

REPRODUCTION

PRINT-PUNCH

A. PURPOSE OF TEST

TO TEST THE PRINT-PUNCH CIRCUITRY BY PRINTING 20 LINES AND PUNCHING 20 CARDS FROM A STORED TABLE IN RIPPLE FASHION.

B. LOADING PROCEDURES

1. PLACE TEST IN 1402 READ HOPPER AND DEPRESS LOAD KEY.
2. WHEN RUNNING TEST FROM TAPE, ENTER A 1 IN 1261 AND 1262.

C. PROGRAM CONTROL

I SENSE SWITCHES

- B ON PERMITS SCOPING OF THE PRINT-PUNCH OPERATIONS FOR ONE LINE
OFF TO CONTINUE
- D ON REPEATS THE PROGRAM FOR THE ENTIRE TEST
OFF TO CONTINUE

D. TEST PROCEDURE

THERE ARE NO DETAIL CARDS IN THIS TEST. THE 60-CHARACTER TABLE IS LOADED FROM CONSTANT CARDS 11 AND 12.

THE PROGRAM IS EXECUTED IN THE FOLLOWING MANNER:

THE 60-CHARACTER TABLE, STORED BY THE PROGRAM IN LOCATION 701-760, IS EXPANDED TO A 120-CHARACTER TABLE IN LOCATIONS 701-820. A CARD COUNTER IS THEN STARTED AT 780 AND IS USED IN AN INSTRUCTION TO MOVE 80 CHARACTERS STORED IN LOCATIONS 701-780 INTO THE PRINT AREA, AND ANOTHER INSTRUCTION TO MOVE THE SAME CHARACTERS INTO THE PUNCH AREA. A TEST IS NEXT MADE FOR NO-ZONE IN LOCATION 101. IF ZONE IN 101 THE PROGRAM PROCEEDS TO PRINT AND PUNCH THE RESULTS. IF NO-ZONE THE PROGRAM BRANCHES TO A PRINT-PUNCH AND BRANCH INSTRUCTION. A FAILURE TO BRANCH WILL STOP THE MACHINE.

THE 780 IN THE CARD COUNTER IS THEN COMPARED WITH 799 STORED BY THE PROGRAM IN LOCATIONS 609-611. AN UNEQUAL COMPARISON ALLOWS EXECUTION OF AN INSTRUCTION, TO ADD "1" TO THE CARD COUNTER, THUS, INCREASING IT FROM 780 TO 781, AND A SECOND LINE AND CARD IS PRINTED AND PUNCHED. IN THE MEANTIME, WITH SENSE SWITCH "D" SET TO THE OFF POSITION, 20 LINES WILL BE PRINTED AND 20 CARDS PUNCHED WITH THE 60-CHARACTER TABLE IN RIPPLE FASHION. PRINTING AND PUNCHING MAY BE CONTINUED INDEFINITELY BY SETTING SENSE SWITCH "D" TO THE ON POSITION.

DATE	2-2-61	7-1-63	17. 10. 63				
CHG. NO.	110378	117628	TA 1976				



DIAGNOSTIC FUNCTION TEST

PART NO. 451422
 SHEET 2 OF 5
 BLOCK NO. 1050B

REPRODUCTION

E. STOPS

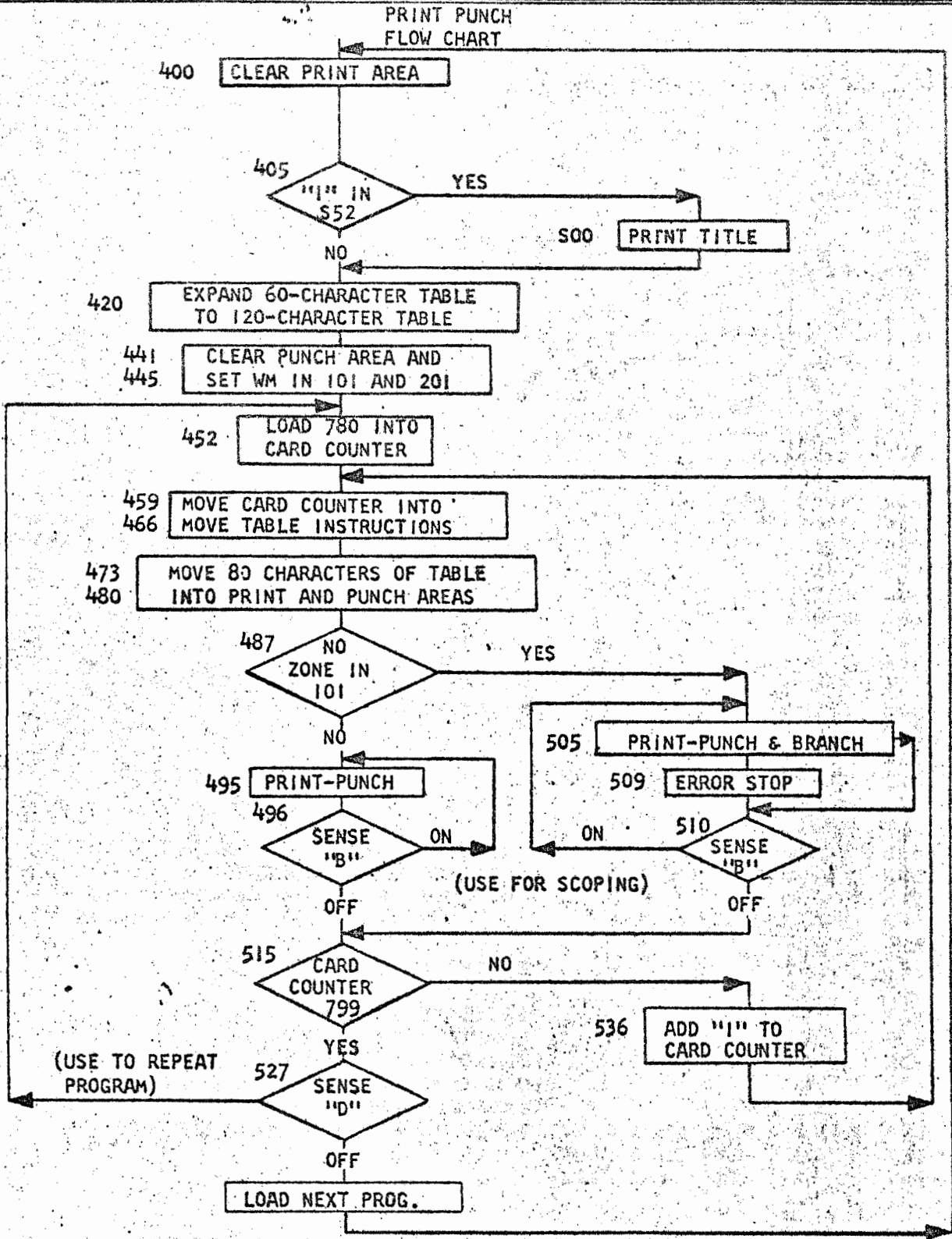
510 IN STORAGE ADDRESS REGISTER: ERROR-FAILED TO BRANCH

F. PRINTOUTS

SIMILAR TO TEST 1040.

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DIAGNOSTIC FUNCTION TEST

REPRODUCTION

PROGRAM LISTING FOR USE WITH FLOW CHART

PRINT-PUNCH

1050B

INSTRUCTION ADDRESS	OP	A	B	REMARKS
377	377	B	547 5611	USE WHEN TESTS ARE RUN FROM TAPE
385	385	B	588	..
400	400	/	332	START TEST
404	404	/		..
405	405	B	500 5521	BR TO TITLE PRINT ROUTINE IF 1 IN 552
413	413	B	420	BRANCH TO CONTINUE
420	420	B	721 741	EXPAND TABLE FROM 701-760 TO 701-820
427	427	L	760 820	..
434	434	B	761 761	..
441	441	/	180	CLEAR PUNCH
445	445	.	101 201	SET WM IN PUNCH AND PRINT AREAS
452	452	L	607 614	LOAD 780 INTO CARD COUNTER
459	459	M	614 476	MOVE CARD COUNTER INTO LOCATION 474-476
466	466	M	614 483	MOVE CARD COUNTER INTO LOCATION 481-483
473	473	M	XXX 280	*MOVE TABLE INTO PRINT AREA
480	480	M	XXX 180	*MOVE TABLE INTO PUNCH AREA
487	487	V	506 1012	BR TO PRINT-PUNCH + BR IF NO ZONE IN 101
495	495	.		PRINT-PUNCH
496	496	B	495 B	B ON TO SCOPE SS
501	501	B	515	BRANCH TO TEST FOR LAST CARD
505	505	.	510	PRINT-PUNCH + BRANCH
509	509	.		ERROR STOP IF NO BRANCH
510	510	B	505 B	B ON TO SCOPE SS
515	515	C	611 614	COMPARE CARD COUNTER WITH 799
522	522	B	536 /	BRANCH TO ADD 1 IF NOT 799
527	527	B	452 D	D ON TO REPEAT TEST SS
532	532	B	559	BRANCH TO READ NEXT RECORD
536	536	A	608 614	ADD 1 TO CARD COUNTER
543	543	B	459	BRANCH TO PRINT-PUNCH NEXT CARD
547	547	B	400 5621	USE WHEN TESTS ARE RUN FROM TAPE
555	555	B	348	..
559	559	/	280	REMOVE ANY GM WM
563	563	/	180	..
567	567	B	348	GO TO NEXT TEST
605	605	7	80	CONSTANT TO START CARD COUNTER
608	608	1		CONSTANT TO INCREMENT CARD COUNTER
609	609	7	99	CONSTANT TO STOP CARD COUNTER
612	612	X	XX	CARD COUNTER
701	701	A	KT4	TABLE TO BE PRINT-PUNCHED
721	721	E	OX8	FPY9 GQZO HR## ..
741	741	I	-,2	+521+.*72 #JS3- ..

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DIAGNOSTIC FUNCTION TEST

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TABLE OF UNPRINTABLE CHARACTERS

LP-LEFT PARENTHESIS	12 5 8	SE-SEMICOLON	11 6 8	DE-DELTA	11 7 8
WS-WORD SEPARATOR	0 5 8	LT-LESS THAN	12 6 8	PZ-PLUS ZERO	12 0
TS-TAPE SEGMENT MARK	0 7 8	GT-GREATER THAN	6 8	TM-TAPE MARK	7 8
GM-GROUP MARK	12 7 8	MZ-MINUS ZERO	11 0	CO-COLON	5 8
RP-RIGHT PARENTHESIS	11 5 8	AP-APOSTROPHE	0 6 8		

,008015,022029,033033N	1001	PRINT-PUNCH	10508	0A
,008015,022029,033033N	1001	SET WORDMARK CARD	10508	02
L067367,340344,348349,357361	1001,008012,001100118361080AB420/340080		10508	03
L068412,385400,404405,413413	10018547S611BS88	/332/BS00S521	10508	04
L071451,420427,434441,445452	10018420	721741L760820761761/180,101201	10508	05
L067486,459466,473480,487487	1001L607614M614476M614483MXXX280MXXX180		10508	06
L060514,495496,501505,509510	1001V505101268495885156510.85058		10508	07
L072554,522527,532536,543547	1001C6116148536/8452DB559A608614B4598400S621		10508	08
L072594,559563,567567,567567	10018348/280/1808348		10508	09
L072639,605608,609612,612612	1001	7801799XXX	10508	10
L072740,721741,741741,741741	1001AKT4	BLUSGCMV6 DNW7DEOX8 FPY9TGQZ0 HR#RT	10508	11
L072780,001001,001001,001001	10011-	M E S M Z Z	10508	12
L053520,501505,512513,517521	10012,049L0762762/2772420		10508	13
/333080N		CLEAR WORDMARK CARD	10508	14
,019027,031,0380428031T986B400L0463528W04BS88		PRINT-PUNCH	10508	15

M

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