

DESIGNATIONS OF IN-OUT EQUIPMENT
(si addresses for all units)

UNIT	MODE OF OPERATION	<u>si</u> ADDRESS				UNIT	MODE OF OPERATION	<u>si</u> ADDRESS		
MAGNETIC TAPE (BLOCK OPERATION ^o)	RE-RECORD, FORWARD	MT0 100(o) 64(o)	MT1 110(o) 72(o)	MT2 120(o) 80(o)	MT3 130(o) 88(o)	AUXILIARY DRUM*	READ, NO CHANGE IN ADDRESS SEQUENCE	700(o) 448(o)		
	RE-RECORD, REVERSE	101(o) 65(o)	111(o) 73(o)	121(o) 81(o)	131(o) 89(o)		READ, SELECT NEW INITIAL ANGULAR POSITION	701(o) 449(o)		
	READ, FORWARD	102(o) 66(o)	112(o) 74(o)	122(o) 82(o)	132(o) 90(o)		READ, SELECT NEW GROUP	702(o) 450(o)		
	READ, REVERSE	103(o) 67(o)	113(o) 75(o)	123(o) 83(o)	133(o) 91(o)		READ, SELECT NEW INITIAL ADDRESS (GROUP AND ANGULAR POSITION)	703(o) 451(o)		
	STOP AFTER RECORD, FORWARD	104(o) 68(o)	114(o) 76(o)	124(o) 84(o)	134(o) 92(o)		RECORD, NO CHANGE IN ADDRESS SEQUENCE	704(o) 452(o)		
	STOP AFTER RECORD, REVERSE	105(o) 69(o)	115(o) 77(o)	125(o) 85(o)	135(o) 93(o)		RECORD, SELECT NEW INITIAL ANGULAR POSITION	705(o) 453(o)		
	RECORD, FORWARD	106(o) 70(o)	116(o) 78(o)	126(o) 86(o)	136(o) 94(o)		RECORD, SELECT NEW GROUP	706(o) 454(o)		
	RECORD, REVERSE	107(o) 71(o)	117(o) 79(o)	127(o) 87(o)	137(o) 95(o)		RECORD, SELECT NEW INITIAL ADDRESS (GROUP AND ANGULAR POSITION)	707(o) 455(o)		
	RECORD**, FORWARD FOR PRINT-OUT	108(o) 72(o)	118(o) 80(o)	128(o) 88(o)	138(o) 96(o)		BUFFER DRUM*	READ, NO CHANGE IN ADDRESS SEQUENCE	710(o) 456(o)	
	RECORD**, REVERSE FOR PRINT-OUT	109(o) 73(o)	119(o) 81(o)	129(o) 89(o)	139(o) 97(o)			READ, SELECT NEW INITIAL ANGULAR POSITION	711(o) 457(o)	
	PAPER TAPE READERS (PTR)	READ, NORMAL ^{oo} L x L ^o	PTR0 (MECH. READER)		PTR1 (FERRANTI READER)			READ, SELECT NEW GROUP	712(o) 458(o)	
		READ AUTO. ASSEMBLY ^{oo} L x L ^o	200(o) 128(o)		-----			READ, SELECT NEW INITIAL ADDRESS (GROUP AND ANGULAR POSITION)	713(o) 459(o)	
READ, NORMAL ^{oo} BLOCK ^o		-----		211(o) 137(o)		RECORD, NO CHANGE IN ADDRESS SEQUENCE	714(o) 460(o)			
READ, AUTO. ASSEMBLY ^{oo} BLOCK ^o		-----		213(o) 139(o)		RECORD, SELECT NEW INITIAL ANGULAR POSITION	715(o) 461(o)			
PUNCH		RECORD, NORMAL ^{oo} 7TH HOLE SUPPRESSED	204(o) 132(o)		-----		RECORD, SELECT NEW GROUP	716(o) 462(o)		
	RECORD, NORMAL ^{oo} 7TH HOLE PUNCHED	205(o) 133(o)		-----		RECORD, SELECT NEW INITIAL ADDRESS (GROUP AND ANGULAR POSITION)	717(o) 463(o)			
	RECORD AUTO. ASSY. ^{oo} 7TH HOLE SUPPRESSED	206(o) 134(o)		-----		SWITCH FIELDS	734(o) 476(o)			
	RECORD AUTO. ASSY. ^{oo} 7TH HOLE PUNCHED	207(o) 135(o)		-----		CAMERA	INDEX CAMERA 004			
	PRINTERS	PRINTER 2 : PRINTER 3 (COMPUTER RM.) (NOT IN USE)	-----				OUTPUT CODER	RECORD 006		
RECORD		225(o) 149(o)		235(o) 157(o)		SWITCH TO PB	000			
INTERVENTION REGISTERS	REGISTERS 0 & 1 (ACTIVATE)	300 & 304(o) 192 & 193(o)		REGISTERS 2 TO 31 (INSERTION) 302 TO 337(o) 194 TO 223(o)		CONDITION SWITCH TO PB	001			
	READ	300 & 304(o) 192 & 193(o)		302 TO 337(o) 194 TO 223(o)		UNCONDITIONAL FF REGISTER RESET	010(o) 008(o)			
MITE BUFFER STORAGE	CLEAR ALL FF's	401(o) 257(o)				PROGRAM MARGINAL CHECKING	EXCURSION INDICATION	002		
	COMPLEMENT ALL COUNTERS AND REGISTERS	433(o) 283(o)					LINE SELECTION	003		
	SET ALL REF. MEMORIES AND TIMING SYNC.	413(o) 267(o)					RELEASE STEP MODE	013(o) 011(o)		
	SET ALL DATA MEMORIES AND TIMING SYNC.	423(o) 275(o)				IN-OUT CHECK	MAPPER NORTH	017(o) 015(o)		
	SET "RECORD WHILE READING" SYNC.	411(o) 265(o)					ACTIVATE REGISTERS TO ONES	504(o) 324(o)		
	SET RECORD SYNC. (SUCCEEDING SLOT 7 PULSE SETS ALL MEMORIES)	421(o) 273(o)					READ INDICATOR LIGHT REGISTERS	501(o) 321(o)		
	SET RECORD SYNC. (SUCCEEDING SLOT 7 PULSE SETS ALL DATA SYNC.)	431(o) 281(o)					ACTIVATE ALL LIGHT GUNS	505(o) 325(o)		
REAL-TIME CLOCK (TIMING REGISTER)	FINE COUNT	005				CLEAR ALL INTERVENTION REGISTERS AND DISPLAY SWITCHES	500(o) 320(o)			
	COARSE COUNT	007				SET ALL INTERVENTION REGISTERS AND DISPLAY SWITCHES	502(o) 322(o)			
	CLEAR	011(o) 009(o)				CHANGE ROOM 222 + 5 VOLTS TO +10 VOLTS	506(o) 326(o)			
	COMPLEMENT	012(o) 010(o)				CHANGE ROOM 222 + 5 VOLTS TO GROUND	507(o) 327(o)			
	INDICATOR LIGHT REGISTERS	RECORD	REGISTERS 0 TO 7 510 TO 517 (o) 328 TO 335 (o)				RELEASE ALL TEST RELAYS	503(o) 323(o)		
DISPLAY SCOPES		DISPLAY POINTS	0600 TO 0677(o) 384 TO 447(o)		CROSSTEL. OUTPUT CODER		SEND REFERENCE	420(o) 272(o)		
		DISPLAY VECTORS	1600 TO 1677(o) 896 TO 959(o)		SEND ONE		410(o) 264(o)			
DISPLAY CHARACTERS	2600 TO 2677, 3600 TO 3677(o) 1408 TO 1471, 1920 TO 1983(o)		SEND ZERO		400(o) 256(o)					
						RAYDIST	016(o) 014(o)			
						*ADD 1000(o), 512(o), TO THE DRUM <u>si</u> ADDRESS TO ENABLE THE SAR END CARRY TO ADD ONE TO THE GSR.				
						**PRINT OUT IS ONLY USEFUL WITH MT2 AND MT3.				
						o IN L x L OPERATION THE UNIT STOPS AFTER EACH READ.				
						IN BLOCK OPERATION THE UNIT CONTINUES TO SUPPLY INFORMATION TO THE COMPUTER UNTIL THE UNIT IS STOPPED BY ANOTHER <u>si</u> COMMAND.				
						oo IN THE NORMAL MODE OF OPERATION ONE LINE IS READ IN ON EACH IO OPERATION. IN THE AUTOMATIC ASSEMBLY MODE OF OPERATION THREE LINES ARE READ AND AUTOMATICALLY ASSEMBLED INTO A COMPUTER WORD.				