

NUMERICAL RIPPLE PRINT **REPRODUCTION**

**A. PURPOSE OF TEST**

TO TEST HAMMER FIRING BY PRINTING EVERY CHARACTER ON THE NUMERICAL CHAIN IN EVERY PRINT POSITION 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 3 IN 1261.

**C. PROGRAM CONTROL**

**1. SENSE SWITCHES**

- B ON PERMITS SCOPING OF THE PRINTING OPERATION 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.

A 60-CHARACTER TABLE, STORED BY THE PROGRAM IN LOCATIONS 701-760, IS EXPANDED TO A 240-CHARACTER TABLE IN LOCATIONS 701-940. A LINE COUNTER IS THEN STARTED AT 832 AND IS USED AS AN INSTRUCTION TO PRINT 132 CHARACTERS STORED IN LOCATIONS 701-832. THE 832 IN THE LINE COUNTER IS THEN COMPARED TO 891 STORED BY THE PROGRAM IN LOCATIONS 607-609. AN UNEQUAL COMPARISON ALLOWS EXECUTION OF AN INSTRUCTION TO ADD A "1" TO THE LINE COUNTER, THUS INCREASING IT FROM 832 TO 833, AND A SECOND LINE IS PRINTED WITH 132 CHARACTERS STORED IN LOCATIONS 702-833, AND SO ON, UNTIL THE NUMBER IN THE LINE COUNTER IS 891. IN THE MEANTIME, WITH SENSE SWITCH "D" SET TO THE OFF POSITION, THE RESULT PRODUCED IS A LISTING OF 60 LINES OF PRINTING A 60-CHARACTER TABLE IN RIPPLE FASHION. RIPPLE PRINTING MAY BE CONTINUED INDEFINITELY BY SETTING SENSE SWITCH "D" TO THE ON POSITION.

NOTE: THE PROGRAM PROVIDES FOR PRINTING 132 CHARACTERS ON EACH LINE, BUT ONLY 100 CHARACTERS WILL PRINT ON EACH LINE WITH A MACHINE HAVING 100 PRINT POSITIONS.

**E. STOPS**

NONE

DATE	3-13-61	6-29-63	17. 10. 63				
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DIAGNOSTIC FUNCTION TEST

REPRODUCTION

F. PRINTOUTS

1234 5678 90- . \$\*\*X\*\*\$ . -09 8765 4321 2468 0. \$X1357 9-.\* 1234 5678 90- . ETC.  
234 5678 90- . \$\*\*X\*\*\$ . -09 8765 4321 2468 0. \$X1357 9-.\* 1234 5678 90- . ETC.  
34 5678 90- . \$\*\*X\*\*\$ . -09 8765 4321 2468 0. \$X1357 9-.\* 1234 5678 90- . ETC.  
4 5678 90- . \$\*\*X\*\*\$ . -09 8765 4321 2468 0. \$X1357 9-.\* 1234 5678 90- . ETC.  
5678 90- . \$\*\*X\*\*\$ . -90 8765 4321 2468 0. \$X1357 9-.\* 1234 5678 90- . ETC.  
5678 90- . \$\*\*X\*\*\$ . -90 8765 4321 2468 0. \$X1357 9-.\* 1234 5678 90- . ETC.

G. COMMENTS

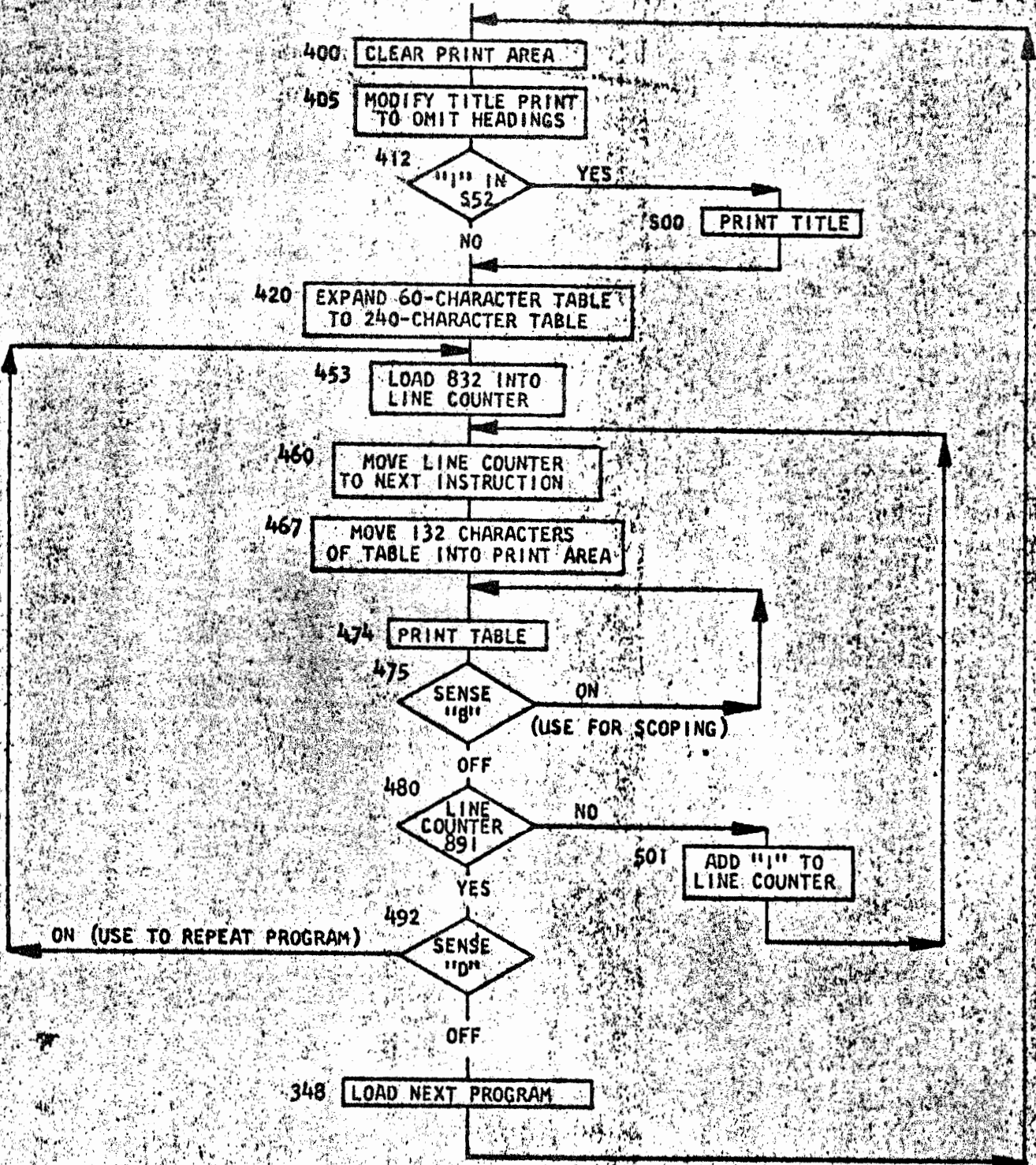
SINCE THERE ARE NO ALPHABETIC CHARACTERS ON THE NUMERICAL CHAIN, THE BLOCK NUMBER "1022" IS PRINTED ON THE TITLE LINE WITHOUT THE LETTER SUFFIX WHEN THE "I" IS MANUALLY INSERTED IN 552.

DATE	3-13-61	6-29-63	17. 10. 63				
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NUMERICAL RIPPLE PRINT

REPRODUCTION

FLOW CHART



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DIAGNOSTIC FUNCTION TEST

REPRODUCTION

PROGRAM LISTING FOR USE WITH FLOW CHART

NUMERICAL RIPPLE PRINT 10228

INSTRUCTION ADDRESS	OP	A	B	REMARKS
377 377	B	400	5613	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 701-940
427 427	L	760	820	..
434 434	B	761		..
438 438	L	820	940	..
445 445	B	821		..
449 449	/	201		..
453 453	L	607	614	SET WM IN PRINT AREA
460 460	M	614	470	LOAD LINE COUNTER
467 467	M	832	332	MOVE LINE CTR INTO NEXT INSTRUCTION
474 474	2			MOVE TABLE INTO PRINT AREA
475 475	B	474	B	PRINT
480 480	C	611	614	B ON TO SCOPE SS
487 487	B	501	/	COMPARE LINE COUNTER WITH 891
492 492	B	453	D	BRANCH TO ADD 1 IF NOT 891
497 497	B	348		D ON TO REPEAT TEST SS
501 501	A	608	614	BRANCH TO READ NEXT RECORD
508 508	B	460		ADD 1 TO LINE COUNTER
605 605	B	32		BRANCH TO PRINT NEXT LINE
608 608	1			CONSTANT TO START LINE COUNTER
609 609	B	91		CONSTANT TO INCREMENT LINE COUNTER
612 612	X	XX		CONSTANT TO STOP LINE COUNTER
701 701	1	234	5678 90-1 .5-0	LINE COUNTER
721 721	B	8.	09 8765 4321	TABLE TO BE RIPPLE PRINTED
741 741	2	468	0.50 1357 9-0	..

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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	NUMERICAL RIPPLE PRINT	1022B 0A
.008015,022029,033033N	1001	SET WORDMARK CARD	1022B 02
L067367,340344,348349,3573611001,008012,001100118361080AB420/340080			1022B 03
L069404,377385,400404,4054051001	B40056138588	/332/	1022B 04
L072444,413420,427434,4384451001BS00S5218420	721741L760820761L820940		1022B 05
L067479,449453,460467,4744751001821,201L607614M614470M83233228474B			1022B 06
L072519,487492,497501,5085081001C6116148501/8453DB348A6086148460			1022B 07
L0726396600600,605608,6096121001	8321891XXX		1022B 08
L0727196680680,701701,7017011001		1234 5678 90-, .\$=1022B 09	
L0727596720720,721741,7417411001	00\$. , -09 8765 4321 2468 0, \$1357 9-, 1022B 10		
L053520,501505,512513,51752110012,049L0762762/2772420			1022B 11
/333080N		CLEAR WORDMARK CARD	1022B 12
.019027,031,0380428031T98GB400L0463528W048S88			1022B 13

M

DATE	3-13-61	6-29-63	17.10.63				
ENG. CHG. NO.	110378B	117628	TA 1976				