

.TITLE RS0915 TEST FOR SYSTEM EXERCISER

/REV. DATE 4/15/71 -- (1)

.EBREL

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00000 R 600023 A UODSW 600023
00001 R 000000 A UOD1 0
00002 R 000000 A UOD2 0
00003 R 000000 A UOD3 0
00004 R 000471 R .DSA DSKITR
00005 R 000031 R .DSA DSKBGN
00006 R 222360 A .SIXBT 'RS0915'
00007 R 716165 A
00010 R 000004 A 4
00011 R A .BLOCK 7
00020 R 000000 A ASYSER 0
00021 R 000000 A ERWDC 0
00022 R 000000 A ERW1 0
00023 R 000000 A ERW2 0
00024 R 000000 A ERW3 0
00025 R 000000 A ERW4 0
00026 R 000000 A ERW5 0
00027 R 000000 A 0
00030 R 777000 A BSIZ LAW -1000

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/TRACK # (BITS 0-6) *** BIT 17=1, INHIBIT DCH ERROR RECOGNITION
/ DATA PATTERN
/ #TIMES TO LOOP 0=1

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/MASK FOR CHAIN MODE

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/ERROR INDICATOR
/WORD COUNT
/DISK, TRACK, ERROR CODE
/STATUS REGISTER
/ERROR DATA WORDS
/
/

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707064 A DLAH=707064
707024 A DLAL=707024
707062 A DRAH=707062
707022 A DRAL=707022
707021 A DSCC=707021
707041 A DSCF=707041
707044 A DSCN=707044
707242 A DSCS=707242
707042 A DSFX=707042
707262 A DSRS=707262
707001 A DSSF=707001
707764 A EBA=707764
707702 A EEM=707702
.EJECT

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/LOAD DISK NUMBER FROM AC
/LOAD AC INTO ADDRESS POINTER
/READ DISK NUMBER INTO AC.
/OR ADDRESS POINTER INTO AC
/CLEAR CONTROL & UNFREEZE
/CLEAR FUNCTION REGISTER, INTERRUPT MODE
/EXECUTE FUNCTION
/CLEAR STATUS REGISTER AND FLAG
/XOR AC INTO FUNCTION REGISTER
/OR STATUS REG INTO AC
/SKIP IF DISK FLAG

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00031 R 000000 A DSKBGN 0
00032 R 707764 A EBA
00033 R 707702 A EEM
00034 R 140020 R DZM ASYSER
00035 R 140021 R DZM ERWDC
00036 R 145223 R DZM DSTSW1#
00037 R 145225 R DZM ERSW#
00040 R 200031 R LAC DSKBGN /SET EXIT ADDRESS
00041 R 040471 R DAC DSKITR /INTO INTERRUPT EXIT.
00042 R 140134 R DZM DCTR /SET DISK TO 0.
00043 R 140234 R DZM TCTR /SET TRACK TO 0.
00044 R 141036 R DZM RSAC
00045 R 200000 R LAC UODSW /CHECK IF LOOPING REQUESTED.
00046 R 505231 R AND (100000
00047 R 741200 A SNA
00050 R 600100 R JMP DBG1A /NO LOOPING, GO TO RUN ALL.
00051 R 200003 R LAC UOD3
00052 R 740001 A CMA
00053 R 041041 R DAC LTLY /SET TALLY TO NUMBER OF LOOPS.
00054 R 200001 R LAC UOD1
00055 R 505232 R AND (774000
00056 R 041042 R DAC ITCTR /SET TRACK NUMBER
00057 R 200000 R LAC UODSW
00060 R 505233 R AND (070000
00061 R 744000 A CLL
00062 R 742010 A RTL
00063 R 742010 A RTL
00064 R 742010 A RTL
00065 R 740010 A RAL
00066 R 040134 R DAC DCTR /SET DISK NUMBER
00067 R 205234 R LAC (NOP
00070 R 040120 R DAC DSKSW-1 /SET SWITCHES
00071 R 040123 R DAC DSK2+1 /FOR LOOPING MODE
00072 R 040236 R DAC INCT+1 /ONE DISK, ONE TRACK
00073 R 200000 R LAC UODSW
00074 R 505235 R AND (003700 /CHECK TEST #
00075 R 740200 A SZA /IF NOT EQUAL ZERO
00076 R 605054 R JMP LOOP /GO TO SELECT TEST AND LOOP,
00077 R 600110 R JMP DBG2 /ELSE LOOP ON THIS DISK, AND TRACK WITH TEST 1,2,3.
/NO LOOPING SET SWITCHES
/TO RUN ALL DISKS, ALL TRACKS
/
00100 R 205236 R DBG1A LAC (SNA
00101 R 040120 R DAC DSKSW-1
00102 R 205237 R LAC (SKP
00103 R 040123 R DAC DSK2+1
00104 R 040236 R DAC INCT+1
00105 R 777777 A DBG1 LAW -1 /NO LOOPING. SET LOOPS TO 1
00106 R 041041 R DAC LTLY
00107 R 141042 R DZM ITCTR
00110 R 200135 R DBG2 LAC DSW1 /SET SWITCH TO DO
00111 R 040121 R DAC DSKSW /TEST1 FIRST.
.EJECT

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00112 R 707021 A DSK1 DSCC /CLEAR DISK CONTROL
00113 R 200134 R LAC DCTR
00114 R 707064 A DLAH /LOAD DISC NUMBER
00115 R 750000 A CLA
00116 R 707262 A DSR5 /GET STATUS REGISTER
00117 R 505240 R AND (002000 /CHECK NON-EXISTENT DISK BIT.
00120 R 741200 A SNA /IF "NED" BIT IS ZERO (NOP HERE IF LOOPING)
00121 R 740040 A DSKSW HLT /GO TO TEST1 OR TEST2
/ELSE TRY NEXT DISK NUMBER

00122 R 707021 A DSK2 DSCC
00123 R 741000 A SKP /NOP HERE IF LOOPING
00124 R 600140 R DSK3 JMP DSK3 /LOOPING GO TO NEXT SWITCH.
00125 R 200134 R DSK2A LAC DCTR /INCREMENT DISK COUNTER
00126 R 345241 R TAD (+1
00127 R 505242 R AND (7
00130 R 040134 R DAC DCTR /
00131 R 741200 A SNA /IF BACK TO ZERO,
00132 R 600140 R JMP DSK3 /TRY NEXT TEST,
00133 R 600112 R JMP DSK1 /ELSE TRY THIS DISK NUMBER.
00134 R 000000 A DCTR 0
00135 R 600156 R DSW1 JMP TEST1
00136 R 600175 R DSW2 JMP TEST2
00137 R 600214 R DSW3 JMP TEST3
00140 R 200121 R DSK3 LAC DSKSW
00141 R 540135 R SAD DSW1
00142 R 600150 R JMP DSK4
00143 R 540136 R SAD DSW2
00144 R 600153 R JMP DSK5
00145 R 441041 R ISZ LTLY /CHECK IF LOOPS COMPLETED.
00146 R 600110 R JMP DBG2
00147 R 600440 R JMP ENDT
00150 R 200136 R DSK4 LAC DSW2 /TURN ON TEST2
00151 R 040121 R DAC DSKSW
00152 R 600112 R JMP DSK1
00153 R 200137 R DSK5 LAC DSW3 /TURN ON TEST3.
00154 R 040121 R DAC DSKSW
00155 R 600112 R JMP DSK1

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00156	R	201042	R	TEST1	LAC	ITCTR	/RESET TRACK NUMBER TO INITIAL
00157	R	040234	R		DAC	TCTR	
00160	R	100270	R	DSKWR	JMS	DORNDM	/SET UP RANDOM NUMBER RECORD
00161	R	205243	R		LAC	(+100	
00162	R	105176	R		JMS	SETUOD	
00163	R	100246	R		JMS	DOIO	/ISSUE WRITE IOT.
00164	R	000005	A		5		
00165	R	100457	R		JMS	DSKXIT	/RETURN TO MONITOR. /WAIT FOR INTERUPT /WHEN INTERUPT HAS BEEN /PROCESSED, RETURN TO HERE.
00166	R	205244	R		LAC	(+200	
00167	R	105176	R		JMS	SETUOD	
00170	R	100246	R		JMS	DOIO	/ISSUE WRITE CHECK IOT.
00171	R	000007	A		7		
00172	R	100457	R		JMS	DSKXIT	/RETURN TO MONITOR, WAIT FOR INTERUPT. /INTERUPT RETURNS TO HERE.
00173	R	100235	R		JMS	INCT	/GET NEXT TRACK NUMBER.
00174	R	600160	R		JMP	DSKWR	/RECYCLE.
00175	R	201042	R	TEST2	LAC	ITCTR	
00176	R	040234	R		DAC	TCTR	
00177	R	101000	R	DSKRD	JMS	CALPT	/GET ADDRESS AND MASK
00200	R	221022	R		LAC*	TBLPTR	/FOR CHECK OF WRITE LOCK-OUT
00201	R	501023	R		AND	TKBIT	/FOR THIS TRACK.
00202	R	740200	A		SZA		/SKIP IF NOT LOCKED-OUT.
00203	R	600212	R		JMP	DSKRD1	/TRY NEXT TRACK.
00204	R	205245	R		LAC	(+300	
00205	R	105176	R		JMS	SETUOD	
00206	R	100246	R		JMS	DOIO	/ISSUE READ IOT
00207	R	000003	A		3		
00210	R	100457	R		JMS	DSKXIT	/RETURN TO MONITOR, WAIT /FOR INTERUPT, DO INTERUPT /PROCESSING THEN RETURN HERE. /CHECK RECORD, RETURN IF OK, /OR AFTER SETTING UP ERROR MSG.
00211	R	100270	R		JMS	DORNDM	/GET NEXT TRACK NUMBER
00212	R	100235	R	DSKRD1	JMS	INCT	/RECYCLE.
00213	R	600177	R		JMP	DSKRD	
					.EJECT		

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00214 R 201042 R TEST3 LAC ITCTR
00215 R 040234 R DAC TCTR
00216 R 205246 R LAC (252525
00217 R 105161 R JMS FILRCD /FILL RECORD WITH ALTERNATE PATTERN
00220 R 205247 R TST3A LAC (+400
00221 R 105176 R JMS SETUOD
00222 R 100246 R JMS DOIO /DO WRITE
00223 R 000005 A 5
00224 R 100457 R JMS DSKXIT /RETURN TO MONITOR
00225 R 205250 R LAC (+500
00226 R 105176 R JMS SETUOD
00227 R 100246 R JMS DOIO /DO WRITE CHECK
00230 R 000007 A 7
00231 R 100457 R JMS DSKXIT /RETURN TO MONITOR
00232 R 100235 R JMS INCT
00233 R 600220 R JMP TST3A

/
/
00234 R 000000 A TCTR 0
00235 R 000000 A INCT 0 /INCREMENT TRACK COUNTER.
00236 R 741000 A SKP /NOP HERE IF LOOPING
00237 R 600122 R JMP DSK2
00240 R 200234 R LAC TCTR
00241 R 345251 R TAD (004000
00242 R 040234 R DAC TCTR
00243 R 741200 A SNA
00244 R 600122 R JMP DSK2 /IF ALL TRACKS DONE(=0)
00245 R 620235 R JMP* INCT /GO TO GET NEXT DISK NUMBER.
.EJECT /EXIT.

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00246	R	000000	A	DOIO	0		
00247	R	707021	A		DSCC		/CLEAR DISK CONTROL
00250	R	200134	R		LAC	DCTR	
00251	R	707064	A		DLAH		/SELECT DISK NUMBER.
00252	R	200234	R		LAC	TCTR	
00253	R	707024	A		DLAL		
00254	R	774000	A		LAW	=4000	
00255	R	061034	R		DAC*	WC	/SET UP WORDS TO READ.
00256	R	200373	R		LAC	BUFFER	
00257	R	345252	R		TAD	(-1	
00260	R	061035	R		DAC*	CA	/SET UP ADDRESS OF 1ST WORD.
00261	R	100306	R		JMS	HOLD	
00262	R	220246	R		LAC*	DOIO	
00263	R	045226	R		DAC	SAVFCT#	
00264	R	707041	A		DSCF		/CLEAR FUNCTION REGISTER
00265	R	707042	A		DSFX		/SET FUNCTION REGISTER
							/EXECUTE IOT AT EXIT
00266	R	440246	R		ISZ	DOIO	
00267	R	620246	R		JMP*	DOIO	/EXIT.
00270	R	000000	A	DORNDM	0		/GENERATE RANDOM DATA
00271	R	200373	R		LAC	BUFFER	/BASED ON TCTR & DCTR
00272	R	040374	R		DAC	BFR	/AS 1ST VALUE.
00273	R	200134	R		LAC	DCTR	
00274	R	744000	A		CLL		
00275	R	742010	A		RTL		
00276	R	740010	A		RAL		
00277	R	340234	R		TAD	TCTR	
00300	R	040376	R		DAC	RANSAV	/SET 1ST VALUE IN RANDOM GENERATOR
00301	R	140375	R		DZM	RANCON	
00302	R	200030	R		LAC	BSIZ	
00303	R	045222	R		DAC	DRN4#	
00304	R	600315	R		JMP	DRN1	
00305	R	000000	A	TLY	0		
00306	R	000000	A	HOLD	0		
00307	R	750004	A		LAS		
00310	R	505253	R		AND	(4)	
00311	R	741200	A		SNA		
00312	R	620306	R		JMP*	HOLD	
00313	R	100377	R		JMS	BREAK	
00314	R	600307	R		JMP	.-5	
					.EJECT		

00315	R	200121	R	DRN1	LAC	DSKSW	
00316	R	540135	R		SAD	DSW1	
00317	R	600344	R		JMP	DRN2	
00320	R	220374	R		LAC*	BFR	/COMPARE RECORD TO RANDOM
00321	R	540376	R		SAD	RANSAV	/DATA GENERATED.
00322	R	600346	R		JMP	DRN3	
00323	R	200020	R		LAC	ASYSER	/CHECK IF TYPEDOUT BUSY
00324	R	740200	A		SZA		
00325	R	600551	R		JMP	ERRFLG+3	/YES - SETUP WAIT
00326	R	220374	R		LAC*	BFR	/NO
00327	R	040024	R		DAC	ERW3	/BAD DATA
00330	R	200376	R		LAC	RANSAV	
00331	R	040025	R		DAC	ERW4	/GOOD DATA
00332	R	200373	R		LAC	BUFFER	/CALC WORD # IN ERROR
00333	R	740001	A		CMA		
00334	R	340374	R		TAD	BFR	
00335	R	345241	R		TAD	(+1	
00336	R	040026	R		DAC	ERW5	/STORE ERROR WORD #.
00337	R	205253	R		LAC	(4	
00340	R	100766	R		JMS	CALCDT	/SET DISK, TRACK, ERR #
00341	R	777773	A		LAW	=5	
00342	R	440457	R		ISZ	DSKXIT	
00343	R	600772	R		JMP	SETRNM	
00344	R	200376	R	DRN2	LAC	RANSAV	/FILL RECORD WITH RANDOM
00345	R	060374	R		DAC*	BFR	/DATA GENERATED
00346	R	200374	R	DRN3	LAC	BFR	
00347	R	345241	R		TAD	(+1	
00350	R	540372	R		SAD	BFRMAX	
00351	R	620270	R		JMP*	DORNDM	
00352	R	040374	R		DAC	BFR	
00353	R	445222	R		ISZ	DRN4	
00354	R	600360	R		JMP	+4	
00355	R	100377	R		JMS	BREAK	
00356	R	200030	R		LAC	BSIZ	
00357	R	045222	R		DAC	DRN4	
00360	R	744000	A		CLL		
00361	R	200376	R		LAC	RANSAV	
00362	R	340375	R		TAD	RANCON	
00363	R	040376	R		DAC	RANSAV	
00364	R	750010	A		GLK		
00365	R	340376	R		TAD	RANSAV	
00366	R	340375	R		TAD	RANCON	
00367	R	040375	R		DAC	RANCON	
00370	R	040376	R		DAC	RANSAV	
00371	R	600315	R		JMP	DRN1	

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00372	R	005054	R	BFRMAX	RECORD+4000		
00373	R	001054	R	BUFFER	RECORD		
00374	R	000000	A	BFR	0		
00375	R	000000	A	RANCON	0		
00376	R	000001	A	RANSAV	1		
00377	R	000000	A	BREAK	0		
00400	R	045221	R	DAC	BRKAC#		
00401	R	200020	R	LAC	ASYSER		
00402	R	741200	A	SNA			
00403	R	600406	R	JMP	.+3		
00404	R	777776	A	LAW	-2		
00405	R	600407	R	JMP	.+2		
00406	R	777773	A	LAW	-5		
00407	R	040020	R	DAC	ASYSER		
00410	R	777777	A	LAW	-1		
00411	R	045223	R	DAC	DSTSW1		
00412	R	600446	R	JMP	INTXIT		
00413	R	145223	R	/ BREAK1	DZM	DSTSW1	
00414	R	205221	R		LAC	BRKAC	
00415	R	703344	A		DBR		
00416	R	620377	R		JMP*	BREAK	
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00417 R 777777 A      NODFLG  LAW      -1
00420 R 041036 R      DAC      RSAC
00421 R 200020 R      LAC      ASYSER
00422 R 740200 A      SZA      /#0, IF NO ERROR BEING TYPED.
00423 R 600432 R      JMP      NDF1
00424 R 201024 R      LAC      SVDERR
00425 R 740200 A      SZA      /#0, IF NO ERROR SAVED
00426 R 600612 R      JMP      SUSVER /GO TO RESTORE SAVED ERROR.
00427 R 205223 R      LAC      DSTSW1
00430 R 740200 A      SZA
00431 R 600413 R      JMP      BREAK1
00432 R 205254 R      NDF1   LAC      (400000
00433 R 705501 A      SPI
00434 R 751001 A      SKP!CLA!CMA /CHECK IF API ACTIVE.
00435 R 600565 R      JMP      BADAPI /NO API, SET AC -1
00436 R 703344 A      DBR      /WRONG API ENTRY OCCURRED
00437 R 620471 R      JMP*     DSKITR /INTERUPT NOT FOR DISK
00440 R 707021 A      ENDT   DSCC
00441 R 200020 R      LAC      ASYSER
00442 R 741200 A      SNA
00443 R 140021 R      DZM     ERWDC
00444 R 777774 A      LAW      -4
00445 R 040020 R      DAC      ASYSER
00446 R 205254 R      INTXIT LAC      (400000
00447 R 705501 A      SPI
00450 R 600454 R      JMP      .+4 /API OFF
00451 R 201025 R      LAC      SAVAC /API ON, RESTORE AC
00452 R 703344 A      DBR
00453 R 620471 R      JMP*     DSKITR
00454 R 201036 R      LAC      RSAC /API OFF RESET AC TO 0 OR -1.
00455 R 600452 R      JMP      .-3
00456 R 620457 R      DONXIO JMP*     DSKXIT
00457 R 000000 A      DSKXIT 0
00460 R 205254 R      LAC      (400000
00461 R 705501 A      SPI
00462 R 600467 R      JMP      .+5 /API OFF
00463 R 201025 R      LAC      SAVAC /API ON - RESTORE AC
00464 R 703344 A      DBR
00465 R 707044 A      DSCN /EXECUTE IOT, SET UP IN DISK
00466 R 620471 R      JMP*     DSKITR
00467 R 201036 R      LAC      RSAC /SET AC = -1 OR 0
00470 R 600464 R      JMP      .-4
      .EJECT

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00471 R 000000 A DSKITR 0 /SHOULD GET MODIFIED IF
00472 R 707764 A EBA
00473 R 707702 A EEM
00474 R 041025 R DAC SAVAC /ENTRY FROM MONITOR OCCURS
00475 R 707001 A DSSF
00476 R 600417 R JMP NODFLG
00477 R 141036 R DZM RSAC
00500 R 205225 R LAC ERSW
00501 R 740200 A SZA
00502 R 740040 A ERRDIR XX
00503 R 141036 R DZM RSAC
00504 R 200234 R LAC TCTR /SET UP DISK
00505 R 744020 A CLLIRAR /AND TRACK
00506 R 340134 R TAD DCTR /NUMBER
00507 R 742020 A RTR /FOR TYPEOUT.
00510 R 742020 A RTR
00511 R 041037 R DAC DTW
00512 R 750000 A CLA
00513 R 707062 A DRAH /GET DISK NUMBER
00514 R 041026 R DAC DNUM
00515 R 750000 A CLA
00516 R 707022 A DRAL /GET TRACK NUMBER
00517 R 041027 R DAC TNUM
00520 R 707272 A DSRs+10 /GET STATUS REGISTER
00521 R 041030 R DAC STTREG
00522 R 707242 A DSCS /CLEAR FUNCTION REGISTER.
00523 R 707041 A DSCF
00524 R 200001 R DKR LAC UOD1
00525 R 740020 A RAR
00526 R 740400 A SNL
00527 R 600533 R JMP DKR2
00530 R 201030 R LAC STTREG
00531 R 505255 R AND (776400
00532 R 600535 R JMP DKR1
/
00533 R 201030 R DKR2 LAC STTREG
00534 R 505256 R AND (777400
/
00535 R 740200 A DKR1 SZA /SKIP IF NO ERROR
00536 R 600546 R JMP ERRFLG /GO TO PROCESS ERROR.
00537 R 200020 R LAC ASYSER
00540 R 740200 A SZA /SKIP IF NO ERROR BEING TYPED
00541 R 600456 R JMP DONXIO
00542 R 201024 R LAC SVDERR
00543 R 741200 A SNA /SKIP IF ERROR BEING SAVED
00544 R 600456 R JMP DONXIO
00545 R 600612 R JMP SUSVER /RESTORE ERROR
.EJECT

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00546	R	200020	R	ERRFLG	LAC	ASYSER	
00547	R	741200	A		SNA		
00550	R	600625	R		JMP	EDTER	
00551	R	201030	R		LAC	STTREG	/SAVE ERROR.
00552	R	041031	R		DAC	SVSTRG	
00553	R	201026	R		LAC	DNUM	
00554	R	041032	R		DAC	SVDN	
00555	R	201027	R		LAC	TNUM	
00556	R	041033	R		DAC	SVTN	
00557	R	201037	R		LAC	DTW	
00560	R	041040	R		DAC	SDTW	
00561	R	777776	A		LAW	-2	/SIGNAL MONITOR FOR ENTRY AFTER TYPEOUT.
00562	R	040020	R		DAC	ASYSER	
00563	R	441024	R		ISZ	SVDERR	
00564	R	600446	R		JMP	INTXIT	
00565	R	200020	R	BADAPI	LAC	ASYSER	
00566	R	741200	A		SNA		
00567	R	600577	R		JMP	EUBDAP	
00570	R	707021	A		DSCC		
00571	R	141024	R		DZM	SVDERR	
00572	R	777776	A		LAW	-2	
00573	R	040020	R		DAC	ASYSER	
00574	R	201025	R		LAC	SAVAC	
00575	R	703344	A		DBR		
00576	R	620471	R		JMP*	DSKITR	
00577	R	205257	R	EUBDAP	LAC	(6	/EDIT BAD API
00600	R	100766	R		JMS	CALCDT	
00601	R	777776	A		LAW	-2	
00602	R	040021	R		DAC	ERWDC	
00603	R	201030	R		LAC	STTREG	
00604	R	040023	R		DAC	ERW2	
00605	R	777775	A		LAW	-3	
00606	R	040020	R		DAC	ASYSER	
00607	R	201025	R		LAC	SAVAC	
00610	R	703344	A		DBR		
00611	R	620471	R		JMP*	DSKITR	

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00612	R	201031	R	SUSVER	LAC	SVSTRG	
00613	R	041030	R		DAC	STTREG	
00614	R	201032	R		LAC	SVDN	
00615	R	041026	R		DAC	DNUM	
00616	R	201033	R		LAC	SVTN	
00617	R	041027	R		DAC	TNUM	
00620	R	141024	R		DZM	SVDERR	
00621	R	201040	R		LAC	SDTW	
00622	R	041037	R		DAC	DTW	
00623	R	201030	R		LAC	STTREG	
00624	R	600524	R		JMP	DKR	
00625	R	201030	R	EDTER	LAC	STTREG	
00626	R	505260	R		AND	(200000)	
00627	R	740200	A		SZA		
00630	R	600645	R		JMP	HDW	/NO ERROR BITS
00631	R	201030	R		LAC	STTREG	
00632	R	505251	R		AND	(4000)	
00633	R	740200	A		SZA		
00634	R	600752	R		JMP	WLO	/WRITE LOCK OUT
00635	R	201030	R		LAC	STTREG	
00636	R	505261	R		AND	(20000)	
00637	R	740200	A		SZA		
00640	R	600651	R		JMP	WCE	/WCE ERROR
00641	R	201030	R		LAC	STTREG	
00642	R	505262	R		AND	(110000)	
00643	R	740200	A		SZA		
00644	R	600720	R		JMP	DPE	/DPE ERROR
00645	R	205241	R	HDW	LAC	(1	/HDW ERROR
00646	R	100766	R		JMS	CALCDT	/LOAD DISK, TRACK, ERROR #
00647	R	777776	A		LAW	-2	
00650	R	600772	R		JMP	SETRNM	
00651	R	205263	R	WCE	LAC	(2	
00652	R	100766	R		JMS	CALCDT	
00653	R	201027	R		LAC	TNUM	/GET TRACK-WORD
00654	R	040024	R		DAC	ERN3	
00655	R	200457	R		LAC	DSKXIT	
00656	R	045227	R		DAC	SVEXIT#	
00657	R	777773	A		LAW	-5	
00660	R	045224	R		DAC	ERNUM#	
00661	R	045225	R		DAC	ERSW	
00662	R	205264	R		LAC	(JMP WCE.1)	
00663	R	040502	R		DAC	ERRDIR	
00664	R	145230	R		DZM	TOTERR#	
00665	R	205226	R		LAC	SAVFCT	
00666	R	040670	R		DAC	+.2	
00667	R	100246	R	WCE.2	JMS	DOIO	
00670	R	000007	A		7		
00671	R	100457	R		JMS	DSKXIT	
					.EJECT		

00672	R	707272	A	WCE.1	DSRS+10	
00673	R	707041	A		DSCF	
00674	R	707242	A		DSCS	
00675	R	505261	R		AND	(20000)
00676	R	740200	A		SZA	
00677	R	445230	R		ISZ	TOTERR
00700	R	445224	R		ISZ	ERNUM
00701	R	600667	R		JMP	WCE.2
					/	
00702	R	205230	R	WCE.3	LAC	TOTERR
00703	R	744010	A		RCL	
00704	R	744010	A		RCL	
00705	R	744010	A		RCL	
00706	R	241030	R		XOR	STTREG
00707	R	040023	R		DAC	ERW2
00710	R	145225	R		DZM	ERSW
00711	R	205227	R		LAC	SVEXIT
00712	R	040457	R		DAC	DSKXIT
00713	R	777775	A		LAW	-3
00714	R	040021	R		DAC	ERWDC
00715	R	777777	A		LAW	-1
00716	R	040020	R		DAC	ASYSER
00717	R	600456	R		JMP	DONXID
00720	R	205265	R	DPE	LAC	(3
00721	R	100766	R		JMS	CALCDT
00722	R	201027	R		LAC	TNUM
00723	R	040024	R		DAC	ERW3
00724	R	200457	R		LAC	DSKXIT
00725	R	045227	R		DAC	SVEXIT
00726	R	777773	A		LAW	-5
00727	R	045224	R		DAC	ERNUM
00730	R	145230	R		DZM	TOTERR
00731	R	045225	R		DAC	ERSW
00732	R	205266	R		LAC	(JMP DPE.1)
00733	R	040502	R		DAC	ERRDIR
00734	R	205226	R		LAC	SAVFCT
00735	R	040737	R		DAC	.+2
00736	R	100246	R	DPE.2	JMS	DOIO
00737	R	000003	A		3	
00740	R	100457	R		JMS	DSKXIT
00741	R	707272	A	DPE.1	DSRS+10	
00742	R	707041	A		DSCF	
00743	R	707242	A		DSCS	
00744	R	505267	R		AND	(10000)
00745	R	740200	A		SZA	
00746	R	445230	R		ISZ	TOTERR
00747	R	445224	R		ISZ	ERNUM
00750	R	600736	R		JMP	DPE.2
00751	R	600702	R		JMP	WCE.3
					.EJECT	

00752	R	101000	R	WLO	JMS	CALTPT	/CHECK LOCKOUT.
00753	R	221022	R		LAC*	TBLPTR	
00754	R	501023	R		AND	TKBIT	
00755	R	740200	A		SZA		
00756	R	600456	R		JMP	DONXIO	/ALREADY PRINTED MESSAGE.
00757	R	221022	R		LAC*	TBLPTR	
00760	R	341023	R		TAD	TKBIT	
00761	R	061022	R		DAC*	TBLPTR	
00762	R	205270	R		LAC	(5	/SET UP TO PRINT W.L.O. MESSAGE.
00763	R	100766	R		JMS	CALCDT	
00764	R	777776	A		LAW	=2	
00765	R	600772	R		JMP	SETRNM	
					/		
00766	R	000000	A	CALCDT	0		
00767	R	341037	R		TAD	DTW	
00770	R	040022	R		DAC	ERW1	
00771	R	620766	R		JMP*	CALCDT	
00772	R	040021	R	SETRNM	DAC	ERWDC	
00773	R	777777	A		LAW	=1	
00774	R	040020	R		DAC	ASYSER	
00775	R	201030	R		LAC	STTREG	
00776	R	040023	R		DAC	ERW2	
00777	R	600456	R		JMP	DONXIO	
01000	R	000000	A	CALTPT	0		/CALC BIT (TKBIT) FOR
01001	R	200234	R		LAC	TCTR	/MATCH WITH LOCK OUT SWITCH.
01002	R	744000	A		CLL		
01003	R	742010	A		RTL		
01004	R	742010	A		RTL		/8 TRACKS PER SWITCH
01005	R	740010	A		RAL		
01006	R	505271	R		AND	(17	
01007	R	740001	A		CMA		
01010	R	040305	R		DAC	TLY	
01011	R	754002	A		CLA!STL		
01012	R	740020	A		RAR		
01013	R	440305	R		ISZ	TLY	
01014	R	601012	R		JMP	=2	
01015	R	041023	R		DAC	TKBIT	
01016	R	200134	R		LAC	DCTR	/ONE WORD PER DISK
01017	R	341043	R		TAD	BASTBL	/TBLPTR = ADDRESS OF
01020	R	041022	R		DAC	TBLPTR	/DISK WORD
01021	R	621000	R		JMP*	CALTPT	
					.EJECT		

```

01022 R 000000 A TBLPTR 0
01023 R 000000 A TKBIT 0
01024 R 000000 A SVDERR 0
01025 R 000000 A SAVAC 0
01026 R 000000 A DNUM 0
01027 R 000000 A TNUM 0
01030 R 000000 A STTREG 0
01031 R 000000 A SVSTRG 0
01032 R 000000 A SVDN 0
01033 R 000000 A SVTN 0
01034 R 000036 A WC 36
01035 R 000037 A CA 37
01036 R 000000 A RSAC 0
01037 R 000000 A DTW 0
01040 R 000000 A SDTW 0
01041 R 000000 A LTLY 0
01042 R 000000 A ITCTR 0
01043 R 001044 R BASTBL .+1
01044 R 000000 A
01045 R 000000 A
01046 R 000000 A
01047 R 000000 A
01050 R 000000 A
01051 R 000000 A
01053 R 000000 A
01054 R A RECORD .BLOCK 4000

```

/TABLE FOR STORING WRITE LOCK-OUT
/BITS

```

05054 R 746020 A LOOP CLLIRTR
05055 R 742020 A RTR
05056 R 742020 A RTR
05057 R 505242 R AND (7
05060 R 345062 R TAD LOOPJ
05061 R 045062 R DAC LOOPJ
05062 R 605063 R LOOPJ JMP .+1
05063 R 600105 R JMP DBG1
05064 R 605073 R JMP LOOP1
05065 R 605104 R JMP LOOP2
05066 R 605126 R JMP LOOP3
05067 R 605145 R JMP LOOP4
05070 R 605150 R JMP LOOP5
05071 R 605120 R JMP LOOP6
05072 R 605153 R JMP LOOP7

```

/GET TEST NUMBER IN UNITS POSITION
/ADD TO JUMP.
/DO JUMP.

.EJECT

```

/TEST 1
05073 R 200135 R LOOP1 LAC DSW1
05074 R 040121 R DAC DSKSW
05075 R 100270 R JMS DORNDM /CREATE RANDOM RECORD
05076 R 100246 R LUP1A JMS DOIO /WRITE
05077 R 000005 A 5
05100 R 100457 R JMS DSKXIT /WAIT
05101 R 441041 R ISZ LTLY
05102 R 605076 R JMP .-4 /LOOP
05103 R 600440 R JMP ENDT

/TEST 2
05104 R 200135 R LOOP2 LAC DSW1
05105 R 040121 R DAC DSKSW
05106 R 100270 R JMS DORNDM /CREATE RANDOM RECORD
05107 R 100246 R LUP2A JMS DOIO /WRITE
05110 R 000005 A 5
05111 R 100457 R JMS DSKXIT
05112 R 100246 R JMS DOIO /WRITE CHECK
05113 R 000007 A 7
05114 R 100457 R JMS DSKXIT
05115 R 441041 R ISZ LTLY
05116 R 605112 R JMP .-4 /LOOP TO WRITE CHECK
05117 R 600440 R JMP ENDT

/TEST 6
05120 R 100246 R LOOP6 JMS DOIO /READ RECORD.
05121 R 000003 A 3
05122 R 100457 R JMS DSKXIT
05123 R 441041 R ISZ LTLY
05124 R 605120 R JMP .-4 /LOOP TO READ
05125 R 600440 R JMP ENDT
.EJECT
```


/TEST 3

```

05126 R 200135 R LOOP3 LAC DSW1
05127 R 040121 R DAC DSKSW
05130 R 100270 R JMS DORNDM /CREATE RANDOM RECORD
05131 R 100246 R JMS DOIO /WRITE
05132 R 000005 A 5
05133 R 100457 R JMS DSKXIT
05134 R 200136 R LAC DSW2
05135 R 040121 R DAC DSKSW
05136 R 100246 R JMS DOIO /READ RECORD
05137 R 000003 A 3
05140 R 100457 R JMS DSKXIT
05141 R 100270 R JMS DORNDM /CHECK DATA
05142 R 441041 R ISZ LTLY
05143 R 605136 R JMP .-5 /LOOP TO READ
05144 R 600440 R JMP ENDT

```

/TEST 4

```

05145 R 200002 R LOOP4 LAC U002 /CREATE PATTERN RECORD
05146 R 105161 R JMS FILRCD
05147 R 605076 R JMP LUP1A /GO TO WRITE

```

/TEST 5

```

05150 R 200002 R LOOPS LAC U002
05151 R 105161 R JMS FILRCD /CREATE PATTERN
05152 R 605107 R JMP LUP2A /GO TO WRITE/WRITE CHECK

```

/TEST 7

```

05153 R 200002 R LOOP7 LAC U002
05154 R 105161 R JMS FILRCD /CREATE PATTERN
05155 R 100246 R JMS DOIO /WRITE PATTERN
05156 R 000005 A 5
05157 R 100457 R JMS DSKXIT
05160 R 605120 R JMP LOOP6 /GO TO READ.
.EJECT

```

05161	R	000000	A	FILRCD	0		/FILL RECORD WITH
05162	R	041054	R		DAC	RECORD	/AC & AC COMPLEMENTED.
05163	R	200373	R		LAC	BUFFER	
05164	R	040374	R		DAC	BFR	
05165	R	774000	A		LAW	-4000	
05166	R	040305	R		DAC	TLY	
05167	R	201054	R		LAC	RECORD	
05170	R	060374	R		DAC*	BFR	
05171	R	740001	A		CMA		
05172	R	440374	R		ISZ	BFR	
05173	R	440305	R		ISZ	TLY	
05174	R	605170	R		JMP	.-4	
05175	R	625161	R		JMP*	FILRCD	
05176	R	000000	A	SETUOD	0		
05177	R	040305	R		DAC	TLY	
05200	R	200000	R		LAC	UODSW	/IF LOOPING MODE
05201	R	505231	R		AND	(100000	/DON'T ALTER UODSW
05202	R	740200	A		SZA		
05203	R	625176	R		JMP*	SETUOD	
05204	R	200134	R		LAC	DCTR	
05205	R	744000	A		CLL		
05206	R	742020	A		RTR		
05207	R	742020	A		RTR		
05210	R	742020	A		RTR		
05211	R	740020	A		RAR		
05212	R	340305	R		TAD	TLY	
05213	R	040305	R		DAC	TLY	
05214	R	200000	R		LAC	UODSW	
05215	R	505272	R		AND	(704077	
05216	R	340305	R		TAD	TLY	/WHEN NOT LOOPING INSERT
05217	R	040000	R		DAC	UODSW	/DISK # AND TEST # IN UODSW
05220	R	625176	R		JMP*	SETUOD	
					.EJECT		

.END UODSW

000000 R
05231 R 100000 A *L
05232 R 774000 A *L
05233 R 070000 A *L
05234 R 740000 A *L
05235 R 003700 A *L
05236 R 741200 A *L
05237 R 741000 A *L
05240 R 002000 A *L
05241 R 000001 A *L
05242 R 000007 A *L
05243 R 000100 A *L
05244 R 000200 A *L
05245 R 000300 A *L
05246 R 252525 A *L
05247 R 000400 A *L
05250 R 000500 A *L
05251 R 004000 A *L
05252 R 777777 A *L
05253 R 000004 A *L
05254 R 400000 A *L
05255 R 776400 A *L
05256 R 777400 A *L
05257 R 000006 A *L
05260 R 200000 A *L
05261 R 020000 A *L
05262 R 110000 A *L
05263 R 000002 A *L
05264 R 600672 R *L
05265 R 000003 A *L
05266 R 600741 R *L
05267 R 010000 A *L
05270 R 000005 A *L
05271 R 000017 A *L
05272 R 704077 A *L

SIZE=05273

NO ERROR LINES

ASYSER	00020	R	BADAPI	00565	R	BASTBL	01043	R	BFR	00374	R
BFRMAX	00372	R	BREAK	00377	R	BREAK1	00413	R	BRKAC	05221	R
BSIZ	00030	R	BUFFER	00373	R	CA	01035	R	CALCDT	00766	R
CALTPT	01000	R	DBG1	00105	R	DBG1A	00100	R	DBG2	00110	R
DCTR	00134	R	DKR	00524	R	DKR1	00535	R	DKR2	00533	R
DLAH	707064	A	DLAL	707024	A	DNUM	01026	R	DOIO	00246	R
DONXIO	00456	R	DORNDM	00270	R	DPE	00720	R	DPE.1	00741	R
DPE.2	00736	R	DRAH	707062	A	DRAL	707022	A	DRN1	00315	R
DRN2	00344	R	DRN3	00346	R	DRN4	05222	R	DSCC	707021	A
DSCF	707041	A	DSCN	707044	A	DSCS	707242	A	DSFX	707042	A
DSKBGN	00031	R	DSKTR	00471	R	DSKRD	00177	R	DSKRD1	00212	R
DSKSW	00121	R	DSKWR	00160	R	DSKXIT	00457	R	DSK1	00112	R
DSK2	00122	R	DSK2A	00125	R	DSK3	00140	R	DSK4	00150	R
DSK5	00153	R	DSRS	707262	A	DSSF	707001	A	DSTSW1	05223	R
DSW1	00135	R	DSW2	00136	R	DSW3	00137	R	DTW	01037	R
EBA	707764	A	EDBDAP	00577	R	EDTER	00625	R	EEM	707702	A
ENDT	00440	R	ERNUM	05224	R	ERRDIR	00502	R	ERRFLG	00546	R
ERSW	05225	R	ERWDC	00021	R	ERW1	00022	R	ERW2	00023	R
ERW3	00024	R	ERW4	00025	R	ERW5	00026	R	FILRCD	05161	R
HDW	00645	R	HOLD	00306	R	INCT	00235	R	INTXIT	00446	R
ITCTR	01042	R	LOOP	05054	R	LOOPJ	05062	R	LOOP1	05073	R
LOOP2	05104	R	LOOP3	05126	R	LOOP4	05145	R	LOOP5	05150	R
LOOP6	05120	R	LOOP7	05153	R	LTLY	01041	R	LUP1A	05076	R
LUP2A	05107	R	NDF1	00432	R	NODFLG	00417	R	RANCON	00375	R
RANSAY	00376	R	RECORD	01054	R	RSAC	01036	R	SAVAC	01025	R
SAVFCT	05226	R	SDTW	01040	R	SETRNM	00772	R	SETUOD	05176	R
STTREG	01030	R	SUSVER	00612	R	SVDERR	01024	R	SVDN	01032	R
SVEXIT	05227	R	SVSTRG	01031	R	SVTN	01033	R	TBLPTR	01022	R
TCTR	00234	R	TEST1	00156	R	TEST2	00175	R	TEST3	00214	R
TKBIT	01023	R	TLY	00305	R	TNUM	01027	R	TOTERR	05230	R
TST3A	00220	R	UODSW	00000	R	UOD1	00001	R	UOD2	00002	R
UOD3	00003	R	WC	01034	R	WCE	00651	R	WCE.1	00672	R
WCE.2	00667	R	WCE.3	00702	R	WLO	00752	R			

UODSW	00000	R	UOD1	00001	R	UOD2	00002	R	UOD3	00003	R
ASYSER	00020	R	ERWDC	00021	R	ERW1	00022	R	ERW2	00023	R
ERW3	00024	R	ERW4	00025	R	ERW5	00026	R	BSIZ	00030	R
DSKBGN	00031	R	DBG1A	00100	R	DBG1	00105	R	DBG2	00110	R
DSK1	00112	R	DSKSW	00121	R	DSK2	00122	R	DSK2A	00125	R
DCTR	00134	R	DSW1	00135	R	DSW2	00136	R	DSW3	00137	R
DSK3	00140	R	DSK4	00150	R	DSK5	00153	R	TEST1	00156	R
DSKWR	00160	R	TEST2	00175	R	DSKRD	00177	R	DSKRD1	00212	R
TEST3	00214	R	TST3A	00220	R	TCTR	00234	R	INCT	00235	R
DOIO	00246	R	DORNDM	00270	R	TLY	00305	R	HOLD	00306	R
DRN1	00315	R	DRN2	00344	R	DRN3	00346	R	BFRMAX	00372	R
BUFFER	00373	R	BFR	00374	R	RANCON	00375	R	RANSAV	00376	R
BREAK	00377	R	BREAK1	00413	R	NUDFLG	00417	R	NDF1	00432	R
ENDT	00440	R	INTXIT	00446	R	DONXIO	00456	R	DSKXIT	00457	R
DSKITR	00471	R	ERRDIR	00502	R	DKR	00524	R	DKR2	00533	R
DKR1	00535	R	ERRFLG	00546	R	BADAPI	00565	R	EDBDAP	00577	R
SUSVER	00612	R	EDTER	00625	R	HDW	00645	R	WCE	00651	R
WCE.2	00667	R	WCE.1	00672	R	WCE.3	00702	R	DPE	00720	R
DPE.2	00736	R	DPE.1	00741	R	WLO	00752	R	CALCOT	00766	R
SETRNM	00772	R	CALTPT	01000	R	TBLPTR	01022	R	TKBIT	01023	R
SYDERR	01024	R	SAVAC	01025	R	DNUM	01026	R	TNUM	01027	R
STTREG	01030	R	SVSTRG	01031	R	SVDN	01032	R	SVTN	01033	R
WC	01034	R	CA	01035	R	RSAC	01036	R	DTW	01037	R
SDTW	01040	R	LTLY	01041	R	ITCTR	01042	R	BASTBL	01043	R
RECORD	01054	R	LOOP	05054	R	LOOPJ	05062	R	LOOP1	05073	R
LUP1A	05076	R	LOOP2	05104	R	LUP2A	05107	R	LOOP6	05120	R
LOOP3	05126	R	LOOP4	05145	R	LOOP5	05150	R	LOOP7	05153	R
FILRCD	05161	R	SETUOD	05176	R	BRKAC	05221	R	DRN4	05222	R
DSTSW1	05223	R	ERNUM	05224	R	ERSW	05225	R	SAVFCT	05226	R
SVEXIT	05227	R	TOTERR	05230	R	DSSF	707001	A	DSCC	707021	A
DRAL	707022	A	DLAL	707024	A	DSCF	707041	A	DSFX	707042	A
DSCN	707044	A	DRAH	707062	A	DLAH	707064	A	DSCS	707242	A
DSRS	707262	A	EEM	707702	A	EBA	707764	A			