

REPRODUCTION
 PRINT-READ-PUNCH

A. PURPOSE OF TEST

TO TEST THE PRINT-READ-PUNCH CIRCUITRY BY PRINTING, READING, AND PUNCHING 20 DETAIL CARDS WITH A 60-CHARACTER TABLE IN RIPPLE FASHION. THE DETAIL CARDS USED IN THIS TEST ARE SIMILAR TO THE ONES USED IN THE READ-PUNCH TEST (BLOCK NUMBER 1070).

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, 1262 AND 1263. PLACE DETAIL CARDS IN 1402 READ HOPPER.

C. PROGRAM CONTROL

1. SENSE SWITCHES

B ON PERMITS THE EXECUTION OF THE PRINT-READ-PUNCH OPERATION AS OFTEN AS DESIRED. SINCE THIS INSTRUCTION COMBINES THE OPERATION OF PRINTING, READING, AND PUNCHING, THESE THREE OPERATIONS WILL CONTINUE UNTIL THE READ FEED HOPPER OR THE PUNCH FEED HOPPER IS EMPTY.

OFF TO CONTINUE

D ON MAY BE USED ONLY WHEN THIS TEST IS RUN SEPARATELY. TO REPEAT THE TEST AS OFTEN AS DESIRED THE 20 CARDS PUNCHED DURING THIS TEST MAY BE REMOVED FROM THE PUNCH STACKER AND PLACED IN THE READ FEED HOPPER.

OFF TO CONTINUE

D. TEST PROCEDURE:

AFTER CLEARING THE READ AREA AND SETTING A WORD MARK IN LOCATION 001, A READ INSTRUCTION IS EXECUTED TO FEED THE FIRST DETAIL CARD. THE INFORMATION IN THE READ AREA IS THEN TRANSFERRED TO THE PUNCH AREA AND THE PRINT AREA. LOCATION 001 IS NEXT TESTED FOR NO-ZONE. IF ZONE IN 001 THE PROGRAM PROCEEDS TO PRINT-READ-PUNCH. IF NO-ZONE THE PROGRAM BRANCHES TO A PRINT-READ-PUNCH AND BRANCH INSTRUCTION. A FAILURE TO BRANCH WILL STOP THE MACHINE.

E. STOPS

466 IN STORAGE ADDRESS REGISTER: ERROR-FAILED TO BRANCH

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BM

DIAGNOSTIC FUNCTION TEST

PART NO. 451425
SHEET 2 OF 6
BLOCK NO. 10808

F. PRINTOUTS

SIMILAR TO TEST 1040

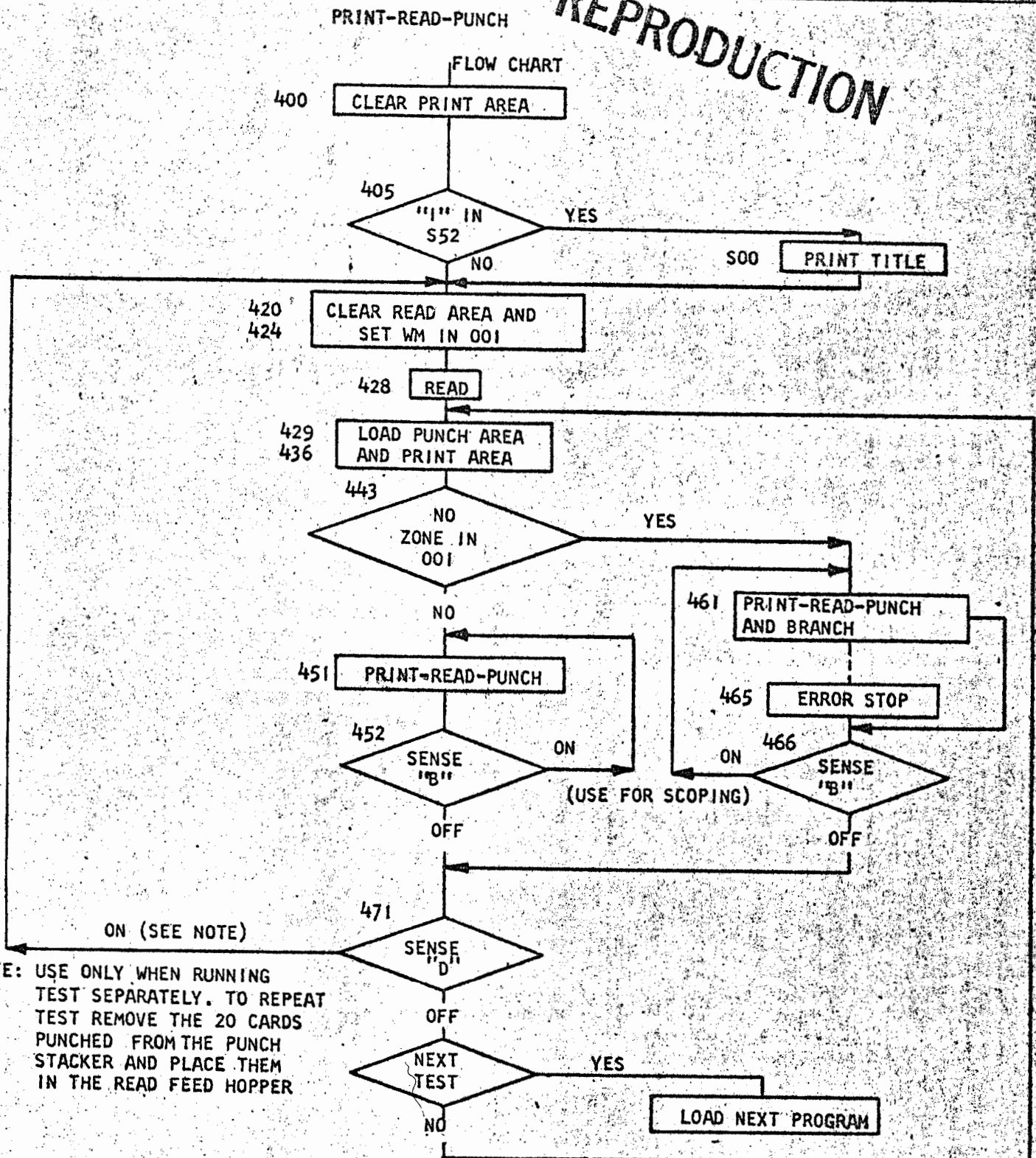
G. COMMENTS

REPRODUCTION

THE 20 CARDS PUNCHED IN THIS TEST SHOULD BE EXACT DUPLICATES OF THE 20 DETAIL CARDS (28-47) FURNISHED WITH THE TEST DECK AND SHOULD ALSO AGREE WITH THE LIST PRODUCED BY THE PROGRAM.

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NOTE: USE ONLY WHEN RUNNING TEST SEPARATELY. TO REPEAT TEST REMOVE THE 20 CARDS PUNCHED FROM THE PUNCH STACKER AND PLACE THEM IN THE READ FEED HOPPER

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1401 DATA PROCESSING SYSTEM
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SHEET 4 OF 6
BLOCK NO. 10808

REPRODUCTION

PROGRAM LISTING FOR USE WITH FLOW CHART

PRINT-READ-PUNCH

10808

INSTRUCTION	ADDRESS	OP	A	B	REMARKS		
	377	377	B	501	S611	USE WHEN TESTS ARE RUN FROM TAPE	
	385	385	B	S88			
	393	393	M	388	380	*BYPASS DETAIL CARDS ON TAPE	
	400	400	/	332		START TEST	
	404	404	/				
	405	405	B	S00	S521	BR TO TITLE PRINT ROUTINE IF 1 IN S52	
	413	413	B	420		BRANCH TO CONTINUE	
	420	420	/	080		CLEAR READ AREA	
	424	424	,	001		SET WM IN READ AREA	
	428	428	1			READ	
	429	429	L	080	180	LOAD PUNCH AREA	
	436	436	M	080	280	LOAD PRINT AREA	
	443	443	V	461	0012	BRANCH IF NO ZONE IN 001	
	451	451	7			PRINT-READ-PUNCH.	
	452	452	B	451	B	B ON TO SCOPE.	SS
	457	457	B	471		BRANCH TO CONTINUE	
	461	461	7	466		PRINT-READ-PUNCH AND BRANCH	
	465	465	.			ERROR STOP IF NO BRANCH	
	466	466	B	461	B	B ON TO SCOPE	SS
	471	471	B	420	D	SENSE SW D ON TO LOOP	SS
	476	476	B	492	348B	BRANCH WHEN TEST IS ON TAPE	
	484	484	B	361	080A	BRANCH IF TEST IS ON CARDS	
	492	492	B	541	A	BRANCH ON LAST CARD	SS
	497	497	B	429		REPEAT PROGRAM	
	501	501	B	513	S621	USE WHEN TESTS ARE RUN FROM TAPE	
	509	509	B	348			
	513	513	B	393	S631		
	521	521	B	348			
	525	525	/	180		CLEAR ANY GM WM	
	529	529	/	080			
	533	533	.	001		SET WM FOR CARDS	
	537	537	B	348		BRANCH TO CHAINING ROUTINE	
	541	541	L	080	180	PRINT AND PUNCH LAST CARD	
	548	548	M	080	280		
	555	555	6	525			
	559	559				WORDMARK	

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REPRODUCTION

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-READ-PUNCH	1080B	0A
,008015,022029,033033N	1001	SET WORDMARK CARD	1080B	02
L067367,340344,348349,3573611001,008012,001100118361080A8429/340080			1080B	03
L069404,377385,393400,4044051001	B501S611BS88	M388380/332/	1080B	04
L070442,413420,424428,42943610018S00S5218420	/080,0011L080180M080280		1080B	05
L060470,451452,457461,4654661001V461001278451884717466.B461B			1080B	06
L070508,476484,492497,50150910018420DB49234888361080A8541A8429B513S621			1080B	07
L064540,513521,525529,53353710018348B393S6318348/180/080,001B348			1080B	08
L072580,548555,559559,5695591001L080180M0802806525			1080B	09
L053S20,S01S05,S12S13,S17S2110012,049L0772772/2772420			1080B	10
/333080N	1001	CLEAR WORDMARK CARD	1080B	11
,019027,031,038042B031T98GB400L0463528W048S88		PRINT-READ-PUNCH	1080B	12

DETAIL CARDS

AKT4	BLU5GCMV6	DNW7DEOX8	FPY9TGQZ0	HR##TI-,a	+\$%IP.*/2	□JS3MAKT4	BLU5GCM1080B	13
M	E	S	M	Z	Z	M		
KT4	BLU5GCMV6	DNW7DEOX8	FPY9TGQZ0	HR##TI-,a	+\$%IP.*/2	□JS3MAKT4	BLU5GCMV1080B	14
M	E	S	M	Z	Z	M		
T4	BLU5GCMV6	DNW7DEOX8	FPY9TGQZ0	HR##TI-,a	+\$%IP.*/2	□JS3MAKT4	BLU5GCMV61080B	15
M	E	S	M	Z	Z	M		
4	BLU5GCMV6	DNW7DEOX8	FRY9TGQZ0	HR##TI-,a	+\$%IP.*/2	□JS3MAKT4	BLU5GCMV6	1080B 16
M	E	S	M	Z	Z	M		
	BLU5GCMV6	DNW7DEOX8	FPY9TGQZ0	HR##TI-,a	+\$%IP.*/2	□JS3MAKT4	BLU5GCMV6 D1080B	17
M	E	S	M	Z	Z	M		
	BLU5GCMV6	DNW7DEOX8	FPY9TGQZ0	HR##TI-,a	+\$%IP.*/2	□JS3MAKT4	BLU5GCMV6 DN1080B	18
M	E	S	M	Z	Z	M		
	LUSGCMV6	DNW7DEOX8	FPY9TGQZ0	HR##TI-,a	+\$%IP.*/2	□JS3MAKT4	BLU5GCMV6 DNW1080B	19
M	E	S	M	Z	Z	M		
	USGCMV6	DNW7DEOX8	FPY9TGQZ0	HR##TI-,a	+\$%IP.*/2	□JS3MAKT4	BLU5GCMV6 DNW71080B	20
M	E	S	M	Z	Z	M		
	5GCMV6	DNW7DEOX8	FPY9TGQZ0	HR##TI-,a	+\$%IP.*/2	□JS3MAKT4	BLU5GCMV6 DNW7D1080B	21
M	E	S	M	Z	Z	M		
	GCMV6	DNW7DEOX8	FPY9TGQZ0	HR##TI-,a	+\$%IP.*/2	□JS3MAKT4	BLU5GCMV6 DNW7DE1080B	22
E	S	M	Z	Z	M	E		
	CMV6	DNW7DEOX8	FPY9TGQZ0	HR##TI-,a	+\$%IP.*/2	□JS3MAKT4	BLU5GCMV6 DNW7DE01080B	23
E	S	M	Z	Z	M	E		
	MV6	DNW7DEOX8	FPY9TGQZ0	HR##TI-,a	+\$%IP.*/2	□JS3MAKT4	BLU5GCMV6 DNW7DEOX1080B	24
E	S	M	Z	Z	M	E		
	V6	DNW7DEOX8	FPY9TGQZ0	HR##TI-,a	+\$%IP.*/2	□JS3MAKT4	BLU5GCMV6 DNW7DEOX81080B	25
E	S	M	Z	Z	M	E		
	6	DNW7DEOX8	FPY9TGQZ0	HR##TI-,a	+\$%IP.*/2	□JS3MAKT4	BLU5GCMV6 DNW7DEOX8	1080B 26
E	S	M	Z	Z	M	E		

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1401 DATA PROCESSING SYSTEM
DIAGNOSTIC FUNCTION TEST

PART NO. 451425
SHEET 6 OF 6
BLOCK NO. 10808

REPRODUCTION

DNW7DEOX8 FPY9TGQZ0 HR#TI-,a +\$Z1P.* /2 □JS3MAKT4 BLU5GCMV6 DNW7DEOX8 F10808 27
 E S M Z Z M E
 DNW7DEOX8 FPY9TGQZ0 HR#TI-,a +\$Z1P.* /2 □JS3MAKT4 BLU5GCMV6 DNW7DEOX8 F10808 28
 E S M Z Z M E
 NW7DEOX8 FPY9TGQZ0 HR#TI-,a +\$Z1P.* /2 □JS3MAKT4 BLU5GCMV6 DNW7DEOX8 FPY10808 29
 E S M Z Z M E
 W7DEOX8 FPY9TGQZ0 HR#TI-,a +\$Z1P.* /2 □JS3MAKT4 BLU5GCMV6 DNW7DEOX8 FPY910808 30
 E S M Z Z M E
 7DEOX8 FPY9TGQZ0 HR#TI-,a +\$Z1P.* /2 □JS3MAKT4 BLU5GCMV6 DNW7DEOX8 FPY9T10808 31
 E S M Z Z M E S
 DEOX8 FPY9TGQZ0 HR#TI-,a +\$Z1P.* /2 □JS3MAKT4 BLU5GCMV6 DNW7DEOX8 FPY9TG10808 32
 S M Z Z M E S

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