00000	136344 7	122845 284E	4439	A504	
21	8MU9958110	RCVS	01	8MU99601406001	C-X	8MU99601406001	60 TO T-O	60 TO T-O	136344 U	137096 X02F	4440	DW33	
22	8MU9958110	TSL	01	8MU996006000	60 TO T-O	8MU996006000	60 TO T-O	60 TO T-O	136344 1	137039 X0T1	4441	DW15	
23	8MU9958170	TR	00	8MU9958200	SEG CHK SWITCH - CO62C	8MU9958200	SEG CHK SWITCH - CO62C	136364 A	136374 W37D	4444	D528		
24	8MU9958170	TR	00	8MU9958200	SEG CHK SWITCH - CO62C	8MU9958200	SEG CHK SWITCH - CO62C	136364 1	136364 W38D	4445	D530		
25	8MU9958200	NOP	00	8MU9958200	000000	8MU9958200	000000	0000	136364	136374 W36D	4443	D525	
26	8MU9958200	TR	00	8MU9958250	SEG CHK SWITCH - CO62C	8MU9958250	SEG CHK SWITCH - CO62C	136369 1	136369 1	136384 W38D	4445	D528	
27	8MU9958220	SUB	02	8MU9910510	REDUCE 2 CTR BY 1	8MU9910510	REDUCE 2 CTR BY 1	136374 P	2 122682 260B	4447	A042		
28	8MU9958250	TRZ	02	8MU9956850	RETURN TO 6 TO - RECOMPLEMENT	8MU9956850	RETURN TO 6 TO - RECOMPLEMENT	136379 N	2 135889 V8Q1	4448	D524		
29	8MU9958250	LDA	00	8MU9956850	LD CHAR C BCA	8MU9956850	LD CHAR C BCA	136384 *	136189 W18I	4449	DR27		
30	8MU9958250	ULR	00	8MU9956850	SET CHAR O BCA	8MU9956850	SET CHAR O BCA	136389 *	136424 W42D	4450	283D541		
31	8MU9958250	ULR	00	8MU9956850	INCREASE BY 000001	8MU9956850	INCREASE BY 000001	136394 0	1 136424 W45D	4451	DS41		
32	8MU9958250	AM	01	8MU9958350	INC BASE BY 000001	8MU9958350	INC BASE BY 000001	136394	1 136424 W45D	4451	DS41		
33	8MU9958250	ULR	00	8MU9958350	SET CHAR O BCA	8MU9958350	SET CHAR O BCA	136389 *	136424 W42D	4450	283D541		
34	8MU9958250	SET	00	8MU9912254	----	8MU9912254	----	136404 8	123482 348B	4454	A504		
35	8MU9958250	LOD	00	8MU9912254	----	8MU9912254	----	136404 7	122845 285D	4455	A506		
36	8MU9958250	UNL	00	8MU9910940	000002	8MU9910940	000002	0002	136414 B	122844 284D	4457	AS04	
37	8MU9958250	SET	00	8MU9910940	000002	8MU9910940	000002	0002	136414 B	122844 284D	4457	AS04	
38	8MU9958250	UNL	00	8MU9910940	000002	8MU9910940	000002	0002	136414 B	122844 284D	4457	AS04	
39	8MU9958250	TITLE	00	8MU9910940	000000	8MU9910940	000000	0000	136414 7	9 122854 20VD	4462	AS06	
40	8MU9958350	TITLE	01	8MU9958380	CHAR 0 BIT CHECK ADDRESS	8MU9958380	CHAR 0 BIT CHECK ADDRESS	136424 U	1 000000 00#0	4460	DS06		
41	8MU9958350	UNL	09	8MU9910940	000000	8MU9910940	000000	0000	136434 7	9 122854 20VD	4462	DS06	
42	8MU9958380	TZB	01	8MU9958380	----	8MU9958380	----	136434 *	136439 W4T1	4461	DT01		
43	8MU9958380	UNL	09	8MU9910940	000000	8MU9910940	000000	0000	136434 7	9 122854 20VD	4462	DS06	

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DT 03	8M99958400	UNL	08	8M99910940-001	----D-		136449 7	122853 205C 4465 284AS06
DT 04	8M99958410	TZB	4	8M99958430			136454 *	3 136464 W4FD 4466 DT06
DT 05	8M99958400	UNL	08	8M99958440			136459 1	136469 W46I 4467 DT07
DT 06	8M99958430	UNL	08	8M99910940-C02	----D--		136464 7	122852 2058 4468 AS06
DT 07	8M99958440	TZB	8	8M99958460	---P---		136469 *	4 136479 WU71 4469 DT09
DT 08	8M99958460	UNL	09	8M99910940-C03	---P---		136474 7	9 122851 20VA 4470 AS06
DT 09	8M99958460	TZB	A	8M99958480	---P---		136479 *	5 136489 WUYI 4471 DT11
DT 10	8M99958480	UNL	09	8M99910940-004	---P---		136484 7	9 122850 20V6 4472 AS06
DT 11	8M99958480	TZB	B	8M99958500			136489 *	6 136499 WURI 4473 DT13
DT 12	8M99958480	TZB	C	8M99958530			136494 1	8M99958510 TR 00 136504 W50D 4474 DT14
DT 13	8M99958500	UNL	08	8M99910940-005	----D----		136504 *	7 136514 WVA 4476 DT16
DT 14	8M99958510	TZB	C	8M99958530			136509 1	136524 W52D 4477 285D120
DT 15	8M99958500	TR	00	8M99958550			136514 7	8 122848 204H 4478 AS06
DT 16	8M99958530	UNL	08	8M99910940-006	D----		136519 1	136544 W54D 4479 DT24
DT 17	8M99958530	UNL	08	8M99958600			136519 1	8 122848 204H 4478 AS06
DT 18	8M99958600	TR	00	8M99958600			136524	4480
DT 19	8M99958550	SET	00	8000007	0007	4482	136524 B	000007 0007 4482
DT 20	8M99958550	SET	00	8000007	0007	4481	136524 B	4481
DT 21	8M99910940	LDD	00	8M99910940	-----		136529 8	122854 285D 4483 AS06
DT 22	8M99912254	CMP	00	8M99912254	TEST FOR -----		136534 4	123482 348B 4484 AU04
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DT 24	8M99958600	R CVS	01	8M99910940	SB CHAR		136544 U	122842 28U8 4486 AS04
DT 25	8M99958600	TR	08	8M999317106008	O--X		136549 9	8 129208 9KOH 4487 CA12
DT 26	8M99958600	TITLE	26	8M99958600	CHAR O BCA		136554 *	136424 W42D 4489 DS41
DT 27	8M99958350	LDA	00	8M99910930	000000	ERROR ADDR	136554 #	136559 7 122839 2831 4500 AS02
DT 28	8M99958350	ULR	00	8M99910930	000000	CHAR O BCA	136554 *	136574 W57D 4501 DT32
DT 29	8M99958350	ULR	00	8M99910930	000000	CHAR O BCA	136559 7	136559 * 122839 2831 4500 AS02
DT 30	8M99958600	SET	00	600001	000001	4502	136569 B	000001 0001 4503 4502 286
DT 31	8M99958660	LDD	00	600000	000000	4503	136569 B	000001 0001 4503 4502 286
DT 32	8M99958660	UNL	00	600000	000000	4504	136574 8	000000 0000 4504 4505 DS41
DT 33	8M99910920	UNL	00	600000	000000	4504	136574 7	122845 284C 4505 DS41
DT 34	8M9991406001	O--X		8M99910920	ERROR CONTENTS		136579 7	122845 284C 4505 DS41
DT 35	8M999601406001	O--X		8M999601406001	GO TO T-O		136584 U	137096 XOF2 4506 DS41
DT 36	8M99958900	TR	00	8M99958900	INCRAESE BY 000001		136589 1	136639 W6T1 4512 DS41
DT 37	8M99958900	TITLE	37	8M99958900	SET CHAR @ BCA		136604 *	136604 * 136639 W6T1 4512 DS41
DT 38	8M99958900	LDA	00	8M99958900	INCRAESE BY 000001		136604 *	136639 W6T1 4512 DS41
DT 39	8M99959000	ULR	01	8M99959000	SET CHAR @ BCA		136604 *	136639 W6T1 4512 DS41
DT 40	8M99959000	ULR	01	8M99959000	INCRAESE BY 000001		136604 *	136639 W6T1 4512 DS41
DT 41	8M99958950	TITLE	41	8M99958950	CHAR @ ALL BIT CHECK		136614 B	000007 0007 4514 DS41
DT 42	8M99958950	SET	00	600007	0007	4514	136614 B	000007 0007 4514 DS41

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM	8MU99	-	COMMENTS	LOC OP SU	ADDRESS	GLIN SER REF
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DU 02	UNL	00	8MU9910940	-----P	-----	136624 7	122854 285D 4522	-----P	136629 8	000002 0002 4516	AU06
DU 03	SET	00	8MU9910940	-----P	-----	136629 8	000002 0002 4517	-----P	136634 7	122844 284D 4518	AU04
DU 04	UNL	00	8MU9910920	-----	-----	136634 7	122844 284D 4518	-----	136634 7	122844 284D 4518	AU04
DU 05	-----	-----	-----	-----	-----	136634 7	122844 284D 4518	-----	136634 7	122844 284D 4518	AU04
DU 06	-----	-----	-----	-----	-----	136639 U	1 000000 00# 4521	CHAR @ BIT CHECK ADDRESS	136639 U	000000 RCVS 01	DU06
DU 07	8MU9959000	RCVS	01	000000	CHAR @ BIT CHECK ADDRESS	136639 U	1 000000 00# 4521	-----	136639 U	8MU9910920-001	DU07
DU 08	8MU9959030	TZB	01	8MU9959030	CHAR @ BIT CHECK ADDRESS	136644 *	1 136654 W6VD 4522	-----P	136649 7	8MU9910940-001	DU10
DU 09	UNL	09	8MU9910940	-----P	-----	136644 *	1 136654 W6VD 4522	-----P	136649 7	8MU9910940-001	DU10
DU 10	8MU9959030	TZB	02	8MU9959050	-----P	136649 *	2 136664 20VD 4523	-----P	136654 *	8MU9910940-001	DU12
DU 11	UNL	09	8MU9959050	-----P	-----	136654 *	2 136664 20VD 4523	-----P	136659 7	9 122853 20VC 4525	AU06
DU 12	8MU9959050	TZB	04	8MU9959070	-----P	136659 7	9 122853 20VC 4525	-----P	136664 *	3 136674 W6GD 4526	DU14
DU 13	TR	00	8MU9959080	-----	-----	136664 *	3 136674 W6GD 4526	-----P	136669 1	136679 W671 4527	DU15
DU 14	8MU9959070	UNL	08	8MU9910940-002	-----D--	136669 1	136679 W671 4527	-----P	136669 1	8MU9959080	DU15
DU 15	8MU9959080	TZB	08	8MU9910940-002	-----D--	136669 1	136679 W671 4527	-----P	136669 1	8MU9959100	DU17
DU 16	TR	00	8MU9959110	-----	-----	136669 1	136694 W69D 4530	DU18	136669 1	8MU9959110	DU16
DU 17	8MU9959110	TZB	A	8MU9959130	-----	136669 1	136694 W69D 4530	DU20	136669 7	8 122851 205A 4531	288A506
DU 18	8MU9959110	TZB	A	8MU9959130	-----	136669 7	8 122851 205A 4531	288A506	136669 7	8 122851 205B 4528	AU06
DU 19	UNL	09	8MU9910940-004	-----P	-----	136669 7	8 122852 205B 4528	AU06	136674 *	6 136714 W3JD 4534	DU22
DU 20	8MU9959130	TZB	B	8MU9910940-005	-----P	136674 *	6 136714 W3JD 4534	DU22	136704 *	9 122849 2QUD 4535	AU06
DU 21	UNL	09	8MU9959170	-----C	-----	136704 *	9 122849 2QUD 4535	AU06	136709 7	9 122849 2QUD 4535	DU22
DU 22	8MU9959150	TZB	C	8MU9959170	-----	136714 *	7 136724 WXB0 4536	DU24	136714 *	7 136724 WXB0 4536	AU06
DU 23	TR	00	8MU9959190	-----	-----	136714 *	7 136724 WXB0 4536	DU24	136719 1	136734 W73D 4537	DU28
DU 24	8MU9959170	UNL	08	8MU9910940-006	D-----	136719 1	136734 W73D 4537	DU28	136724 7	8 122848 2QAH 4538	AU06
DU 25	TR	00	8MU9959250	-----	-----	136724 7	8 122848 2QAH 4538	AU06	136729 1	136754 W75D 4539	DU28
DU 26	-----	-----	-----	-----	-----	136729 1	136754 W75D 4539	DU28	4540	4540	DU26
DU 27	8MU9959190	SET	00	000007	0007 4542	136734 B	000007 0007 4542	4541	136734 B	000007 0007 4542	DU27
DU 28	8MU9910940	L0D	00	000007	0007 4542	136734 B	000007 0007 4542	4541	136734 B	000007 0007 4542	DU28
DU 29	8MU9910940	CMF	00	8MU9912254	TEST FOR -----	136744 4	122854 285D 4543	AU06	136744 4	122854 285D 4543	AU06
DU 30	8MU9910940	CMF	00	8MU9910940	NO ERROR	136744 4	122854 285D 4543	AU06	136749 L	136809 W80I 4545	289D03
DU 31	8MU9910940	TRF	00	8MU9910920	001	136749 L	136809 W80I 4545	289D03	136754 U	122842 288B 4546	AU04
DU 32	8MU9959250	RCVS	01	8MU9910920	001	136754 U	122842 288B 4546	AU04	136759 9	8 1229209 9KOI 4547	CAL2
DU 33	8MU9959250	RCVS	08	8MU9910920	009	136759 9	8 1229209 9KOI 4547	CAL2	136764 #	136639 W63I 4549	AU04
DU 34	8MU9959000	TITLE	00	8MU9959000	CHAR @ BCA	136764 #	136639 W63I 4549	AU04	136764 *	122839 283I 4550	DU07
DU 35	8MU9959000	LDA	00	8MU9959000	CHAR @ BCA	136764 *	122839 283I 4550	DU07	136769 7	122842 284E 4555	AS04
DU 36	8MU9959000	UNL	00	8MU9910920	000	136769 7	122842 284E 4555	AS04	136774 *	136784 W78D 4551	DU40
DU 37	8MU9959000	ULA	00	8MU9959000	000	136774 *	136784 W78D 4551	DU40	136779 1	137039 X0T1 4557	DW15
DU 38	8MU9959310	SET	00	000001	0001 4553	136779 B	000001 0001 4553	4552	136779 B	000001 0001 4554	DU39
DU 39	8MU9959310	SET	00	000000	0000 4554	136779 B	000000 0000 4554	4552	136784 8	000000 0000 4555	DU40
DU 40	8MU9959310	RCVS	01	8MU99601406001	-----	136784 8	000000 0000 4555	DU40	136784 8	137039 X0T1 4557	DW15
DU 41	8MU9959310	RCVS	01	8MU9960000	60 TO T-O	136784 8	137039 X0T1 4557	DW15	136794 U	137096 X0ZF 4556	DW33
DU 42	8MU9959310	RCVS	01	8MU9960000	60 TO T-O	136794 U	137096 X0ZF 4556	DW33	136799 1	137039 X0T1 4557	DW15

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DV 02	TITLE	TR	00	8MU9959400		136804 I	136809 W8I 4559	DV03	4558			
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DV 06	8MU9959420	SUB	02	8MU9910510	REDUCE 2 CTR BY 1	136819 P	2 122682 260B 4563	A042	136824 N	2 135794 VTRD 4564	D034	
DV 07	8MU9959450	LDA	00	8MU9959000	RETURN TO - TO 6 RECOMPLEMENT	136824	135794 VTRD 4564	D034	136824	135794 VTRD 4564	D034	
DV 08	8MU9959450	LDA	00	8MU9959550	SET CHAR # BCA	136829 #	136639 W6I 4565	DU07	136829 #	136639 W6I 4565	DU07	
DV 09	8MU9959450	LDA	00	8MU9959550	SET CHAR # BCA	136834 *	136869 W8I 4566	DV19	136834 *	136869 W8I 4566	DV19	
DV 10	8MU9959450	LDA	01	8MU9959550	INCRASE BY 000001	136839 E	136869 W8I 4567	DV19	136839 E	136869 W8I 4567	DV19	
DV 11	TITLE	CHAR Z ALL BIT CHECK				4568	000007 0007 4569	A042	136844 B	000007 0007 4569	A042	
DV 12	SET	00	000007	8MU9912254	-----	136844 B	136849 8	A042	136849 8	123482 3488 4570	A042	
DV 13	SET	00	000007	8MU9912254	-----	136844 B	000007 0007 4569	A042	136844 B	122854 2850 4579	A042	
DV 14	SET	00	8MU9910940	-----		136844 B	136849 8	A042	136849 8	122853 20VC 4581	A042	
DV 15	SET	00	8MU9910940	-----		136844 B	136849 8	A042	136844 B	136854 7	A042	
DV 16	UNL	00	8MU9910920	-----		136864 7	122844 284D 4573	A042	136864 7	122844 284D 4573	A042	
DV 17	TITLE					4574	291					DV17
DV 18	TITLE	CHAR Z 2 BIT CHECK ADDRESS	01	8MU9959580	000000 00# 4576	136869 U	1 000000 00# 4576	4575	136874 *	1 136884 W8YD 4577	DV22	
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DV 20	8MU9959550	RCVS	01	8MU9959580	000000 00# 4576	136874	1 136884 W8YD 4577	DV22	136874	1 136884 W8YD 4577	DV22	
DV 21	TR	00	8MU9959580	000000 00# 4576		136879 I	136889 W8I 4578	DV23				DV23
DV 22	8MU9959583	UNL	08	8MU9910940	-----D	136884	8 122854 205D 4579	A042	136884	8 122854 205D 4579	A042	
DV 23	8MU9959590	TZB	02	8MU9959610	-----D	136889	2 136899 W8R1 4580	DV25	136889	2 136899 W8R1 4580	DV25	
DV 24	8MU9959610	UNL	09	8MU9910940	-----P-	136894	7 9 122853 20VC 4581	A042	136894	7 9 122853 20VC 4581	A042	
DV 25	8MU9959630	TZB	4	8MU9959630	-----P--	136899	3 136909 W9E1 4582	A042	136899	3 136909 W9E1 4582	A042	
DV 26	8MU9959630	UNL	09	8MU9910940	-----P--	136904	7 9 122852 20VB 4583	DV27	136904	7 9 122852 20VB 4583	DV27	
DV 27	8MU9959630	TZB	8	8MU9959650	-----P--	136909	4 136919 WZ11 4584	DV29	136909	4 136919 WZ11 4584	DV29	
DV 28	8MU9959660	UNL	00	8MU9959660	-----	136914	1 136924 W92D 4585	DV30	136914	1 136924 W92D 4585	DV30	
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DV 30	8MU9959660	TZB	8	8MU9959680	----D----	136924	5 136934 WZTD 4587	DV32	136924	5 136934 WZTD 4587	DV32	
DV 31	8MU9959660	UNL	00	8MU9959690	-----	136929	1 136939 W93I 4588	292DV33	136929	1 136939 W93I 4588	292DV33	
DV 32	8MU9959680	UNL	08	8MU9910940	----D----	136934	7 8 122850 205G 4589	A042	136934	7 8 122850 205G 4589	A042	
DV 33	8MU9959710	TZB	8	8MU9910940	----P----	136939	6 136949 WZM1 4600	DV35	136939	6 136949 WZM1 4600	DV35	
DV 34	8MU9959710	UNL	09	8MU9910940	----P----	136944	7 9 122849 20UI 4601	A042	136944	7 9 122849 20UI 4601	A042	
DV 35	8MU9959710	TZB	C	8MU9910940	----P----	136949	7 136964 WZFD 4602	DV40	136949	7 136964 WZFD 4602	DV40	
DV 36	8MU9910940	UNL	09	8MU9910940	----P----	136954	7 9 122848 20UH 4603	A042	136954	7 9 122848 20UH 4603	A042	
DV 37	8MU9959800	UNL	00	8MU9957700	NO ERROR	136959	1 136984 W98D 4604	DW01	136959	1 136984 W98D 4604	DW01	
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DV 39	TITLE					4606						DV39
DV 40	8MU9959740	SET	00	8MU99007	-----	136964 B	000007 0007 4607	A042	136964 B	122854 285D 4608	A042	
DV 41	8MU9910940	LDD	00	8MU9912254	TEST FOR -----	136969	8 122854 285D 4608	A042	136969	8 122854 285D 4608	A042	
DV 42	CMP	00	8MU9910940	-----		136974	4 123482 3488 4609	A042	136974	4 123482 3488 4609	A042	
DV 43	TR	00	8MU9957700	-----		136979 L	1 136149 W14I 4610	DV03	136979 L	1 136149 W14I 4610	DV03	

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM	SMU99	-	-	COMMENTS	LOC	OP SU	ADDRESS	PGLIN	SER REF			
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DW 02	SMU9959800	RCVS	01	SMU99109206001	TMIS	08	SMU99317006008	Z--X	SB CHAR	136984 9	8	129198 9J9H	4612	293CA11			
DW 03	SMU9959800	LDA	00	SMU9939550	CHAR Z	BCA	136994 #	136869 W86I	4614	136994 *	137014	X01D	4616	DV19			
DW 04	SMU9959800	LDA	00	SMU9939550	CHAR Z	BCA	136999 7	122839 283I	4615	136999 7	122839 283I	4615	AS02	DV19			
DW 05	SMU9959800	UNL	00	000000	000000	000000	000000	000000	000000	ULR	00	SMU9959860	137004 *	DW09			
DW 06	SMU9959800	UNL	00	SMU9910900	000000	000000	000000	000000	000000	ULR	00	SMU9959860	137004 *	DW09			
DW 07	SMU9959860	SET	00	000001	000000	000000	000000	000000	000000	TRL	00	SMU9959860	137004 *	DV19			
DW 08	SMU9959860	LOD	00	SMU9910920	Z--X	ERROR CONTENTS	137014 8	000001 0001	4618	137009 B	000001 0001	4618	AS04	DW12			
DW 09	SMU9959860	LOD	00	000000	000000	000000	000000	000000	000000	137014	7	122845 284E	4620	DW13			
DW 10	SMU9959860	UNL	00	SMU9910920	Z--X	ERROR CONTENTS	137019 7	122845 284E	4620	137024 U	1	137096 X0ZF	4621	DW11			
DW 11	SMU9959860	UNL	00	000000	000000	000000	000000	000000	000000	137024	1	137096 X0ZF	4622	DW12			
DW 12	SMU9959860	TRL	01	SMU9960001	Z--X	ERROR CONTENTS	137029 1	1	137039 XOTI	4622	137029 1	1	137039 XOTI	4622	DW13		
DW 13	SMU9959860	TRL	00	SMU9957700	60 TO CHAR C	CHK	137034 1	136149 W14I	4624	137034 1	137064 X0WD	4625	DW23	DW15			
DW 14	SMU9959860	TRL	00	SMU9960040	8MU9960040	8MU9960040	8MU9960040	8MU9960040	8MU9960040	TRL	12	137059 O	12	137064 X66D	4631	DW21	
DW 15	SMU9960000	TAA	01	SMU9960050	BYPASS T-O	IF 0911 ON	137039 1	137064 X0WD	4625	137059 0	11	137059 X-EI	4630	DW21	DW20		
DW 16	SMU9960000	TRL	00	SMU9910900	0000500	0000500	0000500	0000500	0000500	137044 2	0000500 0500	4627	137044 2	0000500 0500	4628	DW17	
DW 17	SMU9960000	SEL	00	SMU9910900	0000500	0000500	0000500	0000500	0000500	137044 R	122834 283D	4628	137044 2	0000500 0500	4628	DW18	
DW 18	SMU9960000	WR	00	SMU9910900	0000500	0000500	0000500	0000500	0000500	137044 R	122834 283D	4628	137044 2	0000500 0500	4628	DW19	
DW 19	SMU9960000	TRL	11	TMIC	11	8MU9960040	8MU9960040	8MU9960040	8MU9960040	8MU9960040	TRL	12	137059 O	12	137064 X66D	4631	DW21
DW 20	SMU9960000	TRL	12	TRC	12	8MU9960040	8MU9960040	8MU9960040	8MU9960040	8MU9960040	TRL	12	137059 O	12	137064 X66D	4631	DW21
DW 21	SMU9960040	TRL	12	TRC	12	8MU9960040	8MU9960040	8MU9960040	8MU9960040	8MU9960040	TRL	12	137059 O	12	137064 X66D	4631	DW21
DW 22	SMU9960050	TAE	05	8MU9960040	5 137099 X#ZI	4633	137064 I	5 137099 X#ZI	4633	137064 I	5 137099 X#ZI	4633	137064 I	5 137099 X#ZI	4633	DW23	
DW 23	SMU9960050	TAE	05	8MU9960040	8MU9960040	8MU9960040	8MU9960040	8MU9960040	8MU9960040	TRL	01	8MU99167506001	BYPASS TABULATION IF 0915 ON	4632	DW24		
DW 24	SMU9960050	TAE	05	8MU9960040	125661 56WA	4634	137069 U	125661 56WA	4634	137069 U	125661 56WA	4634	137069 U	125661 56WA	4634	DW25	
DW 25	SMU9960050	TRL	01	8MU9916000	125379 53XI	4635	137074 I	125379 53XI	4635	137074 I	125379 53XI	4635	137074 I	125379 53XI	4635	DW26	
DW 26	SMU9960050	TRL	01	8MU99266006001	127641 76UA	4637	137079 U	127641 76UA	4637	137079 U	127641 76UA	4637	137079 U	127641 76UA	4637	DW27	
DW 27	SMU9960050	TRL	01	8MU9920170	125669 56WI	4638	137084 I	125669 56WI	4638	137084 I	125669 56WI	4638	137084 I	125669 56WI	4638	BFS28	
DW 28	SMU9960050	TRL	01	8MU9958170	VARIABLE RETRACE		137099 I	136359 W35I	4643	137099 I	136359 W35I	4643	137099 I	136359 W35I	4643	DW29	
DW 29	SMU9960050	TRL	01	8MU9961000	137104 X1AD	4641	137094 I	137104 X1AD	4641	137094 I	137104 X1AD	4641	137094 I	137104 X1AD	4641	DW30	
DW 30	SMU9960050	TRL	01	8MU9961000	137104 X5TA	4640	137089 U	137104 X5TA	4640	137089 U	137104 X5TA	4640	137089 U	137104 X5TA	4640	DW31	
DW 31	SMU9960050	TRL	01	8MU9961000	137104 X5TA	4640	137094 I	137104 X5TA	4640	137094 I	137104 X5TA	4640	137094 I	137104 X5TA	4640	DW32	
DW 32	SMU9960050	TRL	01	8MU9961000	137104 X5TA	4640	137099 I	137104 X5TA	4640	137099 I	137104 X5TA	4640	137099 I	137104 X5TA	4640	DW33	
DW 33	SMU9960050	TRL	01	8MU9961000	137104 X5TA	4640	137104 U	137104 X5TA	4640	137104 U	137104 X5TA	4640	137104 U	137104 X5TA	4640	DW34	
DW 34	SMU9960050	TRL	01	8MU9930110	137104 X5TA	4640	137104 U	137104 X5TA	4640	137104 U	137104 X5TA	4640	137104 U	137104 X5TA	4640	DW35	
DW 35	SMU9960050	TRL	01	8MU9930110	137104 X5TA	4640	137104 U	137104 X5TA	4640	137104 U	137104 X5TA	4640	137104 U	137104 X5TA	4640	DW36	
DW 36	SMU9960050	TRL	01	8MU9930110	137104 X5TA	4640	137109 *	137144 X1UD	4646	137109 *	137144 X1UD	4646	137109 *	137144 X1UD	4646	DW37	
DW 37	SMU9960050	TRL	01	8MU9930110	137144 X1UD	4646	137114 U	128236 82TF	4647	137114 U	128236 82TF	4647	137114 U	128236 82TF	4647	DW38	
DW 38	SMU9960050	TRL	01	8MU9961000	137114 X1TD	4648	137119 *	137134 X1TD	4648	137119 *	137134 X1TD	4648	137119 *	137134 X1TD	4648	DW39	
DW 39	SMU9960050	TRL	04	8MU9931330	137124 8	4650	137124 8	129072 9#TB	4650	137124 8	129072 9#TB	4650	137124 8	129072 9#TB	4650	DW40	
DW 40	SMU9960050	TRL	04	8MU9961000	137124 8	4650	137124 8	137169 X16I	4651	137124 8	137169 X16I	4651	137124 8	137169 X16I	4651	DW41	

INDEX	TAG	OP	NU AT	OPE RAND	PROGRAM 8M99	LOC OP SU	ADDRESS	PGLIN SER REF	COMMENTS
DX 01	8M9961070	LOD	04	8M9921320	SC START ADDR	137134 8	4 129068 9#6H 4652	BZ09	
DX 02	8M9961070	TR	CO	8M99561160	SC START ADDR	137139 1	137169 X16I 4653	BZ10	
DX 03	8M9961100	RCS	01	8M9930120	TEST MAR 8	137144 U	1 128236 82TF 4655	BX02	4654
DX 04	8M9961100	TZB	C1	8M9961150	00 S SEGMENT A	137149 *	1 137164 X1WD 4656	BX09	
DX 05	8M9961100	TZB	C1	8M9961150	TEST MAR 8	137144 U	1 128236 82TF 4655	BX09	
DX 06	8M9961150	TR	00	8M9961160	01 S SEGMENT B	137154 8	4 129064 9#6D 4658	BZ08	4657
DX 07	LOD	04	8M9931310	SB START ADDR	137159 1	137169 X16I 4659	BZ10		
DX 08	TR	00	8M9961160	01 S SEGMENT B	137159 1	137169 X16I 4659	BZ08		
DX 09	8M9961150	LOD	04	8M9931300	SA START ADDR	137164 8	4 129060 9#6E 4660	BZ07	4664
DX 10	8M9961160	UNL	04	8M9930040	SET VCL INITIAL START POSITION	137169 7	4 137504 XVO 4661	296DY40	
DX 11	8M9961160	RCS	01	8M9930040	SET VCL INITIAL START POSITION	137174 U	1 128224 82SD 4662	BW32	
DX 12	8M9961300	TZB	01	8M9961300	TEST MAR 5	137179 *	1 137199 X1ZI 4663	BX18	
DX 13	8M9961150	SET	13	000006 0#6E 4665	2 SEGMENT B UP	137184 B	13 000006 0#6E 4665	AS20	
DX 14	SET	13	8M9911110	000013	SEGTABLE MULTIPLE D OR P COUNT	137189 8	13 122905 2#6E 4666	AS20	
DX 15	LOD	13	8M9911110	000013	SEGTABLE MULTIPLE D OR P COUNT	137189 8	13 122905 2#6E 4665	AS20	
DX 16	AAM	13	8M9962330	INCRAESE VCL TO ZB START POS	137194 6	13 137504 XE#D 4667	DY40		
DX 17	TITLE	13	8M9911110	000013	SEGTABLE MULTIPLE D OR P COUNT	137199 T	137525 X52E 4669	AS20	
DX 18	8M9961300	SGN	00	8M992400-004	SET TWO-PASS SWITCH	137199 T	137525 X52E 4669	AS20	
DX 19	8M9961300	RAD	15	8M9910500	0 INTO ASU 15	137204 H	15 122681 2FHA 4670	AS20	
DX 20	8M9910940	TITLE	01	8M9910940	TEST C BIT POSITION	137209 U	1 122848 28UH 4672	AS06	
DX 21	8M9910940	RCS	01	8M9910940	TEST C BIT POSITION	137214 *	5 137224 XSSD 4673	DX24	
DX 22	8M9910940	TZB	15	8M9910940	TEST FOR NO A BIT - D FOR DROP	137214 *	5 137224 XSSD 4673	DX24	
DX 23	8M9910940	ADD	15	8M9910940	ADD 1 TO ASU 15	137219 G	15 122682 2FHB 4674	AS02	
DX 24	8M9961350	RCS	01	8M9910940	TEST B BIT POSITION	137224 U	1 122849 28U 4675	AS06	
DX 25	8M9961350	TZB	A	8M9910940	TEST B BIT POSITION	137229 *	5 137239 XSTI 4676	297DX27	
DX 26	8M9961380	ADD	15	8M9910940	TEST A BIT POSITION	137234 G	15 122682 2FHB 4677	AS02	
DX 27	8M9961380	TZB	A	8M9910940	TEST A BIT POSITION	137239 U	1 122850 28V6 4678	AS06	
DX 28	8M9961410	ADD	15	8M9910940	TEST 8 BIT POSITION	137249 G	15 122682 2FHB 4680	AS02	
DX 29	8M9961410	TZB	A	8M9910940	TEST 4 BIT POSITION	137244 *	5 137254 XSVD 4679	DX33	
DX 30	8M9961410	RCS	01	8M9910940	TEST 8 BIT POSITION	137254 U	1 122851 28VA 4681	AS06	
DX 31	8M9961440	TZB	A	8M9910940	TEST 4 BIT POSITION	137259 *	5 137269 XSMI 4682	DX33	
DX 32	8M9961440	ADD	15	8M9910940	TEST 2 BIT POSITION	137264 G	15 122682 2FHB 4683	AS02	
DX 33	8M9961440	RCS	01	8M9910940	TEST 2 BIT POSITION	137269 *	5 137299 XSLI 4688	298DX39	
DX 34	8M9961470	TZB	A	8M9910940	TEST 1 BIT POSITION	137274 *	5 137285 28VC 4687	AS06	
DX 35	8M9961470	ADD	15	8M9910940	TEST 1 BIT POSITION	137279 G	15 122682 2FHB 4686	AS02	
DX 36	8M9961470	TZB	A	8M9910940	TEST 1 BIT POSITION	137284 U	1 122853 28VC 4687	AS06	
DX 37	8M9961470	RCS	01	8M9910940	TEST 1 BIT POSITION	137289 *	5 137299 XSLI 4688	4706	
DX 38	8M9961500	ADD	15	8M9910940	TEST 1 BIT POSITION	137304 *	5 137314 XT/D 4701	DX42	
DX 39	8M9961500	TZB	A	8M9910940	TEST 1 BIT POSITION	137309 G	15 122682 2FHB 4702	AS02	
DX 40	8M9961500	ADD	15	8M9910940	TEST 1 BIT POSITION	137314 N	15 137339 XCCI 4703	DY04	
DX 41	8M9961550	TZB	A	8M9910940	TEST 1 BIT POSITION	137314 N	15 128245 8BDE 4705	BX11	
DX 42	8M9961550	TRZ	15	8M9930200	STORE ADDR COUNT	137319 F	15 128245 8BDE 4705	BX11	
DX 43	8M9961550	TITLE	15	8M9930200	STORE ADDR COUNT	137319 F	15 128245 8BDE 4705	DX44	
DX 44	8M9961550	TRZ	15	8M9961550	BYPASS DROP TAB IF ASU 15 ZERO	137319 F	15 128245 8BDE 4705	DX44	

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM	8MU99	-	-	COMMENTS	LOC	OP SU	ADDRESS	PGLIN	SER REF																																																																																																																																																																																																																																																																																																																																																				
DY 01	SET	13	000006	8MU9911070	000006	SET ADDR FOR DROP	137324 B	13	000006 06#6 4707	137334 1	137494 X49D 4709	AS15	DY 03	TR	00	8MU9962300	000006	SET ADDR FOR DROP	137329 8	13	122887 2HYG 4703	137334 1	137494 X49D 4709	AS15																																																																																																																																																																																																																																																																																																																																										
DY 02	LOD	13	8MU9911070	000006	SET ADDR FOR DROP	137324 B	13	000006 06#6 4707	137334 1	137494 X49D 4709	AS15	DY 03	TR	00	8MU9962300	000006	SET ADDR FOR DROP	137329 8	13	122887 2HYG 4703	137334 1	137494 X49D 4709	AS15																																																																																																																																																																																																																																																																																																																																											
DY 04	8MU9961600	SET	13	000006	8MU9911080	000006	SET ADDR FOR PICK	137339 B	13	000006 06#6 4710	137344 8	13	122893 2HZC 4711	AS16	DY 05	LOD	13	8MU9911080	000006	SET ADDR FOR PICK	137339 B	13	000006 06#6 4710	137344 8	13	122893 2HZC 4711	AS16																																																																																																																																																																																																																																																																																																																																							
DY 06	8MU9961600	SET	13	000006	8MU9911080	000006	SET ADDR FOR PICK	137349 1	137364 X36D 4712	299DY09	DY 07	8MU9961900	SET	13	000006	8MU9911070	000006	SET INCREMENT FOR PICK	137354 B	13	000006 06#6 4713	137359 8	13	122887 2HYG 4714	AS15																																																																																																																																																																																																																																																																																																																																									
DY 08	8MU9962000	LOD	13	8MU9911070	000006	RESET TWO-PASS SWITCH	137364 T	137525 X52E 4715	DZ01	DY 09	8MU9962000	SGN	00	8MU9962400-004	000006	SET INCREMENT FOR PICK	137364 T	137525 X52E 4715	DZ01	DY 10	ADM	00	8MU9962400-004	000006	SET INCREMENT FOR PICK	137369 6	137525 X52E 4716	DZ01																																																																																																																																																																																																																																																																																																																																						
DY 11	RAD	15	8MU99110500	0 INTO ASU 15	0 INTO ASU 15	0 INTO ASU 15	137374 H	15	122681 2FHA 4717	A041	DY 12	TEST C BIT POSITION	8MU9910940602	TEST A BIT POSITION	137404 G	15	122682 2FHB 4724	300A506	DY 13	RCVS	01	8MU9962120	01	TEST 8 BIT POSITION	137424 U	1	122851 28VA 4728	AS06	DY 14	TZB	02	8MU9962120	02	TEST 4 BIT POSITION	137434 G	15	122682 2FHB 4730	A042	DY 15	ADD	15	8MU9962150	02	TEST 4 BIT POSITION	137439 U	1	122852 28VB 4731	AS06	DY 16	RCVS	01	8MU9962120	01	TEST 8 BIT POSITION	137444 *	2	137454 X4ND 4732	DY28	DY 17	RCVS	01	8MU9962120	01	TEST 4 BIT POSITION	137444 *	2	137454 X4ND 4732	DY28	DY 18	ADD	15	8MU9962150	02	TEST 4 BIT POSITION	137444 *	2	137454 X4ND 4732	DY28	DY 19	RCVS	01	8MU9962090	01	TEST A BIT POSITION	137441 *	2	137424 X4KD 4726	DY22	DY 20	TZB	02	8MU9962120	02	TEST A BIT POSITION	137414 *	2	137424 X4KD 4726	DY22	DY 21	ADD	15	8MU9962150	02	TEST 8 BIT POSITION	137419 G	15	122682 2FHB 4727	A042	DY 22	RCVS	01	8MU9962120	01	TEST 8 BIT POSITION	137424 U	1	122851 28VA 4728	AS06	DY 23	TZB	02	8MU9962150	01	TEST 4 BIT POSITION	137434 G	15	122682 2FHB 4730	A042	DY 24	ADD	15	8MU9962150	02	TEST 4 BIT POSITION	137434 G	15	122682 2FHB 4730	A042	DY 25	RCVS	01	8MU9962150	01	TEST 4 BIT POSITION	137439 U	1	122852 28VB 4731	AS06	DY 26	TZB	02	8MU9962180	01	TEST 2 BIT POSITION	137444 *	2	137454 X4ND 4732	DY28	DY 27	ADD	15	8MU9962180	02	TEST 2 BIT POSITION	137445 *	2	137469 X40I 4735	DY31	DY 28	RCVS	01	8MU9962180	01	TEST 2 BIT POSITION	137454 U	1	122853 28VC 4734	AS06	DY 29	TZB	02	8MU9962210	01	TEST 2 BIT POSITION	137455 *	2	137469 X40I 4735	DY31	DY 30	ADD	15	8MU9962250	02	TEST 1 BIT POSITION	137474 *	2	137484 X4GD 4738	DY34	DY 31	RCVS	01	8MU9962210	01	TEST 1 BIT POSITION	137469 U	1	122854 2FHB 4737	301A506	DY 32	TZB	02	8MU9962250	01	TEST 1 BIT POSITION	137474 *	2	137484 X4GD 4739	A042	DY 33	ADD	15	8MU9962250	02	BYPASS PICK TAB IF ASU 15 ZERO	137484 N	15	137534 XEC0 4740	DZ03	DY 34	8MU9962250	TRZ	15	8MU9962420	000005	ADD TAB INCREMENT TO VAR LODER	137494 E	13	137504 XEB0 4743	DY40	DY 35	TITLE	15	8MU9930200	ST	STORE ADDER COUNT	137494 F	15	128245 3BDE 4742	BX11	DY 36	8MU9962300	AM	13	8MU9962330	000000	ADD TAB INCREMENT TO VAR LODER	137499 B	13	000005 06#5 4744	DY40	DY 37	8MU9962300	AM	13	8MU9962330	000000	ADD TAB INCREMENT TO VAR LODER	137499 E	13	137504 XEB0 4743	DY40	DY 38	8MU9962300	SET	13	000005	SET REPLACER	137509 G	13	128245 8BUE 4747	BX11	DY 39	TITLE	13	000000	ADD	VARIABLE TAB COUNT LODER	137504 8	13	000000 06#0 4746	4745	DY 40	8MU9962300	LOD	13	000000	LOAD VTCL	137514 8	4	137504 XV0D 4749	DY40	DY 41	TITLE	13	000000	ADD	INCRAESE COUNT LODER	137519 7	4	137524 XV2D 4750	DY46	DY 42	TITLE	04	8MU9962330	LOD	04	SET REPLACER	137519 7	4	137524 XV2D 4750	DY46	DY 43	TITLE	04	8MU9962330	LOD	04	LOAD VTCL	137514 8	4	137504 XV0D 4749	4748	DY 44	TITLE	04	8MU9962330	LOD	04	SET REPLACER	137524 7	4	137524 XV2D 4752	4751	DY 45	8MU9962390	UNL	13	000000	REPLACE COUNT IN TABLE	137524 7	13	000000 06#0 4752	4752

INDEX	TAG	OP	NU AT	OPRAND	PROGRAM 8M999	COMMENTS	LOC OF SU	ADDRESS	PGM IN SER REF
DZ 01	8M99962400	NOP	00	8M9961900	S TWO-PASS SWITCH	137529 A	137354 X35D 4753	3020D97	
DZ 02					VARIABLE RETRACE TRANSFER	137354 1	121304 1300 4755	A115	
DZ 03	8M99962420	TR	00	8M9904940	HALF SELECT CORE BEAT-S14 ABB	-S15 NBB			
DZ 04					SECTIONS 14 AND 15-				
DZ 05									4757
DZ 06									4758
DZ 07									
DZ 08	8M99965000	LASN	00	8M9910510	RESET ALL S-15 SWITCHES	A			
DZ 09	8M99965000	SET	00	8M99001	SET ALL S-15 SWITCHES				
DZ 10		LOD	00	8M9910510					
DZ 11		UNL	00	8M996100-004					
DZ 12		UNL	00	8M996100-004					
DZ 13		UNL	00	8M996100-004					
DZ 14		UNL	00	8M996100-004					
DZ 15		UNL	00	8M996100-004					
DZ 16		UNL	00	8M9972880-004					
DZ 17		TR	00	8M9965400					
DZ 18	8M9965130	SGN	00	8M996520-004	SET ALL S-15 SWITCHES				
DZ 19		SGN	00	8M996100-004					
DZ 20		SGN	00	8M996100-004					
DZ 21		SGN	00	8M996100-004					
DZ 22		SGN	00	8M9971900-004					
DZ 23		SGN	00	8M9972880-004					
DZ 24	8M9965400	RCVS	01	8M99319106004	BLANK WORK AREA				
DZ 25		RCVS	01	8M99319106004	BLANK WORK AREA				
DZ 26				600000	00				
DZ 27				140094 U	1 129374 93XD 4778				
DZ 28				140094 \$	000004 0004 4779				
DZ 29				4777					
DZ 30					140094 %				
DZ 31					140104 %	5 129370 91X6 4782			
DZ 32					140104 %	5 129371 91XA 4783			
DZ 33					140104 %	5 129372 91XB 4784			
DZ 34					140114 %	5 129373 91XC 4785			
DZ 35					140114 %	5 129374 91XD 4786			
DZ 36					140119 %	5 129374 91XA 4786			
DZ 37					140129 %	5 129380 280H 4800			
DZ 38					140129 %	5 129389 9381 4801			
DZ 39					140134 %	5 129389 9381 4801			
DZ 40					140134 %	INTO WORK AREA			
DZ 41					8M9931940	INTO WORK AREA			

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	COMMENT	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
EA 01	SBR	08	8M9931940-004											
EA 02	SBR	08	8M9931940-003											
EA 03	SBR	08	8M9931940-002											
EA 04	SBR	08	8M9931940-001											
EA 05	SBR	08	8M9931940-001											
EA 06	RCVS	01	000001		SET OR RESET ALL LOWER 8OK			140164 /	000001	0001	4809	C809		
EA 07	RCVS	01	000001					140164 B	000001	0001	4808	C809		
EA 08	SND	00	8M9931920604		SET GROUP 2 TO GROUP 1			140169 U	1	129379 93X1	4809	C807		
EA 09	SND	01	8M9931930604		SET GROUP 3 TO GROUP 4			140174 /	1	129379 93TD	4810	C806		
EA 10	SND	00	8M9931941940					140179 U	1	129384 93YD	4811	C808		
EA 11	SET	00	000001					140184 /	1	129389 9381	4812	306C809		
EA 12	SET	00	000001					140189 B	000001	0001	4814	C813		
EA 13	RCVS	01	000004		AT 0004			140189 U	1	000004 00A4	4815			
EA 14	8M9965720	NOP	00	8M9965750	S-15 SWITCH			140199 A	140214 -21D	4817	EAI9			
EA 15	8M9965720	NOP	00	8M9965750	S-15 SWITCH			140204 /	140219 -21I	4820	EAI8			
EA 16	8M9965750	SND	00	8M9931910	S NO BITS			140209 I	140219 -21I	4820	EAI8			
EA 17	SND	00	8M9931910					140204 /	129374 93TD	4819	C806			
EA 18	SND	00	8M9931910					140209 I	140219 -21I	4820	EAI8			
EA 19	8M9965750	SND	00	8M9931940	5 ALL BITS			140214 /	129389 9381	4821	C809			
EA 20												4822		
EA 21	3M9965780	SET	00	000199	AT 0009- 995 CHARS-FROM 0004			140219 B	000199 0199 4824	4823				
EA 22	3M9965780	SET	00	000199	AT 0009- 995 CHARS-FROM 0004			140224 /	000004 00C4 4825	4823				
EA 23	RAD	02	000004		AT 0009- 995 CHARS-FROM 0004			140224 /	000199 0199 4824	4823				
EA 24	RAD	02	8M9910690	79	AT 1004-1000 CHARS-FROM 0004			140229 H	2 122711 27JA	4826				
EA 25	RAD	02	000200		AT 1004-1000 CHARS-FROM 0004			140234 B	000200 0200 4827	4826				
EA 26	8M9965820	SND	00	000004	AT 1004-1000 CHARS-FROM 0004			140239 /	000304 0004 4828	4826				
EA 27												4829	307	
EA 28	SUS	02	8M9910510		80K MEM FILL COMPLETE			140244 P	2 122682 26OB	4330	A042			
EA 29	TRZ	02	8M996000		80K MEM FILL COMPLETE			140249 N	2 140259 -2NI	4831	A042			
EA 30	TR	00	8M995820					140254 /	140239 -23I	4832	A042			
EA 31	8M9966000	LDA	00	8M9951500	INITIAL TBA LINE TABLE ADDR			140259 *	14844 0440 4833	EX47				
EA 32	8M9966000	LDA	00	8M9951500	INITIAL TBA TABLE LOADER			140264 *	140274 -27D	4834	EAS5			
EA 33														
EA 34	8M9966050	SET	03	000006	4835			140269 B	3 000006 00B6 4835	4835				
EA 35	8M9966060	LOD	03	000000	4837			140274 8	3 000000 00B6 4837	4837				
EA 36	8M9966100	NOP	00	8M9966350	S-15 SWITCH			140279 A	140294 -29D	4838	EAO40			
EA 37	ULA	03	8M9966350		SET TBA ALL BIT UNLOADER			140284 *	3 140324 -35D	4839	E806			
EA 38	TR	00	8M9966300					140289 1	140309 -30I	4840	E802			
EA 39														
EA 40	8M9966170	SUB	03	8M9910530	REDUCE NO-BIT RCV ADDR BY 5			140294 P	3 122686 26HF	4842	AR03			
EA 41	ULA	03	8M9966550		SET TBA NO-BIT RECEIVER			140299 *	3 140359 -3E1	4843	E816			
EA 42														

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INDEX	TAG	OP	NU AT	OPERAEND	PROGRAM BMU99	-	-	COMMENTS	LOC OP SU	ADDRESS	PGLIN SER
E8 01					S-14 TBA ALL BIT BEAT AREA						
E8 02	8MU9966300	RAD	02	8MU99999990	SET BEAT CTR	140309 H	2	039995 195 4846	4845		EY03
E8 03	SET	00	000010	140314 B	10 ALL BIT CHARS	140319 8		129389 9381 4848	C809		
E8 04	L0D	00	8MU9931940	10 ALL BIT CHARS	140319 8						
E8 05	TITLE		8MU9966350	UNL	NOP 00	000000	000000	POSSIBLE ALL BIT SENDER	140324 7	000000 0000 4850	4849
E8 06	8MU9966350	UNL	00	000000	TBA BEAT UNLOADER	140324 7	000000 0000 4850				
E8 07	TITLE				NOP 00	000000	000000	POSSIBLE ALL BIT SENDER	140329 A	000000 0000 4851	
E8 08	TITLE										
E8 09	SUB	02	8MU9910510	REDUCE BEAT CTR BY 1	140334 P	2	122682 260B 4853	4852		A042	
E8 10	TRZ	02	8MU9967000	REDUCE BEAT CTR BY 1	140333 N	2	140384 -30D 4854	4853		E823	
E8 11	TR	00	8MU9966350		140334 N	1	140324 -32D 4855	4855		E806	
E8 12	TITLE		8MU9966500	S-15 TBA NO BIT BEAT AREA	140349 H	2	039995 195 4857	4856		EY03	
E8 13	RAD	02	8MU9999990	SET BEAT CTR	140354 B		000002 0002 4858				
E8 14	SET	00	000002		140359 U	1	000000 00#0 4860	4859			
E8 15	TITLE		8MU9966550	SET BEAT CTR	140359 U	1	129374 937D 4861	309C806			
E8 16	TRZ	02	8MU9931910	10 NO BITS SENDER	140359 U	1	000000 00#0 4860	4862			
E8 17	TR	00	8MU9966550		140359 N	2	140384 -30D 4864	4863			
E8 18	TITLE		8MU9910510	REDUCE BEAT CTR BY 1	140369 P	2	122682 260B 4863	4862			
E8 19	SUB	02	8MU997000	REDUCE BEAT CTR BY 1	140369 P	2	122682 260B 4863	4862			
E8 20	TRZ	02	8MU9966550		140374 N	2	140384 -30D 4864	4863			
E8 21	TR	00	8MU9966550		140379 1		140359 -351 4865	4866			
E8 22	TITLE		Y LINE INTERROG - X DIRECTION	LOD TABE LOADER	140384 #	1	140274 -27D 4867	EA35			
E8 23	8MU9967000	LDA	00	8MU9966060	LOD TABE LOADER	140274					
E8 24	UL	00	8MU9967210	SET V TAB CCA	140389 *	1	140429 -42I 4868	E833			
E8 25	UL	00	8MU9967210	SET X TAB ADDR LOADER	140394 *	1	140414 -41D 4869	E830			
E8 26	LDA	00	8MU9930910	000010	140394 #	1	128279 8271 4870	BX22			
E8 27	AA	00	8MU99672110	INCRT 10 X BASE 64 TABLE POSIT	140404 #	1	140414 -41D 4871	E830			
E8 28	TITLE		INCRT 10 X BASE 64 TABLE POSIT	000010	140394 #	1	128279 8271 4870	E830			
E8 29	SET	00	000006	X BASE 64 TABE LOADER	140409 S	000006 0006 4873	4872				
E8 30	8MU9967110	LDD	00	000000	000000 0000 4874						
E8 31	UL	00	8MU9967300	SET Y CURRENT YIA	140414 3						
E8 32	8MU9967200	LDA	03	8MU9967300	LOD CURRENT YIA	140419 *	1	140479 -47I 4875	EC04		
E8 33	8MU9967210	CMP	03	8MU9967210	VARIBL TBA CONTENTS CMP ADDR	140424 #	3	140479 -46I 4876	310EC04		
E8 34	TR	00	8MU9969000	BYPASS Y INTERROG - IF EQUAL	140429 4	3	000000 0060 4877	ED26			
E8 35	TITLE		REDUCE YIA BY 9	140439 P	3	122690 2616 4880	4879				
E8 36	SUB	03	8MU9910560	REDUCE YIA BY 9	140439 P	3	122690 2616 4880	AR07			
E8 37	ULA	03	8MU9967300	RE-RESET YIA	140444 *	3	140479 -46I 4881	EC04			
E8 38	FCVS	01	8MU99689506001	SET POST-INTERROG RETURN	140449 U	1	140766 -7WF 4882	ED24			
E8 39	TSL	01	8MU9967280		140454 1	1	140454 -4W/ 4883	EB42			
E8 40	TITLE		GO TO Y INCREMENTS	140459 1		140774 -77D 4885	ED26				
E8 41	8MU9967270	TR	00	8MU9969000							
E8 42	8MU9967280	SET	00	800007	00007 0007 4886	140464 B					
E8 43	8MU9967280	LDD	00	8MU9912254		140469 2	123482 3488 4887	A004			

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8M939	-	-	COMMENTS	LOC OP SU	ADDRESS	PGLIN SER REF
EC 01		UNL	00	8M99910940	RESET BIT BREAKDOWN				140474 7	122854 285D 4888	A506
EC 02											
EC 03											
EC 04	8M99967300	RCVS	01	000000	X AND Y INTERROGATION ADDR	S-15 SWITCH			140479 U	1 000000 00#0 4901	
EC 05	8M9996732C	NOP	00	8M99967500							
EC 06											
EC 07		TZB	01	8M99967360							
EC 08											
EC 09	8M99967360	TZB	02	8M99967380							
EC 10											
EC 11	8M99967380	TZB	04	8M99910940-001							
EC 12											
EC 13											
EC 14	8M99967400	TZB	08	8M99967400							
EC 15											
EC 16	8M99967440	TZB	09	8M99910940-002							
EC 17											
EC 18	8M99967460	TZB	C	8M99968000							
EC 19											
EC 20											
EC 21	8M99967500	TZB	01	8M99967520							
EC 22											
EC 23	8M99967520	UNL	08	8M99967530							
EC 24	8M99967530	TZS	02	8M99967550							
EC 25	8M99910940		D	8M99910940-001	-----D-						
EC 26	8M99967550	UNL	08	8M99910940-002	----D--						
EC 27	8M99967560	TZB	4	8M99967580							
EC 28											
EC 29	8M99967580	UNL	08	8M99910940-003	----D---						
EC 30	8M99967590	TZB	8	8M99967610							
EC 31											
EC 32	8M99967610	UNL	08	8M99967620							
EC 33	8M99967620	TZB	A	8M99967640							
EC 34											
EC 35	8M99967640	UNL	08	8M99910940-005	----D----						
EC 36	8M99967650	TZB	3	8M99967670							
EC 37											
EC 38	8M99967670	UNL	08	8M99910940-006	D-----						
EC 39	8M99967680	TZB	C	8M99967700							
EC 40											
EC 41	8M99967700	UNL	08	8M99968003							
EC 42	8M99967700	UNL	08	8M99910940-006	DEFINITE ERROR						

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INDEX TAG OP NU AT OPERAND PROGRAM BMU99 - - COMMENTS LOC OP SU ADDRESS PGLIN SER REF  
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INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM BMU99	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF	
ED 01	8M9968000 SET	00	000007	LDA	00	BMU9968100	LD CURRENT X OR Y IA	140694 #	140479 - 471	4945	EC04	AS02	ED 07	UNL	00	
ED 02	8M9968100 LDA	00	000007	00007	4540	BMU9968000 SET	INTO T-O	140694 #	140479 - 471	4945	EC04	AS02	ED 08	SET	00	
ED 03	8M9968150 NOP	00	000004	000004	4947	BMU9968200	S-15 SWITCH	140704 B	140729 0004	4947	EC04	AS02	ED 09	8M9968150 NOP	00	
ED 04	8M9968200 LDD	00	000004	000004	4946	BMU9968210	AB.	140724 8	129168 916H	4951	315CA02	AS04	ED 12	8M9968200 LDD	00	
ED 05	8M9968100 LDA	00	000004	000004	4945	BMU9968000 SET	INTO T-O	140694 #	140479 - 471	4945	EC04	AS02	ED 06	8M9968100 LDA	00	
ED 06	8M9968100 LDA	00	000007	00007	4540	BMU9968100 LDA	LD CURRENT X OR Y IA	140694 #	140479 - 471	4945	EC04	AS02	ED 07	UNL	00	
ED 07	8M9968150 NOP	00	000004	000004	4946	BMU9968200	S-15 SWITCH	140704 A	140729 0004	4947	EC04	AS02	ED 08	SET	00	
ED 08	8M9968150 NOP	00	000004	000004	4947	BMU9968210	AB.	140714 8	129172 917B	4949	EC04	AS02	ED 09	8M9968150 NOP	00	
ED 09	8M9968200 LDD	00	000004	000004	4948	BMU9968210	N.B.	140714 8	129172 917B	4949	EC04	AS02	ED 10	8M9968200 LDD	00	
ED 10	8M9968150 NOP	00	000004	000004	4948	BMU9968210	NO ERROR	140719 1	140729 - 721	4950	ED13		ED 11	8M9968210	00	
ED 11	8M9968200 LDD	00	000004	000004	4948	BMU9968210	NO ERROR	140719 1	140729 - 721	4950	ED13		ED 12	8M9968200 LDD	00	
ED 12	8M9968200 LDD	00	000004	000004	4948	BMU9968210	NO ERROR	140724 8	122839 283I	4946	EC04	AS02	ED 13	8M9968210 UNL	00	
ED 13	8M9968210 UNL	00	000004	000004	4948	BMU9968200	INTO T-O	140724 8	122845 284E	4952	AS04	AS02	ED 14	8M9968210 UNL	00	
ED 14	8M9968210 UNL	00	000004	000004	4948	BMU9968210	GO TO ERROR INDICATION	140734 1	141374 J37D	4953	EH11		ED 15	8M9968200 RCVS	01	
ED 15	8M9968200 RCVS	01	000004	000004	4948	BMU9968004	UNITS POSITION OF X OR Y IA	140739 U	140479 - 4X1	4954	EC04		ED 16	8M9968200 RCVS	01	
ED 16	8M9968200 RCVS	01	000004	000004	4955	BMU9968004	UNITS POSITION OF X OR Y IA	140744 *	140759 - X51	4955	ED21		ED 17	8M9968200 RCVS	01	
ED 17	8M9968200 RCVS	01	000004	000004	4956	BMU9968004	UNITS POSITION OF X OR Y IA	140744 *	140759 - 7VI	4956	ED21		ED 18	8M9968200 RCVS	00	
ED 18	8M9968200 RCVS	00	000004	000004	4957	BMU9968004	UNITS POSITION OF X OR Y IA	140754 1	140769 - 761	4957	ED24		ED 19	TITLE		
ED 19	TITLE					BMU9968004	UNITS POSITION OF X OR Y IA	140754 1	140769 - 761	4957	ED24		ED 20	TITLE		
ED 20	TITLE					BMU9967300	INCRESSE X OR Y IA BY 0001	140759 0	140479 - 4X1	4956	EC04	AS04	ED 21	8M9968900 AM	01	
ED 21	8M9968900 AM	01	000004	000004	4956	BMU9967300	INCRESSE X OR Y IA BY 0001	140764 1	140464 - 460	4961	EC04	AS04	ED 22	8M9967280	TR	00
ED 22	8M9967280	TR	00	000004	000004	4956	BMU9967300	INCRESSE X OR Y IA BY 0001	140764 1	140464 - 460	4961	EC04	AS04	ED 23	8M996895G TR	00
ED 23	8M996895G TR	00	000004	000004	4962	BMU9967270	X OR Y POST-T0 CHAR-INTRG EXIT	140769 1	140459 - 451	4963	EB41		ED 24	8M996895G TR	00	
ED 24	8M996895G TR	00	000004	000004	4964	BMU9967300	CURRENT VIA	140774 *	140479 - 471	4965	EC04		ED 25	TEST FOR END OF Y INTRG-T119		
ED 25	TEST FOR END OF Y INTRG-T119		00	000004	000004	4964	BMU9967300	CURRENT VIA	140774 *	140479 - 471	4965	EC04		ED 26	8M9969000 LDA	00
ED 26	8M9969000 LDA	00	000004	000004	4965	BMU9967300	PLACE IN REFERENCE AREA	140774 *	140450 0456	4966	EX50		ED 27	8M9969000 UNL	00	
ED 27	8M9969000 UNL	00	000004	000004	4966	BMU9967300	PLACE IN REFERENCE AREA	140779 7	140450 0456	4966	EX50		ED 28	TITLE		
ED 28	TITLE					BMU9967300	PLACE IN REFERENCE AREA	140779 7	140450 0456	4966	EX50		ED 29	8M9991900C01 TEN THOUSANDS ORDER		
ED 29	8M9991900C01 TEN THOUSANDS ORDER		01	000004	000004	4966	BMU9967300	PLACE IN REFERENCE AREA	140784 U	140446 04UF	4969	EX50		ED 30	8M9991900C01 TEN THOUSANDS ORDER	
ED 30	8M9991900C01 TEN THOUSANDS ORDER		01	000004	000004	4968	BMU9967300	PLACE IN REFERENCE AREA	140784 U	140446 04UF	4969	EX50		ED 31	8M9991900C01 TEN THOUSANDS ORDER	
ED 31	8M9991900C01 TEN THOUSANDS ORDER		02	000004	000004	4971	BMU9967300	PLACE IN REFERENCE AREA	140784 U	140439 - 8L1	4971	EE01		ED 32	8M9991900C01 TEN THOUSANDS ORDER	
ED 32	8M9991900C01 TEN THOUSANDS ORDER		02	000004	000004	4971	BMU9967300	PLACE IN REFERENCE AREA	140784 U	140439 - 8L1	4971	EE01		ED 33	8M9991900C01 TEN THOUSANDS ORDER	
ED 33	8M9991900C01 TEN THOUSANDS ORDER		02	000004	000004	4972	BMU9967300	PLACE IN REFERENCE AREA	140784 U	140439 - 8T1	4974	EE01		ED 34	8M9991900C01 TEN THOUSANDS ORDER	
ED 34	8M9991900C01 TEN THOUSANDS ORDER		01	000004	000004	4972	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 35	8M9991900C01 TEN THOUSANDS ORDER	
ED 35	8M9991900C01 TEN THOUSANDS ORDER		01	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 36	8M9991900C01 TEN THOUSANDS ORDER	
ED 36	8M9991900C01 TEN THOUSANDS ORDER		01	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 37	8M9991900C01 TEN THOUSANDS ORDER	
ED 37	8M9991900C01 TEN THOUSANDS ORDER		01	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 38	8M9991900C01 TEN THOUSANDS ORDER	
ED 38	8M9991900C01 TEN THOUSANDS ORDER		01	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 39	8M9991900C01 TEN THOUSANDS ORDER	
ED 39	8M9991900C01 TEN THOUSANDS ORDER		01	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 40	8M9991900C01 TEN THOUSANDS ORDER	
ED 40	8M9991900C01 TEN THOUSANDS ORDER		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 41	Y INTERROG-X SCALE INCREMENTS	
ED 41	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 42	Y INTERROG-X SCALE INCREMENTS	
ED 42	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 43	Y INTERROG-X SCALE INCREMENTS	
ED 43	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 44	Y INTERROG-X SCALE INCREMENTS	
ED 44	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 45	Y INTERROG-X SCALE INCREMENTS	
ED 45	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 46	Y INTERROG-X SCALE INCREMENTS	
ED 46	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 47	Y INTERROG-X SCALE INCREMENTS	
ED 47	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 48	Y INTERROG-X SCALE INCREMENTS	
ED 48	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 49	Y INTERROG-X SCALE INCREMENTS	
ED 49	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 50	Y INTERROG-X SCALE INCREMENTS	
ED 50	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 51	Y INTERROG-X SCALE INCREMENTS	
ED 51	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 52	Y INTERROG-X SCALE INCREMENTS	
ED 52	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 53	Y INTERROG-X SCALE INCREMENTS	
ED 53	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 54	Y INTERROG-X SCALE INCREMENTS	
ED 54	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 55	Y INTERROG-X SCALE INCREMENTS	
ED 55	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 56	Y INTERROG-X SCALE INCREMENTS	
ED 56	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 57	Y INTERROG-X SCALE INCREMENTS	
ED 57	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 58	Y INTERROG-X SCALE INCREMENTS	
ED 58	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 59	Y INTERROG-X SCALE INCREMENTS	
ED 59	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 60	Y INTERROG-X SCALE INCREMENTS	
ED 60	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 61	Y INTERROG-X SCALE INCREMENTS	
ED 61	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 62	Y INTERROG-X SCALE INCREMENTS	
ED 62	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50		ED 63	Y INTERROG-X SCALE INCREMENTS	
ED 63	Y INTERROG-X SCALE INCREMENTS		00	000004	000004	4973	BMU9967300	PLACE IN REFERENCE AREA	140809	1408448 04UH	4975	EX50</				

INDEX TAG OP NU AT OPERAND PROGRAM BMU99 TENS ORDER TEST FOR NO 1 BIT TEST FOR NO 1 BIT COMMENTS LOC OP SU ADDRESS PGLIN SER REF

EE 01	BMU9969400	RCVS	01	BMU99673006003	TENS ORDER	TEST FOR NO 1 BIT	140839 U	I 140478 -4XH 4982	EC04	EE 02	BMU9969400	TZB	01	BMU99673006003	TENS ORDER	TEST FOR NO 1 BIT	140844 *	I 140899 -8ZI 4983	31TEE18																																																																																																				
EE 03		RCVS	01	BMU99673006002	HUNDREDS ORDER	TEST FOR NO 1 BIT	140849 U	I 140477 -4XG 4985	EC04	EE 04		TZB	01	BMU99673006002	HUNDREDS ORDER	TEST FOR NO 1 BIT	140854 *	I 140889 -8YI 4986	EE15																																																																																																				
EE 05		RCVS	01	BMU99673006001	THOUSANDS ORDER	TEST FOR NO 1 BIT	140859 U	I 140476 -4XF 4988	EC04	EE 06		TZB	01	BMU9969540	CHK FOR ---1---	TEST FOR NO 1 BIT	140854 *	I 140477 -4XG 4985	EC04																																																																																																				
EE 07		RCVS	01	BMU99673006001	THOUSANDS ORDER	TEST FOR NO 1 BIT	140859 U	I 140476 -4XF 4988	EC04	EE 08		TZB	01	BMU99673006001	THOUSANDS ORDER	TEST FOR NO 1 BIT	140864 *	I 140879 -8XI 4989	EE12																																																																																																				
EE 09		LDA	00	BMU99673006001	TEST FOR NO 1 BIT	008890	140869 #	I 140879 -8XI 4989	EE12	EE 10		LDA	00	BMU9969570	CHK FOR ---1---	TEST FOR NO 1 BIT	140869 #	I 140874 31TD 5000	AT09																																																																																																				
EE 10		LDA	00	BMU99673006001	TEST FOR NO 1 BIT	008890	140869 #	I 140874 31TD 5000	AT09	EE 11		LDA	00	BMU9969570	CHK FOR ---1---	TEST FOR NO 1 BIT	140874 I	I 140904 -900 5001	EE19																																																																																																				
EE 12		LDA	00	BMU9969520	CHK FOR ---1---	TEST FOR NO 1 BIT	140879 #	I 140904 -900 5001	AT06	EE 13		LDA	00	BMU9969570	CHK FOR ---1---	TEST FOR NO 1 BIT	123159 31TD 5003	AT06	EE 14		LDA	00	BMU9969520	CHK FOR ---1---	TEST FOR NO 1 BIT	123159 31TD 5003	AT06																																																																																												
EE 15		LDA	00	BMU9969540	CHK FOR ---1---	TEST FOR NO 1 BIT	140889 #	I 140904 -900 5004	AT06	EE 16		LDA	00	BMU9969570	CHK FOR ---1---	TEST FOR NO 1 BIT	123149 31TD 5006	AT06	EE 17		LDA	00	BMU9969570	CHK FOR ---1---	TEST FOR NO 1 BIT	140894 I	I 140904 -900 5007	EE19																																																																																											
EE 18		LDA	00	BMU9969560	CHK FOR ---1---	TEST FOR NO 1 BIT	140889 #	I 140904 -900 5006	AT06	EE 19		LDA	00	BMU9969570	CHK FOR ---1---	TEST FOR NO 1 BIT	123149 31TD 5005	AT06	EE 20		LDA	00	BMU9969570	CHK FOR ---1---	TEST FOR NO 1 BIT	140904 #	I 140879 8ZT 5010	31EEC04																																																																																											
EE 21		LDA	00	BMU9970000	X LINE INTERROG-Y DIRECTION	TEST FOR NO 1 BIT	140914 #	I 14024 -2ZD 5013	5012	EE 22		LDA	00	BMU9970000	X LINE INTERROG-Y DIRECTION	TEST FOR NO 1 BIT	140914 #	I 14024 -2ZD 5013	5012	EE 23		LDA	00	BMU9970210	SET VAR TBA COUNTS CMP ADDR	TEST FOR NO 1 BIT	140919 *	I 140959 -951 5014	EE35																																																																																										
EE 24		LDA	00	BMU9970210	SET VAR TBA COUNTS CMP ADDR	TEST FOR NO 1 BIT	140919 *	I 140959 -951 5014	EE35	EE 25		LDA	00	BMU9970210	SET VAR TBA COUNTS CMP ADDR	TEST FOR NO 1 BIT	140924 *	I 140944 -940 5015	EE32	EE 26		LDA	00	BMU9970210	SET VAR TBA COUNTS CMP ADDR	TEST FOR NO 1 BIT	140924 *	I 140944 -940 5015	EE32																																																																																										
EE 27		LDA	00	BMU9970210	SET VAR TBA COUNTS CMP ADDR	TEST FOR NO 1 BIT	140924 *	I 140944 -940 5015	EE32	EE 28		LDA	00	BMU9970110	SET TAB ADDR LOADER	TEST FOR NO 1 BIT	140939 B	000006 0006 5019	5018	EE 29		LDA	00	BMU9970110	SET TAB ADDR LOADER	TEST FOR NO 1 BIT	140939 B	000006 0006 5019	5018	EE 30		LDA	00	BMU9970200	SET X INTERROG ADDR	TEST FOR NO 1 BIT	140944 8	000000 0000 5020	5025	EE 31		LDA	00	BMU9970210	SET X INTERROG ADDR	TEST FOR NO 1 BIT	140944 *	I 140479 -471 5021	EE07																																																																						
EE 32		LDA	00	BMU9970210	SET X INTERROG ADDR	TEST FOR NO 1 BIT	140944 *	I 140479 -471 5021	EE07	EE 33		LDA	00	BMU9971000	VARIABLE TBA CONTENTS CMP ADDR	TEST FOR NO 1 BIT	140954 #	I 140479 -471 5022	EE04	EE 34		LDA	00	BMU9971000	BYPASS X INTERROG - IF EQUAL	TEST FOR NO 1 BIT	140964 L	I 140994 -990 5024	319EE42	EE 35		LDA	00	BMU9910560	REDUCE YIA BY 9	TEST FOR NO 1 BIT	140969 P	3 122690 2616 5026	5025	EE 36		LDA	00	BMU9967300	REDUCE YIA BY 9	TEST FOR NO 1 BIT	140974 *	3 140479 -461 5027	AR07	EE 37		LDA	01	BMU99689506001	RE-RESET XIA	TEST FOR NO 1 BIT	140979 U	I 140766 -7WF 5028	EE04	EE 38		LDA	01	BMU9967280	SET POST INTERROG RETURN	TEST FOR NO 1 BIT	140984 I	I 140464 -4W0 5029	EE02	EE 39		LDA	00	BMU9971000	GO TO X INCREMENTS	TEST FOR NO 1 BIT	140989 I	I 140994 -990 5031	EE42	EE 40		LDA	00	BMU9971000	GO TO X INCREMENTS	TEST FOR NO 1 BIT	140994 #	I 140479 -471 5033	EE04	EE 41		LDA	00	BMU9971000	TEST FOR END OF X INTGT --888-	TEST FOR NO 1 BIT	140994 #	I 140479 -471 5034	EE50	EE 42		LDA	00	BMU9971000	CURRENT XIA	TEST FOR NO 1 BIT	140994 #	I 140479 -471 5034	EE50	EE 43		LDA	00	BMU9991900	PLACE IN REFERENCE AREA	TEST FOR NO 1 BIT	140999 7	I 148450 3456 5034	EE50

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8MU99	-	-	COMMENTS	LOC OP SU	ADDRESS	REF
EF 01										5035	
EF 02										5036	
EF 03	RCVS 01	8MU9919006002	THOUSANDS ORDER							5037	EX50
EF 04		T2B 8	8MU9971400	TEST FOR NO 8 BIT						5038	EF18
EF 05		T2B 02	8MU9971240	TEST FOR NO 8 BIT						5039	EF08
EF 06		TR 00	8MU9971400							5040	EF18
EF 07		T2B 02	8MU9971240	TEST FOR NO 8 BIT						5041	EX50
EF 08	8MU9971240 RCVS 01	8MU9919006003	HUNDREDS ORDER							5042	EF18
EF 09		T2B 8	8MU9971400	TEST FOR NO 8 BIT						5043	EF18
EF 10		T2B 02	8MU9971280	TEST FOR NO 8 BIT						5044	EF13
EF 11		TR 00	8MU9971400							5045	EF18
EF 12		T2B 02	8MU9971400	TEST FOR NO 8 BIT						5046	EX50
EF 13	8MU9971280 RCVS 01	8MU9919006004	TENS ORDER							5047	EF18
EF 14		T2B 8	8MU9971400	TEST FOR NO 8 BIT						5048	EF18
EF 15		T2B 02	8MU9971900	FINAL X ADDR - GO TO TBA INCRE						5049	EF38
EF 16		TR 00	8MU9971400							5050	EF18
EF 17		T2B 02	8MU9971540	TEST FOR NO 8 BIT						5051	EC04
EF 18	8MU9971400 RCVS 01	8MU9963006003	TENS ORDER							5052	EF35
EF 19		T2B 8	8MU9971540	TEST FOR NO 8 BIT						5053	EF23
EF 20		T2B 02	8MU9971450	TEST FOR NO 8 BIT						5054	EF35
EF 21		TR 00	8MU9971540							5055	EF35
EF 22		T2B 02	8MU9971520	HUNDREDS ORDER						5056	321
EF 23	8MU9971450 RCVS 01	8MU9963006002	HUNDREDS ORDER							5057	EC04
EF 24		T2B 8	8MU9971520	TEST FOR NO 8 BIT						5058	EF32
EF 25		T2B 02	8MU9971520	TEST FOR NO 8 BIT						5059	EF29
EF 26		TR 00	8MU9971520							5060	EF32
EF 27		TITLE								5061	
EF 28	8MU9971500 LDA 00	8MU9911880	001120							5062	AT07
EF 29		TR 00	8MU9971550							5063	EF36
EF 30		TITLE								5064	
EF 31		T2B 00	8MU9971550	000120						5065	EF31
EF 32	8MU9971520 LDA 00	8MU9911850	000120							5066	AT05
EF 33		TR 00	8MU9971550							5067	EF36
EF 34	TITLE									5068	
EF 35	8MU9971540 LDA 00	8MU9930920	000020	INCREASE X INTERROGATION ADDR						5070	EC04
EF 36		TR 00	8MU9967300							5071	
EF 37		TITLE								5072	
EF 38	8MU9971900 NOP 00	8MU9971960	S-15 SWITCH							5073	322E806
EF 39		TR 00	8MU996350	REDUCE BY 5						5074	AR03
EF 40		T2B 00	8MU996350	REDUCE BY 5						5075	EF43
EF 41		UL/A 00	8MU9971932							5076	
EF 42		SET 00	800002	RECET LAST S-14 BEAT ADDR						5077	
EF 43	8MU9971932 RCVS 01	800000								5078	nd:0941006/gscans

EG 01	SND	00	8M99931910	SEND 10 NO BITS	141169 /	129374 937D 5078	CBO6	EG 02
EG 03	TITLE	141179 #	140359 -351 5081	TBA END AND INCREMENT AREA	141209 #	140324 -320 5088	EBO6	EG 04 8M9971960 LDA 00 8M99966550
EG 04	8M9971960 LDA	00	8M99966550	L0D TBA SEAT UNLOADADER	141214 4	142619 0411 5089	EBO6	EG 05 ULA 00 8M99971972
EG 05	ULA	00	8M99971972	TEST FOR 79999	141219 L	14264 0411 5100	EBO6	EG 06 SET 00 800002
EG 06	SET	00	800002	S-14 COMPLETE - IF EQUAL	141221 4	14264 19 0411 5089	EBO6	EG 07 8M9971972 RCVS 01 800000
EG 07	8M9971972 RCVS	01	800000	RESET LAST S-15 BEAT ADDR	141194 U	000000 00#0 5084	EBO7	EG 08 SND 00 8M99931930
EG 08	SND	00	8M99931930	SEND 10 ALL BITS	141199 /	129384 938D 5085	CB08	EG 09 TR 00 8M99972050
EG 09	TR	00	8M99972050	TEST FOR 79999	141224 1	14229 0241 5101	EBO2	EG 10 8M9972000 LDA 00 8M99966350
EG 10	8M9972000 LDA	00	8M99966350	L0D TBA SEAT UNLOADADER	141214 4	14264 19 0411 5089	EBO6	EG 11 8M9972000 LDA 00 8M99911810
EG 11	8M9972000 LDA	00	8M99911810	000035 INCRAESE TBA TABLE LOADER	141249 #	123144 3140 5109	ATO3	EG 12 AAM 00 8M99966060
EG 12	AAM	00	8M99966060	INCRAESE TBA TABLE LOADER	141254 E	140274 -270 5110	E3A5	EG 13 TR 00 8M9972100
EG 13	TR	00	8M9972100	TITLE	141249 #	123144 3140 5109	ATO3	EG 14 ADD 00 8M99966550
EG 14	ADD	00	8M99966550	L0D TBA BEAT RECEIVER	141229 #	140359 -351 5103	EBO6	EG 15 8M9972050 LDA 00 8M99966550
EG 15	8M9972050 LDA	00	8M99966550	L0D TBA BEAT RECEIVER	141234 6	122686 268F 5104	EBO6	EG 16 ADD 00 8M99910530
EG 16	ADD	00	8M99910530	ADD 5	141234 6	122686 268F 5104	EBO3	EG 17 CMP 00 8M9991270-020
EG 17	CMP	00	8M9991270-020	TEST FOR 79999	141239 4	148419 0411 5105	EBO3	EG 18 CMP 00 8M9991270-020
EG 18	CMP	00	8M9991270-020	TEST FOR 79999	141244 L	141244 0411 5106	EBO3	EG 19 TRE 00 8M99972350
EG 19	TRE	00	8M99972350	S-15 COMPLETE - IF EQUAL	141244 L	141244 0411 5106	EBO3	EG 20 TITLE
EG 20	TITLE	5107						EG 21 8M9972200 LDA 00 8M9911810
EG 21	8M9972200 LDA	00	8M9911810	000035 INCRAESE TBA TABLE LOADER	141249 1	123144 3140 5109	ATO3	EG 22 8M9972100 LDA 00 8M9911810
EG 22	8M9972100 LDA	00	8M9911810	000035 INCRAESE TBA TABLE LOADER	141254 E	140274 -270 5110	E3A5	EG 23 TR 00 8M9966050
EG 23	TR	00	8M9966050	INCRAESE TBA TABLE LOADER	141264 I	141289 0241 5112	324EG32	EG 24 8M9972200 TAA 01 8M9972250
EG 24	8M9972200 TAA	01	8M9972250	SECTION 14 COMPLETE	141264 I	140269 -261 5111	E3A4	EG 25 8M9972200 TAA 01 8M9972250
EG 25	8M9972200 TAA	01	8M9972250	SECTION 14 COMPLETE	141269 2	000500 0500 5113	E3A4	EG 26 SEL 00 800500
EG 26	SEL	00	800500	SECTION 14 COMPLETE	141274 R	129150 0156 5114	8Z45	EG 27 WR 00 8M9931640
EG 27	WR	00	8M9931640	SECTION 14 COMPLETE	141274 R	129150 0156 5114	8Z45	EG 28 TMC 11 8M9972240
EG 28	TMC	11	8M9972240	SECTION 14 COMPLETE	141279 0	11 141284 JKHD 5116	E630	EG 29 TRC 12 8M9972240
EG 29	TRC	12	8M9972240	SECTION 14 COMPLETE	141284 0	12 141289 JBSI 5117	E630	EG 30 TAA 01 8M9972250
EG 30	TAA	01	8M9972250	SECTION 14 COMPLETE	141289 0	11 141284 JKHD 5116	E630	EG 31 TITLE
EG 31	TITLE	5115						EG 32 8M9972250 TAA 01 8M9972280
EG 32	8M9972250 TAA	01	8M9972280	PRINT TAB RESULTS IF 0916 ON	141289 I	6 141304 JT-D 5119	E635	EG 33 8M9972260 TAB 02 8M996500
EG 33	TAB	02	8M996500	REPEAT SECTION 14 IF 0912 ON	141294 I	2 140004 -0-D 5120	D209	EG 34 8M9972260 TAB 02 8M9965150
EG 34	TAB	02	8M9965150	GO TO SECTION 15	141299 I	140049 -041 5121	D218	EG 35 8M9972280 RCVS 01 8M998350
EG 35	RCVS	01	8M998350	SECTION 15 COMPLETE	141304 U	1 122551 25VA 5122	AN20	EG 36 8M9972280 RCVS 01 8M998000
EG 36	RCVS	01	8M998000	SECTION 15 COMPLETE	141309 I	1 122064 20MD 5123	AN20	EG 37 TITLE
EG 37	TITLE	5124						EG 38 8M9972260 TR 00 8M9972260
EG 38	TR	00	8M9972260	SECTION 15 COMPLETE	141314 I	141294 JTBD 5125	E633	EG 39 8M9972350 TAA 01 8M9972400
EG 39	TAA	01	8M9972400	SECTION 15 COMPLETE	141319 I	1 141344 J3UD 5126	EHO4	EG 40 SEL 00 800500
EG 40	SEL	00	800500	SECTION 15 COMPLETE	141324 2	000500 0500 5127	325	EG 41 WR 00 8M9931650
EG 41	WR	00	8M9931650	SECTION 15 COMPLETE	141329 R	129155 0156 5128	B247	EG 42 TITLE

INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8M999	COMMENTS	LOC OP SU	ADDRESS	PGLIN SER REF
EH 01	TMC	11	8M99972390	8M99972400			141334 0	II 141339 JLCI 5130	EHO4
EH 02	8M99972390	TRC	12	8M99972400			141339 0	II 141344 JC4D 5131	EHO4
EH 03	8M99972400	TAF	06	8M99972430	PRINT TAB RESULTS IF 0916 ON	141344 1	6 141359 JINI 5133	EH07	
EH 04	8M99972400	TAF	06	8M99972430	REPEAT TAB SECTION 15 IF 0912 ON	141349 1	2 140049 -OMI 5134	DZ18	
EH 05	8M99972410	TAB	02	8M99965150	GO TO SECTION 16	141354 1	141609 J601 5135	E135	
EH 06	TR	00	8M9997400	GO TO SECTION 15 IF 0912 ON	141354 1	2 140049 -OMI 5134	DZ18		
EH 07	8M99972430	RVS	01	8M99983506001	GO TO SECTION 16	141359 U	I 122551 25VA 5136	A009	
EH 08	TSL	01	8M99908000			141364 1	I 122064 20WD 5137	AN20	
EH 09	TR	00	8M99972410			141369 1	I 141349 J34I 5139	EHO5	
EH 10									
EH 11	8M99972700	TAF	06	8M99973000	DEMAND EXTENDED T-O IF 0916 ON	141374 1	6 141479 JUPI 5140	E101	
EH 12	8M99972750	TAA	01	8M99972750		141379 1	I 141404 JC4D 5141	EH19	
EH 13	SEL	00	8M99910900	000000 .xx.		141384 2	000500 0500 5142	326	
EH 14	WR	00	8M99910900	000000 .xx.		141389 R	122834 283D 5143	AS02	
EH 15	TITLE								
EH 16	8M99972730	TMC	11	8M99972740	8M99972750	141394 0	I 141399 JLI 5145	EH19	
EH 17	8M99972740	TRC	12	8M99972750		141399 0	I 141404 JD00 5146	EH17	
EH 18	TITLE								
EH 19	8M99972750	TAE	05	8M99972850	BYPASS TABULATION IF 0915 ON	141404 I	5 141439 JUTI 5148	EH28	
EH 20	RVS	01	8M999167506001	SET BIT TAB RETURN		141409 U	I 127641 76UA 5152	B519	
EH 21	TSL	01	8M99916000	GO TO BP DROP OR PICK		141414 I	I 125379 53XI 5150	B028	
EH 22	TITLE								
EH 23	RVS	01	8M999266008001	SET MAR TAB RETURN		141419 U	I 127641 76UA 5152	B519	
EH 24	TSL	01	8M999260170	GO TO MAR TAB		141424 I	I 125669 56WI 5153	BF28	
EH 25	TITLE								
EH 26	RVS	01	8M9996426001	SET SEGTAB RETURN		141429 U	I 137531 X5TA 5155	DZ03	
EH 27	TSL	01	8M99961000			141434 I	I 137104 XIxD 5156	DW35	
EH 28	TITLE								
EH 29	8M99972850	LDA	00	8M99967300	LD X AND Y INTERROG ADDR	141439 *	I 140479 -47I 5157	ECHO4	
EH 30	TITLE								
EH 31	8M99972870	RVS	01	8M99972920	ERROR CHARACTER RESET ADDR	141449 U	I 000000 00%o 5160	EH36	
EH 32	8M99972880	NOP	00	8M99972920	S-15 SWITCH	141454 A	I 141469 J46I 5161	EH36	
EH 33	TITLE								
EH 34	TMS	11	8M999319160004	RESET CHAR TO NO BITS		141459 9	I 129374 9L6D 5163	C806	
EH 35	TR	00	8M99972930			141464 I	I 141474 J47D 5164	EH37	
EH 36	8M99972920	TMS	11	8M999319406004	RESET CHAR TO ALL BITS	141474 9	I 129389 9LHI 5165	C809	
EH 37	8M99972930	TR	00	8M99968800		140739 73I	5166	ED15	
EH 38	TITLE								
EH 39						000000 -XX-	----	CBA 000000	EH 39

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INDEX	TAG	OP	NU AT	OPERAND	PROGRAM	COMMENT	LOC OF SU	ADDRESS	PGLIN SER RE
EI 01	SMU9973000	SET	15	000021	SMU9973001	INTO EXTENSION 1-O	141489 7	15 141575 JEGE S171	E122
EI 02	L0D	15	SMU9973040	T-O FORMAT	141484 8	15 122854 2HED S170	141484 8	15 000021 0881 S169	MS06
EI 03	LDA	00	8MU9966060	SET CBA LOADER ADDR	141494 *	150274 -270 S173	141494 *	150274 -270 S173	E123
EI 04			8MU9966060	REDUCE TBA LOADER BY 8	141504 P	122689 2681 S175	141504 P	122689 2681 S175	E111
EI 05	ULR	00	8MU9973110	SET XY LINE LOADER ADDR	141509 *	141534 J530 S176	141509 *	141534 J530 S176	E113
EI 06	LDA	00	8MU9973110	CURRENT BEAT ADDRESS	141519 8	000006 0006 S178	141519 8	000006 0006 S178	E128
EI 07	ULR	00	8MU9973160	INTO 1-O CBA 000000	141524 7	141588 J58H S180	141524 7	141588 J58H S180	E128
EI 08	UNL	00	8MU9973160	XY COINCIDENCE LINES	141529 B	000007 0007 S182	141529 B	000007 0007 S182	E130
EI 09	SET	00	800006	INTO 1-O XY 000	141539 7	141600 J606 S184	141539 7	141600 J606 S184	E130
EI 10	SET	00	800000	EXTENSION 1-O	141542	000500 0500 S187	141542	000500 0500 S187	E124
EI 11	L0D	00	8MU9973899	GENERATED TO REPLACE DRC, DCON, OR DFN	141544 2	141555 J55E S187	141544 2	141555 J55E S187	E124
EI 12	SEL	00	8000500	EXTENSION 1-O	141549 R	141555 J55E S188	141549 R	141555 J55E S188	E124
EI 13	SET	00	800007	INTO 1-O XY 000	141554	141555 S188	141554	141555 S188	E124
EI 14	SET	00	800000	XY COINCIDENCE LINES	141559 8	000000 0000 S183	141559 8	000000 0000 S183	E130
EI 15	L0D	00	8MU9973160	INTO 1-O XY 000	141560	141594 J560 S184	141560	141594 J560 S184	E130
EI 16	UNL	00	8MU9973920	INTO 1-O XY 000	141560	141594 J560 S184	141560	141594 J560 S184	E130
EI 17									
EI 18									
EI 19	SEL	00	8MU9973899	EXTENSION 1-O	141560	000500 0500 S187	141560	000500 0500 S187	E124
EI 20	MR	00	8MU9973899	EXTENSION 1-O	141560	141555 J55E S188	141560	141555 J55E S188	E124
EI 21	TR	00	8MU997273C	EXTENSION 1-O	141560	141594 J560 S188	141560	141594 J560 S188	E124
EI 22									
EI 23									
EI 24	SMU9973899	CON	0	S-14 & 15 ERROR T-O EXTENSION	141560	000500 0500 S187	141560	000500 0500 S187	E124
EI 25	SMU9973901	CON	0	GENERATED TO REPLACE DRC, DCON, OR DFN	141560	141555 J55E S187	141560	141555 J55E S187	E124
EI 26	SMU9973901	CON	0	-----	141560	141555 J55E S187	141560	141555 J55E S187	E124
EI 27	SMU9973901	CON	03	-----	141575	141578	141575	141578	E124
EI 28	SMU9973910	CON	10	CBA 000000	141578	141588	141578	141588	E124
EI 29	SMU9973910	CON	10	XY 000 000	141588	141590	141588	141590	E124
EI 30	SMU9973920	CON	10	000000	141590	141600	141590	141600	E124
EI 31	SMU9973920	CON	01	000000	141600	141600	141600	141600	E124
EI 32									
EI 33									
EI 34	SMU9974000	RCS	01	ALL CHAR NON-REDUND DISCRIMIN	141609 U	1 000004 00#4	141609 U	1 000004 00#4	S213
EI 35	SMU9974000	RCS	00	SECTION 16 -	141609 U	1 000004 00#4	141609 U	1 000004 00#4	S212
EI 36	BLM	00	000004	SET LOWER 80K TO BLANKS	141614 S	016000 0000	141614 S	016000 0000	C214
EI 37	TMC	00	000000	SET INTO 50 TIMES ROTATION CTR	141619 O	11 141624 J08D	141619 O	11 141624 J08D	E138
EI 38	RAD	03	000000	SET INITIAL ROTATION FIELD	141634 U	1 129314 93/0	141634 U	1 129314 93/0	C224
EI 39									
EI 40	RCS	01	8MU9931880604	SET INITIAL ROTATION FIELD	141639 B	0000010 0010	141639 B	0000010 0010	C224
EI 41	SET	00	000010	-----	141639 /	129239 9231	141639 /	129239 9231	C224
EI 42									
EI 43									

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INDEX	TAG	OP	NU AT	OPRAND	PROGRAM GMU99	-	COMMENTS	LOC	OP SU	ADDRESS	PGLIN SER REF
EJ 01	8MU9974200	SET	00	000010	RCVS 01	000004	AT 0004	141644 B	000010 0010	5222	C438
EJ 02					8MU99318756005	SND 50	CHARS-FROM ROTATION FLD	141649 U	1	000004 0044	5223
EJ 03								141654 /		129314 931D	5224
EJ 04											C438
EJ 05								141659 B	000240 0240	5226	
EJ 06								141664 /	000004 0004	5227	
EJ 07								141664 /	AT 0054-1200	CHARS-FROM 0004	
EJ 08								141674 B	000250 0250	5230	
EJ 09								141679 /	000004 0004	5231	
EJ 10								14169 H	2	122707 27-G	5229
EJ 11								5232			
EJ 12								141684 P	2	122682 260B	5233
EJ 13								141689 N	2	141699 J6R1	5234
EJ 14								141694 I		141679 J6T1	5235
EJ 15								141694 I			
EJ 16								141699 #	2	129229 92KI	5237
EJ 17								141704 *	2	141724 J7KD	5238
EJ 18								141709 B	000050 0050	5239	
EJ 19								141714 8		129359 9351	5240
EJ 20								141719 0	11	141724 JPB0	5241
EJ 21								141719 0			
EJ 22								141724 4	000000 0000	5243	
EJ 23								141729 L	141739 J73I	5244	
EJ 24								141734 I	141939 J93I	5245	
EJ 25								141739 O	11	141939 JRCI	5246
EJ 26								141739 Q			
EJ 27								141744 *	2	141724 J7KD	5247
EJ 28								141749 4	2	122792 2TRB	5248
EJ 29								141754 L		141774 J77D	5249
EJ 30								141759 *	2	129224 92KD	5251
EJ 31								141764 Q	2	141724 J7KD	5252
EJ 32								141764 Q			
EJ 33								141769 1		141719 J71I	5253
EJ 34								141769 1			
EJ 35								141774 P	3	122682 26HB	5256
EJ 36								5255			
EJ 37								141779 N	3	141809 J8E1	5257
EJ 38								5254			
EJ 39								141784 B	2	000001 00-1	5259
EJ 40								141789 8	2	129310 933G	5260
EJ 41								5261			
EJ 42								141794 7	2	129359 93NI	5263
EJ 43								141799 7			

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INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8M999	COMMENTS	LOC OF SU	ADDRESS	PG LIN SER REF
EK 01	TR	00	8M9974200		141804 1	141644 J64D 5264	EJ01		
EK 02	8M9974800	TA	01	8M9974830	141809 1	1 141834 J8TD 5265	EK09		
EK 03	SEL	00	000500	8M9974830	141814 2	000500 0500 5266	BZ49		
EK 04	WR	00	8M9931657		141819 R	129160 9166 5267	BZ49		
EK 05	TMC	11	8M9974825		SECTION 16 COMPLETE				
EK 06	TMC	11	8M9974825		141824 0	11 141829 J0B1 5269	EK09		
EK 07	8M9974825	TRC	12	8M9974830	141829 0	12 141834 JH3D 5270	EK09		
EK 08	TITLE			8M9974830	141834 I	6 141924 JZKD 5272	EK32		
EK 09	8M9974830	TAF	06	8M9974950	PRINT TAB RESULTS IF 0916 ON	141839 1	2 141609 J6-I 5273	EI35	
EK 10	SET	00	000003	8M9974840	REPEAT S-16 IF 0912 ON	141844 B	000003 0003 5274	EK35	
EK 11	SET	00	8M9931680-006	8M9931680-006	PASS COUNT	141849 B	129180 9186 5274	EK35	
EK 12	LOD	00	8M9910510	8M9910510	INCR/DECSE PASS COUNT BY 1	141849 8	129180 9186 5275	334CA06	
EK 13	ADD	00	8M9931680-006	8M9931680-006	PASS COUNT	141854 8	122682 2688 5276	EK32	
EK 14	UNL	00	8M9931680-006	8M9931680-006	REPLACE IN 1-O	141859 7	129180 9186 5277	EK32	
EK 15	SEL	00	000500	8M9931680-001	PASS 001-8M999	141864 2	000500 0500 5279	CA06	
EK 16	SEL	00	000500	8M9931680-001	PASS 001-8M999	141869 R	129173 917C 5290	CA06	
EK 17	WR	00	8M9931680-001	8M9931680-001	PASS 001-8M999	141864 2	5278		
EK 18	TITLE			8M9974912	141874 0	11 141879 J0G1 5282	EK20		
EK 19	TMC	11	8M9974912	8M9974920	141874 0	12 141884 JH8D 5283	EK22		
EK 20	8M9974912	TRC	12	8M9974920	141879 0	12 141884 JH8D 5283	EK20		
EK 21	TITLE			8M9974920	141884 1	4 120334 0T3D 5285	AC36		
EK 22	8M9974920	TAD	04	8M9902000	REPEAT ALL SECTIONS IF 0914 ON	141884 1	5284		
EK 23	TITLE			8M9902000	REPEAT ALL SECTIONS IF 0914 ON	141884 1	5286		
EK 24	SET	00	600003	8M99303406005	SND UPPER BOK BLANK TO 18189	141889 B	000003 0003 5287		
EK 25	RCVS	01	618189	8M99303406005	SND UPPER BOK BLANK TO 18189	141894 U	018189 Y1Y9 5288		
EK 26	SND	00	618189	8M99303406005	SND UPPER BOK BLANK TO 18189	141899 /	128259 8251 5289	BX15	
EK 27	SET	00	6000120	8M99303406005	SND UPPER BOK BLANK TO 18189	141904 B	000120 0120 5300		
EK 28	ENT80			8M9905 335	141909 U	1 018204 Y2#4 5301			
EK 29	RCVS	01	618204	8M9905 335	SND CONTROL AREA BACK TO 18200	141909 U	1 018204 Y2#4 5301		
EK 30	SND	00	C138204	8M9905 335	AT 1820C-600 CHARS-FROM 138200	141914 /	138204 Y20D 5302		
EK 31	TR	00	618189	8M9905 335	GO TO 10 BLANK OUT ROUTINE 6 TR06	141919 1	018189 Y189 5303		
EK 32	8M9974950	RCVS	01	8M990835G6001	141924 U	1 122551 25VA 5304	AN20		
EK 33	8M9974950	RCVS	01	8M990835G6001	141924 U	1 122064 20MD 5305	AN20		
EK 34	TITLE			8M9974840	141934 1	141839 J331 5307	EK10		
EK 35	8M9974840	TR	00	8M9974840	141934 1	141839 J331 5306	EK10		
EK 36	8M9975000	LDA	02	8M9974450	141939 #	2 141724 J7KD 5308	EJ22		
EK 37	UNL	02	8M9931680	8M9931680	PLACCE IN REF AREA EXIT CHK	141944 T	2 129290 92R6 5309	CAS3	
EK 38	SUB	02	8M9931680	8M9931680	REDUCE BY 49	141949 P	2 129232 92L8 5310	CAS3	
EK 39	ULA	02	8M9975120	8M9975120	SET VARIABLE SGL CHAR LODER	141954 *	2 141979 J9PI 5311	EL04	
EK 40	TITLE			8M9931685	141959 #	2 129364 930D 5313	CA41		

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INDEX	TAG	OP	NU AT	OPERAND	PROGRAM	LOC OF SU	ADDRESS	PGLIN SER	REF
EL 01	ULB	C2	SMU9975140	SET VARIABLE SGL CHAR CMP	-	COMMENTS	-	-	
EL 02	SMU9975100	SET	02	SMU9975140	SMU9975140	141964 *	2 141989 J90I 5314	EL07	
EL 03	SMU9975100	TMC	02	SMU9975120	SMU9975120	141968 8	2 000001 00-1 5315	336	
EL 04	SMU9975120	L0D	02	SMU9975120	SMU9975120	141974 0	11 141979 JRG1 5316	EL04	
EL 05	TMC	11	SMU9975120	000000	SGL CHAR LODER	141979 8	2 000000 00-0 5317	EL04	
EL 06	TITLE		SMU9975140	REDUNDANCY ERROR THIS CHAR	141984 0	11 142039 K-C1 5318	EL19		
EL 07	SMU9975140	CMP	02	SMU9975200	SGL CHAR CMP	141984 0	11 142039 K-C1 5318	EL19	
EL 08	SMU9975140	TR	00	SMU9975200	INEQUALITY ERROR THIS CHAR	141984 L	142004 K00D 5321	EL10	
EL 09	SMU9975140	TR	00	SMU9975400	SGL CHAR CMP	141984 L	142004 K00D 5320	5319	
EL 10	SMU9975200	LDA	02	SMU9975120	LOD SGL CHAR LODER	141999 4	2 000000 00-0 5320	5319	
EL 11	SMU9975120	CMP	02	SMU9975120	TEST FOR CURRENT CACA	142004 #	2 141979 J9PI 5323	EL04	
EL 12	SMU9975120	TR	00	SMU9974600	SGL CHAR CHK CMPLT-THIS BLOCK	142009 4	2 129290 92R6 5324	EL04	
EL 13	TITLE		SMU9975120	INC R SGL CHAR CMP BY 000001	142019 E	1 141979 J9XI 5327	5326		
EL 14	AAM	C1	SMU9975120	INC R SGL CHAR CMP BY 000001	142024 E	1 141989 J9VI 5328	EL07		
EL 15	AAM	00	SMU9975140	INC R SGL CHAR CMP BY 000001	142029 1	1 141969 J96I 5329	337ELO2		
EL 16	TR	00	SMU9975120	INC R SGL CHAR CMP BY 000001	142029 1	1 141969 J96I 5329	EL07		
EL 17	WR	00	SMU9931679	PASS 001-SMU99	142034 R	129173 91TC 5330	CA05		
EL 18	TITLE		CHARACTER DETERMINATION AREA	RESET BIT BREAKDOWN	142039 7	7 122854 2YED 5332	AS06		
EL 19	SMU9975400	UNL	07	SMU9910940	PLACE ERRONEOUS CHAR IN T-O	142044 7	2 122845 2YED 5332	AS06	
EL 20	SMU9910940	UNL	02	SMU9910920	RESET BIT BREAKDOWN	142049 B	2 000002 00-2 5334	AS04	
EL 21	SET	02	SMU99002	PLACE ERRONEOUS CHAR IN T-O	142044 7	2 122845 2YED 5332	AS04		
EL 22	LDD	02	SMU9912254	--	142054 8	2 123482 340B 5335	AU04		
EL 23	UNL	02	SMU9910920-001	X--X	142059 7	2 122844 28ME 5336	AU04		
EL 24	UNL	02	SMU9975460	--	142064 0	11 142069 K-F1 5337	EL25		
EL 25	LDA	02	SMU9975460	LOD SGL CHAR CMP ADDR	142069 #	2 141989 J90I 5338	EL25		
EL 26	ULB	02	SMU9975460	SET VSCL	142074 *	2 142084 K00D 5339	EL29		
EL 27	TITLE		VARIABLE SHOULD BE CHAR LODER	PLACE SB CHAR IN T-O	142074 *	2 142084 K00D 5339	EL29		
EL 28	SET	02	SMU99001	VARIABLE SHOULD BE CHAR LODER	142079 B	2 000001 00-1 5341	5340		
EL 29	SMU997551C	L0D	02	SMU9910920-003	PLACE SB CHAR IN T-O	142084 8	2 000000 00-0 5342	338AS04	
EL 30	UNL	02	SMU99002	VARIABLE SHOULD BE CHAR LODER	142089 7	2 122842 28ME 5343	338AS04		
EL 31	TITLE		---	---	142089 7	2 122842 28ME 5343	338AS04		
EL 32	TITLE		---	---	142094	5344			
EL 33	LDA	02	SMU9975120	LOD SGL CHAR LODER ADDR	142094 *	2 141979 J9PI 5346	EL04		
EL 34	UNL	02	SMU9910900	PLACE ERROR ADDR IN T-O	142099 7	2 122839 28L1 5347	EL04		
EL 35	TR	00	SMU9977300	GO TO CHAR DETERM FOR BIT BRK	142104 1	142174 K17D 5348	AS02		
EL 36	SMU9975700	TAA	01	SMU9975750	000000 X--X	142119 R	122834 283D 5351	AS02	
EL 37	SEL	00	SMU9910900	0000500	142114 2	000500 0500 5350	EL01		
EL 38	WR	00	SMU9910900	000000	142119 R	122834 283D 5351	AS02		
EL 39	TITLE		---	---	142124 0	11 142124 KJBI 5353	EL41		
EL 40	TMC	11	SMU9975740	SMU9975750	142124 0	12 142124 KJBI 5354	EL41		
EL 41	TRC	12	SMU9975740	SMU9975750	142129 0	12 142124 KJBI 5354	EL41		

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INDEX	TAG	OP	NU AT	OPERAND	PROGRAM 8MU99	-	-	COMMENTS	LOC OP SU	ADDRESS	PGM IN SER REF	
EM 01	8MU9975750	TAE	05	8MU9975860	BYPASS TABULATION IF 0915 ON	142134 I	5 142169 X/MI 5356		142144 I	1 125379 53X1 5358	BD28	
EM 02	8MU9975750	RCVS	01	8MU99266006001	SET MATAB RETURN	142149 U	1 127641 76UA 5360		142154 I	1 125669 56WI 5361	BS19	
EM 03	8MU9975750	TSL	01	8MU99260170	SET BIT TAB RETURN	142139 U	1 125661 56WA 5357		142154 I	1 125669 56WI 5361	BS19	
EM 04	8MU9975750	TITLE		RCVS 01	8MU99266006001	SET MATAB RETURN	142149 U	1 127641 76UA 5360		142154 I	1 125669 56WI 5361	BS19
EM 05	8MU9975750	TITLE		RCVS 01	8MU99266006001	SET MATAB RETURN	142149 U	1 127641 76UA 5360		142154 I	1 125669 56WI 5361	BS19
EM 06	8MU9975750	TITLE		RCVS 01	8MU99266006001	SET MATAB RETURN	142149 U	1 127641 76UA 5360		142154 I	1 125669 56WI 5361	BS19
EM 07	8MU9975750	TITLE		RCVS 01	8MU99264206001	SET SEGTAB RETURN	142159 U	1 137531 X5TA 5363		142164 I	1 137104 X15D 5364	5362
EM 08	8MU9975750	TITLE		RCVS 01	8MU99264206001	SET SEGTAB RETURN	142159 U	1 137531 X5TA 5363		142164 I	1 137104 X15D 5364	5362
EM 09	8MU9975860	TITLE		TSL 01	8MU9961000	SET SEGTAB RETURN	142164 I	1 137104 X15D 5364		142164 I	1 137104 X15D 5364	5362
EM 10	8MU9975860	TITLE		TR 00	8MU9975200	TEST 6 BIT BREAKDOWN	142169 I	1 142004 K00D 5366		142169 I	1 142004 K00D 5366	5365
EM 11	8MU9975860	TITLE		LOD 02	8MU9910920-003	LOD SHOULD BE CHAR	142174 B	2 000001 00-1 5368		142179 8	2 122842 28MB 5369	AS04
EM 12	8MU9977000	SET	02	000001	8MU9910920-003	LOD SHOULD BE CHAR	142174 B	2 000001 00-1 5368		142179 8	2 122842 28MB 5369	AS04
EM 13	8MU9977000	SET	02	000001	8MU9910920-003	LOD SHOULD BE CHAR	142174 B	2 000001 00-1 5368		142179 8	2 122842 28MB 5369	AS04
EM 14	8MU9977000	SET	02	000001	8MU9910920-003	LOD SHOULD BE CHAR	142174 B	2 000001 00-1 5368		142179 8	2 122842 28MB 5369	AS04
EM 15	8MU99109206001	TITLE	X--	RCVS 01	8MU99109206001	TEST 8B CHAR	142184 U	1 122842 28UB 5371		142184 U	1 122842 28UB 5380	5370
EM 16	8MU99109206001	TITLE	X--	RCVS 01	8MU99109206001	TEST 8B CHAR	142184 U	1 122842 28UB 5371		142184 U	1 122842 28UB 5380	5370
EM 17	8MU9977060	TITLE	A	8MU9977200	TEST FOR NO A BIT	--I----	142204 *	5 142219 KS/1 5376		142204 *	5 142244 KSUD 5383	5375
EM 18	8MU9977060	TITLE	A	8MU9978000	TEST FOR NO A BIT	-I-----	142189 *	6 142204 KS-D 5372		142189 *	6 142244 KSUD 5382	5375
EM 19	8MU9977060	TITLE	TR 00	8MU9977500	TEST FOR NO A BIT	--I----	142199 I	1 142689 K68I 5374		142199 I	1 142689 K68I 5374	EN43
EM 20	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142204 *	5 142219 KS/1 5376		142204 *	5 142244 KSUD 5383	5375
EM 21	8MU9977060	TITLE	A	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1		142204 *	5 142244 KSUD 5383	5375
EM 22	8MU9977060	TITLE	TR 00	8MU9977500	TEST FOR NO A BIT	--I----	142209 I	1 142369 K36I 5377		142209 I	1 142369 K36I 5377	EM25
EM 23	8MU9977100	TR	00	8MU9975700	GO TO T-O		142214 I	1 142109 K10I 5378		142214 I	1 142109 K10I 5378	EL36
EM 24	8MU9977200	RCVS	01	8MU99109206004	---	TEST IS CHAR	142219 U	1 122845 28UE 5380		142219 U	1 122845 28UE 5380	5379
EM 25	8MU9977200	RCVS	01	8MU99109206004	---	TEST IS CHAR	142219 U	1 122845 28UE 5380		142219 U	1 122845 28UE 5380	5379
EM 26	8MU9977230	TZB	09	8MU991094C-005	-P-----		142224 *	6 142234 KSLD 5381		142224 *	6 142234 KSLD 5381	AS06
EM 27	8MU9977230	TZB	09	8MU991094C-005	-P-----		142229 7	9 122849 20UI 5382		142229 7	9 122849 20UI 5382	AS06
EM 28	8MU9977230	TZB	A	8MU9977250	-----		142234 *	5 142244 KSUD 5383		142234 *	5 142244 KSUD 5383	AS06
EM 29	8MU9977230	TZB	A	8MU9977250	-----		142239 7	9 12276 2Q64		142239 7	9 12276 2Q64	AS06
EM 30	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142244 4	2 129276 92F6 5384		142244 4	2 129276 92F6 5384	AS06
EM 31	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142249 L	1 142949 K94I 5386		142249 L	1 142949 K94I 5386	AS06
EM 32	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142254 4	2 129277 92F6 5385		142254 4	2 129277 92F6 5385	AS06
EM 33	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142259 L	1 143029 2Q67 5387		142259 L	1 143029 2Q67 5387	AS06
EM 34	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142274 4	2 129278 92F6 5388		142274 4	2 129278 92F6 5388	AS06
EM 35	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142279 4	2 129279 92F6 5400		142279 4	2 129279 92F6 5400	AS06
EM 36	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142284 4	2 129280 92F6 5403		142284 4	2 129280 92F6 5403	AS06
EM 37	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142289 L	1 143194 L19D 5406		142289 L	1 143194 L19D 5406	AS06
EM 38	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142294 4	2 129281 92F6 5405		142294 4	2 129281 92F6 5405	AS06
EM 39	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142309 L	1 143444 L44D 5407		142309 L	1 143444 L44D 5407	AS06
EM 40	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142314 4	2 129283 92F6 5409		142314 4	2 129283 92F6 5409	AS06
EM 41	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142319 L	1 143494 L44D 5410		142319 L	1 143494 L44D 5410	AS06
EM 42	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142324 4	2 129282 92F6 5410		142324 4	2 129282 92F6 5410	AS06
EM 43	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142329 L	1 143494 L44D 5410		142329 L	1 143494 L44D 5410	AS06
EM 44	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142334 4	2 129283 92F6 5410		142334 4	2 129283 92F6 5410	AS06
EM 45	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142339 L	1 143494 L44D 5410		142339 L	1 143494 L44D 5410	AS06
EM 46	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142344 4	2 129282 92F6 5410		142344 4	2 129282 92F6 5410	AS06
EM 47	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142349 L	1 143494 L44D 5410		142349 L	1 143494 L44D 5410	AS06
EM 48	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142354 L	1 143494 L44D 5410		142354 L	1 143494 L44D 5410	AS06
EM 49	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142359 L	1 143494 L44D 5410		142359 L	1 143494 L44D 5410	AS06
EM 50	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142364 L	1 143494 L44D 5410		142364 L	1 143494 L44D 5410	AS06
EM 51	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142369 L	1 143494 L44D 5410		142369 L	1 143494 L44D 5410	AS06
EM 52	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142374 L	1 143494 L44D 5410		142374 L	1 143494 L44D 5410	AS06
EM 53	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142379 L	1 143494 L44D 5410		142379 L	1 143494 L44D 5410	AS06
EM 54	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142384 L	1 143494 L44D 5410		142384 L	1 143494 L44D 5410	AS06
EM 55	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142389 L	1 143494 L44D 5410		142389 L	1 143494 L44D 5410	AS06
EM 56	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142394 L	1 143494 L44D 5410		142394 L	1 143494 L44D 5410	AS06
EM 57	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142399 L	1 143494 L44D 5410		142399 L	1 143494 L44D 5410	AS06
EM 58	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142404 L	1 143494 L44D 5410		142404 L	1 143494 L44D 5410	AS06
EM 59	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142409 L	1 143494 L44D 5410		142409 L	1 143494 L44D 5410	AS06
EM 60	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142414 L	1 143494 L44D 5410		142414 L	1 143494 L44D 5410	AS06
EM 61	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142419 L	1 143494 L44D 5410		142419 L	1 143494 L44D 5410	AS06
EM 62	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142424 L	1 143494 L44D 5410		142424 L	1 143494 L44D 5410	AS06
EM 63	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142429 L	1 143494 L44D 5410		142429 L	1 143494 L44D 5410	AS06
EM 64	8MU9977250	CMP	02	8MU9931850-008	TEST FOR 1	-----	142434 L	1 143494 L44D 5410		142434 L	1 143494 L44D 5410	AS06
EM 65	8MU9977250	TAE	05	8MU9975860	BYPASS TABULATION IF 0915 ON	142434 I	5 142169 X/MI 5356		142144 I	1 125379 53X1 5358	BD28	
EM 66	8MU9977250	TAE	05	8MU9975860	BYPASS TABULATION IF 0915 ON	142439 U	1 125661 56WA 5357		142139 U	1 125661 56WA 5357	BD28	
EM 67	8MU9977250	TAE	05	8MU9975860	BYPASS TABULATION IF 0915 ON	142444 I	5 142169 X/MI 5356		142144 I	1 125379 53X1 5358	BD28	
EM 68	8MU9977250	TAE	05	8MU9975860	BYPASS TABULATION IF 0915 ON	142449 U	1 127641 76UA 5360		142149 U	1 127641 76UA 5360	BD28	
EM 69	8MU9977250	TAE	05	8MU9975860	BYPASS TABULATION IF 0915 ON	142454 I	1 125669 56WI 5361		142154 I	1 125669 56WI 5361	BD28	
EM 70	8MU9977250	TAE	05	8MU9975860	BYPASS TABULATION IF 0915 ON	142459 U	1 127641 76UA 5360		142159 U	1 127641 76UA 5360	BD28	
EM 71	8MU9977250	TAE	05	8MU9975860	BYPASS TABULATION IF 0915 ON	142464 I	5 142169 X/MI 5356		142164 I	1 125379 53X1 5358	BD28	
EM 72	8MU9977250	TAE	05	8MU9975860	BYPASS TABULATION IF 0915 ON	142469 U	1 127641 76UA 5360		142169 U	1 127641 76UA 5360	BD28	
EM 73	8MU9977250	TAE	05	8MU9975860	BYPASS TABULATION IF 0915 ON	142474 I	5 142169 X/MI 5356		142174 I	1 125379 53X1 5358	BD28	
EM 74	8MU9977250	TAE	05	8MU9975860	BYPASS TABULATION IF 0915 ON	142479 U	1 127641 76UA 5360		142179 U	1 127641 76UA 5360	BD28	
EM 75	8MU9977250	TAE	05	8MU9975860	BYPASS TABULATION IF 0915 ON	142484 I	5 142169 X/MI 5356		142184 I	1 125379 53X1 5358	BD28	
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EM 77	8MU9977250	TAE	05	8MU9975860	BYPASS TABULATION IF 0915 ON	142494 I	5 142169 X/MI 5356		142194 I	1 125379 53X1 5358	BD28	
EM 78	8MU9977250	TAE	05	8MU9975860	BYPASS TABULATION IF 0915 ON	142499 U	1 127641 76UA 5360		142199 U	1 127641 76UA 5360	BD28	
EM 79	8MU9977250	TAE	05	8MU9975860	BYPASS TABULATION IF 0915 ON	142504 I	5 142169 X/MI 5356</td					

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EN 03	TRB	02	SMU9931850-009	0				A NOT B ZONED CHARS	142369	4	2	129275	92PE	5413	C3A0
EN 04	CMP	02	SMU998600	0				A NOT B ZONED CHARS	142369	4	2	142384	KTDD	5422	342E04
EN 05	TRB	02	SMU998600	002		# POUND SIGN	e	AT SIGN	142354	4	2	129244	L78D	5415	C2A6
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EN 07	TRB	02	SMU9981030					142354	4	2	129245	92ME	5417	C2A6	
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EN 09	TRB	00	SMU9977100					142364	1	142214	KTDD	5419	EM23		
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EN 12	TITLE	01	SMU9910920604	--X				A NOT B ZONED CHARS	142369	U	122845	28UE	5421	AS04	
EN 13	TITLE	01	SMU9977530	--P----				A NOT B ZONED CHARS	142379	4	9	122849	KTDD	5422	EN14
EN 14	TITLE	12B	SMU9977530	A				A NOT B ZONED CHARS	142379	4	6	142384	KTDD	5422	EN14
EN 15	TITLE	12B	SMU997753C	A				A NOT B ZONED CHARS	142384	4	5	142394	KTDD	5424	EN16
EN 16	TITLE	08	SMU9910940-004	---D---				A NOT B ZONED CHARS	142394	7	8	122850	28UE	5426	AS06
EN 17	TITLE	02	SMU9931810-005	TEST FOR /				A NOT B ZONED CHARS	142394	7	2	129241	92MA	5427	C2A6
EN 18	TITLE	00	SMU997000					A NOT B ZONED CHARS	142404	L	1429263	92PE	5428	EP30	
EN 19	TITLE	02	SMU9931840-007					A NOT B ZONED CHARS	142409	4	2	129267	92BD	5429	C2A9
EN 20	TITLE	00	SMU997200					A NOT B ZONED CHARS	142414	L	143014	L010	5430	E002	
EN 21	TITLE	02	SMU9931840-006	T				A NOT B ZONED CHARS	142419	4	2	129268	92OH	5431	C2A9
EN 22	TITLE	00	SMU9979430					A NOT B ZONED CHARS	142424	L	143109	L101	5432	E024	
EN 23	TITLE	02	SMU9931840-005	U				A NOT B ZONED CHARS	142424	L	143190	L171	5434	C2A9	
EN 24	TITLE	00	SMU9979600					A NOT B ZONED CHARS	142434	L	1429269	92OI	5433	E039	
EN 25	TITLE	02	SMU9931840-004	V				A NOT B ZONED CHARS	142434	L	143179	L171	5434	C2A9	
EN 26	TITLE	00	SMU9979830					A NOT B ZONED CHARS	142444	L	143274	L27D	5436	ER18	
EN 27	TITLE	00	SMU9931840-003	W				A NOT B ZONED CHARS	142444	L	143270	92PE	5435	C2A9	
EN 28	TITLE	00	SMU9931840-003	X				A NOT B ZONED CHARS	142454	L	143359	L351	5438	ER37	
EN 29	TITLE	02	SMU9931840-002	X				A NOT B ZONED CHARS	142464	L	129273	92PB	5439	C2A9	
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EN 31	TITLE	02	SMU9931840-001	Y				A NOT B ZONED CHARS	142469	4	2	129273	92PC	5441	C2A9
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EN 33	TITLE	02	SMU9931840	Z				A NOT B ZONED CHARS	142474	L	143699	L691	5446	ET27	
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EN 35	TITLE	02	SMU9931840-008	RECORD MARK				A NOT B ZONED CHARS	142484	L	143614	L610	5446	ET08	
EN 36	TITLE	00	SMU998630	COMMA	,			A NOT B ZONED CHARS	142499	4	2	129274	92PD	5443	CA29
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EN 38	TITLE	00	SMU9981000	PERCENT	%			A NOT B ZONED CHARS	142509	4	2	129243	92MC	5449	345C26
EN 39	TITLE	02	SMU9931810-003	PERCENT	%			A NOT B ZONED CHARS	142514	L	143874	L87D	5450	EU24	
EN 40	TITLE	00	SMU997100	PERCENT	%			A NOT B ZONED CHARS	142519	L	144224	KT2D	5451	EM23	
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EN 43	TITLE	01	SMU9910920604	--X				B NOT A ZONED CHARS	142542						
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EN 45	TITLE	00	SMU9978040	TEST IS CHAR				B NOT A ZONED CHARS	142542	U	142534	K545	5455	EN47	
EN 46	TITLE	08	SMU9910940-C05	--D----				B NOT A ZONED CHARS	142542	U	142534	K545	5455	AS06	
EN 47	TITLE	12B	SMU9978060	TEST FOR -				B NOT A ZONED CHARS	142542	U	142534	K545	5455	EN49	
EN 48	TITLE	09	SMU9910940-C04	--P----				B NOT A ZONED CHARS	142542	U	142534	K545	5455	AS06	
EN 49	TITLE	02	SMU9931810-006	TEST FOR -				B NOT A ZONED CHARS	142542	U	142534	K545	5455	CA26	

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INDEX TAG OP NU AT OPERAND PROGRAM BMU99 COMMENTS LOC OP SU ADDRESS PGLIN SER REF

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E0 03	CMP	02	BMU9931830-007	L	-	-	BMU99	-	-	BMU9931830-006	142579	4	2	129259 92IN 5465	346E30	C228	E002
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E0 09	CMP	02	BMU9931830-004	O	-	-	BMU99	-	-	BMU998060	142619	4	2	129262 92IN 5472	346E30	C228	E002
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E0 27	BMU9978430 UNL	08	BMU9910940-004	N	---	X	TEST IS CHAR	142714	I	142724 KX-D 5502	AS06	E035	EO23	EO23	EO23	EO23	EO23
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E0 30	BMU9978430 TZS	08	BMU9910940-005	Q	---	X	TEST IS CHAR	142714	I	142724 KX-D 5502	AS06	E035	EO23	EO23	EO23	EO23	EO23
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E0 33	BMU9978430 TZS	08	BMU9910940-005	T	---	X	TEST IS CHAR	142714	I	142724 KX-D 5502	AS06	E035	EO23	EO23	EO23	EO23	EO23
E0 34	BMU9978460 UNL	08	BMU9910940-004	U	---	X	TEST IS CHAR	142714	I	142724 KX-D 5502	AS06	E035	EO23	EO23	EO23	EO23	EO23
E0 35	BMU9978470 CMP	02	BMU9931830-002	V	---	X	TEST IS CHAR	142714	I	142724 KX-D 5502	AS06	E035	EO23	EO23	EO23	EO23	EO23
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E0 47	BMU9978470 CMP	02	BMU9931830-007	H	---	X	TEST IS CHAR	142714	I	142724 KX-D 5502	AS06	E035	EO23	EO23	EO23	EO23	EO23
E0 48	BMU9978470 CMP	02	BMU9931830-007	I	---	X	TEST IS CHAR	142714	I	142724 KX-D 5502	AS06	E035	EO23	EO23	EO23	EO23	EO23
E0 49	BMU9978470 CMP	02	BMU9931830-007	J	---	X	TEST IS CHAR	142714	I	142724 KX-D 5502	AS06	E035	EO23	EO23	EO23	EO23	EO23
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E0 51	BMU9978470 CMP	02	BMU9931830-007	L	---	X	TEST IS CHAR	142714	I	142724 KX-D 5502	AS06	E035	EO23	EO23	EO23	EO23	EO23
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E0 56	BMU9978470 CMP	02	BMU9931830-007	Q	---	X	TEST IS CHAR	142714	I	142724 KX-D 5502	AS06	E035	EO23	EO23	EO23	EO23	EO23
E0 57	BMU9978470 CMP	02	BMU9931830-007	R	---	X	TEST IS CHAR	142714	I	142724 KX-D 5502	AS06	E035	EO23	EO23	EO23	EO23	EO23
E0 58	BMU9978470 CMP	02	BMU9931830-007	S	---	X	TEST IS CHAR	142714	I	142724 KX-D 5502	AS06	E035	EO23	EO23	EO23	EO23	EO23
E0 59	BMU9978470 CMP	02	BMU9931830-007	T	---	X	TEST IS CHAR	142714	I	142724 KX-D 5502	AS06	E035	EO23	EO23	EO23	EO23	EO23
E0 60	BMU9978470 CMP	02	BMU9931830-007	U	---	X	TEST IS CHAR	142714	I	142724 KX-D 5502	AS06	E035	EO23	EO23	EO23	EO23	EO23
E0 61	BMU9978470 CMP	02	BMU9931830-007	V	---	X	TEST IS CHAR	142714	I	142724 KX-D 5502	AS06	E035	EO23	EO23	EO23	EO23	EO23
E0 62	BMU9978470 CMP	02	BMU9931830-007	W	---	X	TEST IS CHAR	142714	I	142724 KX-D 5502	AS06	E035	EO23	EO23	EO23	EO23	EO23
E0 63	BMU9978470 CMP	02	BMU9931830-007	X	---	X	TEST IS CHAR	142714	I	142724 KX-D 5502	AS06	E035	EO23	EO23	EO23	EO23	EO23
E0 64	BMU9978470 CMP	02	BMU9931830-007	Y	---	X	TEST IS CHAR	142714	I	142724 KX-D 5502	AS06	E035	EO23	EO23	EO23	EO23	EO23
E0 65	BMU9978470 CMP	02	BMU9931830-007	Z	---	X	TEST IS CHAR	142714	I	142724 KX-D 5502	AS06	E035	EO23	EO23	EO23	EO23	EO23
E0 66	BMU9978470 CMP	02	BMU9931830-007	A	---	X	TEST IS CHAR	142714	I	142724 KX-D 5502	AS06	E035	EO23	EO23	EO23	EO23	EO23
E0 67	BMU9978470 CMP	02	BMU9931830-007	B	---	X	TEST IS CHAR	142714	I	142724 KX-D 5502	AS06	E035	EO				

INDEX	TAG	OP	NU	AT	OPERAEND	PROGRAM	8M999	-	-	COMMENTS	LOC	OP	SU	ADDRESS	PGLIN	SER	REF
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EP 02	CMP	03	8M99960430	I							142809 L	143534 5521	550E533				
EP 03	CMP	04	8M99931820-001								142814 4	2	129255 92NE 5522	C227			
EP 04	CMP	05	8M99980600								142819 L	143599 5523	L591	E704			
EP 05	CMP	06	8M99931810								142824 4	2	129246 92MF 5524	C226			
EP 06	CMP	07	8M99931800-004								142829 L	143684 5525	L68D	ET23			
EP 07	CMP	08	8M99931800								142824 4	2	129246 92MF 5524	C226			
EP 08	CMP	09	8M99931800								142834 4	2	129235 92LE 5526	C224			
EP 09	CMP	10	8M99931800-003								142839 L	143784 5527	L78D	EU04			
EP 10	CMP	11	8M9991200								142844 4	2	129236 92LF 5528	C224			
EP 11	TRF	00	8M99977100								142849 L	143859 5529	L85I	EU20			
EP 12	ALL CHARS	BB									142854 1	142214 K21D 5530	55230	EM23			
EP 13	8M99978800	C	123	C1	8M99978880						142859 1	142889 K88I 5531	K88I	351EP20			
EP 14	8M99978800	C	123	C1	8M99910940						142874 1	7- 142884 KYHD 5536	5535	EP19			
EP 15	8M99978800	C	123	C1	8M99978860						142874 *	7- 142884 KYHD 5536	5537	EP20			
EP 16	8M99978830	T2B	C	8M99978850							142874 *	7- 142884 KYHD 5536	5535	EP19			
EP 17	8M99978830	T2B	C	8M99978860							142874 *	7- 142884 KYHD 5536	5537	EP20			
EP 18	8M99978830	T2B	C	8M99978860							142874 *	7- 142884 KYHD 5536	5537	EP19			
EP 19	8M99978850	UNL	08	8M99910940-006	D----						142884 7	8 122848 204H 5538	A506				
EP 20	8M99978860	UNL	09	8M99910940	D----						142884 7	8 122848 204H 5538	A506				
EP 21	8M99978880	UNL	09	8M99910940	D----						142889 1	142899 K82I 5539	5539	EP22			
EP 22	8M99978880	UNL	09	8M99910940	D----						142889 1	142899 K82I 5539	5539	EP22			
EP 23	8M99978900	T2B	C	8M99979060							142904 7	9 122854 2QVD 5540	A506				
EP 24	8M99978900	T2B	C	8M99910940-001	D----P-						142904 *	2 142909 K9-I 5541	5541	EP24			
EP 25	8M99978920	UNL	09	8M99910940-002	D----P-						142909 *	3 142919 K9AI 5542	5542	EP26			
EP 26	8M99978940	UNL	09	8M99910940-003	D----P-						142914 7	9 122852 2QVC 5544	A506				
EP 27	8M99978920	T2B	C	8M99910940-004	D----P-						142914 *	4 142929 K22I 5545	5545	EP28			
EP 28	8M99978940	UNL	09	8M99910940-005	D----P-						142924 7	9 122851 2QVA 5546	A506				
EP 29	ALL CHARS	BB									142929 1	142214 K21D 5547	352EM23				
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EP 31	8M99979060	UNL	09	8M99910940-006	P----						142933 7	9 122848 2QZH 5550	5550	EP37			
EP 32	8M99979060	UNL	09	8M99910940-006	P----						142934 *	7 142964 KZFD 5550	5550	EP37			
EP 33	8M99979030	T2B	C	8M99979050							142944 1	142964 K96D 5551	5551	EP37			
EP 34	8M99979030	T2B	C	8M99979050							142944 *	7 142959 KZEI 5553	5553	EP36			
EP 35	8M99979050	UNL	08	8M99910940	D----D						142949 *	7 142959 KZEI 5554	5554	EP37			
EP 36	8M99979050	UNL	08	8M99910940-006	D----D						142952						
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EP 39	8M99979080	UNL	08	8M99910940	D----D						142964 1	142979 K97I 5557	5557	EP40			
EP 40	8M99979090	T2B	C	8M99910940-001	D----P-						142964 *	1 142974 K9XD 5556	5556	AS06			
EP 41	8M99979110	UNL	09	8M99910940-001	D----P-						142979 *	2 142993 K9AI 5559	5559	EP42			
EP 42	8M99979110	T2B	C	8M99910940-002	D----P-						142984 7	9 122852 2QVB 5562	5562	AS06			
EP 43	8M99979130	UNL	09	8M99910940-003	D----P-						142984 *	3 142999 K9II 5561	5561	EP43			
EP 44	8M99979150	UNL	09	8M99910940-004	D----P-						142994 7	9 122851 2QVA 5564	5564	EP44			
EP 45	8M99979150	UNL	09	8M99910940-005	D----P-						142994 *	4 143009 L#0I 5563	5563	EP45			
EP 46	8M99979150	TR	00	8M99977100	TR						143009 1	142214 K21D 5565	5565	EP46			
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EP 49	8M99977100	TR	00	8M99977100	TR						143009 1	142214 K21D 5565	5565	EP49			
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EP 51	8M99977100	TR	00	8M99977100	TR						143009 1	142214 K21D 5565	5565	EP51			
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EP 67	8M99977100	TR	00	8M99977100	TR						143009 1	142214 K21D 5565	5565	EP67			
EP 68	8M99977100	TR	00	8M99977100	TR						143009 1	142214 K21D 5565	5565	EP68			
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EP 70	8M99977100	TR	00	8M99977100	TR						143009 1	142214 K21D 5565	5565	EP70			
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EP 72	8M99977100	TR	00	8M99977100	TR						143009 1	142214 K21D 5565	5565	EP72			
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EP 78	8M99977100	TR	00	8M99977100	TR						143009 1	142214 K21D 5565	5565	EP78			
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EP 81	8M99977100	TR	00	8M99977100	TR						143009 1	142214 K21D 5565	5565	EP81			
EP 82	8M99977100	TR	00	8M99977100	TR						143009 1	142214 K21D 5565	5565	EP82			
EP 83	8M99977100	TR	00	8M99977100	TR						143009 1	142214 K21D 5565	5565	EP83			
EP 84	8M99977100	TR	00	8M99977100	TR		</td										



INDEX	TAG	OP	NU AT	OPERAND	PROGRAM	8M99979660	-	-	COMMENTS	LOC	OP SU	ADDRESS	PGLIN	SER REF
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ER 03	8M99979660	TZB	01	8M99979680					143209	•	1 143219 L2/I	5621	ER05	
ER 04	8M99979680	UNL	09	8M99910940	P-----				143214	7	9 122854 20V0	5622	AS06	
ER 05	8M99979680	TZB	02	8M99979700					143219	•	2 143229 L2K1	5623	ER07	
ER 06	8M99979700	UNL	09	8M99910940-001	P-----				143224	7	9 122853 20VC	5624	AS06	
ER 07	8M99979700	TZB	04	8M99979720					143229	•	3 143239 L2C1	5625	357ER09	
ER 08	8M99979700	TR	00	8M99979730					143234	I	143244 L24D	5626	ER10	
ER 09	8M99979720	UNL	08	8M99910940-002	D-----				143239	7	8 122852 205B	5627	AS06	
ER 10	8M99979730	TZB	08	8M99910940-003	P-----				143244	•	4 143254 L55D	5628	ER12	
ER 11	8M99979750	UNL	09	8M99910940-003	P-----				143249	7	9 122851 20VA	5629	AS06	
ER 12	8M99979750	TR	00	8M99977100					143254	I	142214 K21D	5630	EM23	
ER 13	8M99979800	TZB	08	ALL CHARS	---I-I BB				143259	7	8 122848 204H	5638	AS06	
ER 14	8M99979800	UNL	09	8M99910940-006	D-----				143264	•	7 143289 LSH1	5632	ER21	
ER 15	8M99979860	UNL	09	8M99910940-006	P-----				143264	7	9 122848 20UH	5633	AS06	
ER 16	8M99979860	TR	00	8M99979860					143269	I	143289 L28I	5634	ER21	
ER 17	8M99979830	TZB	C	8M99979850					143274	•	7 143284 LSHD	5636	ER20	
ER 18	8M99979830	UNL	09	8M99979860					143274	I	143289 L28I	5637	ER20	
ER 19	8M99979850	TR	00	8M99979860					143279	I	143289 L28I	5637	ER21	
ER 20	8M99979850	UNL	08	8M99910940-006	D-----				143284	7	8 122848 204H	5638	AS06	
ER 21	8M99979860	TZB	C1	8M99979880					143289	•	1 143299 L22I	5639	358ER23	
ER 22	8M99979860	TR	00	8M99979890					143294	I	143304 L30D	5640	ER24	
ER 23	8M99979880	UNL	08	8M99910940	D-----				143299	7	8 122854 205D	5641	AS06	
ER 24	8M99979890	TZB	02	8M99979910					143304	•	2 143314 L3J0	5642	ER26	
ER 25	8M99979910	UNL	09	8M99910940-001	P-----				143309	7	9 122853 20VC	5643	AS06	
ER 26	8M99979910	TZB	08	8M99910940-002	D-----				143314	•	3 143324 L3B0	5644	ER28	
ER 27	8M99979910	UNL	04	8M99979930					143314	I	143329 L32I	5645	ER28	
ER 28	8M99979930	UNL	08	8M99910940-002	D-----				143319	I	143329 L32I	5645	ER29	
ER 29	8M99979940	TZB	08	8M99910940-003	P-----				143329	•	4 143339 LT3I	5647	AS06	
ER 30	8M99979940	UNL	09	8M99910940-003	P-----				143334	7	9 122851 20VA	5648	ER31	
ER 31	8M99979960	TR	00	8M99977100					143334	I	142214 K21D	5649	AS06	
ER 32	8M99980000	TZB	C	8M99980060					143344	I	143374 L37D	5653	ER40	
ER 33	8M99980000	UNL	09	8M99910940-006	P-----				143344	•	7 143374 LTG0	5651	AS06	
ER 34	8M99980030	TZB	C	8M9998050					143344	I	143374 L37D	5653	ER40	
ER 35	8M99980030	UNL	09	8M9998060	P-----				143344	•	7 143374 LTG0	5651	359AS06	
ER 36	8M99980300	TZB	C	8M9998060					143354	I	143374 L37D	5653	ER40	
ER 37	8M99980300	TZB	C	8M9998050					143354	•	7 143369 LTFI	5655	ER39	
ER 38	8M99980300	TZB	C	8M9998060					143354	I	143374 L37D	5656	ER40	
ER 39	8M9998050	UNL	08	8M99910940-006	D-----				143354	•	7 143369 LTFI	5655	ER39	
ER 40	8M9998050	TZB	C	8M9998060					143354	I	143374 L37D	5656	ER40	
ER 41	8M9998050	UNL	09	8M9998080					143374	I	143374 L37D	5653	ER42	
ER 42	8M9998080	TZB	C	8M9998080					143374	•	1 143384 L3YD	5658	ER42	
ER 43	8M9998080	UNL	09	8M9998080					143374	I	143384 L3YD	5658	AS06	

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INDEX	TAG	OP	NU AT	OPERAND	PROGRAM	COMMENT	LOC	OP SU	ADDRESS	PGLIN	SER REF
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ES 04	BMU9980130	UNL	08	BMU9910940-002	-----D--						
ES 05	BMU9980140	TZB	8	BMU9980160							
ES 06	BMU9980140	UNL	09	BMU9910940-003	-----P--						
ES 07	BMU9980160	TR	00	BMU9977100							
ES 08	BMU9980200	TZB	09	BMU9910940-006	P-----						
ES 09	BMU9980200	UNL	C	BMU9980260							
ES 10	BMU9980200	UNL	09	BMU9910940-006	P-----						
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ES 12	BMU9980230	TZB	C	BMU9980250							
ES 13	BMU9980230	UNL	00	BMU9980260							
ES 14	BMU9980244	I	143449	7	143454 LUED	5674					
ES 15	BMU9980250	UNL	08	BMU9910940-006	D-----						
ES 16	BMU9980260	TZB	01	BMU9980280							
ES 17	BMU9980260	TR	00	BMU9980290							
ES 18	BMU9980280	UNL	08	BMU9910940	-----D						
ES 19	BMU9980290	TZB	02	BMU9980310							
ES 20	BMU9980310	TR	00	BMU9980320							
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ES 22	BMU9980320	TZB	4	BMU9980340							
ES 23	BMU9980320	TR	00	BMU9980350							
ES 24	BMU9980340	UNL	08	BMU9910940-002	-----D--						
ES 25	BMU9980350	TZB	8	BMU9980370							
ES 26	BMU9980350	UNL	09	BMU9910940-003	-----P--						
ES 27	BMU9980370	TR	00	BMU9977100							
ES 28	BMU9980400	TZB	C	BMU9980460							
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ES 30	BMU9980400	UNL	00	BMU9980460							
ES 31		TR	00	BMU9980460							
ES 32	BMU9980430	TITLE	C	BMU9980450							
ES 33	BMU9980430	TZB	00	BMU9980460							
ES 34	BMU9980430	TR	00	BMU9980460							
ES 35	BMU9980450	UNL	08	BMU9910940-006	D-----						
ES 36	BMU9980460	TZB	01	BMU9980480							
ES 37	BMU9980480	UNL	09	BMU9910940	-----P-						
ES 38	BMU9980480	TZB	02	BMU9980500							
ES 39	BMU9980500	UNL	09	BMU9910940-001	-----P-						
ES 40	BMU9980500	TZB	4	BMU9980520							
ES 41	BMU9980520	UNL	09	BMU9910940-002	-----P--						
ES 42	BMU9980520	TZB	8	BMU9980540							
ES 43		TR	00	BMU9980550							

INDEX	TAG	OP	NU	AT	OPERAND	PROGRAM	SMU99	-	-	COMMENTS	LOC	CP	SU	ADDRESS	PGLIN	SER	REF
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ET 02	SMU9980550	TR	00	SMU9910940-C03	---D---						143594	1	142214	K21D	5716	EM23	
ET 03	SMU9980600	TZS	C	SMU9910940-C06	P-a---						143599	0	7	143629	LW8I	5718	ET11
ET 04	SMU9980600	UNL	09	SMU9910940-C06	P-a---						143604	7	9	1222848	ZGUH	5719	AS06
ET 05	SMU9980660	UNL	09	SMU9910940-C06	P-a---						143609	1	143629	L62I	5720	ET11	
ET 06	SMU9980660	TR	00	SMU9980660							143614	0	7	143624	LWBD	5722	ET10
ET 07	SMU9980630	TZB	C	SMU998C650							143619	1	143629	L62I	5723	ET10	
ET 08	SMU9980650	UNL	C8	SMU9910940-C06	D----						143624	7	8	1222848	Z04H	5724	AS06
ET 09	SMU9980650	TR	00	SMU9980660							143629	0	1	143639	L6T1	5725	ET13
ET 10	SMU9980650	UNL	C8	SMU9980680							143634	1	143644	L64D	5726	ET14	
ET 11	SMU9980660	TZB	C1	SMU9980680							143629	0	8	1222848	Z04H	5724	AS06
ET 12	SMU9980660	TR	00	SMU9980690							143634	1	143644	L64D	5726	ET14	
ET 13	SMU9980680	UNL	08	SMU9910940-C06	D----						143624	7	8	1222848	Z04H	5724	AS06
ET 14	SMU9980690	TZB	02	SMU998C710							143644	0	2	143654	L6ND	5728	ET16
ET 15	SMU9980710	UNL	09	SMU9910940-C01	----P-						143649	7	9	1222853	Z0VC	5729	364A506
ET 16	SMU9980710	TZB	04	SMU9980730							143654	0	3	143664	L6FD	5730	ET18
ET 17	SMU9980730	UNL	09	SMU9910940-C02	----P-						143659	7	9	1222852	Z0VB	5731	AS06
ET 18	SMU9980730	TZB	08	SMU9980750							143664	0	4	143674	LWTD	5732	ET20
ET 19	SMU9980730	TZB	08	SMU9980760							143669	1	143679	L67I	5733	ET21	
ET 20	SMU9980750	UNL	08	SMU9910940-C03	----D---						143674	7	8	1222851	Z05A	5734	AS06
ET 21	SMU9980760	TR	00	SMU9977100							143679	1	142214	K21D	5735	EM23	
ET 22	SMU9980750	TZB	C	ALL CHARS	---I-I-	BB					143674	7	8	1222851	Z05A	5734	AS06
ET 23	SMU9980800	TZB	C	SMU9980860							143684	0	7	143714	LXAD	5737	ET30
ET 24	SMU9980800	UNL	09	SMU9910940-C06	P-----						143689	7	9	1222848	Z0UH	5738	ET30
ET 25	SMU9980800	TR	00	SMU9980860							143694	1	143714	L71D	5739	ET30	
ET 26	SMU9980830	TZB	C	SMU9980850							143699	0	7	143709	LX6I	5741	ET29
ET 27	SMU9980830	TZB	C	SMU9980850							143740	1	143714	L71D	5742	ET30	
ET 28	SMU9980830	TR	00	SMU9980860							143740	1	143714	L71D	5742	ET30	
ET 29	SMU9980350	UNL	08	SMU9910940-C06	D----						143749	7	9	1222854	Z0VD	5745	365A506
ET 30	SMU9980360	TZB	C1	SMU9980880							143749	0	1	143724	L75D	5744	ET32
ET 31	SMU9980360	UNL	09	SMU9910940-C02	----P--						143749	7	3	143749	L70I	5749	ET37
ET 32	SMU9980360	TZB	C	SMU9980930							143749	0	9	1222852	Z0VB	5750	AS06
ET 33	SMU9980360	TR	00	SMU9980930							143749	1	143764	L76D	5752	ET40	
ET 34	SMU9980900	UNL	08	SMU9910940-C01	----D-						143759	7	8	1222853	Z05C	5748	AS06
ET 35	SMU9980910	TZB	C	SMU9980930							143759	0	3	143749	L70I	5749	ET37
ET 36	SMU9980910	UNL	09	SMU9910940-C02	----P--						143759	0	9	1222851	Z05A	5753	AS06
ET 37	SMU9980930	TZB	C	SMU9980950							143759	0	4	143759	LX5I	5751	ET39
ET 38	SMU9980930	TR	00	SMU9980960							143754	1	143764	L76D	5752	ET40	
ET 39	SMU9980950	UNL	08	SMU9910940-C03	----D---						143759	7	8	1222851	Z05A	5753	AS06
ET 40	SMU9980960	TR	00	SMU9977100							143764	1	142214	K21D	5754	EM23	
ET 41	SMU9981000	TZB	C	ALL CHARS	---I-II	BB					143769	0	7	143799	LX1I	5756	EU07

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INDEX	OP	NU AT	OPERAAND	PROGRAM	ADDRESS	LOC	OP SU	ADDRESS	COMMENT
EU 01	UNL	09	8MU9910940-C06	P-----	143779 1	143799 L791 5758			
EU 02	UNL	09	8MU9910940-C06	P-----	143774 7	9 122848 20AH 5757			
EU 03	8MU9981030	TZB	C	8MU9981050	143784 *	7 143794 LX10 5760			
EU 04	8MU9981030	TZB	C	8MU9981050	143784 *	143794 L791 5761			
EU 05	8MU9910940-C06	D-----			143784 *	143794 L791 5761			
EU 06	8MU9981050	UNL	08	8MU9910940-C06	D-----	143794 7	8 122848 20AH 5762		
EU 07	8MU9981060	TZB	C1	8MU9981080	143799 *	1 143799 L851 5763			
EU 08	TR	00	8MU9981090		143804 I	143814 L810 5764			
EU 09	8MU9981080	UNL	08	8MU9910940	D-----	143809 7	8 122854 20SD 5765		
EU 10	8MU9981090	TZB	02	8MU9981110	143814 *	2 143824 L8K0 5766			
EU 11	TR	00	8MU9981120		143819 1	143829 L821 5767			
EU 12	8MU9981110	UNL	08	8MU9910940-001	D-----	143824 7	8 122853 205C 5768		
EU 13	8MU9981120	TZB	4	8MU9981140	143829 *	3 143839 L8C1 5769			
EU 14	8MU9981140	UNL	09	8MU9910940-002	-----P--	143834 7	9 122852 20A8 5770		
EU 15	8MU9981140	TZB	8	8MU9981160	143839	4 143849 LY41 5771			
EU 16	TR	00	8MU9981170		143844 I	143854 L850 5772			
EU 17	8MU9981160	UNL	08	8MU9910940-C03	-----D--	143849 7	8 122851 205A 5773		
EU 18	8MU9981170	TR	00	8MU9977100		143854 I	142214 K21D 5774		
EU 19	ALL CHARS	---I1---	88			143869 1	143889 LY81 5778		
EU 20	8MU9981200	TZB	C	8MU9981260	143864 *	7 143889 LYH1 5776			
EU 21	8MU9981200	UNL	09	8MU9910940-006	P-----	143864 7	9 122848 20UH 5777		
EU 22	TR	00	8MU9981260		143869 1	143889 LY81 5778			
EU 23	8MU9931230	TZB	C	8MU9981250		143874 *	7 143884 LYHD 5780		
EU 24	8MU9931230	TZB	C	8MU9981250		143874	1 143879 I	143879 I	EU26
EU 25	TR	00	8MU9981260		143879 I	143889 LY81 5781			
EU 26	8MU9981250	UNL	08	8MU9910940-006	D-----	143884	7 8 122848 20AH 5782		
EU 27	8MU9981260	TZB	01	8MU9981280	143889 *	1 143899 LY81 5783			
EU 28	8MU9981280	UNL	09	8MU9910940	-----P	143889	7 9 122854 20VD 5784		
EU 29	8MU9981280	TZB	02	8MU9981300	143899	2 143909 LY9-I 5785			
EU 30	8MU9981300	UNL	09	8MU9910940-001	-----P-	143904 *	9 122853 20VC 5786		
EU 31	8MU9981300	TZB	4	8MU9981320	143904	3 143919 LY9AI 5787			
EU 32	TR	00	8MU9981330		143909 *	3 143919 LY9AI 5787			
EU 33	8MU9981320	UNL	08	8MU9910940-C02	-----D--	143919	7 8 122852 205B 5789		
EU 34	8MU9981330	TZB	8	8MU9981350	143924 *	4 143934 LY9AI 5780			
EU 35	TR	00	8MU9981360		143924	1 143934 LY9AI 5781			
EU 36	8MU9981350	UNL	08	8MU9910940-C03	-----D---	143934 7	8 122851 205A 5802		
EU 37	8MU9981360	TR	00	8MU9977100		143939 1	142214 K21D 5803		
EU 38	RCD	C				143939	1 143939 X	143939 Y	AS06
EU 39						143939	1 143939 X	143939 Y	AS06
EU 40						143939	1 143939 X	143939 Y	AS06
EU 41						143939	1 143939 X	143939 Y	AS06
EU 42						143939	1 143939 X	143939 Y	AS06

INDEX	TAG	CP	NU AT	OPERAND	PROGRAM	SMU99	-	-	COMMENTS	LOC	OP SU	ADDRESS	PGLIN	SER REF
EV 01		05	6	*	*	-----	-----	-----	-----	-----	-----	143959	5809	
EV 02		NAME	00	CON	0	GENERATED TO REPLACE DRCD, DCN, OR DFN	143960	SMU99		5810				
EV 03		EV 04	8MU9950000	CON	0	GENERATED TO REPLACE DRCD, DCN, OR DFN	143959							
EV 05		35	000 000	000009	000009	000009	143959							
EV 06		35	002 001	040029	000029	040009	144029							
EV 07		35	003 003	040079	000059	000049	144064							
EV 08		35	004 004	000309	000309	000209	144019							
EV 09		35	005 005	040329	000229	00019	144134							
EV 10		35	006 006	000359	000249	000119	144204							
EV 11		35	007 007	040379	000269	040119	144239							
EV 12		35	008 008	001409	000409	001009	144274							
EV 13		35	009 009	041429	000429	041009	144309							
EV 14		35	010 010	001459	000449	001019	144344							
EV 15		35	011 011	041479	000469	041019	144379							
EV 16		35	012 012	001709	000609	001109	144414							
EV 17		35	013 013	041729	000629	041109	144449							
EV 18		35	014 014	001759	000649	001119	144484							
EV 19		35	015 015	041779	000669	041119	144519							
EV 20		CON	0	GENERATED TO REPLACE DRCD, DCN, OR DFN	144519									
EV 21		CON	0	GENERATED TO REPLACE DRCD, DCN, OR DFN	144519									
EV 22		EV 23	35	016 016	012009	002009	010009							
EV 24		EV 25	35	018 018	012029	002029	050009	144589						
EV 26		EV 27	35	019 019	052079	002079	020049	144624						
EV 28		EV 29	35	020 020	012309	002209	010109	144659						
EV 30		EV 31	35	021 021	052329	002229	050109	144694						
EV 32		EV 33	35	022 022	012359	002249	010119	144729						
EV 34		EV 35	35	023 023	052379	002269	050119	144799						
EV 36		EV 37	35	024 024	013409	002409	011009	144834						
EV 38		EV 39	35	025 025	053429	002429	051009	144869						
EV 40		EV 41	35	026 026	013459	002449	011019	144904						
EV 42		EV 43	35	027 027	053479	002469	051019	144939						
EV 44		EV 45	35	028 028	013709	002609	011109	144974						
EV 46		EV 47	35	029 029	053729	002629	051109	145009						
EV 48		EV 49	35	030 030	013759	002649	011119	145044						
EV 49		EV 50	35	031 031	053779	002669	051119	145079						
EV 50			5845											
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INDEX TAG OF ADDRESS LOC OF SU COMMENTS OP NU AT OPERAND PROGRAM 8M99 - -

			TITLE	CON	O	DFPN	DCON, OR DCON, OR DRCB, TO REPLACE DRCB, GENERATED	0	EW 24
5883	398	5881	146199	00009	0000809	0000809	0000809	000009	EW 25
5883	398	5881	146234	040009	0000829	0000829	0000829	00009	EW 26
5883	398	5881	146269	040009	0000849	0000849	0000849	00009	EW 27
5883	398	5881	146339	040019	0000869	0000869	0000869	00009	EW 28
5883	398	5881	146340	040019	0000859	0000859	0000859	00009	EW 29
5883	398	5881	146374	040019	0002909	0002909	0002909	00009	EW 30
5883	398	5881	146409	040119	002829	002829	002829	00009	EW 31
5883	398	5881	146444	040119	000119	000119	000119	00009	EW 32
5883	398	5881	146479	040119	004869	004869	004869	00009	EW 33
5883	398	5881	146549	041009	004829	004829	004829	00009	EW 34
5883	398	5881	146584	041019	004859	004859	004859	00009	EW 35
5883	398	5881	146619	041019	004879	004879	004879	00009	EW 36
5883	398	5881	146689	041109	006829	006829	006829	00009	EW 37
5883	398	5881	146724	041119	007959	007959	007959	00009	EW 38
5883	398	5881	146759	041119	047979	047979	047979	00009	EW 39
5883	398	5881	146799	041119	047979	047979	047979	00009	EW 40
5883	398	5881	146864	041119	04869	04869	04869	00009	EW 41
5883	398	5881	146869	041119	050019	050019	050019	00009	EW 42
5883	398	5881	146899	041119	050109	050109	050109	00009	EW 43
5883	398	5881	146934	041119	058329	058329	058329	00009	EW 44
5883	398	5881	146939	041119	058339	058339	058339	00009	EW 45
5883	398	5881	146964	041119	05869	05869	05869	00009	EW 46
5883	398	5881	146999	041119	061019	061019	061019	00009	EW 47
5883	398	5881	145334	041119	061109	061109	061109	00009	EW 48
5883	398	5881	145534	041119	061109	061109	061109	00009	EW 49
5883	398	5881	145639	041119	061109	061109	061109	00009	EW 50

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EY 01 LASN 0159990  
EY 02 CON 0 GENERATE TO 1006  
EY 03 3M09999990 06