

1401 Subroutine #11
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DISK OPERATION AND ERROR SUBROUTINE WITH MINIMUM SEEK FEATURE

Sector, Move Mode, Arm 0

The Disk Operation and Error Subroutine for Sector, Move Mode, is similar to Subroutine #4, except that it is used for sector (200-digit) rather than full track (1,000-digit) operations. Matters pertaining to core space requirements and modifications are identical to those specified in the description of Subroutine #4.

The Subroutine is entered by the following branch instructions:

B SEEKSC	Seek Disk if necessary
B READSC	Seek Disk if necessary and Read Disk Single Record
B WRITSC	Seek Disk if necessary, Write Disk Single Record, and Write Disk Check

PG	LIN	CT	LABEL	OP	A OPERAND	B OPERAND	D	LOC	ERROR NOTES	COMMENTS
					NO CONTROL CARD					
010	4		ISEEKSC	SBR	TOMAIN&003					DISK SUBROUTINE
020	7			C	RA	-002		RASTRR		
030	5			B	TOMAIN				S	
040	8		SKDKYY	MCW	%F0		RA	-007	R	SECTOR
050	5			B	TEST9Y				N	MOVE MODE
060	1			NOP						SUBROUTINE #11
070	4		BSEEKY	B	BLANCT					
080	1			NOP						
090	4		BREADY	B	RDDKYY					
100	4			B	WRITEY					
110	8		DKCKYY	MCW	%F3		RA	-007	W	
120	8		TEST9Y	B	HALTY		COUNYY		9	
130	8			A	ONEYYY		COUNYY			
140	4			B	SKDKYY					
150	1		HALTY	H						DISK ERROR HALT
160	4		READSC	SBR	TOMAIN&003					
170	4			CW	BSEEKY					
180	7			C	RA	-002		RASTRR		
190	5			B	SKDKYY				/	
200	8		RDDKYY	MCW	%F1		RA	-007	R	
210	4			B	TESTYY					
220	4		WRITSC	SBR	TOMAIN&003					
230	7			CW	BSEEKY			BREADY		
240	7			C	RA	-002		RASTRR		
250	5			B	SKDKYY				/	
260	7		WRITEY	C	RA	-001		HIGHTK		
270	5			B	HALTY				T	
280	7			C	RA	-001		LOWTK		
290	5			B	HALTY				U	
300	8			MCW	%F1		RA	-007	W	
310	5			B	DKCKYY				Y	
320	8			MCW	%F3		RA	-007	W	
330	5		TESTYY	B	TEST9Y				Y	
340	7		BLANCT	MCW	ONEYYY		COUNYY			
350	7			SW	BSEEKY			BREADY		
360	7			MCW	RA	-002		RASTRR		
370	4		TOMAIN	B	.0000					
380	1		COUNYY	DCW	*					
390	1		ONEYYY	DCW	*				1	
400	4		RASTRR	DCW	*					0539

PRECAUTION

For computers with the indexing feature and with less than 16,000 digits of core storage, the Subroutine should be assembled between locations 1 and 999.