

9M03A

709 INDEXING TEST-4K,8K AND 32K STORAGES

A. UNIT TESTED

1. PURPOSE OF TEST

TO GIVE A COMPREHENSIVE TEST OF ALL INDEXING INSTRUCTIONS AND INDEX REGISTERS, INCLUDING MULTIPLE TAG INDEXING.

2. METHOD OF TEST

THIS PROGRAM MAY BE DIVIDED INTO 5 PARTS

A. 000000-01411 A BASIC TEST WHICH STARTS WITH THE ASSUMPTION THAT ONLY HTR AND AXT ARE WORKING AND CHECKS THAT THE 20 INDEXING INSTRUCTIONS ARE OPERATING CORRECTLY. THIS PART OF THE TEST CHECKS THE DECODING, OPERATION AND ROUTING OF EACH INSTRUCTION RATHER THEN THE REGISTERS THEMSELVES, SINCE ONLY XRA IS USED.

B. 01412-01763 SIZE OF STORAGE TEST-TESTS FOR A 4,8,16 OR 32K STORAGE AND SETS APPORRIATE CONSTANTS.

C. 01764-06733 COMPREHENISIVE TEST OF ALL INDEX REGISTERS, INCLUDING MULTIPLE TAG INDEXING.

D. 06734 PRINT SECTION FOR PROGRAM NAME.

E. 06771 PRINT SECTION FOR PASS COMPLETE.

B. AREA OF MACHINE REQUIRED

1. MF, CF, CR, AND PR.

2. STORAGE LOCATIONS 00000-07025

C. PROGRAM CONTROL

1.

| | |
|---------|-------------------------|
| 000 | 9LD02A HIGH END LOADER |
| 001-164 | 9M03A PROGRAM |
| 165 | TRANSFER CARD-TRA 06734 |
| 166-167 | 2 BLANK CARDS |

2. SENSE SWITCH CONTROL

| | |
|-------------------|--------------------------|
| A. SWITCH #1 UP | NEXT SECTION OF PROGRAM |
| B. SWITCH #1 DOWN | REPEAT PRESENT SECTION |
| C. SWITCH #2 UP | STOP ON ERROR |
| D. SWITCH #2 DOWN | BYPASS ERROR |
| E. SWITCH #3 UP | COUNT BY 100 |
| F. SWITCH #3 DOWN | COUNT BY 1000 |
| G. SWITCH #4 UP | COUNT BY 1 |
| H. SWITCH #4 DOWN | TEST SWITCH #3 |
| I. SWITCH #5 UP | BYPASS HPR AND TSX HALT |
| J. SWITCH #5 DOWN | TEST HPR AND TSX ON HALT |
| K. SWITCH #6 UP | CALL IN NEXT DIAGNOSTIC |
| L. SWITCH #6 DOWN | REPEAT COMPLETE TEST |

NORMAL STOPS

00000 - AFTER PRINTING OUT THE PROGRAM NAME, THE MACHINE WILL STOP IN ORDER TO CHECK HTR TO 00001. HOWEVER, FOR ALL FOLLOWING PASSES THE PROGRAM NAME WILL NOT BE PRINTED OUT NOR WILL THERE BE A STOP AT 00000 AS THE PROGRAM WILL AUTOMATICALLY TRANSFER TO 00001.

02660 - WITH SWITCH #5 DOWN - TEST HPR AND TSX FOR XRA.

04035 - WITH SWITCH #5 DOWN - TEST HPR AND TSX FOR XRB.

05211 - WITH SWITCH #5 DOWN - TEST HPR AND TSX FOR XRC.

ERROR STOPS

SINCE THE FIRST PART OF THE PROGRAM - UP TO 01764-DOES NOT USE SENSE SWITCHES ALL ERROR STOPS WILL BE HTR.

IN THE LAST PART OF THE PROGRAM -BEYOND 01764- AN ERROR STOP WILL APPEAR IN EACH SECTION FOLLOWING SENSE SWITCH #2 TEST.

NOTE - SWITCH #2 MUST BE UP TO STOP ON ERROR.

PRINT OUTS

THIS PROGRAM DOES NOT USE 4DEPR. IT DOES HOWEVER HAVE ITS OWN PRINT IMAGE FOR PROGRAM NAME, STORAGE SIZE, AND PASS COMPLETE.

1. 06741 -NOW RUNNING 9M03A INDEXING TEST - PRINTS OUT FOR THE FIRST PASS ONLY.

2. 01575 -SETTING CONSTANSTS FOR --K CAPACITY STORAGE - PRINTS OUT FOR THE FIRST PASS ONLY.

3. 06776 -PASS COMPLETE 9M03A-

G. COMMENTS

THE STANDARD PRINT ROUTINE WAS NOT INCLUDED WITH THIS TEST, AS THE PRINT ROUTINE ITSELF USES A GREAT DEAL OF INDEXING.

IF IT IS DESIRABLE TO TEST ONLY INDEX REGISTER A-PLACE A TRA TO 01764 AT LOCATION 03136 AND TRANSFER MANUALLY TO 01764.

TO LOOP IN XRB SECTION, PLACE A TRA TO 03140 AT LOCATION 04313 AND TRANSFER MANUALLY TO 03140.

TO LOOP IN XRC SECTION, PLACE A TRA TO 04315 IN LOCATION 05467 AND TRANSFER MANUALLY TO 04315.

TO LOOP IN MULTIPLE TAG INDEXING, PLACE TRA TO 05471 IN LOCATION 06565 AND TRANSFER MANUALLY TO 05471.

TEST LOCATIONS

0 TEST - HTR - HALT AND TRANSFER
2 TEST - TXL-TRANSFER ON XR LOW OR EQUAL
6 TEST - TXL WITH XRA LOW
36 TEST - TXL WITH ZERO TAG
43 TEST - TXL WITH ZERO TAG AND DECREMENT
67 TEST - TXL WITH XRA HIGH
136 TEST - NO TRANSFER WITH TXL ON XRA HIGH
166 TEST - NO TRANSFER WITH TXH ON XRA EQUAL
212 TEST - NO TRANSFER ON TXH WITH XRA LOW
232 TEST - THAT TXL AND TXH DO NOT CHANGE XRA
305 TEST - TNX WITH XRA LOW
321 TEST - TNX WITH XRA EQUAL
333 TEST - TIX WITH XRA LOW
351 TEST - TIX WITH XRA EQUAL
407 TEST - AXC-ADDRESS TO INDEX COMPLEMENTED
424 TEST - TIX-TRANSFER ON INDEX
442 TEST - NO TRANSFER AND DECREMENT WITH TNX
452 TEST - COUNT-DOWN WITH TIX
462 TEST - COUNT-DOWN WITH TNX
472 TEST - TXI-TRANSFER WITH XR INCREMENTED
527 TEST - COUNT-DOWN WITH TXI, TIX, TNX

546 TEST - TSX TRANSFER AND SET INDEX
562 TEST - LXA-LOAD INDEX FROM ADDRESS
636 TEST - LAC-LOAD COMPLEMENT OF ADDRESS IN INDEX
720 TEST - SXA-STORE INDEX IN ADDRESS
751 TEST - LXD-LOAD INDEX FROM DECREMENT
775 TEST - SXD-STORE INDEX IN DECREMENT
1043 TEST - LDC-LOAD COMPLEMENT OF DECREMENT IN INDEX
1101 TEST - PDX-PLACE DECREMENT IN INDEX
1122 TEST - PDC-PLACE COMPLEMENT OF DECREMENT IN INDEX
1145 TEST - PAX-PLACE ADDRESS IN INDEX
1166 TEST - PAC-PLACE COMPLEMENT OF ADDRESS IN INDEX
1241 TEST - PXD-PLACE INDEX IN DECREMENT
1311 TEST - PXA-PLACE INDEX IN ADDRESS

1412 TEST - SIZE OF STORAGE

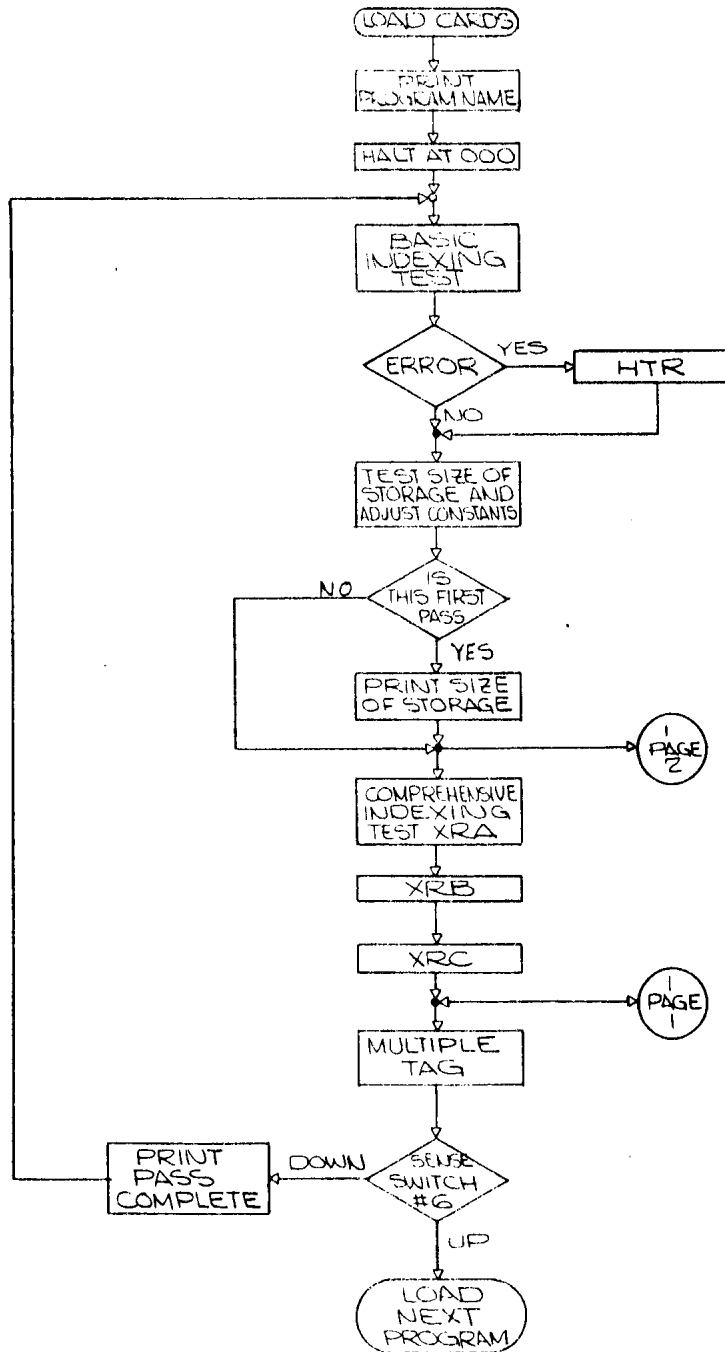
XRA XRB XRC
1764-3140-4315 TEST - THAT NO INDEX TAG LEAVES ADDRESS UNALTERED
1774-3150-4325 TEST - XR IS RESET TO ZERO IF ADDRESSES ARE MODIFIED
2006-3162-4337 TEST - PLACE XR IN DECREMENT
2017-3205-4362 TEST - PLACE XR IN DECREMENT AND COMPLEMENT
2037-3225-4402 TEST - STORE DECREMENT AFTER PXD AND COMPLEMENT
2047-3235-4412 TEST - LOAD INDEX FROM DECREMENT & PLACE INDEX IN DEC.
2073-3247-4424 TEST - ADDRESS MODIFICATION
2114-3270-4445 TEST - TRANSFER WITH INDEX INCREMENTED
2134-3310-4465 TEST - STORE INDEX IN DECREMENT
2157-3333-4510 TEST - PLACE DECREMENT IN INDEX
2171-3345-4522 TEST - LOAD INDEX FROM ADDRESS
2204-3360-4570 TEST - PLACE ADDRESS IN INDEX
2217-3373-4570 TEST - TRANSFER ON INDEX HIGH, WHEN INDEX IS LOW
2237-3413-4570 TEST - TRANSFER ON INDEX HIGH, WHEN INDEX IS EQUAL
2257-3433-4610 TEST - TRANSFER ON INDEX HIGH, WHEN INDEX IS HIGH
2276-3453-4627 TEST - TRANSFER ON INDEX LOW, WHEN INDEX IS HIGH
2316-3473-4647 TEST - TRANSFER ON INDEX LOW, WHEN INDEX IS EQUAL
2335-3512-4666 TEST - TRANSFER ON INDEX LOW, WHEN INDEX IS LOW
2354-3531-4705 TEST - TRANSFER ON INDEX, WHEN INDEX IS HIGH
2373-3550-4724 TEST - TRANSFER ON INDEX, WHEN INDEX IS EQUAL
2413-3570-4744 TEST - TRANSFER ON INDEX, WHEN INDEX IS LOW
2433-3610-4764 TEST - TRANSFER ON NO INDEX, WHEN INDEX IS LESS THAN DEC.
2452-3627-5003 TEST - TRANSFER ON NO INDEX, WHEN INDEX IS EQUAL TO DEC.
2471-3646-5022 TEST - TRANSFER ON NO INDEX, WHEN INDEX IS GREATER THAN DEC.
2511-3666-5042 TEST - TRANSFER AND SET INDEX
2530-3705-5061 TEST - TRANSFER ON INDEX FOR COUNTING
2560-3735-5111 TEST - TRANSFER ON NO INDEX FOR COUNTING
2606-3763-5137 TEST - TRANSFER ON INDEX INCREMENTED FOR COUNTING
2635-4012-5166 TEST - ADDRESS MODIFICATION FOR ALL POSITIONS IN MEMORY
2713-4070-5244 TEST - PLACE INDEX IN ADDRESS
2747-4124-5300 TEST - PLACE INDEX IN ADDRESS AND COMPLEMENT
2767-4144-5320 TEST - STORE ADDRESS AFTER COMPLEMENT

2777-4154-5330 TEST - STORE INDEX IN ADDRESS
3034-4211-5365 TEST - PLACE 2-S COMPLEMENT OF ADDRESS IN INDEX
3051-4226-5402 TEST - PLACE 2-S COMPLEMENT OF DECREMENT IN INDEX
3066-4243-5417 TEST - LOAD ADDRESS 2-S COMPLEMENT IN INDEX
3100-4255-5431 TEST - LOAD DECREMENT 2-S COMPLEMENT IN INDEX
3112-4267-5443 TEST - LOAD OWN ADDRESS IN INDEX
3125-4302-5456 TEST - LOAD COMPLEMENT OF OWN ADDRESS

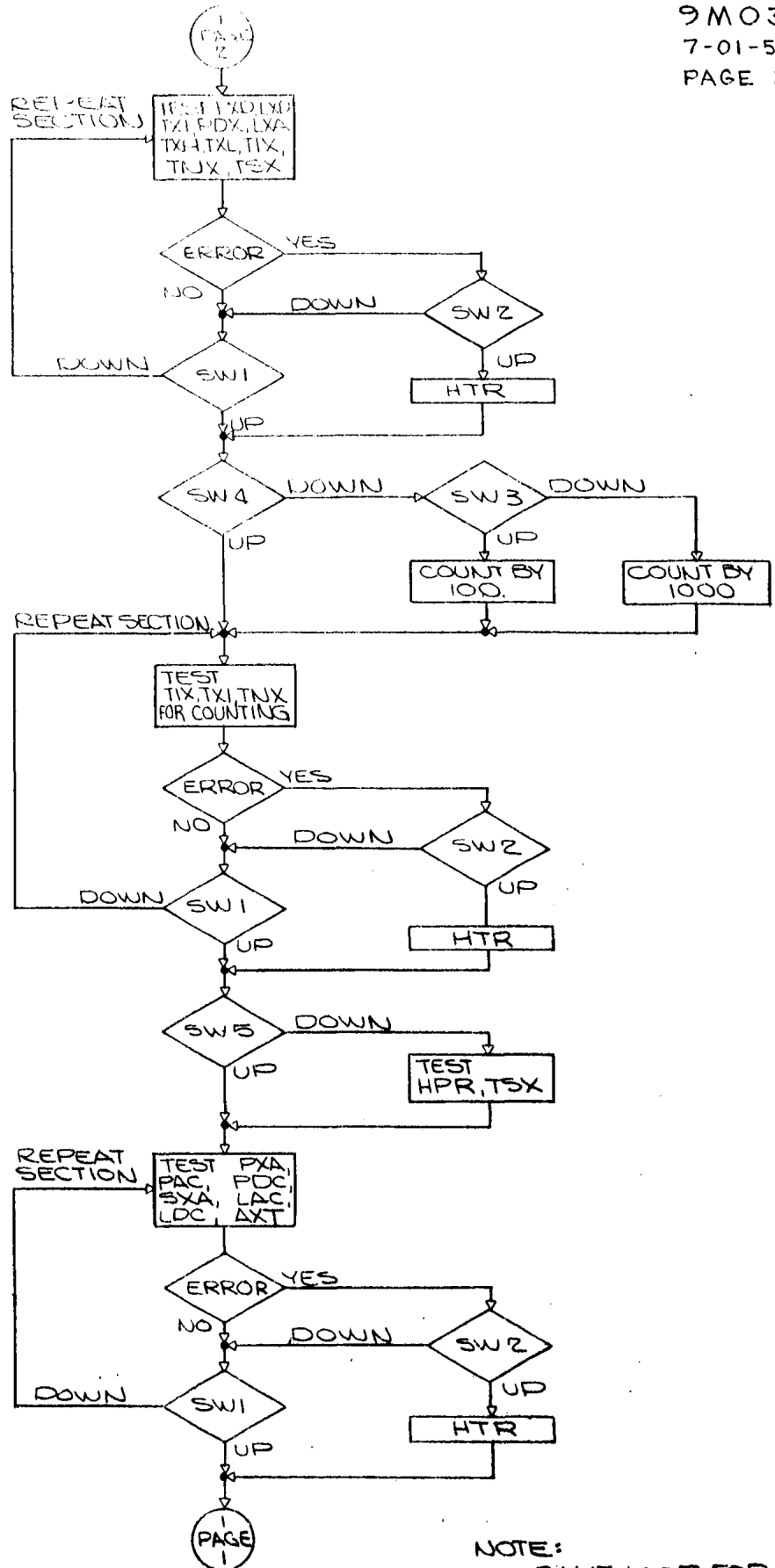
MULTIPLE TAG

5461 TEST - TAG ONE
5520 TEST - TAG TWO
5543 TEST - TAG THREE
5567 TEST - TAG FOUR
5613 TEST - TAG FIVE
5637 TEST - TAG SIX
5663 TEST - TAG SEVEN
5707 TEST - INDEX READ IN WITH MULTIPLE TAG
5751 TEST - TAG ZERO
6025 TEST - TRANSFER ON INDEX
6100 TEST - TRANSFER ON INDEX LOW
6153 TEST - TRANSFER ON NO INDEX
6226 TEST - TRANSFER ON INDEX INCREMENTED
6300 TEST - TRANSFER AND SET INDEX TAG ONE
6343 TEST - TRANSFER AND SET INDEX TAG ZERO
6404 TEST - LOAD INDEX FROM ADDRESS TAG ZERO
6433 TEST - LOAD INDEX FROM DECREMENT TAG ZERO
6462 TEST - PLACE ADDRESS IN INDEX TAG ZERO
6512 TEST - PLACE DECREMENT IN INDEX TAG ZERO
6542 TEST - STORE INDEX IN DECREMENT TAG ZERO
6556 TEST - PLACE INDEX IN DECREMENT TAG ZERO

6



7



NOTE:
SAME LOOP FOR XRA,
XRB, AND XRC

* 9M03A INDEXING TEST

00000 0000 00 0 00001 HTR *+1 HALT OK, PRESS START,,

TEST XRA FIRST
TRANSFER ON TXL. ADDER X CARRY AT ER6
WITH XRA LOW OF EQUAL.

00001 0774 00 1 00300 SWING AXT 3C,1 300 TO XRA
00002 -3 03000 1 00004 TXL *+2,1,3M SHOULD TRANSFER, XRA
LOW, ADDER X CARRY AT
ER6. SYSTEMS 2.07.02

00003 0000 00 0 00004 HTR *+1 FAILED TO TRANSFER ON
LOW XRA=300. DEC=3000.

TRY TXL AGAIN TO SEE IF XRA STILL HAS
300

00004 -3 00300 1 00006 TXL *+2,1,3C SHOULD TRANSFER

00005 0000 00 0 00006 HTR *+1 FAILED TO TRANSFER. XRA
SHOULD STILL HAVE 300.
IF THERE WAS NO STOP AT
LOC 2. THEN XRA MAY HAVE
BEEN CHANGED.
SYSTEMS 2.08.53

TXL WITH XRA LOW

00006 0774 00 1 00200 LOW AXT 2C,1 200 TO XRA
00007 -3 00300 1 00011 TXL *+2,1,3C SHOULD TRANSFER

00010 0000 00 0 00011 HTR *+1 FAILED TO TRANSFER
ON XRA LOW
XRA=200, DEC=300

00011 0774 00 1 00200 AXT 2C,1 200 TO XRA
00012 -3 00201 1 00014 TXL *+2,1,2C+1 SHOULD TRANSFER

00013 0000 00 0 00014 HTR *+1 FAILED TO TRANSFER
ON XRA ONE LESS THEN DEC.
XRA=200, DEC=201

00014 0774 00 1 00001 AXT 1,1 1 TO XRA
00015 -3 77777 1 00017 TXL *+2,1,32K SHOULD TRANSFER

00016 0000 00 0 00017 HTR *+1 FAILED TO TRANFER ON

XRA LOW
XRA=1, DEC=77777

| | | | | | | | |
|-------|------|-------|---|-------|-----|----------------------|--|
| 00017 | 0774 | 00 | 1 | 77776 | AXT | 32K-1,1 | 77776 TO XRA |
| 00020 | -3 | 77777 | 1 | 00022 | TXL | *+2,1,32K | SHOULD TRANSFER |
| 00021 | 0000 | 00 | 0 | 00022 | HTR | *+1 | FAILED TO TRANSFER ON XRA ONE LESS THEN DEC. XRA=7776, DEC=77777 |
| 00022 | 0774 | 00 | 1 | 00000 | AXT | 0,1 | CLEAR XRA |
| 00023 | -3 | 00001 | 1 | 00025 | TXL | *+2,1,1 | SHOULD TRANSFER |
| 00024 | 0000 | 00 | 0 | 00025 | HTR | *+1 | FAILED TO TRANSFER ON XRA ZERO XRA=0, DEC=1 |
| 00025 | 0774 | 00 | 1 | 00000 | AXT | 0,1 | CLEAR XRA |
| 00026 | -3 | 40000 | 1 | 00030 | TXL | *+2,1,40M | SHOULD TRANSFER |
| 00027 | 0000 | 00 | 0 | 00030 | HTR | *+1 | FAILED TO TRANSFER ON XRA ZERO XRA=0, DEC=40000 |
| 00030 | 0774 | 00 | 1 | 00000 | AXT | 0,1 | CLEAR XRA |
| 00031 | -3 | 00000 | 1 | 00033 | TXL | *+2,1,0 | SHOULD TRANSFER |
| 00032 | 0000 | 00 | 0 | 00033 | HTR | *+1 | FAILED TO TRANSFER ON BOTH XRA AND DEC=0 |
| 00033 | 0774 | 00 | 1 | 22223 | AXT | A2+1,1 | 22223 TO XRA |
| 00034 | -3 | 55555 | 1 | 00036 | TXL | *+2,1,50M+5M+5C+5D+5 | SHOULD TRANSFER EXCEPT ON 16K MACHINES |
| 00035 | 0000 | 00 | 0 | 00036 | HTR | *+1 | FAILED TO TRANSFER WITH TWOS COMP. OF XRA EQAUL TO DEC. XRA=2223, DEC=55555 COMP. OF XRA=55555 |

TXL WITH ZERO TAG

| | | | | | | | |
|-------|------|-------|---|-------|-----------|-----------|---|
| 00036 | 0774 | 00 | 1 | 77777 | SWEET AXT | 32K,1 | ALL 7-S TO XRA |
| 00037 | -3 | 00001 | 0 | 00041 | TXL | *+2,0,1 | SHOULD TRANSFER |
| 00040 | 0000 | 00 | 0 | 00041 | HTR | *+1 | FAILED TO TRANSFER WITH ZERO TAG DEC=1 |
| 00041 | -3 | 77777 | 0 | 00043 | TXL | *+2,0,32K | SHOULD TRANSFER |
| 00042 | 0000 | 00 | 0 | 00043 | HTR | *+1 | FAILED TO TRANSFER WITH ZERO TAG DEC =77777 |

TXL WITH ZERO TAG AND DECREMENT

| | | | | | | | |
|-------|------|-------|---|-------|-----|-----|--------------------|
| 00043 | -3 | 00000 | 0 | 00045 | TXL | *+2 | |
| 00044 | 0000 | 00 | 0 | 00045 | HTR | *+1 | FAILED TO TRANSFER |
| 00045 | -3 | 00000 | 0 | 00047 | TXL | *+2 | |
| 00046 | 0000 | 00 | 0 | 00047 | HTR | *+1 | FAILED TO TRANSFER |
| 00047 | -3 | 00000 | 0 | 00051 | TXL | *+2 | |
| 00050 | 0000 | 00 | 0 | 00051 | HTR | *+1 | FAILED TO TRANSFER |
| 00051 | -3 | 00000 | 0 | 00053 | TXL | *+2 | |
| 00052 | 0000 | 00 | 0 | 00053 | HTR | *+1 | FAILED TO TRANSFER |
| 00053 | -3 | 00000 | 0 | 00055 | TXL | *+2 | |
| 00054 | 0000 | 00 | 0 | 00055 | HTR | *+1 | FAILED TO TRANSFER |
| 00055 | -3 | 00000 | 0 | 00057 | TXL | *+2 | |
| 00056 | 0000 | 00 | 0 | 00057 | HTR | *+1 | FAILED TO TRANSFER |
| 00057 | -3 | 00000 | 0 | 00061 | TXL | *+2 | |
| 00060 | 0000 | 00 | 0 | 00061 | HTR | *+1 | FAILED TO TRANSFER |
| 00061 | -3 | 00000 | 0 | 00063 | TXL | *+2 | |
| 00062 | 0000 | 00 | 0 | 00063 | HTR | *+1 | FAILED TO TRANSFER |
| 00063 | -3 | 00000 | 0 | 00065 | TXL | *+2 | |
| 00064 | 0000 | 00 | 0 | 00065 | HTR | *+1 | FAILED TO TRANSFER |
| 00065 | -3 | 00000 | 0 | 00067 | TXL | *+2 | |
| 00066 | 0000 | 00 | 0 | 00067 | HTR | *+1 | FAILED TO TRANSFER |

TRY TXH WITH XRA HIGH

| | | | | | | | |
|-------|------|-------|---|-------|------|----------------------|--|
| 00067 | 0774 | 00 | 1 | 00200 | CHAR | AXT 2C,1 | 200 TO XRA |
| 00070 | 3 | 00100 | 1 | 00072 | | TXH *+2,1,C | SHOULD TRANSFER |
| 00071 | 0000 | 00 | 0 | 00072 | HTR | *+1 | FAILED TO TRANSFER ON XRA HIGH XRA=200, DEC=100 NO ADDER X CARRY AT ER6 SHOULD CAUSE TRANSFER. SYSTEM 2.07.02 |
| 00072 | 0774 | 00 | 1 | 00001 | | AXT 1,1 | 1 TO XRA |
| 00073 | 3 | 00000 | 1 | 00075 | | TXH *+2,1,0 | SHOULD TRANSFER |
| 00074 | 0000 | 00 | 0 | 00075 | HTR | *+1 | FAILED TO TRANSFER ON XRA=1, DEC=0 |
| 00075 | 0774 | 00 | 1 | 55555 | | AXT 50M+5M+5C+5D+5,1 | ALL 5-S TO XRA |
| 00076 | 3 | 22222 | 1 | 00100 | | TXH *+2,1,A2 | SHOULD TRANSFER, EXCEPT ON 16K MACHINES. |
| 00077 | 0000 | 00 | 0 | 00100 | HTR | *+1 | FAILED TO TRANSFER XRA=55555, DEC=22222 |
| 00100 | 0774 | 00 | 1 | 74000 | | AXT 70M+4M,1 | 74000 TO XRA |
| 00101 | 3 | 02000 | 1 | 00103 | | TXH *+2,1,2M | SHOULD TRANSFER |
| 00102 | 0000 | 00 | 0 | 00103 | HTR | *+1 | FAILED TO TRANSFER XRA=74000, DEC=2000 |
| 00103 | 0774 | 00 | 1 | 76000 | | AXT 70M+6M,1 | 76000 TO XRA |

| | | | | | | | |
|-------|------|-------|---|-------|-----|----------------|--|
| 00104 | 3 | 01000 | 1 | 00106 | TXH | *+2,1,M | SHOULD TRANSFER |
| 00105 | 0000 | 00 | 0 | 00106 | HTR | *+1 | FAILED TO TRANSFER XRA=76000, DEC =1000 |
| 00106 | 0774 | 00 | 1 | 77000 | AXT | 70M+7M,1 | 77000 TO XRA |
| 00107 | 3 | 00400 | 1 | 00111 | TXH | *+2,1,4C | SHOULD TRANSFER |
| 00110 | 0000 | 00 | 0 | 00111 | HTR | *+1 | FAILED TO TRANSFER XRA=77000, DEC=400 |
| 00111 | 0774 | 00 | 1 | 77400 | AXT | 70M+7M+4C,1 | 77400 TO XRA |
| 00112 | 3 | 00200 | 1 | 00114 | TXH | *+2,1,2C | SHOULD TRANSFER |
| 00113 | 0000 | 00 | 0 | 00114 | HTR | *+1 | FAILED TO TRANSFER XRA=77400, DEC=200 |
| 00114 | 0774 | 00 | 1 | 77600 | AXT | 70M+7M+6C,1 | 77600 TO XRA |
| 00115 | 3 | 00100 | 1 | 00117 | TXH | *+2,1,C | SHOULD TRANSFER |
| 00116 | 0000 | 00 | 0 | 00117 | HTR | *+1 | FAILED TO TRANSFER XRA=77600, DEC=100 |
| 00117 | 0774 | 00 | 1 | 77700 | AXT | 70M+7M+7C,1 | 77700 TO XRA |
| 00120 | 3 | 00040 | 1 | 00122 | TXH | *+2,1,4D | SHOULD TRANSFER |
| 00121 | 0000 | 00 | 0 | 00122 | HTR | *+1 | FAILED TO TRANSFER XRA=77700, DEC=40 |
| 00122 | 0774 | 00 | 1 | 77740 | AXT | 70M+7M+7C+4D,1 | 77740 TO XRA |
| 00123 | 3 | 00020 | 1 | 00125 | TXH | *+2,1,2D | SHOULD TRANSFER |
| 00124 | 0000 | 00 | 0 | 00125 | HTR | *+1 | FAILED TO TRANSFER XRA=77740, DEC=20 |
| 00125 | 0774 | 00 | 1 | 77760 | AXT | 70M+7M+7C+6D,1 | 77760 TO XRA |
| 00126 | 3 | 00010 | 1 | 00130 | TXH | *+2,1,D | SHOULD TRANSFER |
| 00127 | 0000 | 00 | 0 | 00130 | HTR | *+1 | FAILED TO TRANSFER XRA=77760, DEC =10 |
| 00130 | 0774 | 00 | 1 | 77770 | AXT | 32K-7,1 | 77770 TO XRA |
| 00131 | 3 | 00004 | 1 | 00133 | TXH | *+2,1,4 | SHOULD TRANSFER |
| 00132 | 0000 | 00 | 0 | 00133 | HTR | *+1 | FAILED TO TRANSFER XRA=77770, DEC=4 |
| 00133 | 0774 | 00 | 1 | 77774 | AXT | 32K-3,1 | 77774 TO XRA |
| 00134 | 3 | 00002 | 1 | 00136 | TXH | *+2,1,2 | SHOULD TRANSFER |
| 00135 | 0000 | 00 | 0 | 00136 | HTR | *+1 | FAILED TO TRANSFER XRA=77774, DEC=2. |

THE PROGRAM WILL NOW ASSUME THAT
TXL WILL TRANSFER ON ZERO TAG AND

XRA LOW, AND THAT TXH WILL TRANSFER
ON XRA HIGH. WE WILL USE THESE
FACTS TO SEE THAT TXL WILL NOT
TRANSFER ON XRA HIGH AND THAT TXH
WILL NOT TRANSFER ON XRA LOW. IF
THERE HAS BEEN AN ERROR IN THE
PRECEEDING TEST, THEY SHOULD BE
INVESTIGATED BEFORE WE CONTINUE.

NO TRANSFER WITH TXL ON XRA HIGH.

| | | | | | | | |
|-------|------|-------|---|-------|---------|----------------------|---|
| 00136 | 0774 | 00 | 1 | 00200 | IOT | AXT 2C,1 | 200 TO XRA |
| 00137 | -3 | 00100 | 1 | 00141 | | TXL *+2,1,C | SHOULD NOT TRANSFER |
| 00140 | 3 | 00100 | 1 | 00142 | | TXH *+2,1,C | THIS SHOULD TRANSFER IF XRA STILL HAS 200. SEE LOC 70 |
| 00141 | 0000 | 00 | 0 | 00142 | HTR *+1 | | TXL TRANSFERED ON XRA HIGH XRA=200, DEC=100 THIS STOP COULD INDICATE THAT THE TXH AT LOC 140 DID NOT TRANSFER. BUT SINCE WE ASSUME THAT TXH WOULD WORK WITH THIS COMBINATION OF NUMBER-SEE LOC 70-WE SAY THAT THE ERROR WAS CAUSED BY TXL AT 137. |
| 00142 | 0774 | 00 | 1 | 00001 | | AXT 1,1 | 1 TO XRA |
| 00143 | -3 | 00000 | 1 | 00145 | | TXL *+2,1,0 | SHOULD NOT TRANSFER |
| 00144 | 3 | 00000 | 1 | 00146 | | TXH *+2,1,0 | SHOULD TRANSFER, SEE LOC 73. |
| 00145 | 0000 | 00 | 0 | 00146 | HTR *+1 | | TXL TRANSFERED ON XRA HIGH XRA=1, DEC=0 |
| 00146 | 0774 | 00 | 1 | 55555 | | AXT 50M+5M+5C+5D+5,1 | ALL 5-S TO XRA |
| 00147 | -3 | 22222 | 1 | 00151 | | TXL *+2,1,A2 | SHOULD NOT TRANSFER ON 4K,8K, AND 32 MACHINES |
| 00150 | 3 | 22222 | 1 | 00152 | | TXH *+2,1,A2 | SHOULD TRANSFER ON 4K, 8K, AND 32K MACHINES. SEE LOC 76. |
| 00151 | 0000 | 00 | 0 | 00152 | HTR *+1 | | TXL TRANSFERED ON XRA HIGH XRA=55555, DEC=22222 |
| 00152 | 0774 | 00 | 1 | 74000 | | AXT 70M+4M,1 | 74000 TO XRA |
| 00153 | -3 | 02000 | 1 | 00155 | | TXL *+2,1,2M | SHOULD NOT TRANSFER |
| 00154 | 3 | 02000 | 1 | 00156 | | TXH *+2,1,2M | SHOULD TRANSFER. SEE LOC 101. |
| 00155 | 0000 | 00 | 0 | 00156 | HTR *+1 | | TXL TRANSFERED ON XRA HIGH |

XRA =74000, DEC=2000

| | | | | | | | |
|-------|------|-------|---|-------|-----|----------|---|
| 00156 | 0774 | 00 | 1 | 76000 | AXT | 70M+6M,1 | 76000 TO XRA |
| 00157 | -3 | 01000 | 1 | 00161 | TXL | *+2,1,M | SHOULD NOT TRANSFER |
| 00160 | 3 | 01000 | 1 | 00162 | TXH | *+2,1,M | SHOULD TRANSFER, SEE LOC 104 |
| 00161 | 0000 | 00 | 0 | 00162 | HTR | *+1 | TXL TRANSFERED ON XRA HIGH. XRA=76000, DEC=1000 |
| 00162 | 0774 | 00 | 1 | 77000 | AXT | 70M+7M,1 | 77000 TO XRA |
| 00163 | -3 | 00400 | 1 | 00165 | TXL | *+2,1,4C | SHOULD NOT TRANSFER |
| 00164 | 3 | 00400 | 1 | 00166 | TXH | *+2,1,4C | SHOULD TRANSFER, SEE LOC 107 |
| 00165 | 0000 | 00 | 0 | 00166 | HTR | *+1 | TXL TRANSFERED ON XRA HIGH. XRA=77000, DEC=400 |

NO TRANSFER WITH TXH ON XRA EQUAL

| | | | | | | | |
|-------|------|-------|---|-------|-----------|----------|--|
| 00166 | 0774 | 00 | 1 | 00300 | COMIN AXT | 3C,1 | 300 TO XRA |
| 00167 | 3 | 00300 | 1 | 00171 | TXH | *+2,1,3C | ADDER X CARRY AT ER6 SHOULD BLOCK TRANSFER |
| 00170 | -3 | 00000 | 0 | 00172 | TXL | *+2 | SHOULD TRANSFER, SEE LOC 43 |
| 00171 | 0000 | 00 | 0 | 00172 | HTR | *+1 | TXH TRANSFERED ON XRA EQUAL XRA=300, DEC=300 |

IF TXL WITH ZERO TAG AND DECREMENT
WORKED OK AT LOC 43,WE ASSUME
IT WILL WORK HERE.

| | | | | | | | |
|-------|------|-------|---|-------|-----|-----------|---|
| 00172 | 0774 | 00 | 1 | 00000 | AXT | 0,1 | CLEAR XRA |
| 00173 | 3 | 00000 | 1 | 00175 | TXH | *+2,1,0 | SHOULD NOT TRANSFER |
| 00174 | -3 | 00000 | 0 | 00176 | TXL | *+2 | SHOULD TRANSFER, SEE LOC 43 |
| 00175 | 0000 | 00 | 0 | 00176 | HTR | *+1 | TXH TRANSFERED WITH XRA AND DEC BOTH ZERO. |
| 00176 | 0774 | 00 | 1 | 77777 | AXT | 32K,1 | 77777 TO XRA |
| 00177 | 3 | 77777 | 1 | 00201 | TXH | *+2,1,32K | SHOULD NOT TRANSFER |
| 00200 | -3 | 00000 | 0 | 00202 | TXL | *+2 | SHOULD TRANSFER, SEE LOC 43 |
| 00201 | 0000 | 00 | 0 | 00202 | HTR | *+1 | TXH TRANSFERED ON XRA EQUAL XRA=777777, DEC=77777 |
| 00202 | 0774 | 00 | 1 | 22222 | AXT | A2,1 | 22222 TO XRA |
| 00203 | 3 | 22222 | 1 | 00205 | TXH | *+2,1,A2 | SHOULD NOT TRANSFER |
| 00204 | -3 | 00000 | 0 | 00206 | TXL | *+2 | SHOULD TRANSFER, SEE LOC 43 |
| 00205 | 0000 | 00 | 0 | 00206 | HTR | *+1 | TXH TRANSFER ON XRA EQUAL |

XRA=22222, DEC=22222

| | | | | | | | |
|-------|------|-------|---|-------|-----|------------------|--|
| 00206 | 0774 | 00 | 1 | 05555 | AXT | 5M+5C+5D+5,1 | 55555 TO XRA |
| 00207 | 3 | 05555 | 1 | 00211 | TXH | *+2,1,5M+5C+5D+5 | SHOULD NOT TRANSFER |
| 00210 | -3 | 00000 | 0 | 00212 | TXL | *+2 | SHOULD TRANSFER, SEE LOC 43 |
| 00211 | 0000 | 00 | 0 | 00212 | HTR | *+1 | TXH TRANSFER ON XRA EQUAL XRA=55555, DEC=55555 |

NO TRANSFER ON TXH WITH XRA LOW

| | | | | | | | |
|-------|------|-------|---|-------|------------|---------|--|
| 00212 | 0774 | 00 | 1 | 00000 | FOR TO AXT | 0,1 | CLEAR XRA |
| 00213 | 3 | 00001 | 1 | 00215 | TXH | *+2,1,1 | SHOULD NOT TRANSFER |
| 00214 | -3 | 00000 | 0 | 00216 | TXL | *+2 | SHOULD TRANSFER, SEE LOC 43 |
| 00215 | 0000 | 00 | 0 | 00216 | HTR | *+1 | TXH TRANSFER ON XRA LOW XRA=0, DEC=1 |

| | | | | | | | |
|-------|------|-------|---|-------|-----|-----------|--|
| 00216 | 0774 | 00 | 1 | 77776 | AXT | 32K-1,1 | 77776 TO XRA |
| 00217 | 3 | 77777 | 1 | 00221 | TXH | *+2,1,32K | SHOULD NOT TRANSFER |
| 00220 | -3 | 00000 | 0 | 00222 | TXL | *+2 | SHOULD TRANSFER, SEE LOC 43 |
| 00221 | 0000 | 00 | 0 | 00222 | HTR | *+1 | TXH TRANSFER ON XRA LOW XRA=77776, DEC=77777 |

| | | | | | | | |
|-------|------|-------|---|-------|-----|----------------------|--|
| 00222 | 0774 | 00 | 1 | 22223 | AXT | A2+1,1 | 02223 IN XRA |
| 00223 | 3 | 55555 | 1 | 00225 | TXH | *+2,1,50M+5M+5C+5D+5 | SHOULD NOT TRANS ON 4K,8K, OR 32K MACHINES |
| 00224 | -3 | 00000 | 0 | 00226 | TXL | *+2 | SHOULD TRANSFER, SEE LOC 43 |
| 00225 | 0000 | 00 | 0 | 00226 | HTR | *+1 | TXH TRANSFER ON XRA LOW XRA=22223, DEC=55555 |

| | | | | | | | |
|-------|------|-------|---|-------|-----|------------|--|
| 00226 | 0774 | 00 | 1 | 22222 | AXT | A2,1 | 22222 TO XRA |
| 00227 | 3 | 22223 | 1 | 00231 | TXH | *+2,1,A2+1 | SHOULD NOT TRANSFER |
| 00230 | -3 | 00000 | 0 | 00232 | TXL | *+2 | SHOULD TRANSFER, SEE LOC 43 |
| 00231 | 0000 | 00 | 0 | 00232 | HTR | *+1 | TXH TRANSFER ON XRA LOW XRA=22222, DEC=22223 |

CHECK THAT TXL AND TXH DOES NOT
CHANGE XRA.

| | | | | | | | |
|-------|------|-------|---|-------|-----------|----------|---|
| 00232 | 0774 | 00 | 1 | 00000 | CARRY AXT | 0,1 | CLEAR XRA |
| 00233 | 3 | 00300 | 1 | 00236 | TXH | *+3,1,3C | SHOULD NOT TRANSFER |
| 00234 | -3 | 00000 | 1 | 00237 | TXL | *+3,1,0 | SHOULD TRANSFER ONLY IF XRA IS STILL ZERO. |
| 00235 | 0000 | 00 | 0 | 00237 | HTR | *+2 | NO TXL TRANSFER, XRA |

SHOULD HAVE STILL BEEN
ZERO AT LOC 234

| | | | | | | | | |
|-------|------|-------|---|-------|-----|------------|--|----------|
| 00236 | 0000 | 00 | 0 | 00237 | HTR | *+1 | TXH TRANSFER ON XRA=0, DEC=300 | |
| 00237 | 0774 | 00 | 1 | 22222 | AXT | A2,1 | 22222 TO XRA | |
| 00240 | 3 | 22222 | 1 | 00245 | TXH | *+5,1,A2 | SHOULD NOT TRANSFER | |
| 00241 | -3 | 00000 | 1 | 00244 | TXL | *+3,1,0 | SHOULD NOT TRANSFER | |
| 00242 | -3 | 22222 | 1 | 00246 | TXL | *+4,1,A2 | SHOULD TRANSFER, XRA SHOULD STILL HAVE 22222 | |
| 00243 | 0000 | 00 | 0 | 00246 | HTR | *+3 | FAILED TO TRANSFER FROM LOC 242, XRA SHOULD HAVE BEEN=22222 | |
| 00244 | 0000 | 00 | 0 | 00246 | HTR | *+2 | SHOULD NOT HAVER TRANSFER FROM LOC 241 XRA SHOULD HAVE HAD 22222 | |
| 00245 | 0000 | 00 | 0 | 00246 | HTR | *+1 | TXH TRANSFER ON XRA EQUAL, LOC 240 XRA=22222, DEC=22222 | |
| 00246 | 0774 | 00 | 1 | 00300 | AXT | 3C,1 | 300 TO XRA | |
| 00247 | 3 | 00277 | 1 | 00251 | TXH | *+2,1,3C-1 | SHOULD TRANSFER | |
| 00250 | 0000 | 00 | 0 | 00251 | HTR | *+1 | FAILED TO TRANSFER ON XRA HIGH XRA=300, DEC=277 | |
| 00251 | -3 | 00300 | 1 | 00253 | TXL | *+2,1,3C | SHOULD TRANSFER | |
| 00252 | 0000 | 00 | 0 | 00253 | HTR | *+1 | FAILED TO TRANSFER, XRA SHOULD HAVE STILL BEEN 300. | |
| 00253 | -3 | 00277 | 1 | 00255 | TXL | *+2,1,3C-1 | SHOULD NOT TRANSFER | |
| 00254 | -3 | 00000 | 0 | 00256 | TXL | *+2 | OK, | |
| 00255 | 0000 | 00 | 0 | 00256 | HTR | *+1 | SHOULD NOT HAVER TRANSFERRED AT LOC 253 XRA=300, DEC=277 | |
| 00256 | 0774 | 00 | 1 | 00003 | ME | AXT | 3,1 | 3 TO XRA |
| 00257 | -3 | 00004 | 1 | 00261 | TXL | *+2,1,4 | SHOULD TRANSFER | |
| 00260 | 0000 | 00 | 0 | 00261 | HTR | *+1 | FAILED TO TRANSFER ON TXL, XRA=3, DEC=4 | |
| 00261 | 3 | 00002 | 1 | 00263 | TXH | *+2,1,2 | SHOULD TRANSFER | |
| 00262 | 0000 | 00 | 0 | 00263 | HTR | *+1 | FAILED TO TRANSFER ON TXH, DEC=2, XRA SHOULD STILL HAVE 3. | |
| 00263 | -3 | 00004 | 1 | 00265 | TXL | *+2,1,4 | SHOULD TRANSFER | |
| 00264 | 0000 | 00 | 0 | 00265 | HTR | *+1 | FAILED TO TRANSFER ON TXL, DEC=4, XRA SHOULD STILL HAVE 3 | |
| 00265 | 0774 | 00 | 1 | 00300 | AXT | 3C,1 | 300 TO XRA | |

| | | | | | | | |
|-------|------|-------|---|-------|-----|----------------|--|
| 00266 | -3 | 00300 | 1 | 00270 | TXL | *+2,1,3C | SHOULD TRANSFER |
| 00267 | 0000 | 00 | 0 | 00270 | HTR | *+1 | FAILED TO TRANSFER XRA=300, DEC=300 |
| 00270 | 3 | 00277 | 1 | 00272 | TXH | *+2,1,3C-1 | SHOULD TRANSFER |
| 00271 | 0000 | 00 | 0 | 00272 | HTR | *+1 | FAILED TO TRANSFER DEC=2777, XRA SHOULD STILL BE 300 |
| 00272 | -3 | 00276 | 1 | 00274 | TXL | *+2,1,3C-2 | SHOULD NOT TRANSFER |
| 00273 | -3 | 00300 | 1 | 00275 | TXL | *+2,1,3C | SHOULD TRANSFER |
| 00274 | 0000 | 00 | 0 | 00275 | HTR | *+1 | TXL FAILED, XRA BEING CHANGED, XRA SHOULD STILL HAVE 300. XRA SHOULD NOT CYCLE THROUGH THE ADDERS. |
| 00275 | 0774 | 00 | 1 | 77776 | AXT | 32K-1,1 | 77776 TO XRA |
| 00276 | -3 | 75776 | 1 | 00300 | TXL | *+2,1,32K-2M-1 | SHOULD NOT TRANSFER |
| 00277 | -3 | 00000 | 0 | 00301 | TXL | *+2 | OK |
| 00300 | 0000 | 00 | 0 | 00301 | HTR | *+1 | TXL TRANSFER ON XRA HIGH, LOC 306 XRA=77776, DEC =75776 |
| 00301 | 3 | 04000 | 1 | 00303 | TXH | *+2,1,4M | SHOULD TRANSFER |
| 00302 | 0000 | 00 | 0 | 00303 | HTR | *+1 | FAILED TO TRANSFER, XRA SHOULD BE HIGH XRA=77776, DEC=4000 |
| 00303 | 3 | 77775 | 1 | 00305 | TXH | *+2,1,32K-2 | SHOULD TRANSFER |
| 00304 | 0000 | 00 | 0 | 00305 | HTR | *+1 | FAILED TO TRANSFER XRA SHOULD STILL BE HIGH XRA=77776, DEC=77775 |

WE MAY NOW PROCEED TO TNX AND TIX,
IF THERE HAVE BEEN ANY ERRORS UP TO
THIS POINT, THEY SHOULD BE
INVESTIGATED BEFORE WE CONTINUE.

TNX WITH XRA LOW. ADDER X CARRY
ON AT ER6 SHOULD CAUSE TRANSFER.

| | | | | | | | | |
|-------|------|-------|---|-------|------|------------|--|------------|
| 00305 | 0774 | 00 | 1 | 00300 | HOME | AXT | 3C,1 | 300 TO XRA |
| 00306 | -2 | 03000 | 1 | 00310 | TNX | *+2,1,3M | SHOULD TRANSFER | |
| 00307 | 0000 | 00 | 0 | 00310 | HTR | *+1 | FAILED TO TRANSFER ON XRA LOW XRA=300, DEC=3000 | |
| 00310 | -3 | 00300 | 1 | 00312 | TXL | *+2,1,3C | SHOULD TRANSFER | |
| 00311 | 0000 | 00 | 0 | 00312 | HTR | *+1 | FAILED TO TRANSFER ON TXL, XRA SHOULD HAVE STILL BEEN 300. | |
| 00312 | 3 | 00277 | 1 | 00314 | TXH | *+2,1,3C-1 | SHOULD TRANSFER | |
| 00313 | 0000 | 00 | 0 | 00314 | HTR | *+1 | FAILED TO TRANSFER | |

ON TXH, XRA SHOULD
STILL HAVE BEEN 300.

| | | | | | | | |
|-------|------|-------|---|-------|--|-------------|--|
| 00314 | 0774 | 00 | 1 | 00000 | | AXT 0,1 | CLEAR XRA |
| 00315 | -2 | 00001 | 1 | 00317 | | TNX *+2,1,1 | SHOULD TRANSFER |
| 00316 | 0000 | 00 | 0 | 00317 | | HTR *+1 | FAILED TO TRANSFER ON XRA=0, DEC=1 |
| 00317 | -3 | 00000 | 1 | 00321 | | TXL *+2,1,0 | SHOULD TRANSFER |
| 00320 | 0000 | 00 | 0 | 00321 | | HTR *+1 | FAILED TO TRANSFER, XRA SHOULD HAVE BEEN ZERO. |

TNX WITH XRA EQUAL

| | | | | | | | |
|-------|------|-------|---|-------|------|-----------------|---|
| 00321 | 0774 | 00 | 1 | 77777 | MARY | AXT 32K,1 | 77777 TO XRA |
| 00322 | -2 | 77777 | 1 | 00324 | | TNX *+2,1,32K | SHOULD TRANSFER XRA=77777, DEC=77777 |
| 00323 | 0000 | 00 | 0 | 00324 | | HTR *+1 | FAILED TO TRANSFER WITH XRA EQUAL |
| 00324 | -3 | 77777 | 1 | 00326 | | TXL *+2,1,32K | SHOULD TRANSFER |
| 00325 | 0000 | 00 | 0 | 00326 | | HTR *+1 | FAILED TO TRANSFER, XRA SHOULD HAVE STILL HAD 77777 |
| 00326 | 3 | 77776 | 1 | 00330 | | TXH *+2,1,32K-1 | SHOULD TRANSFER |
| 00327 | 0000 | 00 | 0 | 00330 | | HTR *+1 | FAILED TO TRANSFER XRA SHOULD HAVE STILL BEEN 77777 |
| 00330 | 0774 | 00 | 1 | 00000 | | AXT 0,1 | CLEAR XRA |
| 00331 | -2 | 00000 | 1 | 00333 | | TNX *+2,1,0 | SHOULD TRANSFER |
| 00332 | 0000 | 00 | 0 | 00333 | | HTR *+1 | FAILED TO TRANSFER ON XRA=DEC=ZERO |

TIX WITH XRA LOW

| | | | | | | | |
|-------|------|-------|---|-------|------|---------------|---|
| 00333 | 0774 | 00 | 1 | 00000 | HADA | AXT 0,1 | CLEAR XRA |
| 00334 | 2 | 00001 | 1 | 00336 | | TIX *+2,1,1 | SHOULD NOT TRANSFER |
| 00335 | -3 | 00000 | 0 | 00337 | | TXL *+2 | OK |
| 00336 | 0000 | 00 | 0 | 00337 | | HTR *+1 | TRANSFER ON TIX WITH XRA LOW XRA=0, DEC=1 |
| 00337 | -3 | 00000 | 1 | 00341 | | TXL *+2,1,0 | XRA SHOULD STILL BE ZERO |
| 00340 | 0000 | 00 | 0 | 00341 | | HTR *+1 | XRA NOT ZERO |
| 00341 | 0774 | 00 | 1 | 77776 | | AXT 32K-1,1 | 77776 TO XRA |
| 00342 | 2 | 77777 | 1 | 00344 | | TIX *+2,1,32K | SHOULD NOT TRANSFER |
| 00343 | -3 | 00000 | 0 | 00345 | | TXL *+2 | OK |
| 00344 | 0000 | 00 | 0 | 00345 | | HTR *+1 | TRANSFER ON TIX WITH XRA LOW XRA=77776, DEC=77777 |

00345 -3 77776 1 00347 TXL *+2,1,32K-1 SHOULD TRANSFER
00346 0000 00 0 00347 HTR *+1 XRA SHOULD HAVE BEEN
EQUAL, DEC=77776
00347 3 77775 1 00351 TXH *+2,1,32K-2 SHOULD TRANSFER
00350 0000 00 0 00351 HTR *+1 XRA SHOULD BE 77776

TIX WITH XRA EQUAL

00351 0774 00 1 00001 LITIL AXT 1,1 1 TO XRA
00352 2 00001 1 00354 TIX *+2,1,1 SHOULD NOT TRANSFER
00353 -3 00000 0 00355 TXL *+2 OK
00354 0000 00 0 00355 HTR *+1 TIX TRANSFER WITH
XRA EQUAL
XRA=1, DEC=1
00355 -3 00001 1 00357 TXL *+2,1,1 SHOULD TRANSFER
00356 0000 00 0 00357 HTR *+1 XRA SHOULD HAVE
BEEN EQUAL
00357 3 00000 1 00361 TXH *+2,1,0 SHOULD TRANSFER
00360 0000 00 0 00361 HTR *+1 XRA SHOULD BE 1

00361 0774 00 1 00000 AXT 0,1 CLEAR XRA
00362 2 00000 1 00364 TIX *+2,1,0 SHOULD NOT TRANSFER
00363 -3 00000 0 00365 TXL *+2 OK
00364 0000 00 0 00365 HTR *+1 TIX TRANSFER WITH
XRA=DEC=ZERO
00365 -3 00000 1 00367 TXL *+2,1,0 XRA SHOULD BE ZERO
00366 0000 00 0 00367 HTR *+1 XRA NOT STILL ZERO

00367 0774 00 1 00002 AXT 2,1 2 TO XRA
00370 2 00002 1 00372 TIX *+2,1,2 SHOULD NOT TRANSFER
00371 -3 00000 0 00373 TXL *+2 OK
00372 0000 00 0 00373 HTR *+1 TIX TRANSFER ON
XRA EQUAL
XRA=2, DEC=2
00373 -3 00002 1 00375 TXL *+2,1,2 SHOULD TRANSFER
00374 0000 00 0 00375 HTR *+1 XRA SHOULD STILL
HAVE BEEN 2
00375 3 00001 1 00377 TXH *+2,1,1 SHOULD TRANSFER
00376 0000 00 0 00377 HTR *+1 XRA SHOULD STILL
HAVE BEEN 2

00377 0774 00 1 77777 AXT 32K,1 77777 TO XRA
00400 2 77777 1 00402 TIX *+2,1,32K SHOULD NOT TRANSFER
00401 -3 00000 0 00403 TXL *+2 OK
00402 0000 00 0 00403 HTR *+1 TIX TRANSFER ON
XRA EQUAL
XRA=77777, DEC=77777
00403 -3 77777 1 00405 TXL *+2,1,32K SHOULD TRANSFER
00404 0000 00 0 00405 HTR *+1 XRA SHOULD STILL
HAVE BEEN 77777
DEC=77777
00405 3 77776 1 00407 TXH *+2,1,32K-1 SHOULD TRANSFER

00406 0000 00 0 00407 HTR *+1 XRA SHOULD STILL
HAVE BEEN 77777
DEC=77776

WE MAY NOW TEST XRA CYCLE THROUGH
THE ADDERS. TEST WITH AXC. XRA
TO ADDERS AT I3, SYSTEMS 2.08.49.2.
RETURN TO XRA AT I6,
SYSTEMS 2.08.53.1.

00407 -0774 00 1 77500 LAMB AXC 70M+7M+5C,1 00300 TO XRA
00410 -3 00300 1 00412 TXL *+2,1,3C SHOULD TRANSFER
00411 0000 00 0 00412 HTR *+1 XRA FAILED TO
GET 300

00412 3 00277 1 00414 TXH *+2,1,3C-1 SHOULD TRANSFER
00413 0000 00 0 00414 HTR *+1 XRA FAILED TO
GET 300

00414 -0774 00 1 77777 AXC 32K,1 00001 TO XRA
00415 -3 00001 1 00417 TXL *+2,1,1 SHOULD TRANSFER
00416 0000 00 0 00417 HTR *+1 XRA FAILED TO
GET ONE

00417 3 00000 1 00421 TXH *+2,1,0 SHOULD TRANSFER
00420 0000 00 0 00421 HTR *+1 XRA FAILED TO
GET ONE.

00421 -0774 00 1 00000 AXC 0,1 CLEAR XRA
00422 -3 00000 1 00424 TXL *+2,1,0 SHOULD TRANSFER
00423 0000 00 0 00424 HTR *+1 XRA NOT ZERO

TIX TRANSFER AND REDUCE XRA ON
NO ADDER X CARRY. THE COMPLEMENT
DIFFERENCE RETURNS TO XRA AT ER6,
CYCLED THROUGH THE ADDERS AND RETURNS
IN TRUE FORM AT ER11.
SYSTEMS 2.08.53.1.

00424 0774 00 1 00002 WHOSE AXT 2,1 2 TO XRA
00425 2 00001 1 00427 TIX *+2,1,1 SHOULD TRANSFER
00426 0000 00 0 00427 HTR *+1 FAILED TO TRANSFER
ON TIX.
XRA=2, DEC=1

00427 -3 00001 1 00431 TXL *+2,1,1 SHOULD TRANSFER

| | | | | | | | |
|-------|------|-------|---|-------|-----|-------------|--|
| 00430 | 0000 | 00 | 0 | 00431 | HTR | *+1 | FAILED TO DECREMENT ON TIX. XRA SHOULD=1 |
| 00431 | 3 | 00000 | 1 | 00433 | TXH | *+2,1,0 | SHOULD TRANSFER |
| 00432 | 0000 | 00 | 0 | 00433 | HTR | *+1 | FAILED TO DECREMENT ON TIX, XRA SHOULD=1 |
| 00433 | 0774 | 00 | 1 | 77777 | AXT | 32K,1 | 77777 TO XRA |
| 00434 | 2 | 77776 | 1 | 00436 | TIX | *+2,1,32K-1 | SHOULD TRANSFER |
| 00435 | 0000 | 00 | 0 | 00436 | HTR | *+1 | FAILED TO TRANSFER ON TIX XRA=77777, DEC=77776 |
| 00436 | -3 | 00001 | 1 | 00440 | TXL | *+2,1,1 | SHOULD TRANSFER |
| 00437 | 0000 | 00 | 0 | 00440 | HTR | *+1 | FAILED TO DECREMENT ON TIX, XRA SHOULD=1 |
| 00440 | 3 | 00000 | 1 | 00442 | TXH | *+2,1,0 | SHOULD TRANSFER |
| 00441 | 0000 | 00 | 0 | 00442 | HTR | *+1 | FIALED TO DECREMENT ON TIX, XRA SHOULD=1 |

NO TRANSFER AND DECREMENT WITH TNX

| | | | | | | | | |
|-------|------|-------|---|-------|-------|---------|---|----------|
| 00442 | 0774 | 00 | 1 | 00002 | FLEAS | AXT | 2,1 | 2 TO XRA |
| 00443 | -2 | 00001 | 1 | 00445 | TNX | *+2,1,1 | SHOULD NOT TRANSFER | |
| 00444 | -3 | 00000 | 0 | 00446 | TXL | *+2 | OK | |
| 00445 | 0000 | 00 | 0 | 00446 | HTR | *+1 | TRANSFER ON TNX WITH XRA LOW | |
| 00446 | -3 | 00001 | 1 | 00450 | TXL | *+2,1,1 | SHOULD TRANSFER | |
| 00447 | 0000 | 00 | 0 | 00450 | HTR | *+1 | FAILED TO DECREMENT ON TNX. XRA SHOULD=1 | |
| 00450 | 3 | 00000 | 1 | 00452 | TXH | *+2,1,0 | SHOULD TRANSFER | |
| 00451 | 0000 | 00 | 0 | 00452 | HTR | *+1 | FAILED TO DECREMENT ON TNX, XRA SHOULD=1 | |

COUNT-DOWN TEST WITH TIX

| | | | | | | | | |
|-------|------|-------|---|-------|-----|---------|--|--------------|
| 00452 | 0774 | 00 | 1 | 77777 | WAS | AXT | 32K,1 | 77777 TO XRA |
| 00453 | 2 | 00001 | 1 | 00455 | TIX | *+2,1,1 | SHOULD TRANSFER | |
| 00454 | 0000 | 00 | 0 | 00462 | HTR | *+6 | FIALED TO TRANSFER ON TIX. XRA SHOULD ALWAYS BE HIGH | |
| 00455 | 3 | 00002 | 1 | 00453 | TXH | *-2,1,2 | CONTINUE COUNT-DOWN UNTIL XRA=2 | |
| 00456 | -3 | 00002 | 1 | 00460 | TXL | *+2,1,2 | XRA SHOULS NOW=2 | |
| 00457 | 0000 | 00 | 0 | 00462 | HTR | *+3 | FAILED, XRA SHOULD COUNT DOWN TO 2 ON TIX. | |
| 00460 | 3 | 00001 | 1 | 00462 | TXH | *+2,1,1 | SHOULD TRANSFER | |

00461 0000 00 0 00462 HTR *+1 FAILED, XRA SHOULD
BE=2.

COUNT-DOWN WITH TNX

00462 0774 00 1 77777 WHITE AXT 32K,1
00463 -3 00002 1 00470 TXL *+5,1,2 TRANSFER WHEN XRA=2
00464 -2 00001 1 00467 TNX *+3,1,1 SHOULD NOT TRANSFER
00465 3 00001 1 00463 TXH *-2,1,1 SHOULD ALWAYS TRANSFER

00466 0000 00 0 00472 HTR *+4 FAILED TO TXH, XRA
SHOULD COUNT DOWN TO
2 AND SKIP OUT
AT LOC 463

00467 0000 00 0 00472 HTR *+3 TRANSFERRED HERE
FROM 464, XRA SHOULD
COUNT DOWN TO 2 ONLY,
SHOULD NEVER TRANSFER
AT LOC 464

00470 3 00001 1 00472 TXH *+2,1,1 XRA SHOULD=2
00471 0000 00 0 00472 HTR *+1 FAILED, XRA SHOULD
COUNT DOWN TO 2
AND TRANSFER ON
XRA EQUAL AT LOC 463

TEXT TXI FOR UNCONDITIONAL TRANSFER
AND INCREMENTING. XR CYCLES THROUGH
ADDERS AT ER3 TO OBTAIN COMPLEMENT.
ADDITION TAKE PLACE AT ER7. THE SUM
IS SAMPLED BACK TO XR AT ER11.
THE SYSTEMS INVOLVED ARE
XR TO ADD 3-17, ER3D9 - 2.08.49
ADD 3-17 TO XR ER5D1
AND ER11D1 2.08.53
SR 1-35 TO ADD ER7D5 2.08.48

00472 0774 00 1 00000 AS AXT 0,1 CLEAR XRA
00473 1 00001 1 00475 TXI *+2,1,1 SHOULD TRANSFER
00474 0000 00 0 00475 HTR *+1 FAILED TO TRANSFER
ON TXI
00475 -3 00001 1 00477 TXL *+2,1,1 XRA SHOULD=1
00476 0000 00 0 00477 HTR *+1 FAILED TO INCREMENT
WITH TXI,
XRA SHOULD=1
00477 3 00000 1 00501 TXH *+2,1,0 SHOULD TRANSFER
00500 0000 00 0 00501 HTR *+1 FAILED TO INCREMENT
ON TXI.
XRA SHOULD=1

| | | | | | | | |
|-------|------|-------|---|-------|-----|-------------|---|
| 00501 | 0774 | 00 | 1 | 77776 | AXT | 32K-1,1 | 77776 TO XRA |
| 00502 | 1 | 00001 | 1 | 00504 | TXI | *+2,1,1 | SHOULD TRANSFER |
| 00503 | 0000 | 00 | 0 | 00504 | HTR | *+1 | FAILED TO TRANSFER ON TXI. |
| 00504 | 3 | 77776 | 1 | 00506 | TXH | *+2,1,32K-1 | SHOULD TRANSFER |
| 00505 | 0000 | 00 | 0 | 00506 | HTR | *+1 | FAILED TO INCREMENT ON TXI. XRA SHOULD=77777 DEC=77776 |
| 00506 | 0774 | 00 | 1 | 00001 | AXT | 1,1 | 1 TO XRA |
| 00507 | 1 | 77776 | 1 | 00511 | TXI | *+2,1,32K-1 | SHOULD TRANSFER |
| 00510 | 0000 | 00 | 0 | 00511 | HTR | *+1 | FAILED TO TRANSFER ON TXI |
| 00511 | 3 | 77776 | 1 | 00513 | TXH | *+2,1,32K-1 | SHOULD TRANSFER |
| 00512 | 0000 | 00 | 0 | 00513 | HTR | *+1 | FAILED TO INCREMENT ON TXI. XRA=77777, DEC=77776 |
| 00513 | 0774 | 00 | 1 | 77777 | AXT | 32K,1 | 777777 TO XRA |
| 00514 | 1 | 77777 | 1 | 00516 | TXI | *+2,1,32K | SHOULD TRANSFER |
| 00515 | 0000 | 00 | 0 | 00516 | HTR | *+1 | FAILED TO TRANSFER ON TXI |
| 00516 | 3 | 77775 | 1 | 00520 | TXH | *+2,1,32K-2 | SHOULD TRANSFER |
| 00517 | 0000 | 00 | 0 | 00520 | HTR | *+1 | FAILED TO INCREMENT ON TXI, XRA SHOULD HAVE 77776, DEC=77775 |
| 00520 | -3 | 77776 | 1 | 00522 | TXL | *+2,1,32K-1 | SHOULD TRANSFER |
| 00521 | 0000 | 00 | 0 | 00522 | HTR | *+1 | FAILED TO INCREMENT ON TXI, XRA SHOULD HAVE 77776, DEC=77776. |
| 00522 | 0774 | 00 | 1 | 00001 | AXT | 1,1 | 1 TO XRA |
| 00523 | 1 | 77777 | 1 | 00525 | TXI | *+2,1,32K | SHOULD TRANSFER |
| 00524 | 0000 | 00 | 0 | 00525 | HTR | *+1 | FAILED TO TRANSFER ON TXI. |
| 00525 | -3 | 00000 | 1 | 00527 | TXL | *+2,1,0 | SHOULD TRANSFER |
| 00526 | 0000 | 00 | 0 | 00527 | HTR | *+1 | FAILED TO INCREMENT ON TXL. XRA SHOULD HAVE ZERO. |

COUNT-DOWN TEST WITH TXI, TIX

| | | | | | | | | |
|-------|------|-------|---|-------|------|-----|---------|--------------------|
| 00527 | 0774 | 00 | 1 | 77777 | SNOW | AXT | 32K,1 | 77777 TO XRA |
| 00530 | 2 | 00002 | 1 | 00533 | | TIX | *+3,1,2 | COUNT DOWN 2 |
| 00531 | -3 | 00002 | 1 | 00534 | | TXL | *+3,1,2 | XRA SHOULD BE 2 |
| 00532 | 0000 | 00 | 0 | 00536 | | HTR | *+4 | FAILED TO TRANSFER |

ON TIX WITH XRA HIGH

| | | | | | | |
|-------|------|-------|---|-------|-------------|---|
| 00533 | 1 | 00001 | 1 | 00530 | TXI *-3,1,1 | TRANSFER AND ADD 1 UNTIL XRA=2 |
| 00534 | 3 | 00001 | 1 | 00536 | TXH *+2,1,1 | SHOULD TRANSFER |
| 00535 | 0000 | 00 | 0 | 00536 | HTR *+1 | FAILED TO COUNT CORRECTLY, XRA SHOULD HAVE 2 |
| 00536 | 0774 | 00 | 1 | 77777 | AXT 32K,1 | 77777 TO XRA |
| 00537 | -2 | 00002 | 1 | 00542 | TNX *+3,1,2 | SHOULD COUNT-DOWN TO 2 AND TRANSFER |
| 00540 | 1 | 00001 | 1 | 00537 | TXI *-1,1,1 | SHOUDL TRANSFER AND ADD 1 |
| 00541 | 0000 | 00 | 0 | 00546 | HTR *+5 | FAILED TO TRANSFER TXI |
| 00542 | 3 | 00001 | 1 | 00544 | TXH *+2,1,1 | XRA SHOULD BE=2 |
| 00543 | 0000 | 00 | 0 | 00546 | HTR *+3 | FAILED TO COUNT CORRECTLY |
| 00544 | -3 | 00002 | 1 | 00546 | TXL *+2,1,2 | SHOULD TRANSFER |
| 00545 | 0000 | 00 | 0 | 00546 | HTR *+1 | FAILED TO COUNT CORRECTLY, XRA SHOULD HAVE 2. |

TSX, THE INSTRUCTION COUNTER IS
ROUTED THROUGH THE ADDRESS SWITCHES
ON SYSTEMS 3.40, AND TO THE STORAGE
BUSSES, SYSTEMS 2.08.28. THE ADDRESS
IS CYCLED THROUGH THE ADDERS TO
OBTAIN THE COMPLEMENT

| | | | | | | |
|-------|------|-------|---|-------|----------------------|---|
| 00546 | 0074 | 00 | 1 | 00550 | HERE TSX *+2,1 | 77232 TO XRA |
| 00547 | 0000 | 00 | 0 | 00550 | HTR *+1 | FAILED TO TRANSFER ON TSX |
| 00550 | -3 | 77232 | 1 | 00552 | TXL *+2,1,32K-HERE+1 | DEC=77232 |
| 00551 | 0000 | 00 | 0 | 00552 | HTR *+1 | FAILED TO SET CORRECT ADDRESS IN XRA ON TSX XRA SHOULD HAVE 77232 |
| 00552 | 3 | 77231 | 1 | 00554 | TXH *+2,1,32K-HERE | DEC=77231 |
| 00553 | 0000 | 00 | 0 | 00554 | HTR *+1 | FAILED TO SET CORRECT ADDRESS WITH TSX. XRA SHOUDL HAVE 77232 |

00554 0074 00 1 00556 WE TSX *+2,1 77224 TO XRA
00555 0000 00 0 00556 HTR *+1 FAILED TO TRANSFER
ON TSX

00556 1 00554 1 00560 TXI *+2,1,WE XRA SHOULD ADD
TO ZERO
00557 0000 00 0 00560 HTR *+1 FAILED TO TRANSFER
ON TXI

00560 -3 00000 1 00562 TXL *+2,1,0 SHOULD TRANSFER
00561 0000 00 0 00562 HTR *+1 FAILED TO GET
CORRECT ADDRESS ON
TSX, XRA SHOULD
HAVE GONE TO ZERO
AT WE+2.

* TEST LXA-LOAD INDEX FROM ADDRESS

* PREVIOUS INSTRUCTIONS AXT, TXH, TXL MUST
* HAVE BEEN TESTED AND WORKING CORRECTLY.

00562 0774 00 1 00000 AXT 0,1 CLEAR XRA
00563 -3 00000 1 00565 TXL *+2,1,0 SHOULD TRANSFER
00564 0000 00 0 00565 HTR *+1 DID NOT CLEAR XRA
00565 0534 00 1 01410 LXA KK+7,1 07777 TO XRA
00566 3 07776 1 00570 TXH *+2,1,7M+7C+7D+6 SHOUDL TRANSFER
00567 0000 00 0 00570 HTR *+1 DID NOT TRANSFER ON TXH
XRA SHOULD BE 07777
DEC=07776
IF XRA=00000, DID NOT GET
ADDRESS PAST THE ADDERS
2.08.53.1

00570 0774 00 1 07777 AXT 7M+7C+7D+7,107777 TO XRA
00571 0534 00 1 01400 LXA AZE,1 00000 TO XRA
00572 -3 00000 1 00574 TXL *+2,1,0 SHOULD TRANSFER
00573 0000 00 0 00574 HTR *+1 DID NOT TRANSFER ON TXL
XRA SHOULD BE 00000
DEC=00000
IF XRA=07777, DID NOT GET
ADDRESS PAST THE ADDERS
2.08.53.1

00574 0534 00 1 01407 LXA KK+6,1 06666 TO XRA
00575 3 06665 1 00577 TXH *+2,1,6M+6C+6D+5 SHOULD TRANSFER
00576 0000 00 0 00577 HTR *+1 DID NOT TRANSFER ON TXH
XRA=06666 DEC=06665

00577 -3 06666 1 00601 TXL *+2,1,6M+6C+6D+6,1 SHOUDL TRANSFER
00600 0000 00 0 00601 HTR *+1 DID NOT TRANSFER ON TXL
XRA=DEC=06666

| | | | | | | | | |
|-------|------|-------|---|-------|-----|--------------------|--|--------|
| 00601 | 0534 | 00 | 1 | 01406 | LXA | KK+5,1 | 05555 | TO XRA |
| 00602 | 3 | 05554 | 1 | 00604 | TXH | *+2,1,5M+5C+5D+4 | SHOULD TRANSFER | |
| 00603 | 0000 | 00 | 0 | 00604 | HTR | *+1 | DID NOT TRANSFER ON TXH XRA=05555 DEC=05554 | |
| 00604 | -3 | 05555 | 1 | 00606 | TXL | *+2,1,5M+5C+5D+5,1 | SHOULD TRANSFER | |
| 00605 | 0000 | 00 | 0 | 00606 | HTR | *+1 | DID NOT TRANSFER ON TXL XRA=DEC=05555 | |
| 00606 | 0534 | 00 | 1 | 01405 | LXA | KK+4,1 | 04444 | TO XRA |
| 00607 | 3 | 04443 | 1 | 00611 | TXH | *+2,1,4M+4C+4D+3 | SHOULD TRANSFER | |
| 00610 | 0000 | 00 | 0 | 00611 | HTR | *+1 | DID NOT TRANSFER ON TXH XRA=04444 DEC=04443 | |
| 00611 | -3 | 04444 | 1 | 00613 | TXL | *+2,1,4M+4C+4D+4 | SHOULD TRANSFER | |
| 00612 | 0000 | 00 | 0 | 00613 | HTR | *+1 | DID NOTR TRANSFER ON TXL XRA=DEC=04444 | |
| 00613 | 0534 | 00 | 1 | 01404 | LXA | KK+3,1 | 03333 | TO XRA |
| 00614 | 3 | 03332 | 1 | 00616 | TXH | *+2,1,3M+3C+3D+2 | SHOULD TRANSFER | |
| 00615 | 0000 | 00 | 0 | 00616 | HTR | *+1 | DID NOT TRANSFER ON TXH XRA=03333 DEC=03332 | |
| 00616 | -3 | 03333 | 1 | 00620 | TXL | *+2,1,3M+3C+3D+3 | SHOULD TRANSFER | |
| 00617 | 0000 | 00 | 0 | 00620 | HTR | *+1 | DID NOT TRANSFER ON TXL XRA=DEC=03333 | |
| 00620 | 0534 | 00 | 1 | 01403 | LXA | KK+2,1 | 02222 | TO XRA |
| 00621 | 3 | 02221 | 1 | 00623 | TXH | *+2,1,2M+2C+2D+1 | SHOULD TRANSFER | |
| 00622 | 0000 | 00 | 0 | 00623 | HTR | *+1 | DID NOT TRANSFER ON TXH XRA=02222 DEC=02221 | |
| 00623 | -3 | 02222 | 1 | 00625 | TXL | *+2,1,2M+2C+2D+2 | SHOULD TRANSFER | |
| 00624 | 0000 | 00 | 0 | 00625 | HTR | *+1 | DID NOT TRANSFER ON TXL XRA=DEC=02222 | |
| 00625 | 0534 | 00 | 1 | 01402 | LXA | KK+1,1 | 01111 | TO XRA |
| 00626 | 3 | 01110 | 1 | 00630 | TXH | *+2,1,M+C+D | SHOULD TRANSFER | |
| 00627 | 0000 | 00 | 0 | 00630 | HTR | *+1 | DID NOT TRANSFER ON TXH XRA=01111 DEC=01110 | |
| 00630 | -3 | 01111 | 1 | 00632 | TXL | *+2,1,M+C+D+1 | SHOULD TRANSFER | |
| 00631 | 0000 | 00 | 0 | 00632 | HTR | *+1 | DID NOT TRANSFER ON TXL XRA=DEC=01111 | |

* TEST LXA USING A ZERO TAG

| | | | | | | | | |
|-------|------|-------|---|-------|-----|------------------|---|-----------------|
| 00632 | 0774 | 00 | 1 | 07777 | AXT | 7M+7C+7D+7,1 | 07777 | TO XRA |
| 00633 | 0534 | 00 | 0 | 01400 | LXA | AZE,0 | 00000 | WITH A ZERO TAG |
| 00634 | 3 | 07776 | 1 | 00636 | TXH | *+2,1,7M+7C+7D+6 | SHOULD TRANSFER | |
| 00635 | 0000 | 00 | 0 | 00636 | HTR | *+1 | DID NOT TRANSFER ON TXH XRA SHOULD BE 07777 DEC=07776 IF XRA=00000, THE ADDERS TO XRA LINE IS UP ON PAGE 2.12.03 | |

* TEST LAC-LOAD COMPLEMENT OF ADDRESS IN INDEX

* ASSUME DIRECT ROUTING TO INDEX FROM STORAGE IS OK
* SINCE LXA HAS BEEN TESTED.

| | | | | | | |
|-------|------|-------|---|-------|-----------------------|---|
| 00636 | 0774 | 00 | 1 | 00000 | AXT 0,1 | CLEAR XRA |
| 00637 | 0535 | 00 | 1 | 01374 | LAC A75,1 | 2-S COMP. OF 75555 TO XRA |
| 00640 | -3 | 02223 | 1 | 00642 | TXL *+2,1,2M+2C+2D+3 | SHOULD TRANSFER |
| 00641 | 0000 | 00 | 0 | 00642 | HTR *+1 | DID NOT TRANSFER ON TXL XRA SHOULD BE 02223 DEC=02223 IF XRA=75555,DID NOT CYCLE THROUGH THE ADDERS FOR THE 2-S COMP. 2.08.49.2 OR 2.08.53.1 |
| 00642 | 3 | 02222 | 1 | 00644 | TXH *+2,1,2M+2C+2D+2 | SHOULD TRANSFER |
| 00643 | 0000 | 00 | 0 | 00644 | HTR *+1 | DID NOT TRANSFER ON TXH XRA SHOULD BE 02223 DEC=02222 IF XRA=02222,DID NOT GET A CARRY TO ADDER 17 AT I3-D7 2.08.05.2 |
| 00644 | 0535 | 00 | 1 | 01411 | LAC AL7,1 | 2-S COMP. 77777 TO XRA |
| 00645 | 3 | 00000 | 1 | 00647 | TXH *+2,1,0 | SHOULD TRANSFER |
| 00646 | 0000 | 00 | 0 | 00647 | HTR *+1 | DID NOT TRANSFER ON TXH XRA SHOULD HAVE 00001 DEC=00000 NO CARRY TO ADDER 17 2.08.50.2 |
| 00647 | -3 | 00001 | 1 | 00651 | TXL *+2,1,1 | SHOULD TRANSFER |
| 00650 | 0000 | 00 | 0 | 00651 | HTR *+1 | DID NOT TRANSFER ON TXL XRA SHOULD BE 00001 DEC=00001 IF XRA IS ALL 1-S, DID NOT CYCLE THROUGH ADDERS FOR 2-S COMPLEMENT 2.08.49.2 OR 2.08.53.1 |
| 00651 | 0535 | 00 | 1 | 01375 | LAC A76,1 | 2-S COMP. OF 76666 TOXRA |
| 00652 | 3 | 01111 | 1 | 00654 | TXH *+2,1,M+C+D+1 | SHOULD TRANSFER |
| 00653 | 0000 | 00 | 0 | 00654 | HTR *+1 | DID NOT TRANSFER ON TXH XRA SHOULD BE 01112 DEC=01111 |
| 00654 | -3 | 01112 | 1 | 00656 | TXL *+2,1,M+C+D+2 | SHOULD TRANSFER |
| 00655 | 0000 | 00 | 0 | 00656 | HTR *+1 | DID NOT TRANSFER ON TXL XRA SHOULD BE 01112 DEC=01112 |
| 00656 | 0535 | 00 | 1 | 01373 | LAC A74,1 | 2-S COMP. OF 74444 TO XRA |
| 00657 | 3 | 03000 | 1 | 00661 | TXH *+2,1,3M,3C+3D,+3 | SHOULD TRANSFER |
| 00660 | 0000 | 00 | 0 | 00661 | HTR *+1 | DID NOT TRANSFER ON TXH XRA SHOULD BE 03334 DEC=03333 |

| | | | | | | | |
|-------|------|-------|---|-------|-----|------------------|---|
| 00661 | -3 | 03334 | 1 | 00663 | TXL | *+2,1,3M+3C+3D+4 | SHOULD TRANSFER |
| 00662 | 0000 | 00 | 0 | 00663 | HTR | *+1 | DID NOT TRANSFER ON TXL XRA SHOULD BE 03334 DEC=03334 |
| 00663 | 0535 | 00 | 1 | 01372 | LAC | A73,1 | 2-S COMP. OF 73333 TO XRA |
| 00664 | 3 | 04444 | 1 | 00666 | TXH | *+2,1,4M+4C+4D+4 | SHOULD TRANSFER |
| 00665 | 0000 | 00 | 0 | 00666 | HTR | *+1 | DID NOT TRANSFER ON TXH XRA SHOULD BE 04445 DEC=04444 |
| 00666 | -3 | 04445 | 1 | 00670 | TXL | *+2,1,4M+4C+4D+5 | SHOULD TRANSFER |
| 00667 | 0000 | 00 | 0 | 00670 | HTR | *+1 | DID NOT TRANSFER ON TXL XRA SHOULD BE 04445 DEC=04445 |
| 00670 | 0535 | 00 | 1 | 01371 | LAC | A72,1 | 2-S COMP. OF 72222 TO XRA |
| 00671 | 3 | 05555 | 1 | 00673 | TXH | *+2,1,5M+5C+5D+5 | SHOULD TRANSFER |
| 00672 | 0000 | 00 | 0 | 00673 | HTR | *+1 | DID NOT TRANSFER ON TXH XRA SHOULD BE 05556 DEC=05555 |
| 00673 | -3 | 05556 | 1 | 00675 | TXL | *+2,1,5M+5C+5D+6 | SHOULD TRANSFER |
| 00674 | 0000 | 00 | 0 | 00675 | HTR | *+1 | DID NOT TRANSFER ON TXL XRA SHOULD BE 05556 DEC=05556 |
| 00675 | 0535 | 00 | 1 | 01370 | LAC | A71,1 | 2-S COMP. OF 71111 TO XRA |
| 00676 | 3 | 06666 | 1 | 00700 | TXH | *+2,1,6M+6D+6C+6 | SHOULD TRANSFER |
| 00677 | 0000 | 00 | 0 | 00700 | HTR | *+1 | DID NOT TRANSFER ON TXH XRA SHOULD BE 06667 DEC=06666 |
| 00700 | -3 | 06667 | 1 | 00702 | TXL | *+2,1,6M+6D+6C+7 | SHOULD TRANSFER |
| 00701 | 0000 | 00 | 0 | 00702 | HTR | *+1 | DID NOT TRANSFER ON TXL XRA SHOULD BE 06667 DEC=06667 |
| 00702 | 0535 | 00 | 1 | 01376 | LAC | A701,1 | 2-S COMP. OF 70001 TO XRA |
| 00703 | 3 | 07776 | 1 | 00705 | TXH | *+2,1,7M+7C+7D+6 | SHOULD TRANSFER |
| 00704 | 0000 | 00 | 0 | 00705 | HTR | *+1 | DID NOT TRANSFER ON TXH XRA SHOULD BE 07777 DEC=07776 |
| 00705 | -3 | 07777 | 1 | 00707 | TXL | *+2,1,7M+7C+7D+7 | SHOULD TRANSFER |
| 00706 | 0000 | 00 | 0 | 00707 | HTR | *+1 | DID NOT TRANSFER ON TXL XRA SHOULD BE 07777 DEC=07777 |

* TRY RIPPLING A 2-S COMPLEMENT CARRY

| | | | | | | | |
|-------|------|-------|---|-------|-----|------------------|---|
| 00707 | 0535 | 00 | 1 | 01377 | LAC | A710,1 | 2-S COMP. OF 71000 TO XRA |
| 00710 | 3 | 06777 | 1 | 00712 | TXH | *+2,1,6M+7C+7D+7 | SHOULD TRANSFER |
| 00711 | 0000 | 00 | 0 | 00712 | HTR | *+1 | DID NOT TRANSFER ON TXH XRA SHOULD BE 07000 DEC=06777 |

00712 -3 07000 1 00714 TXL *+2,1,7M SHOULD TRANSFER
00713 0000 00 0 00714 HTR *+1 DID NOT TRANSFER ON TXL
XRA SHOULD BE 07000
DEC=07000

* CHECK THAT ZERO TAG DOES NOT ALTER XRA CONTENTS

00714 0774 00 1 00000 AXT 0,1 CLEAR XRA
00715 0535 00 0 01411 LAC AL7,0 77777 TO IMAGINARY INDEX
00716 -3 00000 1 00720 TXL *+2,1,0 SHOULD TRANSFER
00717 0000 00 0 00720 HTR *+1 DID NOT TRANSFER ON TXL
XRA SHOULD STILL BE 00000
DEC=00000
IF XRA=00001, SR 20 IS
UP-2.12.02

* TEST SXA-STORE INDEX IN ADDRESS

00720 0774 00 1 07777 AXT 7M+7C+7D+7,1 07777 TO XRA
00721 0634 00 1 01401 SXA KK,1 07777 TO ADDRESS OF
TEMPORARY STORAGE
00722 0774 00 1 00000 AXT 0,1 CLEAR XRA
00723 0534 00 1 01401 LXA KK,1 BRING BACK TEMPORARY STG.
TO SEE IF WAS STORED OK
00724 3 07776 1 00726 TXH *+2,1,7M+7C+7D+6 SHOULD TRANSFER
00725 0000 00 0 00726 HTR *+1 XRA SHOULD BE 07777
DEC=07776
IF XRA=00000, ADDRESS WAS
NEVER STORED IN KK
OR XRA WAS NOT COMPLEMENTED
TO GET THE TRUE INDEX TO
THE ADDRESS IN STG.
PAGE 2.08.53.1

00726 -3 07777 1 00730 TXL *+2,1,7M+7C+7D+7 SHOULD TRANSFER
00727 0000 00 0 00730 HTR *+1 DID NOT TRANSFER ON TXL
XRA=DEC=07777

00730 0774 00 1 00000 AXT 0,1 CLEAR XRA
00731 0634 00 1 01401 SXA KK,1 00000 IN TEMP. STG.
00732 0774 00 1 77777 AXT 70M+7M+7C+7D+7,1 ALL 1-S TO XRA
00733 0534 00 1 01401 LXA KK,1 BRING BACK TEMPORARY STG.
TO SEE IF IT WAS STORED OK
00734 -3 00000 1 00736 TXL *+2,1,0 SHOULD TRANSFER
00735 0000 00 0 00736 HTR *+1 DID NOT TRANSFER ON TXL
XRA SHOULD BE 00000
DEC=00000

* CHECK THAT INDEX REMAINS UNCHANGED AFTER STORING

00736 0774 00 1 07777 AXT 7M+7C+7D+7,1 07777 TO XRA
00737 0634 00 1 01401 SXA KK,1 07777 TO TEMP. STG.
00740 3 07776 1 00742 TXH *+2,1,7M+7C+7D+6 SHOULD TRANSFER
00741 0000 00 0 00742 HTR *+1 DID NOT TRANSFER ON TXH
XRA SHOULD STILL BE 07777

00742 -3 07777 1 00744 TXL *+2,1,7M+7C+7D+7 SHOULD TRANSFER
00743 0000 00 0 00744 HTR *+1 DID NOT TRANSFER ON TXL
XRA SHOULD STILL BE 07777
DEC=07777

* TEST SXA WITH A ZERO TAG

00744 0774 00 1 05555 AXT 5M+5C+5D+5,1 05555 TO XRA
00745 0634 00 0 01401 SXA KK,0 IMAGINARY INDEX TO KK
00746 0534 00 1 01401 LX A KK,1 SHOULD BE 00000
00747 -3 00000 1 00751 TXL *+2,1,0 SHOULD TRANSFER
00750 0000 00 0 00751 HTR *+1 DID NOT TRANSFER ON TXL
XRA SHOULD BE 00000
DEC=00000

* TEST LX D-LOAD INDEX FROM DECREMENT

00751 0774 00 1 00000 AXT 0,1 CLEAR XRA
00752 -0534 00 1 01361 LX D 7,1 07777 TO XRA
00753 3 07776 1 00755 TXH *+2,1,7M+7C+7D+6 SHOULD TRANSFER
00754 0000 00 0 00755 HTR *+1 DID NOT TRANSFER ON TXH
XRA SHOULD BE 07777
DEC=07776
IF XRA=00000, DID NOT GET
PAST THE ADDERS AT E11-D1
PAGE 2.08.53.1
IF XRA=05555, BROUGHT THE
ADR. TO THE INDEX AT E9-D3
PAGE 2.08.05.2
IF XRA=00001, GOT 2-S COMP.
AT I3-D7 OF NEXT I CYCLE
PAGE 2.08.49.2
00755 -3 07777 1 00757 TXL *+2,1,7M+7C+7D+7 SHOULD TRANSFER
00756 0000 00 0 00757 HTR *+1 DID NOT TRANSFER ON TXL
XRA SHOULD BE 07777
DEC=07777
00757 0774 00 1 07777 AXT 7M+7C+7D+7,1 07777 TO XRA
00760 -0534 00 1 01362 LX D 0,1 00000 TO XRA
00761 -3 00000 1 00763 TXL *+2,1,0 SHOULD TRANSFER
00762 0000 00 0 00763 HTR *+1 DID NOT TRANSFER ON TXL
XRA SHOULD BE 00000
DEC=00000
IF XRA=07777, DID NOT GET PA
THE ADDERS AT E11-D1
PAGE 2.08.53.1
IF XRA=05555, BROUGHT THE
ADR. TO THE INDEX AT E9-D3
PAGE 2.08.05.2

* CHECK LX D WITH A ZERO TAG

00763 0774 00 1 07777 AXT 7M+7C+7D+7,1 07777 TO XRA

00764 -0534 00 0 01362 LXD D0,0 LOAD IMAGINARY INDEX
00765 3 07776 1 00767 TXH *+2,1,7M+7C+7D+6 SHOULD TRANSFER
00766 0000 00 0 00767 HTR *+1 DID NOT TRANSFER ON TXH
 XRA SHOULD STILL BE 07777
 DEC=07776
 IF XRA=00000, ADDERS TO XRA
 IS UP ON PAGE 2.12.03

*CHECK THAT THE ADDRESS OF STORAGE 21-35 DOES NOT CHANGE WITH A LXD INSTR

00767 -0534 00 1 01361 LXD D7,1 LOAD INDEX USING LXD
00770 0534 00 1 01361 LXA D7,1 05555 TO XRA
00771 3 05554 1 00773 TXH *+2,1,5M+5C+5D+4 SHOULD TRANSFER
00772 0000 00 0 00773 HTR *+1 DID NOT TRANSFER ON TXH
 POSITIONS 21-35 DID NOT
 REMAIN UNCHANGED USING A
 LXD INSTRUCTION
 XRA SHOULD BE 05555
 DEC=05554

00773 -3 05555 1 00775 TXL *+2,1,5M+5C+5D+5 SHOULD TRANSFER
00774 0000 00 0 00775 HTR *+1 WORD ADDRESS CHANGED
 XRA SHOULD BE 05555
 DEC=05555

* TEST SXD-STORE INDEX IN DECREMENT

00775 0774 00 1 07777 AXT 7M+7C+7D+7,1 07777 TO XRA
00776 -0634 00 1 01401 SXD KK,1 STORE 07777 IN TEMP. STG.
00777 -0534 00 1 01401 LXD KK,1 BRING TEMPORARY STORAGE
 BACK TO XRA

01000 3 07776 1 01002 TXH *+2,1,7M+7C+7D+6 SHOULD TRANSFER
01001 0000 00 0 01002 HTR *+1 DID NOT TRANSFER ON TXH
 XRA SHOULD BE 07777
 DEC=07776
 IF XRA=00000, DID NOT CYCLE
 THROUGH THE ADDERS TO COMP.
 XRA AT E4-D1, PP. 2.08.53.1

01002 -3 07777 1 01004 TXL *+2,1,7M+7C+7D+7 SHOULD TRANSFER
01003 0000 00 0 01004 HTR *+1 DID NOT TRANSFER ON TXL
 XRA SHOULD BE 07777
 DEC=07777

01004 0774 00 1 00000 AXT 0,1 00000 TO XRA
01005 -0634 00 1 01401 SXD KK,1 CLEAR DEC OF TEMP. STG.
01006 -0534 00 1 01401 LXD KK,1 BRING DEC BACK TO XRA
01007 -3 00000 1 01011 TXL *+2,1,0 SHOULD TRANSFER
01010 0000 00 0 01011 HTR *+1 DID NOT TRANSFER ON TXL
 XRA SHOULD BE 00000
 DEC=00000

* CHECK THAT THE ADDRESS OF STORAGE 21-35 DID NOT
* CHANGE USING AN SXD INSTRUCTION

01011 0774 00 1 05555 AXT 5M+5C+5D+5,1 05555 TO XRA

| | | | | | | | |
|-------|-------|-------|---|-------|-----|------------------|--|
| 01012 | 0634 | 00 | 1 | 01401 | SXA | KK,1 | 05555 TO ADR. OF TEMP. STG. |
| 01013 | 0774 | 00 | 1 | 07777 | AXT | 7M+7C+7D+7,1 | 07777 TO XRA |
| 01014 | -0634 | 00 | 1 | 01401 | SXD | KK,1 | STORE 07777 IN DEC OF STG. |
| 01015 | 0534 | 00 | 1 | 01401 | LXA | KK,1 | BRING IN ADR. TO XRA AND SEE IF IT IS STILL 05555 |
| 01016 | 3 | 05554 | 1 | 01020 | TXH | *+2,1,5M+5C+5D+4 | SHOULD TRANSFER |
| 01017 | 0000 | 00 | 0 | 01020 | HTR | *+1 | XRA SHOULD BE 05555 DEC=05554 |
| 01020 | -3 | 05555 | 1 | 01022 | TXL | *+2,1,5M+5C+5D+5 | SHOULD TRANSFER |
| 01021 | 0000 | 00 | 0 | 00000 | HTR | | DID NOT TRANSFER ON TXL XRA SHOULD BE 05555 DEC=05555 IF XRA=0777, AS TO SB 21-35 IS UP, PP. 2.08.28 |

* TEST SXD WITH ZERO TAG

| | | | | | | | |
|-------|-------|-------|---|-------|-----|--------------|--|
| 01022 | 0774 | 00 | 1 | 00000 | AXT | 0,1 | CLEAR XRA |
| 01023 | -0634 | 00 | 1 | 01401 | SXD | KK,1 | CLEAR DEC. OF TEMP. STG. |
| 01024 | 0774 | 00 | 1 | 07777 | AXT | 7M+7C+7D+7,1 | 07777 TO XRA |
| 01025 | -0634 | 00 | 0 | 01401 | SXD | KK,0 | IMAGINARY INDEX TO STG. |
| 01026 | -0534 | 00 | 1 | 01401 | LXD | KK,1 | SHOULD STILL BE 00000 |
| 01027 | -3 | 00000 | 1 | 01031 | TXL | *+2,1,0 | SHOULD TRANSFER |
| 01030 | 0000 | 00 | 0 | 01031 | HTR | *+1 | SXD IN ERROR WITH A ZERO TAG, PP. 2.12.02 |

*CHECK TAHT XRA IS RE-COMPLEMENTED AND REMAINS UNCHANGED
*AFTER A SXD INSTRUCTION.

| | | | | | | | |
|-------|-------|-------|---|-------|-----|------------------|--|
| 01031 | 0774 | 00 | 1 | 00000 | AXT | 0,1 | CLEAR XRA |
| 01032 | -0634 | 00 | 1 | 01401 | SXD | KK,1 | SHOULD NOT ADDECT CONTENTS OF XRA |
| 01033 | -3 | 00000 | 1 | 01035 | TXL | *+2,1,0 | SHOULD TRANSFER SINCE XRA SHOULD STILL BE 00000 |
| 01034 | 0000 | 00 | 0 | 01035 | HTR | *+1 | CONTENTS OF XRA CHANGED, IF XRA IS ALL 1-S FAILED TO RE-COMPLEMENT AT E11-D1, PAE 2.08.53.1 |
| 01035 | 0774 | 00 | 1 | 07777 | AXT | 7M+7C+7D+7,1 | 07777 TO XRA |
| 01036 | -0634 | 00 | 1 | 01401 | SXD | KK,1 | SHOULD NOT AFFECT CONTENTS OF XRA |
| 01037 | 3 | 07776 | 1 | 01041 | TXH | *+2,1,7M+7C+7D+6 | SHOULD TRANSFER |
| 01040 | 0000 | 00 | 0 | 01041 | HTR | *+1 | XRA CHANGED, SHOULD STILL BE 07777 |
| 01041 | -3 | 07777 | 1 | 01043 | TXL | *+2,1,7M+7C+7D+7 | SHOULD TRANSFER |
| 01042 | 0000 | 00 | 0 | 01043 | HTR | *+1 | XRA=07777 DEC=07777 |

* TEST LDC-LOAD COMPLEMENT OF DECREMENT IN INDEX.
* AT THIS POINT IT WILL BE ASSUMED THAT LAC HAS
* BEEN TESTED AND IS WORKING CORRECTLY SINCE LDC
* IS IDENTICAL EXCEPT THAT INSTEAD OF THE ADDRESS.
* THE SR DECREMENT GOES TO THE ADDERS.

01043 0774 00 1 02222 AXT 2M+2C+2D+2,1 02222 TO XRA
01044 -0535 00 1 01364 LDC DA7,1 2-S COMP. OF 77777 TO XRA
01045 3 00000 1 01047 TXH *+2,1,0 SHOULD TRANSFER
01046 0000 00 0 01047 HTR *+1 XRA SHOULD BE 00001
DEC=00000
IF XRA=00000, DIDN'T GET
A CARRY TO ADDER 17
PAGE 2.08.50.2
01047 -3 00001 1 01051 TXL *+2,1,1 SHOULD TRANSFER
01050 0000 00 0 01051 HTR *+1 XRA SHOULD BE 00001
DEC=00001
IF XRA=02222, DID NOT GET
PAST ADDERS AT E11-D1
PAGE 2.08.53.1
IF XRA=77777, DID NOT CYCLE
THROUGH ADDERS FOR 2-S
COMP AT I6-D1 PP. 2.08.53.1
IF XRA=05555, THE LOAD
INDEX FROM ADR. LINE IS UP,
PAGE 2.07.28

01051 0774 00 1 02222 AXT 2M+2C+2D+2,1 02222 TO XRA
01052 -0535 00 1 01363 LDC D0+1,1 2-S COMP. OF 70001 TO XRA
01053 3 07776 1 01055 TXH *+2,1,7M+7C+7D+6 SHOULD TRANSFER
01054 0000 00 0 01055 HTR *+1 XRA SHOULD BE 07777
DEC=07776
01055 -3 07777 1 01057 TXL *+2,1,7M+7C+7D+7 SHOULD TRANSFER
01056 0000 00 0 01057 HTR *+1 ERROR, XRA SHOULD BE 07777

* TEST LDC WITH A ZERO TAG

01057 0774 00 1 07777 AXT 7M+7C+7D+7,1 07777 TO XRA
01060 -0535 00 0 01361 LDC D7,0 2-S COMP. OF 07777 TO
IMAGINARY INDEX
01061 3 07776 1 01063 TXH *+2,1,7M+7C+7D+6 SHOULD TRANSFER
01062 0000 00 0 01063 HTR *+1 XRA SHOULD STILL BE
07777
IF XRA=00001, ADDERS
TO XRA LINE IS UP
PAGE 2.12.02
01063 -3 07777 1 01065 TXL *+2,1,7M+7C+7D+7 SHOULD TRANSFER
01064 0000 00 0 01065 HTR *+1 XRA=07777 DEC=07777

*CHECK THAT THE ADDRESS PORTION OF STORAGE 21-35 REMAINS
*UNCHANGED WHEN USING A LDC INSTRUCTION.

01065 0634 00 0 01401 SXA KK,0 CLEAR ADR. 21-35 OF STG.
01066 -0535 00 1 01401 LDC KK,1 ADR. IN STG. SHOULD
NOT CHANGE
01067 0534 00 1 01401 LXA KK,1 BRING ADR. INTO INDEX TO
SEE IF IT REMAINED UNCHANGED
01070 -3 00000 1 01072 TXL *+2,1,0 SHOULD TRANSFER
01071 0000 00 0 01072 HTR *+1 XRA SHOULD BE 00000,
ADR. 21-35 OF STG., CHANGED
USING AN LDC INSTRUCTION

*CHECK THAT THE DECREMENT OF STORAGE 3-17 REMAINS UNCHANGED
*AFTER AN SXA INSTRUCTION.

| | | | | | | |
|-------|-------|-------|---|-------|------------------|--|
| 01072 | 0774 | 00 | 1 | 00000 | AXT 0,1 | CLEAR XRA |
| 01073 | -0634 | 00 | 1 | 01401 | SXD KK,1 | CLEAR DEC, OF TEMP. STG. |
| 01074 | 0774 | 00 | 1 | 07777 | AXT 7M+7C+7D+7,1 | 07777 TO XRA |
| 01075 | 0634 | 00 | 1 | 01401 | SXA KK,1 | 3-17 OF TEMP. STG. SHOULD REMAIN UNCHANGED. |
| 01076 | -0534 | 00 | 1 | 01401 | LXD KK,1 | SHOULD BE 00000 |
| 01077 | -3 | 00000 | 1 | 01101 | TXL *+2,1,0 | SHOULD TRANSFER |
| 01100 | 0000 | 00 | 0 | 01101 | HTR *+1 | XRA=DEC=00000 |

*IN TESTING THE 6 INDEXING INSTRUCTIONS INVOLVING THE ACCUMULATOR
*IT WILL BE ASSUMED THAT THE OTHER INDEXING INSTRUCTIONS HAVE
*BEEN TESTED AND ARE WORKING AND ALSO THAT CLA IS OPERATING
*CORRECTLY.

* TEST PDX-PLACE DECREMENT IN INDEX

| | | | | | | |
|-------|-------|-------|---|-------|----------------------|---|
| 01101 | 0774 | 00 | 1 | 00000 | AXT 0,1 | CLEAR XRA |
| 01102 | 0500 | 00 | 0 | 01361 | CLA D7 | 0077770055555 TO ACC |
| 01103 | -0734 | 00 | 1 | 00000 | PDX 0,1 | 077777 TO XRA |
| 01104 | 3 | 07776 | 1 | 01106 | TXH *+2,1,7M+7C+7D+6 | SHOULD TRANSFER |
| 01105 | 0000 | 00 | 0 | 01106 | HTR *+1 | XRA SHOULD BE 07777 DEC=07776 IF XRA=00000,NEVER GOT PAST THE ADDERS AT I3-D1 PAGE 2.08.53.1 OR 2.08.06 IF XRA=05555 ROUTED ADR. TO INDEX,PP, 2.07.29 |
| 01106 | -3 | 07777 | 1 | 01110 | TXL *+2,1,7M+7C+7D+7 | SHOULD TRANSFER |
| 01107 | 0000 | 00 | 0 | 01110 | HTR *+1 | XRA SHOULD BE 07777 DEC=07777 |
| 01110 | 0774 | 00 | 1 | 07777 | AXT 7M+7C+7D+7,1 | 07777 TO XRA |
| 01111 | 0500 | 00 | 0 | 01362 | CLA D0 | 000000005555 TO XRA |
| 01112 | -0734 | 00 | 1 | 00000 | PDX 0,1 | 00000 TO XRA |
| 01113 | -3 | 00000 | 1 | 01115 | TXL *+2,1,0 | SHOULD TRANSFER |
| 01114 | 0000 | 00 | 0 | 01115 | HTR *+1 | XRA SHOULD BE 00000 DEC=00000 |

* TEST PDX WITH A ZERO TAG

| | | | | | | |
|-------|-------|-------|---|-------|-------------|--|
| 01115 | 0774 | 00 | 1 | 00000 | AXT 0,1 | CLEAR XRA |
| 01116 | 0500 | 00 | 0 | 01361 | CLA D7 | 0077770055555 |
| 01117 | -0734 | 00 | 0 | 00000 | PDX 0,0 | PLACE DECREMENT IN AN IMAGINARY INDEX |
| 01120 | -3 | 00000 | 1 | 01122 | TXL *+2,1,0 | SHOULD TRANSFER |
| 01121 | 0000 | 00 | 0 | 01122 | HTR *+1 | XRA SHOULD NOT HAVE CHANGED. |

* TEST PDC-PLACE COMPLEMENT OF DECREMENT IN INDEX

*ASSUME THAT SINCE PDX HAS BEEN TESTED,THE DECREMENT ROUTING
*TO THE ADDERS IS OK,AND ONLY THE COMPLEMENTING DURING THE NEXT
*ICYCLE NEEDS TO BE CHECKED.

```
01122 0774 00 1 02222      AXT 2M+2C+2D+2,1 02222 TO XRA
01123 0500 00 0 01364      CLA DA7          077777005555 TO ACC
01124 -0737 00 1 00000      PDC 0,1         2-S COMP. OF 77777 TO XRA
01125 3 00000 1 01127      TXH *+2,1,0     SHOULD TRANSFER
01126 0000 00 0 01127      HTR *+1         DID NOT TRANSFER ON TXH
                                XRA SHOULD BE 00001
                                DEC=00000
                                IF XRA=00000,DID NOT GET
                                CARRY TO ADDER I7 AT I0-D4
                                PAGE 2.08.50
01127 -3 00001 1 01131      TXL *+2,1,1     SHOULD TRANSFER
01130 0000 00 0 01131      HTR *+1         XRA SHOULD BE 00001
                                DEC=00001
                                IF XRA IS ALL 1-S
                                DID NOT CYCLE THROUGH
                                THE ADDERS TO COMPLEMENT
                                AT I3-D1,PP.2.08.53.2
                                IF XRA=02222,DID NOT ROUTE
                                DEC. TO INDEX,PP.2.08.53.1
```

```
01131 0774 00 1 02222      AXT 2M+2C+2D+2,1 02222 TO XRA
01132 0500 00 0 01363      CLA D0+1        070001005555 TO ACC
01133 -0737 00 1 00000      PDC 0,1         2-S COMP. OF 70001 TO XRA
01134 3 07776 1 01136      TXH *+2,1,7M+7C+7D+6 SHOULD TRANSFER
01135 0000 00 0 01136      HTR *+1         XRA SHOULD BE 07777
                                DEC=07776
01136 -3 07777 1 01140      TXL *+2,1,7M+7C+7D+7 SHOULD TRANSFER
01137 0000 00 0 01140      HTR *+1         XRA=DEC=07777
```

*CHECK THAT ZERO TAG DOES NOT ALTER XRA

```
01140 0774 00 1 00000      AXT 0,1         CLEAR XRA
01141 0500 00 0 01363      CLA D0+1
01142 -0737 00 0 00000      PDC 0,0         XRA SHOULD STILL BE 00000
01143 -3 00000 1 01145      TXL *+2,1,0     SHOULD TRANSFER
01144 0000 00 0 01145      HTR *+1         INDEX CHANGED WITH A
                                ZERO TAG
```

* TEST PAX-PLACE ADDRESS IN INDEX

*SINCE THE ADDRESS MUST BE SHIFTED TO THE DECEMENT PORTION
*OF THE ADDERS,THE ACC IS ROUTED VIA THE STORAGE BUSS.

```
01145 0774 00 1 00000      AXT 0,1         CLEAR XRA
01146 0500 00 0 01361      CLA D7          007777005555 TO ACC
01147 0734 00 1 00000      PAX 0,1         05555 TO XRA
01150 3 05554 1 01152      TXH *+2,1,5M+5C+5D+4 SHOULD TRANSFER
01151 0000 00 0 01152      HTR *+1         DID NOT TRANSFER ON TXH
                                XRA SHOULD BE 05555
                                DEC=05554
```

IF XRA=00000,DID NOT GET
PAST ADDERS AT I5-D1,
PAGE 2.08.53.2

| | | | | | | | |
|-------|------|-------|---|-------|-----|------------------|--|
| 01152 | -3 | 05555 | 1 | 01154 | TXL | *+2,1,5M+5C+5D+5 | SHOULD TRANSFER |
| 01153 | 0000 | 00 | 0 | 01154 | HTR | *+1 | DID NOT TRANSFER ON TXL XRA=DEC=05555 IF XRA=07777,ROUTED DEC. TO INDEX,PP.2.07.29 OR DID NOT SHIFT SR 18-35 TO ADD P-17,PP.2.08.48.2 |

| | | | | | | | |
|-------|------|-------|---|-------|-----|--------------|----------------------------------|
| 01154 | 0774 | 00 | 1 | 07777 | AXT | 7M+7C+7D+7,1 | 07777 TO XRA |
| 01155 | 0500 | 00 | 0 | 01365 | CLA | A0 | 077777000000 TO ACC |
| 01156 | 0734 | 00 | 1 | 00000 | PAX | 0,1 | 00000 TO XRA |
| 01157 | -3 | 00000 | 1 | 01161 | TXL | *+2,1,0 | SHOULD TRANSFER |
| 01160 | 0000 | 00 | 0 | 01161 | HTR | *+1 | XRA SHOULD BE 00000 DEC=00000 |

* TEST PAX WITH A ZERO TAG

| | | | | | | | |
|-------|------|-------|---|-------|-----|---------|--|
| 01161 | 0774 | 00 | 1 | 00000 | AXT | 0,1 | CLEAR XRA |
| 01162 | 0500 | 00 | 0 | 01361 | CLA | D7 | 007777005555 TO ACC |
| 01163 | 0734 | 00 | 0 | 00000 | PAX | 0,0 | 05555 TO IMAGINARY INDEX |
| 01164 | -3 | 00000 | 1 | 01166 | TXL | *+2,1,0 | SHOULD TRANSFER |
| 01165 | 0000 | 00 | 0 | 01166 | HTR | *+1 | XRA SHOULD REMAIN 00000 WITH A ZERO TAG |

* TEST PAC-PLACE COMPLEMENT OF ADDRESS IN INDEX

*ASSUME THAT SINCE PAX HAS BEEN TESTED,ACC ADDRESS ROUTING
*TO THE INDEX IS WORKING AND ONLY COMPLEMENTING NEEDS TO BE CHECKED.

| | | | | | | | |
|-------|------|-------|---|-------|-----|------------------|---|
| 01166 | 0774 | 00 | 1 | 00000 | AXT | 0,1 | CLEAR XRA |
| 01167 | 0500 | 00 | 0 | 01374 | CLA | A75 | 0111111075555 TO ACC |
| 01170 | 0737 | 00 | 1 | 00000 | PAC | 0,1 | 2-S COMP OF 75555 TO XRA |
| 01171 | 3 | 02222 | 1 | 01173 | TXH | *+2,1,2M+2C+2D+2 | SHOULD TRANSFER |
| 01172 | 0000 | 00 | 0 | 01173 | HTR | *+1 | FAILED TO TRANSFER ON TXH XRA SHOULD BE 02223 IF XRA=02222,DID NOT GET CARRY TO ADDER 17 AT I0-D4,PP.2.08.50 IF XRA=00000,DID NOT ROUTE ADR. TO INDEX AT ER8-D1,PP.2.08.53.2 |
| 01173 | -3 | 02223 | 1 | 01175 | TXL | *+2,1,2M+2C+2D+3 | SHOULD TRANSFER |
| 01174 | 0000 | 00 | 0 | 01175 | HTR | *+1 | DID NOT TRANSFER ON TXL XRA=DEC=02223 IF XRA=75555,DID NOT CYCLE THROUGH ADDERS FOR 2-S COMP.AT I3-D1, PAGE 2.08.53.2 |

| | | | | | | | |
|-------|------|----|---|-------|-----|--------------|--------------|
| 01175 | 0774 | 00 | 1 | 07777 | AXT | 7M+7C+7D+7,1 | 07777 TO XRA |
|-------|------|----|---|-------|-----|--------------|--------------|

```
01176 0500 00 0 01366      CLA A01      077777070001 TO ACC
01177 0737 00 1 00000      PAC 0,1     2-S COMP. OF 70001 TO XRA
01200 3 07776 1 01202      TXH *+2,1,7M+7C+7D+6 SHOULD TRANSFER
01201 0000 00 0 01202      HTR *+1     XRA SHOULD BE 07777
                                     DEC=07776
01202 -3 07777 1 01204      TXL *+2,1,7M+7C+7D+7 SHOULD TRANSFER
01203 0000 00 0 01204      HTR *+1     XRA=DEC=07777
```

* TEST PAC WITH A ZERO TAG

```
01204 0774 00 1 00000      AXT 0,1     CLEAR XRA
01205 0500 00 0 01366      CLA A01     077777070001 TO ACC
01206 0737 00 0 00000      PAC 0,0     07777 TO IMAGINARY INDEX
01207 -3 00000 1 01211      TXL *+2,1,0 SHOULD TRANSFER
01210 0000 00 0 01211      HTR *+1     XRA SHOULD STILL BE 00000
```

*CHECK THAT PDX,PDC,PAX,AND PAC LEAVE THE DECREMENT
*AND THE ADDRESS OF THE ACCUMULATOR UNCHANGED.

```
01211 0500 00 0 01364      CLA DA7     077777005555 TO ACC.
01212 -0734 00 1 00000      PDX 0,1     SHOULD NOT ALTER ACC ADDRESS
01213 0734 00 1 00000      PAX 0,1     05555 TO XRA
01214 3 05554 1 01216      TXH *+2,1,5M+5C+5D+4 SHOULD TRANSFER
01215 0000 00 0 01216      HTR *+1     ACC ADR.WAS CHANGED BY PDX
01216 -3 05555 1 01220      TXL *+2,1,5M+5C+5D+5 SHOULD TRANSFER
01217 0000 00 0 01220      HTR *+1     XRA=DEC=05555
```

```
01220 0500 00 0 01364      CLA DA7     077777005555 TO ACC.
01221 -0737 00 1 00000      PDC 0,1     SHOULD NOT ALTER ACC ADDRESS
01222 0734 00 1 00000      PAX 0,1     05555 TO XRA
01223 3 05554 1 01225      TXH *+2,1,5M+5C+5D+4 SHOULD TRANSFER
01224 0000 00 0 01225      HTR *+1     ACC ADR.WAS CHANGED BY PDX
01225 -3 05555 1 01227      TXL *+2,1,5M+5C+5D+5 SHOULD TRANSFER
01226 0000 00 0 01227      HTR *+1     XRA=DEC=05555
```

```
01227 0500 00 0 01367      CLA A55     000000005555 TO ACC.
01230 0734 00 1 00000      PAX 0,1     SHOULD NOT ALTER ACC ADDRESS
01231 -0734 00 1 00000      PDX 0,1     00000 TO XRA
01232 -3 00000 1 01234      TXL *+2,1,0 SHOULD TRANSFER
01233 0000 00 0 01234      HTR *+1     ACC DEC.WAS CHANGED BY PAX
```

```
01234 0500 00 0 01367      CLA A55     000000005555 TO ACC.
01235 0737 00 1 00000      PAC 0,1     SHOULD NOT ALTER ACC ADDRESS
01236 -0734 00 1 00000      PDX 0,1     00000 TO XRA
01237 -3 00000 1 01241      TXL *+2,1,0 SHOULD TRANSFER
01240 0000 00 0 01241      HTR *+1     ACC DEC.WAS CHANGED BY PAC
```

*TEST PDX-PLACE INDEX IN DECREMENT AND PXA-PLACE
*INDEX IN ADDRESS

*ASSUME THAT PREVIOUS INSTRUCTIONS PDX AND PAX HAVE BEEN TESTED
*AND ARE WORKING CORRECTLY.

| | | | | | | |
|---|-------|-------|---|-------|----------------------|--|
| 01241 | 0500 | 00 | 0 | 01411 | CLA AL7 | ALL 1-S TO ACC |
| 01242 | 0774 | 00 | 1 | 00001 | AXT 1,1 | 00001 TO XRA |
| 01243 | -0754 | 00 | 1 | 00000 | PXD 0,1 | 00001 TO DEC OF ACC |
| 01244 | -0734 | 00 | 1 | 00000 | PDX 0,1 | BRING IT BACK TO XRA TO SEE IF PXD ROUTING IS OK |
| 01245 | 3 | 00000 | 1 | 01247 | TXH *+2,1,0 | SHOULD TRANSFER |
| 01246 | 0000 | 00 | 0 | 01247 | HTR *+1 | XRA SHOULD BE 00001 DEC=00000 IF XRA=00000,DID NOT GET A CARRY TO ADDER 17 AT ER4-D2 WHEN COMPLEMENTING XRA IN ORDER TO GET THE TRUE OUTPUT.PP.2.08.49.2 |
| 01247 | -3 | 00001 | 1 | 01251 | TXL *+2,1,1 | SHOULD TRANSFER |
| 01250 | 0000 | 00 | 0 | 01251 | HTR *+1 | XRA SHOULD BE 00001 DEC=00001 IF XRA=77776,DID NOT CYCLE THROUGH ADDERS IN ORDER TO GET THE TRUE OUTPUT AT ER5-D1,PP.2.08.53.2 |
| 01251 | 0500 | 00 | 0 | 01400 | CLA AZE | ALL 0-S TO ACC |
| 01252 | 0774 | 00 | 1 | 07777 | AXT 7M+7C+7D+7,1 | 07777 TO XRA |
| 01253 | -0754 | 00 | 1 | 00000 | PXD 0,1 | 07777 TO DEC.OF ACC |
| 01254 | -0734 | 00 | 1 | 00000 | PDX 0,1 | 07777 TO XRA |
| 01255 | 3 | 07776 | 1 | 01257 | TXH *+2,1,7M+7C+7D+6 | SHOULD TRANSFER |
| 01256 | 0000 | 00 | 0 | 01257 | HTR *+1 | XRA SHOULD BE 07777 DEC=07776 |
| 01257 | -3 | 07777 | 1 | 01261 | TXL *+2,1,7M+7C+7D+7 | SHOULD TRANSFER |
| 01260 | 0000 | 00 | 0 | 01261 | HTR *+1 | XRA SHOULD BE 07777 DEC=07777 |
| *CHECK TO SEE IF THE INDEX REGISTER IS RESTORED TO ITS *ORIGINAL CONTENTS AFTER A PXD INSTRUCTION. | | | | | | |
| 01261 | 0774 | 00 | 1 | 07777 | AXT 7M+7C+7D+7,1 | 07777 TO XRA |
| 01262 | -0754 | 00 | 1 | 00000 | PXD 0,1 | XRA SHOULD REMAIN UNCHANGED |
| 01263 | 3 | 07776 | 1 | 01265 | TXH *+2,1,7M+7C+7D+6 | SHOULD TRANSFER |
| 01264 | 0000 | 00 | 0 | 01265 | HTR *+1 | XRA SHOULD STILL BE 07777 DEC=07776 XRA CHANGED WITH A PXD INSTRUCTION IF XRA=70000 DID NOT RE-CYCLE THE INDEX AT ER9-D1 PAGE 2.08.53.2 |
| 01265 | -3 | 07777 | 1 | 01267 | TXL *+2,1,7M+7C+7D+7 | SHOULD TRANSFER |
| 01266 | 0000 | 00 | 0 | 01267 | HTR *+1 | XRA=DEC=07777 |
| 01267 | 0774 | 00 | 1 | 00001 | AXT 1,1 | 00001 TO XRA |
| 01270 | -0754 | 00 | 1 | 00000 | PXD 0,1 | XRA SHOULD REMAIN UNCHANGED |
| 01271 | 3 | 00000 | 1 | 01273 | TXH *+2,1,0 | SHOULD TRANSFER |
| 01272 | 0000 | 00 | 0 | 01273 | HTR *+1 | XRA SHOULD BE 00001 DEC=00000 |

01273 -3 00001 1 01275 TXL *+2,1,1 SHOULD TRANSFER
01274 0000 00 0 01275 HTR *+1 XRA=DEC=00001
IF XRA=77776, DID NOT
RE-CYCLE THE INDEX AT ER9-D1
PAGE 2.08.53.2

*CHECK THAT PXD WITH A ZERO TAG CLEARS THE ACC DECREMENT.

01275 0774 00 1 07777 AXT 7M+7C+7D+7,1 07777 TO XRA
01276 0500 00 0 01361 CLA D7 07777 IN ACC DECREMENT
01277 0754 00 0 00000 PXA 0,0 SHOULD CLEAR DECREMENT
01300 -0734 00 1 00000 PDX 0,1 BRING DEC.TO XRA AND SEE
IF IT HAS BEEN CLEARED.
01301 -3 00000 1 01303 TXL *+2,1,0 SHOULD TRANSFER
01302 0000 00 0 01303 HTR *+1 ZERO TAG DID NOT CLEAR DEC.

*CHECK THAT THE ACCUMULATOR ADDRESS IS CLEARED USING A PXD INSTRUCTION

01303 0500 00 0 01411 CLA AL7 ALL 1-S TO ACCUMULATOR
01304 0774 00 0 01362 AXT D0 05555 TO XRA
01305 -0754 00 1 00000 PXD 0,1 SHOULD CLEAR ACC ADDRESS
01306 0734 00 1 00000 PAX 0,1 CHECK IF ADR.IS 00000
01307 -3 00000 1 01311 TXL *+2,1,0 SHOULD TRANSFER
01310 0000 00 0 01311 HTR *+1 XRA SHOULD BE 00000
DEC=00000
IF XRA IS ALL 1-S,DID NOT
CLEAR ADDRESS
IF XRA=05555,BROUGH INDEX
TO ADDRESS USING THE PXD
INSTRUCTION.

* TEST PXA-PLACE INDEX IN ADDRESS

01311 0500 00 0 01411 CLA AL7 ALL 1-S TO ACC.
01312 0774 00 1 00001 AXT 1,1 00001 TO XRA
01313 0754 00 1 00000 PXA 0,1 00001 TO ADR OF ACC
01314 0734 00 0 00000 PAX BRING IT BACK TO XRA TO
SEE IF PXA ROUTING IS OK
01315 3 00000 1 01317 TXH *+2,1,0 SHOULD TRANSFER
01316 0000 00 0 01317 HTR *+1 XRA SHOULD BE 00001
DEC=00000
IF XRA=00000,MIGHT HAVE
BROUGHT INDEX TO DECREMENT
AND CLEARED ADDRESS
01317 -3 00001 1 01321 TXL *+2,1,1 SHOULD TRANSFER
01320 0000 00 0 01321 HTR *+1 XRA=DEC=00001
IF XRA IS ALL 1-S,NEVER
ROUTED PXA PAST THE ADDER
AT I0-D4,PP.2.08.05.2
IF XRA=7776 NEVER CYCLED
XRA TO GET THE TRUE OUTPUT
AT ER 5-D1,PP.2.08.53.2

01321 0500 00 0 01400 CLA AZE ALL 0-S TO ACC

| | | | | | | | |
|-------|------|-------|---|-------|-----|------------------|---------------------|
| 01322 | 0774 | 00 | 1 | 07777 | AXT | 7M+7C+7D+7,1 | 07777 TO XRA |
| 01323 | 0754 | 00 | 1 | 00000 | PXA | 0,1 | 07777 TO ADR.OF ACC |
| 01324 | 0734 | 00 | 1 | 00000 | PAX | 0,1 | 07777 TO XRA |
| 01325 | 3 | 07776 | 1 | 01327 | TXH | *+2,1,7M+7C+7D+6 | SHOULD TRANSFER |
| 01326 | 0000 | 00 | 0 | 01327 | HTR | *+1 | XRA=07777 DEC=07776 |
| 01327 | -3 | 07777 | 1 | 01331 | TXL | *+2,1,7M+7C+7D+7 | SHOULD TRANSFER |
| 01330 | 0000 | 00 | 0 | 01331 | HTR | *+1 | XRA=DEC=07777 |

*CHECK TO SEE IF THE INDEX REGISTER IS RESTORED TO ITS ORIGINAL
*CONTENTS AFTER A PXA INSTRUCTION.

| | | | | | | | |
|-------|------|-------|---|-------|-----|------------------|--|
| 01331 | 0774 | 00 | 1 | 07777 | AXT | 7M+7C+7D+7,1 | 07777 TO XRA |
| 01332 | 0754 | 00 | 1 | 00000 | PXA | 0,1 | XRA SHOULD REMAIN UNCHANGED |
| 01333 | 3 | 07776 | 1 | 01335 | TXH | *+2,1,7M+7C+7D+6 | SHOULD TRANSFER |
| 01334 | 0000 | 00 | 0 | 01335 | HTR | *+1 | XRA SHOULD STILL BE 07777 DEC=07776 XRA CHANGED WITHA PXA INSTRUCTION IF XRA=00000, DID NOT RE-CYCLE THE INDEX AT ER9-C PAGE 2.08.53.2 |
| 01335 | -3 | 07777 | 1 | 01337 | TXL | *+2,1,7M+7C+7D+7 | SHOULD TRANSFER |
| 01336 | 0000 | 00 | 0 | 01337 | HTR | *+1 | XRA=DEC=07777 |
| 01337 | 0774 | 00 | 1 | 00001 | AXT | 1,1 | 00001 TO XRA |
| 01340 | 0754 | 00 | 1 | 00000 | PXA | 0,1 | XRA SHOULD REMAIN UNCHANGED |
| 01341 | 3 | 00000 | 1 | 01343 | TXH | *+2,1,0 | SHOULD TRANSFER |
| 01342 | 0000 | 00 | 0 | 01343 | HTR | *+1 | XRA SHOULD 00001 DEC=00000 |
| 01343 | -3 | 00001 | 1 | 01345 | TXL | *+2,1,1 | SHOULD TRANSFER |
| 01344 | 0000 | 00 | 0 | 01345 | HTR | *+1 | XRA=DEC=00001 |

*CHECK THAT PXA WITH A ZERO TAG CLEARS THE ACC ADDRESS

| | | | | | | | |
|-------|------|-------|---|-------|-----|--------------|---|
| 01345 | 0774 | 00 | 1 | 07777 | AXT | 7M+7C+7D+7,1 | 07777 TO XRA |
| 01346 | 0500 | 00 | 0 | 01367 | CLA | A55 | 55555 TO ACC ADDRESS |
| 01347 | 0754 | 00 | 0 | 00000 | PXA | 0,0 | SHOULD CLEAR ADDRESS |
| 01350 | 0734 | 00 | 1 | 00000 | PAX | 0,1 | BRING ADR.TO XRA AND SEE IF IT HAS BEEN CLEARED. |
| 01351 | -3 | 00000 | 1 | 01353 | TXL | *+2,1,0 | SHOULD TRANSFER |
| 01352 | 0000 | 00 | 0 | 01353 | HTR | *+1 | ZERO TAG DID NOT CLEAR ADR. |

*CHECK THAT THE DECREMENT ADDRESS IS CLEARED USING A PXA INSTRUCTION

| | | | | | | | |
|-------|-------|-------|---|-------|-----|----------|--|
| 01353 | 0500 | 00 | 0 | 01411 | CLA | AL7 | ALL 1-S TO ACCUMULATOR |
| 01354 | 0774 | 00 | 0 | 01362 | AXT | D0 | 05555 TO XRA |
| 01355 | 0754 | 00 | 1 | 00000 | PXA | 0,1 | SHOULD CLEAR ACC DECREMENT |
| 01356 | -0734 | 00 | 1 | 00000 | PDX | 0,1 | CHECK IF DEC.IS 00000 |
| 01357 | -3 | 00000 | 1 | 01412 | TXL | *+27,1,0 | SHOULD TRANSFER |
| 01360 | 0000 | 00 | 0 | 01414 | HTR | *+28 | XRA SHOULD BE 00000 DEC=00000 IF XRA IS ALL 1-S,DID NOT CLEAR ADDRESS |

IF XRA=05555,BROUGHT
INDEX TO DECREMENT USING
THE PXA INSTRUCTION.

CONSTANTS

| | | | |
|-------|---------------|------|------------------|
| 01361 | +007777005555 | D7 | OCT 007777005555 |
| 01362 | +000000005555 | D0 | OCT 000000005555 |
| 01363 | +070001005555 | | OCT 070001005555 |
| 01364 | +077777005555 | DA7 | OCT 077777005555 |
| 01365 | +077777000000 | A0 | OCT 077777000000 |
| 01366 | +077777070001 | A01 | OCT 077777070001 |
| 01367 | +000000055555 | A55 | OCT 000000055555 |
| 01370 | +000000071111 | A71 | OCT 71111 |
| 01371 | +000000072222 | A72 | OCT 72222 |
| 01372 | +000000073333 | A73 | OCT 73333 |
| 01373 | +000000074444 | A74 | OCT 74444 |
| 01374 | +011111075555 | A75 | OCT 011111075555 |
| 01375 | +000000076666 | A76 | OCT 76666 |
| 01376 | +000000070001 | A701 | OCT 70001 |
| 01377 | +000000071000 | A710 | OCT 71000 |
| 01400 | +000000000000 | AZE | OCT 0 |
| 01401 | +000000000000 | KK | OCT 0 |
| 01402 | +000000001111 | | OCT 01111 |
| 01403 | +000000002222 | | OCT 02222 |
| 01404 | +000000003333 | | OCT 03333 |
| 01405 | +000000004444 | | OCT 04444 |
| 01406 | +000000005555 | | OCT 05555 |
| 01407 | +000000006666 | | OCT 06666 |
| 01410 | +000000007777 | | OCT 07777 |
| 01411 | -377777777777 | AL7 | OCT 777777777777 |

TEMPORARY STORAGE

SYMBOLIC VALUES NOT STORED

| | | | |
|-------|----|-----------|------------|
| 00010 | D | EQU 8 | 10 OCTAL |
| 00020 | 2D | EQU 2*8 | 20 OCTAL |
| 00030 | 3D | EQU 3*8 | 30 OCTAL |
| 00040 | 4D | EQU 4*8 | 40 OCTAL |
| 00050 | 5D | EQU 5*8 | 50 OCTAL |
| 00060 | 6D | EQU 6*8 | 60 OCTAL |
| 00070 | 7D | EQU 7*8 | 70 OCTAL |
| 00100 | C | EQU 64 | 100 OCTAL |
| 00200 | 2C | EQU 2*64 | 200 OCTAL |
| 00300 | 3C | EQU 3*64 | 300 OCTAL |
| 00400 | 4C | EQU 4*64 | 400 OCTAL |
| 00500 | 5C | EQU 5*64 | 500 OCTAL |
| 00600 | 6C | EQU 6*64 | 600 OCTAL |
| 00700 | 7C | EQU 7*64 | 700 OCTAL |
| 01000 | M | EQU 512 | 1000 OCTAL |
| 02000 | 2M | EQU 2*512 | 2000 OCTAL |
| 03000 | 3M | EQU 3*512 | 3000 OCTAL |
| 04000 | 4M | EQU 4*512 | 4000 OCTAL |
| 05000 | 5M | EQU 5*512 | 5000 OCTAL |
| 06000 | 6M | EQU 6*512 | 6000 OCTAL |
| 07000 | 7M | EQU 7*512 | 7000 OCTAL |

| | | | | |
|-------|-----|--------------------|--------|-------|
| 10000 | 10M | EQU 4096 | 10,000 | OCTAL |
| 20000 | 20M | EQU 2*10M | 20,000 | OCTAL |
| 30000 | 30M | EQU 3*10M | 30,000 | OCTAL |
| 40000 | 40M | EQU 4*10M | 40,000 | OCTAL |
| 50000 | 50M | EQU 5*10M | 50,000 | OCTAL |
| 60000 | 60M | EQU 6*10M | 60,000 | OCTAL |
| 70000 | 70M | EQU 7*10M | 70,000 | OCTAL |
| 07777 | 4K | EQU 4095 | 7777 | OCTAL |
| 77777 | 32K | EQU 32767 | 77,777 | OCTAL |
| 22222 | A2 | EQU 20M+2M+2C+2D+2 | 22222 | OCTAL |

* TEST FOR SIZE OF STORAGE

| | | | | | | | |
|-------|-------|----|---|-------|----|-----------|--|
| | 01412 | Q | | HED | | | |
| 01412 | 0500 | 00 | 0 | 01567 | WC | CLA CST+3 | ALL 0-S |
| 01413 | 0601 | 00 | 0 | 77777 | | STO 32767 | STORE IN 32K OR HIGHEST POSITION OF STORAGE |
| 01414 | 0400 | 00 | 0 | 06620 | | ADD L2 | |
| 01415 | 0601 | 00 | 0 | 37777 | | STO 16383 | 16K OR HIGHEST POS. OF STG. |
| 01416 | 0400 | 00 | 0 | 06620 | | ADD L2 | |
| 01417 | 0601 | 00 | 0 | 17777 | | STO 8191 | 8K OR HIGHEST POS. OF STG. |
| 01420 | 0400 | 00 | 0 | 06620 | | ADD L2 | |
| 01421 | 0601 | 00 | 0 | 07777 | | STO 4095 | 4K OR HIGHEST POS. OF STG. |
| 01422 | 0500 | 00 | 0 | 77777 | | CLA 32767 | BRING BACK WORD FROM HIGHEST POSITION OF STORAGE |
| 01423 | 0100 | 00 | 0 | 01433 | | TZE DW | 32K CAPACITY |
| 01424 | 0402 | 00 | 0 | 06620 | | SUB L2 | |
| 01425 | 0100 | 00 | 0 | 01436 | | TZE DW+3 | 16K CAPACITY |
| 01426 | 0402 | 00 | 0 | 06620 | | SUB L2 | |
| 01427 | 0100 | 00 | 0 | 01441 | | TZE DW+6 | 8K CAPACITY |
| 01430 | 0402 | 00 | 0 | 06620 | | SUB L2 | |
| 01431 | 0100 | 00 | 0 | 01444 | | TZE DW+9 | 4K CAPACITY |
| 01432 | 0000 | 00 | 0 | 01764 | | HTR L5 | ERROR TESTING STG. CAPCITY TEST FOR 4K STG. ON RESTART |
| 01433 | 0500 | 00 | 0 | 01564 | DW | CLA CST | +00007 |
| 01434 | 0601 | 00 | 0 | 01574 | | STO KK | STORE CONSTANT FOR 32K CAPCITY IN TEMPORARY STG. |
| 01435 | 0020 | 00 | 0 | 01447 | | TRA RF | DOUBLE CHECK 32K CAPACITY USING INDEX REG. ROUTING |

| | | | | | | | |
|-------|------|----|---|-------|----|-------------|--|
| 01436 | 0500 | 00 | 0 | 01565 | | CLA CST+1 | +00003 |
| 01437 | 0601 | 00 | 0 | 01574 | | STO KK | CONSTANT FOR 16K CAPACITY |
| 01440 | 0020 | 00 | 0 | 01447 | | TRA RF | CHECK USING XRA ROUTING |
| | | | | | | | |
| 01441 | 0500 | 00 | 0 | 01566 | | CLA CST+2 | +00001 |
| 01442 | 0601 | 00 | 0 | 01574 | | STO KK | CONSTANT FOR 8K CAPACITY |
| 01443 | 0020 | 00 | 0 | 01447 | | TRA RF | CHECK USING XRA ROUTING |
| | | | | | | | |
| 01444 | 0500 | 00 | 0 | 01567 | | CLA CST+3 | +00000 |
| 01445 | 0601 | 00 | 0 | 01574 | | STO KK | CONSTANT FOR 4K CAPACITY |
| 01446 | 0020 | 00 | 0 | 01447 | | TRA RF | CHECK FOR XRA ROUTING |
| | | | | | | | |
| 01447 | 0774 | 00 | 1 | 77777 | RF | AXT 32767,1 | BRING HIGHEST ADR. TO XRA |
| 01450 | 0754 | 00 | 1 | 00000 | | PXA 0,1 | XRA TO AC |
| 01451 | 0340 | 00 | 0 | 01570 | | CAS CST+4 | 17777 COMPARE AC WITH 8K |
| 01452 | 0020 | 00 | 0 | 01461 | | TRA RF+10 | 16 OR 32K |
| 01453 | 0020 | 00 | 0 | 01472 | | TRA RF+19 | 8K CAPACITY |
| 01454 | 0500 | 00 | 0 | 01567 | | CLA CST+3 | +00000 4K CAPACITY |
| | | | | | | | |
| 01455 | 0340 | 00 | 0 | 01574 | | CAS KK | SEE IF WE GOT 4K FIRST TIME |
| 01456 | 0020 | 00 | 0 | 01503 | | TRA ER | |
| 01457 | 0020 | 00 | 0 | 01537 | | TRA LJB+27 | OK PRINT OUT 4K CAPACITY |
| 01460 | 0020 | 00 | 0 | 01503 | | TRA ER | |
| | | | | | | | |
| 01461 | 0340 | 00 | 0 | 01571 | | CAS CST+5 | 37777 COMPARE AC WITH 16K |
| 01462 | 0020 | 00 | 0 | 01477 | | TRA RF+24 | 32K CAPACITY |
| 01463 | 0020 | 00 | 0 | 01465 | | TRA RF+14 | 16K CAPACITY |
| 01464 | 0020 | 00 | 0 | 01503 | | TRA ER | |
| 01465 | 0500 | 00 | 0 | 01565 | | CLA CST+1 | +00003 |
| 01466 | 0340 | 00 | 0 | 01574 | | CAS KK | SEE IF WE GOT 16K FRST TIME |
| 01467 | 0020 | 00 | 0 | 01503 | | TRA ER | |
| 01470 | 0020 | 00 | 0 | 01516 | | TRA LJB+10 | OK PRINT OUT 16K CAPACITY |
| 01471 | 0020 | 00 | 0 | 01503 | | TRA ER | |
| | | | | | | | |
| 01472 | 0500 | 00 | 0 | 01566 | | CLA CST+2 | +00001 |
| 01473 | 0340 | 00 | 0 | 01574 | | CAS KK | SEE IF WE GOT 8K FIRST TIME |
| 01474 | 0020 | 00 | 0 | 01503 | | TRA ER | |
| 01475 | 0020 | 00 | 0 | 01530 | | TRA LJB+20 | OK PRINT OUT 8K CAPACITY |
| 01476 | 0020 | 00 | 0 | 01503 | | TRA ER | |
| | | | | | | | |
| 01477 | 0500 | 00 | 0 | 01564 | | CLA CST | +00007 |
| 01500 | 0340 | 00 | 0 | 01574 | | CAS KK | SEE IF WE GOT 32K FRST TIME |
| 01501 | 0020 | 00 | 0 | 01503 | | TRA ER | |
| 01502 | 0020 | 00 | 0 | 01504 | | TRA LJB | OK PRINT OUT 32K CAPACITY |
| | | | | | | | |
| 01503 | 0000 | 00 | 0 | 01764 | ER | HTR L5 | ERROR IN ADDRESSING LINES. CHECK ACCUMULATOR NEONS POS.21-23 TO DETERMINE WHICH LINE IS UP OR DOWN IN ERROR. TEST FOR 4K ON RESTART |

```

01504 0500 00 0 01572 LJB CLA LB PLACE THE SIZE OF STORAGE
01505 0400 00 0 01611 ADD PRIMG+12 IN THE PRINT IMAGE
01506 0601 00 0 01611 STO PRIMG+12 32K
01507 0500 00 0 01573 CLA LB+1
01510 0400 00 0 01613 ADD PRIMG+14
01511 0601 00 0 01613 STO PRIMG+14
01512 0761 00 0 00000 NOP
01513 0020 00 0 01546 TRA PRINT
01514 0500 00 0 01574 CLA KK ACC SHOULD BE 00007 FOR 32K
01515 0000 00 0 01625 HTR L3 SET CONSTANT FOR 32K

```

```

01516 0500 00 0 01572 CLA LB 16K
01517 0400 00 0 01615 ADD PRIMG+16
01520 0601 00 0 01615 STO PRIMG+16
01521 0500 00 0 01573 CLA LB+1
01522 0400 00 0 01603 ADD PRIMG+6
01523 0601 00 0 01603 STO PRIMG+6
01524 0761 00 0 00000 NOP
01525 0020 00 0 01546 TRA PRINT
01526 0500 00 0 01574 CLA KK ACC SHOULD BE 00003 FOR 16K
01527 0000 00 0 01644 HTR L10 SET CONSTANTS FOR 16K

```

```

01530 0500 00 0 01573 CLA LB+1 8K
01531 0400 00 0 01577 ADD PRIMG+2
01532 0601 00 0 01577 STO PRIMG+2
01533 0761 00 0 00000 NOP
01534 0020 00 0 01546 TRA PRINT
01535 0500 00 0 01574 CLA KK ACC SHOULD BE 00001 FOR 8K
01536 0000 00 0 01666 HTR L4 SET CONSTANTS FOR 8K

```

```

01537 0500 00 0 01573 CLA LB+1 4K
01540 0400 00 0 01607 ADD PRIMG+10
01541 0601 00 0 01607 STO PRIMG+10
01542 0761 00 0 00000 NOP
01543 0020 00 0 01546 TRA PRINT
01544 0500 00 0 01574 CLA KK ACC SHOULD BE 00000 FOR 4K
01545 0000 00 0 01764 HTR L5 SET CONSTANTS FOR 4K

```

```

01546 0766 00 0 01361 PRINT WPRA FIRST PASS ONLY
01547 0760 00 0 01363 SPRA 3
01550 0540 00 0 01552 RCHA PRIM
01551 0020 00 0 01553 TRA SC

```

```

01552 0000 30 0 01575 PRIM IOCD PRIMG,0,24

```

```

01553 0500 00 0 01574 SC CLA KK SET CONSTANTS DEPENDING
UPON SIZE OF STORAGE

```

| | | | | | | | |
|-------|------|----|---|-------|-----|-------|---|
| 01554 | 0340 | 00 | 0 | 01565 | CAS | CST+1 | +00003 |
| 01555 | 0020 | 00 | 0 | 01625 | TRA | L3 | 32K |
| 01556 | 0020 | 00 | 0 | 01644 | TRA | L10 | 16K |
| 01557 | 0020 | 00 | 0 | 01560 | TRA | SC+5 | 8K OR 4K |
| | | | | | | | |
| 01560 | 0340 | 00 | 0 | 01567 | CAS | CST+3 | +00000 |
| 01561 | 0020 | 00 | 0 | 01666 | TRA | L4 | 8K |
| 01562 | 0020 | 00 | 0 | 01764 | TRA | L5 | 4K |
| 01563 | 0000 | 00 | 0 | 00000 | HTR | | ERROR IN LOOKING UP STORAGE CAPACITY |

* CONSTANTS

| | | | | |
|-------|----------------|-----|-----------|-------------------|
| 01564 | +0000000000007 | CST | OCT 7 | 32K |
| 01565 | +0000000000003 | | OCT 3 | 16K |
| 01566 | +0000000000001 | | OCT 1 | 8K |
| 01567 | +0000000000000 | | OCT 0 | 4K |
| 01570 | +000000017777 | | OCT 17777 | |
| 01571 | +000000037777 | | OCT 37777 | |
| 01572 | +0000000000020 | LB | OCT 20 | |
| 01573 | +0000000000010 | | OCT 10 | |
| 01574 | +0000000000000 | KK | OCT 0 | TEMPORARY STORAGE |

| | | | | | |
|-------|---------------|-------|-----------------|-----|-----|
| 01575 | +000020000100 | PRIMG | OCT 20000100 | 9L | |
| 01576 | +020100000000 | | OCT 20100000000 | | 9R |
| 01577 | +000000000000 | | OCT 0 | 8L | |
| 01600 | +004000000000 | | OCT 400000000 | | 8R |
| 01601 | +000004000000 | | OCT 4000000 | 7L | |
| 01602 | +200020000000 | | OCT 20002000000 | | 7R |
| 01603 | +000000400600 | | OCT 400600 | 6L | |
| 01604 | +000200000000 | | OCT 200000000 | | 6R |
| 01605 | +000210210000 | | OCT 210210000 | 5L | |
| 01606 | +000010000000 | | OCT 10000000 | | 5R |
| 01607 | +000000000000 | | OCT 0 | 4L | |
| 01610 | +000000000000 | | OCT 0 | | 4R |
| 01611 | +000141044001 | | OCT 141044001 | 3L | |
| 01612 | +050400000000 | | OCT 50400000000 | | 3R |
| 01613 | +000400102004 | | OCT 400102004 | 2L | |
| 01614 | +001000000000 | | OCT 1000000000 | | 2R |
| 01615 | +000000020000 | | OCT 20000 | 1L | |
| 01616 | -100040000000 | | OCT 50004000000 | | 1R |
| 01617 | +000540146000 | | OCT 540146000 | 0L | |
| 01620 | +015400000000 | | OCT 15400000000 | | 0R |
| 01621 | +000010610304 | | OCT 10610304 | 11L | |
| 01622 | +200300000000 | | OCT 20030000000 | | 11R |
| 01623 | +000225020401 | | OCT 225020401 | 12L | |
| 01624 | -160070000000 | | OCT 56007000000 | | 12R |

SET CONSTANTS FOR 32K STORAGE

| | | | | | | | | |
|-------|------|----|---|-------|----|-----|------|-------------------|
| 01625 | 0500 | 00 | 0 | 06711 | L3 | CLA | L12D | +074000074000 |
| 01626 | 0622 | 00 | 0 | 06673 | | STD | K7D | L 074000 IN DECR. |

| | | | | | | |
|-------|------|----|---|-------|----------|---------------|
| 01627 | 0500 | 00 | 0 | 06632 | CLA K0+2 | ALL ONES |
| 01630 | 0601 | 00 | 0 | 06635 | STO K0+5 | |
| 01631 | 0500 | 00 | 0 | 06641 | CLA K2 | L 35253 00000 |
| 01632 | 0601 | 00 | 0 | 06637 | STO K0+7 | |
| 01633 | 0500 | 00 | 0 | 06643 | CLA K3 | L 32526 00000 |
| 01634 | 0601 | 00 | 0 | 06640 | STO K0+8 | |
| 01635 | 0500 | 00 | 0 | 06701 | CLA K17D | L0 |
| 01636 | 0621 | 00 | 0 | 06731 | STA Z | |
| 01637 | 0621 | 00 | 0 | 06730 | STA Y | |
| 01640 | 0622 | 00 | 0 | 06727 | STD X | |
| 01641 | 0622 | 00 | 0 | 06726 | STD W | |
| 01642 | 0500 | 00 | 0 | 06611 | CLA L1+8 | L 77777 |
| 01643 | 0020 | 00 | 0 | 01713 | TRA L6 | |

SET CONSTANTS FOR 16K STORAGE

| | | | | | | |
|-------|------|----|---|-------|--------------|-------------------|
| 01644 | 0500 | 00 | 0 | 06710 | L10 CLA L11D | L +034000034000 |
| 01645 | 0622 | 00 | 0 | 06673 | STD K7D | L 034000 IN DECR. |
| 01646 | 0500 | 00 | 0 | 06633 | CLA K0+3 | L -337777737777 |
| 01647 | 0601 | 00 | 0 | 06635 | STO K0+5 | |
| 01650 | 0500 | 00 | 0 | 06641 | CLA K2 | L 35253000000 |
| 01651 | 0601 | 00 | 0 | 06637 | STO K0+7 | |
| 01652 | 0500 | 00 | 0 | 06643 | CLA K3 | L 32526000000 |
| 01653 | 0601 | 00 | 0 | 06640 | STO K0+8 | |
| 01654 | 0500 | 00 | 0 | 06705 | CLA K22D | L 30000 |
| 01655 | 0400 | 00 | 0 | 06702 | ADD K20D | L 10000 |
| 01656 | 0621 | 00 | 0 | 06731 | STA Z | |
| 01657 | 0621 | 00 | 0 | 06730 | STA Y | |
| 01660 | 0767 | 00 | 0 | 00022 | ALS 18 | |
| 01661 | 0622 | 00 | 0 | 06727 | STD X | |
| 01662 | 0622 | 00 | 0 | 06726 | STD W | |
| 01663 | 0500 | 00 | 0 | 06611 | CLA L1+8 | L 77777 |
| 01664 | 0771 | 00 | 0 | 00001 | ARS 1 | |
| 01665 | 0020 | 00 | 0 | 01713 | TRA L6 | |

SET CONSTANTS FOR 8K STORAGE

| | | | | | | |
|-------|------|----|---|-------|------------|-----------------|
| 01666 | 0500 | 00 | 0 | 06706 | L4 CLA L5D | L +014000014000 |
| 01667 | 0622 | 00 | 0 | 06673 | STD K7D | L 14000 |
| 01670 | 0402 | 00 | 0 | 06700 | SUB K14D | L 000001000000 |
| 01671 | 0622 | 00 | 0 | 06675 | STD K10D | L 13777 |
| 01672 | 0402 | 00 | 0 | 06700 | SUB K14D | L 000001000000 |
| 01673 | 0622 | 00 | 0 | 06676 | STD K11D | L 13776 |
| 01674 | 0500 | 00 | 0 | 06705 | CLA K22D | L 30000 |
| 01675 | 0400 | 00 | 0 | 06705 | ADD K22D | L 30000 |
| 01676 | 0621 | 00 | 0 | 06731 | STA Z | |
| 01677 | 0621 | 00 | 0 | 06730 | STA Y | |
| 01700 | 0767 | 00 | 0 | 00022 | ALS 18 | |
| 01701 | 0622 | 00 | 0 | 06727 | STD X | |
| 01702 | 0622 | 00 | 0 | 06726 | STD W | |
| 01703 | 0500 | 00 | 0 | 06634 | CLA K0+4 | L -317777717777 |
| 01704 | 0601 | 00 | 0 | 06635 | STO K0+5 | |
| 01705 | 0500 | 00 | 0 | 06642 | CLA K2+1 | L 15253000000 |

| | | | | | | |
|----------------------|------|----|---|-------|-------------|-------------------------------------|
| 01706 | 0601 | 00 | 0 | 06637 | STO K0+7 | |
| 01707 | 0500 | 00 | 0 | 06644 | CLA K3+1 | L 12526000000 |
| 01710 | 0601 | 00 | 0 | 06640 | STO K0+8 | |
| 01711 | 0500 | 00 | 0 | 06611 | CLA L1+8 | L 77777 |
| 01712 | 0771 | 00 | 0 | 00002 | ARS 2 | |
| 01713 | 0601 | 00 | 0 | 06605 | L6 STO L1+4 | |
| 01714 | 0767 | 00 | 0 | 00022 | ALS 18 | |
| 01715 | 0601 | 00 | 0 | 06674 | STO K8D | |
| 01716 | 0771 | 00 | 0 | 00022 | ARS 18 | |
| 01717 | 0621 | 00 | 0 | 02640 | STA J7 | |
| 01720 | 0621 | 00 | 0 | 04015 | STA J7B | |
| 01721 | 0621 | 00 | 0 | 05171 | STA J7C | |
| 01722 | 0402 | 00 | 0 | 06606 | SUB L1+5 | L1 |
| 01723 | 0601 | 00 | 0 | 06607 | STO L1+6 | |
| | | | | | | |
| 01724 | 0400 | 00 | 0 | 06614 | ADD L1+11 | L 2 |
| 01725 | 0601 | 00 | 0 | 06610 | STO L1+7 | 100000, 40000, 30000, 20000 |
| | | | | | | |
| 01726 | 0402 | 00 | 0 | 06617 | SUB L1+14 | L G1+1 |
| 01727 | 0767 | 00 | 0 | 00022 | ALS 18 | |
| 01730 | 0601 | 00 | 0 | 06604 | STO L1+3 | LOAD IS DEPENDENT ON SIZE OF STG |
| | | | | | | |
| 01731 | 0500 | 00 | 0 | 06610 | CLA L1+7 | |
| 01732 | 0402 | 00 | 0 | 06625 | SUB M+4 | L M+4 |
| 01733 | 0767 | 00 | 0 | 00022 | ALS 18 | |
| 01734 | 0601 | 00 | 0 | 06624 | STO M+3 | |
| | | | | | | |
| ADJUST XRB CONSTANTS | | | | | | |
| | | | | | | |
| 01735 | 0500 | 00 | 0 | 06610 | CLA L1+7 | |
| 01736 | 0402 | 00 | 0 | 06647 | SUB S2B | L G1B+1 |
| 01737 | 0767 | 00 | 0 | 00022 | ALS 18 | |
| 01740 | 0601 | 00 | 0 | 06646 | STO S1B | LOAD DEPENDS ON SIZE OF STG |
| | | | | | | |
| 01741 | 0500 | 00 | 0 | 06610 | CLA L1+7 | |
| 01742 | 0402 | 00 | 0 | 06652 | SUB S5B | L HTR M3B |
| 01743 | 0767 | 00 | 0 | 00022 | ALS 18 | |
| 01744 | 0601 | 00 | 0 | 06651 | STO S4B | |
| | | | | | | |
| ADJUST XRC CONSTANTS | | | | | | |
| | | | | | | |
| 01745 | 0500 | 00 | 0 | 06610 | CLA L1+7 | |
| 01746 | 0402 | 00 | 0 | 06657 | SUB S2C | L G1C+1 |
| 01747 | 0767 | 00 | 0 | 00022 | ALS 18 | |
| 01750 | 0601 | 00 | 0 | 06656 | STO S1C | LOAD DEPENDS ON SIZE OF STG |
| | | | | | | |
| 01751 | 0500 | 00 | 0 | 06610 | CLA L1+7 | |
| 01752 | 0402 | 00 | 0 | 06662 | SUB S5C | L M3C |
| 01753 | 0767 | 00 | 0 | 00022 | ALS 18 | |
| 01754 | 0601 | 00 | 0 | 06661 | STO S4C | |

ADJUST MULTIPLE TAG CONSTANTS

| | | | | | | | |
|-------|------|----|---|-------|----------|---|-------------------------|
| 01755 | 0500 | 00 | 0 | 06673 | CLA K7D | L | DEPENDS ON SIZE OF STG. |
| 01756 | 0402 | 00 | 0 | 06700 | SUB K14D | L | 000001000000 |
| 01757 | 0622 | 00 | 0 | 06675 | STD K10D | L | DEPENDS ON SIZE OF STG. |
| 01760 | 0402 | 00 | 0 | 06700 | SUB K14D | L | 000001000000 |
| 01761 | 0622 | 00 | 0 | 06676 | STD K11D | L | DEPENDS ON SIZE OF STG. |
| 01762 | 0402 | 00 | 0 | 06732 | SUB CAA | L | 546000000 |
| 01763 | 0622 | 00 | 0 | 06677 | STD K12D | | |

COMMENCE TEST

TEST XRA

* TEST THAT NO INDEX TAG LEAVE ADDR UNALTERED

| | | | | | | | | |
|-------|------|----|---|-------|----|----------|---|----------------------|
| 01764 | 0500 | 00 | 0 | 02010 | L5 | CLA L9+1 | L | PXD 0,1 |
| 01765 | 0402 | 00 | 0 | 02051 | | SUB A1+2 | L | PXD 0,1 |
| 01766 | 0100 | 00 | 0 | 01771 | | TZE L7-3 | | |
| 01767 | 0760 | 00 | 0 | 00162 | | SWT 2 | | ERROR-TEST SWITCH 2 |
| 01770 | 0000 | 00 | 0 | 01771 | | HTR L7-3 | | |
| 01771 | 0760 | 00 | 0 | 00161 | | SWT 1 | | |
| 01772 | 0020 | 00 | 0 | 01774 | | TRA L7 | | PROCEED TO NEXT TEST |
| 01773 | 0020 | 00 | 0 | 01764 | | TRA L5 | | REPEAT TEST |

TEST THAT XR IS RESET TO ZERO IF ADR
ARE BEING MODIFIED

| | | | | | | | | |
|-------|------|----|---|-------|----|----------|---|----------------------|
| 01774 | 0761 | 00 | 0 | 00000 | L7 | NOP | | |
| 01775 | 0534 | 00 | 1 | 06601 | L8 | LXA L1,1 | L | 0 |
| 01776 | 0500 | 00 | 0 | 01774 | | CLA L7 | L | NOP |
| 01777 | 0402 | 00 | 1 | 01774 | | SUB L7,1 | | |
| 02000 | 0100 | 00 | 0 | 02003 | | TZE L9-4 | | |
| 02001 | 0760 | 00 | 0 | 00162 | | SWT 2 | | ERROR-TEST SWITCH 2 |
| 02002 | 0000 | 00 | 0 | 02003 | | HTR L9-4 | | |
| 02003 | 0760 | 00 | 0 | 00161 | | SWT 1 | | |
| 02004 | 0020 | 00 | 0 | 02006 | | TRA L9-1 | | PROCEED TO NEXT TEST |
| 02005 | 0020 | 00 | 0 | 01775 | | TRA L8 | | REPEAT TEST |

TEST PLACE XR A IN DECR

| | | | | | | | | |
|-------|-------|----|---|-------|----|-----------|---|---------------------|
| 02006 | 0534 | 00 | 1 | 06601 | | LXA L1,1 | L | 0 |
| 02007 | 0500 | 00 | 0 | 01764 | L9 | CLA L5 | L | 0500000000307 |
| 02010 | -0754 | 00 | 1 | 00000 | | PXD 0,1 | | |
| 02011 | 0100 | 00 | 0 | 02014 | | TZE L12-4 | | |
| 02012 | 0760 | 00 | 0 | 00162 | | SWT 2 | | ERROR-TEST SWITCH 2 |
| 02013 | 0000 | 00 | 0 | 02014 | | HTR L12-4 | | |
| 02014 | 0760 | 00 | 0 | 00161 | | SWT 1 | | |
| 02015 | 0020 | 00 | 0 | 02017 | | TRA L12-1 | | NEXT SECTION |
| 02016 | 0020 | 00 | 0 | 02006 | | TRA L9-1 | | REPEAT TEST |

TEST-XRA, PXD AND COMP.

| | | | | | | | | |
|-------|------|----|---|-------|--|------------|---|------|
| 02017 | 0534 | 00 | 1 | 06632 | | LXA K0+2,1 | L | 7777 |
|-------|------|----|---|-------|--|------------|---|------|

| | | | | | | | | |
|-------|-------|----|---|-------|-----|-----|-------|---------------------------|
| 02020 | 0500 | 00 | 0 | 06632 | L12 | CLA | K0+2 | |
| 02021 | -0754 | 00 | 1 | 00000 | | PXD | 0,1 | |
| 02022 | 0760 | 00 | 0 | 00006 | | COM | | |
| 02023 | -0763 | 00 | 0 | 00002 | | LGL | 2 | TO ELIMINATE P AND Q BITS |
| 02024 | -0765 | 00 | 0 | 00002 | | LGR | 2 | |
| 02025 | 0140 | 00 | 0 | 02026 | | TOV | *+1 | TURN OFF OVERFLOW LIGHT |
| 02026 | 0600 | 00 | 0 | 06623 | | STZ | M+2 | CLEAR TEMP. STORAGE |
| 02027 | 0622 | 00 | 0 | 06623 | | STD | M+2 | |
| 02030 | 0402 | 00 | 0 | 06726 | | SUB | W | L 370000777777 |
| 02031 | 0100 | 00 | 0 | 02034 | | TZE | L11-3 | OK-TEST SWITCH 1 |
| 02032 | 0760 | 00 | 0 | 00162 | | SWT | 2 | ERROR-TEST SWITCH 2 |
| 02033 | 0000 | 00 | 0 | 02034 | | HTR | L11-3 | HALT ON ERROR |
| 02034 | 0760 | 00 | 0 | 00161 | | SWT | 1 | |
| 02035 | 0020 | 00 | 0 | 02037 | | TRA | L11 | NEXT SECTION |
| 02036 | 0020 | 00 | 0 | 02017 | | TRA | L12-1 | REPEAT |

TEST-STD AFTER PXD COMP.

| | | | | | | | | |
|-------|------|----|---|-------|-----|-----|-------|---------------------|
| 02037 | 0500 | 00 | 0 | 06623 | L11 | CLA | M+2 | RESULTS STD |
| 02040 | 0402 | 00 | 0 | 06727 | | SUB | X | TEST STD |
| 02041 | 0100 | 00 | 0 | 02044 | | TZE | L11+5 | OK-TEST SWITCH 1 |
| 02042 | 0760 | 00 | 0 | 00162 | | SWT | 2 | ERROR-TEST SWITCH 2 |
| 02043 | 0000 | 00 | 0 | 02044 | | HTR | L11+5 | HALT ON ERROR |
| 02044 | 0760 | 00 | 0 | 00161 | | SWT | 1 | |
| 02045 | 0020 | 00 | 0 | 02047 | | TRA | A1 | NEXT SECTION |
| 02046 | 0020 | 00 | 0 | 02017 | | TRA | L12-1 | REPEAT SECTION |

TEST LXD AND PXD WITH XR A

| | | | | | | | | |
|-------|-------|----|---|-------|----|-----|------|----------------------|
| 02047 | 0500 | 00 | 0 | 01764 | A1 | CLA | L5 | L 05000000307 |
| 02050 | -0534 | 00 | 1 | 06601 | | LXD | L1,1 | LOAD XR A WITH 1 |
| 02051 | -0754 | 00 | 1 | 00000 | | PXD | 0,1 | |
| 02052 | 0402 | 00 | 0 | 06601 | | SUB | L1 | L DECR OF 1 |
| 02053 | 0100 | 00 | 0 | 02056 | | TZE | A2-3 | |
| 02054 | 0760 | 00 | 0 | 00162 | | SWT | 2 | ERROR-TEST SWITCH 2 |
| 02055 | 0000 | 00 | 0 | 02056 | | HTR | A2-3 | |
| 02056 | 0760 | 00 | 0 | 00161 | | SWT | 1 | |
| 02057 | 0020 | 00 | 0 | 02061 | | TRA | A2 | PROCEED TO NEXT TEST |
| 02060 | 0020 | 00 | 0 | 02047 | | TRA | A1 | REPEAT TEST |

TEST LXD AND PXD WITH XR A

| | | | | | | | | |
|-------|-------|----|---|-------|----|-----|--------|----------------------|
| 02061 | 0500 | 00 | 0 | 01764 | A2 | CLA | L5 | L 05000000307 |
| 02062 | -0534 | 00 | 1 | 06602 | | LXD | L1+1,1 | LOAD XRA WITH 2 |
| 02063 | -0754 | 00 | 1 | 00000 | | PXD | 0,1 | |
| 02064 | 0402 | 00 | 0 | 06602 | | SUB | L1+1 | L DECR OF 2 |
| 02065 | 0100 | 00 | 0 | 02070 | | TZE | A3-3 | |
| 02066 | 0760 | 00 | 0 | 00162 | | SWT | 2 | ERROR-TEST SWITCH 2 |
| 02067 | 0000 | 00 | 0 | 02070 | | HTR | A3-3 | |
| 02070 | 0760 | 00 | 0 | 00161 | | SWT | 1 | |
| 02071 | 0020 | 00 | 0 | 02073 | | TRA | A3 | PROCEED TO NEXT TEST |
| 02072 | 0020 | 00 | 0 | 02061 | | TRA | A2 | REPEAT TEST |

TEST ADR MODIFICATION USING XR A

| | | | | | | | |
|--------------------|---------|----|---|-------|----|------------|------------------------------------|
| 02073 | -0534 | 00 | 1 | 06601 | A3 | LXD L1,1 | L 1 |
| 02074 | 0500 | 00 | 1 | 02074 | A4 | CLA A4,1 | L A3 |
| 02075 | 0402 | 00 | 0 | 02073 | | SUB A3 | |
| 02076 | 0100 | 00 | 0 | 02101 | | TZE A5-3 | |
| 02077 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02100 | 0000 | 00 | 0 | 02101 | | HTR A5-3 | |
| 02101 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02102 | 0020 | 00 | 0 | 02104 | | TRA A5 | |
| 02103 | 0020 | 00 | 0 | 02073 | | TRA A3 | REPEAT TEST |
| | | | | | | | |
| 02104 | -0754 | 00 | 1 | 00000 | A5 | PXD 0,1 | TEST CONTENT OF XRA |
| | | | | | | | |
| 02105 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 02106 | 0100 | 00 | 0 | 02111 | | TZE A6-3 | |
| 02107 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02110 | 0000 | 00 | 0 | 02111 | | HTR A6-3 | |
| 02111 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02112 | 0020 | 00 | 0 | 02114 | | TRA A6 | PROCEED TO NEXT TEST |
| 02113 | 0020 | 00 | 0 | 02073 | | TRA A3 | REPEAT TEST |
| | | | | | | | |
| TEST TXI WITH XR A | | | | | | | |
| | | | | | | | |
| 02114 | -0534 | 00 | 1 | 06601 | A6 | LXD L1,1 | L 1 |
| 02115 | 1 00001 | 1 | 1 | 02124 | | TXI A9,1,1 | |
| 02116 | 0020 | 00 | 0 | 02117 | | TRA A8-2 | |
| 02117 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02120 | 0000 | 00 | 0 | 02121 | | HTR A8 | |
| 02121 | 0760 | 00 | 0 | 00161 | A8 | SWT 1 | |
| 02122 | 0020 | 00 | 0 | 02124 | | TRA A9 | |
| 02123 | 0020 | 00 | 0 | 02114 | | TRA A6 | REPEAT TEST |
| | | | | | | | |
| 02124 | -0754 | 00 | 1 | 00000 | A9 | PXD 0,1 | |
| 02125 | 0402 | 00 | 0 | 06602 | | SUB L1+1 | L 2 IN DECR |
| 02126 | 0100 | 00 | 0 | 02131 | | TZE B1-3 | |
| 02127 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02130 | 0000 | 00 | 0 | 02131 | | HTR B1-3 | |
| 02131 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02132 | 0020 | 00 | 0 | 02134 | | TRA B1 | PROCEED TO NEXT TEST |
| 02133 | 0020 | 00 | 0 | 02124 | | TRA A9 | REPEAT TEST |
| | | | | | | | |
| TEST SXD WITH XR A | | | | | | | |
| | | | | | | | |
| 02134 | -0534 | 00 | 1 | 02156 | B1 | LXD B2,1 | L DECR 2 |
| 02135 | -0634 | 00 | 1 | 02155 | | SXD B3,1 | |
| 02136 | 0500 | 00 | 0 | 02155 | | CLA B3 | |
| 02137 | 0402 | 00 | 0 | 02156 | | SUB B2 | |
| 02140 | 0100 | 00 | 0 | 02146 | | TZE B4 | |
| 02141 | 0500 | 00 | 0 | 02154 | | CLA B5 | TEST IF SXD IS BEING INDEXED |
| | | | | | | | |
| 02142 | 0402 | 00 | 0 | 02156 | | SUB B2 | |
| 02143 | -0100 | 00 | 0 | 02144 | | TNZ B6 | |
| 02144 | 0760 | 00 | 0 | 00162 | B6 | SWT 2 | ERROR-TEST SWITCH 2 |

| | | | | | | | |
|-------|------|-------|---|-------|----|------------|-----------------------------|
| 02145 | 0000 | 00 | 0 | 02146 | | HTR B4 | CHECK ACC FOR TYPE OF ERROR |
| 02146 | 0500 | 00 | 0 | 06603 | B4 | CLA L1+2 | RESET TEMP. STG. |
| 02147 | 0601 | 00 | 0 | 02154 | | STO B5 | |
| 02150 | 0601 | 00 | 0 | 02155 | | STO B3 | |
| 02151 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02152 | 0020 | 00 | 0 | 02157 | | TRA B7 | PROCEED TO NEXT TEST |
| 02153 | 0020 | 00 | 0 | 02134 | | TRA B1 | REPEAT TEST |
| 02154 | 1 | 00014 | 1 | 00002 | B5 | TXI 2,1,12 | CONSTANTS |
| 02155 | 1 | 00014 | 1 | 00002 | B3 | TXI 2,1,12 | |
| 02156 | 1 | 00002 | 1 | 00002 | B2 | TXI 2,1,2 | |

TEST PDX WITH XR A

| | | | | | | | |
|-------|-------|----|---|-------|----|----------|----------------------|
| 02157 | -0534 | 00 | 1 | 06601 | B7 | LXD L1,1 | L1 |
| 02160 | 0760 | 00 | 0 | 00000 | | CLM | |
| 02161 | -0734 | 00 | 1 | 00000 | | PDX 0,1 | |
| 02162 | -0754 | 00 | 1 | 00000 | | PXD 0,1 | |
| 02163 | 0100 | 00 | 0 | 02166 | | TZE B8-3 | |
| 02164 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02165 | 0000 | 00 | 0 | 02166 | | HTR B8-3 | |
| 02166 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02167 | 0020 | 00 | 0 | 02171 | | TRA B8 | PROCEED TO NEXT TEST |
| 02170 | 0020 | 00 | 0 | 02157 | | TRA B7 | REPEAT TEST |

TEST LXA WITH XRA

| | | | | | | | |
|-------|-------|----|---|-------|----|------------|----------------------|
| 02171 | 0760 | 00 | 0 | 00000 | B8 | CLM | |
| 02172 | -0734 | 00 | 1 | 00000 | | PDX 0,1 | RESET XR A |
| 02173 | 0534 | 00 | 1 | 06603 | | LXA L1+2,1 | L2 |
| 02174 | -0754 | 00 | 1 | 00000 | | PXD 0,1 | |
| 02175 | 0402 | 00 | 0 | 06602 | | SUB L1+1 | L2 IN DECR |
| 02176 | 0100 | 00 | 0 | 02201 | | TZE B9-3 | |
| 02177 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02200 | 0000 | 00 | 0 | 02201 | | HTR B9-3 | |
| 02201 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02202 | 0020 | 00 | 0 | 02204 | | TRA B9 | PROCEED TO NEXT TEST |
| 02203 | 0020 | 00 | 0 | 02171 | | TRA B8 | REPEAT TEST |

TEST PAX WITH XR A

| | | | | | | | |
|-------|-------|----|---|-------|----|----------|----------------------|
| 02204 | 0500 | 00 | 0 | 06603 | B9 | CLA L1+2 | L 2 IN ADDR |
| 02205 | -0534 | 00 | 1 | 06601 | | LXD L1,1 | L 1 |
| 02206 | 0734 | 00 | 1 | 00000 | | PAX 0,1 | |
| 02207 | -0754 | 00 | 1 | 00000 | | PXD 0,1 | |
| 02210 | 0402 | 00 | 0 | 06602 | | SUB L1+1 | L 2 IN DECR |
| 02211 | 0100 | 00 | 0 | 02214 | | TZE C1-3 | |
| 02212 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02213 | 0000 | 00 | 0 | 02214 | | HTR C1-3 | |
| 02214 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02215 | 0020 | 00 | 0 | 02217 | | TRA C1 | PROCEED TO NEXT TEST |
| 02216 | 0020 | 00 | 0 | 02204 | | TRA B9 | REPEAT TEST |

TEST TXH WHEN XRA IS LOW

| | | | | | | | |
|-------------------------------|-------|-------|---|-------|----|--------------|----------------------|
| 02217 | -0534 | 00 | 1 | 06601 | C1 | LXD L1,1 | L 1 |
| 02220 | 3 | 00002 | 1 | 02222 | | TXH C2-2,1,2 | |
| 02221 | 0020 | 00 | 0 | 02227 | | TRA C3 | |
| 02222 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02223 | 0000 | 00 | 0 | 02224 | | HTR C2 | |
| 02224 | 0760 | 00 | 0 | 00161 | C2 | SWT 1 | |
| 02225 | 0020 | 00 | 0 | 02227 | | TRA C3 | |
| 02226 | 0020 | 00 | 0 | 02217 | | TRA C1 | REPEAT TEST |
| | | | | | | | |
| 02227 | -0754 | 00 | 1 | 00000 | C3 | PXD 0,1 | TEST XR A |
| 02230 | 0402 | 00 | 0 | 06601 | | SUB L1 | |
| 02231 | 0100 | 00 | 0 | 02234 | | TZE C4-3 | |
| 02232 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02233 | 0000 | 00 | 0 | 02234 | | HTR C4-3 | |
| 02234 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02235 | 0020 | 00 | 0 | 02237 | | TRA C4 | PROCEED TO NEXT TEST |
| 02236 | 0020 | 00 | 0 | 02227 | | TRA C3 | REPEAT TEST |
| | | | | | | | |
| TEST TXH WHEN XR + DECR EQUAL | | | | | | | |
| | | | | | | | |
| 02237 | -0534 | 00 | 1 | 06601 | C4 | LXD L1,1 | L 1 |
| 02240 | 3 | 00001 | 1 | 02242 | | TXH C5-2,1,1 | |
| 02241 | 0020 | 00 | 0 | 02247 | | TRA C6 | |
| 02242 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02243 | 0000 | 00 | 0 | 02244 | | HTR C5 | |
| 02244 | 0760 | 00 | 0 | 00161 | C5 | SWT 1 | |
| 02245 | 0020 | 00 | 0 | 02247 | | TRA C6 | |
| 02246 | 0020 | 00 | 0 | 02237 | | TRA C4 | REPEAT TEST |
| | | | | | | | |
| 02247 | -0754 | 00 | 1 | 00000 | C6 | PXD 0,1 | TEST XR |
| 02250 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 02251 | 0100 | 00 | 0 | 02254 | | TZE C7-3 | |
| 02252 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02253 | 0000 | 00 | 0 | 02254 | | HTR C7-3 | |
| 02254 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02255 | 0020 | 00 | 0 | 02257 | | TRA C7 | PROCEED TO NEXT TEST |
| 02256 | 0020 | 00 | 0 | 02247 | | TRA C6 | REPEAT TEST |
| | | | | | | | |
| TEST TXH WHEN XR IS HIGH | | | | | | | |
| | | | | | | | |
| 02257 | -0534 | 00 | 1 | 06601 | C7 | LXD L1,1 | L 1 |
| 02260 | 3 | 00000 | 1 | 02266 | | TXH C8,1 | |
| 02261 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02262 | 0000 | 00 | 0 | 02263 | | HTR C9 | |
| 02263 | 0760 | 00 | 0 | 00161 | C9 | SWT 1 | |
| 02264 | 0020 | 00 | 0 | 02266 | | TRA C8 | |
| 02265 | 0020 | 00 | 0 | 02257 | | TRA C7 | REPEAT TEST |
| | | | | | | | |
| 02266 | -0754 | 00 | 1 | 00000 | C8 | PXD 0,1 | TEST XR |
| 02267 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 02270 | 0100 | 00 | 0 | 02273 | | TZE D1-3 | |
| 02271 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02272 | 0000 | 00 | 0 | 02273 | | HTR D1-3 | |
| 02273 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02274 | 0020 | 00 | 0 | 02276 | | TRA D1 | PROCEED TO NEXT TEST |

| | | | | | | | |
|------------------------------|-------|-------|---|-------|----|------------|-------------------------|
| 02275 | 0020 | 00 | 0 | 02266 | | TRA C8 | REPEAT TEST |
| TEST TXL WHEN XR IS HIGH | | | | | | | |
| 02276 | -0534 | 00 | 1 | 06601 | D1 | LXD L1,1 | L 1 |
| 02277 | -3 | 00000 | 1 | 02301 | | TXL D2-2,1 | |
| 02300 | 0020 | 00 | 0 | 02306 | | TRA D3 | |
| 02301 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02302 | 0000 | 00 | 0 | 02303 | | HTR D2 | |
| 02303 | 0760 | 00 | 0 | 00161 | D2 | SWT 1 | |
| 02304 | 0020 | 00 | 0 | 02306 | | TRA D3 | |
| 02305 | 0020 | 00 | 0 | 02276 | | TRA D1 | REPEAT TEST |
| TEST TXL WHEN XR EQUALS DECR | | | | | | | |
| 02306 | -0754 | 00 | 1 | 00000 | D3 | PXD 0,1 | TEST XR |
| 02307 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 02310 | 0100 | 00 | 0 | 02313 | | TZE D4-3 | |
| 02311 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02312 | 0000 | 00 | 0 | 02313 | | HTR D4-3 | |
| 02313 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02314 | 0020 | 00 | 0 | 02316 | | TRA D4 | PROCEED TO NEXT TEST |
| 02315 | 0020 | 00 | 0 | 02306 | | TRA D3 | REPEAT TEST |
| TEST TXL WHEN XR IS LOW | | | | | | | |
| 02316 | -0534 | 00 | 1 | 06601 | D4 | LXD L1,1 | L 1 |
| 02317 | -3 | 00001 | 1 | 02325 | | TXL D5,1,1 | |
| 02320 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02321 | 0000 | 00 | 0 | 02322 | | HTR D6 | |
| 02322 | 0760 | 00 | 0 | 00161 | D6 | SWT 1 | |
| 02323 | 0020 | 00 | 0 | 02325 | | TRA D5 | |
| 02324 | 0020 | 00 | 0 | 02316 | | TRA D4 | REPEAT TEST MODIFIED |
| 02325 | -0754 | 00 | 1 | 00000 | D5 | PXD 0,1 | TEST XR A |
| 02326 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 02327 | 0100 | 00 | 0 | 02332 | | TZE D7-3 | |
| 02330 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02331 | 0000 | 00 | 0 | 02332 | | HTR D7-3 | |
| 02332 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02333 | 0020 | 00 | 0 | 02335 | | TRA D7 | PROCEED TO NEXT TEST |
| 02334 | 0020 | 00 | 0 | 02325 | | TRA D5 | REPEAT TEST |
| TEST TXL WHEN XR IS HIGH | | | | | | | |
| 02335 | -0534 | 00 | 1 | 06601 | D7 | LXD L1,1 | L 1 |
| 02336 | -3 | 00002 | 1 | 02344 | | TXL D8,1,2 | |
| 02337 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02340 | 0000 | 00 | 0 | 02341 | | HTR D9 | |
| 02341 | 0760 | 00 | 0 | 00161 | D9 | SWT 1 | |
| 02342 | 0020 | 00 | 0 | 02344 | | TRA D8 | |
| 02343 | 0020 | 00 | 0 | 02335 | | TRA D7 | REPEAT TEST |
| TEST TXL WHEN XR IS LOW | | | | | | | |
| 02344 | -0754 | 00 | 1 | 00000 | D8 | PXD 0,1 | TEST XR A |
| 02345 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 02346 | 0100 | 00 | 0 | 02351 | | TZE E1-3 | |
| 02347 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |

| | | | | | | | |
|-------|------|----|---|-------|-----|------|----------------------|
| 02350 | 0000 | 00 | 0 | 02351 | HTR | E1-3 | |
| 02351 | 0760 | 00 | 0 | 00161 | SWT | 1 | |
| 02352 | 0020 | 00 | 0 | 02354 | TRA | E1 | PROCEED TO NEXT TEST |
| 02353 | 0020 | 00 | 0 | 02344 | TRA | D8 | REPEAT TEST |

TEST TIX XR GREATER THEN DECR

| | | | | | | | | |
|-------|-------|-------|---|-------|-----|-----|---------------------|-----|
| 02354 | -0534 | 00 | 1 | 06602 | E1 | LXD | L1+1,1 | L 2 |
| 02355 | 2 | 00001 | 1 | 02363 | | TIX | E2,1,1 | |
| 02356 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 | |
| 02357 | 0000 | 00 | 0 | 02360 | HTR | E4 | | |
| 02360 | 0760 | 00 | 0 | 00161 | E4 | SWT | 1 | |
| 02361 | 0020 | 00 | 0 | 02363 | TRA | E2 | | |
| 02362 | 0020 | 00 | 0 | 02354 | TRA | E1 | REPEAT TEST | |

| | | | | | | | | |
|-------|-------|----|---|-------|-----|------|----------------------|-----------|
| 02363 | -0754 | 00 | 1 | 00000 | E2 | PXD | 0,1 | TEST XR A |
| 02364 | 0402 | 00 | 0 | 06601 | SUB | L1 | L 1 IN DECR | |
| 02365 | 0100 | 00 | 0 | 02370 | TZE | E5-3 | | |
| 02366 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 | |
| 02367 | 0000 | 00 | 0 | 02370 | HTR | E5-3 | | |
| 02370 | 0760 | 00 | 0 | 00161 | SWT | 1 | | |
| 02371 | 0020 | 00 | 0 | 02373 | TRA | E5 | PROCEED TO NEXT TEST | |
| 02372 | 0020 | 00 | 0 | 02363 | TRA | E2 | REPEAT TEST | |

TEST TIX XR EQUALS DECR

| | | | | | | | | |
|-------|-------|-------|---|-------|-----|-----|---------------------|----|
| 02373 | -0534 | 00 | 1 | 06602 | E5 | LXD | L1+1,1 | L2 |
| 02374 | 2 | 00002 | 1 | 02376 | | TIX | E6-2,1,2 | |
| 02375 | 0020 | 00 | 0 | 02403 | TRA | E7 | | |
| 02376 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 | |
| 02377 | 0000 | 00 | 0 | 02400 | HTR | E6 | | |
| 02400 | 0760 | 00 | 0 | 00161 | E6 | SWT | 1 | |
| 02401 | 0020 | 00 | 0 | 02403 | TRA | E7 | | |
| 02402 | 0020 | 00 | 0 | 02373 | TRA | E5 | REPEAT TEST | |

| | | | | | | | | |
|-------|-------|----|---|-------|-----|------|----------------------|-----------|
| 02403 | -0754 | 00 | 1 | 00000 | E7 | PXD | 0,1 | TEST XR A |
| 02404 | 0402 | 00 | 0 | 06602 | SUB | L1+1 | L 2 IN DECR | |
| 02405 | 0100 | 00 | 0 | 02410 | TZE | E8-3 | | |
| 02406 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 | |
| 02407 | 0000 | 00 | 0 | 02410 | HTR | E8-3 | | |
| 02410 | 0760 | 00 | 0 | 00161 | SWT | 1 | | |
| 02411 | 0020 | 00 | 0 | 02413 | TRA | E8 | PROCEED TO NEXT TEST | |
| 02412 | 0020 | 00 | 0 | 02403 | TRA | E7 | REPEAT TEST | |

TEST TIX XR LESS THEN DECR

| | | | | | | | | |
|-------|-------|-------|---|-------|-----|-----|---------------------|-----|
| 02413 | -0534 | 00 | 1 | 06601 | E8 | LXD | L1,1 | L 1 |
| 02414 | 2 | 00002 | 1 | 02416 | | TIX | E9-2,1,2 | |
| 02415 | 0020 | 00 | 0 | 02423 | TRA | F1 | | |
| 02416 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 | |
| 02417 | 0000 | 00 | 0 | 02420 | HTR | E9 | | |
| 02420 | 0760 | 00 | 0 | 00161 | E9 | SWT | 1 | |
| 02421 | 0020 | 00 | 0 | 02423 | TRA | F1 | | |
| 02422 | 0020 | 00 | 0 | 02413 | TRA | E8 | REPEAT TEST | |

| | | | | | | | | |
|-------|-------|----|---|-------|----|-----|-----|-----------|
| 02423 | -0754 | 00 | 1 | 00000 | F1 | PXD | 0,1 | TEST XR A |
|-------|-------|----|---|-------|----|-----|-----|-----------|

| | | | | | | | |
|-------|------|----|---|-------|--|----------|----------------------|
| 02424 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 02425 | 0100 | 00 | 0 | 02430 | | TZE F2-3 | |
| 02426 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02427 | 0000 | 00 | 0 | 02430 | | HTR F2-3 | |
| 02430 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02431 | 0020 | 00 | 0 | 02433 | | TRA F2 | PROCEED TO NEXT TEST |
| 02432 | 0020 | 00 | 0 | 02423 | | TRA F1 | REPEAT TEST |

TEST TNX XR LESS THAN DECR

| | | | | | | | |
|-------|-------|-------|---|-------|----|------------|---------------------|
| 02433 | -0534 | 00 | 1 | 06601 | F2 | LXD L1,1 | L 1 |
| 02434 | -2 | 00002 | 1 | 02442 | | TNX F3,1,2 | |
| 02435 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02436 | 0000 | 00 | 0 | 02437 | | HTR F2+4 | |
| 02437 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02440 | 0020 | 00 | 0 | 02442 | | TRA F3 | |
| 02441 | 0020 | 00 | 0 | 02433 | | TRA F2 | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|----|----------|----------------------|
| 02442 | -0754 | 00 | 1 | 00000 | F3 | PXD 0,1 | |
| 02443 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 02444 | 0100 | 00 | 0 | 02447 | | TZE F4-3 | |
| 02445 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02446 | 0000 | 00 | 0 | 02447 | | HTR F4-3 | |
| 02447 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02450 | 0020 | 00 | 0 | 02452 | | TRA F4 | PROCEED TO NEXT TEST |
| 02451 | 0020 | 00 | 0 | 02442 | | TRA F3 | REPEAT TEST |

TEST TNX XR EQUALS DECR

| | | | | | | | |
|-------|-------|-------|---|-------|----|------------|---------------------|
| 02452 | -0534 | 00 | 1 | 06601 | F4 | LXD L1,1 | L 1 |
| 02453 | -2 | 00001 | 1 | 02461 | | TNX F5,1,1 | |
| 02454 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02455 | 0000 | 00 | 0 | 02456 | | HTR F6 | |
| 02456 | 0760 | 00 | 0 | 00161 | F6 | SWT 1 | |
| 02457 | 0020 | 00 | 0 | 02461 | | TRA F5 | |
| 02460 | 0020 | 00 | 0 | 02452 | | TRA F4 | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|----|----------|----------------------|
| 02461 | -0754 | 00 | 1 | 00000 | F5 | PXD 0,1 | TEST XR A |
| 02462 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 02463 | 0100 | 00 | 0 | 02466 | | TZE F7-3 | |
| 02464 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02465 | 0000 | 00 | 0 | 02466 | | HTR F7-3 | |
| 02466 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02467 | 0020 | 00 | 0 | 02471 | | TRA F7 | PROCEED TO NEXT TEST |
| 02470 | 0020 | 00 | 0 | 02461 | | TRA F5 | REPEAT TEST |

TEST TNX XR GREATER THAN DECR

| | | | | | | | |
|-------|-------|-------|---|-------|----|--------------|---------------------|
| 02471 | -0534 | 00 | 1 | 06602 | F7 | LXD L1+1,1 | L 2 |
| 02472 | -2 | 00001 | 1 | 02474 | | TNX F8-2,1,1 | |
| 02473 | 0020 | 00 | 0 | 02501 | | TRA F9 | |
| 02474 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02475 | 0000 | 00 | 0 | 02476 | | HTR F8 | |
| 02476 | 0760 | 00 | 0 | 00161 | F8 | SWT 1 | |
| 02477 | 0020 | 00 | 0 | 02501 | | TRA F9 | |
| 02500 | 0020 | 00 | 0 | 02471 | | TRA F7 | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|----|----------|----------------------|
| 02501 | -0754 | 00 | 1 | 00000 | F9 | PXD 0,1 | TEST XR A |
| 02502 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 02503 | 0100 | 00 | 0 | 02506 | | TZE G1-3 | |
| 02504 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02505 | 0000 | 00 | 0 | 02506 | | HTR G1-3 | |
| 02506 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02507 | 0020 | 00 | 0 | 02511 | | TRA G1 | PROCEED TO NEXT TEST |
| 02510 | 0020 | 00 | 0 | 02501 | | TRA F9 | REPEAT TEST |

TEST TSX

| | | | | | | | |
|-------|------|----|---|-------|----|----------|---------------------|
| 02511 | 0534 | 00 | 1 | 02511 | G1 | LXA G1,1 | L OWN ADDRESS |
| 02512 | 0074 | 00 | 1 | 02520 | | TSX G2,1 | |
| 02513 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02514 | 0000 | 00 | 0 | 02515 | | HTR G3 | |
| 02515 | 0760 | 00 | 0 | 00161 | G3 | SWT 1 | |
| 02516 | 0020 | 00 | 0 | 02520 | | TRA G2 | |
| 02517 | 0020 | 00 | 0 | 02511 | | TRA G1 | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|----|----------|-----------------------------------|
| 02520 | -0754 | 00 | 1 | 00000 | G2 | PXD 0,1 | L COMP TSX LOCATION IN DECR |
| 02521 | 0402 | 00 | 0 | 06604 | | SUB L1+3 | L 007017000000 |
| 02522 | 0100 | 00 | 0 | 02525 | | TZE G4-3 | |
| 02523 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02524 | 0000 | 00 | 0 | 02525 | | HTR G4-3 | |
| 02525 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02526 | 0020 | 00 | 0 | 02530 | | TRA G4 | PROCEED TO NEXT TEST |
| 02527 | 0020 | 00 | 0 | 02511 | | TRA G1 | REPEAT TEST |

TEST TIX FOR COUNTING

| | | | | | | | |
|-------|---------|----|---|-------|----|--------------|---------------------|
| 02530 | 0534 | 00 | 1 | 06605 | G4 | LXA L1+4,1 | L 7777 |
| 02531 | 0500 | 00 | 0 | 06605 | | CLA L1+4 | L07777 |
| 02532 | 0760 | 00 | 0 | 00164 | | SWT 4 | |
| 02533 | 0020 | 00 | 0 | 02537 | | TRA G5 | |
| 02534 | 0760 | 00 | 0 | 00163 | | SWT 3 | |
| 02535 | 0020 | 00 | 0 | 02542 | | TRA G6 | |
| 02536 | 0020 | 00 | 0 | 02546 | | TRA G7 | |
| 02537 | 0402 | 00 | 0 | 06606 | G5 | SUB L1+5 | L 00001 |
| 02540 | 2 00001 | 1 | 1 | 02537 | | TIX G5,1,1 | |
| 02541 | 0020 | 00 | 0 | 02552 | | TRA G8 | |
| 02542 | 0402 | 00 | 0 | 06616 | G6 | SUB L1+13 | L 00100 |
| 02543 | 2 00100 | 1 | 1 | 02542 | | TIX G6,1,64 | |
| 02544 | 0400 | 00 | 0 | 06616 | | ADD L1+13 | L00100 |
| 02545 | 0020 | 00 | 0 | 02537 | | TRA G5 | |
| 02546 | 0402 | 00 | 0 | 06615 | G7 | SUB L1+12 | L 1000 |
| 02547 | 2 01000 | 1 | 1 | 02546 | | TIX G7,1,512 | |
| 02550 | 0400 | 00 | 0 | 06615 | | ADD L1+12 | L 1000 |
| 02551 | 0020 | 00 | 0 | 02542 | | TRA G6 | |
| 02552 | 0100 | 00 | 0 | 02555 | G8 | TZE G9-3 | TO NEXT TEST |
| 02553 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02554 | 0000 | 00 | 0 | 02555 | | HTR G9-3 | |

| | | | | | | | |
|-------|------|----|---|-------|--|--------|----------------------|
| 02555 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02556 | 0020 | 00 | 0 | 02560 | | TRA G9 | PROCEED TO NEXT TEST |
| 02557 | 0020 | 00 | 0 | 02530 | | TRA G4 | REPEAT TEST |

TEST TNX FOR COUNTING

| | | | | | | | |
|-------|------|-------|---|-------|----|--------------|--------------|
| 02560 | 0534 | 00 | 1 | 06605 | G9 | LXA L1+4,1 | L 7777 |
| 02561 | 0500 | 00 | 0 | 06607 | | CLA L1+6 | L 07776 |
| 02562 | 0760 | 00 | 0 | 00164 | | SWT 4 | |
| 02563 | 0020 | 00 | 0 | 02567 | | TRA H1 | |
| 02564 | 0760 | 00 | 0 | 00163 | | SWT 3 | |
| 02565 | 0020 | 00 | 0 | 02572 | | TRA H2 | |
| 02566 | 0020 | 00 | 0 | 02575 | | TRA H3 | |
| 02567 | -2 | 00001 | 1 | 02600 | H1 | TNX H5,1,1 | |
| 02570 | 0402 | 00 | 0 | 06606 | | SUB L1+5 | L00001 |
| 02571 | 0020 | 00 | 0 | 02567 | | TRA H1 | |
| 02572 | -2 | 00100 | 1 | 02567 | H2 | TNX H1,1,64 | |
| 02573 | 0402 | 00 | 0 | 06616 | | SUB L1+13 | L00100 |
| 02574 | 0020 | 00 | 0 | 02572 | | TRA H2 | |
| 02575 | -2 | 01000 | 1 | 02572 | H3 | TNX H2,1,512 | |
| 02576 | 0402 | 00 | 0 | 06615 | | SUB L1+12 | L 1000 |
| 02577 | 0020 | 00 | 0 | 02575 | H4 | TRA H3 | |
| 02600 | 0100 | 00 | 0 | 02603 | H5 | TZE H6-3 | TO NEXT TEST |

| | | | | | | | |
|-------|------|----|---|-------|--|----------|----------------------|
| 02601 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02602 | 0000 | 00 | 0 | 02603 | | HTR H6-3 | |
| 02603 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02604 | 0020 | 00 | 0 | 02606 | | TRA H6 | PROCEED TO NEXT TEST |
| 02605 | 0020 | 00 | 0 | 02560 | | TRA G9 | REPEAT TEST |

TEST TXI FOR COUNTING

| | | | | | | | |
|-------|-------|-------|---|-------|----|---------------|---------------------------|
| 02606 | 0534 | 00 | 1 | 06612 | H6 | LXA L1+9,1 | L 00000 |
| 02607 | 0500 | 00 | 0 | 06610 | | CLA L1+7 | L DEPENDS ON SIZE OF STG. |
| 02610 | 0760 | 00 | 0 | 00164 | | SWT 4 | |
| 02611 | 0020 | 00 | 0 | 02616 | | TRA H7 | |
| 02612 | 0760 | 00 | 0 | 00163 | | SWT 3 | |
| 02613 | 0020 | 00 | 0 | 02621 | | TRA H8 | |
| 02614 | 0020 | 00 | 0 | 02623 | | TRA H9 | |
| 02615 | 0100 | 00 | 0 | 02626 | J2 | TZE J1 | |
| 02616 | 0402 | 00 | 0 | 06606 | H7 | SUB L1+5 | L 00001 |
| 02617 | 1 | 00001 | 1 | 02615 | | TXI J2,1,1 | |
| 02620 | 3 | 07600 | 1 | 02615 | J3 | TXH J2,1,3968 | |
| 02621 | 0402 | 00 | 0 | 06616 | H8 | SUB L1+13 | L 00100 |
| 02622 | 1 | 00100 | 1 | 02620 | | TXI J3,1,64 | |
| 02623 | 3 | 06000 | 1 | 02621 | H9 | TXH H8,1,3072 | |
| 02624 | 0402 | 00 | 0 | 06615 | | SUB L1+12 | L 1000 |
| 02625 | 1 | 01000 | 1 | 02623 | | TXI H9,1,512 | |
| 02626 | -0754 | 00 | 1 | 00000 | J1 | PXD 0,1 | |
| 02627 | 0100 | 00 | 0 | 02632 | | TZE J4-3 | TO NEXT TEST |
| 02630 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02631 | 0000 | 00 | 0 | 02632 | | HTR J4-3 | |
| 02632 | 0760 | 00 | 0 | 00161 | | SWT 1 | |

| | | | | | | | |
|--|---------|----|---|-------|----|------------|-----------------------|
| 02633 | 0020 | 00 | 0 | 02635 | | TRA J4 | PROCEED TO NEXT TEST |
| 02634 | 0020 | 00 | 0 | 02606 | | TRA H6 | REPEAT TEST |
| TEST ADR MODIFICATION FOR ALL POSITIONS IN MEMORY | | | | | | | |
| 02635 | 0760 | 00 | 0 | 00000 | J4 | CLM | |
| 02636 | 0621 | 00 | 0 | 02641 | | STA J5 | |
| 02637 | 0534 | 00 | 1 | 06605 | | LXA L1+4,1 | L 7777 |
| 02640 | 0500 | 00 | 1 | 07777 | J7 | CLA 4095,1 | |
| 02641 | 0402 | 00 | 0 | 00000 | J5 | SUB 0 | |
| 02642 | -0100 | 00 | 0 | 02650 | | TNZ J6-2 | |
| 02643 | 0500 | 00 | 0 | 02641 | | CLA J5 | |
| 02644 | 0400 | 00 | 0 | 06606 | | ADD L1+5 | L1 |
| 02645 | 0621 | 00 | 0 | 02641 | | STA J5 | MODIFY ADDR. |
| 02646 | 2 00001 | 1 | 1 | 02640 | | TIX J7,1,1 | |
| 02647 | 0020 | 00 | 0 | 02652 | | TRA J6 | |
| 02650 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02651 | 0000 | 00 | 0 | 02652 | | HTR J6 | |
| 02652 | 0760 | 00 | 0 | 00161 | J6 | SWT 1 | |
| 02653 | 0020 | 00 | 0 | 02655 | | TRA M1-2 | |
| 02654 | 0020 | 00 | 0 | 02635 | | TRA J4 | |
| | | | | | | | |
| 02655 | 0760 | 00 | 0 | 00165 | | SWT 5 | |
| 02656 | 0020 | 00 | 0 | 02713 | | TRA N1-2 | GO TO NEXT TEST |
| 02657 | 0560 | 00 | 0 | 06621 | M1 | LDQ M | CLEAR MQ |
| | | | | | | | SSW 5 DOWN TEST HPR |
| | | | | | | | AND TSX INST |
| 02660 | 0420 | 00 | 0 | 00000 | | HPR | KEY IN TSX INST. INTO |
| | | | | | | | MQ WITH ADDR OF |
| | | | | | | | M4 TAG A |
| 02661 | 0020 | 00 | 0 | 02667 | | TRA M2 | O K |
| 02662 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02663 | 0000 | 00 | 0 | 02664 | | HTR M2-3 | |
| 02664 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02665 | 0020 | 00 | 0 | 02667 | | TRA M2 | |
| 02666 | 0020 | 00 | 0 | 02657 | | TRA M1 | RE-LOOP |
| | | | | | | | |
| 02667 | -0600 | 00 | 0 | 06623 | M2 | STQ M+2 | CHECK TSX INST |
| 02670 | 0500 | 00 | 0 | 06623 | | CLA M+2 | |
| 02671 | 0402 | 00 | 0 | 06622 | | SUB M+1 | L TSX |
| 02672 | 0100 | 00 | 0 | 02675 | | TZE M3-3 | TRANSFER ON ZERO O K |
| 02673 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02674 | 0000 | 00 | 0 | 02675 | | HTR M3-3 | |
| | | | | | | | |
| 02675 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02676 | 0020 | 00 | 0 | 02700 | | TRA M3 | |
| 02677 | 0020 | 00 | 0 | 02657 | | TRA M1 | ERROR ON TSX TEST |
| | | | | | | | |
| 02700 | 0420 | 00 | 0 | 00000 | M3 | HPR | EXECUTE TSX INST |
| | | | | | | | TO M4 TAG A |
| | | | | | | | |
| 02701 | 0020 | 00 | 0 | 02706 | | TRA M4+3 | DID NOT EXECUTE TSX |
| 02702 | 0020 | 00 | 0 | 02706 | | TRA M4+3 | ERROR |

| | | | | | | | |
|-------|-------|----|---|-------|----|----------|----------------------|
| 02703 | -0754 | 00 | 1 | 00000 | M4 | PXD 0,1 | |
| 02704 | 0402 | 00 | 0 | 06624 | | SUB M+3 | L 006631000000 |
| 02705 | 0100 | 00 | 0 | 02710 | | TZE N1-5 | OK |
| 02706 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02707 | 0000 | 00 | 0 | 02710 | | HTR M4+5 | |
| 02710 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02711 | 0020 | 00 | 0 | 02713 | | TRA N1-2 | PROCEED TO NEXT TEST |
| 02712 | 0020 | 00 | 0 | 02700 | | TRA M3 | REPEAT TEST |

TEST-PLACE INDEX IN ADDRESS

| | | | | | | | |
|-------|------|----|---|-------|----|------------|------------------------------|
| 02713 | 0500 | 00 | 0 | 06632 | | CLA K0+2 | L-377777777777 |
| 02714 | 0534 | 00 | 1 | 06630 | | LXA K0,1 | L +0 |
| 02715 | 0754 | 00 | 1 | 00000 | N1 | PXA 0,1 | CHECK CLEARING ACC |
| 02716 | 0100 | 00 | 0 | 02721 | | TZE N2-5 | |
| 02717 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02720 | 0000 | 00 | 0 | 02721 | | HTR N2-5 | |
| 02721 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02722 | 0020 | 00 | 0 | 02724 | | TRA N2-2 | |
| 02723 | 0020 | 00 | 0 | 02713 | | TRA N1-2 | REPEAT TEST |
| 02724 | 0500 | 00 | 0 | 06632 | | CLA K0+2 | L ALL ONES |
| 02725 | 0534 | 00 | 1 | 06631 | | LXA K0+1,1 | L +1 |
| 02726 | 0754 | 00 | 1 | 00000 | N2 | PXA 0,1 | CHECK CLEAR ALL BUT ADR |
| 02727 | 0402 | 00 | 0 | 06631 | | SUB K0+1 | L +1 |
| 02730 | 0100 | 00 | 0 | 02733 | | TZE N3-4 | |
| 02731 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02732 | 0000 | 00 | 0 | 02733 | | HTR N3-4 | |
| 02733 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02734 | 0020 | 00 | 0 | 02736 | | TRA N3-1 | |
| 02735 | 0020 | 00 | 0 | 02724 | | TRA N2-2 | REPEAT TEST |
| 02736 | 0534 | 00 | 1 | 06635 | | LXA K0+5,1 | L DEPENDS ON SIZE OF STG |
| 02737 | 0754 | 00 | 1 | 00000 | N3 | PXA 0,1 | CHECK ALL POSITIONS |
| 02740 | 0402 | 00 | 0 | 06605 | | SUB L1+4 | L 07777, 17777, 37777, 77777 |
| 02741 | 0100 | 00 | 0 | 02744 | | TZE N3+5 | |
| 02742 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02743 | 0000 | 00 | 0 | 02744 | | HTR N3+5 | |
| 02744 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02745 | 0020 | 00 | 0 | 02747 | | TRA AN1-2 | NEXT SECTION |
| 02746 | 0020 | 00 | 0 | 02736 | | TRA N3-1 | REPEAT TEST |

TEST-XRA, PXA AND COMP.

| | | | | | | | |
|-------|-------|----|---|-------|-----|------------|---------------------------|
| 02747 | 0500 | 00 | 0 | 06632 | | CLA K0+2 | L ALL ONES |
| 02750 | 0534 | 00 | 1 | 06605 | | LXA L1+4,1 | L 7777 |
| 02751 | 0754 | 00 | 1 | 00000 | AN1 | PXA 0,1 | |
| 02752 | 0760 | 00 | 0 | 00006 | | COM | |
| 02753 | -0763 | 00 | 0 | 00002 | | LGL 2 | TO ELIMINATE P AND Q BITS |
| 02754 | -0765 | 00 | 0 | 00002 | | LGR 2 | |
| 02755 | 0140 | 00 | 0 | 02756 | | TOV *+1 | TURN OFF OVERFLOW LIGHT |
| 02756 | 0600 | 00 | 0 | 06623 | | STZ M+2 | CLEAR TEMP STG. |
| 02757 | 0621 | 00 | 0 | 06623 | | STA M+2 | |
| 02760 | 0402 | 00 | 0 | 06730 | | SUB Y | L 3777777770000 |
| 02761 | 0100 | 00 | 0 | 02764 | | TZE AN2 | OK-TEST SWITCH 1 |
| 02762 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |

| | | | | | | | |
|-------|------|----|---|-------|-----|-----------|---------------|
| 02763 | 0000 | 00 | 0 | 02764 | | HTR AN2 | HALT ON ERROR |
| 02764 | 0760 | 00 | 0 | 00161 | AN2 | SWT 1 | |
| 02765 | 0020 | 00 | 0 | 02767 | | TRA AN2+3 | NEXT SECTION |
| 02766 | 0020 | 00 | 0 | 02747 | | TRA AN1-2 | REPEAT |

TEST-STA AFTER PXA COMP.

| | | | | | | | |
|-------|------|----|---|-------|--|-----------|---------------------|
| 02767 | 0500 | 00 | 0 | 06623 | | CLA M+2 | RESULTS STA |
| 02770 | 0402 | 00 | 0 | 06731 | | SUB Z | TEST STA |
| 02771 | 0100 | 00 | 0 | 02774 | | TZE AN2+8 | OK-TEST SWITCH 1 |
| 02772 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 02773 | 0000 | 00 | 0 | 02774 | | HTR AN2+8 | HALT ON ERROR |
| 02774 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 02775 | 0020 | 00 | 0 | 02777 | | TRA N4-2 | NEXT SECTION |
| 02776 | 0020 | 00 | 0 | 02747 | | TRA AN1-2 | REPEAT |

TEST STORE INDEX IN ADDRESS

| | | | | | | | |
|-------|-------|----|---|-------|----|------------|----------------------------|
| 02777 | 0534 | 00 | 1 | 06631 | | LXA K0+1,1 | L +1 |
| 03000 | 0600 | 00 | 0 | 06645 | | STZ T1 | BLANK TEMP STG |
| 03001 | 0634 | 00 | 1 | 06645 | N4 | SXA T1,1 | PUT 1 IN ADR OF STORAGE |
| 03002 | 0500 | 00 | 0 | 06645 | | CLA T1 | L 0 |
| 03003 | 0402 | 00 | 0 | 06631 | | SUB K0+1 | L +1 |
| 03004 | -0100 | 00 | 0 | 03010 | | TNZ N4+7 | |
| 03005 | 0754 | 00 | 1 | 00000 | | PXA 0,1 | CHECK IF INDEX HAS CHANGED |
| 03006 | 0402 | 00 | 0 | 06631 | | SUB K0+1 | L +1 |
| 03007 | 0100 | 00 | 0 | 03012 | | TZE N5-9 | |
| 03010 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03011 | 0000 | 00 | 0 | 03012 | | HTR N5-9 | |
| 03012 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03013 | 0020 | 00 | 0 | 03015 | | TRA N5-6 | |
| 03014 | 0020 | 00 | 0 | 02777 | | TRA N4-2 | REPEAT TEST |
| 03015 | -0500 | 00 | 0 | 06635 | | CAL K0+5 | L -3077777707777 |
| 03016 | 0767 | 00 | 0 | 00022 | | ALS 18 | CLEAR ACC. ADDR. AND TAG |
| 03017 | 0602 | 00 | 0 | 06645 | | SLW T1 | |
| 03020 | -0500 | 00 | 0 | 06632 | | CAL K0+2 | TO BRING IN TAG OF 7 |
| 03021 | 0625 | 00 | 0 | 06645 | | STT T1 | |
| 03022 | 0534 | 00 | 1 | 06635 | | LXA K0+5,1 | L DEPENDS ON SIZE OF STG |
| 03023 | 0634 | 00 | 1 | 06645 | N5 | SXA T1,1 | CHECK ALL POSITIONS |
| 03024 | 0500 | 00 | 0 | 06645 | | CLA T1 | |
| 03025 | 0402 | 00 | 0 | 06635 | | SUB K0+5 | L DEPENDS ON SIZE OF STG |
| 03026 | 0100 | 00 | 0 | 03031 | | TZE N6-5 | |
| 03027 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03030 | 0000 | 00 | 0 | 03031 | | HTR N6-5 | |
| 03031 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03032 | 0020 | 00 | 0 | 03034 | | TRA N6-2 | PROCEED TO NEXT TEST |
| 03033 | 0020 | 00 | 0 | 03015 | | TRA N5-6 | |

TEST-PLACE 2S COMP OF ADR IN XR

| | | | | | | | |
|-------|------|----|---|-------|----|------------|---------------------|
| 03034 | 0500 | 00 | 0 | 06636 | | CLA K0+6 | L 345252742525 |
| 03035 | 0534 | 00 | 1 | 06636 | | LXA K0+6,1 | L 42525 |
| 03036 | 0737 | 00 | 1 | 00000 | N6 | PAC 0,1 | |
| 03037 | 0402 | 00 | 0 | 06636 | | SUB K0+6 | CHECK ACC UNCHANGED |

| | | | | | | | |
|-------|-------|----|---|-------|-----|------|--------------------------|
| 03040 | -0100 | 00 | 0 | 03044 | TNZ | N6+6 | NG |
| 03041 | -0754 | 00 | 1 | 00000 | PXD | 0,1 | CHECK XR |
| 03042 | 0402 | 00 | 0 | 06637 | SUB | K0+7 | L DEPENDS ON SIZE OF STG |
| 03043 | 0100 | 00 | 0 | 03046 | TZE | N7-5 | |
| 03044 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 |
| 03045 | 0000 | 00 | 0 | 03046 | HTR | N7-5 | |
| 03046 | 0760 | 00 | 0 | 00161 | SWT | 1 | |
| 03047 | 0020 | 00 | 0 | 03051 | TRA | N7-2 | |
| 03050 | 0020 | 00 | 0 | 03034 | TRA | N6-2 | |

TEST-PLACE 2S COMP OF DECR IN XR

| | | | | | | | |
|-------|-------|----|---|-------|-----|--------|--------------------------|
| 03051 | 0500 | 00 | 0 | 06636 | CLA | K0+6 | L 345252742525 |
| 03052 | -0534 | 00 | 1 | 06636 | LXD | K0+6,1 | L 45252 |
| 03053 | -0737 | 00 | 1 | 00000 | PDC | 0,1 | |
| 03054 | 0402 | 00 | 0 | 06636 | SUB | K0+6 | CHECK ACC UNCHANGED |
| 03055 | -0100 | 00 | 0 | 03061 | TNZ | N7+6 | NG |
| 03056 | -0754 | 00 | 1 | 00000 | PXD | 0,1 | CHECK XR |
| 03057 | 0402 | 00 | 0 | 06640 | SUB | K0+8 | L DEPENDS ON SIZE OF STG |
| 03060 | 0100 | 00 | 0 | 03063 | TZE | N10-4 | |
| 03061 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 |
| 03062 | 0000 | 00 | 0 | 03063 | HTR | N10-4 | |
| 03063 | 0760 | 00 | 0 | 00161 | SWT | 1 | |
| 03064 | 0020 | 00 | 0 | 03066 | TRA | N10-1 | PROCEED TO NEXT TEST |
| 03065 | 0020 | 00 | 0 | 03051 | TRA | N7-2 | REPEAT TEST |

TEST-LOAD ADR 2S COMP IN INDEX

| | | | | | | | |
|-------|-------|----|---|-------|-----|--------|--------------------------|
| 03066 | 0534 | 00 | 1 | 06635 | LXA | K0+5,1 | L DEPENDS ON SIZE OF STG |
| 03067 | 0535 | 00 | 1 | 06636 | LAC | K0+6,1 | L 42525 |
| 03070 | -0754 | 00 | 1 | 00000 | PXD | 0,1 | BRING BACK XR |
| 03071 | 0402 | 00 | 0 | 06637 | SUB | K0+7 | L DEPENDS ON SIZE OF STG |
| 03072 | 0100 | 00 | 0 | 03075 | TZE | N11-4 | |
| 03073 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 |
| 03074 | 0000 | 00 | 0 | 03075 | HTR | N11-4 | |
| 03075 | 0760 | 00 | 0 | 00161 | SWT | 1 | |
| 03076 | 0020 | 00 | 0 | 03100 | TRA | N11-1 | PROCEED TO NEXT TEST |
| 03077 | 0020 | 00 | 0 | 03066 | TRA | N10-1 | REPEAT TEST |

TEST-LOAD DECR 2S COMP IN INDEX

| | | | | | | | |
|-------|-------|----|---|-------|-----|--------|--------------------------|
| 03100 | 0534 | 00 | 1 | 06635 | LXA | K0+5,1 | L DEPENDS ON SIZE OF STG |
| 03101 | -0535 | 00 | 1 | 06636 | LDC | K0+6,1 | L 45252 |
| 03102 | -0754 | 00 | 1 | 00000 | PXD | 0,1 | BRING BACK XR |
| 03103 | 0402 | 00 | 0 | 06640 | SUB | K0+8 | L DEPENDS ON SIZE OF STG |
| 03104 | 0100 | 00 | 0 | 03107 | TZE | N12-5 | |
| 03105 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 |
| 03106 | 0000 | 00 | 0 | 03107 | HTR | N12-5 | |
| 03107 | 0760 | 00 | 0 | 00161 | SWT | 1 | |
| 03110 | 0020 | 00 | 0 | 03112 | TRA | N12-2 | PROCEED TO NEXT TEST |
| 03111 | 0020 | 00 | 0 | 03100 | TRA | N11-1 | REPEAT TEST |

TEST-LOAD OWN ADDRESS IN XR

| | | | | | | | | |
|-------|-------|----|---|-------|-----|-----|---------|--------------------------|
| 03112 | 0500 | 00 | 0 | 06630 | | CLA | K0 | L+0 |
| 03113 | 0534 | 00 | 1 | 06635 | | LXA | K0+5,1 | L DEPENDS ON SIZE OF STG |
| 03114 | 0774 | 00 | 1 | 35253 | N12 | AXT | 15019,1 | PUT 35253 IN XR |
| 03115 | -0754 | 00 | 1 | 00000 | | PXD | 0,1 | BRING BACK XR |
| 03116 | 0402 | 00 | 0 | 06637 | | SUB | K0+7 | L DEPENDS ON SIZE OF STG |
| 03117 | 0100 | 00 | 0 | 03122 | | TZE | N13-5 | |
| 03120 | 0760 | 00 | 0 | 00162 | | SWT | 2 | ERROR-TEST SWITCH 2 |
| 03121 | 0000 | 00 | 0 | 03122 | | HTR | N13-5 | |
| 03122 | 0760 | 00 | 0 | 00161 | | SWT | 1 | |
| 03123 | 0020 | 00 | 0 | 03125 | | TRA | N13-2 | PROCEED TO NEXT TEST |
| 03124 | 0020 | 00 | 0 | 03112 | | TRA | N12-2 | REPEAT TEST |

TEST-LOAD COMP OF OWN ADDRESS

| | | | | | | | | |
|-------|-------|----|---|-------|-----|-----|---------|--------------------------|
| 03125 | 0500 | 00 | 0 | 06630 | | CLA | K0 | L+0 |
| 03126 | 0534 | 00 | 1 | 06635 | | LXA | K0+5,1 | L DEPENDS ON SIZE OF STG |
| 03127 | -0774 | 00 | 1 | 42525 | N13 | AXC | 17749,1 | PUT 35253 IN XRA |
| 03130 | -0754 | 00 | 1 | 00000 | | PXD | 0,1 | BRING BACK XR |
| 03131 | 0402 | 00 | 0 | 06637 | | SUB | K0+7 | L DEPENDS ON SIZE OF STG |
| 03132 | 0100 | 00 | 0 | 03135 | | TZE | L5B-3 | |
| 03133 | 0760 | 00 | 0 | 00162 | | SWT | 2 | ERROR-TEST SWITCH 2 |
| 03134 | 0000 | 00 | 0 | 03135 | | HTR | L5B-3 | |
| 03135 | 0760 | 00 | 0 | 00161 | | SWT | 1 | |
| 03136 | 0020 | 00 | 0 | 03140 | | TRA | L5B | PROCEED TO NEXT TEST |
| 03137 | 0020 | 00 | 0 | 03125 | | TRA | N13-2 | REPEAT TEST |

* TEST THAT NO INDEX TAG LEAVES ADR UNALTERED

| | | | | | | | | |
|-------|------|----|---|-------|-----|-----|-------|---------------------|
| 03140 | 0500 | 00 | 0 | 03164 | L5B | CLA | L9B+1 | L PXD 0,2 |
| 03141 | 0402 | 00 | 0 | 03175 | | SUB | A1B+2 | L PXD 0,1 |
| 03142 | 0100 | 00 | 0 | 03145 | | TZE | L7B-3 | |
| 03143 | 0760 | 00 | 0 | 00162 | | SWT | 2 | ERROR-TEST SWITCH 2 |
| 03144 | 0000 | 00 | 0 | 03145 | | HTR | L7B-3 | |

TEST XRB

| | | | | | | | | |
|-------|------|----|---|-------|--|-----|-----|----------------------|
| 03145 | 0760 | 00 | 0 | 00161 | | SWT | 1 | |
| 03146 | 0020 | 00 | 0 | 03150 | | TRA | L7B | PROCEED TO NEXT TEST |
| 03147 | 0020 | 00 | 0 | 03140 | | TRA | L5B | REPEAT TEST |

TEST THAT XR IS RESET TO ZERO IF ADR ARE BEING MODIFIED

| | | | | | | | | |
|-------|------|----|---|-------|-----|-----|-------|----------------------|
| 03150 | 0761 | 00 | 0 | 00000 | L7B | NOP | | |
| 03151 | 0534 | 00 | 2 | 06601 | L8B | LXA | L1,2 | L 0 |
| 03152 | 0500 | 00 | 0 | 03150 | | CLA | L7B | |
| 03153 | 0402 | 00 | 2 | 03150 | | SUB | L7B,2 | |
| 03154 | 0100 | 00 | 0 | 03157 | | TZE | L9B-4 | |
| 03155 | 0760 | 00 | 0 | 00162 | | SWT | 2 | ERROR-TEST SWITCH 2 |
| 03156 | 0000 | 00 | 0 | 03157 | | HTR | L9B-4 | |
| 03157 | 0760 | 00 | 0 | 00161 | | SWT | 1 | |
| 03160 | 0020 | 00 | 0 | 03162 | | TRA | L9B-1 | PROCEED TO NEXT TEST |
| 03161 | 0020 | 00 | 0 | 03151 | | TRA | L8B | REPEAT TEST |

TEST PLACE XR B IN DECR

| | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|---------------------|
| 03162 | 0534 | 00 | 2 | 06601 | | LXA L1,2 | L 0 |
| 03163 | 0500 | 00 | 0 | 03140 | L9B | CLA L5B | |
| 03164 | -0754 | 00 | 2 | 00000 | | PXD 0,2 | |
| 03165 | 0100 | 00 | 0 | 03170 | | TZE A1B-3 | |
| 03166 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03167 | 0000 | 00 | 0 | 03170 | | HTR A1B-3 | |
| 03170 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03171 | 0020 | 00 | 0 | 03173 | | TRA A1B | NEXT SECTION |
| 03172 | 0020 | 00 | 0 | 03162 | | TRA L9B-1 | REPEAT TEST |

TEST LXD AND PXD WITH XR B

| | | | | | | | |
|-------|-------|----|---|-------|-----|------------|----------------------|
| 03173 | 0500 | 00 | 0 | 03140 | A1B | CLA L5B | L CLA |
| 03174 | -0534 | 00 | 2 | 06601 | | LXD L1,2 | LOAD XR B WITH 1 |
| 03175 | -0754 | 00 | 2 | 00000 | | PXD 0,2 | |
| 03176 | 0402 | 00 | 0 | 06601 | | SUB L1 | L DECR OF 1 |
| 03177 | 0100 | 00 | 0 | 03202 | | TZE A1B+7 | |
| 03200 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03201 | 0000 | 00 | 0 | 03202 | | HTR A1B+7 | |
| 03202 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03203 | 0020 | 00 | 0 | 03205 | | TRA L10B-1 | PROCEED TO NEXT TEST |
| 03204 | 0020 | 00 | 0 | 03173 | | TRA A1B | REPEAT TEST |

TEST-XRB, PXD AND COMP.

| | | | | | | | |
|-------|-------|----|---|-------|------|------------|---------------------------|
| 03205 | 0534 | 00 | 2 | 06632 | | LXA K0+2,2 | L 7777 |
| 03206 | 0500 | 00 | 0 | 06632 | L10B | CLA K0+2 | |
| 03207 | -0754 | 00 | 2 | 00000 | | PXD 0,2 | |
| 03210 | 0760 | 00 | 0 | 00006 | | COM | |
| 03211 | -0763 | 00 | 0 | 00002 | | LGL 2 | TO ELIMINATE P AND Q BITS |
| 03212 | -0765 | 00 | 0 | 00002 | | LGR 2 | |
| 03213 | 0140 | 00 | 0 | 03214 | | TOV *+1 | TURN OFF OVERFLOW LIGHT |
| 03214 | 0600 | 00 | 0 | 06623 | | STZ M+2 | CLEAR TEMP. STORAGE |
| 03215 | 0622 | 00 | 0 | 06623 | | STD M+2 | |
| 03216 | 0402 | 00 | 0 | 06726 | | SUB W | L 370000777777 |
| 03217 | 0100 | 00 | 0 | 03222 | | TZE L11B-3 | OK-TEST SWITCH 1 |
| 03220 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03221 | 0000 | 00 | 0 | 03222 | | HTR L11B-3 | HALT ON ERROR |
| 03222 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03223 | 0020 | 00 | 0 | 03225 | | TRA L11B | NEXT SECTION |
| 03224 | 0020 | 00 | 0 | 03205 | | TRA L10B-1 | REPEAT |

TEST-STD AFTER PXD COMP.

| | | | | | | | |
|-------|------|----|---|-------|------|------------|---------------------|
| 03225 | 0500 | 00 | 0 | 06623 | L11B | CLA M+2 | RESULTS STD |
| 03226 | 0402 | 00 | 0 | 06727 | | SUB X | TEST STD |
| 03227 | 0100 | 00 | 0 | 03232 | | TZE L11B+5 | OK-TEST SWITCH 1 |
| 03230 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03231 | 0000 | 00 | 0 | 03232 | | HTR L11B+5 | HALT ON ERROR |
| 03232 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03233 | 0020 | 00 | 0 | 03235 | | TRA A2B | NEXT SECTION |
| 03234 | 0020 | 00 | 0 | 03205 | | TRA L10B-1 | REPEAT SECTION |

TEST LXD AND PXD WITH XR B

| | | | | | | | |
|-------|-------|----|---|-------|-----|------------|----------------------|
| 03235 | 0500 | 00 | 0 | 03140 | A2B | CLA L5B | L CLA |
| 03236 | -0534 | 00 | 2 | 06602 | | LXD L1+1,2 | LOAD XRB WITH 2 |
| 03237 | -0754 | 00 | 2 | 00000 | | PXD 0,2 | |
| 03240 | 0402 | 00 | 0 | 06602 | | SUB L1+1 | L DECR OF 2 |
| 03241 | 0100 | 00 | 0 | 03244 | | TZE A3B-3 | |
| 03242 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03243 | 0000 | 00 | 0 | 03244 | | HTR A3B-3 | |
| 03244 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03245 | 0020 | 00 | 0 | 03247 | | TRA A3B | PROCEED TO NEXT TEST |
| 03246 | 0020 | 00 | 0 | 03235 | | TRA A2B | REPEAT TEST |

TEST ADR MODIFICATION USING XR B

| | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|------------------------|
| 03247 | -0534 | 00 | 2 | 06601 | A3B | LXD L1,2 | L 1 |
| 03250 | 0500 | 00 | 2 | 03250 | A4B | CLA A4B,2 | |
| 03251 | 0402 | 00 | 0 | 03247 | | SUB A3B | |
| 03252 | 0100 | 00 | 0 | 03255 | | TZE A5B-3 | |
| 03253 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03254 | 0000 | 00 | 0 | 03255 | | HTR A5B-3 | |
| 03255 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03256 | 0020 | 00 | 0 | 03260 | | TRA A5B | |
| 03257 | 0020 | 00 | 0 | 03247 | | TRA A3B | REPEAT TEST |
| 03260 | -0754 | 00 | 2 | 00000 | A5B | PXD 0,2 | TEST CONTENT OF XRB |
| 03261 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 03262 | 0100 | 00 | 0 | 03265 | | TZE A6B-3 | |
| 03263 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03264 | 0000 | 00 | 0 | 03265 | | HTR A6B-3 | |
| 03265 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03266 | 0020 | 00 | 0 | 03270 | | TRA A6B | PROCEED TO NEXT TEST |
| 03267 | 0020 | 00 | 0 | 03247 | | TRA A3B | REPEAT TEST |

TEST TXI WITH XR B

| | | | | | | | |
|-------|-------|-------|---|-------|-----|-------------|----------------------|
| 03270 | -0534 | 00 | 2 | 06601 | A6B | LXD L1,2 | L 1 |
| 03271 | 1 | 00001 | 2 | 03300 | | TXI A9B,2,1 | |
| 03272 | 0020 | 00 | 0 | 03273 | | TRA A8B-2 | |
| 03273 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03274 | 0000 | 00 | 0 | 03275 | | HTR A8B | |
| 03275 | 0760 | 00 | 0 | 00161 | A8B | SWT 1 | |
| 03276 | 0020 | 00 | 0 | 03300 | | TRA A9B | |
| 03277 | 0020 | 00 | 0 | 03270 | | TRA A6B | REPEAT TEST |
| 03300 | -0754 | 00 | 2 | 00000 | A9B | PXD 0,2 | |
| 03301 | 0402 | 00 | 0 | 06602 | | SUB L1+1 | L 2 IN DECR |
| 03302 | 0100 | 00 | 0 | 03305 | | TZE B1B-3 | |
| 03303 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03304 | 0000 | 00 | 0 | 03305 | | HTR B1B-3 | |
| 03305 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03306 | 0020 | 00 | 0 | 03310 | | TRA B1B | PROCEED TO NEXT TEST |
| 03307 | 0020 | 00 | 0 | 03300 | | TRA A9B | REPEAT TEST |

TEST SXD WITH XR B

| | | | | | | | |
|-------|---------|----|-------|-------|-----|------------|------------------------------------|
| 03310 | -0534 | 00 | 2 | 03332 | B1B | LXD B2B,2 | L DECR 2 |
| 03311 | -0634 | 00 | 2 | 03331 | | SXD B3B,2 | |
| 03312 | 0500 | 00 | 0 | 03331 | | CLA B3B | |
| 03313 | 0402 | 00 | 0 | 03332 | | SUB B2B | |
| 03314 | 0100 | 00 | 0 | 03322 | | TZE B4B | |
| 03315 | 0500 | 00 | 0 | 03330 | | CLA B5B | TEST IF SXD IS BEING INDEXED |
| 03316 | 0402 | 00 | 0 | 03332 | | SUB B2B | |
| 03317 | -0100 | 00 | 0 | 03320 | | TNZ B6B | |
| 03320 | 0760 | 00 | 0 | 00162 | B6B | SWT 2 | ERROR-TEST SWITCH 2 |
| 03321 | 0000 | 00 | 0 | 03322 | | HTR B4B | CHECK ACC FOR TYPE OF ERROR |
| 03322 | 0500 | 00 | 0 | 06655 | B4B | CLA S10B | RESET TEMP. STG. |
| 03323 | 0601 | 00 | 0 | 03330 | | STO B5B | |
| 03324 | 0601 | 00 | 0 | 03331 | | STO B3B | |
| 03325 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03326 | 0020 | 00 | 0 | 03333 | | TRA B7B | PROCEED TO NEXT TEST |
| 03327 | 0020 | 00 | 0 | 03310 | | TRA B1B | REPEAT TEST |
| 03330 | 1 00014 | 2 | 00002 | B5B | | TXI 2,2,12 | CONSTANTS |
| 03331 | 1 00014 | 2 | 00002 | B3B | | TXI 2,2,12 | |
| 03332 | 1 00002 | 2 | 00002 | B2B | | TXI 2,2,2 | |

TEST PDX WITH XR B

| | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|----------------------|
| 03333 | -0534 | 00 | 2 | 06601 | B7B | LXD L1,2 | L1 |
| 03334 | 0760 | 00 | 0 | 00000 | | CLM | |
| 03335 | -0734 | 00 | 2 | 00000 | | PDX 0,2 | |
| 03336 | -0754 | 00 | 2 | 00000 | | PXD 0,2 | |
| 03337 | 0100 | 00 | 0 | 03342 | | TZE B8B-3 | |
| 03340 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03341 | 0000 | 00 | 0 | 03342 | | HTR B8B-3 | |
| 03342 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03343 | 0020 | 00 | 0 | 03345 | | TRA B8B | PROCEED TO NEXT TEST |
| 03344 | 0020 | 00 | 0 | 03333 | | TRA B7B | REPEAT TEST |

TEST LXA WITH XRB

| | | | | | | | |
|-------|-------|----|---|-------|-----|------------|----------------------|
| 03345 | 0760 | 00 | 0 | 00000 | B8B | CLM | |
| 03346 | -0734 | 00 | 2 | 00000 | | PDX 0,2 | RESET XR B |
| 03347 | 0534 | 00 | 2 | 06603 | | LXA L1+2,2 | L2 |
| 03350 | -0754 | 00 | 2 | 00000 | | PXD 0,2 | |
| 03351 | 0402 | 00 | 0 | 06602 | | SUB L1+1 | L2 IN DECR |
| 03352 | 0100 | 00 | 0 | 03355 | | TZE B9B-3 | |
| 03353 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03354 | 0000 | 00 | 0 | 03355 | | HTR B9B-3 | |
| 03355 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03356 | 0020 | 00 | 0 | 03360 | | TRA B9B | PROCEED TO NEXT TEST |
| 03357 | 0020 | 00 | 0 | 03345 | | TRA B8B | REPEAT TEST |

TEST PAX WITH XR B

| | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|----------------------|
| 03360 | 0500 | 00 | 0 | 06603 | B9B | CLA L1+2 | L 2 IN ADDR |
| 03361 | -0534 | 00 | 2 | 06601 | | LXD L1,2 | L 1 |
| 03362 | 0734 | 00 | 2 | 00000 | | PAX 0,2 | |
| 03363 | -0754 | 00 | 2 | 00000 | | PXD 0,2 | |
| 03364 | 0402 | 00 | 0 | 06602 | | SUB L1+1 | L 2 IN DECR |
| 03365 | 0100 | 00 | 0 | 03370 | | TZE C1B-3 | |
| 03366 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03367 | 0000 | 00 | 0 | 03370 | | HTR C1B-3 | |
| 03370 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03371 | 0020 | 00 | 0 | 03373 | | TRA C1B | PROCEED TO NEXT TEST |
| 03372 | 0020 | 00 | 0 | 03360 | | TRA B9B | REPEAT TEST |

TEST TXH WHEN XRB IS LOW

| | | | | | | | |
|-------|---------|----|-------|-------|-----|---------------|---------------------|
| 03373 | -0534 | 00 | 2 | 06601 | C1B | LXD L1,2 | L 1 |
| 03374 | 3 00002 | 2 | 03376 | | | TXH C2B-2,2,2 | |
| 03375 | 0020 | 00 | 0 | 03403 | | TRA C3B | |
| 03376 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03377 | 0000 | 00 | 0 | 03400 | | HTR C2B | |
| 03400 | 0760 | 00 | 0 | 00161 | C2B | SWT 1 | |
| 03401 | 0020 | 00 | 0 | 03403 | | TRA C3B | |
| 03402 | 0020 | 00 | 0 | 03373 | | TRA C1B | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|----------------------|
| 03403 | -0754 | 00 | 2 | 00000 | C3B | PXD 0,2 | TEST XR B |
| 03404 | 0402 | 00 | 0 | 06601 | | SUB L1 | |
| 03405 | 0100 | 00 | 0 | 03410 | | TZE C4B-3 | |
| 03406 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03407 | 0000 | 00 | 0 | 03410 | | HTR C4B-3 | |
| 03410 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03411 | 0020 | 00 | 0 | 03413 | | TRA C4B | PROCEED TO NEXT TEST |
| 03412 | 0020 | 00 | 0 | 03403 | | TRA C3B | REPEAT TEST |

TEST TXH WHEN XR + DECR EQUAL

| | | | | | | | |
|-------|---------|----|-------|-------|-----|---------------|---------------------|
| 03413 | -0534 | 00 | 2 | 06601 | C4B | LXD L1,2 | L 1 |
| 03414 | 3 00001 | 2 | 03416 | | | TXH C5B-2,2,1 | |
| 03415 | 0020 | 00 | 0 | 03423 | | TRA C6B | |
| 03416 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03417 | 0000 | 00 | 0 | 03420 | | HTR C5B | |
| 03420 | 0760 | 00 | 0 | 00161 | C5B | SWT 1 | |
| 03421 | 0020 | 00 | 0 | 03423 | | TRA C6B | |
| 03422 | 0020 | 00 | 0 | 03413 | | TRA C4B | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|----------------------|
| 03423 | -0754 | 00 | 2 | 00000 | C6B | PXD 0,2 | TEST XR |
| 03424 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 03425 | 0100 | 00 | 0 | 03430 | | TZE C7B-3 | |
| 03426 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03427 | 0000 | 00 | 0 | 03430 | | HTR C7B-3 | |
| 03430 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03431 | 0020 | 00 | 0 | 03433 | | TRA C7B | PROCEED TO NEXT TEST |
| 03432 | 0020 | 00 | 0 | 03423 | | TRA C6B | REPEAT TEST |

TEST TXH WHEN XR IS HIGH

| | | | | | | | |
|-------|---------|----|-------|-------|-----|-----------|-----|
| 03433 | -0534 | 00 | 2 | 06601 | C7B | LXD L1,2 | L 1 |
| 03434 | 3 00000 | 2 | 03442 | | | TXH C8B,2 | |

| | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|----------------------|
| 03435 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03436 | 0000 | 00 | 0 | 03437 | | HTR C9B | |
| 03437 | 0760 | 00 | 0 | 00161 | C9B | SWT 1 | |
| 03440 | 0020 | 00 | 0 | 03442 | | TRA C8B | |
| 03441 | 0020 | 00 | 0 | 03433 | | TRA C7B | REPEAT TEST |
| | | | | | | | |
| 03442 | -0754 | 00 | 2 | 00000 | C8B | PXD 0,2 | TEST XR |
| 03443 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 03444 | 0100 | 00 | 0 | 03447 | | TZE D1B-3 | |
| 03445 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03446 | 0000 | 00 | 0 | 03447 | | HTR D1B-3 | |
| 03447 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03450 | 0020 | 00 | 0 | 03452 | | TRA D1B | PROCEED TO NEXT TEST |
| 03451 | 0020 | 00 | 0 | 03442 | | TRA C8B | REPEAT TEST |

TEST TXL WHEN XR IS HIGH

| | | | | | | | |
|-------|-------|-------|---|-------|-----|-------------|----------------------|
| 03452 | -0534 | 00 | 2 | 06601 | D1B | LXD L1,2 | L 1 |
| 03453 | -3 | 00000 | 2 | 03456 | | TXL D2B-2,2 | |
| 03454 | 0020 | 00 | 0 | 03463 | | TRA D3B | |
| 03455 | 0020 | 00 | 0 | 03456 | | TRA D2B-2 | ERROR TRANS |
| 03456 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03457 | 0000 | 00 | 0 | 03460 | | HTR D2B | |
| 03460 | 0760 | 00 | 0 | 00161 | D2B | SWT 1 | |
| 03461 | 0020 | 00 | 0 | 03463 | | TRA D3B | |
| 03462 | 0020 | 00 | 0 | 03452 | | TRA D1B | REPEAT TEST |
| | | | | | | | |
| 03463 | -0754 | 00 | 2 | 00000 | D3B | PXD 0,2 | TEST XR |
| 03464 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 03465 | 0100 | 00 | 0 | 03470 | | TZE D4B-3 | |
| 03466 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03467 | 0000 | 00 | 0 | 03470 | | HTR D4B-3 | |
| 03470 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03471 | 0020 | 00 | 0 | 03473 | | TRA D4B | PROCEED TO NEXT TEST |
| 03472 | 0020 | 00 | 0 | 03463 | | TRA D3B | REPEAT TEST |

TEST TXL WHEN XR EQUALS DECR

| | | | | | | | |
|-------|-------|-------|---|-------|-----|-------------|-------------------------|
| 03473 | -0534 | 00 | 2 | 06601 | D4B | LXD L1,2 | L 1 |
| 03474 | -3 | 00001 | 2 | 03502 | | TXL D5B,2,1 | |
| 03475 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03476 | 0000 | 00 | 0 | 03477 | | HTR D6B | |
| 03477 | 0760 | 00 | 0 | 00161 | D6B | SWT 1 | |
| 03500 | 0020 | 00 | 0 | 03502 | | TRA D5B | |
| 03501 | 0020 | 00 | 0 | 03473 | | TRA D4B | REPEAT TEST MODIFIED |
| | | | | | | | |
| 03502 | -0754 | 00 | 2 | 00000 | D5B | PXD 0,2 | TEST XR B |
| 03503 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 03504 | 0100 | 00 | 0 | 03507 | | TZE D7B-3 | |
| 03505 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03506 | 0000 | 00 | 0 | 03507 | | HTR D7B-3 | |
| 03507 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03510 | 0020 | 00 | 0 | 03512 | | TRA D7B | PROCEED TO NEXT TEST |
| 03511 | 0020 | 00 | 0 | 03502 | | TRA D5B | REPEAT TEST |

TEST TXL WHEN XR IS LOW

| | | | | | | | |
|-------------------------------|-------|-------|---|-------|-----|---------------|----------------------|
| 03512 | -0534 | 00 | 2 | 06601 | D7B | LXD L1,2 | L 1 |
| 03513 | -3 | 00002 | 2 | 03521 | | TXL D8B,2,2 | |
| 03514 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03515 | 0000 | 00 | 0 | 03516 | | HTR D9B | |
| 03516 | 0760 | 00 | 0 | 00161 | D9B | SWT 1 | |
| 03517 | 0020 | 00 | 0 | 03521 | | TRA D8B | |
| 03520 | 0020 | 00 | 0 | 03512 | | TRA D7B | REPEAT TEST |
| | | | | | | | |
| 03521 | -0754 | 00 | 2 | 00000 | D8B | PXD 0,2 | TEST XR B |
| 03522 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 03523 | 0100 | 00 | 0 | 03526 | | TZE E1B-3 | |
| 03524 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03525 | 0000 | 00 | 0 | 03526 | | HTR E1B-3 | |
| 03526 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03527 | 0020 | 00 | 0 | 03531 | | TRA E1B | PROCEED TO NEXT TEST |
| 03530 | 0020 | 00 | 0 | 03521 | | TRA D8B | REPEAT TEST |
| | | | | | | | |
| TEST TIX XR GREATER THEN DECR | | | | | | | |
| | | | | | | | |
| 03531 | -0534 | 00 | 2 | 06602 | E1B | LXD L1+1,2 | L 2 |
| 03532 | 2 | 00001 | 2 | 03540 | | TIX E2B,2,1 | |
| 03533 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03534 | 0000 | 00 | 0 | 03535 | | HTR E4B | |
| 03535 | 0760 | 00 | 0 | 00161 | E4B | SWT 1 | |
| 03536 | 0020 | 00 | 0 | 03540 | | TRA E2B | |
| 03537 | 0020 | 00 | 0 | 03531 | | TRA E1B | REPEAT TEST |
| | | | | | | | |
| 03540 | -0754 | 00 | 2 | 00000 | E2B | PXD 0,2 | TEST XR B |
| 03541 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 03542 | 0100 | 00 | 0 | 03545 | | TZE E5B-3 | |
| 03543 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03544 | 0000 | 00 | 0 | 03545 | | HTR E5B-3 | |
| 03545 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03546 | 0020 | 00 | 0 | 03550 | | TRA E5B | PROCEED TO NEXT TEST |
| 03547 | 0020 | 00 | 0 | 03540 | | TRA E2B | REPEAT TEST |
| | | | | | | | |
| TEST TIX XR EQUALS DECR | | | | | | | |
| | | | | | | | |
| 03550 | -0534 | 00 | 2 | 06602 | E5B | LXD L1+1,2 | L2 |
| 03551 | 2 | 00002 | 2 | 03553 | | TIX E6B-2,2,2 | |
| 03552 | 0020 | 00 | 0 | 03560 | | TRA E7B | |
| 03553 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03554 | 0000 | 00 | 0 | 03555 | | HTR E6B | |
| 03555 | 0760 | 00 | 0 | 00161 | E6B | SWT 1 | |
| 03556 | 0020 | 00 | 0 | 03560 | | TRA E7B | |
| 03557 | 0020 | 00 | 0 | 03550 | | TRA E5B | REPEAT TEST |
| | | | | | | | |
| 03560 | -0754 | 00 | 2 | 00000 | E7B | PXD 0,2 | TEST XR B |
| 03561 | 0402 | 00 | 0 | 06602 | | SUB L1+1 | L 2 IN DECR |
| 03562 | 0100 | 00 | 0 | 03565 | | TZE E8B-3 | |
| 03563 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03564 | 0000 | 00 | 0 | 03565 | | HTR E8B-3 | |
| 03565 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03566 | 0020 | 00 | 0 | 03570 | | TRA E8B | PROCEED TO NEXT TEST |
| 03567 | 0020 | 00 | 0 | 03560 | | TRA E7B | REPEAT TEST |

TEST TIX XR LESS THEN DECR

| | | | | | | | |
|-------|-------|-------|---|-------|-----|---------------|----------------------|
| 03570 | -0534 | 00 | 2 | 06601 | E8B | LXD L1,2 | L 1 |
| 03571 | 2 | 00002 | 2 | 03573 | | TIX E9B-2,2,2 | |
| 03572 | 0020 | 00 | 0 | 03600 | | TRA F1B | |
| 03573 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03574 | 0000 | 00 | 0 | 03575 | | HTR E9B | |
| 03575 | 0760 | 00 | 0 | 00161 | E9B | SWT 1 | |
| 03576 | 0020 | 00 | 0 | 03600 | | TRA F1B | |
| 03577 | 0020 | 00 | 0 | 03570 | | TRA E8B | REPEAT TEST |
| | | | | | | | |
| 03600 | -0754 | 00 | 2 | 00000 | F1B | PXD 0,2 | TEST XR B |
| 03601 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 03602 | 0100 | 00 | 0 | 03605 | | TZE F2B-3 | |
| 03603 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03604 | 0000 | 00 | 0 | 03605 | | HTR F2B-3 | |
| 03605 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03606 | 0020 | 00 | 0 | 03610 | | TRA F2B | PROCEED TO NEXT TEST |
| 03607 | 0020 | 00 | 0 | 03600 | | TRA F1B | REPEAT TEST |

TEST TNX XR LESS THAN DECR

| | | | | | | | |
|-------|-------|-------|---|-------|-----|-------------|----------------------|
| 03610 | -0534 | 00 | 2 | 06601 | F2B | LXD L1,2 | L 1 |
| 03611 | -2 | 00002 | 2 | 03617 | | TNX F3B,2,2 | |
| 03612 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03613 | 0000 | 00 | 0 | 03614 | | HTR F2B+4 | |
| 03614 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03615 | 0020 | 00 | 0 | 03617 | | TRA F3B | |
| 03616 | 0020 | 00 | 0 | 03610 | | TRA F2B | REPEAT TEST |
| | | | | | | | |
| 03617 | -0754 | 00 | 2 | 00000 | F3B | PXD 0,2 | |
| 03620 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 03621 | 0100 | 00 | 0 | 03624 | | TZE F4B-3 | |
| 03622 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03623 | 0000 | 00 | 0 | 03624 | | HTR F4B-3 | |
| 03624 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 03625 | 0020 | 00 | 0 | 03627 | | TRA F4B | PROCEED TO NEXT TEST |
| 03626 | 0020 | 00 | 0 | 03617 | | TRA F3B | REPEAT TEST |

TEST TNX XR EQUALS DECR

| | | | | | | | |
|-------|-------|-------|---|-------|-----|-------------|---------------------|
| 03627 | -0534 | 00 | 2 | 06601 | F4B | LXD L1,2 | L 1 |
| 03630 | -2 | 00001 | 2 | 03636 | | TNX F5B,2,1 | |
| 03631 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03632 | 0000 | 00 | 0 | 03633 | | HTR F6B | |
| 03633 | 0760 | 00 | 0 | 00161 | F6B | SWT 1 | |
| 03634 | 0020 | 00 | 0 | 03636 | | TRA F5B | |
| 03635 | 0020 | 00 | 0 | 03627 | | TRA F4B | REPEAT TEST |
| | | | | | | | |
| 03636 | -0754 | 00 | 2 | 00000 | F5B | PXD 0,2 | TEST XR B |
| 03637 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 03640 | 0100 | 00 | 0 | 03643 | | TZE F7B-3 | |
| 03641 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 03642 | 0000 | 00 | 0 | 03643 | | HTR F7B-3 | |
| 03643 | 0760 | 00 | 0 | 00161 | | SWT 1 | |

03644 0020 00 0 03646 TRA F7B PROCEED TO NEXT TEST
03645 0020 00 0 03636 TRA F5B REPEAT TEST

TEST TNX XR GREATER THAN DECR

03646 -0534 00 2 06602 F7B LXD L1+1,2 L 2
03647 -2 00001 2 03651 TNX F8B-2,2,1
03650 0020 00 0 03656 TRA F9B
03651 0760 00 0 00162 SWT 2 ERROR-TEST SWITCH 2
03652 0000 00 0 03653 HTR F8B
03653 0760 00 0 00161 F8B SWT 1
03654 0020 00 0 03656 TRA F9B
03655 0020 00 0 03646 TRA F7B REPEAT TEST

03656 -0754 00 2 00000 F9B PXD 0,2 TEST XR A
03657 0402 00 0 06601 SUB L1 L 1 IN DECR
03660 0100 00 0 03663 TZE G1B-3
03661 0760 00 0 00162 SWT 2 ERROR-TEST SWITCH 2
03662 0000 00 0 03663 HTR G1B-3
03663 0760 00 0 00161 SWT 1
03664 0020 00 0 03666 TRA G1B PROCEED TO NEXT TEST
03665 0020 00 0 03656 TRA F9B REPEAT TEST

TEST TSX

03666 0534 00 2 03666 G1B LXA G1B,2 L OWN ADDRESS
03667 0074 00 2 03675 TSX G2B,2
03670 0760 00 0 00162 SWT 2 ERROR-TEST SWITCH 2
03671 0000 00 0 03672 HTR G3B
03672 0760 00 0 00161 G3B SWT 1
03673 0020 00 0 03675 TRA G2B
03674 0020 00 0 03666 TRA G1B REPEAT TEST

03675 -0754 00 2 00000 G2B PXD 0,2 L COMP TSX
LOCATION IN
DECR
03676 0402 00 0 06646 SUB S1B L 007017000000
03677 0100 00 0 03702 TZE G4B-3
03700 0760 00 0 00162 SWT 2 ERROR-TEST SWITCH 2
03701 0000 00 0 03702 HTR G4B-3
03702 0760 00 0 00161 SWT 1
03703 0020 00 0 03705 TRA G4B PROCEED TO NEXT TEST
03704 0020 00 0 03666 TRA G1B REPEAT TEST

TEST TIX FOR COUNTING

03705 0534 00 2 06605 G4B LXA L1+4,2 L 7777
03706 0500 00 0 06605 CLA L1+4 L07777
03707 0760 00 0 00164 SWT 4
03710 0020 00 0 03714 TRA G5B
03711 0760 00 0 00163 SWT 3
03712 0020 00 0 03717 TRA G6B
03713 0020 00 0 03723 TRA G7B

03714 0402 00 0 06606 G5B SUB L1+5 L 00001
03715 2 00001 2 03714 TIX G5B,2,1

| | | | | | | | | | |
|-------|------|-------|---|-------|-----|-----|-----------|--------|----------------------|
| 03716 | 0020 | 00 | 0 | 03727 | | TRA | G8B | | |
| 03717 | 0402 | 00 | 0 | 06616 | G6B | SUB | L1+13 | L | 00100 |
| 03720 | 2 | 00100 | 2 | 03717 | | TIX | G6B,2,64 | | |
| 03721 | 0400 | 00 | 0 | 06616 | | ADD | L1+13 | L00100 | |
| 03722 | 0020 | 00 | 0 | 03714 | | TRA | G5B | | |
| 03723 | 0402 | 00 | 0 | 06615 | G7B | SUB | L1+12 | L | 1000 |
| 03724 | 2 | 01000 | 2 | 03723 | | TIX | G7B,2,512 | | |
| 03725 | 0400 | 00 | 0 | 06615 | | ADD | L1+12 | L | 1000 |
| 03726 | 0020 | 00 | 0 | 03717 | | TRA | G6B | | |
| 03727 | 0100 | 00 | 0 | 03732 | G8B | TZE | G9B-3 | | TO NEXT TEST |
| | | | | | | | | | |
| 03730 | 0760 | 00 | 0 | 00162 | | SWT | 2 | | ERROR-TEST SWITCH 2 |
| 03731 | 0000 | 00 | 0 | 03732 | | HTR | G9B-3 | | |
| 03732 | 0760 | 00 | 0 | 00161 | | SWT | 1 | | |
| 03733 | 0020 | 00 | 0 | 03735 | | TRA | G9B | | PROCEED TO NEXT TEST |
| 03734 | 0020 | 00 | 0 | 03705 | | TRA | G4B | | REPEAT TEST |

TEST TNX FOR COUNTING

| | | | | | | | | | |
|-------|------|-------|---|-------|-----|-----|-----------|--------|----------------------|
| 03735 | 0534 | 00 | 2 | 06605 | G9B | LXA | L1+4,2 | L | 7777 |
| 03736 | 0500 | 00 | 0 | 06607 | | CLA | L1+6 | L | 07776 |
| 03737 | 0760 | 00 | 0 | 00164 | | SWT | 4 | | |
| 03740 | 0020 | 00 | 0 | 03744 | | TRA | H1B | | |
| 03741 | 0760 | 00 | 0 | 00163 | | SWT | 3 | | |
| 03742 | 0020 | 00 | 0 | 03747 | | TRA | H2B | | |
| 03743 | 0020 | 00 | 0 | 03752 | | TRA | H3B | | |
| | | | | | | | | | |
| 03744 | -2 | 00001 | 2 | 03755 | H1B | TNX | H5B,2,1 | | |
| 03745 | 0402 | 00 | 0 | 06606 | | SUB | L1+5 | L00001 | |
| 03746 | 0020 | 00 | 0 | 03744 | | TRA | H1B | | |
| 03747 | -2 | 00100 | 2 | 03744 | H2B | TNX | H1B,2,64 | | |
| 03750 | 0402 | 00 | 0 | 06616 | | SUB | L1+13 | L00100 | |
| 03751 | 0020 | 00 | 0 | 03747 | | TRA | H2B | | |
| 03752 | -2 | 01000 | 2 | 03747 | H3B | TNX | H2B,2,512 | | |
| 03753 | 0402 | 00 | 0 | 06615 | | SUB | L1+12 | L | 1000 |
| 03754 | 0020 | 00 | 0 | 03752 | H4B | TRA | H3B | | |
| 03755 | 0100 | 00 | 0 | 03760 | H5B | TZE | H6B-3 | | TO NEXT TEST |
| | | | | | | | | | |
| 03756 | 0760 | 00 | 0 | 00162 | | SWT | 2 | | ERROR-TEST SWITCH 2 |
| 03757 | 0000 | 00 | 0 | 03760 | | HTR | H6B-3 | | |
| 03760 | 0760 | 00 | 0 | 00161 | | SWT | 1 | | |
| 03761 | 0020 | 00 | 0 | 03763 | | TRA | H6B | | PROCEED TO NEXT TEST |
| 03762 | 0020 | 00 | 0 | 03735 | | TRA | G9B | | REPEAT TEST |

TEST TXI FOR COUNTING

| | | | | | | | | | |
|-------|------|----|---|-------|-----|-----|--------|---|-------------------------|
| 03763 | 0534 | 00 | 2 | 06612 | H6B | LXA | L1+9,2 | L | 00000 |
| 03764 | 0500 | 00 | 0 | 06610 | | CLA | L1+7 | L | DEPENDS ON SIZE OF STG. |
| 03765 | 0760 | 00 | 0 | 00164 | | SWT | 4 | | |
| 03766 | 0020 | 00 | 0 | 03773 | | TRA | H7B | | |
| 03767 | 0760 | 00 | 0 | 00163 | | SWT | 3 | | |
| 03770 | 0020 | 00 | 0 | 03776 | | TRA | H8B | | |
| 03771 | 0020 | 00 | 0 | 04000 | | TRA | H9B | | |
| | | | | | | | | | |
| 03772 | 0100 | 00 | 0 | 04003 | J2B | TZE | J1B | | |
| 03773 | 0402 | 00 | 0 | 06606 | H7B | SUB | L1+5 | L | 1 |

| | | | | | | | | |
|---|-------|-------|---|-------|-----|-----|------------|--|
| 03774 | 1 | 00001 | 2 | 03772 | | TXI | J2B,2,1 | |
| 03775 | 3 | 07600 | 2 | 03772 | J3B | TXH | J2B,2,3968 | |
| 03776 | 0402 | 00 | 0 | 06616 | H8B | SUB | L1+13 | L 00100 |
| 03777 | 1 | 00100 | 2 | 03775 | | TXI | J3B,2,64 | |
| 04000 | 3 | 06000 | 2 | 03776 | H9B | TXH | H8B,2,3072 | |
| 04001 | 0402 | 00 | 0 | 06615 | | SUB | L1+12 | L 1000 |
| 04002 | 1 | 01000 | 2 | 04000 | | TXI | H9B,2,512 | |
| | | | | | | | | |
| 04003 | -0754 | 00 | 2 | 00000 | J1B | PXD | 0,2 | |
| 04004 | 0100 | 00 | 0 | 04007 | | TZE | J4B-3 | TO NEXT TEST |
| | | | | | | | | |
| 04005 | 0760 | 00 | 0 | 00162 | | SWT | 2 | ERROR-TEST SWITCH 2 |
| 04006 | 0000 | 00 | 0 | 04007 | | HTR | J4B-3 | |
| 04007 | 0760 | 00 | 0 | 00161 | | SWT | 1 | |
| 04010 | 0020 | 00 | 0 | 04012 | | TRA | J4B | PROCEED TO NEXT TEST |
| 04011 | 0020 | 00 | 0 | 03763 | | TRA | H6B | REPEAT TEST |
| | | | | | | | | |
| TEST ADR MODIFICATION FOR ALL POSITIONS IN MEMORY | | | | | | | | |
| | | | | | | | | |
| 04012 | 0760 | 00 | 0 | 00000 | J4B | CLM | | |
| 04013 | 0621 | 00 | 0 | 04016 | | STA | J5B | |
| 04014 | 0534 | 00 | 2 | 06605 | | LXA | L1+4,2 | L 7777 |
| 04015 | 0500 | 00 | 2 | 07777 | J7B | CLA | 4095,2 | |
| 04016 | 0402 | 00 | 0 | 00000 | J5B | SUB | 0 | |
| 04017 | -0100 | 00 | 0 | 04025 | | TNZ | J6B-2 | |
| 04020 | 0500 | 00 | 0 | 04016 | | CLA | J5B | |
| 04021 | 0400 | 00 | 0 | 06606 | | ADD | L1+5 | L1 |
| 04022 | 0621 | 00 | 0 | 04016 | | STA | J5B | MODIFY ADDR. |
| 04023 | 2 | 00001 | 2 | 04015 | | TIX | J7B,2,1 | |
| 04024 | 0020 | 00 | 0 | 04027 | | TRA | J6B | |
| 04025 | 0760 | 00 | 0 | 00162 | | SWT | 2 | ERROR-TEST SWITCH 2 |
| 04026 | 0000 | 00 | 0 | 04027 | | HTR | J6B | |
| 04027 | 0760 | 00 | 0 | 00161 | J6B | SWT | 1 | |
| 04030 | 0020 | 00 | 0 | 04032 | | TRA | M1B-2 | |
| 04031 | 0020 | 00 | 0 | 04012 | | TRA | J4B | |
| | | | | | | | | |
| 04032 | 0760 | 00 | 0 | 00165 | | SWT | 5 | |
| 04033 | 0020 | 00 | 0 | 04070 | | TRA | N1B-2 | GO TO NEXT TEST |
| 04034 | 0560 | 00 | 0 | 06621 | M1B | LDQ | M | CLEAR MQ SSW 5 DOWN TEST HPR AND TSX INST |
| 04035 | 0420 | 00 | 0 | 00000 | | HPR | | KEY IN TSX INST. INTO MQ WITH ADDR OF M4 TAG A |
| 04036 | 0020 | 00 | 0 | 04044 | | TRA | M2B | O K |
| 04037 | 0760 | 00 | 0 | 00162 | | SWT | 2 | ERROR-TEST SWITCH 2 |
| 04040 | 0000 | 00 | 0 | 04041 | | HTR | M2B-3 | |
| 04041 | 0760 | 00 | 0 | 00161 | | SWT | 1 | |
| 04042 | 0020 | 00 | 0 | 04044 | | TRA | M2B | |
| 04043 | 0020 | 00 | 0 | 04034 | | TRA | M1B | RE-LOOP |
| | | | | | | | | |
| 04044 | -0600 | 00 | 0 | 06654 | M2B | STQ | S7B | CHECK TSX INST |
| 04045 | 0500 | 00 | 0 | 06654 | | CLA | S7B | |
| 04046 | 0402 | 00 | 0 | 06650 | | SUB | S3B | |

| | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|----------------------------------|
| 04047 | 0100 | 00 | 0 | 04052 | | TZE M3B-3 | TRANSFER ON ZERO O K |
| 04050 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04051 | 0000 | 00 | 0 | 04052 | | HTR M3B-3 | |
| 04052 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04053 | 0020 | 00 | 0 | 04055 | | TRA M3B | |
| 04054 | 0020 | 00 | 0 | 04034 | | TRA M1B | ERROR ON TSX TEST |
| 04055 | 0420 | 00 | 0 | 00000 | M3B | HPR | EXECUTE TSX INST TO M4B TAG B |
| 04056 | 0020 | 00 | 0 | 04063 | | TRA M4B+3 | DID NOT EXECUTE TSX |
| 04057 | 0020 | 00 | 0 | 04063 | | TRA M4B+3 | ERROR |
| 04060 | -0754 | 00 | 2 | 00000 | M4B | PXD 0,2 | |
| 04061 | 0402 | 00 | 0 | 06651 | | SUB S4B | |
| 04062 | 0100 | 00 | 0 | 04065 | | TZE N1B-5 | OK |
| 04063 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04064 | 0000 | 00 | 0 | 04065 | | HTR M4B+5 | |
| 04065 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04066 | 0020 | 00 | 0 | 04070 | | TRA N1B-2 | PROCEED TO NEXT TEST |
| 04067 | 0020 | 00 | 0 | 04055 | | TRA M3B | REPEAT TEST |

TEST-PLACE INDEX IN ADDRESS

| | | | | | | | |
|-------|------|----|---|-------|-----|------------|------------------------------|
| 04070 | 0500 | 00 | 0 | 06632 | | CLA K0+2 | L-377777777777 |
| 04071 | 0534 | 00 | 2 | 06630 | | LXA K0,2 | L +0 |
| 04072 | 0754 | 00 | 2 | 00000 | N1B | PXA 0,2 | CHECK CLEARING ACC |
| 04073 | 0100 | 00 | 0 | 04076 | | TZE N2B-5 | |
| 04074 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04075 | 0000 | 00 | 0 | 04076 | | HTR N2B-5 | |
| 04076 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04077 | 0020 | 00 | 0 | 04101 | | TRA N2B-2 | |
| 04100 | 0020 | 00 | 0 | 04070 | | TRA N1B-2 | REPEAT TEST |
| 04101 | 0500 | 00 | 0 | 06632 | | CLA K0+2 | L ALL ONES |
| 04102 | 0534 | 00 | 2 | 06631 | | LXA K0+1,2 | L +1 |
| 04103 | 0754 | 00 | 2 | 00000 | N2B | PXA 0,2 | CHECK CLEAR ALL BUT ADR |
| 04104 | 0402 | 00 | 0 | 06631 | | SUB K0+1 | L +1 |
| 04105 | 0100 | 00 | 0 | 04110 | | TZE N3B-4 | |
| 04106 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04107 | 0000 | 00 | 0 | 04110 | | HTR N3B-4 | |
| 04110 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04111 | 0020 | 00 | 0 | 04113 | | TRA N3B-1 | |
| 04112 | 0020 | 00 | 0 | 04101 | | TRA N2B-2 | REPEAT TEST |
| 04113 | 0534 | 00 | 2 | 06635 | | LXA K0+5,2 | L DEPENDS ON SIZE OF STG |
| 04114 | 0754 | 00 | 2 | 00000 | N3B | PXA 0,2 | CHECK ALL POSITIONS |
| 04115 | 0402 | 00 | 0 | 06605 | | SUB L1+4 | L 07777, 17777, 37777, 77777 |
| 04116 | 0100 | 00 | 0 | 04121 | | TZE N3B+5 | |
| 04117 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04120 | 0000 | 00 | 0 | 04121 | | HTR N3B+5 | |
| 04121 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04122 | 0020 | 00 | 0 | 04124 | | TRA M10B-2 | NEXT SECTION |
| 04123 | 0020 | 00 | 0 | 04113 | | TRA N3B-1 | REPEAT TEST |

TEST-XRB, PXA AND COMP.

| | | | | | | | |
|-------|-------|----|---|-------|------|------------|---------------------------|
| 04124 | 0500 | 00 | 0 | 06632 | | CLA K0+2 | L ALL ONES |
| 04125 | 0534 | 00 | 2 | 06605 | | LXA L1+4,2 | L 7777 |
| 04126 | 0754 | 00 | 2 | 00000 | M10B | PXA 0,2 | |
| 04127 | 0760 | 00 | 0 | 00006 | | COM | |
| 04130 | -0763 | 00 | 0 | 00002 | | LGL 2 | TO ELIMINATE P AND Q BITS |
| 04131 | -0765 | 00 | 0 | 00002 | | LGR 2 | |
| 04132 | 0140 | 00 | 0 | 04133 | | TOV *+1 | TURN OFF OVERFLOW LIGHT |
| 04133 | 0600 | 00 | 0 | 06623 | | STZ M+2 | CLEAR TEMP STG. |
| 04134 | 0621 | 00 | 0 | 06623 | | STA M+2 | |
| 04135 | 0402 | 00 | 0 | 06730 | | SUB Y | L 3777777770000 |
| 04136 | 0100 | 00 | 0 | 04141 | | TZE M11B | OK-TEST SWITCH 1 |
| 04137 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04140 | 0000 | 00 | 0 | 04141 | | HTR M11B | HALT ON ERROR |
| 04141 | 0760 | 00 | 0 | 00161 | M11B | SWT 1 | |
| 04142 | 0020 | 00 | 0 | 04144 | | TRA M12B | NEXT SECTION |
| 04143 | 0020 | 00 | 0 | 04124 | | TRA M10B-2 | REPEAT |

TEST-STA AFTER PXA COMP.

| | | | | | | | |
|-------|------|----|---|-------|------|------------|---------------------|
| 04144 | 0500 | 00 | 0 | 06623 | M12B | CLA M+2 | RESULTS STA |
| 04145 | 0402 | 00 | 0 | 06731 | | SUB Z | TEST STA |
| 04146 | 0100 | 00 | 0 | 04151 | | TZE M12B+5 | OK-TEST SWITCH 1 |
| 04147 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04150 | 0000 | 00 | 0 | 04151 | | HTR M12B+5 | HALT ON ERROR |
| 04151 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04152 | 0020 | 00 | 0 | 04154 | | TRA N4B-2 | NEXT SECTION |
| 04153 | 0020 | 00 | 0 | 04124 | | TRA M10B-2 | REPEAT |

TEST STORE INDEX IN ADDRESS

| | | | | | | | |
|-------|-------|----|---|-------|-----|------------|----------------------------|
| 04154 | 0534 | 00 | 2 | 06631 | | LXA K0+1,2 | L +1 |
| 04155 | 0600 | 00 | 0 | 06645 | | STZ T1 | BLANK TEMP STG |
| 04156 | 0634 | 00 | 2 | 06645 | N4B | SXA T1,2 | PUT 1 IN ADR OF STORAGE |
| 04157 | 0500 | 00 | 0 | 06645 | | CLA T1 | L 0 |
| 04160 | 0402 | 00 | 0 | 06631 | | SUB K0+1 | L +1 |
| 04161 | -0100 | 00 | 0 | 04165 | | TNZ N4B+7 | |
| 04162 | 0754 | 00 | 2 | 00000 | | PXA 0,2 | CHECK IF INDEX HAS CHANGED |
| 04163 | 0402 | 00 | 0 | 06631 | | SUB K0+1 | L +1 |
| 04164 | 0100 | 00 | 0 | 04167 | | TZE N5B-9 | |
| 04165 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04166 | 0000 | 00 | 0 | 04167 | | HTR N5B-9 | |
| 04167 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04170 | 0020 | 00 | 0 | 04172 | | TRA N5B-6 | |
| 04171 | 0020 | 00 | 0 | 04154 | | TRA N4B-2 | REPEAT TEST |
| 04172 | -0500 | 00 | 0 | 06635 | | CAL K0+5 | L -3077777707777 |
| 04173 | 0767 | 00 | 0 | 00022 | | ALS 18 | CLEAR ACC. ADDR. AND TAG |
| 04174 | 0602 | 00 | 0 | 06645 | | SLW T1 | |
| 04175 | -0500 | 00 | 0 | 06632 | | CAL K0+2 | TO BRING IN TAG OF 7 |
| 04176 | 0625 | 00 | 0 | 06645 | | STT T1 | |
| 04177 | 0534 | 00 | 2 | 06635 | | LXA K0+5,2 | L DEPENDS ON SIZE OF STG |
| 04200 | 0634 | 00 | 2 | 06645 | N5B | SXA T1,2 | CHECK ALL POSITIONS |
| 04201 | 0500 | 00 | 0 | 06645 | | CLA T1 | |

| | | | | | | | | |
|-------|------|----|---|-------|-----|-------|---|------------------------|
| 04202 | 0402 | 00 | 0 | 06635 | SUB | K0+5 | L | DEPENDS ON SIZE OF STG |
| 04203 | 0100 | 00 | 0 | 04206 | TZE | N6B-5 | | |
| 04204 | 0760 | 00 | 0 | 00162 | SWT | 2 | | ERROR-TEST SWITCH 2 |
| 04205 | 0000 | 00 | 0 | 04206 | HTR | N6B-5 | | |
| 04206 | 0760 | 00 | 0 | 00161 | SWT | 1 | | |
| 04207 | 0020 | 00 | 0 | 04211 | TRA | N6B-2 | | PROCEED TO NEXT TEST |
| 04210 | 0020 | 00 | 0 | 04172 | TRA | N5B-6 | | |

TEST-PLACE 2S COMP OF ADR IN XR

| | | | | | | | | |
|-------|-------|----|---|-------|-----|--------|-----|------------------------|
| 04211 | 0500 | 00 | 0 | 06636 | CLA | K0+6 | L | 345252742525 |
| 04212 | 0534 | 00 | 2 | 06636 | LXA | K0+6,2 | L | 42525 |
| 04213 | 0737 | 00 | 2 | 00000 | N6B | PAC | 0,2 | |
| 04214 | 0402 | 00 | 0 | 06636 | SUB | K0+6 | | CHECK ACC UNCHANGED |
| 04215 | -0100 | 00 | 0 | 04221 | TNZ | N6B+6 | | NG |
| 04216 | -0754 | 00 | 2 | 00000 | PXD | 0,2 | | CHECK XR |
| 04217 | 0402 | 00 | 0 | 06637 | SUB | K0+7 | L | DEPENDS ON SIZE OF STG |
| 04220 | 0100 | 00 | 0 | 04223 | TZE | N7B-5 | | |
| 04221 | 0760 | 00 | 0 | 00162 | SWT | 2 | | ERROR-TEST SWITCH 2 |
| 04222 | 0000 | 00 | 0 | 04223 | HTR | N7B-5 | | |
| 04223 | 0760 | 00 | 0 | 00161 | SWT | 1 | | |
| 04224 | 0020 | 00 | 0 | 04226 | TRA | N7B-2 | | |
| 04225 | 0020 | 00 | 0 | 04211 | TRA | N6B-2 | | |

TEST-PLACE 2S COMP OF DECR IN XR

| | | | | | | | | |
|-------|-------|----|---|-------|-----|--------|-----|------------------------|
| 04226 | 0500 | 00 | 0 | 06636 | CLA | K0+6 | L | 345252742525 |
| 04227 | -0534 | 00 | 2 | 06636 | LXD | K0+6,2 | L | 45252 |
| 04230 | -0737 | 00 | 2 | 00000 | N7B | PDC | 0,2 | |
| 04231 | 0402 | 00 | 0 | 06636 | SUB | K0+6 | | CHECK ACC UNCHANGED |
| 04232 | -0100 | 00 | 0 | 04236 | TNZ | N7B+6 | | NG |
| 04233 | -0754 | 00 | 2 | 00000 | PXD | 0,2 | | CHECK XR |
| 04234 | 0402 | 00 | 0 | 06640 | SUB | K0+8 | L | DEPENDS ON SIZE OF STG |
| 04235 | 0100 | 00 | 0 | 04240 | TZE | N10B-4 | | |
| 04236 | 0760 | 00 | 0 | 00162 | SWT | 2 | | ERROR-TEST SWITCH 2 |
| 04237 | 0000 | 00 | 0 | 04240 | HTR | N10B-4 | | |
| 04240 | 0760 | 00 | 0 | 00161 | SWT | 1 | | |
| 04241 | 0020 | 00 | 0 | 04243 | TRA | N10B-1 | | PROCEED TO NEXT TEST |
| 04242 | 0020 | 00 | 0 | 04226 | TRA | N7B-2 | | REPEAT TEST |

TEST-LOAD ADR 2S COMP IN INDEX

| | | | | | | | | | |
|-------|-------|----|---|-------|------|--------|--------|------------------------|------------------------|
| 04243 | 0534 | 00 | 2 | 06635 | N10B | LXA | K0+5,2 | L | DEPENDS ON SIZE OF STG |
| 04244 | 0535 | 00 | 2 | 06636 | LAC | K0+6,2 | L | 42525 | |
| 04245 | -0754 | 00 | 2 | 00000 | PXD | 0,2 | | BRING BACK XR | |
| 04246 | 0402 | 00 | 0 | 06637 | SUB | K0+7 | L | DEPENDS ON SIZE OF STG | |
| 04247 | 0100 | 00 | 0 | 04252 | TZE | N11B-4 | | | |
| 04250 | 0760 | 00 | 0 | 00162 | SWT | 2 | | ERROR-TEST SWITCH 2 | |
| 04251 | 0000 | 00 | 0 | 04252 | HTR | N11B-4 | | | |
| 04252 | 0760 | 00 | 0 | 00161 | SWT | 1 | | | |
| 04253 | 0020 | 00 | 0 | 04255 | TRA | N11B-1 | | PROCEED TO NEXT TEST | |
| 04254 | 0020 | 00 | 0 | 04243 | TRA | N10B-1 | | REPEAT TEST | |

TEST-LOAD DECR 2S COMP IN INDEX

| | | | | | | | |
|-------|-------|----|---|-------|------|------------|--------------------------|
| 04255 | 0534 | 00 | 2 | 06635 | | LXA K0+5,2 | L DEPENDS ON SIZE OF STG |
| 04256 | -0535 | 00 | 2 | 06636 | N11B | LDC K0+6,2 | L 45252 |
| 04257 | -0754 | 00 | 2 | 00000 | | PXD 0,2 | BRING BACK XR |
| 04260 | 0402 | 00 | 0 | 06640 | | SUB K0+8 | L DEPENDS ON SIZE OF STG |
| 04261 | 0100 | 00 | 0 | 04264 | | TZE N12B-5 | |
| 04262 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04263 | 0000 | 00 | 0 | 04264 | | HTR N12B-5 | |
| 04264 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04265 | 0020 | 00 | 0 | 04267 | | TRA N12B-2 | PROCEED TO NEXT TEST |
| 04266 | 0020 | 00 | 0 | 04255 | | TRA N11B-1 | REPEAT TEST |

TEST-LOAD OWN ADDRESS IN XR

| | | | | | | | |
|-------|-------|----|---|-------|------|-------------|--------------------------|
| 04267 | 0500 | 00 | 0 | 06630 | | CLA K0 | L+0 |
| 04270 | 0534 | 00 | 2 | 06635 | | LXA K0+5,2 | L DEPENDS ON SIZE OF STG |
| 04271 | 0774 | 00 | 2 | 35253 | N12B | AXT 15019,2 | PUT 35253 IN XR |
| 04272 | -0754 | 00 | 2 | 00000 | | PXD 0,2 | BRING BACK XR |
| 04273 | 0402 | 00 | 0 | 06637 | | SUB K0+7 | L DEPENDS ON SIZE OF STG |
| 04274 | 0100 | 00 | 0 | 04277 | | TZE N13B-5 | |
| 04275 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04276 | 0000 | 00 | 0 | 04277 | | HTR N13B-5 | |
| 04277 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04300 | 0020 | 00 | 0 | 04302 | | TRA N13B-2 | PROCEED TO NEXT TEST |
| 04301 | 0020 | 00 | 0 | 04267 | | TRA N12B-2 | REPEAT TEST |

TEST-LOAD COMP OF OWN ADDRESS

| | | | | | | | |
|-------|-------|----|---|-------|------|-------------|--------------------------|
| 04302 | 0500 | 00 | 0 | 06630 | | CLA K0 | L+0 |
| 04303 | 0534 | 00 | 2 | 06635 | | LXA K0+5,2 | L DEPENDS ON SIZE OF STG |
| 04304 | -0774 | 00 | 2 | 42525 | N13B | AXC 17749,2 | PUT 35253 IN XRA |
| 04305 | -0754 | 00 | 2 | 00000 | | PXD 0,2 | BRING BACK XR |
| 04306 | 0402 | 00 | 0 | 06637 | | SUB K0+7 | L DEPENDS ON SIZE OF STG |
| 04307 | 0100 | 00 | 0 | 04312 | | TZE L5C-3 | |
| 04310 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04311 | 0000 | 00 | 0 | 04312 | | HTR L5C-3 | |
| 04312 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04313 | 0020 | 00 | 0 | 04315 | | TRA L5C | PROCEED TO NEXT TEST |
| 04314 | 0020 | 00 | 0 | 04302 | | TRA N13B-2 | REPEAT TEST |

TEST XRC

COMMENCE TEST

TEST THAT NO INDEX TAG LEAVES ADR UNALTERED

| | | | | | | | |
|-------|------|----|---|-------|-----|-----------|----------------------|
| 04315 | 0500 | 00 | 0 | 04341 | L5C | CLA L9C+1 | L PXD 0,4 |
| 04316 | 0402 | 00 | 0 | 04352 | | SUB A1C+2 | L PXD 0,4 |
| 04317 | 0100 | 00 | 0 | 04322 | | TZE L7C-3 | |
| 04320 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04321 | 0000 | 00 | 0 | 04322 | | HTR L7C-3 | |
| 04322 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04323 | 0020 | 00 | 0 | 04325 | | TRA L7C | PROCEED TO NEXT TEST |

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04324 0020 00 0 04315      TRA L5C      REPEAT TEST

                                TEST THAT XR IS RESET TO ZERO IF ADR
                                ARE BEING MODIFIED

04325 0761 00 0 00000      L7C  NOP
04326 0534 00 4 06601      L8C  LXA L1,4      L 0
04327 0500 00 0 04325      CLA L7C
04330 0402 00 4 04325      SUB L7C,4
04331 0100 00 0 04334      TZE L9C-4
04332 0760 00 0 00162      SWT 2      ERROR-TEST SWITCH 2
04333 0000 00 0 04334      HTR L9C-4
04334 0760 00 0 00161      SWT 1
04335 0020 00 0 04337      TRA L9C-1    PROCEED TO NEXT TEST
04336 0020 00 0 04326      TRA L8C      REPEAT TEST

                                TEST PLACE XR C IN DECR

04337 0534 00 4 06601      L9C  LXA L1,4      L 0
04340 0500 00 0 04315      CLA L5C
04341 -0754 00 4 00000      PXD 0,4
04342 0100 00 0 04345      TZE A1C-3
04343 0760 00 0 00162      SWT 2      ERROR-TEST SWITCH 2
04344 0000 00 0 04345      HTR A1C-3
04345 0760 00 0 00161      SWT 1
04346 0020 00 0 04350      TRA A1C      NEXT SECTION
04347 0020 00 0 04337      TRA L9C-1    REPEAT TEST

                                TEST LXD AND PXD WITH XR B

04350 0500 00 0 04315      A1C  CLA L5C
04351 -0534 00 4 06601      LXD L1,4      LOAD XRC
                                WITH 1
04352 -0754 00 4 00000      PXD 0,4
04353 0402 00 0 06601      SUB L1      L DECR OF 1
04354 0100 00 0 04357      TZE A1C+7
04355 0760 00 0 00162      SWT 2      ERROR-TEST SWITCH 2
04356 0000 00 0 04357      HTR A1C+7
04357 0760 00 0 00161      SWT 1
04360 0020 00 0 04362      TRA A10C-1   PROCEED TO NEXT TEST
04361 0020 00 0 04350      TRA A1C      REPEAT TEST

                                TEST-XRC, PXD AND COMP.

04362 0534 00 4 06632      A10C LXA K0+2,4    L 7777
04363 0500 00 0 06632      CLA K0+2
04364 -0754 00 4 00000      PXD 0,4
04365 0760 00 0 00006      COM
04366 -0763 00 0 00002      LGL 2      TO ELIMINATE P AND Q BITS
04367 -0765 00 0 00002      LGR 2
04370 0140 00 0 04371      TOV *+1     TURN OFF OVERFLOW LIGHT
04371 0600 00 0 06623      STZ M+2     CLEAR TEMP. STORAGE
04372 0622 00 0 06623      STD M+2
04373 0402 00 0 06726      SUB W      L 370000777777
04374 0100 00 0 04377      TZE A11C-3   OK-TEST SWITCH 1

```

| | | | | | | | |
|-------|------|----|---|-------|--|------------|---------------------|
| 04375 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04376 | 0000 | 00 | 0 | 04377 | | HTR A11C-3 | HALT ON ERROR |
| 04377 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04400 | 0020 | 00 | 0 | 04402 | | TRA A11C | NEXT SECTION |
| 04401 | 0020 | 00 | 0 | 04362 | | TRA A10C-1 | REPEAT |

TEST-STD AFTER PXD COMP.

| | | | | | | | |
|-------|------|----|---|-------|------|------------|---------------------|
| 04402 | 0500 | 00 | 0 | 06623 | A11C | CLA M+2 | RESULTS STD |
| 04403 | 0402 | 00 | 0 | 06727 | | SUB X | TEST STD |
| 04404 | 0100 | 00 | 0 | 04407 | | TZE A11C+5 | OK-TEST SWITCH 1 |
| 04405 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04406 | 0000 | 00 | 0 | 04407 | | HTR A11C+5 | HALT ON ERROR |
| 04407 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04410 | 0020 | 00 | 0 | 04412 | | TRA A2C | NEXT SECTION |
| 04411 | 0020 | 00 | 0 | 04362 | | TRA A10C-1 | REPEAT SECTION |

TEST LXD AND PXD WITH XR C

| | | | | | | | |
|-------|-------|----|---|-------|-----|------------|----------------------|
| 04412 | 0500 | 00 | 0 | 04315 | A2C | CLA L5C | |
| 04413 | -0534 | 00 | 4 | 06602 | | LXD L1+1,4 | LOAD XRC WITH 2 |
| 04414 | -0754 | 00 | 4 | 00000 | | PXD 0,4 | |
| 04415 | 0402 | 00 | 0 | 06602 | | SUB L1+1 | L DECR OF 2 |
| 04416 | 0100 | 00 | 0 | 04421 | | TZE A3C-3 | |
| 04417 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04420 | 0000 | 00 | 0 | 04421 | | HTR A3C-3 | |
| 04421 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04422 | 0020 | 00 | 0 | 04424 | | TRA A3C | PROCEED TO NEXT TEST |
| 04423 | 0020 | 00 | 0 | 04412 | | TRA A2C | REPEAT TEST |

TEST ADR MODIFICATION USING XR C

| | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|------------------------|
| 04424 | -0534 | 00 | 4 | 06601 | A3C | LXD L1,4 | L 1 |
| 04425 | 0500 | 00 | 4 | 04425 | A4C | CLA A4C,4 | |
| 04426 | 0402 | 00 | 0 | 04424 | | SUB A3C | |
| 04427 | 0100 | 00 | 0 | 04432 | | TZE A5C-3 | |
| 04430 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04431 | 0000 | 00 | 0 | 04432 | | HTR A5C-3 | |
| 04432 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04433 | 0020 | 00 | 0 | 04435 | | TRA A5C | |
| 04434 | 0020 | 00 | 0 | 04424 | | TRA A3C | REPEAT TEST |
| 04435 | -0754 | 00 | 4 | 00000 | A5C | PXD 0,4 | TEST CONTENT OF XRB |
| 04436 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 04437 | 0100 | 00 | 0 | 04442 | | TZE A6C-3 | |
| 04440 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04441 | 0000 | 00 | 0 | 04442 | | HTR A6C-3 | |
| 04442 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04443 | 0020 | 00 | 0 | 04445 | | TRA A6C | PROCEED TO NEXT TEST |
| 04444 | 0020 | 00 | 0 | 04424 | | TRA A3C | REPEAT TEST |

TEST TXI WITH XR C

| | | | | | | | |
|-------|-------|----|---|-------|-----|----------|-----|
| 04445 | -0534 | 00 | 4 | 06601 | A6C | LXD L1,4 | L 1 |
|-------|-------|----|---|-------|-----|----------|-----|

| | | | | | | | |
|--------------------|-------|-------|---|-------|-----|-------------|------------------------------------|
| 04446 | 1 | 00001 | 4 | 04455 | | TXI A9C,4,1 | |
| 04447 | 0020 | 00 | 0 | 04450 | | TRA A8C-2 | |
| 04450 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04451 | 0000 | 00 | 0 | 04452 | | HTR A8C | |
| 04452 | 0760 | 00 | 0 | 00161 | A8C | SWT 1 | |
| 04453 | 0020 | 00 | 0 | 04455 | | TRA A9C | |
| 04454 | 0020 | 00 | 0 | 04445 | | TRA A6C | REPEAT TEST |
| | | | | | | | |
| 04455 | -0754 | 00 | 4 | 00000 | A9C | PXD 0,4 | |
| 04456 | 0402 | 00 | 0 | 06602 | | SUB L1+1 | L 2 IN DECR |
| 04457 | 0100 | 00 | 0 | 04462 | | TZE B1C-3 | |
| 04460 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04461 | 0000 | 00 | 0 | 04462 | | HTR B1C-3 | |
| 04462 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04463 | 0020 | 00 | 0 | 04465 | | TRA B1C | PROCEED TO NEXT TEST |
| 04464 | 0020 | 00 | 0 | 04455 | | TRA A9C | REPEAT TEST |
| | | | | | | | |
| TEST SXD WITH XR C | | | | | | | |
| | | | | | | | |
| 04465 | -0534 | 00 | 4 | 04507 | B1C | LXD B2C,4 | L DECR 2 |
| 04466 | -0634 | 00 | 4 | 04506 | | SXD B3C,4 | |
| 04467 | 0500 | 00 | 0 | 04506 | | CLA B3C | |
| 04470 | 0402 | 00 | 0 | 04507 | | SUB B2C | |
| 04471 | 0100 | 00 | 0 | 04477 | | TZE B4C | |
| 04472 | 0500 | 00 | 0 | 04505 | | CLA B5C | TEST IF SXD IS BEING INDEXED |
| | | | | | | | |
| 04473 | 0402 | 00 | 0 | 04507 | | SUB B2C | |
| 04474 | -0100 | 00 | 0 | 04475 | | TNZ B6C | |
| 04475 | 0760 | 00 | 0 | 00162 | B6C | SWT 2 | ERROR-TEST SWITCH 2 |
| 04476 | 0000 | 00 | 0 | 04477 | | HTR B4C | CHECK ACC FOR TYPE OF ERROR |
| 04477 | 0500 | 00 | 0 | 06665 | B4C | CLA S10C | RESET TEMP. STG. |
| 04500 | 0601 | 00 | 0 | 04505 | | STO B5C | |
| 04501 | 0601 | 00 | 0 | 04506 | | STO B3C | |
| 04502 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04503 | 0020 | 00 | 0 | 04510 | | TRA B7C | PROCEED TO NEXT TEST |
| 04504 | 0020 | 00 | 0 | 04465 | | TRA B1C | REPEAT TEST |
| | | | | | | | |
| 04505 | 1 | 00014 | 4 | 00002 | B5C | TXI 2,4,12 | CONSTANTS |
| 04506 | 1 | 00014 | 4 | 00002 | B3C | TXI 2,4,12 | |
| 04507 | 1 | 00002 | 4 | 00002 | B2C | TXI 2,4,2 | |
| | | | | | | | |
| TEST PDX WITH XR C | | | | | | | |
| | | | | | | | |
| 04510 | -0534 | 00 | 4 | 06601 | B7C | LXD L1,4 | L1 |
| 04511 | 0760 | 00 | 0 | 00000 | | CLM | |
| 04512 | -0734 | 00 | 4 | 00000 | | PDX 0,4 | |
| 04513 | -0754 | 00 | 4 | 00000 | | PXD 0,4 | |
| 04514 | 0100 | 00 | 0 | 04517 | | TZE B8C-3 | |
| 04515 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04516 | 0000 | 00 | 0 | 04517 | | HTR B8C-3 | |
| 04517 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04520 | 0020 | 00 | 0 | 04522 | | TRA B8C | PROCEED TO NEXT TEST |
| 04521 | 0020 | 00 | 0 | 04510 | | TRA B7C | REPEAT TEST |

TEST LXA WITH XRC

| | | | | | | | | |
|-------|-------|----|---|-------|-----|------------|----------------------|--|
| 04522 | 0760 | 00 | 0 | 00000 | B8C | CLM | | |
| 04523 | -0734 | 00 | 4 | 00000 | | PDX 0,4 | RESET XRC | |
| 04524 | 0534 | 00 | 4 | 06603 | | LXA L1+2,4 | L2 | |
| 04525 | -0754 | 00 | 4 | 00000 | | PXD 0,4 | | |
| 04526 | 0402 | 00 | 0 | 06602 | | SUB L1+1 | L2 IN DECR | |
| 04527 | 0100 | 00 | 0 | 04532 | | TZE B9C-3 | | |
| 04530 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 | |
| 04531 | 0000 | 00 | 0 | 04532 | | HTR B9C-3 | | |
| 04532 | 0760 | 00 | 0 | 00161 | | SWT 1 | | |
| 04533 | 0020 | 00 | 0 | 04535 | | TRA B9C | PROCEED TO NEXT TEST | |
| 04534 | 0020 | 00 | 0 | 04522 | | TRA B8C | REPEAT TEST | |

TEST PAX WITH XR C

| | | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|----------------------|--|
| 04535 | 0500 | 00 | 0 | 06603 | B9C | CLA L1+2 | L 2 IN ADDR | |
| 04536 | -0534 | 00 | 4 | 06601 | | LXD L1,4 | L 1 | |
| 04537 | 0734 | 00 | 4 | 00000 | | PAX 0,4 | | |
| 04540 | -0754 | 00 | 4 | 00000 | | PXD 0,4 | | |
| 04541 | 0402 | 00 | 0 | 06602 | | SUB L1+1 | L 2 IN DECR | |
| 04542 | 0100 | 00 | 0 | 04545 | | TZE C1C-3 | | |
| 04543 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 | |
| 04544 | 0000 | 00 | 0 | 04545 | | HTR C1C-3 | | |
| 04545 | 0760 | 00 | 0 | 00161 | | SWT 1 | | |
| 04546 | 0020 | 00 | 0 | 04550 | | TRA C1C | PROCEED TO NEXT TEST | |
| 04547 | 0020 | 00 | 0 | 04535 | | TRA B9C | REPEAT TEST | |

TEST TXH WHEN XRC IS LOW

| | | | | | | | | |
|-------|---------|----|---|-------|-----|---------------|---------------------|--|
| 04550 | -0534 | 00 | 4 | 06601 | C1C | LXD L1,4 | L 1 | |
| 04551 | 3 00002 | 4 | 4 | 04553 | | TXH C2C-2,4,2 | | |
| 04552 | 0020 | 00 | 0 | 04560 | | TRA C3C | | |
| 04553 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 | |
| 04554 | 0000 | 00 | 0 | 04555 | | HTR C2C | | |
| 04555 | 0760 | 00 | 0 | 00161 | C2C | SWT 1 | | |
| 04556 | 0020 | 00 | 0 | 04560 | | TRA C3C | | |
| 04557 | 0020 | 00 | 0 | 04550 | | TRA C1C | REPEAT TEST | |

| | | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|----------------------|--|
| 04560 | -0754 | 00 | 4 | 00000 | C3C | PXD 0,4 | TEST XRC | |
| 04561 | 0402 | 00 | 0 | 06601 | | SUB L1 | | |
| 04562 | 0100 | 00 | 0 | 04565 | | TZE C4C-3 | | |
| 04563 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 | |
| 04564 | 0000 | 00 | 0 | 04565 | | HTR C4C-3 | | |
| 04565 | 0760 | 00 | 0 | 00161 | | SWT 1 | | |
| 04566 | 0020 | 00 | 0 | 04570 | | TRA C4C | PROCEED TO NEXT TEST | |
| 04567 | 0020 | 00 | 0 | 04560 | | TRA C3C | REPEAT TEST | |

TEST TXH WHEN XR + DECR EQUAL

| | | | | | | | | |
|-------|---------|----|---|-------|-----|---------------|---------------------|--|
| 04570 | -0534 | 00 | 4 | 06601 | C4C | LXD L1,4 | L 1 | |
| 04571 | 3 00001 | 4 | 4 | 04573 | | TXH C5C-2,4,1 | | |
| 04572 | 0020 | 00 | 0 | 04600 | | TRA C6C | | |
| 04573 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 | |
| 04574 | 0000 | 00 | 0 | 04575 | | HTR C5C | | |
| 04575 | 0760 | 00 | 0 | 00161 | C5C | SWT 1 | | |
| 04576 | 0020 | 00 | 0 | 04600 | | TRA C6C | | |

| | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|----------------------|
| 04577 | 0020 | 00 | 0 | 04570 | | TRA C4C | REPEAT TEST |
| 04600 | -0754 | 00 | 4 | 00000 | C6C | PXD 0,4 | TEST XR |
| 04601 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 04602 | 0100 | 00 | 0 | 04605 | | TZE C7C-3 | |
| 04603 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04604 | 0000 | 00 | 0 | 04605 | | HTR C7C-3 | |
| 04605 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04606 | 0020 | 00 | 0 | 04610 | | TRA C7C | PROCEED TO NEXT TEST |
| 04607 | 0020 | 00 | 0 | 04600 | | TRA C6C | REPEAT TEST |

TEST TXH WHEN XR IS HIGH

| | | | | | | | |
|-------|-------|-------|---|-------|-----|-----------|----------------------|
| 04610 | -0534 | 00 | 4 | 06601 | C7C | LXD L1,4 | L 1 |
| 04611 | 3 | 00000 | 4 | 04617 | | TXH C8C,4 | |
| 04612 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04613 | 0000 | 00 | 0 | 04614 | | HTR C9C | |
| 04614 | 0760 | 00 | 0 | 00161 | C9C | SWT 1 | |
| 04615 | 0020 | 00 | 0 | 04617 | | TRA C8C | |
| 04616 | 0020 | 00 | 0 | 04610 | | TRA C7C | REPEAT TEST |
| 04617 | -0754 | 00 | 4 | 00000 | C8C | PXD 0,4 | TEST XR |
| 04620 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 04621 | 0100 | 00 | 0 | 04624 | | TZE D1C-3 | |
| 04622 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04623 | 0000 | 00 | 0 | 04624 | | HTR D1C-3 | |
| 04624 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04625 | 0020 | 00 | 0 | 04627 | | TRA D1C | PROCEED TO NEXT TEST |
| 04626 | 0020 | 00 | 0 | 04617 | | TRA C8C | REPEAT TEST |

TEST TXL WHEN XR IS HIGH

| | | | | | | | |
|-------|-------|-------|---|-------|-----|-------------|----------------------|
| 04627 | -0534 | 00 | 4 | 06601 | D1C | LXD L1,4 | L 1 |
| 04630 | -3 | 00000 | 4 | 04632 | | TXL D2C-2,4 | |
| 04631 | 0020 | 00 | 0 | 04637 | | TRA D3C | |
| 04632 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04633 | 0000 | 00 | 0 | 04634 | | HTR D2C | |
| 04634 | 0760 | 00 | 0 | 00161 | D2C | SWT 1 | |
| 04635 | 0020 | 00 | 0 | 04637 | | TRA D3C | |
| 04636 | 0020 | 00 | 0 | 04627 | | TRA D1C | REPEAT TEST |
| 04637 | -0754 | 00 | 4 | 00000 | D3C | PXD 0,4 | TEST XR |
| 04640 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 04641 | 0100 | 00 | 0 | 04644 | | TZE D4C-3 | |
| 04642 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04643 | 0000 | 00 | 0 | 04644 | | HTR D4C-3 | |
| 04644 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04645 | 0020 | 00 | 0 | 04647 | | TRA D4C | PROCEED TO NEXT TEST |
| 04646 | 0020 | 00 | 0 | 04637 | | TRA D3C | REPEAT TEST |

TEST TXL WHEN XR EQUALS DECR

| | | | | | | | |
|-------|-------|-------|---|-------|-----|-------------|---------------------|
| 04647 | -0534 | 00 | 4 | 06601 | D4C | LXD L1,4 | L 1 |
| 04650 | -3 | 00001 | 4 | 04656 | | TXL D5C,4,1 | |
| 04651 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04652 | 0000 | 00 | 0 | 04653 | | HTR D6C | |

| | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|-------------------------|
| 04653 | 0760 | 00 | 0 | 00161 | D6C | SWT 1 | |
| 04654 | 0020 | 00 | 0 | 04656 | | TRA D5C | |
| 04655 | 0020 | 00 | 0 | 04647 | | TRA D4C | REPEAT TEST MODIFIED |
| 04656 | -0754 | 00 | 4 | 00000 | D5C | PXD 0,4 | TEST XRC |
| 04657 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 04660 | 0100 | 00 | 0 | 04663 | | TZE D7C-3 | |
| 04661 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04662 | 0000 | 00 | 0 | 04663 | | HTR D7C-3 | |
| 04663 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04664 | 0020 | 00 | 0 | 04666 | | TRA D7C | PROCEED TO NEXT TEST |
| 04665 | 0020 | 00 | 0 | 04656 | | TRA D5C | REPEAT TEST |

TEST TXL WHEN XR IS LOW

| | | | | | | | |
|-------|-------|-------|---|-------|-----|-------------|----------------------|
| 04666 | -0534 | 00 | 4 | 06601 | D7C | LXD L1,4 | L 1 |
| 04667 | -3 | 00002 | 4 | 04675 | | TXL D8C,4,2 | |
| 04670 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04671 | 0000 | 00 | 0 | 04672 | | HTR D9C | |
| 04672 | 0760 | 00 | 0 | 00161 | D9C | SWT 1 | |
| 04673 | 0020 | 00 | 0 | 04675 | | TRA D8C | |
| 04674 | 0020 | 00 | 0 | 04666 | | TRA D7C | REPEAT TEST |
| 04675 | -0754 | 00 | 4 | 00000 | D8C | PXD 0,4 | TEST XR B |
| 04676 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 04677 | 0100 | 00 | 0 | 04702 | | TZE E1C-3 | |
| 04700 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04701 | 0000 | 00 | 0 | 04702 | | HTR E1C-3 | |
| 04702 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04703 | 0020 | 00 | 0 | 04705 | | TRA E1C | PROCEED TO NEXT TEST |
| 04704 | 0020 | 00 | 0 | 04675 | | TRA D8C | REPEAT TEST |

TEST TIX XR GREATER THEN DECR

| | | | | | | | |
|-------|-------|-------|---|-------|-----|-------------|----------------------|
| 04705 | -0534 | 00 | 4 | 06602 | E1C | LXD L1+1,4 | L 2 |
| 04706 | 2 | 00001 | 4 | 04714 | | TIX E2C,4,1 | |
| 04707 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04710 | 0000 | 00 | 0 | 04711 | | HTR E4C | |
| 04711 | 0760 | 00 | 0 | 00161 | E4C | SWT 1 | |
| 04712 | 0020 | 00 | 0 | 04714 | | TRA E2C | |
| 04713 | 0020 | 00 | 0 | 04705 | | TRA E1C | REPEAT TEST |
| 04714 | -0754 | 00 | 4 | 00000 | E2C | PXD 0,4 | TEST XRC |
| 04715 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 04716 | 0100 | 00 | 0 | 04721 | | TZE E5C-3 | |
| 04717 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04720 | 0000 | 00 | 0 | 04721 | | HTR E5C-3 | |
| 04721 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04722 | 0020 | 00 | 0 | 04724 | | TRA E5C | PROCEED TO NEXT TEST |
| 04723 | 0020 | 00 | 0 | 04714 | | TRA E2C | REPEAT TEST |

TEST TIX XR EQUALS DECR

| | | | | | | | |
|-------|-------|-------|---|-------|-----|---------------|----|
| 04724 | -0534 | 00 | 4 | 06602 | E5C | LXD L1+1,4 | L2 |
| 04725 | 2 | 00002 | 4 | 04727 | | TIX E6C-2,4,2 | |
| 04726 | 0020 | 00 | 0 | 04734 | | TRA E7C | |

| | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|----------------------|
| 04727 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04730 | 0000 | 00 | 0 | 04731 | | HTR E6C | |
| 04731 | 0760 | 00 | 0 | 00161 | E6C | SWT 1 | |
| 04732 | 0020 | 00 | 0 | 04734 | | TRA E7C | |
| 04733 | 0020 | 00 | 0 | 04724 | | TRA E5C | REPEAT TEST |
| | | | | | | | |
| 04734 | -0754 | 00 | 4 | 00000 | E7C | PXD 0,4 | TEST XRC |
| 04735 | 0402 | 00 | 0 | 06602 | | SUB L1+1 | L 2 IN DECR |
| 04736 | 0100 | 00 | 0 | 04741 | | TZE E8C-3 | |
| 04737 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04740 | 0000 | 00 | 0 | 04741 | | HTR E8C-3 | |
| 04741 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04742 | 0020 | 00 | 0 | 04744 | | TRA E8C | PROCEED TO NEXT TEST |
| 04743 | 0020 | 00 | 0 | 04734 | | TRA E7C | REPEAT TEST |

TEST TIX XR LESS THEN DECR

| | | | | | | | |
|-------|-------|-------|---|-------|-----|---------------|----------------------|
| 04744 | -0534 | 00 | 4 | 06601 | E8C | LXD L1,4 | L 1 |
| 04745 | 2 | 00002 | 4 | 04747 | | TIX E9C-2,4,2 | |
| 04746 | 0020 | 00 | 0 | 04754 | | TRA F1C | |
| 04747 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04750 | 0000 | 00 | 0 | 04751 | | HTR E9C | |
| 04751 | 0760 | 00 | 0 | 00161 | E9C | SWT 1 | |
| 04752 | 0020 | 00 | 0 | 04754 | | TRA F1C | |
| 04753 | 0020 | 00 | 0 | 04744 | | TRA E8C | REPEAT TEST |
| | | | | | | | |
| 04754 | -0754 | 00 | 4 | 00000 | F1C | PXD 0,4 | TEST XRC |
| 04755 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 04756 | 0100 | 00 | 0 | 04761 | | TZE F2C-3 | |
| 04757 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04760 | 0000 | 00 | 0 | 04761 | | HTR F2C-3 | |
| 04761 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04762 | 0020 | 00 | 0 | 04764 | | TRA F2C | PROCEED TO NEXT TEST |
| 04763 | 0020 | 00 | 0 | 04754 | | TRA F1C | REPEAT TEST |

TEST TNX XR LESS THAN DECR

| | | | | | | | |
|-------|-------|-------|---|-------|-----|-------------|----------------------|
| 04764 | -0534 | 00 | 4 | 06601 | F2C | LXD L1,4 | L 1 |
| 04765 | -2 | 00002 | 4 | 04773 | | TNX F3C,4,2 | |
| 04766 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04767 | 0000 | 00 | 0 | 04770 | | HTR F2C+4 | |
| 04770 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 04771 | 0020 | 00 | 0 | 04773 | | TRA F3C | |
| 04772 | 0020 | 00 | 0 | 04764 | | TRA F2C | REPEAT TEST |
| | | | | | | | |
| 04773 | -0754 | 00 | 4 | 00000 | F3C | PXD 0,4 | |
| 04774 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 04775 | 0100 | 00 | 0 | 05000 | | TZE F4C-3 | |
| 04776 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 04777 | 0000 | 00 | 0 | 05000 | | HTR F4C-3 | |
| 05000 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 05001 | 0020 | 00 | 0 | 05003 | | TRA F4C | PROCEED TO NEXT TEST |
| 05002 | 0020 | 00 | 0 | 04773 | | TRA F3C | REPEAT TEST |

TEST TNX XR EQUALS DECR

| | | | | | | | |
|-------|-------|-------|---|-------|-----|-------------|----------------------|
| 05003 | -0534 | 00 | 4 | 06601 | F4C | LXD L1,4 | L 1 |
| 05004 | -2 | 00001 | 4 | 05012 | | TNX F5C,4,1 | |
| 05005 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05006 | 0000 | 00 | 0 | 05007 | | HTR F6C | |
| 05007 | 0760 | 00 | 0 | 00161 | F6C | SWT 1 | |
| 05010 | 0020 | 00 | 0 | 05012 | | TRA F5C | |
| 05011 | 0020 | 00 | 0 | 05003 | | TRA F4C | REPEAT TEST |
| | | | | | | | |
| 05012 | -0754 | 00 | 4 | 00000 | F5C | PXD 0,4 | TEST XRC |
| 05013 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 05014 | 0100 | 00 | 0 | 05017 | | TZE F7C-3 | |
| 05015 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05016 | 0000 | 00 | 0 | 05017 | | HTR F7C-3 | |
| 05017 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 05020 | 0020 | 00 | 0 | 05022 | | TRA F7C | PROCEED TO NEXT TEST |
| 05021 | 0020 | 00 | 0 | 05012 | | TRA F5C | REPEAT TEST |

TEST TNX XR GREATER THAN DECR

| | | | | | | | |
|-------|-------|-------|---|-------|-----|---------------|---------------------|
| 05022 | -0534 | 00 | 4 | 06602 | F7C | LXD L1+1,4 | L 2 |
| 05023 | -2 | 00001 | 4 | 05025 | | TNX F8C-2,4,1 | |
| 05024 | 0020 | 00 | 0 | 05032 | | TRA F9C | |
| 05025 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05026 | 0000 | 00 | 0 | 05027 | | HTR F8C | |
| 05027 | 0760 | 00 | 0 | 00161 | F8C | SWT 1 | |
| 05030 | 0020 | 00 | 0 | 05032 | | TRA F9C | |
| 05031 | 0020 | 00 | 0 | 05022 | | TRA F7C | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|----------------------|
| 05032 | -0754 | 00 | 4 | 00000 | F9C | PXD 0,4 | TEST XRC |
| 05033 | 0402 | 00 | 0 | 06601 | | SUB L1 | L 1 IN DECR |
| 05034 | 0100 | 00 | 0 | 05037 | | TZE G1C-3 | |
| 05035 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05036 | 0000 | 00 | 0 | 05037 | | HTR G1C-3 | |
| 05037 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 05040 | 0020 | 00 | 0 | 05042 | | TRA G1C | PROCEED TO NEXT TEST |
| 05041 | 0020 | 00 | 0 | 05032 | | TRA F9C | REPEAT TEST |

TEST TSX

| | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|-----------------------------------|
| 05042 | 0534 | 00 | 4 | 05042 | G1C | LXA G1C,4 | L OWN ADDRESS |
| 05043 | 0074 | 00 | 4 | 05051 | | TSX G2C,4 | |
| 05044 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05045 | 0000 | 00 | 0 | 05046 | | HTR G3C | |
| 05046 | 0760 | 00 | 0 | 00161 | G3C | SWT 1 | |
| 05047 | 0020 | 00 | 0 | 05051 | | TRA G2C | |
| 05050 | 0020 | 00 | 0 | 05042 | | TRA G1C | REPEAT TEST |
| | | | | | | | |
| 05051 | -0754 | 00 | 4 | 00000 | G2C | PXD 0,4 | L COMP TSX LOCATION IN DECR |
| 05052 | 0402 | 00 | 0 | 06656 | | SUB S1C | L 007017000000 |
| 05053 | 0100 | 00 | 0 | 05056 | | TZE G4C-3 | |
| 05054 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05055 | 0000 | 00 | 0 | 05056 | | HTR G4C-3 | |
| 05056 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 05057 | 0020 | 00 | 0 | 05061 | | TRA G4C | PROCEED TO NEXT TEST |

| | | | | | | | | |
|-----------------------|------|-------|---|-------|-----|---------------|--|----------------------|
| 05060 | 0020 | 00 | 0 | 05042 | | TRA G1C | | REPEAT TEST |
| TEST TIX FOR COUNTING | | | | | | | | |
| 05061 | 0534 | 00 | 4 | 06605 | G4C | LXA L1+4,4 | | L 7777 |
| 05062 | 0500 | 00 | 0 | 06605 | | CLA L1+4 | | L07777 |
| 05063 | 0760 | 00 | 0 | 00164 | | SWT 4 | | |
| 05064 | 0020 | 00 | 0 | 05070 | | TRA G5C | | |
| 05065 | 0760 | 00 | 0 | 00163 | | SWT 3 | | |
| 05066 | 0020 | 00 | 0 | 05073 | | TRA G6C | | |
| 05067 | 0020 | 00 | 0 | 05077 | | TRA G7C | | |
| 05070 | 0402 | 00 | 0 | 06606 | G5C | SUB L1+5 | | L 00001 |
| 05071 | 2 | 00001 | 4 | 05070 | | TIX G5C,4,1 | | |
| 05072 | 0020 | 00 | 0 | 05103 | | TRA G8C | | |
| 05073 | 0402 | 00 | 0 | 06616 | G6C | SUB L1+13 | | L 00100 |
| 05074 | 2 | 00100 | 4 | 05073 | | TIX G6C,4,64 | | |
| 05075 | 0400 | 00 | 0 | 06616 | | ADD L1+13 | | L00100 |
| 05076 | 0020 | 00 | 0 | 05070 | | TRA G5C | | |
| 05077 | 0402 | 00 | 0 | 06615 | G7C | SUB L1+12 | | L 1000 |
| 05100 | 2 | 01000 | 4 | 05077 | | TIX G7C,4,512 | | |
| 05101 | 0400 | 00 | 0 | 06615 | | ADD L1+12 | | L 1000 |
| 05102 | 0020 | 00 | 0 | 05073 | | TRA G6C | | |
| 05103 | 0100 | 00 | 0 | 05106 | G8C | TZE G9C-3 | | TO NEXT TEST |
| 05104 | 0760 | 00 | 0 | 00162 | | SWT 2 | | ERROR-TEST SWITCH 2 |
| 05105 | 0000 | 00 | 0 | 05106 | | HTR G9C-3 | | |
| 05106 | 0760 | 00 | 0 | 00161 | | SWT 1 | | |
| 05107 | 0020 | 00 | 0 | 05111 | | TRA G9C | | PROCEED TO NEXT TEST |
| 05110 | 0020 | 00 | 0 | 05061 | | TRA G4C | | REPEAT TEST |
| TEST TNX FOR COUNTING | | | | | | | | |
| 05111 | 0534 | 00 | 4 | 06605 | G9C | LXA L1+4,4 | | L 7777 |
| 05112 | 0500 | 00 | 0 | 06607 | | CLA L1+6 | | L 07776 |
| 05113 | 0760 | 00 | 0 | 00164 | | SWT 4 | | |
| 05114 | 0020 | 00 | 0 | 05120 | | TRA H1C | | |
| 05115 | 0760 | 00 | 0 | 00163 | | SWT 3 | | |
| 05116 | 0020 | 00 | 0 | 05123 | | TRA H2C | | |
| 05117 | 0020 | 00 | 0 | 05126 | | TRA H3C | | |
| 05120 | -2 | 00001 | 4 | 05131 | H1C | TNX H5C,4,1 | | |
| 05121 | 0402 | 00 | 0 | 06606 | | SUB L1+5 | | L00001 |
| 05122 | 0020 | 00 | 0 | 05120 | | TRA H1C | | |
| 05123 | -2 | 00100 | 4 | 05120 | H2C | TNX H1C,4,64 | | |
| 05124 | 0402 | 00 | 0 | 06616 | | SUB L1+13 | | L00100 |
| 05125 | 0020 | 00 | 0 | 05123 | | TRA H2C | | |
| 05126 | -2 | 01000 | 4 | 05123 | H3C | TNX H2C,4,512 | | |
| 05127 | 0402 | 00 | 0 | 06615 | | SUB L1+12 | | L 1000 |
| 05130 | 0020 | 00 | 0 | 05126 | H4C | TRA H3C | | |
| 05131 | 0100 | 00 | 0 | 05134 | H5C | TZE H6C-3 | | TO NEXT TEST |
| 05132 | 0760 | 00 | 0 | 00162 | | SWT 2 | | ERROR-TEST SWITCH 2 |
| 05133 | 0000 | 00 | 0 | 05134 | | HTR H6C-3 | | |
| 05134 | 0760 | 00 | 0 | 00161 | | SWT 1 | | |
| 05135 | 0020 | 00 | 0 | 05137 | | TRA H6C | | PROCEED TO NEXT TEST |

| | | | | | | | |
|--|-------|-------|---|-------|-----|----------------|---|
| 05136 | 0020 | 00 | 0 | 05111 | | TRA G9C | REPEAT TEST |
| TEST TXI FOR COUNTING | | | | | | | |
| 05137 | 0534 | 00 | 4 | 06612 | H6C | LXA L1+9,4 | L 00000 |
| 05140 | 0500 | 00 | 0 | 06610 | | CLA L1+7 | L DEPENDS ON SIZE OF STG. |
| 05141 | 0760 | 00 | 0 | 00164 | | SWT 4 | |
| 05142 | 0020 | 00 | 0 | 05147 | | TRA H7C | |
| 05143 | 0760 | 00 | 0 | 00163 | | SWT 3 | |
| 05144 | 0020 | 00 | 0 | 05152 | | TRA H8C | |
| 05145 | 0020 | 00 | 0 | 05154 | | TRA H9C | |
| 05146 | 0100 | 00 | 0 | 05157 | J2C | TZE J1C | |
| 05147 | 0402 | 00 | 0 | 06606 | H7C | SUB L1+5 | L 1 |
| 05150 | 1 | 00001 | 4 | 05146 | | TXI J2C,4,1 | |
| 05151 | 3 | 07600 | 4 | 05146 | J3C | TXH J2C,4,3968 | |
| 05152 | 0402 | 00 | 0 | 06616 | H8C | SUB L1+13 | L 100 |
| 05153 | 1 | 00100 | 4 | 05151 | | TXI J3C,4,64 | |
| 05154 | 3 | 06000 | 4 | 05152 | H9C | TXH H8C,4,3072 | |
| 05155 | 0402 | 00 | 0 | 06615 | | SUB L1+12 | L 1000 |
| 05156 | 1 | 01000 | 4 | 05154 | | TXI H9C,4,512 | |
| 05157 | -0754 | 00 | 4 | 00000 | J1C | PXD 0,4 | |
| 05160 | 0100 | 00 | 0 | 05163 | | TZE J4C-3 | TO NEXT TEST |
| 05161 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05162 | 0000 | 00 | 0 | 05163 | | HTR J4C-3 | |
| 05163 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 05164 | 0020 | 00 | 0 | 05166 | | TRA J4C | PROCEED TO NEXT TEST |
| 05165 | 0020 | 00 | 0 | 05137 | | TRA H6C | REPEAT TEST |
| TEST ADR MODIFICATION FOR ALL POSITIONS IN MEMORY | | | | | | | |
| 05166 | 0760 | 00 | 0 | 00000 | J4C | CLM | |
| 05167 | 0621 | 00 | 0 | 05172 | | STA J5C | |
| 05170 | 0534 | 00 | 4 | 06605 | | LXA L1+4,4 | L 7777 |
| 05171 | 0500 | 00 | 4 | 07777 | J7C | CLA 4095,4 | |
| 05172 | 0402 | 00 | 0 | 00000 | J5C | SUB 0 | |
| 05173 | -0100 | 00 | 0 | 05201 | | TNZ J6C-2 | |
| 05174 | 0500 | 00 | 0 | 05172 | | CLA J5C | |
| 05175 | 0400 | 00 | 0 | 06606 | | ADD L1+5 | L1 |
| 05176 | 0621 | 00 | 0 | 05172 | | STA J5C | MODIFY ADDR. |
| 05177 | 2 | 00001 | 4 | 05171 | | TIX J7C,4,1 | |
| 05200 | 0020 | 00 | 0 | 05203 | | TRA J6C | |
| 05201 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05202 | 0000 | 00 | 0 | 05203 | | HTR J6C | |
| 05203 | 0760 | 00 | 0 | 00161 | J6C | SWT 1 | |
| 05204 | 0020 | 00 | 0 | 05206 | | TRA M1C-2 | |
| 05205 | 0020 | 00 | 0 | 05166 | | TRA J4C | |
| 05206 | 0760 | 00 | 0 | 00165 | | SWT 5 | |
| 05207 | 0020 | 00 | 0 | 05244 | | TRA N1C-2 | GO TO NEXT TEST |
| 05210 | 0560 | 00 | 0 | 06621 | M1C | LDQ M | CLEAR MQ SSW 5 DOWN TEST HPR AND TSX INST |

| | | | | | | | |
|-----------------------------|-------|----|---|-------|-----|------------|--|
| 05211 | 0420 | 00 | 0 | 00000 | | HPR | KEY IN TSX INST. INTO MQ WITH ADDR OF M4 TAG A |
| 05212 | 0020 | 00 | 0 | 05220 | | TRA M2C | O K |
| 05213 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05214 | 0000 | 00 | 0 | 05215 | | HTR M2C-3 | |
| 05215 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 05216 | 0020 | 00 | 0 | 05220 | | TRA M2C | |
| 05217 | 0020 | 00 | 0 | 05210 | | TRA M1C | RE-LOOP |
| 05220 | -0600 | 00 | 0 | 06664 | M2C | STQ S7C | CHECK TSX INST |
| 05221 | 0500 | 00 | 0 | 06664 | | CLA S7C | |
| 05222 | 0402 | 00 | 0 | 06660 | | SUB S3C | |
| 05223 | 0100 | 00 | 0 | 05226 | | TZE M3C-3 | TRANSFER ON ZERO O K |
| 05224 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05225 | 0000 | 00 | 0 | 05226 | | HTR M3C-3 | |
| 05226 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 05227 | 0020 | 00 | 0 | 05231 | | TRA M3C | |
| 05230 | 0020 | 00 | 0 | 05210 | | TRA M1C | ERROR ON TSX TEST |
| 05231 | 0420 | 00 | 0 | 00000 | M3C | HPR | EXECUTE TSX INST TO M4B TAG C |
| 05232 | 0020 | 00 | 0 | 05237 | | TRA M4C+3 | DID NOT EXECUTE TSX |
| 05233 | 0020 | 00 | 0 | 05237 | | TRA M4C+3 | ERROR |
| 05234 | -0754 | 00 | 4 | 00000 | M4C | PXD 0,4 | |
| 05235 | 0402 | 00 | 0 | 06661 | | SUB S4C | |
| 05236 | 0100 | 00 | 0 | 05241 | | TZE N1C-5 | OK |
| 05237 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05240 | 0000 | 00 | 0 | 05241 | | HTR M4C+5 | |
| 05241 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 05242 | 0020 | 00 | 0 | 05244 | | TRA N1C-2 | PROCEED TO NEXT TEST |
| 05243 | 0020 | 00 | 0 | 05231 | | TRA M3C | REPEAT TEST |
| TEST-PLACE INDEX IN ADDRESS | | | | | | | |
| 05244 | 0500 | 00 | 0 | 06632 | | CLA K0+2 | L-377777777777 |
| 05245 | 0534 | 00 | 4 | 06630 | | LXA K0,4 | L +0 |
| 05246 | 0754 | 00 | 4 | 00000 | N1C | PXA 0,4 | CHECK CLEARING ACC |
| 05247 | 0100 | 00 | 0 | 05252 | | TZE N2C-5 | |
| 05250 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05251 | 0000 | 00 | 0 | 05252 | | HTR N2C-5 | |
| 05252 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 05253 | 0020 | 00 | 0 | 05255 | | TRA N2C-2 | |
| 05254 | 0020 | 00 | 0 | 05244 | | TRA N1C-2 | REPEAT TEST |
| 05255 | 0500 | 00 | 0 | 06632 | | CLA K0+2 | L ALL ONES |
| 05256 | 0534 | 00 | 4 | 06631 | | LXA K0+1,4 | L +1 |
| 05257 | 0754 | 00 | 4 | 00000 | N2C | PXA 0,4 | CHECK CLEAR ALL BUT ADR |
| 05260 | 0402 | 00 | 0 | 06631 | | SUB K0+1 | L +1 |
| 05261 | 0100 | 00 | 0 | 05264 | | TZE N3C-4 | |
| 05262 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05263 | 0000 | 00 | 0 | 05264 | | HTR N3C-4 | |

| | | | | | | | |
|-------|------|----|---|-------|-----|------------|------------------------------|
| 05264 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 05265 | 0020 | 00 | 0 | 05267 | | TRA N3C-1 | |
| 05266 | 0020 | 00 | 0 | 05255 | | TRA N2C-2 | REPEAT TEST |
| 05267 | 0534 | 00 | 4 | 06635 | | LXA K0+5,4 | L DEPENDS ON SIZE OF STG |
| 05270 | 0754 | 00 | 4 | 00000 | N3C | PXA 0,4 | CHECK ALL POSITIONS |
| 05271 | 0402 | 00 | 0 | 06605 | | SUB L1+4 | L 07777, 17777, 37777, 77777 |
| 05272 | 0100 | 00 | 0 | 05275 | | TZE N3C+5 | |
| 05273 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05274 | 0000 | 00 | 0 | 05275 | | HTR N3C+5 | |
| 05275 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 05276 | 0020 | 00 | 0 | 05300 | | TRA N14C-2 | NEXT SECTION |
| 05277 | 0020 | 00 | 0 | 05267 | | TRA N3C-1 | REPEAT TEST |

TEST-XRC, PXA AND COMP.

| | | | | | | | |
|-------|-------|----|---|-------|------|------------|---------------------------|
| 05300 | 0500 | 00 | 0 | 06632 | | CLA K0+2 | L ALL ONES |
| 05301 | 0534 | 00 | 4 | 06605 | | LXA L1+4,4 | L 7777 |
| 05302 | 0754 | 00 | 4 | 00000 | N14C | PXA 0,4 | |
| 05303 | 0760 | 00 | 0 | 00006 | | COM | |
| 05304 | -0763 | 00 | 0 | 00002 | | LGL 2 | TO ELIMINATE P AND Q BITS |
| 05305 | -0765 | 00 | 0 | 00002 | | LGR 2 | |
| 05306 | 0140 | 00 | 0 | 05307 | | TOV *+1 | TURN OFF OVERFLOW LIGHT |
| 05307 | 0600 | 00 | 0 | 06623 | | STZ M+2 | CLEAR TEMP STG. |
| 05310 | 0621 | 00 | 0 | 06623 | | STA M+2 | |
| 05311 | 0402 | 00 | 0 | 06730 | | SUB Y | L 3777777770000 |
| 05312 | 0100 | 00 | 0 | 05315 | | TZE N15C | OK-TEST SWITCH 1 |
| 05313 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05314 | 0000 | 00 | 0 | 05315 | | HTR N15C | HALT ON ERROR |
| 05315 | 0760 | 00 | 0 | 00161 | N15C | SWT 1 | |
| 05316 | 0020 | 00 | 0 | 05320 | | TRA N15C+3 | NEXT SECTION |
| 05317 | 0020 | 00 | 0 | 05300 | | TRA N14C-2 | REPEAT |

TEST-STA AFTER PXA COMP.

| | | | | | | | |
|-------|------|----|---|-------|--|------------|---------------------|
| 05320 | 0500 | 00 | 0 | 06623 | | CLA M+2 | RESULTS STA |
| 05321 | 0402 | 00 | 0 | 06731 | | SUB Z | TEST STA |
| 05322 | 0100 | 00 | 0 | 05325 | | TZE N15C+8 | OK-TEST SWITCH 1 |
| 05323 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05324 | 0000 | 00 | 0 | 05325 | | HTR N15C+8 | HALT ON ERROR |
| 05325 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 05326 | 0020 | 00 | 0 | 05330 | | TRA N4C-2 | NEXT SECTION |
| 05327 | 0020 | 00 | 0 | 05300 | | TRA N14C-2 | REPEAT |

TEST STORE INDEX IN ADDRESS

| | | | | | | | |
|-------|-------|----|---|-------|-----|------------|----------------------------|
| 05330 | 0534 | 00 | 4 | 06631 | | LXA K0+1,4 | L +1 |
| 05331 | 0600 | 00 | 0 | 06645 | | STZ T1 | BLANK TEMP STG |
| 05332 | 0634 | 00 | 4 | 06645 | N4C | SXA T1,4 | PUT 1 IN ADR OF STORAGE |
| 05333 | 0500 | 00 | 0 | 06645 | | CLA T1 | L 0 |
| 05334 | 0402 | 00 | 0 | 06631 | | SUB K0+1 | L +1 |
| 05335 | -0100 | 00 | 0 | 05341 | | TNZ N4C+7 | |
| 05336 | 0754 | 00 | 4 | 00000 | | PXA 0,4 | CHECK IF INDEX HAS CHANGED |
| 05337 | 0402 | 00 | 0 | 06631 | | SUB K0+1 | L +1 |
| 05340 | 0100 | 00 | 0 | 05343 | | TZE N5C-9 | |

| | | | | | | |
|-------|-------|----|---|-------|--------------|--------------------------|
| 05341 | 0760 | 00 | 0 | 00162 | SWT 2 | ERROR-TEST SWITCH 2 |
| 05342 | 0000 | 00 | 0 | 05343 | HTR N5C-9 | |
| 05343 | 0760 | 00 | 0 | 00161 | SWT 1 | |
| 05344 | 0020 | 00 | 0 | 05346 | TRA N5C-6 | |
| 05345 | 0020 | 00 | 0 | 05330 | TRA N4C-2 | REPEAT TEST |
| | | | | | | |
| 05346 | -0500 | 00 | 0 | 06635 | CAL K0+5 | L -3077777707777 |
| 05347 | 0767 | 00 | 0 | 00022 | ALS 18 | CLEAR ACC. ADDR. AND TAG |
| 05350 | 0602 | 00 | 0 | 06645 | SLW T1 | |
| 05351 | -0500 | 00 | 0 | 06632 | CAL K0+2 | TO BRING IN TAG OF 7 |
| 05352 | 0625 | 00 | 0 | 06645 | STT T1 | |
| 05353 | 0534 | 00 | 4 | 06635 | LXA K0+5,4 | L DEPENDS ON SIZE OF STG |
| 05354 | 0634 | 00 | 4 | 06645 | N5C SXA T1,4 | CHECK ALL POSITIONS |
| 05355 | 0500 | 00 | 0 | 06645 | CLA T1 | |
| 05356 | 0402 | 00 | 0 | 06635 | SUB K0+5 | L DEPENDS ON SIZE OF STG |
| 05357 | 0100 | 00 | 0 | 05362 | TZE N6C-5 | |
| 05360 | 0760 | 00 | 0 | 00162 | SWT 2 | ERROR-TEST SWITCH 2 |
| 05361 | 0000 | 00 | 0 | 05362 | HTR N6C-5 | |
| 05362 | 0760 | 00 | 0 | 00161 | SWT 1 | |
| 05363 | 0020 | 00 | 0 | 05365 | TRA N6C-2 | PROCEED TO NEXT TEST |
| 05364 | 0020 | 00 | 0 | 05346 | TRA N5C-6 | |

TEST-PLACE 2S COMP OF ADR IN XR

| | | | | | | |
|-------|-------|----|---|-------|-------------|--------------------------|
| 05365 | 0500 | 00 | 0 | 06636 | CLA K0+6 | L 345252742525 |
| 05366 | 0534 | 00 | 4 | 06636 | LXA K0+6,4 | L 42525 |
| 05367 | 0737 | 00 | 4 | 00000 | N6C PAC 0,4 | |
| 05370 | 0402 | 00 | 0 | 06636 | SUB K0+6 | CHECK ACC UNCHANGED |
| 05371 | -0100 | 00 | 0 | 05375 | TNZ N6C+6 | NG |
| 05372 | -0754 | 00 | 4 | 00000 | PXD 0,4 | CHECK XR |
| 05373 | 0402 | 00 | 0 | 06637 | SUB K0+7 | L DEPENDS ON SIZE OF STG |
| 05374 | 0100 | 00 | 0 | 05377 | TZE N7C-5 | |
| 05375 | 0760 | 00 | 0 | 00162 | SWT 2 | ERROR-TEST SWITCH 2 |
| 05376 | 0000 | 00 | 0 | 05377 | HTR N7C-5 | |
| 05377 | 0760 | 00 | 0 | 00161 | SWT 1 | |
| 05400 | 0020 | 00 | 0 | 05402 | TRA N7C-2 | |
| 05401 | 0020 | 00 | 0 | 05365 | TRA N6C-2 | |

TEST-PLACE 2S COMP OF DECR IN XR

| | | | | | | |
|-------|-------|----|---|-------|-------------|--------------------------|
| 05402 | 0500 | 00 | 0 | 06636 | CLA K0+6 | L 345252742525 |
| 05403 | -0534 | 00 | 4 | 06636 | LXD K0+6,4 | L 45252 |
| 05404 | -0737 | 00 | 4 | 00000 | N7C PDC 0,4 | |
| 05405 | 0402 | 00 | 0 | 06636 | SUB K0+6 | CHECK ACC UNCHANGED |
| 05406 | -0100 | 00 | 0 | 05412 | TNZ N7C+6 | NG |
| 05407 | -0754 | 00 | 4 | 00000 | PXD 0,4 | CHECK XR |
| 05410 | 0402 | 00 | 0 | 06640 | SUB K0+8 | L DEPENDS ON SIZE OF STG |
| 05411 | 0100 | 00 | 0 | 05414 | TZE N10C-4 | |
| 05412 | 0760 | 00 | 0 | 00162 | SWT 2 | ERROR-TEST SWITCH 2 |
| 05413 | 0000 | 00 | 0 | 05414 | HTR N10C-4 | |
| 05414 | 0760 | 00 | 0 | 00161 | SWT 1 | |
| 05415 | 0020 | 00 | 0 | 05417 | TRA N10C-1 | PROCEED TO NEXT TEST |
| 05416 | 0020 | 00 | 0 | 05402 | TRA N7C-2 | REPEAT TEST |

TEST-LOAD ADR 2S COMP IN INDEX

| | | | | | | | |
|-------|-------|----|---|-------|------|------------|--------------------------|
| 05417 | 0534 | 00 | 4 | 06635 | | LXA K0+5,4 | L DEPENDS ON SIZE OF STG |
| 05420 | 0535 | 00 | 4 | 06636 | N10C | LAC K0+6,4 | L 42525 |
| 05421 | -0754 | 00 | 4 | 00000 | | PXD 0,4 | BRING BACK XR |
| 05422 | 0402 | 00 | 0 | 06637 | | SUB K0+7 | L DEPENDS ON SIZE OF STG |
| 05423 | 0100 | 00 | 0 | 05426 | | TZE N11C-4 | |
| 05424 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05425 | 0000 | 00 | 0 | 05426 | | HTR N11C-4 | |
| 05426 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 05427 | 0020 | 00 | 0 | 05431 | | TRA N11C-1 | PROCEED TO NEXT TEST |
| 05430 | 0020 | 00 | 0 | 05417 | | TRA N10C-1 | REPEAT TEST |

TEST-LOAD DECR 2S COMP IN INDEX

| | | | | | | | |
|-------|-------|----|---|-------|------|------------|--------------------------|
| 05431 | 0534 | 00 | 4 | 06635 | | LXA K0+5,4 | L DEPENDS ON SIZE OF STG |
| 05432 | -0535 | 00 | 4 | 06636 | N11C | LDC K0+6,4 | L 45252 |
| 05433 | -0754 | 00 | 4 | 00000 | | PXD 0,4 | BRING BACK XR |
| 05434 | 0402 | 00 | 0 | 06640 | | SUB K0+8 | L DEPENDS ON SIZE OF STG |
| 05435 | 0100 | 00 | 0 | 05440 | | TZE N12C-5 | |
| 05436 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05437 | 0000 | 00 | 0 | 05440 | | HTR N12C-5 | |
| 05440 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 05441 | 0020 | 00 | 0 | 05443 | | TRA N12C-2 | PROCEED TO NEXT TEST |
| 05442 | 0020 | 00 | 0 | 05431 | | TRA N11C-1 | REPEAT TEST |

TEST-LOAD OWN ADDRESS IN XR

| | | | | | | | |
|-------|-------|----|---|-------|------|-------------|--------------------------|
| 05443 | 0500 | 00 | 0 | 06630 | | CLA K0 | L+0 |
| 05444 | 0534 | 00 | 4 | 06635 | | LXA K0+5,4 | L DEPENDS ON SIZE OF STG |
| 05445 | 0774 | 00 | 4 | 35253 | N12C | AXT 15019,4 | PUT 35253 IN XR |
| 05446 | -0754 | 00 | 4 | 00000 | | PXD 0,4 | BRING BACK XR |
| 05447 | 0402 | 00 | 0 | 06637 | | SUB K0+7 | L DEPENDS ON SIZE OF STG |
| 05450 | 0100 | 00 | 0 | 05453 | | TZE N13C-5 | |
| 05451 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05452 | 0000 | 00 | 0 | 05453 | | HTR N13C-5 | |
| 05453 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 05454 | 0020 | 00 | 0 | 05456 | | TRA N13C-2 | PROCEED TO NEXT TEST |
| 05455 | 0020 | 00 | 0 | 05443 | | TRA N12C-2 | REPEAT TEST |

TEST-LOAD COMP OF OWN ADDRESS

| | | | | | | | |
|-------|-------|----|---|-------|------|-------------|--------------------------|
| 05456 | 0500 | 00 | 0 | 06630 | | CLA K0 | L+0 |
| 05457 | 0534 | 00 | 4 | 06635 | | LXA K0+5,4 | L DEPENDS ON SIZE OF STG |
| 05460 | -0774 | 00 | 4 | 42525 | N13C | AXC 17749,4 | PUT 35253 IN XRA |
| 05461 | -0754 | 00 | 4 | 00000 | | PXD 0,4 | BRING BACK XR |
| 05462 | 0402 | 00 | 0 | 06637 | | SUB K0+7 | L DEPENDS ON SIZE OF STG |
| 05463 | 0100 | 00 | 0 | 05466 | | TZE C1AD-3 | |
| 05464 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05465 | 0000 | 00 | 0 | 05466 | | HTR C1AD-3 | |
| 05466 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 05467 | 0020 | 00 | 0 | 05471 | | TRA C1AD | PROCEED TO NEXT TEST |
| 05470 | 0020 | 00 | 0 | 05456 | | TRA N13C-2 | REPEAT TEST |

| | | | | | | | |
|-------|------|----|---|-------|------|----------------|---------------------------|
| 05471 | 0534 | 00 | 1 | 06723 | C1AD | LXA K1111,1 | L +1111 |
| 05472 | 0534 | 00 | 2 | 06724 | | LXA K2222,2 | L +2222 |
| 05473 | 0534 | 00 | 4 | 06725 | | LXA K4444,4 | L +4444 |
| 05474 | 0560 | 00 | 1 | 10033 | C2D | LDQ K06D+585,1 | L DEPENDS ON SIZE OF STG. |
| 05475 | 0500 | 00 | 1 | 10033 | | CLA K06D+585,1 | L DEPENDS ON SIZE OF STG. |
| 05476 | 0340 | 00 | 0 | 06722 | | CAS K06D | L +1111111111 |
| 05477 | 0020 | 00 | 0 | 05501 | | TRA C2D+5 | ERROR |
| 05500 | 0020 | 00 | 0 | 05503 | | TRA C2D+7 | OK |
| 05501 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05502 | 0000 | 00 | 0 | 05503 | | HTR C2D+7 | ERROR ON COMPARISON |
| 05503 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 05504 | 0020 | 00 | 0 | 05506 | | TRA C3D | CONTINUE TEST |
| 05505 | 0020 | 00 | 0 | 05474 | | TRA C2D | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|----------------------|
| 05506 | -0600 | 00 | 0 | 06713 | C3D | STQ J1D | TEMPORARY STORAGE |
| 05507 | 0500 | 00 | 0 | 06713 | | CLA J1D | |
| 05510 | 0340 | 00 | 0 | 06722 | | CAS K06D | L +1111111111 |
| 05511 | 0020 | 00 | 0 | 05513 | | TRA C3D+5 | ERROR |
| 05512 | 0020 | 00 | 0 | 05515 | | TRA C3D+7 | OK |
| 05513 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05514 | 0000 | 00 | 0 | 05515 | | HTR C3D+7 | ERROR ON COMPARISON |
| 05515 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 05516 | 0020 | 00 | 0 | 05520 | | TRA CA2D | PROCEED TO NEXT TEST |
| 05517 | 0020 | 00 | 0 | 05474 | | TRA C2D | REPEAT TEST |

TESTING TAG 2

| | | | | | | | |
|-------|------|----|---|-------|------|-----------------|---------------------------|
| 05520 | 0560 | 00 | 2 | 11143 | CA2D | LDQ K05D+1170,2 | L DEPENDS ON SIZE OF STG. |
| 05521 | 0500 | 00 | 2 | 11143 | | CLA K05D+1170,2 | L DEPENDS ON SIZE OF STG. |
| 05522 | 0340 | 00 | 0 | 06721 | | CAS K05D | L +2222222222 |
| 05523 | 0020 | 00 | 0 | 05525 | | TRA CA2D+5 | ERROR |
| 05524 | 0020 | 00 | 0 | 05527 | | TRA CA2D+7 | OK |
| 05525 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05526 | 0000 | 00 | 0 | 05527 | | HTR CA2D+7 | ERROR ON COMPARISON |
| 05527 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 05530 | 0020 | 00 | 0 | 05532 | | TRA CA3D | CONTINUE TEST |
| 05531 | 0020 | 00 | 0 | 05520 | | TRA CA2D | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|------|------------|----------------------|
| 05532 | -0600 | 00 | 0 | 06713 | CA3D | STQ J1D | TEMPORARY STORAGE |
| 05533 | 0500 | 00 | 0 | 06713 | | CLA J1D | |
| 05534 | 0340 | 00 | 0 | 06721 | | CAS K05D | L +2222222222 |
| 05535 | 0020 | 00 | 0 | 05537 | | TRA CA3D+5 | ERROR |
| 05536 | 0020 | 00 | 0 | 05541 | | TRA CA3D+7 | OK |
| 05537 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 05540 | 0000 | 00 | 0 | 05541 | | HTR CA3D+7 | ERROR ON COMPARISON |
| 05541 | 0020 | 00 | 0 | 05543 | | TRA CB2D | PROCEED TO NEXT TEST |
| 05542 | 0020 | 00 | 0 | 05520 | | TRA CA2D | REPEAT TEST |

TESTING TAG 3

| | | | | | | | | | |
|-------|------|----|---|-------|------|-----|-------------|---|-------------------------|
| 05543 | 0560 | 00 | 3 | 12253 | CB2D | LDQ | K04D+1755,3 | L | DEPENDS ON SIZE OF STG. |
| 05544 | 0500 | 00 | 3 | 12253 | | CLA | K04D+1755,3 | L | DEPENDS ON SIZE OF STG. |
| 05545 | 0340 | 00 | 0 | 06720 | | CAS | K04D | L | +333333333333 |
| 05546 | 0020 | 00 | 0 | 05550 | | TRA | CB2D+5 | | ERROR |
| 05547 | 0020 | 00 | 0 | 05552 | | TRA | CB2D+7 | | OK |
| 05550 | 0760 | 00 | 0 | 00162 | | SWT | 2 | | ERROR-TEST SWITCH 2 |
| 05551 | 0000 | 00 | 0 | 05552 | | HTR | CB2D+7 | | ERROR ON COMPARISON |
| 05552 | 0760 | 00 | 0 | 00161 | | SWT | 1 | | |
| 05553 | 0020 | 00 | 0 | 05555 | | TRA | CB3D | | CONTINUE TEST |
| 05554 | 0020 | 00 | 0 | 05543 | | TRA | CB2D | | REPEAT TEST |

| | | | | | | | | | |
|-------|-------|----|---|-------|------|-----|--------|---|----------------------|
| 05555 | -0600 | 00 | 0 | 06713 | CB3D | STQ | J1D | | TEMPORARY STORAGE |
| 05556 | 0500 | 00 | 0 | 06713 | | CLA | J1D | | |
| 05557 | 0340 | 00 | 0 | 06720 | | CAS | K04D | L | +33333333333333 |
| 05560 | 0020 | 00 | 0 | 05562 | | TRA | CB3D+5 | | ERROR |
| 05561 | 0020 | 00 | 0 | 05564 | | TRA | CB3D+7 | | OK |
| 05562 | 0760 | 00 | 0 | 00162 | | SWT | 2 | | ERROR-TEST SWITCH 2 |
| 05563 | 0000 | 00 | 0 | 05564 | | HTR | CB3D+7 | | ERROR ON COMPARISON |
| 05564 | 0760 | 00 | 0 | 00161 | | SWT | 1 | | |
| 05565 | 0020 | 00 | 0 | 05567 | | TRA | CC2D | | PROCEED TO NEXT TEST |
| 05566 | 0020 | 00 | 0 | 05543 | | TRA | CB2D | | REPEAT TEST |

TESTING TAG 4

| | | | | | | | | | |
|-------|------|----|---|-------|------|-----|-------------|---|-------------------------|
| 05567 | 0560 | 00 | 4 | 13363 | CC2D | LDQ | K03D+2340,4 | L | DEPENDS ON SIZE OF STG. |
| 05570 | 0500 | 00 | 4 | 13363 | | CLA | K03D+2340,4 | L | DEPENDS ON SIZE OF STG. |
| 05571 | 0340 | 00 | 0 | 06717 | | CAS | K03D | L | +44444444444444 |
| 05572 | 0020 | 00 | 0 | 05574 | | TRA | CC2D+5 | | ERROR |
| 05573 | 0020 | 00 | 0 | 05576 | | TRA | CC2D+7 | | OK |
| 05574 | 0760 | 00 | 0 | 00162 | | SWT | 2 | | ERROR-TEST SWITCH 2 |
| 05575 | 0000 | 00 | 0 | 05576 | | HTR | CC2D+7 | | ERROR ON COMPARISON |
| 05576 | 0760 | 00 | 0 | 00161 | | SWT | 1 | | |
| 05577 | 0020 | 00 | 0 | 05601 | | TRA | CC3D | | CONTINUE TEST |
| 05600 | 0020 | 00 | 0 | 05567 | | TRA | CC2D | | REPEAT TEST |

| | | | | | | | | | |
|-------|-------|----|---|-------|------|-----|--------|---|----------------------|
| 05601 | -0600 | 00 | 0 | 06713 | CC3D | STQ | J1D | | TEMPORARY STORAGE |
| 05602 | 0500 | 00 | 0 | 06713 | | CLA | J1D | | |
| 05603 | 0340 | 00 | 0 | 06717 | | CAS | K03D | L | +44444444444444 |
| 05604 | 0020 | 00 | 0 | 05606 | | TRA | CC3D+5 | | ERROR |
| 05605 | 0020 | 00 | 0 | 05610 | | TRA | CC3D+7 | | OK |
| 05606 | 0760 | 00 | 0 | 00162 | | SWT | 2 | | ERROR-TEST SWITCH 2 |
| 05607 | 0000 | 00 | 0 | 05610 | | HTR | CC3D+7 | | ERROR ON COMPARISON |
| 05610 | 0760 | 00 | 0 | 00161 | | SWT | 1 | | |
| 05611 | 0020 | 00 | 0 | 05613 | | TRA | CD2D | | PROCEED TO NEXT TEST |
| 05612 | 0020 | 00 | 0 | 05567 | | TRA | CC2D | | REPEAT TEST |

TESTING TAG 5

| | | | | | | | | | |
|-------|------|----|---|-------|------|-----|-------------|---|-------------------------|
| 05613 | 0560 | 00 | 5 | 14473 | CD2D | LDQ | K02D+2925,5 | L | DEPENDS ON SIZE OF STG. |
| 05614 | 0500 | 00 | 5 | 14473 | | CLA | K02D+2925,5 | L | DEPENDS ON SIZE OF STG. |
| 05615 | 0340 | 00 | 0 | 06716 | | CAS | K02D | L | +555555555555 |
| 05616 | 0020 | 00 | 0 | 05620 | | TRA | CD2D+5 | | ERROR |

| | | | | | | | |
|-------|-------|----|---|-------|------|---------|----------------------|
| 05617 | 0020 | 00 | 0 | 05622 | TRA | CD2D+7 | OK |
| 05620 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 |
| 05621 | 0000 | 00 | 0 | 05622 | HTR | CD2D+7 | ERROR ON COMPARISON |
| 05622 | 0760 | 00 | 0 | 00161 | SWT | 1 | |
| 05623 | 0020 | 00 | 0 | 05625 | TRA | CD3D | CONTINUE TEST |
| 05624 | 0020 | 00 | 0 | 05613 | TRA | CD2D | REPEAT TEST |
| | | | | | | | |
| 05625 | -0600 | 00 | 0 | 06713 | CD3D | STQ J1D | TEMPORARY STORAGE |
| 05626 | 0500 | 00 | 0 | 06713 | CLA | J1D | |
| 05627 | 0340 | 00 | 0 | 06716 | CAS | K02D | L +5555555555555 |
| 05630 | 0020 | 00 | 0 | 05632 | TRA | CD3D+5 | ERROR |
| 05631 | 0020 | 00 | 0 | 05634 | TRA | CD3D+7 | OK |
| 05632 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 |
| 05633 | 0000 | 00 | 0 | 05634 | HTR | CD3D+7 | ERROR ON COMPARISON |
| 05634 | 0760 | 00 | 0 | 00161 | SWT | 1 | |
| 05635 | 0020 | 00 | 0 | 05637 | TRA | CE2D | PROCEED TO NEXT TEST |
| 05636 | 0020 | 00 | 0 | 05613 | TRA | CD2D | REPEAT TEST |

TESTING TAG 6

| | | | | | | | |
|-------|------|----|---|-------|------|-------------------|-------------------------|
| 05637 | 0560 | 00 | 6 | 15603 | CE2D | LDQ K01D+3510,6 L | DEPENDS ON SIZE OF STG. |
| 05640 | 0500 | 00 | 6 | 15603 | CLA | K01D+3510,6 L | DEPENDS ON SIZE OF STG. |
| 05641 | 0340 | 00 | 0 | 06715 | CAS | K01D | L +66666666666666 |
| 05642 | 0020 | 00 | 0 | 05644 | TRA | CE2D+5 | ERROR |
| 05643 | 0020 | 00 | 0 | 05646 | TRA | CE2D+7 | OK |
| 05644 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 |
| 05645 | 0000 | 00 | 0 | 05646 | HTR | CE2D+7 | ERROR ON COMPARISON |
| 05646 | 0760 | 00 | 0 | 00161 | SWT | 1 | |
| 05647 | 0020 | 00 | 0 | 05651 | TRA | CE3D | CONTINUE TEST |
| 05650 | 0020 | 00 | 0 | 05637 | TRA | CE2D | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|------|---------|----------------------|
| 05651 | -0600 | 00 | 0 | 06713 | CE3D | STQ J1D | TEMPORARY STORAGE |
| 05652 | 0500 | 00 | 0 | 06713 | CLA | J1D | |
| 05653 | 0340 | 00 | 0 | 06715 | CAS | K01D | L +66666666666666 |
| 05654 | 0020 | 00 | 0 | 05656 | TRA | CE3D+5 | ERROR |
| 05655 | 0020 | 00 | 0 | 05660 | TRA | CE3D+7 | OK |
| 05656 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 |
| 05657 | 0000 | 00 | 0 | 05660 | HTR | CE3D+7 | ERROR ON COMPARISON |
| 05660 | 0760 | 00 | 0 | 00161 | SWT | 1 | |
| 05661 | 0020 | 00 | 0 | 05663 | TRA | CF2D | PROCEED TO NEXT TEST |
| 05662 | 0020 | 00 | 0 | 05637 | TRA | CE2D | REPEAT TEST |

TESTING TAG 7

| | | | | | | | |
|-------|------|----|---|-------|------|-------------------|-------------------------|
| 05663 | 0560 | 00 | 7 | 16713 | CF2D | LDQ K00D+4095,7 L | DEPENDS ON SIZE OF STG. |
| 05664 | 0500 | 00 | 7 | 16713 | CLA | K00D+4095,7 L | DEPENDS ON SIZE OF STG. |
| 05665 | 0340 | 00 | 0 | 06714 | CAS | K00D | L +7777777777777 |
| 05666 | 0020 | 00 | 0 | 05670 | TRA | CF2D+5 | ERROR |
| 05667 | 0020 | 00 | 0 | 05672 | TRA | CF2D+7 | OK |
| 05670 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 |
| 05671 | 0000 | 00 | 0 | 05672 | HTR | CF2D+7 | ERROR ON COMPARISON |
| 05672 | 0760 | 00 | 0 | 00161 | SWT | 1 | |

| | | | | | | |
|-------|-------|----|---|-------|--------------|----------------------|
| 05673 | 0020 | 00 | 0 | 05675 | TRA CF3D | CONTINUE TEST |
| 05674 | 0020 | 00 | 0 | 05663 | TRA CF2D | REPEAT TEST |
| | | | | | | |
| 05675 | -0600 | 00 | 0 | 06713 | CF3D STQ J1D | TEMPORARY STORAGE |
| 05676 | 0500 | 00 | 0 | 06713 | CLA J1D | |
| 05677 | 0340 | 00 | 0 | 06714 | CAS K00D | L +77777777777777 |
| 05700 | 0020 | 00 | 0 | 05702 | TRA CF3D+5 | ERROR |
| 05701 | 0020 | 00 | 0 | 05704 | TRA CF3D+7 | OK |
| 05702 | 0760 | 00 | 0 | 00162 | SWT 2 | ERROR-TEST SWITCH 2 |
| 05703 | 0000 | 00 | 0 | 05704 | HTR CF3D+7 | ERROR ON COMPARISON |
| 05704 | 0760 | 00 | 0 | 00161 | SWT 1 | |
| 05705 | 0020 | 00 | 0 | 05707 | TRA C8D | PROCEED TO NEXT TEST |
| 05706 | 0020 | 00 | 0 | 05663 | TRA CF2D | REPEAT TEST |

TEST-XR READ IN WITH MULTIPLE TAG

| | | | | | | |
|-------|-------|----|---|-------|----------------|-------------------------|
| 05707 | 0534 | 00 | 7 | 06635 | C8D LXA K0+5,7 | L 7777 |
| 05710 | 0500 | 00 | 0 | 06701 | CLA K17D | L ZEROS |
| 05711 | -0754 | 00 | 1 | 00000 | PXD 0,1 | L 7777 |
| 05712 | 0560 | 00 | 0 | 06674 | LDQ K8D | L DECR OF 7777 |
| 05713 | 0340 | 00 | 0 | 06674 | CAS K8D | DECR OF 7777 TEST TAG 1 |
| 05714 | 0020 | 00 | 0 | 05716 | TRA C8D+7 | ERROR |
| 05715 | 0020 | 00 | 0 | 05720 | TRA C8D+9 | OK |
| 05716 | 0760 | 00 | 0 | 00162 | SWT 2 | ERROR-TEST SWITCH 2 |
| 05717 | 0000 | 00 | 0 | 05720 | HTR C8D+9 | ERROR |
| 05720 | 0760 | 00 | 0 | 00161 | SWT 1 | |
| 05721 | 0020 | 00 | 0 | 05723 | TRA C9D | PROCEED TO NEXT TEST |
| 05722 | 0020 | 00 | 0 | 05707 | TRA C8D | REPEAT TEST |

| | | | | | | |
|-------|-------|----|---|-------|--------------|---------------------------|
| 05723 | 0500 | 00 | 0 | 06701 | C9D CLA K17D | L ZEROS |
| 05724 | -0754 | 00 | 2 | 00000 | PXD 0,2 | L 7777 |
| 05725 | 0560 | 00 | 0 | 06674 | LDQ K8D | L DEPENDS ON SIZE OF STO. |
| 05726 | 0340 | 00 | 0 | 06674 | CAS K8D | DECR OF 7777 TEST TAG B |
| 05727 | 0020 | 00 | 0 | 05731 | TRA C9D+6 | ERROR |
| 05730 | 0020 | 00 | 0 | 05733 | TRA C9D+8 | OK |
| 05731 | 0760 | 00 | 0 | 00162 | SWT 2 | ERROR-TEST SWITCH 2 |
| 05732 | 0000 | 00 | 0 | 05733 | HTR C9D+8 | ERROR |
| 05733 | 0760 | 00 | 0 | 00161 | SWT 1 | |
| 05734 | 0020 | 00 | 0 | 05736 | TRA C10D | PROCEED TO NEXT TEST |
| 05735 | 0020 | 00 | 0 | 05723 | TRA C9D | REPEAT TEST |

| | | | | | | |
|-------|-------|----|---|-------|---------------|---------------------------|
| 05736 | 0500 | 00 | 0 | 06701 | C10D CLA K17D | L ZEROS |
| 05737 | -0754 | 00 | 4 | 00000 | PXD 0,4 | L 7777 |
| 05740 | 0560 | 00 | 0 | 06674 | LDQ K8D | L DEPENDS ON SIZE OF STO. |
| 05741 | 0340 | 00 | 0 | 06674 | CAS K8D | DECR OF 7777 TEST TAG B |
| 05742 | 0020 | 00 | 0 | 05744 | TRA C10D+6 | ERROR |
| 05743 | 0020 | 00 | 0 | 05746 | TRA C10D+8 | OK |
| 05744 | 0760 | 00 | 0 | 00162 | SWT 2 | ERROR-TEST SWITCH 2 |
| 05745 | 0000 | 00 | 0 | 05746 | HTR C10D+8 | ERROR |
| 05746 | 0760 | 00 | 0 | 00161 | SWT 1 | |
| 05747 | 0020 | 00 | 0 | 05751 | TRA C11D | PROCEED TO NEXT TEST |

| | | | | | | | |
|------------|-------|-------|---|-------|------|-------------------|---------------------------|
| 05750 | 0020 | 00 | 0 | 05736 | TRA | C10D | REPEAT TEST |
| TEST TAG 0 | | | | | | | |
| 05751 | -0534 | 00 | 7 | 06635 | C11D | LXD K0+5,7 | L DEPENDS ON SIZE OF STG. |
| 05752 | 3 | 06777 | 1 | 05760 | TXH | C12D,1,3583 | TEST TXH FOR TRA |
| 05753 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 |
| 05754 | 0000 | 00 | 0 | 05755 | HTR | C11D+4 | ERROR TXH FAILED TO TRA |
| 05755 | 0760 | 00 | 0 | 00161 | SWT | 1 | |
| 05756 | 0020 | 00 | 0 | 05760 | TRA | C12D | PROCEED TO NEXT TEST |
| 05757 | 0020 | 00 | 0 | 05751 | TRA | C11D | REPEAT TEST |
| | | | | | | | |
| 05760 | 3 | 06777 | 0 | 05762 | C12D | TXH C12D+2,0,3583 | TEST TXH WITH TAG 0 |
| 05761 | 0020 | 00 | 0 | 05767 | TRA | C13D | OK |
| 05762 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 |
| 05763 | 0000 | 00 | 0 | 05764 | HTR | C12D+4 | TXH TRANSFERED IN ERROR |
| 05764 | 0760 | 00 | 0 | 00161 | SWT | 1 | |
| 05765 | 0020 | 00 | 0 | 05767 | TRA | C13D | CONTINUE TEST |
| 05766 | 0020 | 00 | 0 | 05760 | TRA | C12D | REPEAT TEST |
| | | | | | | | |
| 05767 | -0754 | 00 | 1 | 00000 | C13D | PXD 0,1 | L 7777 |
| 05770 | 0560 | 00 | 0 | 06674 | LDQ | K8D | CORRECNT NUMBER |
| 05771 | 0340 | 00 | 0 | 06674 | CAS | K8D | CHECK XRA 7777 |
| 05772 | 0020 | 00 | 0 | 05774 | TRA | C13D+5 | ERROR |
| 05773 | 0020 | 00 | 0 | 05776 | TRA | C13D+7 | OK |
| 05774 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 |
| 05775 | 0000 | 00 | 0 | 05776 | HTR | C13D+7 | ERROR |
| 05776 | 0760 | 00 | 0 | 00161 | SWT | 1 | |
| 05777 | 0020 | 00 | 0 | 06001 | TRA | C14D | PROCEED TO NEXT TEST |
| 06000 | 0020 | 00 | 0 | 05760 | TRA | C12D | REPEAT TEST |
| | | | | | | | |
| 06001 | -0754 | 00 | 2 | 00000 | C14D | PXD 0,2 | CHECK XRB 7777 |
| 06002 | 0560 | 00 | 0 | 06674 | LDQ | K8D | CORRECNT NUMBER |
| 06003 | 0340 | 00 | 0 | 06674 | CAS | K8D | |
| 06004 | 0020 | 00 | 0 | 06006 | TRA | C14D+5 | |
| 06005 | 0020 | 00 | 0 | 06010 | TRA | C14D+7 | OK |
| 06006 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 |
| 06007 | 0000 | 00 | 0 | 06010 | HTR | C14D+7 | ERROR |
| 06010 | 0760 | 00 | 0 | 00161 | SWT | 1 | |
| 06011 | 0020 | 00 | 0 | 06013 | TRA | C15D | PROCEED TO NEXT TEST |
| 06012 | 0020 | 00 | 0 | 06001 | TRA | C14D | REPEAT TEST |
| | | | | | | | |
| 06013 | -0754 | 00 | 4 | 00000 | C15D | PXD 0,4 | L 7777 |
| 06014 | 0560 | 00 | 0 | 06674 | LDQ | K8D | CORRECNT NUMBER |
| 06015 | 0340 | 00 | 0 | 06674 | CAS | K8D | CHECK XRC 7777 |
| 06016 | 0020 | 00 | 0 | 06020 | TRA | C15D+5 | |
| 06017 | 0020 | 00 | 0 | 06022 | TRA | C15D+7 | OK |
| 06020 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 |
| 06021 | 0000 | 00 | 0 | 06022 | HTR | C15D+7 | ERROR |
| 06022 | 0760 | 00 | 0 | 00161 | SWT | 1 | |
| 06023 | 0020 | 00 | 0 | 06025 | TRA | C16D | PROCEED TO NEXT TEST |
| 06024 | 0020 | 00 | 0 | 06013 | TRA | C15D | REPEAT TEST |

TEST TIX

| | | | | | | | |
|-------|-------|-------|---|-------|------|-----------------|-------------------------|
| 06025 | 2 | 03777 | 1 | 06033 | C16D | TIX C17D,1,2047 | WITH TAG 1 |
| 06026 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 |
| 06027 | 0000 | 00 | 0 | 06030 | HTR | C16D+3 | TIX FAILED TO TRA |
| 06030 | 0760 | 00 | 0 | 00161 | SWT | 1 | |
| 06031 | 0020 | 00 | 0 | 06033 | TRA | C17D | PROCEED TO NEXT TEST |
| 06032 | 0020 | 00 | 0 | 06025 | TRA | C16D | REPEAT TEST |
| | | | | | | | |
| 06033 | 2 | 00001 | 0 | 06035 | C17D | TIX C17D+2,0,1 | WITH TAG 0 |
| 06034 | 0020 | 00 | 0 | 06042 | TRA | C18D | OK |
| 06035 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 |
| 06036 | 0000 | 00 | 0 | 06037 | HTR | C17D+4 | TIX TRANSFERED IN ERROR |
| 06037 | 0760 | 00 | 0 | 00161 | SWT | 1 | |
| 06040 | 0020 | 00 | 0 | 06042 | TRA | C18D | PROCEED TO NEXT TEST |
| 06041 | 0020 | 00 | 0 | 06033 | TRA | C17D | REPEAT TEST |
| | | | | | | | |
| 06042 | -0754 | 00 | 1 | 00000 | C18D | PXD 0,1 | L 4000 |
| 06043 | 0560 | 00 | 0 | 06673 | LDQ | K7D | CORRECT NUMBER |
| 06044 | 0340 | 00 | 0 | 06673 | CAS | K7D | CHECK XRA 4000 |
| 06045 | 0020 | 00 | 0 | 06047 | TRA | C18D+5 | |
| 06046 | 0020 | 00 | 0 | 06051 | TRA | C18D+7 | OK |
| 06047 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 |
| 06050 | 0000 | 00 | 0 | 06051 | HTR | C18D+7 | |
| 06051 | 0760 | 00 | 0 | 00161 | SWT | 1 | |
| 06052 | 0020 | 00 | 0 | 06054 | TRA | C21D | PROCEED TO NEXT TEST |
| 06053 | 0020 | 00 | 0 | 06033 | TRA | C17D | REPEAT TEST |
| | | | | | | | |
| 06054 | -0754 | 00 | 2 | 00000 | C21D | PXD 0,2 | L 4000 |
| 06055 | 0560 | 00 | 0 | 06674 | LDQ | K8D | CORRECT NUMBER |
| 06056 | 0340 | 00 | 0 | 06674 | CAS | K8D | CHECK XRB 4000 |
| 06057 | 0020 | 00 | 0 | 06061 | TRA | C21D+5 | ERROR |
| 06060 | 0020 | 00 | 0 | 06063 | TRA | C21D+7 | OK |
| 06061 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 |
| 06062 | 0000 | 00 | 0 | 06063 | HTR | C21D+7 | ERROR |
| 06063 | 0760 | 00 | 0 | 00161 | SWT | 1 | |
| 06064 | 0020 | 00 | 0 | 06066 | TRA | C22D | PROCEED TO NEXT TEST |
| 06065 | 0020 | 00 | 0 | 06054 | TRA | C21D | REPEAT TEST |
| | | | | | | | |
| 06066 | -0754 | 00 | 4 | 00000 | C22D | PXD 0,4 | L 4000 |
| 06067 | 0560 | 00 | 0 | 06674 | LDQ | K8D | CORRECT NUMBER |
| 06070 | 0340 | 00 | 0 | 06674 | CAS | K8D | CHECK XRC 4000 |
| 06071 | 0020 | 00 | 0 | 06073 | TRA | C22D+5 | ERROR |
| 06072 | 0020 | 00 | 0 | 06075 | TRA | C22D+7 | OK |
| 06073 | 0760 | 00 | 0 | 00162 | SWT | 2 | ERROR-TEST SWITCH 2 |
| 06074 | 0020 | 00 | 0 | 06066 | TRA | C22D | PROCEED TO NEXT TEST |
| 06075 | 0020 | 00 | 0 | 06100 | TRA | C23D | REPEAT TEST |
| 06076 | 0760 | 00 | 0 | 00161 | SWT | 1 | |
| 06077 | 0000 | 00 | 0 | 06075 | HTR | C22D+7 | ERROR |

TEST TXL

06100 -3 03777 1 06102 C23D TXL C24D,1,2047 SHOULD NOT TRANSFER
06101 0020 00 0 06107 TRA C25D OK
06102 0760 00 0 00162 C24D SWT 2 ERROR-TEST SWITCH 2
06103 0000 00 0 06104 HTR C24D+2 TXL TRANSFERED IN ERROR
06104 0760 00 0 00161 SWT 1
06105 0020 00 0 06107 TRA C25D PROCEED TO NEXT TEST
06106 0020 00 0 06100 TRA C23D REPEAT TEST

06107 -3 07777 0 06115 C25D TXL DD,0,4095 TEST TXL TAG 0
06110 0760 00 0 00162 SWT 2 ERROR-TEST SWITCH 2
06111 0000 00 0 06112 HTR C25D+3 TXL TRANSFERED IN ERROR
06112 0760 00 0 00161 SWT 1
06113 0020 00 0 06115 TRA DD PROCEED TO NEXT TEST
06114 0020 00 0 06107 TRA C25D REPEAT TEST

06115 -0754 00 1 00000 DD PXD 0,1 L 4000
06116 0560 00 0 06673 LDQ K7D CORRECT NUMBER
06117 0340 00 0 06673 CAS K7D CHECK XRA 4000
06120 0020 00 0 06122 TRA DD+5 ERROR
06121 0020 00 0 06124 TRA DD+7 OK
06122 0760 00 0 00162 SWT 2 ERROR-TEST SWITCH 2
06123 0000 00 0 06124 HTR DD+7 ERROR
06124 0760 00 0 00161 SWT 1
06125 0020 00 0 06127 TRA D1D PROCEED TO NEXT TEST
06126 0020 00 0 06115 TRA DD REPEAT TEST

06127 -0754 00 2 00000 D1D PXD 0,2 L 4000
06130 0560 00 0 06674 LDQ K8D CORRECT NUMBER
06131 0340 00 0 06674 CAS K8D CHECK XRB 4000
06132 0020 00 0 06134 TRA D1D+5 ERROR
06133 0020 00 0 06136 TRA D1D+7 OK
06134 0760 00 0 00162 SWT 2 ERROR-TEST SWITCH 2
06135 0000 00 0 06136 HTR D1D+7 ERROR
06136 0760 00 0 00161 SWT 1
06137 0020 00 0 06141 TRA D2D PROCEED TO NEXT TEST
06140 0020 00 0 06127 TRA D1D REPEAT TEST

06141 -0754 00 4 00000 D2D PXD 0,4 L 4000
06142 0560 00 0 06674 LDQ K8D CORRECT NUMBER
06143 0340 00 0 06674 CAS K8D CHECK XRC 4000
06144 0020 00 0 06146 TRA D2D+5 ERROR
06145 0020 00 0 06150 TRA D2D+7 OK
06146 0760 00 0 00162 SWT 2 ERROR-TEST SWITCH 2
06147 0000 00 0 06150 HTR D2D+7 ERROR
06150 0760 00 0 00161 SWT 1
06151 0020 00 0 06153 TRA D3D PROCEED TO NEXT TEST
06152 0020 00 0 06141 TRA D2D REPEAT TEST

TEST TNX

06153 -2 00001 1 06155 D3D TNX D4D,1,1 SHOULD NOT TRANSFER
06154 0020 00 0 06162 TRA D5D OK

| | | | | | | | |
|-------|------|----|---|-------|-----------|-------|-------------------------|
| 06155 | 0760 | 00 | 0 | 00162 | D4D | SWT 2 | ERROR-TEST SWITCH 2 |
| 06156 | 0000 | 00 | 0 | 06157 | HTR D4D+2 | | TNX TRANSFERED IN ERROR |
| 06157 | 0760 | 00 | 0 | 00161 | SWT 1 | | |
| 06160 | 0020 | 00 | 0 | 06162 | TRA D5D | | PROCEED TO NEXT TEST |
| 06161 | 0020 | 00 | 0 | 06153 | TRA D3D | | REPEAT TEST |

| | | | | | | | |
|-------|------|-------|---|-------|-----------|-------------|-------------------------|
| 06162 | -2 | 00000 | 0 | 06170 | D5D | TNX D6D,0,0 | TEST TNX TAG 0 |
| 06163 | 0760 | 00 | 0 | 00162 | SWT 2 | | ERROR-TEST SWITCH 2 |
| 06164 | 0000 | 00 | 0 | 06165 | HTR D5D+3 | | TNX TRANSFERED IN ERROR |
| 06165 | 0760 | 00 | 0 | 00161 | SWT 1 | | |
| 06166 | 0020 | 00 | 0 | 06170 | TRA D6D | | PROCEED TO NEXT TEST |
| 06167 | 0020 | 00 | 0 | 06162 | TRA D5D | | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|-----------|---------|----------------------|
| 06170 | -0754 | 00 | 1 | 00000 | D6D | PXD 0,1 | L 3777 |
| 06171 | 0560 | 00 | 0 | 06675 | LDQ K10D | | CORRECT NUMBER |
| 06172 | 0340 | 00 | 0 | 06675 | CAS K10D | | CHECK XRA 3777 |
| 06173 | 0020 | 00 | 0 | 06175 | TRA D6D+5 | | ERROR |
| 06174 | 0020 | 00 | 0 | 06177 | TRA D6D+7 | | OK |
| 06175 | 0760 | 00 | 0 | 00162 | SWT 2 | | ERROR-TEST SWITCH 2 |
| 06176 | 0000 | 00 | 0 | 06177 | HTR D6D+7 | | ERROR |
| 06177 | 0760 | 00 | 0 | 00161 | SWT 1 | | |
| 06200 | 0020 | 00 | 0 | 06202 | TRA D7D | | PROCEED TO NEXT TEST |
| 06201 | 0020 | 00 | 0 | 06170 | TRA D6D | | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|-----------|---------|----------------------|
| 06202 | -0754 | 00 | 2 | 00000 | D7D | PXD 0,2 | L 3777 |
| 06203 | 0560 | 00 | 0 | 06674 | LDQ K8D | | CORRECT NUMBER |
| 06204 | 0340 | 00 | 0 | 06674 | CAS K8D | | CHECK XRB 3777 |
| 06205 | 0020 | 00 | 0 | 06207 | TRA D7D+5 | | ERROR |
| 06206 | 0020 | 00 | 0 | 06211 | TRA D7D+7 | | OK |
| 06207 | 0760 | 00 | 0 | 00162 | SWT 2 | | ERROR-TEST SWITCH 2 |
| 06210 | 0000 | 00 | 0 | 06211 | HTR D7D+7 | | ERROR |
| 06211 | 0760 | 00 | 0 | 00161 | SWT 1 | | |
| 06212 | 0020 | 00 | 0 | 06214 | TRA D8D | | PROCEED TO NEXT TEST |
| 06213 | 0020 | 00 | 0 | 06202 | TRA D7D | | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|-----------|---------|----------------------|
| 06214 | -0754 | 00 | 4 | 00000 | D8D | PXD 0,4 | L 3777 |
| 06215 | 0560 | 00 | 0 | 06674 | LDQ K8D | | CORRECT NUMBER |
| 06216 | 0340 | 00 | 0 | 06674 | CAS K8D | | CHECK XRC 3777 |
| 06217 | 0020 | 00 | 0 | 06221 | TRA D8D+5 | | ERROR |
| 06220 | 0020 | 00 | 0 | 06223 | TRA D8D+7 | | OK |
| 06221 | 0760 | 00 | 0 | 00162 | SWT 2 | | ERROR-TEST SWITCH 2 |
| 06222 | 0000 | 00 | 0 | 06223 | HTR D8D+7 | | ERROR |
| 06223 | 0760 | 00 | 0 | 00161 | SWT 1 | | |
| 06224 | 0020 | 00 | 0 | 06226 | TRA D9D | | PROCEED TO NEXT TEST |
| 06225 | 0020 | 00 | 0 | 06214 | TRA D8D | | REPEAT TEST |

TEST TXI

| | | | | | | | |
|-------|------|-------|---|-------|-----------|-----------------|------------------------|
| 06226 | 1 | 03777 | 1 | 06234 | D9D | TXI D10D,1,2047 | SHOULD TRANSFER |
| 06227 | 0760 | 00 | 0 | 00162 | SWT 2 | | ERROR-TEST SWITCH 2 |
| 06230 | 0000 | 00 | 0 | 06231 | HTR D9D+3 | | TIX FAILED TO TRANSFER |
| 06231 | 0760 | 00 | 0 | 00161 | SWT 1 | | |
| 06232 | 0020 | 00 | 0 | 06234 | TRA D10D | | PROCEED TO NEXT TEST |

| | | | | | | |
|----------------|-------|-------|---|-------|----------------------|------------------------|
| 06233 | 0020 | 00 | 0 | 06226 | TRA D9D | REPEAT TEST |
| 06234 | 1 | 07777 | 0 | 06242 | D10D TXI D11D,0,4095 | TEST TXI TAG 0 |
| 06235 | 0760 | 00 | 0 | 00162 | SWT 2 | ERROR-TEST SWITCH 2 |
| 06236 | 0000 | 00 | 0 | 06237 | HTR D10D+3 | DID NOT TRANSFER |
| 06237 | 0760 | 00 | 0 | 00161 | SWT 1 | |
| 06240 | 0020 | 00 | 0 | 06242 | TRA D11D | PROCEED TO NEXT TEST |
| 06241 | 0020 | 00 | 0 | 06234 | TRA D10D | REPEAT TEST |
| 06242 | 0754 | 00 | 1 | 00000 | D11D PXA 0,1 | L 7776 |
| 06243 | 0560 | 00 | 0 | 06607 | LDQ L1+6 | CORRECT NUMBER |
| 06244 | 0340 | 00 | 0 | 06607 | CAS L1+6 | CHECK XRA 7776 |
| 06245 | 0020 | 00 | 0 | 06247 | TRA D11D+5 | ERROR |
| 06246 | 0020 | 00 | 0 | 06251 | TRA D11D+7 | OK |
| 06247 | 0760 | 00 | 0 | 00162 | SWT 2 | ERROR-TEST SWITCH 2 |
| 06250 | 0000 | 00 | 0 | 06251 | HTR D11D+7 | ERROR |
| 06251 | 0760 | 00 | 0 | 00161 | SWT 1 | |
| 06252 | 0020 | 00 | 0 | 06254 | TRA D13D | PROCEED TO NEXT TEST |
| 06253 | 0020 | 00 | 0 | 06234 | TRA D10D | REPEAT TEST |
| 06254 | -0754 | 00 | 2 | 00000 | D13D PXD 0,2 | L 7777 |
| 06255 | 0560 | 00 | 0 | 06674 | LDQ K8D | CORRECT NUMBER |
| 06256 | 0340 | 00 | 0 | 06674 | CAS K8D | CHECK XRB 7777 |
| 06257 | 0020 | 00 | 0 | 06261 | TRA D13D+5 | ERROR |
| 06260 | 0020 | 00 | 0 | 06263 | TRA D13D+7 | OK |
| 06261 | 0760 | 00 | 0 | 00162 | SWT 2 | ERROR-TEST SWITCH 2 |
| 06262 | 0000 | 00 | 0 | 06263 | HTR D13D+7 | ERROR |
| 06263 | 0760 | 00 | 0 | 00161 | SWT 1 | |
| 06264 | 0020 | 00 | 0 | 06266 | TRA D14D | PROCEED TO NEXT TEST |
| 06265 | 0020 | 00 | 0 | 06254 | TRA D13D | REPEAT TEST |
| 06266 | -0754 | 00 | 4 | 00000 | D14D PXD 0,4 | L 7777 |
| 06267 | 0560 | 00 | 0 | 06674 | LDQ K8D | CORRECT NUMBER |
| 06270 | 0340 | 00 | 0 | 06674 | CAS K8D | CHECK XRC 7777 |
| 06271 | 0020 | 00 | 0 | 06273 | TRA D14D+5 | ERROR |
| 06272 | 0020 | 00 | 0 | 06275 | TRA D14D+7 | OK |
| 06273 | 0760 | 00 | 0 | 00162 | SWT 2 | ERROR-TEST SWITCH 2 |
| 06274 | 0000 | 00 | 0 | 06275 | HTR D14D+7 | ERROR |
| 06275 | 0760 | 00 | 0 | 00161 | SWT 1 | |
| 06276 | 0020 | 00 | 0 | 06300 | TRA D15D | PROCEED TO NEXT TEST |
| 06277 | 0020 | 00 | 0 | 06266 | TRA D14D | REPEAT TEST |
| TEST TSX TAG 1 | | | | | | |
| 06300 | 0074 | 00 | 1 | 06306 | D15D TSX D16D,1 | SHOULD TRANSFER |
| 06301 | 0760 | 00 | 0 | 00162 | SWT 2 | ERROR-TEST SWITCH 2 |
| 06302 | 0000 | 00 | 0 | 06303 | HTR D15D+3 | TSX FAILED TO TRANSFER |
| 06303 | 0760 | 00 | 0 | 00161 | SWT 1 | |
| 06304 | 0020 | 00 | 0 | 06306 | TRA D16D | PROCEED TO NEXT TEST |
| 06305 | 0020 | 00 | 0 | 06300 | TRA D15D | REPEAT TEST |

| | | | | | | | |
|----------------|-------|-------|---|-------|------|------------------|---|
| 06306 | -0754 | 00 | 1 | 00000 | D16D | PXD 0,1 | |
| 06307 | -0737 | 00 | 1 | 00000 | | PDC 0,1 | RE-COMPLEMENT TO GET THE ADR. OF TSX INSTRUCTION |
| 06310 | 3 | 06277 | 1 | 06312 | | TXH *+2,1,D15D-1 | SHOULD TRANSFER |
| 06311 | 0000 | 00 | 0 | 06312 | | HTR *+1 | ERROR XRA=D15D DEC.=D15D-1 |
| 06312 | -3 | 06300 | 1 | 06314 | | TXL *+2,1,D15D | SHOULD TRANSFER |
| 06313 | 0000 | 00 | 0 | 06314 | | HTR *+1 | ERROR XRA=DEC=D15D |
| 06314 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 06315 | 0020 | 00 | 0 | 06317 | | TRA D17D | PROCEED TO NEXT TEST |
| 06316 | 0020 | 00 | 0 | 06306 | | TRA D16D | REPEAT TEST |
| | | | | | | | |
| 06317 | -0754 | 00 | 2 | 00000 | D17D | PXD 0,2 | L 7777 |
| 06320 | 0560 | 00 | 0 | 06674 | | LDQ K8D | CORRECT NUMBER |
| 06321 | 0340 | 00 | 0 | 06674 | | CAS K8D | CHECK XRB 7777 |
| 06322 | 0020 | 00 | 0 | 06324 | | TRA D17D+5 | ERROR |
| 06323 | 0020 | 00 | 0 | 06326 | | TRA D17D+7 | OK |
| 06324 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 06325 | 0000 | 00 | 0 | 06326 | | HTR D17D+7 | ERROR |
| 06326 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 06327 | 0020 | 00 | 0 | 06331 | | TRA D19D | PROCEED TO NEXT TEST |
| 06330 | 0020 | 00 | 0 | 06317 | | TRA D17D | REPEAT TEST |
| | | | | | | | |
| 06331 | -0754 | 00 | 4 | 00000 | D19D | PXD 0,4 | L 7777 |
| 06332 | 0560 | 00 | 0 | 06674 | | LDQ K8D | CORRECT NUMBER |
| 06333 | 0340 | 00 | 0 | 06674 | | CAS K8D | CHECK XRC 7777 |
| 06334 | 0020 | 00 | 0 | 06336 | | TRA D19D+5 | ERROR |
| 06335 | 0020 | 00 | 0 | 06340 | | TRA D19D+7 | OK |
| 06336 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 06337 | 0000 | 00 | 0 | 06340 | | HTR D19D+7 | ERROR |
| 06340 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 06341 | 0020 | 00 | 0 | 06343 | | TRA D20D | PROCEED TO NEXT TEST |
| 06342 | 0020 | 00 | 0 | 06331 | | TRA D19D | REPEAT TEST |
| | | | | | | | |
| TEST TSX TAG 0 | | | | | | | |
| | | | | | | | |
| 06343 | 0074 | 00 | 0 | 06351 | D20D | TSX D21D,0 | SHOULD TRANSFER BUT XRA SHOULD STILL = D15D |
| 06344 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 06345 | 0000 | 00 | 0 | 06346 | | HTR D20D+3 | TSX FAILED TO TRANSFER |
| 06346 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 06347 | 0020 | 00 | 0 | 06351 | | TRA D21D | PROCEED TO NEXT TEST |
| 06350 | 0020 | 00 | 0 | 06343 | | TRA D20D | REPEAT TEST |
| | | | | | | | |
| 06351 | 3 | 06277 | 1 | 06353 | D21D | TXH *+2,1,D15D-1 | SHOULD TRANSFER |
| 06352 | 0000 | 00 | 0 | 06353 | | HTR *+1 | ERROR XRA=D15D DEC.=D15D-1 |
| 06353 | -3 | 06300 | 1 | 06355 | | TXL *+2,1,D15D | SHOULD TRANSFER |
| 06354 | 0000 | 00 | 0 | 06355 | | HTR *+1 | ERROR XRA=DEC=D15D |
| 06355 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 06356 | 0020 | 00 | 0 | 06360 | | TRA D22D | PROCEED TO NEXT TEST |
| 06357 | 0020 | 00 | 0 | 06351 | | TRA D21D | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|------|------------|----------------------|
| 06360 | -0754 | 00 | 2 | 00000 | D22D | PXD 0,2 | L 7777 |
| 06361 | 0560 | 00 | 0 | 06674 | | LDQ K8D | CORRECT NUMBER |
| 06362 | 0340 | 00 | 0 | 06674 | | CAS K8D | CHECK XRB 7777 |
| 06363 | 0020 | 00 | 0 | 06365 | | TRA D22D+5 | ERROR |
| 06364 | 0020 | 00 | 0 | 06367 | | TRA D22D+7 | OK |
| 06365 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 06366 | 0000 | 00 | 0 | 06367 | | HTR D22D+7 | ERROR |
| 06367 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 06370 | 0020 | 00 | 0 | 06372 | | TRA D23D | PROCEED TO NEXT TEST |
| 06371 | 0020 | 00 | 0 | 06360 | | TRA D22D | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|------|------------|----------------------|
| 06372 | -0754 | 00 | 4 | 00000 | D23D | PXD 0,4 | L 7777 |
| 06373 | 0560 | 00 | 0 | 06674 | | LDQ K8D | CORRECT NUMBER |
| 06374 | 0340 | 00 | 0 | 06674 | | CAS K8D | CHECK XRC 7777 |
| 06375 | 0020 | 00 | 0 | 06377 | | TRA D23D+5 | ERROR |
| 06376 | 0020 | 00 | 0 | 06401 | | TRA D23D+7 | OK |
| 06377 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 06400 | 0000 | 00 | 0 | 06401 | | HTR D23D+7 | ERROR |
| 06401 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 06402 | 0020 | 00 | 0 | 06404 | | TRA D24D | PROCEED TO NEXT TEST |
| 06403 | 0020 | 00 | 0 | 06372 | | TRA D23D | REPEAT TEST |

TEST LXA WITH TAG OF ZERO

| | | | | | | | |
|-------|-------|----|---|-------|------|------------|------------------------|
| 06404 | 0534 | 00 | 7 | 06701 | D24D | LXA K17D,7 | L ZEROS |
| 06405 | 0534 | 00 | 0 | 06635 | | LXA K0+5,0 | L 7777 |
| 06406 | -0754 | 00 | 1 | 00000 | | PXD 0,1 | L ZEROS CHECK XRA |
| 06407 | 0100 | 00 | 0 | 06412 | | TZE D24D+6 | OK |
| 06410 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 06411 | 0000 | 00 | 0 | 06412 | | HTR D24D+6 | ERROR |
| | | | | | | | DECR OF ACC INDICATES |
| | | | | | | | ERROR WHICH WAS LOADED |
| | | | | | | | INTO XRA |
| 06412 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 06413 | 0020 | 00 | 0 | 06415 | | TRA D25D | PROCEED TO NEXT TEST |
| 06414 | 0020 | 00 | 0 | 06404 | | TRA D24D | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|------|------------|----------------------|
| 06415 | -0754 | 00 | 2 | 00000 | D25D | PXD 0,2 | CHECK XRB |
| 06416 | 0100 | 00 | 0 | 06421 | | TZE D25D+4 | OK |
| 06417 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 06420 | 0000 | 00 | 0 | 06421 | | HTR D25D+4 | ERROR IN XRB |
| 06421 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 06422 | 0020 | 00 | 0 | 06424 | | TRA ED | PROCEED TO NEXT TEST |
| 06423 | 0020 | 00 | 0 | 06415 | | TRA D25D | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|----|----------|---------------------|
| 06424 | -0754 | 00 | 4 | 00000 | ED | PXD 0,4 | CHECK XRB |
| 06425 | 0100 | 00 | 0 | 06430 | | TZE ED+4 | OK |
| 06426 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 06427 | 0000 | 00 | 0 | 06430 | | HTR ED+4 | ERROR IN XRC |

| | | | | | | | |
|-------|------|----|---|-------|-----|-------|----------------------|
| 06430 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 06431 | 0020 | 00 | 0 | 06433 | TRA | E1D | PROCEED TO NEXT TEST |
| 06432 | 0020 | 00 | 0 | 06424 | TRA | ED | REPEAT TEST |

TEST LXD WITH TAG OF ZERO

| | | | | | | | |
|-------|-------|----|---|-------|-----|------------|----------------------|
| 06433 | 0534 | 00 | 7 | 06701 | E1D | LXA K17D,7 | L ZEROS |
| 06434 | -0534 | 00 | 0 | 06635 | | LXD K0+5,0 | L 7777 |
| 06435 | -0754 | 00 | 1 | 00000 | | PXD 0,1 | L ZEROS CHECK XRA |
| 06436 | 0100 | 00 | 0 | 06441 | | TZE E1D+6 | OK |
| 06437 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 06440 | 0000 | 00 | 0 | 06441 | | HTR E1D+6 | ERROR XRA |
| 06441 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 06442 | 0020 | 00 | 0 | 06444 | TRA | E2D | PROCEED TO NEXT TEST |
| 06443 | 0020 | 00 | 0 | 06433 | TRA | E1D | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|----------------------|
| 06444 | -0754 | 00 | 2 | 00000 | E2D | PXD 0,2 | CHECK XRB |
| 06445 | 0100 | 00 | 0 | 06450 | | TZE E2D+4 | OK |
| 06446 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 06447 | 0000 | 00 | 0 | 06450 | | HTR E2D+4 | ERROR IN XRB |
| 06450 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 06451 | 0020 | 00 | 0 | 06453 | TRA | E3D | PROCEED TO NEXT TEST |
| 06452 | 0020 | 00 | 0 | 06444 | TRA | E2D | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|----------------------|
| 06453 | -0754 | 00 | 4 | 00000 | E3D | PXD 0,4 | CHECK XRB |
| 06454 | 0100 | 00 | 0 | 06457 | | TZE E3D+4 | OK |
| 06455 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 06456 | 0000 | 00 | 0 | 06457 | | HTR E3D+4 | ERROR IN XRC |
| 06457 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 06460 | 0020 | 00 | 0 | 06462 | TRA | E4D | PROCEED TO NEXT TEST |
| 06461 | 0020 | 00 | 0 | 06453 | TRA | E3D | REPEAT TEST |

TEST PAX WITH TAG OF ZERO

| | | | | | | | |
|-------|-------|----|---|-------|-----|------------|------------------------|
| 06462 | 0500 | 00 | 0 | 06635 | E4D | CLA K0+5 | L-3077777707777 FOR 4K |
| 06463 | 0534 | 00 | 7 | 06701 | | LXA K17D,7 | L ZEROS |
| 06464 | 0734 | 00 | 0 | 06635 | | PAX K0+5,0 | L 7777 |
| 06465 | -0754 | 00 | 1 | 00000 | | PXD 0,1 | CHECK XRA |
| 06466 | 0100 | 00 | 0 | 06471 | | TZE E4D+7 | OK |
| 06467 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 06470 | 0000 | 00 | 0 | 06471 | | HTR E4D+7 | ERROR XRA |
| 06471 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 06472 | 0020 | 00 | 0 | 06474 | TRA | E5D | PROCEED TO NEXT TEST |
| 06473 | 0020 | 00 | 0 | 06462 | TRA | E4D | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|----------------------|
| 06474 | -0754 | 00 | 2 | 00000 | E5D | PXD 0,2 | CHECK XRB |
| 06475 | 0100 | 00 | 0 | 06500 | | TZE E5D+4 | OK |
| 06476 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 06477 | 0000 | 00 | 0 | 06500 | | HTR E5D+4 | ERROR IN XRB |
| 06500 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 06501 | 0020 | 00 | 0 | 06503 | TRA | E6D | PROCEED TO NEXT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|----------------------|
| 06502 | 0020 | 00 | 0 | 06474 | | TRA E5D | REPEAT TEST |
| 06503 | -0754 | 00 | 4 | 00000 | E6D | PXD 0,4 | CHECK XRB |
| 06504 | 0100 | 00 | 0 | 06507 | | TZE E6D+4 | OK |
| 06505 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 06506 | 0000 | 00 | 0 | 06507 | | HTR E6D+4 | ERROR IN XRC |
| 06507 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 06510 | 0020 | 00 | 0 | 06512 | | TRA E7D | PROCEED TO NEXT TEST |
| 06511 | 0020 | 00 | 0 | 06503 | | TRA E6D | REPEAT TEST |

TEST PDX WITH TAG OF ZERO

| | | | | | | | |
|-------|-------|----|---|-------|-----|------------|------------------------|
| 06512 | 0500 | 00 | 0 | 06635 | E7D | CLA K0+5 | L-3077777707777 FOR 4K |
| 06513 | 0534 | 00 | 7 | 06701 | | LXA K17D,7 | L ZEROS |
| 06514 | -0734 | 00 | 0 | 06635 | | PDX K0+5,0 | L 7777 |
| 06515 | -0754 | 00 | 1 | 00000 | | PXD 0,1 | CHECK XRA |
| 06516 | 0100 | 00 | 0 | 06521 | | TZE E7D+7 | OK |
| 06517 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 06520 | 0000 | 00 | 0 | 06521 | | HTR E7D+7 | ERROR XRA |
| 06521 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 06522 | 0020 | 00 | 0 | 06524 | | TRA E8D | PROCEED TO NEXT TEST |
| 06523 | 0020 | 00 | 0 | 06512 | | TRA E7D | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|----------------------|
| 06524 | -0754 | 00 | 2 | 00000 | E8D | PXD 0,2 | CHECK XRB |
| 06525 | 0100 | 00 | 0 | 06530 | | TZE E8D+4 | OK |
| 06526 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 06527 | 0000 | 00 | 0 | 06530 | | HTR E8D+4 | ERROR IN XRB |
| 06530 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 06531 | 0020 | 00 | 0 | 06533 | | TRA E9D | PROCEED TO NEXT TEST |
| 06532 | 0020 | 00 | 0 | 06524 | | TRA E8D | REPEAT TEST |

| | | | | | | | |
|-------|-------|----|---|-------|-----|-----------|----------------------|
| 06533 | -0754 | 00 | 4 | 00000 | E9D | PXD 0,4 | CHECK XRB |
| 06534 | 0100 | 00 | 0 | 06537 | | TZE E9D+4 | OK |
| 06535 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 06536 | 0000 | 00 | 0 | 06537 | | HTR E9D+4 | ERROR IN XRC |
| 06537 | 0760 | 00 | 0 | 00161 | | SWT 1 | |
| 06540 | 0020 | 00 | 0 | 06542 | | TRA E10D | PROCEED TO NEXT TEST |
| 06541 | 0020 | 00 | 0 | 06533 | | TRA E9D | REPEAT TEST |

TEST SXD WITH TAG OF ZERO

| | | | | | | | |
|-------|-------|----|---|-------|------|------------|---------------------|
| 06542 | 0534 | 00 | 7 | 06635 | E10D | LXA K0+5,7 | L ZEROS |
| 06543 | 0500 | 00 | 0 | 06632 | | CLA K0+2 | L ALL ONES |
| 06544 | 0601 | 00 | 0 | 06713 | | STO J1D | TEMPORARY STG |
| 06545 | -0634 | 00 | 0 | 06713 | | SXD J1D,0 | |
| 06546 | 0500 | 00 | 0 | 06713 | | CLA J1D | |
| 06547 | 0402 | 00 | 0 | 06704 | | SUB K21AD | L -300000777777 |
| 06550 | 0100 | 00 | 0 | 06553 | | TZE E10D+9 | OK |
| 06551 | 0760 | 00 | 0 | 00162 | | SWT 2 | ERROR-TEST SWITCH 2 |
| 06552 | 0000 | 00 | 0 | 06553 | | HTR E10D+9 | ERROR XRA |
| 06553 | 0760 | 00 | 0 | 00161 | | SWT 1 | |

06554 0020 00 0 06556 TRA E11D PROCEED TO NEXT TEST
06555 0020 00 0 06542 TRA E10D REPEAT TEST

TEST PXD WITH TAG OF ZERO

06556 0500 00 0 06635 E11D CLA K0+5 L-3077777707777 FOR 4K
06557 0534 00 7 06635 LXA K0+5,7 L 7777
06560 -0754 00 0 00000 PXD 0,0
06561 0100 00 0 06564 TZE E11D+6 OK
06562 0760 00 0 00162 SWT 2 ERROR-TEST SWITCH 2
06563 0000 00 0 06564 HTR E11D+6 ERROR XRA
06564 0760 00 0 00161 SWT 1
06565 0020 00 0 06567 TRA N17C-2 PROCEED TO NEXT TEST
06566 0020 00 0 06556 TRA E11D REPEAT TEST

*ERASE PRINT INSTRUCTION SO THAT THE SIZE OF STORAGE
*WILL ONLY BE PRINTED OUT ONCE.

06567 0500 00 0 06733 CLA CAA+1 L TRA SC
06570 0601 00 0 01546 STO PRINT

06571 0760 00 0 00166 N17C SWT 6
06572 0020 00 0 06574 TRA *+2
06573 0020 00 0 06771 TRA HJW PRINT OUT PASS COMPLETE

RDS

06574 0762 00 0 01321 N16C RCDA READ IN NEXT PROGRAM
06575 0540 00 0 06600 RCHA CNTW
06576 0544 00 0 00000 LCHA 0
06577 0020 00 0 00001 TRA 1
06600 -1 00003 0 00000 CNTW MON 0,0,3

CONSTANTS

06601 +000001000000 L1 OCT 000001000000 CONSTANTS
06602 +000002000000 OCT +000002000000
06603 +100014100002 OCT +100014100002
06604 0052 66 0 00000 HTR 0,0,4096-G1-1 THESE VARY DEPENDING
 UPON SIZE OF STG
06605 +000000007777 OCT 7777 77777, 37777, 27777, 17777,
 OR 7777 IN ADDRESS
06606 +000000000001 OCT +000000000001
06607 +000000007776 OCT 7776 77776, 37776, 27776, 17776,
 OR 7776 IN ADDRESS
06610 +000000010000 OCT 10000 100000, 40000, 30000, 20000,
 OR 10000 IN ADDRESS
06611 +000000077777 OCT +000000077777
06612 +000000000000 OCT +000000000000

| | | | | | |
|-----------|-----------------|------|-----|----------------|--|
| 06613 | +000020000030 | | OCT | +0020000030 | |
| 06614 | +000000000002 | | OCT | +000000000002 | |
| 06615 | +000000001000 | | OCT | +00000001000 | |
| 06616 | +000000000100 | | OCT | +00000000100 | |
| 06617 | 0000 00 0 02512 | | HTR | G1+1 | |
| 06620 | +000000000001 | L2 | OCT | 1 | |
| 06621 | +000000000000 | M | OCT | +00000000000 | |
| 06622 | 0074 00 1 02703 | | TSX | M4,1 | |
| 06623 | +000000000000 | | OCT | +00000000000 | TEMP STORAGE |
| 06624 | 0051 00 0 00000 | | HTR | 0,0,4096-M3 | |
| 06625 | 0000 00 0 02700 | | HTR | M3 | |
| 06626 | 0534 00 1 06601 | | LXA | L1,1 | |
| 06627 | -327777727777 | K00 | OCT | -327777727777 | |
| 06630 | +000000000000 | K0 | OCT | 0 | |
| 06631 | +000000000001 | | OCT | 1 | |
| 06632 | -377777777777 | | OCT | -377777777777 | |
| 06633 | -337777737777 | | OCT | -337777737777 | |
| 06634 | -317777717777 | | OCT | -317777717777 | |
| 06635 | -307777707777 | | OCT | -307777707777 | FOR 4K |
| | | | | -317777717777 | FOR 8K |
| | | | | -327777727777 | FOR 12K |
| | | | | -337777737777 | FOR 16K |
| | | | | -377777777777 | FOR ALL OTHERS |
| 06636 | +345252742525 | | OCT | 345252742525 | |
| 06637 | +005253000000 | | OCT | 005253000000 | FOR 4K |
| | | | | 015253000000 | FOR 8K |
| | | | | 035253000000 | FOR ALL OTHERS |
| 06640 | +002526000000 | | OCT | 002526000000 | FOR 4K |
| | | | | 012526000000 | FOR 8K |
| | | | | 032526000000 | FOR ALL OTHERS |
| 06641 | +035253000000 | K2 | OCT | 035253000000 | |
| 06642 | +015253000000 | | OCT | 015253000000 | |
| 06643 | +032526000000 | K3 | OCT | 032526000000 | |
| 06644 | +012526000000 | | OCT | 012526000000 | |
| 06645 | +000000000000 | T1 | OCT | 0 | TEMP. STORAGE |
| CONSTANTS | | | | | |
| 06646 | 0041 11 0 00000 | S1B | HTR | 0,0,4096-G1B-1 | THESE VARY DEPENDING UPON SIZE OF STG |
| 06647 | 0000 00 0 03667 | S2B | HTR | G1B+1 | |
| 06650 | 0074 00 2 04060 | S3B | TSX | M4B,2 | |
| 06651 | 0037 23 0 00000 | S4B | HTR | 0,0,4096-M3B | THESE VARY DEPENDING UPON SIZE OF STG. |
| 06652 | 0000 00 0 04055 | S5B | HTR | M3B | |
| 06653 | 0534 00 2 06601 | S6B | LXA | L1,2 | |
| 06654 | +000000000000 | S7B | OCT | 0 | TEMPORARY STORAGE |
| 06655 | +100014200002 | S10B | OCT | +100014200002 | |
| CONSTANTS | | | | | |
| 06656 | 0027 35 0 00000 | S1C | HTR | 0,0,4096-G1C-1 | THESE VARY DEPENDING UPON SIZE OF STG. |
| 06657 | 0000 00 0 05043 | S2C | HTR | G1C+1 | |
| 06660 | 0074 00 4 05234 | S3C | TSX | M4C,4 | |
| 06661 | 0025 47 0 00000 | S4C | HTR | 0,0,4096-M3C | THESE VARY DEPENDING UPON SIZE OF STG. |

06662 0000 00 0 05231 S5C HTR M3C
06663 0534 00 4 06601 S6C LXA L1,4
06664 +000000000000 S7C OCT 0 TEMPORARY STORAGE
06665 +100014400002 S10C OCT +100014400002

06666 +100000000000 K2D OCT 100000000000
06667 +000000100000 K3D OCT 000000100000
06670 +040000000000 K4D OCT 040000000000
06671 +025252525252 K5D OCT 025252525252
06672 +052525252525 K6D OCT 052525252525
06673 +004000000000 K7D OCT 004000000000
06674 +007777000000 K8D OCT 007777000000
06675 +003777000000 K10D OCT 003777000000
06676 +003776000000 K11D OCT 003776000000
06677 0015 00 0 00000 K12D HTR 0,0,4096-D15D
06700 +000001000000 K14D OCT 000001000000
06701 +000000000000 K17D OCT 0
06702 +000000010000 K20D OCT 10000
06703 +000000020000 K21D OCT 20000
06704 -300000777777 K21AD OCT 700000777777
06705 +000000030000 K22D OCT 30000

06706 +014000014000 L5D OCT 014000014000
06707 +024000024000 L7D OCT 024000024000
06710 +034000034000 L11D OCT 034000034000
06711 +074000074000 L12D OCT 074000074000
06712 +002753000000 L13D OCT 002753000000

06713 +000000000000 J1D OCT 0 TEST WORD STORAGE
06714 -377777777777 K00D OCT 777777777777
06715 -266666666666 K01D OCT 666666666666
06716 -155555555555 K02D OCT 555555555555
06717 -044444444444 K03D OCT 444444444444
06720 +333333333333 K04D OCT 333333333333
06721 +222222222222 K05D OCT 222222222222
06722 +111111111111 K06D OCT 111111111111
06723 +000000001111 K1111 OCT 1111
06724 +000000002222 K2222 OCT 2222
06725 +000000004444 K4444 OCT 4444

06726 +370000777777 W OCT 370000777777
06727 +070000000000 X OCT 070000000000
06730 +377777770000 Y OCT 377777770000
06731 +000000070000 Z OCT 000000070000
06732 +000546000000 CAA OCT 546000000
06733 0020 00 0 01553 TRA SC

06734 0766 00 0 01361 WPRA
06735 0760 00 0 01363 SPRA 3
06736 0540 00 0 06740 RCHA PRT PRINT PROGRAM NAME
06737 0020 00 0 00000 TRA 0 START
06740 0000 30 0 06741 PRT IOCD PRG,0,24

*PRINT IMAGE FOR NOW RUNNING 9M03A- INDEXING TEST

| | | | | |
|-------|---------------|-----|------------------|-----|
| 06741 | +000000421004 | PRG | OCT 421004 | 9L |
| 06742 | +100000000000 | | OCT 100000000000 | 9R |
| 06743 | +000000000000 | | OCT 0 | 8L |
| 06744 | +000000000000 | | OCT 0 | 8R |
| 06745 | +000000004000 | | OCT 4000 | 7L |
| 06746 | +220000000000 | | OCT 220000000000 | 7R |
| 06747 | +000006000000 | | OCT 6000000 | 6L |
| 06750 | +000000000000 | | OCT 0 | 6R |
| 06751 | +000010150002 | | OCT 10150002 | 5L |
| 06752 | -042000000000 | | OCT 442000000000 | 5R |
| 06753 | +000000200401 | | OCT 200401 | 4L |
| 06754 | +000000000000 | | OCT 0 | 4R |
| 06755 | +000000000100 | | OCT 100 | 3L |
| 06756 | +004400000000 | | OCT 4400000000 | 3R |
| 06757 | +000000000000 | | OCT 0 | 2L |
| 06760 | +001000000000 | | OCT 1000000000 | 2R |
| 06761 | +000000000040 | | OCT 40 | 1L |
| 06762 | +000000000000 | | OCT 0 | 1R |
| 06763 | +000002200200 | | OCT 2200200 | 0L |
| 06764 | +205400000000 | | OCT 205400000000 | 0R |
| 06765 | +000014550412 | | OCT 14550412 | 11L |
| 06766 | +040000000000 | | OCT 4000000000 | 11R |
| 06767 | +000000024045 | | OCT 24045 | 12L |
| 06770 | -122000000000 | | OCT 522000000000 | 12R |

| | | | | |
|-------|-----------------|-----|--------------|---------------------|
| 06771 | 0766 00 0 01361 | HJW | WPRA | |
| 06772 | 0760 00 0 01363 | | SPRA 3 | |
| 06773 | 0540 00 0 06775 | | RCHA PR | PRINT PASS COMPLETE |
| 06774 | 0020 00 0 00001 | | TRA 1 | REPEAT TEST |
| 06775 | 0000 30 0 06776 | PR | IOCD PG,0,24 | |

*PRINT IMAGE FOR PASS COMPLETE - 9M03A

| | | | | |
|-------|---------------|----|------------------|----|
| 06776 | +000000000000 | PG | OCT 0 | 9L |
| 06777 | +001000000000 | | OCT 1000000000 | 9R |
| 07000 | +000000000000 | | OCT 0 | 8L |
| 07001 | +000000000000 | | OCT 0 | 8R |
| 07002 | +000000000200 | | OCT 200 | 7L |
| 07003 | -000000000000 | | OCT 400000000000 | 7R |
| 07004 | +000000000002 | | OCT 2 | 6L |
| 07005 | +000000000000 | | OCT 0 | 6R |
| 07006 | +000000000000 | | OCT 0 | 5L |
| 07007 | +120000000000 | | OCT 120000000000 | 5R |
| 07010 | +000000000001 | | OCT 1 | 4L |
| 07011 | +000400000000 | | OCT 400000000 | 4R |
| 07012 | +000000000004 | | OCT 4 | 3L |
| 07013 | +240100000000 | | OCT 240100000000 | 3R |
| 07014 | +000000000060 | | OCT 60 | 2L |
| 07015 | +000000000000 | | OCT 0 | 2R |

| | | | |
|-------|----------------|------------------|-----|
| 07016 | +0000000000100 | OCT 100 | 1L |
| 07017 | +0000400000000 | OCT 40000000 | 1R |
| 07020 | +0000000000060 | OCT 60 | 0L |
| 07021 | +0402000000000 | OCT 40200000000 | 0R |
| 07022 | +0000000000203 | OCT 203 | 11L |
| 07023 | -2044000000000 | OCT 604400000000 | 11R |
| 07024 | +0000000000104 | OCT 104 | 12L |
| 07025 | +1200400000000 | OCT 120040000000 | 12R |

00000

END

EOF*