

9 T 0 4 A

A. PURPOSE OF TEST

1. TO CHECK ACCURACY OF INFORMATION WRITTEN ON ONE TAPE FRAME AND READ ON ANOTHER

B. METHOD OF TEST

1. THIS PROGRAM WRITES 400 RANDOM LENGTH, RANDOM WORD RECORDS. THEN READS AND CHECKS THESE RECORDS AND REWINDS. HERE THE PROGRAM HALTS TO PERMIT THIS TAPE REEL TO BE PLACED ON A DIFFERENT FRAME TO BE READ AND CHECKED.
2. THIS PROGRAM IS WRITTEN FOR UNIT 1 ON CHANNEL A AND USES 9IOM TO ADJUST FOR DESIRED CHANNELS
3. THIS PROGRAM USES THE STANDARD 709 ERROR PRINT ROUTINE 9DEPR FOR ERROR INDICATION AND PROGRAM CONTROL.

C. AREA OF MACHINE REQUIRED

1. UNITS MF, CF, CR, PR, DS AND TAPE UNITS TO BE TESTED
2. STORAGE LOCATIONS 00000 TO 02233 9T04 DIAGNOSTIC  
05500 TO 06476 9IOM MODIFYING ROUTINE  
06500 TO 07675 9DEPR ERROR ROUTINE

D. PROGRAM CONTROL

1. DECK 000 9LD01 LOADER  
001 - 017 9T04 DIAGNOSTIC  
018 - 041 9IOM MODIFICATION ROUTINE  
042 - 070 9DEPR ERROR ROUTINE  
072 TRANSFER CARD - TRA 30  
072 - 073 BLANK CARDS

2. SENSE SWITCH CONTROL

SENSE SWITCHES 1, 3, 3, AND 4 ARE USED BY 9DEPR. SEE WRITE UP FOR 9DEPR FOR DETAILED DESCRIPTION OF THEIR USE WHICH IS BRIEFLY AS FOLLOWS

- A. SWITCH 1 UP - TEST SENSE SWITCH 4  
  
SWITCH 1 DN - REPEAT TEST LOOP
- B. SWITCH 2 UP - INDICATE ERROR - TEST SSW3 TO PRINT OR HALT  
  
SWITCH 2 DN - BYPASS ERROR INDICATION - TEST SSW1
- C. SWITCH 3 UP - PRINTOUT IF SSW 2 UP THEN TEST SSW1  
  
SWITCH 3 DN - STOP ON ERROR. IF SSW2 IS UP, THEN TEST SSW1
- D. SWITCH 4 UP - PROCEED TO NEXT TEST ROUTINE  
  
SWITCH 4 DN - REPEAT SECTION N TIMES, OR IF ERROR OCCURS TO NEXT SECTION.
- E. SWITCH 5 UP - GO TO 9IOM TO ADJUST PROGRAM FOR NEXT CHANNEL OR UNIT  
  
SWITCH 5 DN - HALT - THEN PRESS START TO REPEAT READ ON SAME CHANNEL
- F. SWITCH 6 UP - END TEST - CALL IN NEXT PROGRAM  
  
SWITCH 6 DN - TEST SSW 5

E. NORMAL STOPS

- 1. STOPS AT BEGINNING OF PROGRAM TO ENTER ON KEYS THE CONTROL WORDS FOR CHANNELS AN UNITS USED IN MODIFICATION ROUTINE 9IOM. ONE, TWO OR THREE STOPS WILL OCCUR CORRESPONDING TO THE NUMBER OF DS TO BE TESTED AS SPECIFIED BY THE TAG BITS OF THE FIRST CONTROL WORD.

A TAG OF 1 SPECIFIES CHN A AND/OR B  
A TAG OF 2 SPECIFIES CHN C AND/OR D  
A TAG OF 4 SPECIFIES CHN E AND/OR F

IF MORE THEN ONE DS IS TO BE TESTED, THEN THE FIRST

CONTROL WORD SHOULD CONTAIN A MULTIPLE TAG.

05517 ENTER CONTROL WORD FOR FIRST DS ON KEYS  
TAG FOR ALL DS TO BE TESTED  
PRESS START

05533 ENTER CONTROL WORD FOR CHN C AND/OR D  
PRESS START

05540 ENTER CONTROL WORD FOR CHN E AND/OR F  
PRESS START

05525 CONTROL WORD FAILED TO CONTAIN A TAG FOR ANY  
DS. RE-ENTER FIRST CONTROL WORD WITH TAG  
PRESS START

SEE CONTROL WORD FORMAT

NOTE - ONLY 1 TAPE FRAME PER CHANNEL SHOULD BE  
CALLED FOR IN CONTROL WORDS

#### F. ERROR STOPS

##### 1. 9DEPR ERROR INDICATION STOPS WITH SSW3 DOWN

06517 INDEX REGISTER C CONTAINS THE TWOS COMPLEMENT  
OF THE ERROR EXIT ADDRESS. READ LIGHTS THAT ARE  
OUT AND ADD 1 AND CONSULT THAT ADDRESS IN PROGRAM  
LISTING FOR ERROR ANALYSIS.

06545 SAME AS ABOVE  
PUSH START TO CONTINUE PROGRAM

#### G. ERROR PRINT OUTS

SEE WRITE UP FOR 9DEPR FOR EXAMPLE AND DESCRIPTION  
OF PRINT OUT.

TEST LOC IS ADDRESS OF ENTRY TO ROUTINE IN WHICH  
ERROR OCCURRED. OPN IS THE INSTRUCTION MOST BASIC  
TO THE CONDITION BEING TESTED IN FAILING ROUTINE.  
ERROR ADR IS THE EXIT FROM THE FAILING ROUTINE TO  
9DEPR.

#### H. COMMENTS

##### 1. TWO POST RESTARTS ARE USED IN THIS PROGRAM. DURING WRITE THE RESTART WILL RETURN TO THE BEGINNING OF

THE WRITE SECTION AND DURING READ TO THE BEGINNING OF THE READ SECTION.

ANY TIME THE CONSOLE IS RESET, PRESSING START WILL TRANSFER THE PROGRAM TO BEGIN TESTING THE CURRENT FRAME.

2. ONE OF THE MOST IMPORTANT FUNCTIONS OF THE ERROR PRINT OUT IS THE ERROR ADR. BY REFERRING TO THIS ADDRESS IN THE PROGRAM LISTING. THE ROUTINE WHICH FAILED MY BE LOCATED. BY ANALYZING THE ROUTINE WITH THE AID OF THE PROGRAM COMMENTS. IT IS HOPED THE CUSTOMER ENGINEER WILL BE ABLE TTO DETERMINE THE MANNER IN WHICH THE MACHINES FAILED AND SO HAVE SUFFICIENT INFORMATION TO DIAGNOSE THE CAUSE OF THE MALFUNCTION.

J. TABLE OF TEST ROUTINES AND ADDRESSES OF ENTRY  
IN ORDER OF PERFORMANCE

- |    |                          |           |       |
|----|--------------------------|-----------|-------|
| 1. | WRITE RANDOM BINARY RECS | BEGINS AT | 00066 |
| 2. | READ CHECK RANDOM RECS   | BEGINS AT | 00153 |

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## 729 TAPE FRAME INTERCHANGEABILITY TEST

				00030		ORG 24	
00030	0761	00	0	00000		NOP	
00031	0760	00	0	00163	AA	SWT 3	
00032	0020	00	0	00034		TRA *+2	TO PRINT OUT IDENTITY
00033	0020	00	0	00035		TRA *+2	BYPASS PRINT
00034	0074	00	4	00365	IDN	TSX PRID,4	GO TO PRINT TEST IDENTITY
00035	0074	00	4	05514		TSX IOC,4	ENTER ON KEY IN THE USUAL MANNER, I-O CONTROL WORDS CALLING FOR 1 TAPE FRAME ON EACH CHN DESIRED TO BE TESTED
00036	0074	00	4	05513	RUC	TSX IOCNT,4	GO TO RESET UNIT COUNT
00037	0500	00	0	05500	INTL	CLA CTRL1	
00040	0120	00	0	00044		TPL *+4	CHECK IF PROGRAM READ FROM CARDS
00041	0500	00	0	00524		CLA WTBA1	YES - L WTBA 1
00042	0601	00	0	00527		STO WTB	
00043	0020	00	0	00050		TRA *+5	
00044	0500	00	0	00525		CLA WTBA2	NOT READ FROM CARDS -
00045	0601	00	0	00527		STO WTB	SET WTBA 2
00046	0500	00	0	00526		CLA RTB	L RTBA 1
00047	0601	00	0	00360		STO FINL1	
00050	0500	00	0	05504		CLA CTRA	CHECK FOR CHN A UNIT
00051	0100	00	0	00355		TZE TCTX	NO UNIT -
00052	0500	00	0	00106		CLA B21+1	L WTB CURRENT UNIT
00053	0340	00	0	00527		CAS WTB	
00054	0020	00	0	00056		TRA *+2	
00055	0020	00	0	00061		TRA *+4	
00056	0074	00	4	05512		TSX CTX,4	
00057	0003	46	0	00065		HTR B19-1,0,PASS+1	MODIFCATION AREA
00060	0020	00	0	00052		TRA *-6	
00061	0500	00	0	00065		CLA *+4	L TRA B19
00062	0601	00	0	00000		STO 0	POST RESTART FOR WRITE
00063	0760	00	0	00166		SWT 6	
00064	0000	00	0	00063		HTR *-1	
00065	0020	00	0	00066		TRA B19	

\*

SENSE SWITCH 6 MUST BE DOWN TO CHECK MULTIPLE FRAMES. AS  
 \* LONG AS SENSE SWITCH 6 IS DOWN THE PROGRAM WILL HALT AFTER  
 \* EACH FRAME IS READ AND CHECKED TO PERMIT CHANGING FRAMES.  
 \* PRESS START TO CONTINUE. AS LAST FRAME IS CHECKED SENSE  
 \* SWITCH 6 MAY BE RAISED TO CALL IN THE NEXT PROGRAM.

\* WRITE 400 RANDOM BINARY RECORDS

00066	0772	00	0	01201	B19	REWA 1	
00067	0534	00	1	00545		LXA K3+4,1	L10
00070	-0500	00	1	00603		CAL K10+8,1	INITIALIZE RANDOM
00071	0602	00	1	00613		SLW K11+8,1	GENERATOR
00072	2	00001	1	00070		TIX *-2,1,1	
00073	0020	00	0	00075		TRA B20	
00074	666322216001					BCD 1WTBA 1	
00075	0534	00	2	00530	B20	LXA K2,2	L NO OF RECORDS IN XRB
00076	0534	00	2	00530		LXA K2,2	L +400
00077	0500	00	0	00530		CLA K2	L NUMBER OF RECORDS
00100	0400	00	0	00377		ADD ONE	L +1
00101	0601	00	0	06557		STO RECNO	
00102	0022	00	0	00103	B21A	TRCA *+1	TURN REDUNDANCY TAPE CHECK OFF
00103	0760	00	0	00005		IOT	TURN INPUT-OUTPUT CHECK
00104	0020	00	0	00105		TRA *+1	LIGHT OFF
00105	0074	00	4	00304	B21	TSX GEN1,4	TO GENERATE RANDOM BINARY RECORDS
00106	0766	00	0	01221		WTBA 1	WRITE RANDOM BINARY RECORDS
00107	0022	00	0	00110		TRCA *+1	TURN OFF TRC IND IF ON
00110	0540	00	0	00415		RCHA CT10	TRANSFER REC TO TAPE
00111	-0060	00	0	00113		TCNA B23	DELAY BEFORE DISCONNECT UNIT SHOULD NOT BE IN OPERATION
00112	0060	00	0	00111		TCOA *-1	
00113	0074	00	4	06560	B23	TSX RDNCK,4	REDUNDANCY CHECK
00114	0020	00	0	00075		TRA B20	IF A TAPE CHECK OCCURS THERE WILL BE NO ATTEMPT TO REWRITE THE RECORD
00115	0500	00	0	00612		CLA K11+7	
00116	0760	00	0	00001		LBT	
00117	0020	00	0	00151		TRA B29	DO NOT BACKSPACE READ
00120	0020	00	0	00122		TRA B25	
							BACKSPACE READ AFTER WRITING CURRENT LAST RECORD
00121	516322216001					BCD 1RTBA 1	
00122	0761	00	0	00000	B25	NOP	
00123	0764	00	0	01201		BSRA 1	
00124	0762	00	0	01221		RTBA 1	READ RECORD WRITTEN
00125	0540	00	0	00417		RCHA CT12	
00126	-0060	00	0	00130		TCNA B26	
00127	0020	00	0	00126		TRA *-1	

00130	0074	00	4	06560	B26	TSX RDNCK,4	CHECK REDUNDANCY TAPE
00131	0020	00	0	00122		TRA B25	CHECK
00132	0074	00	4	00327		TSX GEN3,4	
00133	0534	00	1	00517		LXA WDCT,1	WORD COUNT
00134	0500	00	0	00517		CLA WDCT	L NUMBER OF WORDS
00135	0400	00	0	00377		ADD ONE	L +1
00136	0601	00	0	06556		STO WDNO	
00137	0500	00	1	00000	B27	CLA 0,1	WRFLD
00140	0560	00	1	00000		LDQ 0,1	RDFLDT
00141	0340	00	1	00000		CAS 0,1	
00142	0020	00	0	00144		TRA *+2	COMPARISON ERROR
00143	0020	00	0	00146		TRA *+3	
00144	0074	00	4	06502		TSX ERROR-2,4	COMPARISON ERROR
00145	0020	00	0	00122		TRA B25	
00146	2	00001	1	00137		TIX B27,1,1	DECEMENT WORD NUMBER
00147	-0760	00	0	01000	B28	ETTA	PHYSICAL END OF TAPE TEST
00150	0020	00	0	00066		TRA B19	
00151	2	00001	2	00102	B29	TIX B21A,2,1	DECEMENT RECORD NUMBER
00152	0770	00	0	01201		WEFA 1	WRITE END OF FILE
* REWIND AND READ VARIABLE LENGTH BINARY RECORDS							
00153	0534	00	1	00545		LXA K3+4,1	L10
00154	-0500	00	1	00603		CAL K10+8,1	INITIALIZE RANDOM
00155	0602	00	1	00613		SLW K11+8,1	GENERATOR
00156	2	00001	1	00154		TIX *-2,1,1	
00157	0020	00	0	00161		TRA B30	
00160	516322216001					BCD 1RTBA 1	
00161	0772	00	0	01201	B30	REWA 1	
00162	0060	00	0	00162		TCOA *	DELAY
00163	0760	00	0	00005		IOT	TURN IOT IND OFF IF ON
00164	0761	00	0	00000		NOP	
00165	0500	00	0	00301		CLA B37A+4	L TRA B30-6
00166	0601	00	0	00000		STO 0	POST RESTART FOR READ
00167	0534	00	2	00530	B31	LXA K2,2	L +1000
00170	0500	00	0	00530		CLA K2	L NUMBER OF RECORDS
00171	0400	00	0	00377		ADD ONE	L +1
00172	0601	00	0	06557		STO RECNO	
00173	0074	00	4	00304	B31A	TSX GEN1,4	GENERATE RANDOM RECORD
00174	0022	00	0	00175		TRCA *+1	TURN OFF RDNCY IND IF ON
00175	0762	00	0	01221		RTBA 1	READ TAPE BINARY
00176	0540	00	0	00417		RCHA CT12	TRANSFER CONTROL WORD

00177	-0060	00	0	00201		TCNA B34	TO BUFFER
00200	0020	00	0	00177		TRA *-1	TRA WITH CHAN NOT IN OPN
00201	0074	00	4	06560	B34	TSX RDNCK,4	
00202	0020	00	0	00161		TRA B30	
00203	0074	00	4	00327		TSX GEN3,4	FORM COMPARE ADDRESSES
00204	0534	00	1	00517		LXA WDCT,1	WORD COUNT
00205	0500	00	0	00517		CLA WDCT	L NUMBER OF WORDS
00206	0400	00	0	00377		ADD ONE	L +1
00207	0601	00	0	06556		STO WDNO	
00210	0500	00	1	00000	B35	CLA 0,1	WORD WRITTEN
00211	0560	00	1	00000		LDQ 0,1	WORD READ
00212	0340	00	1	00000		CAS 0,1	AND COMPARE
00213	0020	00	0	00215		TRA B36	ERROR
00214	0020	00	0	00220		TRA B36+3	
00215	0074	00	4	06502	B36	TSX ERROR-2,4	
00216	0020	00	0	00161		TRA B30	
00217	0760	00	0	00142		SLN 2	TURN ON SL2 ON ERROR
00220	2	00001	1	00210		TIX B35,1,1	DECREASE WORD COUNT BY 1
00221	-0760	00	0	00142		SLT 2	TEST SL2
00222	0020	00	0	00251		TRA B36B	OFF
00223	-0500	00	0	00612		CAL K11+7	
00224	-0760	00	0	00001		PBT	
00225	0020	00	0	00251		TRA B36B	DO NOT BACKSPACE READ
*						BACKSPACE READ AFTER READING	
*						CURRENT LAST RECORD	
00226	0764	00	0	01201		BSRA 1	
00227	0762	00	0	01221		RTBA 1	
00230	0540	00	0	00417		RCHA CT12	
00231	0060	00	0	00231		TCOA *	DELAY
00232	0074	00	4	06560		TSX RDNCK,4	CHECK REDUNDANCY
00233	0761	00	0	00161		NOP B30	
00234	0074	00	4	00327		TSX GEN3,4	
00235	0534	00	1	00517		LXA WDCT,1	
00236	0500	00	0	00517		CLA WDCT	
00237	0400	00	0	00377		ADD ONE	L +1
00240	0601	00	0	06556		STO WDNO	
00241	0500	00	1	00000	B36A	CLA 0,1	
00242	0560	00	1	00000		LDQ 0,1	
00243	0340	00	1	00000		CAS 0,1	
00244	0020	00	0	00246		TRA *+2	
00245	0020	00	0	00250		TRA *+3	
00246	0074	00	4	06502		TSX ERROR-2,4	COMPARISON ERROR
00247	0761	00	0	00161		NOP B30	
00250	2	00001	1	00241		TIX B36A,1,1	DECREMENT WORD NUMBER
00251	2	00001	2	00173	B36B	TIX B31A,2,1	DECREMENT RECORD NUMBER
00252	0020	00	0	00254		TRA B37	GO TO READ NEXT VARIABLE



## LENGTH BINARY RECORD

00253	662526216001		BCD 1WEFA 1	
00254	0762 00 0 01221	B37	RTBA 1	
00255	0540 00 0 00546		RCHA K4	
00256	0060 00 0 00256		TCOA *	DELAY
00257	0640 00 0 00550		SCHA K4+2	DSC CONTROL WORD
00260	0560 00 0 00552		LDQ K4+4	
00261	0500 00 0 00550		CLA K4+2	
00262	0340 00 0 00552		CAS K4+4	
00263	0020 00 0 00265		TRA *+2	ERROR
00264	0020 00 0 00275		TRA B37A	SHOULD XFER
00265	0340 00 0 00551		CAS K4+3	
00266	0020 00 0 00270		TRA *+2	
00267	0020 00 0 00273		TRA *+4	
00270	0074 00 4 06503		TSX ERROR-1,4	FAILURE TO DISCN CORRECTLY OR FAILED TO SCH CORRECTLY
00271	0761 00 0 00254		NOP B37	
00272	0020 00 0 00275		TRA B37A	
00273	0074 00 4 06503		TSX ERROR-1,4	FALSE EOR READ AT EOF
00274	0761 00 0 00254		NOP B37	
00275	0030 00 0 00300	B37A	TEFA *+3	EOF SHOULD BE ON
00276	0074 00 4 06503		TSX ERROR-1,4	FAILED TO READ EOF
00277	0761 00 0 00254		NOP B37	
00300	0074 00 4 06511		TSX OK,4	
00301	0020 00 0 00153		TRA B30-6	
00302	0761 00 0 00000		NOP	
00303	0020 00 0 00345		TRA PASS	

## RANDOM BINARY GENERATOR

00304	0560 00 0 00612	GEN1	LDQ K11+7	RANDOM NUMBER GENERATOR
00305	0500 00 0 00376		CLA ZERO	CLEAR ACC
00306	-0763 00 0 00011		LGL 9	
00307	0400 00 0 00541		ADD K3	L+1
00310	0734 00 1 00003		PAX 3,1	FORM NO.OF WORDS PER REC
00311	0634 00 1 00517		SXA WDCT,1	SET UP WORD COUNT IN
00312	-0634 00 1 00415		SXD CT10,1	
00313	-0634 00 1 00417		SXD CT12,1	
00314	0401 00 0 00542		ADM K3+1	INITIAL ADDR OF WR FLD
00315	0621 00 0 00323		STA GEN2+2	
00316	0754 00 1 00000		PXA 0,1	
00317	0400 00 0 00544		ADD K3+3	START OF RANDOM NO. FLD
00320	0621 00 0 00322		STA GEN2+1	
00321	-0500 00 0 00612	GEN2	CAL K11+7	GENERATE N-RANDOM WORDS
00322	0401 00 1 00000		ADM 0,1	
00323	0602 00 1 00000		SLW 0,1	
00324	2 00001 1 00322		TIX *-2,1,1	
00325	0602 00 0 00612		SLW WRFLD-1	
00326	0020 00 4 00001		TRA 1,4	EXIT
00327	0500 00 0 00542	GEN3	CLA K3+1	INITIAL ADDR WRITE FIELD
00330	0400 00 0 00517		ADD WDCT	WORD COUNT
00331	0621 00 0 00137		STA B27	

00332	0621	00	0	00210		STA B35	
00333	0621	00	0	00241		STA B36A	
00334	0500	00	0	00543		CLA K3+2	INITIAL ADDR READ FIELD
00335	0400	00	0	00517		ADD WDCT	
00336	0621	00	0	00140		STA B27+1	
00337	0621	00	0	00141		STA B27+2	
00340	0621	00	0	00211		STA B35+1	
00341	0621	00	0	00212		STA B35+2	
00342	0621	00	0	00242		STA B36A+1	
00343	0621	00	0	00243		STA B36A+2	
00344	0020	00	4	00001		TRA 1,4	CONTINUE PROGRAM
00345	0772	00	0	01201	PASS	REWA 1	REWIND TEST FRAME
00346	0760	00	0	00163		SWT 3	TEST SENSE SWITCH 3
00347	0020	00	0	00371		TRA PRT1	GO TO PRINT PASS COMPLETE
00350	0760	00	0	00166	FINL	SWT 6	
00351	0020	00	0	00360		TRA FINL1	
00352	0760	00	0	00165		SWT 5	
00353	0020	00	0	00355		TRA TCTX	
00354	0000	00	0	00153		HTR B30-6	
* REMOVE TAPE REEL FROM FRAME 1 AND PLACE IT ON NEXT FRAME TO BE							
* TESTED. SET DIAL OF NEW TEST FRAME TO 1 AND PASS FRAME TO 0.							
* PRESS START							
00355	0074	00	4	05512	TCTX	TSX CTX,4	
00356	0003	46	0	00065		HTR B19-1,0,PASS+1	MODIFICATION AREA
00357	0020	00	0	00066		TRA B19	
00360	0762	00	0	01321	FINL1	RCDA	SELECT CARD READER
00361	0540	00	0	00364		RCHA FNLX	READ IN
00362	0544	00	0	00000		LCHA 0	NEXT
00363	0020	00	0	00001		TRA 1	PROGRAM
00364	-1	00003	0	00000	FNLX	MON 0,0,3	
* PRINT - NOW PERFORMING DIAGNOSTIC TEST 9T04							
00365	0766	00	0	01361	PRID	WPRA 1	PRINT
00366	0760	00	0	01363		SPRA 3	DOUBLE SPACE
00367	0540	00	0	00411		RCHA CT1	TEST IDENTITY
00370	0020	00	4	00001		TRA 1,4	
* PRINT - 9T04 PASS COMPLETE							
00371	0766	00	0	01361	PRT1	WPRA 1	PRINT
00372	0760	00	0	01363		SPRA 3	DOUBLE SPACE
00373	0540	00	0	00413		RCHA CT2	PASS COMPLETE
00374	0020	00	0	00350		TRA FINL	

\*                   CONSTANT

00375	-3777777777777	ONES	OCT	-3777777777777	
00376	+0000000000000	ZERO	OCT	0000000000000	
00377	+0000000000001	ONE	OCT	+1	
00400	+0000000000002	TWO	OCT	+2	
00401	+0000000000003	THREE	OCT	+3	
00402	+0000000000004	FOUR	OCT	+4	
00403	+0000000000005	FIVE	OCT	+5	
00404	+0000000000006	SIX	OCT	+6	
00405	+0000000000007	SEVEN	OCT	+7	
00406	+0000000000010	EIGHT	OCT	+10	
00407	+0000000000011	NINE	OCT	+11	
00410	+0000000000012	TEN	OCT	+12	
00411	0000 30 0 00421	CT1	IOCD	PRIDN,0,24	
00412	0000 00 0 00000		HTR	0	PROGRAM PROTECT - I-O DISC
00413	0000 30 0 00451	CT2	IOCD	PR1,0,24	
00414	0000 00 0 00000		HTR	0	PROGRAM PROTECT - I-O DISC
00415	0000 00 0 00613	CT10	IOCD	WRFLD	CONTROL WORD FOR WRITING RANDOM BINARY
00416	0000 00 0 00000		HTR	0	RECORDS
00417	0000 00 0 01613	CT12	IOCD	RDFLD,0,0	CONTROL WORD FOR READ
00420	0000 00 0 00000		HTR		REC BINARY

\*    PRINT   -   NOW PERFORMING DIAGNOSTIC TEST 9T04

00421	+002241004010	PRIDN	OCT	+002241004010	9 ROW LEFT
00422	+0000000000000		OCT	+0	9 ROW RIGHT
00423	+0000000000000		OCT	+0000000000000	8 L
00424	+0000000000000		OCT	+0	
00425	+0100102000000		OCT	+0100102000000	7 L
00426	+0000000000000		OCT	+0	
00427	+1414000400000		OCT	+1414000400000	6 L
00430	+0000000000000		OCT	+0	
00431	+2040201002000		OCT	+2040201002000	5 L
00432	+0000000000000		OCT	+0	
00433	+0001020000001		OCT	+0001020000001	4 L
00434	+0000000000000		OCT	+0	
00435	+000000012444		OCT	+000000012444	3 L
00436	+0000000000000		OCT	+0	
00437	+0000000201000		OCT	+0000000201000	2 L
00440	+0000000000000		OCT	+0	
00441	+0000004000000		OCT	+0000004000000	1 L
00442	+0000000000000		OCT	+0	
00443	+040000030546		OCT	+040000030546	0 L
00444	+0000000000000		OCT	+0	
00445	+3127201400000		OCT	+3127201400000	11 L
00446	+0000000000000		OCT	+0	
00447	+0050536062000		OCT	+0050536062000	12 L
00450	+0000000000000		OCT	+0	

\*    PRINT   -   9T04    PASS COMPLETE

00451	+0100000000000	PR1	OCT +0100000000000	9 ROW LEFT
00452	+0000000000000		OCT +0	9 ROW RIGHT
00453	+0000000000000		OCT +0000000000000	8 L
00454	+0000000000000		OCT +0	
00455	+000010020000		OCT +000010020000	7 L
00456	+0000000000000		OCT +0	
00457	+000000100000		OCT +000000100000	6 L
00460	+0000000000000		OCT +0	
00461	+000000005000		OCT +000000005000	5 L
00462	+0000000000000		OCT +0	
00463	+001000040000		OCT +001000040000	4 L
00464	+0000000000000		OCT +0	
00465	+004000212000		OCT +004000212000	3 L
00466	+0000000000000		OCT +0	
00467	+000003000000		OCT +000003000000	2 L
00470	+0000000000000		OCT +0	
00471	+000004000000		OCT +000004000000	1 L
00472	+0000000000000		OCT +0	
00473	+006003002000		OCT +006003002000	0 L
00474	+0000000000000		OCT +0	
00475	+000010170000		OCT +000010170000	11 L
00476	+0000000000000		OCT +0	
00477	+000004205000		OCT +000004205000	12 L
00500	+0000000000000		OCT +0	
00501	+0000000000000	CONST	OCT 0000000000000	
00502	+000000000100		OCT 000000000100	
00503	+000000000172		OCT 000000000172	
00504	+000000000440		OCT 000000000440	
00505	+0000000000000		OCT 0000000000000	
00506	+0000000000000		OCT 0000000000000	
00507	+0000000000000	XRA	OCT 0	
00510	+0000000000000	XRB	OCT 0	
00511	+0000000000000	XRC	OCT 0	
00512	+0000000000000	TEMP	OCT	
00513	+0000000000000	TEMP1	OCT 0000000000000	
00514	+0000000000000	TEMP2	OCT 0000000000000	
00515	+0000000000000	TEMP3	OCT 0000000000000	
00516	0000 07 0 01613		HTR RDFLD,0,7	
00517	+0000000000000	WDCT	OCT	
00520	+0000000000000		OCT	INITIAL WR ADDR + COUNT
00521	+0000000000000	IOCTT	OCT +0	TAPE FRAME COUNT
00522	+000000000760	CTR1	OCT +760	
00523	+000000076000	CTR2	OCT +76000	
00524	0766 00 0 01221	WTBA1	WTBA 1	
00525	0766 00 0 01222	WTBA2	WTBA 2	
00526	0762 00 0 01221	RTB	RTBA 1	
00527	+0000000000000	WTB	OCT 0	

00530	+000000000400	K2	OCT +400	RANDOM RECORD COUNT
00531	+000000000622		OCT 622	
00532	+000000000300		OCT 300	
00533	+000000000060		OCT 60	
00534	+000000000026		OCT +26	
00535	0020 00 0 00031		TRA AA	REPEAT PROGRAM
00536	+000000000400		OCT +400	
00537	+000000007000		OCT +7000	
00540	+000000000375		OCT +375	
00541	+000000000001	K3	OCT +1	
00542	0000 00 0 00613		HTR WRFLD	
00543	0000 00 0 01613		HTR RDFLD	
00544	0000 00 0 00603		HTR K11	
00545	+000000000010		OCT 10	
00546	2 00036 0 01613	K4	PTW RDFLD,0,30	TRIGGER 1 ON
00547	0 00000 0 00547		PZE K4+1	NO TRIGGERS ON
00550	0000 00 0 00000		HTR	
00551	0 00550 0 00547		PZE K4+1,0,K4+2	
00552	2 00547 0 01613		IORP RDFLD,0,K4+1	
00553	+000000004043	K5	OCT 00000004043	
00554	+000000000017	K6	OCT +17	
00555	+000000001000		OCT +1000	
00556	+000000001001		OCT +1001	
00557	+000000000100		OCT +100	
00560	+000000000101		OCT +101	
00561	+000000000036		OCT +36	
00562	+000000000020		OCT +20	
00563	+000000000102		OCT +102	
00564	+377777777767	K8	OCT +37777777767	
00565	-343677616030		OCT -343677616030	MASK FOR PASS PRINT
00566	+012301230123	K9	OCT +012301230123	
00567	+171717171717		OCT +171717171717	
00570	+175757575757		OCT +175757575757	
00571	+121212121212		OCT +121212121212	
00572	+125252525252		OCT +125252525252	
00573	-331011416132	K10	OCT -331011416132	
00574	+033420275437		OCT +033420275437	
00575	-126044765051		OCT -126044765051	
00576	-202037467555		OCT +602037467555	
00577	-305552746526		OCT -305552746526	
00600	-134703564071		OCT -134703564071	
00601	+364271003007		OCT +364271003007	
00602	+060203746526		OCT +60203746526	
	00603	K11	EQU K10+8	
	00613	WRFLD	EQU K11+8	
	01613	RDFLD	EQU WRFLD+512	
	06504	ERROR	EQU 3396	
	06511	OK	EQU 3401	
	06560	RDNCK	EQU 3440	
	06556	WDNO	EQU 3438	
	06557	RECNO	EQU 3439	

05500	CTRL1	EQU	2880
05504	CTRA	EQU	2884
05512	CTX	EQU	2890
05513	IOCNT	EQU	2891
05514	IOC	EQU	2892
00000		END	

EOF\*