

TAPE TO PUNCH/PRINTER

REPRODUCTION

A. PURPOSE OF TEST

TO READ INTO THE PUNCH AND PRINT AREAS THE 20-CHARACTER TAPE RECORDS THAT WERE WRITTEN ON TAPE DURING THE CARD-TO-TAPE TEST (BLOCK NUMBER 5000).

B. LOADING PROCEDURE

1. WHEN RUNNING TEST FROM CARDS:

- A. SET WORKING TAPE DRIVE TO 4
- B. PLACE TEST IN 1402 READ HOPPER AND DEPRESS LOAD KEY.

2. WHEN RUNNING TEST FROM TAPE:

- A. SET WORKING TAPE DRIVE TO 4
- B. ENTER A 1 IN 1268, 1261 AND 1262.

C. PROGRAM CONTROL

1. SENSE SWITCHES

- B ON TO REPEAT FOR SCOPING
OFF TO CONTINUE
- C ON TO PRINT CORRECT RESULTS
OFF TO CONTINUE
- D ON TO REPEAT INDIVIDUAL RECORD WHEN USED WITH B ON
OFF TO REPEAT ALL RECORDS WHEN USED WITH B ON
- E ON TO STOP ON ERROR
OFF TO PRINT ERRORS
- G ON TO REPEAT ENTIRE TEST
OFF TO CONTINUE

D. TEST PROCEDURE

THE INDIVIDUAL TAPE RECORDS ARE READ INTO STORAGE. IF AN ERROR IS DETECTED THE PROGRAM BRANCHES TO AN ERROR PRINT ROUTINE.

WHEN THE TAPE MARK IS SENSED BY THE READ TAPE DRIVE UNIT, AN END-OF-REEL CONDITION IS RECOGNIZED WHICH PROCEEDS TO LOAD THE NEXT PROGRAM IF SENSE SWITCH G IS OFF OR REPEATS THE TEST IF IT IS ON.

DATE	2-2-61	6-29-63	17. 10. 63					
ENG. CHG. NO.	110378	117628	TA 1976					



DIAGNOSTIC FUNCTION TEST

PART NO. 451451
 SHEET 2 OF 6
 BLOCK NO. 5010C

REPRODUCTION

E. STOPS

917 IN STORAGE ADDRESS REGISTER: ERROR SENSE E ON

F. PRINTOUTS

1. CORRECT

TAPE RECORD

JJJJJJJJJJJJJJJJJJJJJ
 KKKKKKKKKKKKKKKKKKKK

TAPE DR 4

TAPE READ
 TAPE READ

2. ERROR

JJJJJ111JJJJJJJJJJJJ
 KKK22222KKKKK2KKKKK

TAPE READ ERROR
 TAPE READ ERROR

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1401 DATA PROCESSING SYSTEM
DIAGNOSTIC FUNCTION TEST

PART NO. 451451
SHEET 4 OF 6
BLOCK NO. 5010C

REPRODUCTION

PROGRAM LISTING FOR USE WITH FLOW CHART

TAPE TO PUNCH/PRINTER 5010C

INSTRUCTION ADDRESS	OP	A	B	REMARKS
377	377	B	528	S681 USE WHEN TESTS ARE RUN FROM TAPE
385	385	B	S88	''
400	400	/	332	START TEST
404	404	/		
405	405	B	S00	S521 BR TO TITLE PRINT ROUTINE IF 1 IN S52
413	413	B	425	
425	425	U	8U4	R REWIND
430	430	/	180	CLEAR PUNCH AREA
434	434	L	S50	121 LOAD GM WM IN LOC 121
441	441	L	8U4	101R READ TAPE
449	449	B	490	K BRANCH IF END OF REEL
454	454	B	510	B SENSE B ON TO SCOPE SS
459	459	B	893	L BRANCH ON TAPE ERROR
464	464	B	943	C C ON TO CORRECT PRINT ROUTINE SS
469	469	4		PUNCH OR NO OP C FOR TA
470	470	B	519	D BRANCH TO BACKSPACE. SHORT RUNS ONLY SS
470	470	B	519	D OR TAPE WILL BE DAMAGED
475	475	B	441	BRANCH
490	490	B	425	G G ON TO REPEAT TEST SS
495	495	/	181	CLEAR GM WMS
499	499	B	348	BRANCH TO PROGRAM CHAINING ROUTINE
510	510	B	519	D BRANCH TO BACKSPACE. SHORT RUNS ONLY SS
515	515	B	441	BRANCH TO READ TAPE
519	519	U	8U4	B BACKSPACE
524	524	B	441	BRANCH TO READ TAPE
528	528	B	540	S611 USE WHEN TESTS ARE RUN FROM TAPE
536	536	B	348	''
540	540	B	400	S621 ''
548	548	B	348	''
893	893	L	120	220 LOAD ERROR TAPE RECORD IN PRINT AREA
900	900	L	986	285 LOAD ERROR COMMENT IN PRINT AREA
907	907	B	916	E E ON TO ERROR STOP SS
912	912	2	470	ERROR PRINT - BRANCH TO SENSE D
916	916	.		ERROR STOP
917	917	B	470	BRANCH TO SENSE D
943	943	L	120	220 LOAD CORRECT TAPE RECORD IN PRINT AREA
950	950	L	406	285 ''
957	957	2	470	CORRECT PRINT - BRANCH TO SENSE D
961	961			WORD MARK
972	972	T	APE	READ ERROR CONSTANT
992	992	T	APE	READ ''
1120	120	T	APE	RECORD ''
1140	140			''

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1160 /60
1180 /80 T APE DR 4
1250 S50

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GROUP MARK IN S50

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1401 DATA PROCESSING SYSTEM
DIAGNOSTIC FUNCTION TEST

PART NO. 451451
SHEET 6 OF 6
BLOCK NO. 5010C

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	TAPE TO PUNCH/PRINTER	5010C	0A
,008015,022029,033033N	1001	SET WORDMARK CARD	5010C	02
L067367,340344,348349,357361	1001,008012,0011001	B361080AB348/340080	5010C	03
L069404,377385,400404,405405	1001	B528S6818S88 /332/	5010C	04
L068440,413425,430434,441441	1001	B500S5218425 UZU4R/180LS50121	5010C	05
L066474,449454,459464,469470	1001	L%U4101RB490KB510BB893LB943C4B519D	5010C	06
L072514,490495,499510,515515	1001	B441 B425G/1818348 B519D	5010C	07
L065547,519524,528536,540548	1001	B441 UZU4BB441B540S611B348B400S621	5010C	08
L072587,001001,001001,001001	1001	B348	5010C	09
L071906,868868,893900,907907	1001		5010C	10
L068942,912916,917943,943943	1001	B916E2470.8470 L120220L986285	5010C	11
L072982,950957,961972,972972	1001	L120220L#062852470 TAPE READ	E5010C	12
L072+22,983983,992992,992992	1001	ERROR TAPE READ	5010C	13
L069/39,03/03,/20/40,/40/40	1001		5010C	14
L072/79,/60/80,/80/80,/80/80	1001		5010C	15
L070S17,S00S01,S05S12,S13S17	1001	TAPE DR 4 2,049L0772772/2772	5010C	16
L064S49,S25S29,S36S37,S41S45	1001	40/60/80L/892702/2702413	5010C	17
L033S50,001001,001001,001001	1001	G	5010C	18
/333080N			5010C	19
,019027,031,038042B031T98GB400L046352BW04BS88			5010C	20

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