

AOD1 DISK REVOLUTION TEST

ERR	LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT
				2		DECK 4
	0A00			3	AOD1	START X'A00'
				4	*****	
				5	*	*
				6	*	SYSTEM/3 DISK REVOLUTION TEST
				7	*	*
				8	*****	
	0A00	AOD1	0A01	9	DC	XL2'AOD1' PROGRAM IDENTIFICATION
	0A02	0001	0A03	10	DC	XL2'0001' .FLAGS & CURRENT RTN NUMBER
	0A04	0000	0A05	11	DC	XL2'0' .RESERVED
	0A06	0A10	0A07	12	DC	AL2(RTN01)
	0A08	FFFF	0A09	13	DC	XL2'FFFF' .ERROR RECORDING TABLE ADDR
	0A0A	A00000	0A0C	14	DISK1 DC	XL3'A00000' .SECTION UDI ENTRIES
	0A0D	B01000	0A0F	15	DISK2 DC	XL3'B01000'
				16	*****	
				17	*	ROUTINE 1
				18	*****	
	0A10	01	0A10	19	RTN01 DC	XL1'01' .ROUTINE1
	0A11	00	0A11	20	DC	XL1'00'
	0A12	0D5C	0A13	21	DC	AL2(RTN02)
				22	*****	
	0A14	38 02 020B		23	TESTA1 TBN	SBYTE3,X'02' IS SSW 1E ON?
	0A18	C0 10 0216		24	BT	LINK IF SO B TO LINK TO RTN 2.
	0A1C	38 20 0A0B		25	TBN	DISK1-1,X'20' .TEST IF PRIMARY DISK IS
	0A20	C0 90 0216		26	BF	LINK ATTACHED. IF NOT, LINK TO
	0A24	C0 87 021A		27	B	PRINT ROUTINE 2.
	0A28	01	0A28	28	DC	XL1'01'
	0A29	0C	0A29	29	DC	IL1'12'
	0A2A	0DD8	0A2B	30	DC	AL2(DSKA)
	0A2C	3C 00 12EF		31	TESTB1 MVI	RDI+3,X'00' .REINIT TO X'00' TO READ
	0A30	3C 80 0A90		32	MVI	RETR+1,X'80' .SET UP TO RETURN TO TESTB1
				33	*	AFTER NTFDY OR RECAL MSG.
	0A34	C1 A0 0A6C		34	TIO	NTRDY1,X'A0'
	0A38	31 A4 12E3		35	LIO	DAR,X'A4'
	0A3C	31 A6 12E5		36	LIC	RECL,X'A6'
	0A40	F3 A0 00		37	SIO	X'00',X'A0' .SEEK TRK 0
	0A43	C1 A2 0A43		38	SBUSY1 TIO	SBUSY1,X'A2'
	0A47	30 A2 0AC2		39	SEEKD1 SNS	BITCHK,X'A2' .LOOP TILL SEEK BUSY DROPS
	0A4B	38 10 CAC2		40	TEN	BITCHK,X'10'
	0A4F	C0 10 0A47		41	BT	SEEKD1
	0A53	38 40 0AC2		42	TBN	BITCHK,X'40'
	0A57	F2 90 25		43	JF	RECAL1
	0A5A	31 A6 12E7		44	LIO	RD,X'A6'
	0A5E	F3 A1 00		45	SIO	X'00',X'A1' .READ SECTOR 0
	0A61	C1 A2 0A51		46	RBUSY1 TIO	RBUSY1,X'A2'
	0A65	C1 A0 0A6C		47	TIO	NTRDY1,X'A0'
	0A69	F2 87 2B		48	J	START1
				49		
				50		
	0A6C	C0 87 021A		51	NTRDY1 B	PRINT
	0A70	C6	0A70	52	DC	XL1'C6'
	0A71	17	0A71	53	DC	IL1'23'
	0A72	12E1	0A73	54	DC	AL2(PNTRDY)
	0A74	A0FE	0A75	55	DC	XL2'A0FE'
	0A76	C0 87 0222		56	B	HALT
	0A7A	A0FE	0A7B	57	DC	XL2'A0FE'
	0A7C	F2 87 10		58	J	RETR
				59		
	0A7F	C0 87 021A		60	RECAL1 B	PRINT
	0A83	C6	0A83	61	DC	XL1'C6'
	0A84	26	0A84	62	DC	IL1'38'
	0A85	1315	0A86	63	DC	AL2(CALDSK)
	0A87	A005	0A88	64	DC	XL2'A005'
	0A89	C0 87 0222		65	B	HALT
	0A8D	A005	0A8E	66	DC	XL2'A005'
	0A8F	C0 80 0D60		67	RETR	TESTA2,X'80' .IF NO-CP, RETURN TO TESTA1
	0A93	C0 87 0A14		68	B	TESTA1 ELSE RETURN TO TESTA1.
				69		

AOD1 DISK REVOLUTION TEST

ERR	LCC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	
				0A97	70		USING START1, XR1	.SET UP BASE FOR XR1 & XR2
				0A97	71		USING START1, XR2	
0A97	C2	03	0A97	72	START1	LA	START1, X'03'	.INIT XR1 & XR2
0A9B	3C	A3	JAAF	73		MVI	CKDISK+1, X'A3'	
0A9F	3C	A3	0BA4	74		MVI	SWDISK+1, X'A3'	
				75				
				75				
				75				
0AA3	AC	01	29 25	76	RETRY	MVC	KOUNT (, XR2), XD4FF (2, XR2)	.NEED X'2B00' PASSES THRU
0AA7	AE	01	29 27	77	LOOP1	ALC	KOUNT (, XR2), X0001 (2, XR2)	LOOP FOR 100 REVOLUTIONS
0AAB	F2	A0	41	78		JOL	BADBIT	OF DISC. IF NO BIT SENSED
0AAE	B0	A3	2B	79	CKDISK	SNS	BITCHK (, XR2), X'A3'	IN 100 REVOLUTIONS, ASSUME
0AB1	B8	08	2A	80		TFN	BITCHK-1 (, XR2), X'08'	HAD INDEX BIT.
0AB4	CC	90	0AA7	81		BF	LCCP1	.IF BIT PRESENT, PROCEED TO
0AB8	F2	87	48	82		J	BITOK	
0ABB	D4FF			0ABC	83	XD4FF	DC	XL2'D4FF'
0ABD	0001			0ABE	84	X0001	DC	XL2'0001'
0ABF	0000			0ACO	85	KOUNT	DC	XL2'0'
0AC1	0000			0AC2	86	BITCHK	DC	XL2'0'
0AC3	C9D5C4C5E740C2C9			0AEE	87	PRINT1	DC	CL44'INDEX BIT HAS NOT APPEARED IN LAST 4 SECONDS'
0ACB	E340C8C1E240D5D6			87				
0AD3	E340C1D7D7C5C1D9			87				
0ADB	C5C440C9E540D3C1			87				
0AE3	E2E340F440E2C5C3			87				
0AEB	D6E5C4E2			87				
				88				
0AEF	C0	87	021A	89	BADBIT	B	PRINT	.PRINT OUT MESSAGE IN
0AF3	C6			0AF3	90	DC	XL1'C6'	PRINT1 ABOVE AND HALT
0AF4	2C			0AF4	91	DC	IL1'44'	
0AF5	0AEF			0AF6	92	DC	AL2 (PRINT1)	
0AF7	A089			0AF8	93	DC	XL2'A089'	
0AF9	C0	87	0222	94		B	HALT	
0AFD	A089			0AFE	95	DC	XL2'A089'	
0AFF	C0	87	0AA3	96		B	RETRY	.IF HALT RESET, RE-TRY AGAIN
				97				
				98				
0B03	38	01	0208	99	BITOK	TBN	SBYTE0, X'01'	.CHECK IF SSW7 IS ON. IF NOT,
0B07	F2	90	C7	100		JF	GOON	GO ON WITH THE PROGRAM. IF YES,
0B0A	3C	00	0DF3	101		MVI	WORK, X'00'	SKIP PRINTOUT AND DEFAULT TO
0B0E	F2	37	14	102		J	SW7SKP	TIMING 100 REVOLUTIONS.
				103				
				104				
0B11	CC	87	C21A	105	GOON	B	PRINT	
0B15	47			0B15	106	DC	XL1'47'	
0B16	2C			0B16	107	DC	IL1'44'	
0B17	0F02			0B18	108	DC	AL2 (TEST01)	
0B19	A0F9			0B1A	109	DC	XL2'A0F9'	
				110				
0B1B	C0	87	0222	111		B	HALT	
0B1F	A0F9			0B20	112	DC	XL2'A0F9'	
				113				
0B21	30	00	JDF3	114		SW7	WORK, X'00'	
0B25	0C	01	03F9 0BF7	115	SW7SKP	MVC	ETABL1, ATABL1 (2)	
0B2B	0C	03	0ED6 0BB9	116		MVC	TOTREV, DICFIL-4 (4)	.INITIALIZE FIELDS
0B31	0C	01	0C90 0BB9	117		MVC	DIVISR, DECFIL-4 (2)	
0B37	3D	0F	0DF3	118		CLI	WORK, X'0F'	.INVOKE DEFAULT IF > OF
0B3B	F2	04	C4	119		JNH	SETNUM	
0B3E	3C	00	0DF3	120		MVI	WORK, X'00'	
0B42	0E	01	0BF9 0F06	121	SETNUM	ALC	ETABL1, SWSET1 (2)	.DETERMINE HOW MANY
0B48	06	03	0ED6 0F0A	122		AZ	TOTREV (4), DO100 (4)	REVOLUTIONS TO TIME
0B4E	06	01	0C90 0F08	123		AZ	DIVISP (2), DO100-2 (2)	
0B54	3D	00	0DF3	124		CLI	WORK, X'00'	
0B58	F2	81	0E	125		JE	NUMREV	
0B5B	0F	00	0DF3 0BB3	126		SIC	WORK, ONE (1)	
0B61	C0	01	0B42	127		RND	SETNUM	
				128				
0B65	38	01	0208	129	NUMREV	TBN	SBYTE0, X'01'	.CHECK IF SSW7 IS ON. IF NOT,

AOD1 DISK REVCLUTION TEST

ERR	LOC	OBJECT	CODE	ADDR	STMI	SOURCE	STATEMENT	
OB69	F2	90	0D		130	JF	GOON2	GO ON WITH THE PROGRAM. IF YES, PRINT ID WITH THE DEFAULTED NUMBER OF REVOLUTIONS TIMED.
OB6C	C0	87	021A		131	B	PRINT	
OB70	46			0B70	132	DC	XL1'46'	
OB71	21			0B71	133	DC	IL1'33'	
OB72	0ED6			0B73	134	DC	AL2(TOTREV)	
OB74	A0F9			0B75	135	DC	XL2'A0F9'	
OB76	F2	87	C8		136	J	GOON3	
OB79	C0	87	021A		137	GOON2	B PRINT	
OB7D	06			0B7D	138	DC	XL1'06'	
OB7E	21			0B7E	139	DC	IL1'33'	
OB7F	0ED6			0B80	140	DC	AL2(TOTREV)	
					141			
					142			
				0B89	143		USING BUMP1,XR2	
OB81	C2	02	C889		144	GOON3	LA BUMP1,XR2	
OB85	C2	01	1412		145		LA TABL 4,XR1	.ALLOW FOR FIRST SENSE
OB89	36	01	0BF5		146	BUMP1	A TWO	.BUMP POINTER TO NEXT LOC
OB8D	34	01	CBEF		147		ST SAVXR1,XR1	.CHECK IF AT END OF TABLE
OB91	0D	01	0BEF 0BF9		148	CLC	SAVXR1(2),ETABL1	IF YES, GO DO THE
OB97	C0	81	0EFA		149	BE	GOCALC	CALCULATIONS
CB9B	6C	01	01 2C		150	MVC	1(2,XR1),TWC(XR2)	.ZERO OUT TABLE LOCATION
CB9F	6E	01	01 2A		151	TSTBIT	ALC 1(2,XR1),ONE(,XR2)	.ADD ONE TO COUNTER
OBA3	B0	A3	3B		152	SWDISK	SNS CHKBIT(,XR2),X'A3'	.CHECK IF INDEXING BIT ON,
OBA6	B8	08	3A		153	TEN	CHKBIT-1(,XR2),X'08'	IF NOT, CYCLE ONE MORE
OBA9	E0	90	16		154	BF	TSTBIT(,XR2)	TIME. IF YES, CHECK IF
OFAC	F2	87	00		155	J	DUMMY	ALL CHECKS MADE.
OFAF	E0	87	00		156	DUMMY	B BUMP1(,XR2)	
					157			
					158			
					159			
					160			
					161			
0BB2	00	1		0BB3	162	ONE	DC XL2'0001'	
0BB4	00	2		0BB5	163	TWO	DC XL2'0002'	
0BB6	F0F0F0F0F0F0F0F0	3F0F4F0		0BBD	164	DECFIL	DC XL8'F0F0F0F0F0F0F0F0'	
0BBE	F3F0F4FC			0BC1	165	D3040	DC DL4'3040'	
0BC2	00			0BC2	166		DC XL1'00'	
0BC3	0000			0BC4	167	CHKBIT	DC XL2'0000'	
0BC5	00			0BC5	168		DC XL1'00'	
0BC6	F0F0F0F0F0F0F0F0			0BCD	169	MAXVAL	DC DL8'0'	
0BCE	F0			0BCE	170		DC XL1'F0'	
0BCF	F0F0F0F0F0F0F0F0			0BD6	171	MINVAL	DC DL8'0'	
0BD7	F0			0BD7	172		DC XL1'F0'	
0BD8	F0F0F0F0F0F0F0F0			0BE3	173	TCTVAL	DC DL12'0'	
0BE0	F0F0F0F0				173			
0BE4	F0			0BE4	174		DC XL1'F0'	
0BE5	F0F0F0F0F0F0F0F0			0BEC	175	MEDVAL	DC DL8'0'	
0BED	F0			0BED	176	DRESET	DC XL1'F0'	
0BEE	0000			0BEF	177	SAVXR1	DC XL2'00'	
0BF0	0000			0BF1	178	SAVXR2	DC XL2'00'	
0BF2	0CC8			0BF3	179	EIGHT	DC XL2'0008'	
0BF4	0000			0BF5	180	COUNT	DC XL2'000C'	
0BF6	1416			0BF7	181	ATABL1	DC AL2(TABLE1)	
0BF8	0000			0BF9	182	ETABL1	DC XL2'0'	
					183			
					184			
					185			
					186			
					187			
0BFA	3C	80	0C25		188	GOCALC	MVI ONCE+1,X'80'	.SET UP TO INIT MIN&MAXVAL
0BFE	0C	27	0BEC 0BED		189	MVC	DRESET-1,DRESET(40)	.ZERO OUT PREVIOUS VALUES
0C04	C2	01	1414		190	LA	TABLE1-2,XR1	.INIT XR1 TO COUNTER TABLE
					191			
					192			
					193			
					194 *		THE PROGRAM WILL GO THROUGH LOOP2 UNTILL ALL TABLE ENTRIES	
					195 *		ARE ADDED UP. FOR EVERY TRIP THROUGH LOOP2, THE PROG GOES	
					196 *		THROUGH LOOP3 APPROXIMATRLY 1,000 TIMES. EACH TIMING	

AOD1 DISK REVOLUTION TEST

ERR	LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	
				197 *	LOOP IS 30.40 MICROSECONDS LONG AND THE NUMBER OF TIMES IT	
				198 *	HAS TO GO THROUGH THE LOOP IS (40,000 US /REVOLUTION)/	
				199 *	(30.40 US/LOOP) = APPROX 1,000 LOOPS / REVOLUTION.	
				200 *		
				201 *	SINCE WE ARE TIMING 100 REVOLUTIONS, THE PRCG GOES THROUGH	
				202 *	LOOP2 100 TIMES AND THROUGH LOOP3 1,000 TIMES PER LOOP2	
				203		
OC08	OC	07	0DF3	0BBD	204 LOOP2 MVC WORK(8),DECFIL	.RE-INITIALIZE WOPK
OC0E	D2	01	02		205 LA 2(,XR1),XR1	.SET UP NEXT COUNTER
OC11	4F	01	01	0BR3	206 LOOP3 SLC 1(,XR1),ONE(2)	.STAY IN THIS LOOP UNTILL
OC16	C0	82	0C24		207 EL ONCE	THE TIME FOR ONE REVOLUT-
OC1A	06	43	0DF3	0BC1	208 AZ WORK(8),D3040(4)	ION IS ADDED UP
OC20	C0	87	0C11		209 B LOOP3	
				210		
				211		
OC24	F2	80	10		212 ONCE JC KONT2,X'80'	.FIRST TIME THROUGH THE
OC27	OC	07	0BD6	0DF3	213 MVC MINVAL,WORK(8)	VALUE IS PUT IN BOTH MIN
OC2D	OC	07	0BCD	0DF3	214 MVC MAXVAL,WORK(8)	AND MAX VALUE SLOTS.
OC33	3C	87	0C25		215 MVI ONCE+1,X'87'	
				216		
OC37	06	47	0BE3	0DF3	217 KONT2 AZ TOTVAL(12),WORK(8)	.THE INDIVIDUAL REVOLUTION
OC3D	0D	07	0DF3	0BD6	218 CLC WORK(8),MINVAL	TIME IS ADDED TO THE TOT
OC43	F2	02	C9		219 JNL KONT3	TIME REGISTER FOR MEDVAL
OC46	OC	07	0BD6	0DF3	220 MVC MINVAL,WORK(8)	& CHECKED AGAINST PRESENT
OC4C	F2	87	0F		221 J KONT4	VALUES OF MIN & MAX. THE
OC4F	0D	07	0DF3	0BCD	222 KONT3 CLC WORK(8),MAXVAL	PRESENT VAL REPLACES PREV
OC55	F2	04	C6		223 JNH KONT4	VALUES IF MIN OR MAX IS
OC58	OC	07	0BCD	0DF3	224 MVC MAXVAL,WORK(8)	SURPASSED.
OC5E	07	30	0ED6	0C8E	225 KONT4 SZ TOTREV(4),DECC1(1)	.CHECK IF ALL VALUES ARE
OC64	C0	01	0C08		226 BNZ LOOP2	COMPARED AND TRANSLATED
				227 *		TO MICROSECONDS
				228		
				229		
OC68	3C	F0	0BEC		230 MVI MEDVAL,X'F0'	
OC6C	OC	06	0BEP	0BEC	231 MVC MEDVAL-1,MEDVAL(7)	
OC72	0D	01	0C90	0F08	232 DIVIDE CLC DIVISR(2),D0100-2	
OC78	F2	81	16		233 JE EDIV1	
OC7B	07	51	0BDF	0C90	234 DIV SZ TOTVAL-4(8),DIVISR(2)	
OC81	F2	04	13		235 JNH EDIV	
OC84	06	70	0BEC	0C8E	236 AZ MEDVAL(8),DECC1(1)	
OC8A	C0	87	0C7B		237 B DIV	
OC8E	F1			0C8E	238 DECO1 DC XL1'F1'	
OC8F	F0F1			0C90	239 DIVISR DC XL2'F0F1'	
OC91	OC	07	0BEC	0BDF	240 EDIV1 MVC MEDVAL(8),TOTVAL-4	
OC97	OC	06	CE0A	0DEB	241 EDIV MVC MINMS2,EDMASK(7)	.SET UP EDITING MASKS FOR
OC9D	OC	06	CE4A	0DEB	242 MVC MEDMS2,EDMASK(7)	THE MIN, MED, AND MAX
OCA3	OC	06	CE8A	0DEB	243 MVC MAXMS2,EDMASK(7)	VALUES
OCA9	0A	06	CE0A	0BD4	244 ED MINMS2(7),MINVAL-2	EDIT VALUES OF MIN, MED,&
OCAF	0A	06	CE4A	0BEC	245 ED MEDMS2(7),MEDVAL	MAX INTO THE MASKS.NOTE:
OCB5	0A	06	CE8A	0BCB	246 ED MAXMS2(7),MAXVAL-2	MEDVAL IS ALREADY SHIFTED
				247 *		BY DIV LOOP OR BY EDIV1
				248		
				249		
OCBB	C0	87	021A		250 B PRINT	.PRINT OUT VALUES OF MIN,
OCBF	01			0CBF	251 DC XL1'01'	MED, AND MAX VALUES
OCC0	40			OCC0	252 DC IL1'60'	
OCC1	0E35			OCC2	253 AMINPR DC AL2(MINMSK)	
OCC3	C0	87	021A		254 B PRINT	
OCC7	01			OCC7	255 DC XL1'01'	
OCC8	40			OCC8	256 DC IL1'64'	
OCC9	0E75			OCCA	257 AMEDPR DC AL2(MEDMSK)	
OCCB	C0	87	021A		258 B PRINT	
OCCF	06			OCCF	259 DC XL1'06'	
OCD0	40			OCD0	260 DC IL1'64'	
OCD1	0EB5			OCD2	261 AMAXPR DC AL2(MAXMSK)	
				262		
				263		
OCL3	0D	06	CE0A	0E2B	264 COMPHI CLC MINMS2(7),MINMSK-10	.IF MIN REV TIME LESS

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ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	
		0CD9	F2 02 39		265	JNL	COMPLO	THAN MIN TOLERANCE, THE
		0CDC	C0 87 C21A		266	FSTPR1	B PRINT	DISK IS SPINNING TO
		0CE0	C1	0CE0	267	DC	XL1'C1'	FAST. PRINT OUT ERROR
		0CE1	32	0CE1	268	DC	IL1'50'	MESSAGES TELLING OF
		0CE2	11C6	0CE3	269	DC	AL2(EFST01)	POSSIBLE DISK PROBLEMS.
		0CE4	A096	0CE5	270	DC	XL2'A096'	
		0CE6	C0 87 021A		271	FSTPR2	B PRINT	
		0CEA	81	0CEA	272	DC	XL1'81'	
		0CEB	32	0CEB	273	DC	IL1'50'	
		0CEC	11F8	0CED	274	FSTPRT	DC AL2(EFST02)	
		0CEE	0D 01 0CED 12C4		275	CLC	FSTPRT(2),AEFST5	
		0CF4	F2 81 0A		276	JE	FSTPR3	
		0CF7	0E 01 0CED 12C2		277	ALC	FSTPRT(2),X0032	
		0CFD	C0 87 CCE6		278	B	FSTPR2	
		0D01	C0 87 021A		279	FSTPR3	E PRINT	
		0D05	86	0D05	280	DC	XL1'86'	
		0D06	32	0D06	281	DC	IL1'50'	
		0D07	12C0	0D08	282	DC	AL2(EFST06)	
		0D09	0C 01 0CED 12C6		283	MVC	FSTPRT,AEFST2(2)	
					284			
		0D0F	C0 87 0222		285	FSTHLT	B HALT	.ERROR HALT -A096- DISK
		0D13	A096	0D14	286	DC	XL2'A096'	SPEED GRTR THAN 1530 RPM
					287			
		0D15	0 06 CE8A 0EAB		288	COMPLO	CLC MAXMSK(7),MAXMSK-10	.IF MAX REV TIME GREATER
		0D1B	C0 0 0216		289	ENH	LINK	THAN MAX TOLERANCE, THE
		0D1F	C0 87 021A		290	SLOPR1	B PRINT	DISK IS SPINNING TO
		0D23	C1	0D23	291	DC	XL1'C1'	SLOW. PRINT OUT ERROR
		0D24	32	0D24	292	DC	IL1'50'	MESSAGES TELLING OF
		0D25	0F3C	0D26	293	DC	AL2(ESLO01)	POSSIBLE DISK PROBLEMS.
		0D27	A095	0D28	294	DC	XL2'A095'	
		0D29	C0 87 021A		295	SLOPR2	E PRINT	
		0D2D	81	0D2D	296	DC	XL1'81'	
		0D2E	32	0D2E	297	DC	IL1'50'	
		0D2F	0F6E	0D30	298	SLOPRT	DC AL2(ESLO02)	
		0D31	0D 01 0D30 12C8		299	CLC	SLOPRT(2),AESL12	
		0D37	F2 81 0A		300	JE	SLOPR3	
		0D3A	0E 01 0D30 12C2		301	ALC	SLOPRT(2),X0032	
		0D40	C0 87 0D29		302	B	SLOPR2	
		0D44	C0 87 C21A		303	SLOPR3	B PRINT	
		0D48	86	0D48	304	DC	XL1'86'	
		0D49	32	0D49	305	DC	IL1'50'	
		0D4A	1194	0D4B	306	DC	AL2(ESLO13)	
		0D4C	0C 01 0D30 12CA		307	MVC	SLOPRT,AESLO2(2)	
					308			
		0D52	C0 87 0222		309	FSTHLT	B HALT	.ERROR HALT -A095- DISK
		0D56	A095	0D57	310	DC	XL2'A095'	SPEED LESS THAN 1470 RPM
					311			
		0D58	C0 87 0216		312	B	LINK	.LINK TO NEXT ROUT OR SECT
					313			
					314			
					315		*****	
					316		* ROUTINE PREFACE *****	
					317		*****	
		0D5C	02	0D5C	318	RTN02	DC XL1'02'	.ROUTINE 2
		0D5D	00	0D5D	319	DC	XL1'00'	
		0D5E	FFFF	0D5F	320	DC	XL2'FFFF'	
					321			
					322		*****	
					323		* ROUTINE 2 *****	
					324		*****	
					325			
		0D60	38 01 020B		326	TESTA2	TEN SBYTE3,X'01'	IS SSW 1F ON?
		0D64	F2 10 C7		327	JT	**+10	IF YES, JUMP TO LOAD.
		0D67	38 20 0ACE		328	TEN	DJSK2-1,X'20'	TEST IF SECONDARY DISK IS
		0D6B	F2 10 05		329	JT	FEIRV2	ATTACHED. IF NOT, LOAD
		0D6E	C0 87 022A		330	B	LOAD	NEXT DCP SECTION.

A0D1 DISK REVOLUTION TEST

ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT
	0D72	00		0D72	331	DC	XL1'00'
	0D73	C0 87 021A			332	PETRY2 E	PRINT
	0D77	01		0D77	333	DC	XL1'01'
	0D78	0C		0D78	334	DC	IL1'12'
	0D79	0DE4		0D7A	335	DC	AL2(DISKB)
	0D7B	3C 00 12EF			336	TESTB2 MVI	RDIT+3,X'00'
	0D7F	3C 87 0A90			337	MVI	RETBR+1,X'87'
					338	*	
	0D83	C1 B0 0A6C			339	TIO	NTRDY1,X'B0'
	0D87	31 B4 12E3			340	LIO	DAR,X'B4'
	0D8B	31 B6 12E5			341	LIC	RECL,X'B6'
	0D8F	F3 B0 00			342	SIO	X'00',X'B0'
	0D92	C1 B2 0D92			343	SBUSY2 TIO	SBUSY2,X'B2'
	0D96	30 B2 0AC2			344	SEEKD2 SNS	BITCHK,X'B2'
	0D9A	38 10 0AC2			345	TBN	BITCHK,X'10'
	0D9E	C0 10 0D96			346	ET	SEEKD2
	0DA2	38 40 0AC2			347	TBN	BITCHK,X'40'
	0DA6	C0 90 0A7F			348	BF	RECAL1
	0DAA	31 B6 12E7			349	LIC	ED,X'B6'
	0DAE	F3 B1 00			350	SIO	X'00',X'B1'
	0DB1	C1 B2 0DB1			351	RBUSY2 TIC	RBUSY2,X'E2'
	0DB5	C1 B0 0A6C			352	TIO	NTRDY1,X'B0'
					353		
				0A97	354	USING	START1,XR1
				0A97	355	USING	START1,XR2
					356		
					357		
	0DB9	C2 03 0A97			358	START2 LA	START1,X'03'
	0DBD	3C B3 0AAF			359	MVI	CKDISK+1,X'B3'
	0DC1	3C B3 0EA4			360	MVI	SWDISK+1,X'B3'
	0DC5	C0 87 0AA3			361	B	RETRY
					362		
					363		
					364		

.REINIT TO X'00' TO READ
.SET UP TO RETURN TO TESTB2
AFTER NTRDY OR RECAL MSG.

.SEEK TRF 0

.LOOP TILL SEEK BUSY DROPS

.READ SECTOR 0

AOD1 DISK REVOLUTION TEST

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT
ODC9	0A97	ODCA	366	ASTRT1 DC	AL2(START1)
ODCB	0DE9	ODCC	367	ASTRT2 DC	AL2(START2)
ODCD	C4C9E2D240C4D9C9	ODD8	368	DISKA DC	CL12'DISK DRIVE 1'
ODD5	E5C540F1		368		
ODD9	C4C9E2L240C4D9C9	ODE4	369	DISKB DC	CL12'DISK DRIVE 2'
ODE1	E5C540F2		369		
			370		
ODE5	2020204B202020	ODEB	371	EDIT MASK DC	XL7'2020204B202020' .NEW EDIT INSTRUCTION MASK
			372	*EDIT MASK DC	XL7'F0F0F04BF0F0F0' .OLD EDIT INSTRUCTION MASK
			373		
ODEC	000000C0C0000000	ODF3	374	WORK DC	XL8'0'
ODF4	0035	ODF5	375	X0035 DC	XL2'0035'
ODF6	D4C9D540D9C5E540	OE03	376	MINMS1 DC	CL14'MIN REV TIME= '
ODFE	E3C9D4C57E40		376		
OE04	0000C000000000	OE0A	377	MINMS2 DC	XL7'00' .ENTER EDIT MASK HERE
OE0B	40D4C9D3D3C9E2C5	OE35	378	MINMSK DC	CL43' MILLISEC (MIN TOLERANCE= 039.040 MILLISEC)'
OE13	C3404DD4C9D540E3		378		
OE1B	D6D3C5E9C1D5C3C5		378		
OE23	7E40F0F3F94BF0F4		378		
OE2B	F040D4C9D3D3C9E2		378		
OE33	C5C35D		378		
OE36	C1E5C540D9C5E540	OE43	379	MEDMS1 DC	CL14'AVE REV TIME= '
OE3E	E3C9D4C57E40		379		
OE44	000000C0000000	OE4A	380	MEDMS2 DC	XL7'00' .ENTER EDIT MASK HERE
OE4B	40D4C9D3D3C9E2C5	OE75	381	MEDMSK DC	CL43' MILLISEC (NORMAL SPEED = 040.000 MILLISEC)'
OE53	C3404DD5D6D9D4C1		381		
OE5B	D340E2D7C5C5C440		381		
OE63	7E40F0F4F04BF0F0		381		
OE6B	F040D4C9D3D3C9E2		381		
OE73	C5C35D		381		
OE76	D4C1E740D9C5E540	OE83	382	MAXMS1 DC	CL14'MAX REV TIME= '
OE7E	E3C9D4C57E40		382		
OE84	000000C0000000	OE8A	383	MAXMS2 DC	XL7'00' .ENTER EDIT MASK HERE
OE8B	40D4C9D3D3C9E2C5	OE85	384	MAXMSK DC	CL43' MILLISEC (MAX TOLERANCE= 040.960 MILLISEC)'
OE93	C3404DD4C1E740E3		384		
OE9B	D6D3C5E9C1D5C3C5		384		
OEAB	7E40F0F4F04BF0F6		384		
OEAB	F040D4C9D3D3C9E2		384		
OE83	C5C35D		384		
OE86	D5E4D4C2C5D940D6	OE82	385	TOTRE1 DC	CL29'NUMBER OF REVOLUTIONS TIMED= '
OE8E	C640D9C5E5D6D3E4		385		
OE86	E3C9D6D5E240E3C9		385		
OECE	D4E5C47E40		385		
OE83	40404040	OE86	386	TOTREV DC	XL4'40404040'
OE87	E2C5D3C5C3E340E3	OE82	387	TEST01 DC	CL44'SELECT THE NUMBER OF REVOLUTIONS TO BE TIMED'
OE8F	C8C540D5E4D4C2C5		387		
OE87	D940D6C640D9C5E5		387		
OE8F	D6L3E4E3C9D6D5E2		387		
OE87	40E3D640C2C540E3		387		
OE8F	C9D4C5C4		387		
OF03	A090	OF04	388	XA090 DC	XL2'A090'
OF05	00C8	OF06	389	SWSET1 DC	IL2'0200'
OF07	F0F1F0F0	OF0A	390	D0100 DC	DL4'0100'
OF0B	5C5C5C5C5C40D4C1	OF3C	391	ESL001 DC	CL50'***** MAX REV TIME ABOVE MAX TOLERANCE CAUSED BY: '
OF13	E740E9C5E540E3C9		391		
OF1B	D4C540C1C2D6E5C5		391		
OF23	40L4C1E740E3D6D3		391		
OF2E	C5D9C1D5C3C540C3		391		
OF37	C1E4E2C5C440C2E8		391		
OF3B	7A40		391		
OF3D	5C5C5C5C5C404040	OF6E	392	ESL002 DC	CL50'***** 1) SLIPPING BELT
OF45	F15D40E2D3C9D7D7		392		
OF4D	C1D5C740C2C5D2E3		392		
OF55	4040404040404040		392		
OF5D	4040404040404040		392		
OF65	4040404040404040		392		
OF6D	4040		392		
OF6F	5C5C5C5C5C404040	OF6A	393	ESL003 DC	CL50'***** 2) WORN BEARINGS

AOD1 DISK REVOLUTION TEST

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT
0F77	F25D4CE6D6D9D540		393		
0F7F	C2C5C1E9C9D5C7E2		393		
0F87	4040404040404040		393		
0F8F	4040404040404040		393		
0F97	4040404040404040		393		
0F9F	4040		393		
0FA1	5C5C5C5C5C404040	0FD2	394	ESL004 DC	CL50'***** 2.1) MOTOR
0FA9	404040F24BF15D40		394		
0FB1	D4D6E3D6D9404040		394		
0FB9	4040404040404040		394		
0FC1	4040404040404040		394		
0FC9	4040404040404040		394		
0FD1	4040		394		
0FD3	5C5C5C5C5C404040	1004	395	ESL005 DC	CL50'***** 2.2) IDLER PULLEY
0FDB	404040F24BF25D40		395		
0FE3	C9C4D3C5D940D7E4		395		
0FEB	D3D3C5E840404040		395		
0FF3	4040404040404040		395		
0FFB	4040404040404040		395		
1003	4040		395		
1005	5C5C5C5C5C404040	1036	396	ESL006 DC	CL50'***** 2.3) LAYSHAFT PULLEY
100D	404040F24BF35D40		396		
1015	D3C1E8E2C8C1C6E3		396		
101D	40D7E4D3D3C5E84C		396		
1025	4040404040404040		396		
102D	4040404040404040		396		
1035	4040		396		
1037	5C5C5C5C5C404040	1068	397	ESL007 DC	CL50'***** 2.4) SPINDLE PULLEY
103F	404040F24BF45D40		397		
1047	E2E7C9E5C4D3C540		397		
104F	D7E4D3D3C5E8404C		397		
1057	4040404040404040		397		
105F	4040404040404040		397		
1067	4040		397		
1069	5C5C5C5C5C404040	109A	398	ESL008 DC	CL50'***** 3) DEFECTIVE MOTOR
1071	F35D4CC4C5C6C5C3		398		
1079	E3C9E5C540D4D6E3		398		
1081	D6D9404040404040		398		
1089	4040404040404040		398		
1091	4040404040404040		398		
1099	4040		398		
109B	5C5C5C5C5C404040	10CC	399	ESL009 DC	CL50'***** 4) WRONG PULLEY. 60HZ PULLEY ON 50HZ MOTOR
10A3	F45D40E6D9D6D5C7		399		
10AB	40E7E4D3D3C5E84B		399		
10B3	40F6F0C8E940D7E4		399		
10BB	D3D3C5E84CD6D540		399		
10C3	F5FCC8E940D4D6E3		399		
10CB	D6D9		399		
10CD	5C5C5C5C5C404040	10FE	400	ESL010 DC	CL50'***** 4.1) 50HZ PULLEY = 1.517 +/- .002 INCH
10D5	404040F44BF15D40		400		
10DE	F5FCC8E940D7E4D3		400		
10E5	D3C5E84C7E40F14B		400		
10ED	F5F1F7404E60404B		400		
10F5	F0F0F240C9D5C3C8		400		
10FD	4040		400		
10FF	5C5C5C5C5C404040	1130	401	ESL011 DC	CL50'***** 4.2) 60HZ PULLEY = 1.360 +/- .002 INCH
1107	404040F44BF25D40		401		
110F	F6FCC8E940D7E4D3		401		
1117	D3C5E84C7E40F14B		401		
111F	F2F6F0404E60404B		401		
1127	F0F0F240C9D5C3C8		401		
112F	4040		401		
1131	5C5C5C5C5C404040	1162	402	ESL012 DC	CL50'***** 5) WRONG MOTOR - 60HZ MOTOR ON 50HZ POWER
1139	F55D4CE6D9D6D5C7		402		
1141	40E4D6E3D6D94060		402		
1149	40F6F0C8E940D4D6		402		
1151	E3D6D940D6D540F5		402		
1159	FCC8E940D7D6E6C5		402		

AOD1 DISK REVOLUTION TEST

ERR	LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT
1161		D940		402		
1163		5C5C5C5C5C404040	1194	403	ESL013 DC	CL50'***** 6) INDEXING PULSE BELOW SPEC OR MISSING '
116B		F65D40C9D5C4C5E7		403		
1173		C9D5C740E7E4D3E2		403		
117B		C540C2C5D3D6E640		403		
1183		E2E7C5C340D6D940		403		
118B		D4C9E2E2C9D5C740		403		
1193		4040		403		
				404		
1195		5C5C5C5C5C40D4C9	11C6	405	EFST01 DC	CL50'***** MIN REV TIME BELOW MIN TOLERANCE CAUSED BY: '
119D		D540I9C5E540E3C9		405		
11A5		D4C540C2C5D3D6E6		405		
11AD		40D4C9D540E3D6E3		405		
11B5		C5E9C1E5C3C540C3		405		
11BD		C1E4E2C5C440C2E8		405		
11C5		7A40		405		
11C7		5C5C5C5C5C404040	11F8	406	EPST02 DC	CL50'***** 1) WRONG PULLEY. 50HZ PULLEY ON 60HZ MOTOR'
11CF		F15D40E6D9D6D5C7		406		
11D7		40D7E4D3E3C5E84B		406		
11DF		40F5F0C8E940D7E4		406		
11E7		D3D3C5E840D6D540		406		
11EF		F6F0C8E940D4D6E3		406		
11F7		D6D9		406		
11F9		5C5C5C5C5C404040	122A	407	EFST03 DC	CL50'***** 1.1) 50HZ PULLEY = 1.517 +- .002 INCH '
1201		404040F14BF15D40		407		
1209		F5F0C8E940D7E4D3		407		
1211		D3C5E840E40F14B		407		
1219		F5F1F7404E60404B		407		
1221		F0F0F240C9D5C3C8		407		
1229		4040		407		
122B		5C5C5C5C5C404040	125C	408	EFST04 DC	CL50'***** 1.2) 60HZ PULLEY = 1.260 +- .002 INCH '
1233		404040F14BF25D40		408		
123B		F6F0C8E940D7E4D3		408		
1243		D3C5E840E40F14B		408		
124B		F2F6F0C404E60404B		408		
1253		F0F0F240C9D5C3C8		408		
125B		4040		408		
125D		5C5C5C5C5C404040	128E	409	EFST05 DC	CL50'***** 2) WRONG MOTOR - 50HZ MOTOR ON 60HZ POWER '
1265		F25D40E6D9D6D5C7		409		
126D		40D4D6E3D6D94060		409		
1275		40F5F0C8E940D4D6		409		
127D		E3D6D940D6D540F6		409		
1285		F0C8E940D7D6E6C5		409		
128D		D940		409		
128F		5C5C5C5C5C404040	12C0	410	EFST06 DC	CL50'***** 3) INDEXING PULSE TOO LONG OR STUCK ON '
1297		F35D40C9D5C4C5F7		410		
129F		C9D5C740E7E4D3E2		410		
12A7		C540E3D6E640D3D6		410		
12AF		D57740D6D940E2E3		410		
12B7		E4C3D240D6D54040		410		
12BF		4040		410		
				411		
12C1		0032	12C2	412	X0C32 DC	XL2'0032'
12C3		12EE	12C4	413	AEFST5 DC	AL2(EFST05)
12C5		11F8	12C6	414	AEFST2 DC	AL2(EFST02)
12C7		11E2	12C8	415	AESL12 DC	AL2(ESL012)
12C9		0F6E	12CA	416	AESL02 DC	AL2(ESL002)
12CB		C4C9E2D240D5D6E3	12E1	417	PNTRDY DC	CL23'DISK NOT READY OR ERROR'
12D3		40D9C5C1C4E840D6		417		
12DB		D940C5E9D9D6D9		417		
12E2		1316	12E3	418	DAR DC	AL2(READIN)
12E4		12EE	12E5	419	RECL DC	AL2(SEEK0)
12E6		12EC	12E7	420	RD DC	AL2(RDIT)
			12E8	421	SEEK0 EQU	*
12E8		000000FF	12EB	422	DC	XL4'000000FF'
			12EC	423	RDIT EQU	*
12EC		00000000	12EF	424	DC	XL4'00000000'
12F0		C4C9E2D240D5D6E3	1315	425	CALDSK DC	CL38'DISK NOT CALIBRATED. RECALIBRATE DISK.'

MOD1 DISK REVOLUTION TEST

ERR	LOC	OBJECT	CCDE	ADDR	STMT	SOURCE	STATEMENT
	12F8	40C3C1D3C9C2D9C1		425			
	1300	E3C5C44B40D9C5C3		425			
	1308	C1D3C9C2D9C1E3C5		425			
	1310	40C4C9E2D24B		425			
				426			
				0001	427	XR1	EQU X'01'
				0002	428	XR2	EQU X'02'
				0008	429	ARR	EQU X'08'
				0010	430	IAR	EQU X'10'
				0004	431	PSR	EQU X'04'
				0020	432	P1IAR	EQU X'20'
				0040	433	P2IAR	EQU X'40'
				0080	434	IAR0	EQU X'80'
				0081	435	IAR1	EQU X'81'
				0082	436	IAR2	EQU X'82'
				0084	437	IAR3	EQU X'84'
				0088	438	IAR4	EQU X'88'
				0200	439	SRT	EQU X'200'
				0202	440	SMOD	EQU X'202'
				0203	441	SIZE	EQU X'203'
				0204	442	CPU	EQU X'204'
				0208	443	SBYTE0	EQU X'208'
				0209	444	SBYTE1	EQU X'209'
				020A	445	SBYTE2	EQU X'20A'
				020B	446	SBYTE3	EQU X'20B'
				020C	447	SBYTE4	EQU X'20C'
				020D	448	SBYTE5	EQU X'20D'
				0212	449	TEST	EQU X'212'
				0216	450	LINK	EQU X'216'
				021A	451	PRINT	EQU X'21A'
				021E	452	UNPACK	EQU X'21E'
				0222	453	HALT	EQU X'222'
				0226	454	PACK	EQU X'226'
				022A	455	LOAD	EQU X'22A'
				0232	456	UTAR	EQU X'232'
				0800	457	LPIMAG	EQU X'800'
				087C	458	LPDATA	EQU X'87C'
				0A00	459	SET	EQU X'A00'
				0A01	460	PROGID	EQU X'A01'
				0A02	461	SPPLGS	EQU X'A02'
				0A03	462	RNUM	EQU X'A03'
				0A07	463	FRIN	EQU X'A07'
				0A09	464	TABADR	EQU X'A09'
				0A0A	465	SPUDT	EQU X'A0A'
				466			
				467	*		
				1316	468	READIN	EQU *
1316				1415	469	DS	XL256
				1416	470	TABLE1	EQU *
	1416			1ECD	471	DS	15XL200
1FCE				2005	472	DS	XL56
				473		TREP	
				474		TREP	
				475		TREP	
				476		TREP	
				477		TREP	
				478		TREP	
				479		TREP	
				480		TREP	
				481		TREP	
				482		TREP	
				483		TREP	
				484		TREP	
				485		TREP	
				486		TREP	
				487		TREP	
				488		TREP	
				489		TREP	

THESE NOTES USED TO KEEP

AOD1 DISK REVOLUTION TEST

ERR LOC	OBJECT CODE	ADDR	STMI	SOURCE	STATEMENT
			490		TREP
		FFFF	491		END

AOD1 DISK REVOLUTION TEST

CROSS-REFERENCE

SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
AEFST2	A	002	12C6	0414	0283
AEFST5	A	002	12C4	0413	0275
AESL02	A	002	12CA	0416	0307
AESL12	A	002	12C8	0415	0299
AMAXPR	A	002	0CD2	0261	
AMEDPR	A	002	0CCA	0257	
AMINPR	A	002	0CC2	0253	
ARR	C	001	0008	0429	
ASTRT1	A	002	0DCA	0366	
ASTRT2	A	002	0DCC	0367	
ATAEL1	A	002	0BF7	0181	0115
AOD1	A	001	0A00	0003	
BADBIT	A	004	0AEF	0089	0078
BITCHK	A	002	0AC2	0086	0039* 0040 0042 0079* 0080 0344* 0345 0347
BITCK	A	004	0BC3	0099	0082
BUMP1	A	004	0B89	0146	0143 0144 0156
CALDSK	A	038	1315	0425	0063
CHKBIT	A	002	0BC4	0167	0152* 0153
CKDISK	A	003	0AAE	0079	0073* 0359*
COMPFI	A	006	0CD3	0264	
COMELO	A	006	0D15	0288	0265
COJNT	A	002	0BF5	0180	
CPU	C	001	0204	0442	
DAR	A	002	12E3	0418	0035 0340
DECFIL	A	008	0BED	0164	0116 0117 0204
DECO1	A	001	0C8E	0238	0225 0236
DISKA	A	012	0DD8	0368	0030
DISKB	A	012	0DE4	0369	0335
DISK1	A	003	0ACC	0014	0025
DISK2	A	003	0A0F	0015	0328
DIV	A	006	0C7B	0234	0237
DIVIDE	A	006	0C72	0232	
DIVISR	A	002	0C90	0239	0117* 0123* 0232 0234
DRESET	A	001	0BED	0176	0189 0189*
DUMMY	A	003	0EAF	0156	0155
DO100	A	004	0FCA	0390	0122 0123 0232
D3040	A	004	0BC1	0165	0208
EDIV	A	006	0C97	0241	0235
EDIV1	A	006	0C91	0240	0233
EDMASK	A	007	0DEE	0371	0241 0242 0243
EFST01	A	050	11C6	0405	0269
EFST02	A	050	11F8	0406	0274 0414
EFST03	A	050	122A	0407	
EFST04	A	050	125C	0408	
EFST05	A	050	128E	0409	0413
EFST06	A	050	12C0	0410	0282
EIGHT	A	002	0BF3	0179	
ESLC01	A	050	0F3C	0391	0293
ESLC02	A	050	0F6E	0392	0298 0416
ESLC03	A	050	0FA0	0393	
ESLOC4	A	050	0FE2	0394	
ESLC05	A	050	1004	0395	
ESL006	A	050	1036	0396	
ESLC07	A	050	1068	0397	
ESLCC8	A	050	109A	0398	
ESLC09	A	050	10CC	0399	
ESL010	A	050	10FE	0400	
ESLC11	A	050	1130	0401	
ESLC12	A	050	1162	0402	0415
ESLC13	A	050	1194	0403	0306
ETABL1	A	002	0BF9	0182	0115* 0121* 0148
FRTN	C	001	0A07	0463	
FSTHLT	A	004	0D0F	0285	
FSTPR1	A	002	0CFD	0274	0275 0277* 0283*
FSTPR2	A	004	0CF6	0271	0278

AOD1 DISK REVOLUTION TEST

CROSS-REFERENCE

SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
FSTPR3	A	004	0D01	0279	0276
GOCALC	A	004	0BFA	0188	0149
GOON	A	004	0B11	0105	0100
GOON2	A	004	0B79	0137	0130
GOON3	A	004	0B81	0144	0136
HALT	C	001	0222	0453	0056 0065 0094 0111 0285 0309
IAR	C	001	0010	0430	
IAR0	C	001	0080	0434	
IAR1	C	001	0081	0435	
IAR2	C	001	0082	0436	
IAR3	C	001	0084	0437	
IAR4	C	001	0088	0438	
KONT2	A	006	0C37	0217	0212
KONT3	A	006	0C4F	0222	0219
KONT4	A	006	0C5E	0225	0221 0223
KOUNT	A	002	0AC0	0085	0076* 0077*
LINK	C	001	0216	0450	0024 0026 0289 0312
LOAD	C	001	022A	0455	0330
LOOP1	A	004	0AA7	0077	0081
LOOP2	A	006	0C08	0204	0226
LOOP3	A	005	0C11	0206	0209
LPDATA	C	001	097C	0458	
LPIMAG	C	001	0800	0457	
MAXMSK	A	043	0EB5	0384	0261 0288
MAXMS1	A	014	0E83	0382	
MAXMS2	A	007	0E8A	0383	0243* 0246* 0288
MAXVAL	A	008	0BCD	0169	0214* 0222 0224* 0246
MEDMSK	A	043	0E75	0381	0257
MEDMS1	A	014	0E43	0379	
MEDMS2	A	007	0F4A	0380	0242* 0245*
MEDVAL	A	008	0BEC	0175	0230* 0231 0231* 0236* 0240* 0245
MINMSK	A	043	0E35	0378	0253 0264
MINMS1	A	014	0E03	0376	
MINMS2	A	007	0E0A	0377	0241* 0244* 0264
MINVAL	A	008	0BD6	0171	0213* 0218 0220* 0244
NTRDY1	A	004	0A6C	0051	0034 0047 0339 0352
NUMREV	A	004	0B65	0129	0125
ONCE	A	003	0C24	0212	0188* 0207 0215*
ONE	A	002	0BE3	0162	0126 0151 0206
PACK	C	001	0226	0454	
PNTRDY	A	023	12E1	0417	0054
PRINT	C	001	021A	0451	0027 0051 0060 0089 0105 0131 0137 0250 0254 0258 0266 0271 0279 0290 0295 0303 0332
PRINT1	A	044	0AEE	0087	0092
PROGID	C	001	0A01	0460	
FSR	C	001	0004	0431	
P1IAR	C	001	0020	0432	
P2IAR	C	001	0040	0433	
RBUSY1	A	004	0A61	0046	0046
RBUSY2	A	004	0CE1	0351	0351
RD	A	002	12E7	0420	0044 0349
RDIT	A	001	12EC	0423	0031* 0336* 0420
READIN	A	001	1316	0469	0418
RECAL1	A	004	0A7F	0060	0043 0348
RECL	A	002	12E5	0419	0036 0341
RETER	A	004	0A8F	0067	0032* 0058 0337*
RETRY	A	004	0AA3	0076	0096 0361
RETRY2	A	004	0D73	0332	0329
RNUM	C	001	0AC3	0462	
RTN01	A	001	0A10	0019	0012
RTN02	A	001	0D5C	0318	0021
SAVXR1	A	002	0BEF	0177	0147* 0148
SAVXR2	A	002	0BF1	0178	
SBUSY1	A	004	0743	0038	0038
SBUSY2	A	004	0892	0343	0343
SBYTE0	C	001	0208	0443	0099 0129

AOD1 DISK REVOLUTION TEST

CROSS-REFERENCE

SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
SBYTE1	C	001	0209	0444	
SBYTE2	C	001	020A	0445	
SBYTE3	C	001	020B	0446	0023 0326
SBYTE4	C	001	020C	0447	
SBYTE5	C	001	020D	0448	
SEEK1	A	004	0A47	0039	0041
SEEK2	A	004	0D96	0344	0346
SEEK0	A	001	12E8	0421	0419
SETNUM	A	006	0B42	0121	0119 0127
SIZE	C	001	0203	0441	
SLOHLT	A	004	0D52	0309	
SLOPRT	A	002	0D30	0298	0299 0301* 0307*
SLOPR1	A	004	0D1F	0290	
SLOPR2	A	004	0D29	0295	0302
SLOPR3	A	004	0D44	0303	0300
SNOD	C	001	0202	0440	
SPFLGS	C	001	0A02	0461	
SPT	C	001	0A00	0459	
SPUDT	C	001	0A0A	0465	
SRT	C	001	0200	0439	
START1	A	004	0A97	0072	0048 0070 0071 0072 0354 0355 0358 0366
START2	A	004	0CE9	0358	0367
SWDISK	A	003	0BA3	0152	0074* 0360*
SWSET1	A	002	0F06	0389	0121
SW7SKP	A	006	0B25	0115	0102
TABADR	C	001	0A09	0464	
TABLE1	A	001	1416	0470	0145 0181 0190
TEST	C	001	0212	0449	
TESTA1	A	004	0A14	0023	0068
TESTA2	A	004	0D60	0326	0067
TESTB1	A	004	0A2C	0031	
TESTB2	A	004	0D7B	0336	
TEST01	A	044	0F02	0387	0108
TOTREV	A	004	0ED6	0386	0116* 0122* 0134 0140 0225*
TOTRE1	A	029	0ED2	0385	
TOTVAL	A	012	0BE3	0173	0217* 0234* 0240
TSTEIT	A	004	0B9F	0151	0154
TWO	A	002	0BB5	0163	0146 0150
UNPACK	C	001	021E	0452	
UTAE	C	001	0232	0456	
WORK	A	008	0DF3	0374	0101* 0114* 0118 0120* 0124 0126* 0204* 0208* 0213 0214 0217 0218 0220 0222 0224
XA090	A	002	0F04	0388	
XD4FF	A	002	0ABC	0083	0076
XR1	C	001	0001	0427	0070 0145* 0146* 0147 0150 0151 0190* 0205 0205* 0206 0354
XR2	C	001	0002	0428	0071 0076 0076 0077 0077 0079 0080 0143 0144* 0150 0151 0152 0153 0154 0156 0355
X0001	A	002	0ABE	0084	0077
X0032	A	002	12C2	0412	0277 0301
X0035	A	002	0DF5	0375	

TOTAL STATEMENTS FLAGGED IN THIS ASSEMBLY = 0

A0D1 DISK REVOLUTION TEST

OBJECT CARD LISTING

CL 1 THROUGH 16	CL 17 THROUGH 32	CL 33 THROUGH 48	CL 49 THROUGH 64	CL 65 THROUGH 80	CL 81 THROUGH 96
T+-@J8%PL1* TE+	H1MCN9(LB1)V 5XR	6*PV5_ U8@X05;I	8'R 0%N 8@XM1*K	-U CH@ G0@E1*PE1	*E(E N2-A0D10022
T+-'<0;)' 6*PVE+	I5<N 0*.09*N 5<G	XE+ 04@PER0)PC1MC	C0;LS1*J 0>/:;E1	*PE1*EDA @N5 8_	I5'* MJ4A0D10023
T+-=G2)PG&<.E4=(EDA EDA EDA EDA	EDA EDA EDA EDA	E1*PE1*EDA @V5	9_\$R5MCB1*GR2)P	G8U N/HA0D10024
T+-"EEDA EDA EDA	EDA EDA EDA EDA	EDA E1*PE1*EDA	EDA @U?1PMC5>	06MA EDA EDA EDA	ED -*UA0D10025
T+-"'EDA EDA EDA	EDA EDA E1*PE1	*EDA EDA @U?2PMC	I1(E6MCP9(L1;/	EDA EDA EDA EDA	ED =RYA0D10026
T+/'8EDA EDA E1	*PE1*EDA EDA @U?	3PMCL0;TS2<GF84C	P9(L1;/ EDA EDA	EDA EDA EDA EDA	PE0 -R&A0E10027
T+/'A3PE1*EDA EDA	@U?4PMCS5@XN1(EE(-U4' E:DA EDA	EDA EJA EDA EDA	EDA PE1*PE1 EDC	3PM 0- A0D10028
T+/'B>1<PF1* T2;P	EE(LO8'\$REDA EDA	EDA EDA EDA EDA	EDA EDA PE1*PE1	EDC4PMCW6)\$N14C	P9(< 0,&A0D10029
T+/'CZ4@PYK4C6@<T	ZE(-U4' E:DC05MC	5@<TZ&(LO8'\$RPE1	*PE1 EDA EDC4K"E)E;P02+V 5=LL4@P	Y&G8 Q84A0D10030
T+/'DU@ E.'-G7&D9	-ED?0@ I 2)PC2DA	PE1*PE1 EDA EDC	4K"I)E \$02+V 5=L	L4@PY&G9 @M?2'?A	LW Q0MA0D10031
T+/'E-ED?0@ I 2)P	C2DA PE1*PE1 EDC	5PMCW6)\$N14CM5>	06MA-E \$02+V 5(\$	T5_V 5_N '-CH-MC	P5>Q 9BUA0D10032
T+/'E1)V PE1*PE1	EDC6PMCI5*LE9@X	N14CP9(S1MCB1)	09UCS5@PCE(\$RE(L	I8>.I5*) EDA*PE1	*PD JYHA0D10033
T+/'GN5<XNE(XE9MC	T2)LEE<.E4'\$WE(L	I5MCT5_ E6*GN0@N	0@GU8%PDE<.Y;UA	*PE1*PDA @ E)E+\$	R5_M 2Y8A0D10034
T+/'H&14CP9(L1;/	.E P02+V 5=LL4@P	YE(\$N& \$02+V 5(\$	T5_V*PE1*PDA EDA	@ E.@N5 '-CH:MC	P9(< 4:MA0D10035
T+/'I.4@PY&G9 @M?	5@-) LWA K"CO@UC	I5* H&DA*PE1*PDA	EDA @ E.@V5 '?C	H:MCP9(L1;/ -UC	1K"H 7.MA0D10036
T+/'HF'?A LWA K"C	0@UCI5* H&DA*PE1	*PDA @ I)E+\$R5_P	G&(LO8'\$REFA '-C	H:MCM5> 06MCO5MC	6@<-*\$YA0D10037
T+/'A:MCP5>\$E6MA	*PE1*PDA @ ()E<X	N1<PX2)PGE(-U4=.	EE+ 05UCL5_PGE(\$	R&+T9< K&(\$N&DA	'S \$SHA0D10038
T+/'@</H+D--JQ-'	>1<XS4UCN5>('6*P	A1+/'5_V 1)XR5_U	LE/.YD>0 'C" 'C	'<LI3_I 5)ST&<	A4@U P&@A0D10039
TFA<NO_XA8@PDK4C	R1* A4@XB6*GT1MC	D2;.KK0			-2*A0D10040
*****	*****	*****	*****	*****	*****PE A0D10041
* SELECT THE NUM	BER OF REVOLUTIO	NS TO BE TIMED O	N THE TWO RIGHTM	OST ADDRESS SWIT	CHES*8CQA0D10042
* WHEN HALT -F9-	DISPLAYED. RESE	T HALT AFTER DEL	ECTING THE NUMBE	R OF REVOLUTIONS	TO *8DDA0D10043

A0D1 DISK REVCLUTION TEST

OBJECT CARD LISTING

CL 1 THROUGH 16	CL 17 THROUGH 32	CL 33 THROUGH 48	CL 49 THROUGH 64	CL 65 THROUGH 80	CL 81 THROUGH 96
* BE TIMED. THE	DEFAULT IS TIMIN	G 100 REVOLUTION	S.		*4C0A0D10044
*****	*****	*****	*****	*****	*****P&A0D10045
* DATA I NU	MBER I APPROXIM	ATE TIME * DAT	A I NUMBER	I APPROXIMATE T	IME *P&A0D10046
* SWITCH I CF	REV I TO COMP	LETE THE * SWI	TCH I OF REV	I TO COMPLETE T	HE *P&QA0D10047
* ENTRY I TE	STED I CALCU	LATION * ENT	RY I TESTED	I CALCULATION	*P&UA0D10048
-----+-----	-----+-----	----------	-----+-----	-----+-----	-----*P&-A0D10049
* 00-01 I	100 I	12 SEC * 0	9 I 900	I 1 MIN 43 SE	C *PA0A0D10050
* 02 I	200 I	25 SEC * 0	A I 1000	I 1 MIN 55 SE	C *7L2A0D10051
* 03 I	300 I	36 SEC * 0	B I 1100	I 2 MIN 06 SE	C *7C-A0D10052
* 04 I	400 I	48 SEC * 0	C I 1200	I 2 MIN 17 SE	C *4L2A0D10053
* 05 I	500 I	59 SEC * 0	D I 1300	I 2 MIN 28 SE	C *6LYA0D10054
* 06 I	600 I 1 MIN	10 SEC * 0	E I 1400	I 2 MIN 39 SE	C *R**A0D10055
* 07 I	700 I 1 MIN	21 SEC * 0	F I 1500	I 2 MIN 50 SE	C *\$\$DA0D10056
* 08 I	800 I 1 MIN	32 SEC * 10-	FF I DEFAULT -	ONLY TIME 100 R	EV *6.2A0D10057
*****	*****	*****	*****	*****	*****P UA0D10058
E***E7*=-DC"PH\$	=7M&F C	F% ASC R A	SO Q	11540501700	611711#MA0D10059

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