

NO. 2172330
 SHEET 0
 OF 19

DIAGNOSTIC TEST

DIPAL NAME IS DX01

TITLE HEADER TEST - DTX01
 MACH. TYPE 1620-I BY HNJ APPR. DATE

ENGINEERING CHANGE HISTORY

E/C NO.	DATE	SHEETS AFFECTED
404980	5-7-64	1 - 19

E/C NO.	404980						
DATE	5-7-64						

DTX01
1620-1 HEADER TEST
DIPAL NAME DX01

PROGRAM DESCRIPTION

1. Purpose

This program tests the circuitry used by the following operations, which includes all of the instructions used by the SPS loader. The BTM test is incomplete, a complete test is made in DTX02.

B
NOP
Console Switch Tests
BNR
BD
BNF
TDM
TD
SF
CF
TFM
TF
TR
BTM
BB
SAVE
INSERT
RELEASE/START

2. Test Method

This test is a fault detection test, and is divided into short, independent routines. The Console Switch is the first test in the program and is executed only on the first pass. All other tests have normal switch options for looping, halting, typing or bypassing error indications. A special loader, which only uses Read Numeric and Branch Instructions, is used. The cards are punched with data in columns 1 - 75, and a 5 digit card number in 76-80. The cards must be in sequence to be loaded.

3. Modification

This program cannot be independently loaded by DIPAL. It must be followed by DTX02 and the two programs will be loaded as one. The operation from the file will be the same as from cards.

4. Units of System required

This test requires the 1620 CPU and 1622 Card Reader or 1621 Paper Tape Reader.

5. E/C Level - Any level

LOADING INSTRUCTIONS

1. Clear core by inserting 31 00003 00002.
Release/Start
2. Load test deck from 1622 by pushing LOAD button.
3. To load from paper tape, insert

36 00000 00300

DT XØ1/XØ2 are on one tape, and will be loaded as one program. The operation will be the same as from cards.

To bypass the divide test,

Store 49 17710 , starting at

LOC 13542.

To reproduce the tape, insert 36 00000 00300, release and press "SIE" button. After the tape has read in, insert

LOC
00000 35 00000 00200
00012 41 07914 00000
00024 16 00013 00049
00036 16 00001 00041
00048 49 07914 00000

Release/start

When MAR reaches 17,920, stop by pressing "SCE" button, reset, and insert 35 19999 00200, release/start.

CAUTION: The punch must be stopped before MAR reaches 18,000, or the tape cannot be used with DIPAL.

OPERATING INSTRUCTIONS

1. Manual Tests

Three of the tests require manual intervention: Console Switches ON, Console Switches OFF, and the SAVE and insert test. For these tests, instructions to the operator will be typed out and the machine will halt to allow the manual operation. These tests will only be performed on the first pass.

2. End of First Pass

Program will typeout test complete and instructions to set Switch 4, then halt. This is only typed out after the first pass.

3. Program Control Switches

The Console Switches have the following functions after the switches themselves have been tested.

- Switch 1 ON - Bypass all Error routines
 OFF - Test Switch 3 on Error
- Switch 2 ON - Loop in test routine
 OFF - Continue to next routine
- Switch 3 ON - Halt on Error if Switch 1 OFF
 OFF - Typeout on Error if Switch 1 OFF
- Switch 4 ON - Repeat program
 OFF - Load next program from 1622

NOTE: The load routine examines the first program card of the next deck to see if it is DTX02. If it is, the program will be modified so that both the header test and DTX02 will be executed as one program. If the next deck is not DTX02, control will go directly to the next program.

4. Data Check Switches

This program does not test the indicator lights other than try to reset them. The data check switches may be set as desired.

5. Normal Program Halts

- 00512 Allow switches to be set on
00980 Allow switches to be set off
04196 Pass complete. Set Switch 4 and continue.

ERROR INFORMATION

1. Error Halts

The following program halts are error halts. Refer to the program listing for explanations.

01268	02060	02972
01376	02168	03092
01484	02264	03236
01580	02372	03380
01676	02480	03536
01772	02600	03656
01868	02720	03908
01964	02840	04136

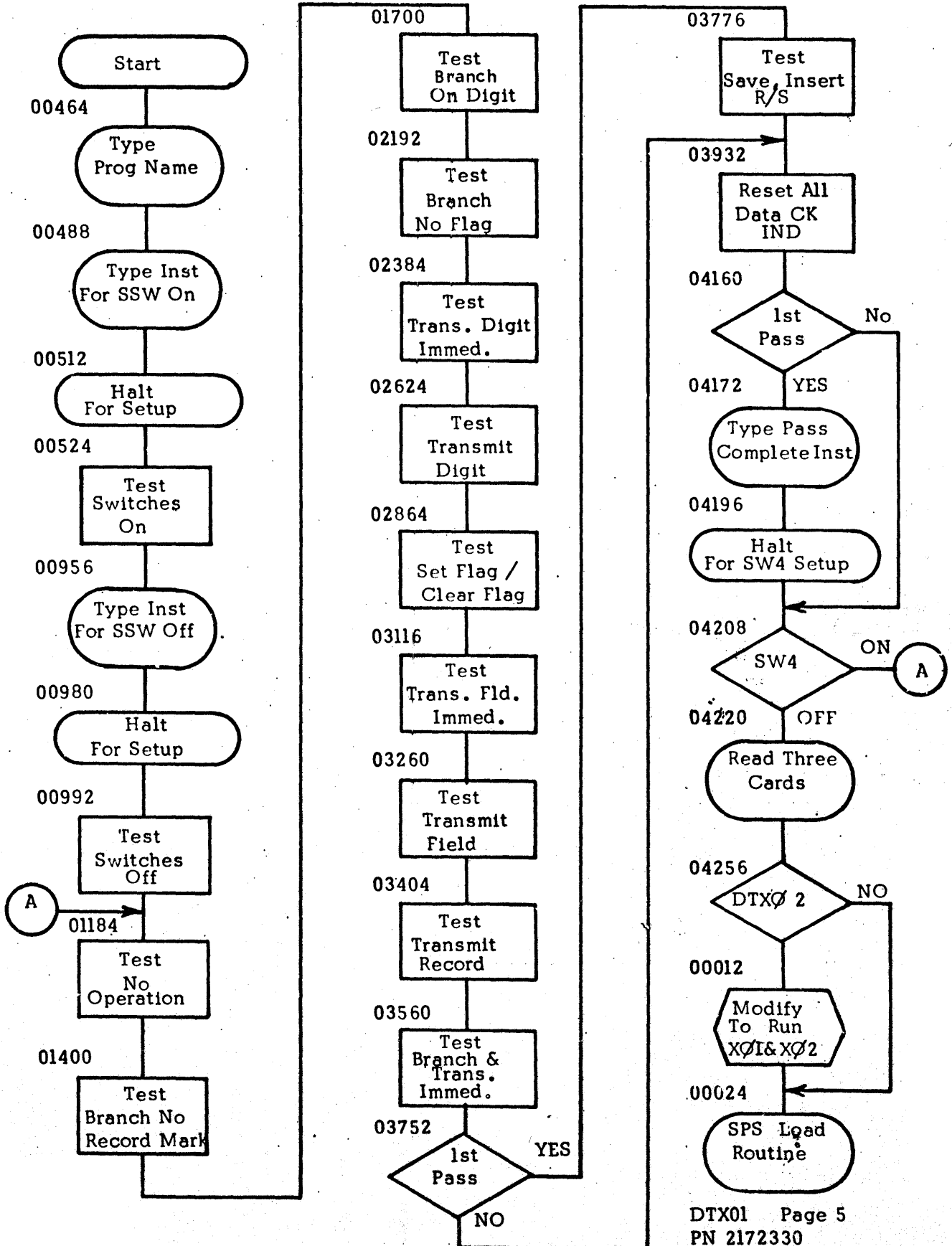
ERROR INFORMATION Continued

2. Error Typeouts

Error messages are typed out in the following format:

TEST T10.0, BC1 FAILED WITH SW1 ON

The tests are labeled as T10.0 through T46.0, and are sequential in the listing. The test number will appear on the first instruction of the failing routine.



DTX01
SPECIAL LOADER PAGE 1 of 3

<u>LOCATION</u>	<u>INST</u>	<u>OP CODE</u>	<u>P FLD</u>	<u>Q FLD.</u>
00000	RNCD	36	00072	00500
00012	RNCD	36	00144	00500
00024	RNCD	36	00216	00500
00036	RNCD	36	00288	00500
00048	RNCD	36	10000	00500
00060	RNCD	36	10075	00500
00072	RNCD	36	10150	00500
00084	RNCD	36	10225	00500
00096	RNCD	36	10300	00500
00108	RNCD	36	10375	00500
00120	RNCD	36	10450	00500
00132	RNCD	36	10525	00500
00144	RNCD	36	10600	00500
00156	RNCD	36	10675	00500
00168	RNCD	36	10750	00500
00180	RNCD	36	10825	00500
00192	RNCD	36	10900	00500
00204	RNCD	36	10975	00500
00216	RNCD	36	11050	00500
00228	RNCD	36	11125	00500
00240	NOP	41	00324	00000
00252	NOP	41	00324	00000
00264	NOP	41	00324	00000
00276	NOP	41	00324	00000
00288	NOP	41	00324	00000
00300	B	49	10000	00000
00312	WATY	39	00327	00100
00324	H	48	42594	15543
00336	H	48	00464	14953
00348		45	44040	4044

T0000	RNCD	360040200500
T0012	RNCD	360047700500
T0024	RNCD	360055200500
T0036	RNCD	360062700500
T0048	RNCD	360070200500
T0060	RNCD	360077700500
T0072	RNCD	360085200500
T0084	RNCD	360092700500
T0096	RNCD	360100200500
T0108	RNCD	360107700500
T0120	RNCD	360115200500
T0132	RNCD	360122700500
T0144	RNCD	360130200500
T0156	RNCD	360137700500
T0168	RNCD	360145200500
T0180	RNCD	360152700500
T0192	RNCD	360160200500
T0204	RNCD	360167700500
T0216	RNCD	360175200500
T0228	RNCD	360182700500
T0240	RNCD	360190200500
T0252	RNCD	360197700500
T0264	RNCD	360205200500
T0276	RNCD	360212700500
T0288	RNCD	360220200500
T0300	RNCD	360227700500
T0312	RNCD	360235200500
T0324	RNCD	360242700500
T0336	RNCD	360250200500
T0348	RNCD	360257700500
T0360	RNCD	360265200500
T0372	RNCD	360272700500
T0384	RNCD	360280200500
T0396	RNCD	360287700500
T0408	RNCD	360295200500
T0420	RNCD	360302700500
T0432	RNCD	360310200500
T0444	RNCD	360317700500
T0456	RNCD	360325200500
T0468	RNCD	360332700500
T0480	RNCD	360340200500
T0492	RNCD	360347700500
T0504	RNCD	360355200500
T0516	RNCD	360362700500
T0528	RNCD	360370200500
T0540	RNCD	360377700500
T0552	RNCD	360385200500
T0564	RNCD	360392700500
T0576	RNCD	360400200500
T0588	RNCD	360407700500
T0600	RNCD	360415200500
T0612	RNCD	360422700500
T0624	RNCD	360430200500
T0636	RNCD	360437700500
T0648	RNCD	360445200500
T0660	RNCD	360452700500

T0672	RNCD	360460200500
T0684	RNCD	360467700500
T0696	RNCD	360475200500
T0708	RNCD	360482700500
T0720	RNCD	360490200500
T0732	RNCD	360497700500
T0744	RNCD	360505200500
T0756	RNCD	360512700500
T0768	RNCD	360520200500
T0780	RNCD	360527700500
T0792	RNCD	360535200500
T0804	RNCD	360542700500
T0816	RNCD	360550200500
T0828	RNCD	360557700500
T0840	RNCD	360565200500
T0852	RNCD	360572700500
T0864	RNCD	360580200500
T0876	RNCD	360587700500
T0888	RNCD	360595200500
T0900	RNCD	360602700500
T0912	RNCD	360610200500
T0924	RNCD	360617700500
T0936	RNCD	360625200500
T0948	RNCD	360632700500
T0960	RNCD	360640200500
T0972	RNCD	360647700500
T0984	RNCD	360655200500
T0996	RNCD	360662700500
T1008	RNCD	360670200500
T1020	RNCD	360677700500
T1032	RNCD	360685200500
T1044	RNCD	360692700500
T1056	RNCD	360700200500
T1068	RNCD	360707700500
T1080	RNCD	360715200500
T1092	RNCD	360722700500
T1104	RNCD	360730200500
T1116	RNCD	360737700500
11128	RNCD	360745200500
11140	RNCD	360752700500
11152	BNR	450044018117
11164	B	490422000000
11176	H	480000000000

```

*          DT X01
*          1620-1 HEADER TEST
00440      DORG 440
00440 34 01184 00102  START RCTY T24.5
00452 16 00441 000M9    TFM *-11,49,10
00464 39 07363 00100    WATY HDR,,,      TEST WATY OPN BY TYPING TEST NAME
00476 34 00000 00102    RCTY

*
*          THIS SECTION TESTS THE PROGRAM SWITCH CIRCUITRY
*
*          THE FIRST TEST IS WITH ALL SWITCHES ON
00488 34 00000 00102    RCTY
00500 39 07049 00100    WATY VIM1,,,     TYPE INSTRUCTIONS TO TURN SWITCHES ON
00512 48 00000 00000    H      ,,,       HALT TO ALLOW SWITCH SETTING
00524 46 00560 00100    T10.0 BC1  **36,,,     TEST PROGRAM SWITCH 1
00536 34 00000 00102    RCTY
00548 39 04325 00100    WATY M10.0,,,    TYPE ERROR MESSAGE

*
*
00560 46 00596 00200    T11.0 BC2  **36,,,     TEST PROGRAM SWITCH 2
00572 34 00000 00102    RCTY
00584 39 04395 00100    WATY M11.0,,,    TYPE ERROR MESSAGE

*
*
00596 46 00632 00300    T12.0 BC3  **36,,,     TEST PROGRAM SWITCH 3
00608 34 00000 00102    RCTY
00620 39 04465 00100    WATY M12.0,,,    TYPE ERROR MESSAGE

*
*
00632 46 00668 00400    T13.0 BC4  **36,,,     TEST PROGRAM SWITCH 4
00644 34 00000 00102    RCTY
00656 39 04535 00100    WATY M13.0,,,    TYPE ERROR MESSAGE

*
*
*          THE NEXT SERIES TESTS THE DECODING CIRCUITS BY
*          HAVING AN ILLEGAL MODIFIER IN Q8
00668 46 00692 04100    T14.0 BI   **24,4100,, SHOULD NOT BRANCH WITH 4 IN Q8
00680 49 00716 00000    B     **36,,,
00692 34 00000 00102    RCTY
00704 39 04605 00100    WATY M14.0,,,    TYPE ERROR MESSAGE

*
*
00716 46 00740 04200    T15.0 BI   **24,4200,, SHOULD NOT BRANCH WITH 4 IN Q8
00728 49 00764 00000    B     **36,,,
00740 34 00000 00102    RCTY
00752 39 04691 00100    WATY M15.0,,,    TYPE ERROR MESSAGE

*
*
00764 46 00788 04300    T16.0 BI   **24,4300,, SHOULD NOT BRANCH WITH 4 IN Q8
00776 49 00812 00000    B     **36,,,
00788 34 00000 00102    RCTY
00800 39 04777 00100    WATY M16.0,,,    TYPE ERROR MESSAGE

*
*
00812 46 00836 04400    T17.0 BI   **24,4400,, SHGULD NOT BRANCH WITH 4 IN Q8
00824 49 00860 00000    B     **36,,,
00836 34 00000 00102    RCTY
00848 39 04863 00100    WATY M17.0,,,    TYPE ERROR MESSAGE

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0860 46 00884 00500
0872 49 00908 00000
0884 34 00000 00102
0896 39 04949 00100

* BI XXXXX 00500 TO TEST DECODERS
T18.0 BI **24,00500,, SHOULDNT BRANCH, NO IND 05
B **36,,,
RCTY
WATY M18.0,,, TYPE ERROR MESSAGE

0908 47 00932 00100
0920 49 00956 00000
0932 34 00000 00102
0944 39 05035 00100

* BNC1 WITH SWITCH 1 ON TO TEST BRANCH TEST TRIGGER
T19.0 BNC1 **24,,, SHOULD NOT BRANCH WITH SW1 ON
B **36,,,
RCTY
WATY M19.0,,, TYPE ERROR MESSAGE

0956 34 00000 00102
0968 39 07105 00100
0980 48 00000 00000

* THE NEXT TEST REQUIRES THE SWITCHES TO BE OFF
*
RCTY
WATY VM2,,, TYPE INSTRUCTIONS TO TURN ALL SWITCHES OF
H,,, HALT TO ALLOW SWITCH SETTING

0992 47 01028 00100
1004 34 00000 00102
1016 39 05111 00100

* T20.0 BNC1 **36,,, TEST BNC1 WITH PROG SW1 OFF
RCTY
WATY M20.0,,, TYPE ERROR MESSAGE

1028 47 01064 00200
1040 34 00000 00102
1052 39 05185 00100

* T21.0 BNC2 **36,,, TEST BNC2 WITH PROG SW2 OFF
RCTY
WATY M21.0,,, TYPE ERROR MESSAGE

1064 47 01100 00300
1076 34 00000 00102
1088 39 05259 00100

* T22.0 BNC3 **36,,, TEST BNC3 WITH PROG SW3 OFF
RCTY
WATY M22.0,,, TYPE ERROR MESSAGE

1100 47 01136 00400
1112 34 00000 00102
1124 39 05333 00100

* T23.0 BNC4 **36,,, TEST BNC4 WITH PROG SW4 OFF
RCTY
WATY M23.0,,, TYPE ERROR MESSAGE

1136 46 01160 00200
1148 49 01184 00000
1160 34 00000 00102
1172 39 05407 00100

* T24.0 BC2 **24,,, BC2 WITH SW2 OFF SHOULDNT BRANCH
B **36,,,
RCTY
WATY M24.0,,, TYPE ERROR MESSAGE

1184 41 01208 01500

* TEST NOP INSTRUCTION
T24.5 NOP **24,1500,, INST WILL BRANCH IF IT DECODES
AS A 47 OR 49

1196 49 01280 00000
1208 46 01280 00100
1220 46 01268 00300
1232 34 00000 00102
1244 39 05483 00100
1256 49 01280 00000
1268 48 00000 00000
1280 46 01184 00200

* B **84,,, OK
BC1 **72,,, BYPASS ERROR INDICATION IF SW1 ON
BC3 **48,,, HALT INSTEAD OF TYPEOUT IF SW3 ON
RCTY
WATY M24.5,,, TYPE ERROR MESSAGE
B **24
H,,, NOP INSTRUCTION BRANCHED
BC2 T24.5,,, LOOP IF SW2 ON

1292 41 01304 00000

* T24.6 NOP **12,0,, INST WILL MAR CHECK IF IT DECODES

01303 00001
 01304 47 01388 00800
 01316 46 01388 00100
 01328 46 01376 00300
 01340 34 00000 00102
 01352 39 05557 00100
 01364 49 01388 00000
 01376 48 00000 00000
 01388 46 01292 00200

AS A 43 OR 45
 DC 1,*,* RM IN Q11 OF NOP
 BNI **84,800,, SEE IF OPN MAR CHECKED
 BC1 **72,,, BYPASS ERROR INDICATION IF SW1 ON
 BC3 **48,,, HALT INSTEAD OF TYPEOUT IF SW3 ON
 RCTY
 WATY M24.6,,, TYPE ERROR MESSAGE
 B **24
 H,,, NOP SET MAR CHECK
 BC2 T24.6,,, LOOP IF SW2 ON

TEST BRANCH NO RECORD MARK OPERATION

01400 45 01424 04290
 01412 49 01496 00000
 01424 46 01496 00100
 01436 46 01484 00300
 01448 34 00000 00102
 01460 39 05635 00100
 01472 49 01496 00000
 01484 48 00000 00000
 01496 46 01400 00200

T25.0 BNR **24,R/M,,, TEST BNR WITH A R/M
 B **84,,, GOOD, BNR DIDNT BRANCH
 BC1 **72,,, SKIP ERROR INDICATION IF SW1 ON
 BC3 **48,,, HALT INSTEAD OF TYPEOUT IF SW3 ON
 RCTY
 WATY M25.0,,, TYPE ERROR MESSAGE
 B **24
 H,,, BNR BRANCHED ON A RECORD MARK
 BC2 T25.0,,, LOOP IF SW2 ON

01508 45 01592 04282
 01520 46 01592 00100
 01532 46 01580 00300
 01544 34 00000 00102
 01556 39 05703 00100
 01568 49 01592 00000
 01580 48 00000 00000
 01592 46 01508 00200

T26.0 BNR **84,ZERO+2,, TEST BNR ON DIGIT 2
 BC1 **72,,, SKIP ERROR INDICATION IF SW1 ON
 BC3 **48,,, HALT INSTEAD OF TYPEOUT IF SW3 ON
 RCTY
 WATY M26.0,,, TYPE ERROR MESSAGE
 B **24
 H,,, BNR OPN FAILED ON DIGIT 2
 BC2 T26.0,,, LOOP IF SW2 ON

01604 45 01688 04288
 01616 46 01688 00100
 01628 46 01676 00300
 01640 34 00000 00102
 01652 39 05767 00100
 01664 49 01688 00000
 01676 48 00000 00000
 01688 46 01604 00200

T27.0 BNR **84,ZERO+8,, TEST BNR ON DIGIT 8
 BC1 **72,,, BYPASS ERROR INDICATION IF SW1 ON
 BC3 **48,,, HALT INSTEAD OF TYPEOUT IF SW3 ON
 RCTY
 WATY M27.0,,, TYPE ERROR MESSAGE
 B **24
 H,,, BNR OPN FAILED ON DIGIT 8
 BC2 T27.0,,, LOOP IF SW2 ON

TEST BRANCH ON DIGIT OPERATION

01700 43 01784 04281
 01712 46 01784 00100
 01724 46 01772 00300
 01736 34 00000 00102
 01748 39 05831 00100
 01760 49 01784 00000
 01772 48 00000 00000
 01784 46 01700 00200

T28.0 BD **84,ZERO+1,, TEST BD OPN WITH DIGIT 1
 BC1 **72,,, BYPASS ERROR INDICATION IF SW1 ON
 BC3 **48,,, HALT INSTEAD OF TYPEOUT IF SW3 ON
 RCTY
 WATY M28.0,,, TYPE ERROR MESSAGE
 B **24
 H,,, BD OPN FAILED ON DIGIT 1
 BC2 T28.0,,, LOOP IF SW2 ON

01796 43 01880 04282
 01808 46 01880 00100

T29.0 BD **84,ZERO+2,, TEST BD OPN WITH DIGIT 2
 BC1 **72,,, BYPASS ERROR INDICATION IF SW1 ON

01820	46	01868	00300	BC3	**48,,,	HALT INSTEAD OF TYPEOUT IF SW3 ON	
01832	34	00000	00102	RCTY			
01844	39	05893	00100	WATY	M29.0,,,	TYPE ERROR MESSAGE	
01856	49	01880	00000	B	**24		
01868	48	00000	00000	H	,,,	BD OPN FAILED FAILED ON DIGIT 2	
01880	46	01796	00200	BC2	T29.0,,,	LOOP IF SW2 ON	
* *							
01892	43	01976	04284	T30.0	BD	**84,ZERO+4,,	TEST BD OPN WITH DIGIT 4
01904	46	01976	00100	BC1	**72,,,	BYPASS ERROR INDICATION IF SW1 ON	
01916	46	01964	00300	BC3	**48,,,	HALT INSTEAD OF TYPEOUT IF SW3 ON	
01928	34	00000	00102	RCTY			
01940	39	05955	00100	WATY	M30.0,,,	TYPE ERROR MESSAGE	
01952	49	01976	00000	B	**24		
01964	48	00000	00000	H	,,,	BD OPN FAILED ON DIGIT 4	
01976	46	01892	00200	BC2	T30.0,,,	LOOP IF SW2 ON	
* *							
01988	43	02072	04288	T31.0	BD	**84,ZERO+8,,	TEST BD OPN WITH DIGIT 8
02000	46	02072	00100	BC1	**72,,,	BYPASS ERROR INDICATION IF SW1 ON	
02012	46	02060	00300	BC3	**48,,,	HALT INSTEAD OF TYPEOUT IF SW3 ON	
02024	34	00000	00102	RCTY			
02036	39	06017	00100	WATY	M31.0,,,	TYPE ERROR MESSAGE	
02048	49	02072	00000	B	**24		
02060	48	00000	00000	H	,,,	BD OPN FAILED ON DIGIT 8	
02072	46	01988	00200	BC2	T31.0,,,	LOOP IF SW2 ON	
* *							
02084	43	02108	04280	T32.0	BD	**24,ZERO,,	TEST BD OPN ON DIGIT ZERO
02096	49	02180	00000	B	**84,,,		
02108	46	02180	00100	BC1	**72,,,	BYPASS ERROR INDICATION IF SW1 ON	
02120	46	02168	00300	BC3	**48,,,	HALT INSTEAD OF TYPEOUT IF SW3 ON	
02132	34	00000	00102	RCTY			
02144	39	06079	00100	WATY	M32.0,,,	TYPE ERROR MESSAGE	
02156	49	02180	00000	B	**24		
02168	48	00000	00000	H	,,,	BD OPN FAILED ON DIGIT ZERO	
02180	46	02084	00200	BC2	T32.0,,,	LOOP IF SW2 ON	
* *							
TEST BRANCH NO FLAG OPERATION							
02192	44	02276	04281	T33.0	BNF	**84,ZERO+1,,	TEST BNF ON UNFLAGGED DIGIT
02204	46	02276	00100	BC1	**72,,,	BYPASS ERROR INDICATION IF SW1 ON	
02216	46	02264	00300	BC3	**48,,,	HALT INSTEAD OF TYPEOUT IF SW3 ON	
02228	34	00000	00102	RCTY			
02240	39	06141	00100	WATY	M33.0,,,	TYPE ERROR MESSAGE	
02252	49	02276	00000	B	**24		
02264	48	00000	00000	H	,,,	BNF OPN FAILED ON UNFLAGGED DIGIT	
02276	46	02192	00200	BC2	T33.0,,,	LOOP IF SWITCH 2 ON	
* *							
02288	44	02312	04280	T34.0	BNF	**24,ZERO,,	TEST BNF ON A FLAGGED ZERO
02300	49	02384	00000	B	**84		
02312	46	02384	00100	BC1	**72,,,	BYPASS ERROR INDICATION IF SW1 ON	
02324	46	02372	00300	BC3	**48,,,	HALT INSTEAD OF TYPEOUT IF SW3 ON	
02336	34	00000	00102	RCTY			
02348	39	06215	00100	WATY	M34.0,,,	TYPE ERROR MESSAGE	
02360	49	02384	00000	B	**24		
02372	48	00000	00000	H	,,,	BNF FAILED ON A FLAGGED ZERO	

*
*
* TEST TRANSMIT DIGIT/TRANSMIT DIGIT IMMEDIATE
*

02384 15 04320 0000P
02396 44 02420 04320
02408 43 02492 04320
02420 46 02492 00100
02432 46 02480 00300
02444 34 00000 00102
02456 39 06287 00100
02468 49 02492 00000
02480 48 00000 00000
02492 46 02384 00200

T35.0 TDM WRK-2,7,11, TEST TDM OPN WITH FLAG 7
BNF **24,WRK-2,, CHECK FOR FLAG
BD **84,WRK-2,, CHECK FOR DIGIT
BC1 **72,,, BYPASS ERROR INDICATION IF SW1 0
BC3 **48,,, HALT INSTEAD OF TYPEOUT IF SW3 ON
RCTY
WATY M35.0,,, TYPE ERROR MESSAGE
B **24
H,,, TDM OPN FAILED ON A FLAG 7
BC2 T35.0,,, LOOP IF SW2 ON

02504 15 04320 00000
02516 43 02540 04320
02528 44 02612 04320
02540 46 02612 00100
02552 46 02600 00300
02564 34 00000 00102
02576 39 06361 00100
02588 49 02612 00000
02600 48 00000 00000
02612 46 02504 00200

T36.0 TDM WRK-2,0,, TEST TDM OPN WITH A ZERO
BD **24,WRK-2,, SEE IF DIGIT CLEARED
BNF **84,WRK-2,, SEE IF FLAG CLEARED
BC1 **72,,, BYPASS ERROR INDICATION IF SW1 ON
BC3 **48,,, HALT INSTEAD OF TYPEOUT IF SW3 ON
RCTY
WATY M36.0
B **24
H,,, TDM OPN FAILED ON A ZERO
BC2 T36.0,,, LOOP IF SW2 ON

02624 25 04320 04301
02636 44 02660 04320
02648 43 02732 04320
02660 46 02732 00100
02672 46 02720 00300
02684 34 00000 00102
02696 39 06433 00100
02708 49 02732 00000
02720 48 00000 00000
02732 46 02624 00200

T37.0 TD WRK-2,FLD2-1,, TEST TD OPN ON A FLAG 8
BNF **24,WRK-2,, SEE IF FLAG GOT THERE
BD **84,WRK-2,, SEE IF DIGIT GOT THERE
BC1 **72,,, BYPASS ERROR INDICATION IF SW1 ON
BC3 **48,,, HALT INSTEAD OF TYPEOUT IF SW3 ON
RCTY
WATY M37.0,,, TYPE ERROR MESSAGE
B **24
H,,, TD OPN FAILED ON A FLAG 8
BC2 T37.0,,, LOOP IF SW2 ON

02744 25 04320 04300
02756 43 02780 04320
02768 44 02852 04320
02780 46 02852 00100
02792 46 02840 00300
02804 34 00000 00102
02816 39 06505 00100
02828 49 02852 00000
02840 48 00000 00000
02852 46 02744 00200

T38.0 TD WRK-2,FLD2-2,, TEST TD OPN WITH A ZERO
BD **24,WRK-2,, SEE IF DIGIT CLEARED
BNF **84,WRK-2,, SEE IF FLAG CLEARED
BC1 **72,,, BYPASS ERROR INDICATION IF SW1 ON
BC3 **48,,, HALT INSTEAD OF TYPEOUT IF SW3 ON
RCTY
WATY M38.0,,, TYPE ERROR MESSAGE
B **24
H,,, TD OPN FAILED ON A ZERO
BC2 T38.0,,, LOOP IF SW2 ON

*
*
* TEST SET FLAG/CLEAR FLAG OPERATION
*

02864 15 04322 00000
02876 32 04322 00000
02888 44 02912 04322
02900 49 02984 00000
02912 46 02984 00100
02924 46 02972 00300

T39.0 TDM WRK,0,, CLEAR ONE LOCATION FOR SF TEST
SF WRK,,, TEST SET FLAG OPN
BNF **24,WRK,, SEE IF FLAG WAS SET
B **84
BC1 **72,,, BYPASS ERROR INDICATION IF SW1 ON
BC3 **48,,, HALT INSTEAD OF TYPEOUT IF SW3 ON

02936 34 00000 00102
 02948 39 06575 00100
 02960 49 02984 00000
 02972 48 00000 00000
 02984 46 02864 00200

RCTY
 WATY M39.0,,, TYPE ERROR MESSAGE
 B **24
 H ,,, SET FLAG FAILED
 BC2 T39.0,,, LOOP IF SW2 ON

02996 15 04322 0000P
 03008 33 04322 00000
 03020 44 03104 04322
 03032 46 03104 00100
 03044 46 03092 00300
 03056 34 00000 00102
 03068 39 06631 00100
 03080 49 03104 00000
 03092 48 00000 00000
 03104 46 02996 00200

*
 *
 T40.0 TDM WRK,7,11, SET A FLAG FOR CF TEST
 CF WRK,,, TEST CLEAR FLAG
 BNF **84,WRK,, SEE IF FLAG CLEARED
 BC1 **72,,, BYPASS ERROR INDICATION IF SW1 ON
 BC3 **48,,, HALT INSTEAD OF TYPEOUT IF SW3 ON
 RCTY
 WATY M40.0,,, TYPE ERROR MESSAGE
 B **24
 H ,,, CLEAR FLAG FAILED
 BC2 T40.0,,, LOOP IF SW2 ON

*
 *
 * TEST TRANSMIT FIELD IMMEDIATE OPERATION
 * TF **11,0,, TRANSMIT A FIELD TO ITSELF TO SEE
 * IF TFM WILL END OPERATION

03116 15 04322 00000
 03128 15 04321 00000
 03140 16 04322 000Q7
 03152 44 03176 04321
 03164 43 03248 04322
 03176 46 03248 00100
 03188 46 03236 00300
 03200 34 00000 00102
 03212 39 06691 00100
 03224 49 03248 00000
 03236 48 00000 00000
 03248 46 03116 00200

*
 *
 T41.0 TDM WRK,0,, CLEAR TWO SLOTS FOR TFM TEST
 TDM WRK-1,0
 TFM WRK,87,10, CHECK TFM OPN WITH -87
 BNF **24,WRK-1,, TEST HI ORDER POS FOR FLAG
 BD **84,WRK,, TEST LO ORDER POS FOR DIGIT
 BC1 **72,,, BYPASS ERROR INDICATION IF SW1 ON
 BC3 **48,,, HALT INSTEAD OF TYPEOUT IF SW3 ON
 RCTY
 WATY M41.0,,, TYPE ERROR MESSAGE
 B **24
 H ,,, TFM OF -87 FAILED
 BC2 T41.0,,, LOOP IF SW2 OPN

03260 15 04322 00000
 03272 15 04317 00000
 03284 26 04322 04296
 03296 45 03320 04322
 03308 43 03392 04317
 03320 46 03392 00100
 03332 46 03380 00300
 03344 34 00000 00102
 03356 39 06745 00100
 03368 49 03392 00000
 03380 48 00000 00000
 03392 46 03260 00200

*
 *
 T42.0 TDM WRK,0,, CLEAR HI AND LO POSITIONS FOR TF TEST
 TDM WRK-5,0
 TF WRK,FLD1,, TEST TF OPN WITH 19375 RM
 BNR **24,WRK,, CHECK LO ORDER FOR RM
 BD **84,WRK-5,, CHECK HI ORDER FOR DIGIT
 BC1 **72,,, BYPASS ERROR INDICATION IF SW1 ON
 BC3 **48,,, HALT INSTEAD OF TYPEOUT IF SW3 ON
 RCTY
 WATY M42.0,,, TYPE ERROR MESSAGE
 B **24
 H ,,, TF OPN FAILED ON 19375 RM
 BC2 T42.0,,, LOOP IF SW2 ON

*
 *
 * TEST TRANSMIT RECORD OPERATION
 *

03404 31 04280 04280
 03416 26 04322 04312
 03428 31 04317 04297
 03440 45 03476 04322
 03452 44 03476 04321
 03464 43 03548 04317

*
 *
 T43.0 TR ZERO,ZERO,, TRANSMIT A RECORD TO ITSELF TO
 SEE IF TR WILL END OPERATION.
 TF WRK,ZEROS,, CLEAR WORK AREA FOR TR TEST
 TR WRK-5,FLD2-5,, TEST TR OPN WITH -64208 RM
 BNR **36,WRK,, TEST FOR RECORD MARK
 BNF **24,WRK-1,, TEST FOR LO ORDER FLAG
 BD **84,WRK-5,, TEST FOR HI ORDER DIGIT

03476 46 03548 00100
 03488 46 03536 00300
 03500 34 00000 00102
 03512 39 06797 00100
 03524 49 03548 00000
 03536 48 00000 00000
 03548 46 03416 00200

BC1 **72,,, BYPASS ERROR INDICATION IF SW1 ON
 BC3 **48,,, HALT INSTEAD OF TYPEOUT IF SW3 ON
 RCTY
 WATY M43.0,,, TYPE ERROR MESSAGE
 B **24
 H ,,, TR OPN FAILED ON -64208 RM
 BC2 T43.0,,, LOOP IF SW2 ON

*
 *
 *
 *

MAKE A SIMPLE TEST OF BTM OPN

03560 26 03703 04312
 03572 17 03704 Q768P
 03584 43 03668 03695
 03596 46 03668 00100
 03608 46 03656 00300
 03620 34 00000 00102
 03632 39 06849 00100
 03644 49 03668 00000
 03656 48 00000 00000
 03668 46 03560 00200
 03680 49 03752 00000

T44.0 TF NP+11,ZEROS,, CLEAR TEST AREA FOR BTM TEST
 BTM NP+12,87687,711, TEST BTM WITH -87687
 BD **84,NP+3,, TEST DIGIT PUT IN BY SUBROUTINE
 BC1 **72,,, BYPASS ERROR INDICATION IF SW1 ON
 BC3 **48,,, HALT INSTEAD OF TYPEOUT IF SW3 ON
 RCTY
 WATY M44.0,,, TYPE ERROR MESSAGE
 B **24
 H ,,, BTM OPN FAILED ON -87687
 BC2 T44.0,,, LOOP IF SW2 ON
 B CDC,,, GO TO NEXT TEST

*
 *

BTM WILL BRANCH TO THIS ROUTINE

03692 41 00000 00000
 03704 44 03596 03703
 03716 44 03596 03699
 03728 15 03695 00009
 03740 42 00000 00000

NP NOP ,,, DATA FROM BTM LANDS IN Q7-11
 BNF T44.0+36,NP+11,, TEST FOR LO ORDER FLAG
 BNF T44.0+36,NP+7,, TEST FOR HI ORDER FLAG
 TDM NP+3,9,, PUT 9 IN P2 OF NOP INST
 BB ,,, RETURN

*
 *
 *
 *
 *

THE FOLLOWING ROUTINE TESTS THE OPERATION
 OF THE SAVE, INSERT, AND THE RELEASE CONTROLS.
 IT IS ONLY TESTED ON THE FIRST PASS THROUGH.

03752 41 03932 00000
 03764 16 03753 000M9

CDC NOP T46.0,,, WILL BE REPLACED BY BRANCH TO T46.0
 TFM *-11,49,10, SET UP TO BYPASS THIS ROUTINE
 ON SECOND TIME AROUND

03776 16 00002 00-00
 03788 34 00000 00102
 03800 39 07163 00100
 03812 48 00000 00000
 03824 45 03848 00002
 03836 43 03920 00000
 03848 46 03920 00100
 03860 46 03908 00300
 03872 34 00000 00102
 03884 39 06903 00100
 03896 49 03920 00000
 03908 48 00000 00000
 03920 46 03776 00200

T45.0 TFM 2,0,9, SET LOC 0,1,AND 2 TO 000
 RCTY
 WATY NST,,, TYPE OUT INSTRUCTIONS
 H ,,, HALT FOR MANUAL OPERATION
 BNR **24,2,, TEST FOR RECORD MARK IN LOC 2
 BD **84,0,, TEST FOR 4 IN LOC 0
 BC1 **72,,, SKIP ERROR INDICATION IF SW1 ON
 BC3 **48,,, HALT INSTEAD OF TYPEOUT IF SW3 ON
 RCTY
 WATY M45.0,,, TYPE ERROR MESSAGE
 B **24
 H ,,, SAVE OR INSERT FAILED
 BC2 T45.0,,, LOOP IF SW2 ON

*
 *

03932 46 03944 00600
 03944 46 03956 00700
 03956 46 03968 00800
 03968 46 03980 01600
 03980 46 03992 01700
 03992 46 04004 02100

T46.0 BI **12,600,, RESET ALL DATA CHECK INDICATORS
 BI **12,700,,
 BI **12,800,,
 BI **12,1600,, RESET MBRE
 BI **12,1700,, RESET MBRO
 BI **12,2100,,

04004 46 04016 02200
 04016 46 04028 02300
 04028 46 04040 03600
 04040 46 04052 03700
 04052 46 04064 03800

BI **12,2200,,
 BI **12,2300,,
 BI **12,3600,,
 BI **12,3700,,
 BI **12,3800,,

04064 47 04148 01900
 04076 46 04148 00100
 04088 46 04136 00300
 04100 34 00000 00102
 04112 39 06983 00100
 04124 49 04148 00000
 04136 48 00000 00000
 04148 46 03932 00200

BNA **84,, ANY DATA CHECK SHOULD BE OFF
 BC1 **72
 BC3 **48
 RCTY
 WATY M46.0,, TYPE ERROR MESSAGE
 B **24
 H ,,, COULDNT RESET ANY DATA CHECK
 BC2 T46.0,, LOOP IF SW2 ON

04160 34 04208 00102
 04172 39 07259 00100
 04184 16 04161 000M9
 04196 48 00000 00000
 04208 46 01184 00400
 04220 36 00000 00500
 04232 36 00072 00500
 04244 36 00201 00500
 04256 45 00024 00209
 04268 49 00012 00000

RCTY **48
 WATY TU
 TFM *-23,49,10, REPLACE NOP WITH BRANCH
 H
 MH BC4 T24.5,, REPEAT PROGRAM IF SW4 ON
 RNCB ,,, READ FIRST LOAD CARD
 RNCB 72,, READ SECOND LOAD CARD
 RNCB 201,, READ FIRST PROGRAM CARD
 BNR 24,209,, NOT DTXXX, PROCESS THIS CARD
 B 12,, DTXXX, IGNORE FIRST CARD

04280 00001
 04281 00009
 04290 00001
 04296 00006
 04302 00006
 04312 00010
 04322 00010

CONSTANTS USED IN TEST

ZERO DC 1,0
 DSC 9,123456789
 R/M DC 1,
 FLD1 DC 6,19375
 FLD2 DC 6,-64208
 ZEROS DC 10,0
 WRK DC -10,0,, TEN DIGIT WORK AREA

ERROR MESSAGES FOR HEADER TEST

04325 00035 M10.0 DAC 35,TEST T10.0, BC1 FAILED WITH SW1 ON
 04395 00035 M11.0 DAC 35,TEST T11.0, BC2 FAILED WITH SW2 ON
 04465 00035 M12.0 DAC 35,TEST T12.0, BC3 FAILED WITH SW3 ON
 04535 00035 M13.0 DAC 35,TEST T13.0, BC4 FAILED WITH SW4 ON
 04605 00043 M14.0 DAC 43,TEST T14.0, BI P,4100 BRANCHED ERRONEOUSLY
 04691 00043 M15.0 DAC 43,TEST T15.0, BI P,4200 BRANCHED ERRONEOUSLY
 04777 00043 M16.0 DAC 43,TEST T16.0, BI P,4300 BRANCHED ERRONEOUSLY
 04863 00043 M17.0 DAC 43,TEST T17.0, BI P,4400 BRANCHED ERRONEOUSLY
 04949 00043 M18.0 DAC 43,TEST T18.0, BI P,0500 BRANCHED ERRONEOUSLY
 05035 00038 M19.0 DAC 38,TEST T19.0, BNC1 BRANCHED WITH SW1 ON
 05111 00037 M20.0 DAC 37,TEST T20.0, BNC1 FAILED WITH SW1 OFF
 05185 00037 M21.0 DAC 37,TEST T21.0, BNC2 FAILED WITH SW2 OFF
 05259 00037 M22.0 DAC 37,TEST T22.0, BNC3 FAILED WITH SW3 OFF
 05333 00037 M23.0 DAC 37,TEST T23.0, BNC4 FAILED WITH SW4 OFF
 05407 00038 M24.0 DAC 38,TEST T24.0, BC2 BRANCHED WITH SW2 OFF
 05483 00037 M24.5 DAC 37,TEST T24.5, NOP INSTRUCTION BRANCHED
 05557 00039 M24.6 DAC 39,TEST T24.6, NOP INSTRUCTION SET MAR CK
 05635 00034 M25.0 DAC 34,TEST T25.0, BNR BRANCHED ON A R/M
 05703 00032 M26.0 DAC 32,TEST T26.0, BNR OPN FAILED ON 2
 05767 00032 M27.0 DAC 32,TEST T27.0, BNR OPN FAILED ON 8

05831	00031	M28.0	DAC	31,TEST	T28.0, BD OPN FAILED ON 1°
05893	00031	M29.0	DAC	31,TEST	T29.0, BD OPN FAILED ON 2°
05955	00031	M30.0	DAC	31,TEST	T30.0, BD OPN FAILED ON 4°
06017	00031	M31.0	DAC	31,TEST	T31.0, BD OPN FAILED ON 8°
06079	00031	M32.0	DAC	31,TEST	T32.0, BD OPN FAILED ON 0°
06141	00037	M33.0	DAC	37,TEST	T33.0, BNF OPN FAILS ON NO FLAG°
06215	00036	M34.0	DAC	36,TEST	T34.0, BNF OPN FAILS UN A FLAG°
06287	00037	M35.0	DAC	37,TEST	T35.0, TDM OPN FAILS UN A FLAG7°
06361	00036	M36.0	DAC	36,TEST	T36.0, TDM OPN FAILS UN A ZERO°
06433	00036	M37.0	DAC	36,TEST	T37.0, TD OPN FAILS ON A FLAG8°
06505	00035	M38.0	DAC	35,TEST	T38.0, TD OPN FAILS ON A ZERO°
06575	00028	M39.0	DAC	28,TEST	T39.0, SET FLAG FAILED°
06631	00030	M40.0	DAC	30,TEST	T40.0, CLEAR FLAG FAILED°
06691	00027	M41.0	DAC	27,TEST	T41.0, TFM OPN FAILED°
06745	00026	M42.0	DAC	26,TEST	T42.0, TF OPN FAILED°
06797	00026	M43.0	DAC	26,TEST	T43.0, TR OPN FAILED°
06849	00027	M44.0	DAC	27,TEST	T44.0, BTM OPN FAILED°
06903	00040	M45.0	DAC	40,TEST	T45.0, SAVE OR INSERT OPN NOT DONE°
06983	00033	M46.0	DAC	33,T46.0,	CANT RESET ANY DATA CHECK°
		*		MESSAGES FOR CONSOLE SWITCH TEST	
07049	00028	VIM1	DAC	28,SET	ALL PROGRAM SWITCHES ON°
07105	00029	VIM2	DAC	29,SET	ALL PROGRAM SWITCHES OFF°
		*		INSTRUCTIONS FOR SAVE TEST	
07163	00027	NST	DAC	27,PRESS	SAVE,INSERT,KEY IN 42,
07216	00002		DSC	2,22	
07219	00020		DAC	20,,RELEASE	AND START.°
07259	00029	TU	DAC	29,HEADER	TEST COMPLETE. SET SW4,
07317	00023		DAC	23, AS	DESIRED AND START.°
07363	00025	HDR	DAC	25,DTX01,	1620-1 HEADER TEST°
07413	00039		DAC	39,RM	DIUNT DISCONNECT TW,GARBAGE FOLLOWS°
00440			DEND	START	

DT X01 80/80 LIST

360007200500360014400500360021600500360028800500361000000500361007500500 -0000
361015000500361022500500361030000500361037500500361045000500361052500500 -0001
361060000500361067500500361075000500361082500500361090000500361097500500 -0002
361105000500361112500500410032400000410032400000410032400000410032400000 -0003
41003240000049100000000039003270010048425941554348004641495345440+0+0+## -0004
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200500L60137700500L60145200500L60152700500L60160200500L60167700500L60175200-0007
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