

MOVE TAPE

REPRODUCTION

A. PURPOSE OF TEST

TO TEST THE MOVE TAPE CIRCUITRY BY TRANSFERRING FROM STORAGE TO TAPE TWELVE 15-CHARACTER RECORDS DEVELOPED BY THE PROGRAM. EACH RECORD WRITTEN ON TAPE IS READ BACK INTO STORAGE AND COMPARED.

B. LOADING PROCEDURES

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

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  
OFF TO CONTINUE
- E ON TO STOP ON ERROR  
OFF TO PRINT ERROR
- G ON TO REPEAT ENTIRE TEST  
OFF TO CONTINUE

D. TEST PROCEDURE

THE TWELVE 15-CHARACTER RECORDS LISTED BELOW ARE DEVELOPED BY THE PROGRAM FROM A TABLE STORED IN LOCATIONS /01-/13 (1101-1113):

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DIAGNOSTIC FUNCTION TEST

F. PRINTOUTS

REPRODUCTION

1. CORRECT

PASS	RECORD WRITTEN	TYPE OF ERRORS	RECORD READ BACK	TYPE OF ERRORS
1	AAAAAAAAAAAAAA 		AAAAAAAAAAAAAA 	
1	AKAKAKAKAKAKA 		AKAKAKAKAKAKA 	
1	KTKTKTKTKTKTK 		KTKTKTKTKTKTK 	
	ETC.		ETC.	
10	.@.@.@.@.@.@. 		.@.@.@.@.@.@. 	

2. ERROR

PASS	RECORD WRITTEN	TYPE OF ERRORS	RECORD READ BACK	TYPE OF ERRORS
1	AAAAAAAAAAAAAA 	TAPE	AAAAAAAAAAAAAA 	ERR (WORD MARKS)
1	X8X8X8X8X8X8X 		X8X8X8X8X8X8X 	ERR TAPE
1	-.-.-.-.-.-.-. 		-.-.-.-.-.-.-. 	ERR TAPE COMPARE

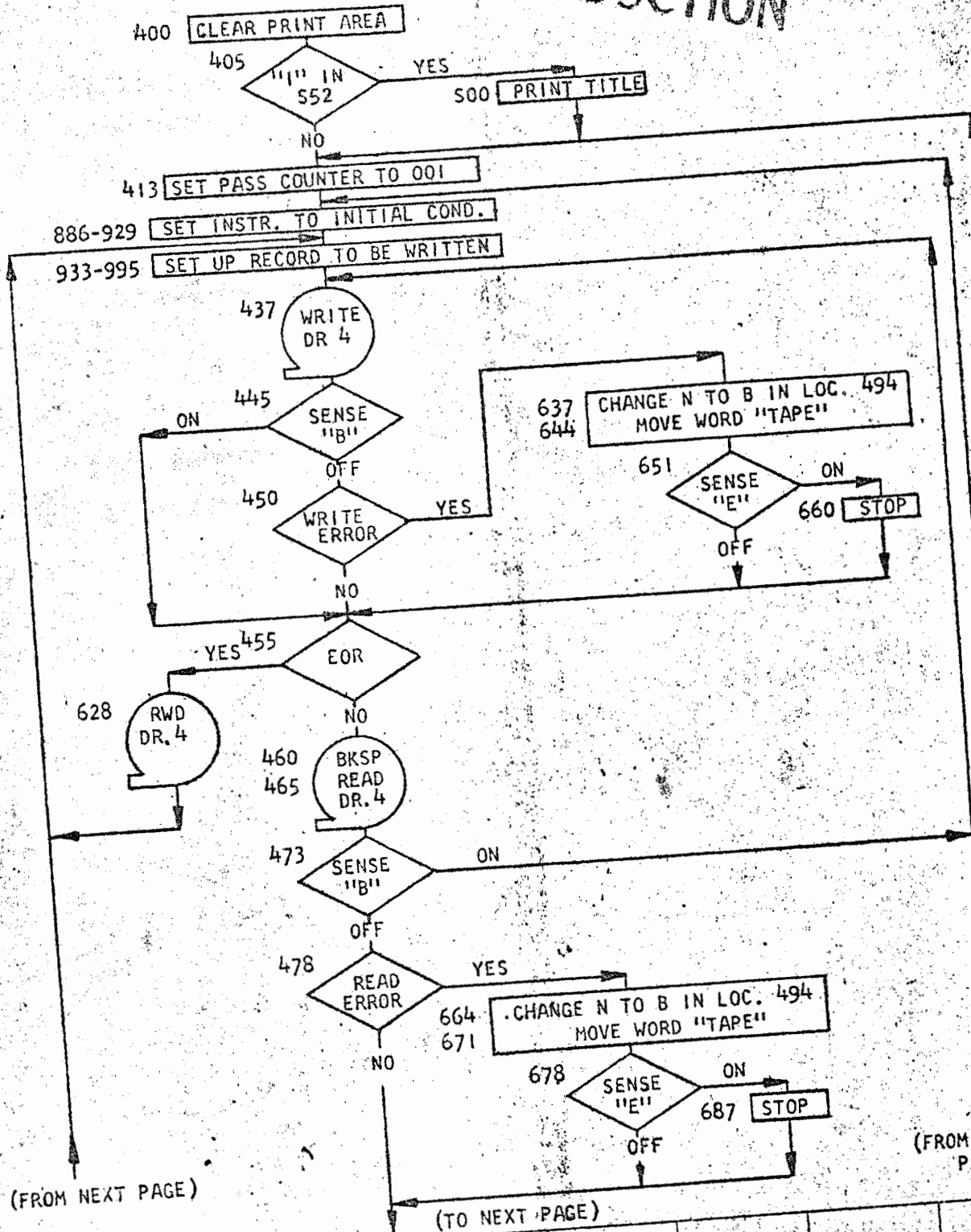
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# DIAGNOSTIC FUNCTION TEST

PART NO. 451454  
 SHEET 4 OF 9  
 BLOCK NO. 50400

## REPRODUCTION

MOVE TAPE  
 FLOW CHART



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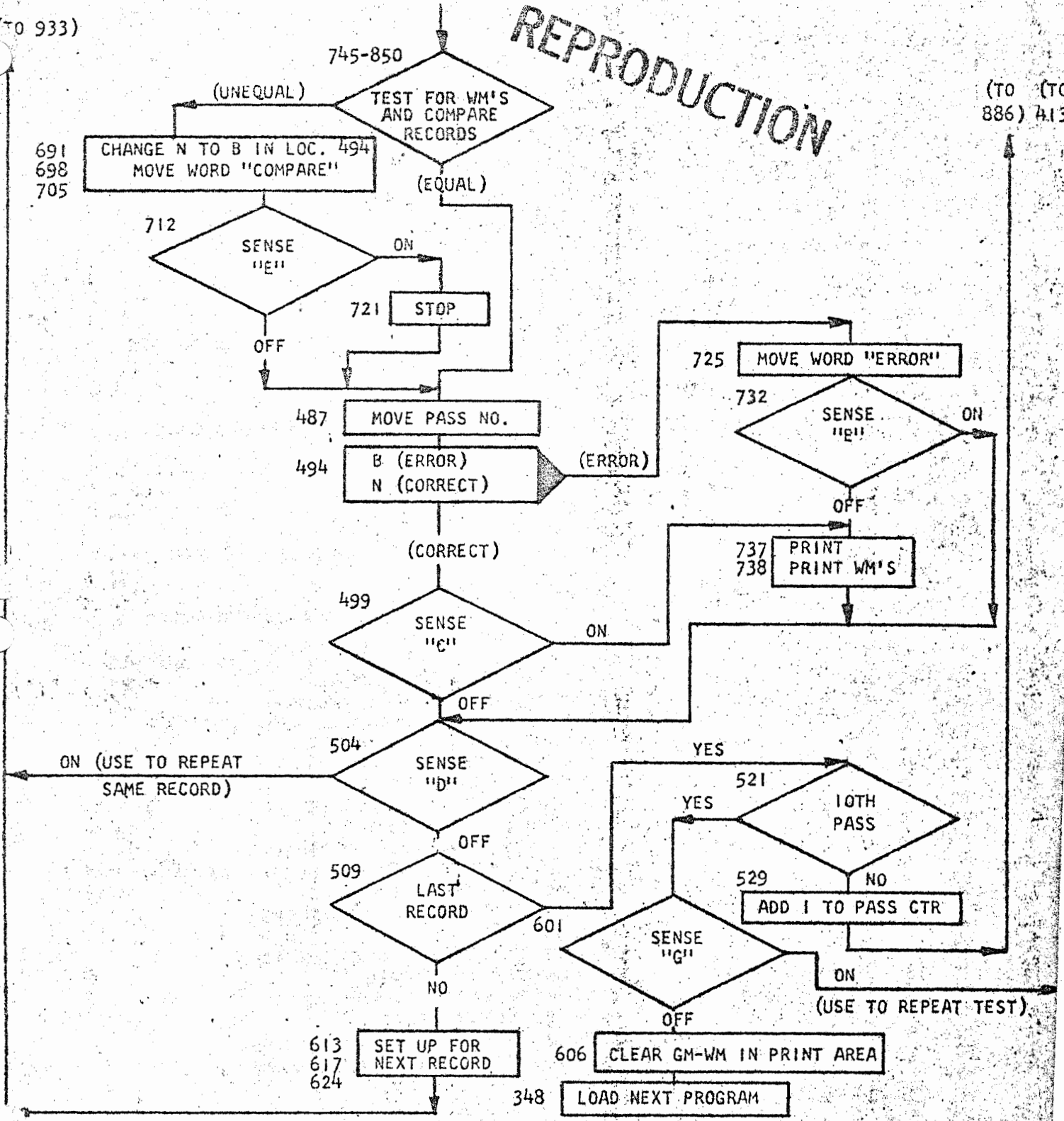
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REPRODUCTION

(TO 933)

(TO 886) (TO 413)



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1401 DATA PROCESSING SYSTEM  
DIAGNOSTIC FUNCTION TEST

REPRODUCTION

PROGRAM LISTING FOR USE WITH FLOW CHART

MOVE TAPE

50400

INSTRUCTION	ADDRESS	OP	A	B	REMARKS
	377	B	400	S681	USE WHEN TESTS ARE RUN FROM TAPE
	385	B		S88	
	400	/		332	START TEST
	404	/			
	405	B	S00	S521	BR TO TITLE PRINT ROUTINE IF 1 IN S52
	413	M	#04	#07	SET PASS COUNTER TO 001
	420	N	000	0	NOP
	425	,	199		SET WM IN 199
	429	B	886		BR TO SET MOD INSTR TO INITIAL COND.
	437	M	#U4	208W	WRITE 15 CHARACTER RECORD
	445	B	455	B	B ON TO SCOPE
	450	B	637	L	BRANCH IF WRITE ERROR
	455	B	628	K	BRANCH IF END OF REEL
	460	U	#U4	B	BACKSPACE
	465	M	#U4	245R	READ BACK SAME 15 CHARACTER RECORD
	473	B	437	B	B ON TO SCOPE SS
	478	B	664	L	BRANCH IF READ ERROR
	483	B	745		BRANCH TO TEST FOR ERROR BY COMPARING
	487	Z	#07	203	MOVE PASS NUMBER
	494	N	725		*NOP IF NO ERRORS - BRANCH IF ANY ERRORS
	499	B	737	C	C ON TO CORRECT ROUTINE SS
	504	B	933	D	D ON TO REPEAT SAME RECORD SS
	509	C	944	#10	TEST IF LAST RECORD HAS BEEN WRITTEN
	516	B	613	/	BRANCH IF NOT LAST RECORD
	521	B	601	#061	BRANCH IF END OF 10TH PASS
	529	A	#00	#07	ADD 1 TO PASS COUNTER
	536	B	886		BRANCH TO START NEXT PASS
	601	B	413	G	G ON TO REPEAT TEST SS
	606	/	348	299	BRANCH TO READ NEXT PROGRAM
	613	,	942		ADD 1 TO MOVE INSTR TO SET UP NEXT
	617	A	#00	944	RECORD TO BE WRITTEN
	624	B	933		BRANCH TO SET UP NEXT RECORD
	628	U	#U4	R	REWIND
	633	B	933		BRANCH TO SET UP SAME RECORD
	637	L	405	494	CHANGE NOP TO BRANCH
	644	M	#88	230	MOVE TAPE WRITE ERROR COMMENT
	651	B	660	E	E ON TO ERROR STOP SS
	656	B	455		BRANCH TO TEST FOR END OF REEL
	660	.	455		ERROR STOP IF TAPE WRITE ERROR
	664	L	405	494	CHANGE NOP TO BRANCH
	671	M	#88	267	MOVE TAPE READ ERROR COMMENT
	678	B	687	E	E ON TO ERROR STOP SS
	683	B	745		BRANCH TO TEST FOR ERROR BY COMPARING

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687	687	.	745	ERROR STOP IF TAPE READ ERROR
691	691	.	246 258	SET WM IN TAPE READ AREA
698	698	L	405 494	CHANGE NOP TO BRANCH
705	705	M	495 278	MOVE COMPARE ERROR COMMENT
712	712	B	721 E	E ON TO ERROR STOP
717	717	B	487	BRANCH TO MOVE PASS NUMBER
721	721	.	487	ERROR STOP IF ERROR DETECTED BY COMPARE
725	725	M	700 285	MOVE WORD ERROR TO PRINT
732	732	B	504 E	E OFF TO ERROR PRINT
737	737		2	PRINT
738	738		2 □	PRINT WORD MARKS
740	740	B	504	BRANCH TO SENSE D
745	745	V	757 2461	TEST FOR WORD MARKS
753	753	B	698	''
757	757	V	769 2581	''
765	765	B	698	''
769	769	□	246 258	''
776	776	□	260 223	''
783	783	C	260 223	TEST FOR ERRORS BY COMPARING
790	790	B	691 /	''
795	795	C	258 221	''
802	802	B	691 /	''
807	807	C	252 215	''
814	814	B	691 /	''
819	819	V	691 2591	TEST FOR WORD MARKS
827	827	V	691 2531	''
835	835	V	691 2451	''
843	843	.	246 258	''
850	850	B	487	''
886	886	M	14 910	SET MODIFIED INSTR TO INITIAL COND
893	893	M	18 944	''
900	900	□	908 /13	SET WORD MARKS THROUGHOUT TABLE
907	907	.	701 908	''
914	914	V	933 /131	''
922	922	A	400 910	''
929	929	B	900	''
933	933	/	299	CLEAR PRINT AREA
937	937	□	942	SET UP 15 CHARACTER RECORD TO BE
941	941	M	702 209	* WRITTEN ON TAPE
948	948	L		''
949	949	M	209 211	''
956	956	M	211 215	''
963	963	L	214 222	''
970	970	.	222	''
974	974	L	550 223	''
981	981	M	740 494	CHANGE ERROR BRANCH TO NOP
988	988	.	246 258	SET WORD MARK IN TAPE READ AREA
995	995	B	437	BRANCH TO WRITE TAPE
1000	400	1	000 1	CONSTANT
1005	405	X	XX	PASS COUNTER FOR NO. OF TEST PASSES
1008	408	/	13, /01M/02	CONSTANT
1085	485	T	APE	CONSTANTS FOR PRINTOUTS

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1401 DATA PROCESSING SYSTEM  
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PART NO. 451454  
SHEET 8 OF 9  
BLOCK NO. 50400

REPRODUCTION

1089	#89	C OMP ARE	..	
1096	#96	E RRO R	..	
1101	/01	A AKT 4EOX81-02		CONSTANTS FOR TAPE RECORDS
1120	/20	P ASS RECORD WRITTE		CONSTANTS FOR HEADINGS
1140	/40	N TYPE OF ERRORS	..	
1160	/60	RECORD READ BACK	..	
1180	/80	T YPE OF ERRORS	..	
1250	550			GROUP MARK IN 550

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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	MOVE TAPE	5040D	0A
,008015,022029,033033N	1001	SET WORDMARK CARD	5040D	02
L067367,340344,348349,3573611001,008012,00110011B361080AB348/340080			5040D	03
L069404,377385,400404,4054051001	B400S681BS88	/332/	5040D	04
L072444,413420,425429,4374451001BS00S521M#04#07N0000,199B886		M#U4208W	5040D	05
L070482,450455,460465,4734781001B455BB637LB628KU#U4BM#U4245RB437BB664L			5040D	06
L070520,487494,499504,5095161001B745Z#07203N725 B737C8933DC944#10B613/			5040D	07
L072560,529536,536536,5365361001B601#061A#00#07B886			5040D	08
L068636,606613,617624,6286331001B413G/348299,942A#00944B933UZU4RB933			5040D	09
L066670,644651,656660,6646711001L405494M#88230B660EB455.455L405494			5040D	10
L066704,678683,687691,6987051001M#88267B687EB745.745,246258L405494			5040D	11
L065737,712717,721725,7327371001M#95278B721EB487.487M/00285B504E2			5040D	12
L070775,740745,753757,76576910012#B504 V7572461B698V7692581B698#246258			5040D	13
L070813,783790,795802,8078141001#260223C2602238691/C2582218691/C252215			5040D	14
L068849,819827,835843,8508501001B691/V6912591V6912531V6912451,246258			5040D	15
L068885,886886,886886,8868861001B487			5040D	16
L068921,893900,907914,9229221001M#14910M#18944#908/13,/01908V933/131			5040D	17
.066955,929933,937941,9489491001A#00910B900/299#942M/02209LM209211			5040D	18
L071994,963970,974981,9889951001M211215L214222,222LS50223M/40494,246258			5040D	19
L072#34,#00#05,#08#08,#08#081001B437 10001XXX/13,/01M/02			5040D	20
L072/14#75#75,#85#89,#96/011001		TAPECOMPAREERRORAAKT#EOX8I-,@	5040D	21
L072/54#15/15,/20/40,/40/401001	PASS	RECORD WRITTEN	TYPE OF E	5040D 22
L072/94#55/55,/60/80,/80/801001RRORS	RECORD READ BACK	TYPE OF ERRO	5040D	23
L050S12#95/95,S00S01,S05S121001RS	2,049L0772772		5040D	24
L060S40,S17S18,S25S29,S36S371001/2772#40/60#80L/992802/280			5040D	25
L042S50,S45S50,S50S50,S50S5010012413	G		5040D	26
	M			
/333080N		CLEAR WORDMARK CARD	5040D	27
,019027,031,038042B031T98GB400L046352BW048S88		MOVE TAPE	5040D	28

M

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