

9CNPA
CONSECUTIVE NUMBER PUNCH TEST
SPECIAL FEATURE - E.C. 290525C

A. UNIT TESTED

1. PURPOSE OF TEST

THE TEST WILL TEST ALL CONDITIONS OF THE CONSECUTIVE NUMBERING PUNCH DEVICE.

2. METHOD OF TEST

- A. 150 CARDS ARE PUNCHED - ALL PUNCHES COLUMNS 1-72 AND NUMBERED CONSECUTIVELY IN COLUMNS 77-80
- B. A DESIRED NUMBER IS SET INTO THE COUNTER, AND 10 CARDS ARE PUNCHED AND NUMBERED CONSECUTIVELY.
- C. THE COUNTER IS RESET FROM THE CALCULATOR, AND 10 CONSECUTIVE CARDS ARE PUNCHED.

B. AREA OF MACHINE REQUIRED

- 1. MF, CF, PU
- 2. STORAGE LOCATION

0030 - 143	9CNPA
1000 - 1030	CARD IMAGE FROM SELECTED NUMBER
1031 - 1410	10 CARD IMAGES-ALL ONES

C. PROGRAM CONTROL

- 1. DECK
 - 000 9LD01 LOW BINARY LOADER
 - 001-004 9CNPA
 - 005 TRANSFER CARD - TRA 30
 - 006-007 BLANK CARDS

2. SENSE SWITCH CONTROL

- A. SWITCHES 1 THRU 4 NO EFFECT
- B. SWITCH #5 UP - 20 MS. DELAY ON SET AND RESET COUNTERS
- C. SWITCH #5 DN - BYPASS 20 MS. DELAY
- D. SWITCH #6 UP - READ NEXT DIAGNOSTIC
- E. SWITCH #6 DN - RETURN TO HALT TO ENK

D. NORMAL STOPS

0037 - TO ENTER KEYS WITH ANY NUMBER FROM 00000 TO 23477

E. ERROR STOPS

NONE - VISUAL INSPECTION FOR ERRORS.

F. PRINT OUTS.

NONE

G. PUNCH CONTROL PANEL WIRING

1. REMOVE THE FOLLOWING JUMPERS

CALC EXIT 32 TO PUNCH MAGNET 33
CALC EXIT 33 TO PUNCH MAGNET 34
CALC EXIT 34 TO PUNCH MAGNET 35
CALC EXIT 35 TO PUNCH MAGNET 36

2. ADD THE FOLLOWING JUMPERS

RUN IN TO RESET
RESET TO SENSE 2
SENSE 1 TO SET CTR.
SET CTR. TO SEL. PICK UP 1
1000 ENTRY TO SEL. X1 T
100 ENTRY TO SEL. X2 T
10 ENTRY TO SEL. X3 T
1 ENTRY TO SEL. X4 T
CALC EXIT 32 TO SEL. X1 C
CALC EXIT 33 TO SEL. X2 C
CALC EXIT 34 TO SEL. X3 C
CALC EXIT 35 TO SEL. X4 C
PUNCH MAGNET 33 TO SEL. X1 M
PUNCH MAGNET 34 TO SEL. X2 M
PUNCH MAGNET 35 TO SEL. X3 M
PUNCH MAGNET 36 TO SEL. X4 M
1000 EXIT TO PUNCH MAGNET 77
100 EXIT TO PUNCH MAGNET 78
10 EXIT TO PUNCH MAGNET 79
1 EXIT TO PUNCH MAGNET 80

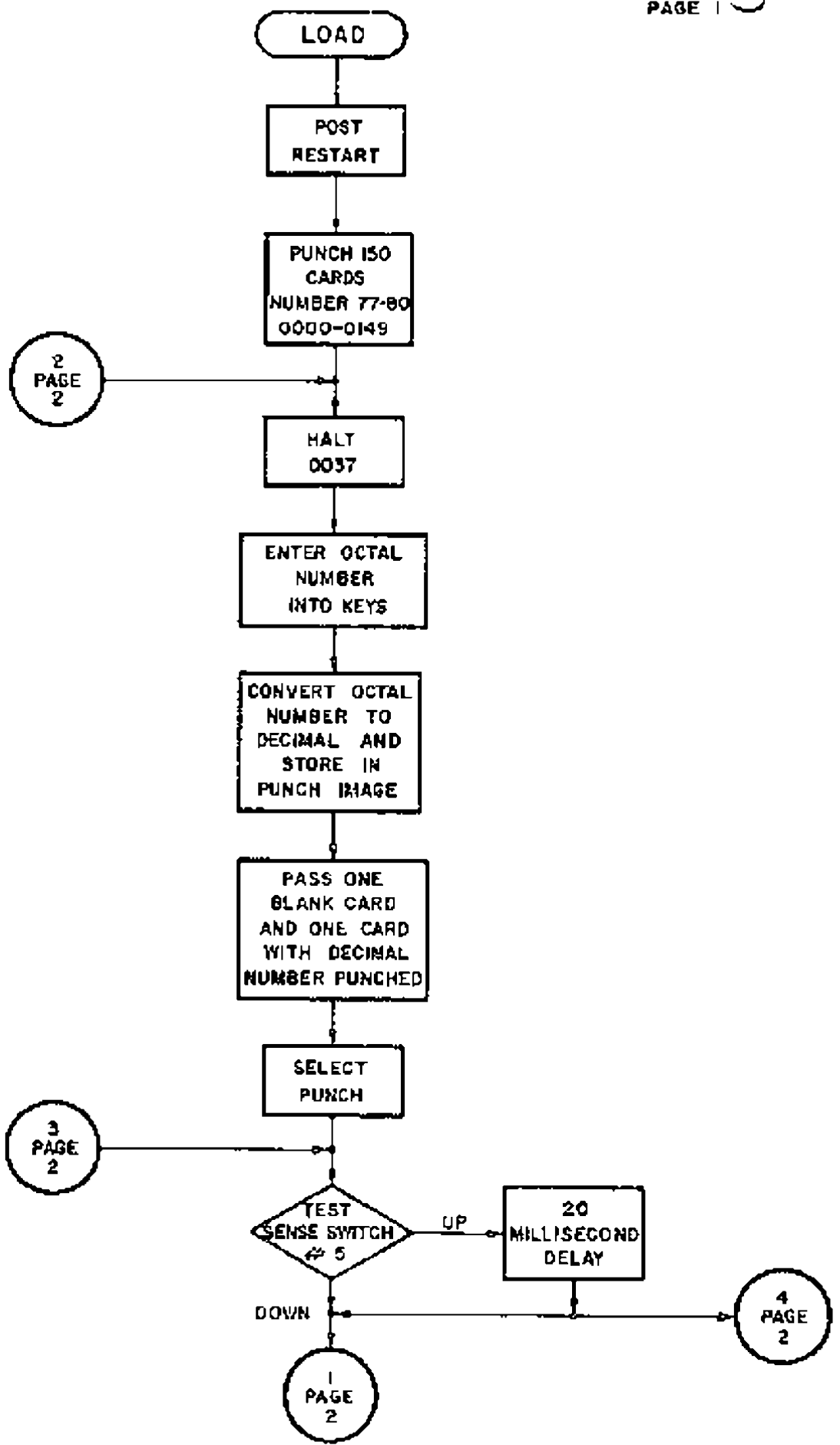
H. COMMENTS

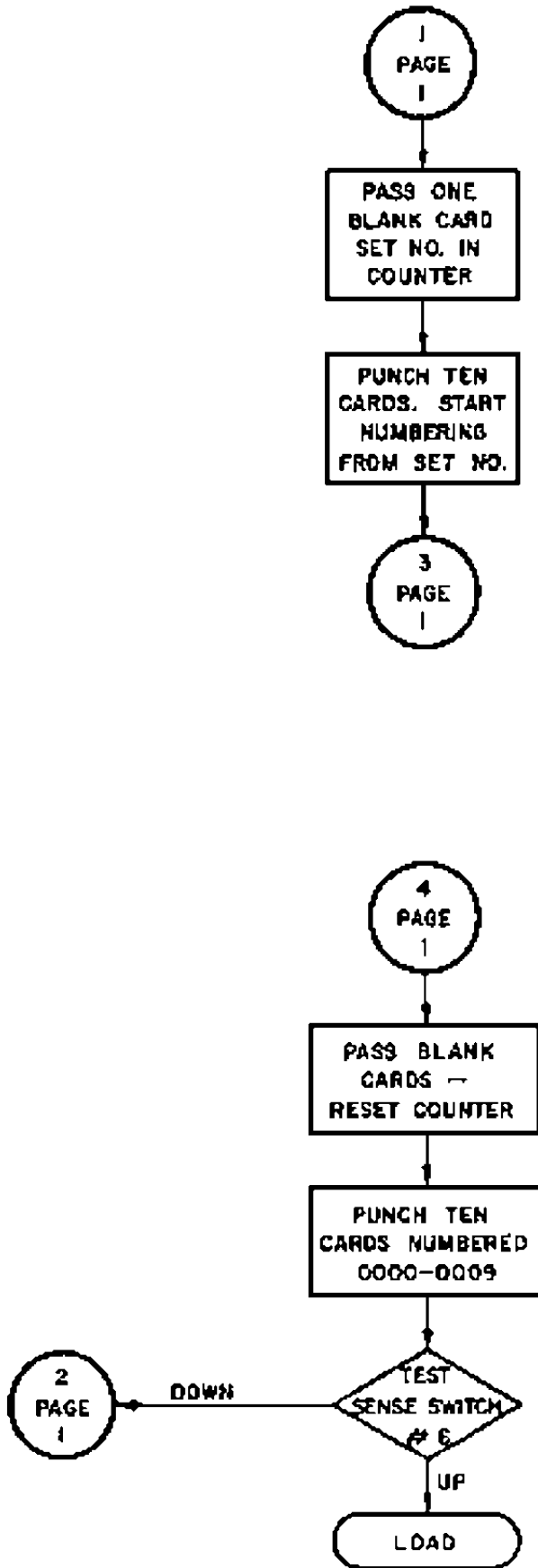
1. BEFORE STARTING TEST, CLEAR PUNCH AND SET STACK OF CARDS IN HOPPER. THIS SHOULD RESET THE COUNTER WHEN THE CARDS ARE RUN INTO THE PUNCHING STATION.
2. THE COUNTER IS TESTED BY RE-SELECTING THE PUNCH AT EVERY END OF RECORD. AND ALSO BY USING A LARGE WORD COUNT AND ONE SELECT.
3. UPON COMPLETION OF THE TEST. THE FOLLOWING SHOULD HAVE BEEN PUNCHED.

A. CARDS 1-150 SHOULD BE PUNCHED IN EVERY POSITION 1-72. AND

CONSECUTIVELY NUMBERED 0000-0150 IN COLUMNS 77-80

- B. CARD 151 AND 152 SHOULD BE BLANK.
 - C. CARDS 153-162 SHOULD BE PUNCHED IN EVERY POSITION 1-72. AND SHOULD BE NUMBERED CONSECUTIVELY IN COLUMNS 77-80. STARTING WITH THE DECIMAL EQUIVALENT OF THE NUMBER ENTERED INTO THE KEYS.
 - D. CARD 163 SHOULD BE BLANK.
 - E. CARDS 164-173 SHOULD BE PUNCHED IN EVERY POSITION 1-72. AND NUMBERED CONSECUTIVELY FROM 0000-0009 IN COLUMN 77-80.
4. WITH SWITCH \$6 DOWN THE PROGRAM WILL REPEAT THE COMPLETE TEST EXCEPT FOR THE FIRST 150 CARDS.





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*CONSECUTIVE NUMBERING PUNCH TEST

			00030		ORG 24	
00030	0500	00	0	00131	CLA REST	POST RESTART
00031	0601	00	0	00000	STO 0	
00032	0774	00	1	07017	AXT 3599,1	
00033	0766	00	0	01341	WPU WPUA	PUNCH 150 CARDS ALL
00034	0540	00	0	00132	RCHA PCNT	PUNCHES CONSECUTIVE
00035	0544	00	0	00133	LCHA PCNT+1	NUMBERING
00036	2	00001	1	00035	TIX *-1,1,1	REPEAT FOR 150 CARDS
00037	0000	00	0	00040	HTR *+1	ENTER INTO KEYS ANY OCTALNUMBER FROM 00000 TO 23417 AND PRESS START
00040	0760	00	0	00004	ENK	ENTER INTO MQ
00041	0774	00	1	00030	START AXT 24,1	
00042	0600	00	1	01030	STZ IMAGE+24,1	CLEAR IMAGE
00043	2	00001	1	00042	TIX *-1,1,1	AREA
00044	-0600	00	0	00134	STQ SAVE	
00045	0500	00	0	00134	DEC CLA SAVE	BINARY TO DECIMAL
00046	0100	00	0	00063	TZE RESET	CONVERTER TO SET CARD
00047	0131	00	0	00000	XCA	IMAGE OF NUMBER TO BE PUNCHED
00050	-0754	00	0	00000	PXD	CLEAR ACC.
00051	0221	00	0	00135	DVP TEN	L 12
00052	-0600	00	0	00134	STQ SAVE	
00053	0767	00	0	00001	ALS 1	
00054	0402	00	0	00141	SUB CONST	L 1022
00055	0621	00	0	00057	STA *+2	
00056	0500	00	0	00137	CLA ONE	L 1
00057	-0602	00	0	00000	ORS 0	NUMBER ENTERED INTO
00060	0767	00	0	00001	ALS 1	KEYS IS CONVERTED
00061	0601	00	0	00137	STO ONE	FROM OCTAL TO DECIMAL
00062	0020	00	0	00045	TRA DEC	
00063	0500	00	0	00140	RESET CLA CNTR	L 1 - RESTORE
00064	0601	00	0	00137	STO ONE	COUNTER
00065	0766	00	0	01341	WPU1 WPUA	PASS 1 BLANK CARD
00066	0760	00	0	01342	SPUA 2	RESET COUNTER
00067	0766	00	0	01341	WPU2 WPUA	
00070	0760	00	0	00165	SWT 5	
00071	0074	00	4	00126	TSX DELAY,4	IF UP GO TO DELAY ROUTINE
00072	0760	00	0	01341	SPUA 1	
00073	0540	00	0	00142	RCHA PCNT1	PUNCH CARD FROM SYMBOLIC LOCATION-IMAGE
00074	0774	00	2	00012	AXT 10,2	LOAD TO PUNCH 10 CARDS

00075	0774	00	1	00026		AXT 22,1	LOAD TO PUNCH 1 CARD
00076	0766	00	0	01341	WPU4	WPUA	PUNCH 10 CARDS-ALL PUNCHES SHOULD NUMBER FROM N-N+10
00077	0540	00	0	00132		RCHA PCNT	S TRG ON WC-1
00100	0544	00	0	00133		LCHA PCNT+1	S AND 1 TRGS ON WC-1
00101	2	00001	1	00100		TIX *-1,1,1	REPEAT FOR ONE CARD
00102	2	00001	2	00075		TIX WPU4-1,2,1	REPEAT FOR 10 CARDS WILL RE-SELECT AT EOR
00103	0766	00	0	01341		WPUA	SELECT PUNCH
00104	0760	00	0	00165		SWT 5	CHECK SW5 FOR DELAY
00105	0074	00	4	00126		TSX DELAY,4	
00106	0760	00	0	01342		SPUA 2	NO PASS BLANK CARD
00107	0774	00	1	00360		AXT 240,1	
00110	0500	00	0	00136		CLA D	
00111	0601	00	1	01410		STO IMAGE+264,1	SET 10 CARD IMAGES
00112	2	00001	1	00111		TIX *-1,1,1	TO ALL ONES
00113	0766	00	0	01341	WPU3	WPUA	
00114	0540	00	0	00143		RCHA PCNT2	PUNCH 10 CARDS-ALL PUNCHES
00115	0060	00	0	00115		TCOA *	WAIT FOR ALL CARDS
00116	0760	00	0	00166		SWT 6	TEST FOR NEXT PROGRAM
00117	0020	00	0	00121		TRA *+2	UP-READ
00120	0020	00	0	00037		TRA START-2	DOWN-REPEAT TEST
00121	0762	00	0	01321		RCDA	READ
00122	0540	00	0	00125		RCHA *+3	NEXT
00123	0544	00	0	00000		LCHA 0	PROGRAM
00124	0020	00	0	00001		TRA 1	
00125	-1	00003	0	00000		IOCT 0,0,3	
00126	0774	00	1	01501	DELAY	AXT 833,1	20 MILLISECOND
00127	2	00001	1	00127		TIX *,1,1	DELAY
00130	0020	00	4	00001		TRA 1,4	EXIT
00131	0020	00	0	00037	REST	TRA START-2	RESTART
00132	-0000	01	0	00136	PCNT	IOCP D,0,1	PUNCH ONE WORD + CONTINUE
00133	-1	00001	0	00136		IOCT D,0,1	PUNCH ONE WORD AND WAIT LCH FROM MF
00134	+0000000000000				SAVE	OCT 0	TEMPORARY STORAGE
00135	+0000000000012				TEN	DEC 10	
00136	-3777777777777				D	OCT 7777777777777	
00137	+0000000000001				ONE	OCT 1	
00140	+0000000000001				CNTR	OCT 1	
00141	+000000001022				CONST	OCT 1022	
00142	0000	30	0	01000	PCNT1	IOCD IMAGE,0,24	
00143	0003	60	0	01030	PCNT2	IOCD IMAGE+24,0,240	PUNCH 10 CARDS
				01000		ORG 512	
				01000	IMAGE	BSS 24	CARD IMAGE
				00000		END	