

OPERATION CODE	INSTRUCTION	TRANSMISSION STOPPED BY	REQUIRED WORD MARKS	CAN INST. BE CHAINED	CONTENTS OF REGISTERS AT COMP. OF OPERATION			REMARKS
					I	A	B	
Q (A)	Store A-Address Register			No	NSI	A-3	Ap	Stores contents of A-address register in A-address
K d	Select Stacker			No	NSI	dbb	dbb	
N	No Operation			No	NSI	Ap	Bp	Program resumes at next Op code with a WM
H (A)	Store B-Address Register			No	NSI	A-3	Bp	Stores contents of B-address register in A-address
/ (A)	Clear Storage	Stops at hundreds position of storage block involved		Yes	NSI	A	X-001	
•	Halt			No	NSI	Ap	Bp	Press start key to resume operation
# (A) (B)	Modify Address	This is a 3-position Add operation		No	NSI	A-3	B-1 or B-3	
M (% UX) (B) R	Read Tape	Inter-record gap or GM-WM in storage		No	NSI	% 4X	GM + 1	GM is inserted in storage after last character is read from tape
M (% UX) (B) W	Write Tape	GM-WM		No	NSI	% 4X	GM + 1	
L (% UX) (B) R	Read Tape with Word Marks	Inter-record gap with a GM-WM in storage		No	NSI	% 4X	GM + 1	Word separator characters are translated into WM in storage
L (% UX) (B) W	Write Tape with Word Marks	GM-WM		No	NSI	% 4X	GM + 1	WM in storage are written on tape as Word Separator Characters
M (% CX) (B) R	Read Compressed Tape	Inter-record gap		No	NSI	% 3X	B + L _{RECORD}	
P (A) (B)	Move Characters to Record Mark or GM-WM	GM-WM or record mark in A-field		Yes	NSI	A + LA	B + LA	WM are not moved or cleared
X (A) (B)	Move and Insert Zeros	GM-WM to left of high-order position of A-field	High-order position of expanded fields	No	NSI	A-field GM-WM	A-field GM-WM	
M (% FO) (B) R	Seek Disk		GM-WM in B + 8	No	NSI	B + 1	B + 8	Sends access arm to proper disk and track
M (% FX) (B) R	Read Disk	End of sector (1 or 5)	GM-WM mark in B + 8 and B + 209	No	NSI	B + 1	B + 210	Can READ 1 or 5 sectors depending on X-character in A-address
M (% FX) (B) W	Write Disk	End of sector (1 or 5)	GM-WM in B + 8 and B + 209	No	NSI	B + 1	B + 210	Can WRITE 1 or 5 sectors depending on X-character in A-address
L (% FX) (B) R	Read Disk with Word Marks	End of sector (1 or 5)	GM-WM in B + 8 and B + 185	No	NSI	B + 1	B + 186	176 characters and word marks are read from a sector
L (% FX) (B) W	Write Disk with Word Marks	End of sector (1 or 5)	GM-WM in B + 8 and B + 185	No	NSI	B + 1	B + 186	176 characters and word marks are written on a sector
M (% F3) (B) W	Write Disk Check	End of sector (1 or 5)	GM-WM in B + 8 and B + 209	No	NSI	B + 1	B + 210	A char. by char. comparison is made of the data in storage with the disk record
L (% F3) (B) W	Write Disk Check	End of sector (1 or 5)	GM-WM in B + 8 and B + 185	No	NSI	B + 1	B + 186	A char. by char. comparison is made of the data in storage with the disk record
M (% T0) (B) R	Read from Console Printer	GM-WM or pressing Clear key		No	NSI	% 30	B + LB	Inquiry Request indicator must be ON
M (% T0) (B) W	Write On Console Printer	GM-WM in core storage		No	NSI	% 30	B + LB	
L (% T0) (B) R	Read from Console Printer with WM	GM-WM or pressing Clear key		No	NSI	% 30	B + LB	Word marks are entered by pressing WM key
L (% T0) (B) W	Write On Console Printer with WM	GM-WM in core storage		No	NSI	% 30	B + LB	Characters with a WM are printed in red
M (% T0) (B) W	Line Space	GM-WM	GM-WM at B-Address	No	NSI	% 30	B + 1	

KEY TO ABBREVIATIONS

A	A-address of the instruction	LD	The number of characters in a disk record
B	B-address of the instruction	LW	The number of characters in the A- or B-field, whichever is smaller
NSI	Address of the next sequential instruction	Ap	The previous setting of the A-address register
BI	Address of the next instruction if a branch occurs	Bp	The previous setting of the B-address register
LA	The number of characters in the A-field	dbb	The d-character and blank in the units and tens positions
LB	The number of characters in the B-field	dpp	The d-character and the tens and units positions of the previous register setting
LC	The number of characters in multiplicand field	GM-WM	Group-Mark with a Word-Mark