

MOD "C"
29 WIRING DIAGRAM INDEX.

NAME	SECTION	PART No
POWER SUPPLY 60 CYCLE		5373568
POWER SUPPLY 50 CYCLE		8108650
NUM KYBD-INTERPOSER MAG-PIN SENSE	1 & 2	5405972
64 CHARACTER KEYBOARD	3 & 4	5405944
CARD FEED-PROG SELECT-PRINT	5 & 6	5405978
DUP-CLEAR-RELEASE-CARD LEVER	7 & 8	5405977
PCH CLUTCH-MP-ALPHA-KYBD RESTORE	9 & 10	5405918
SKIP-ESCAPE MAG	11 & 12	5405975
COMPONENT LOCATION	13 & 14	5405976
KEYBOARD & CAM REFERENCE		5373561
PRINT-SMS CARD		375105
ARC SUPP - SMS CARD		375233
COMBINATION KYBD CODE CHART		5367164
NUMERIC KYBD CODE CHART		5367184

FOR ENGINEERING USE
PREVIOUS ASSIGNED PAGE(S) PART NUMBER(S)
INDEX PAGE(S) P/N — 5406601

LOGIC PAGE(S) P/N — 5405914, 5405973, 5405974.

REPLACED BY PART NUMBER(S) 5405918, 5405977, 5405978.

NOTES:

- XI PART Nos 5406601 THRU 5406650
ARE RESERVED FOR MODEL "C"
INDEX PAGES (ENG NOTE)
- XII LAST BALLOON USED ⁷⁵
NOT USED 11, 24, 26, 40 - 49, 55 - 73, 75
(ENG NOTE)

IBM UNITED KINGDOM LTD	DATE	CHANGE No	DATE	CHANGE No	NOTE	DEVELOPMENT No
NAME SYSTEMS DIAGRAM	20.DEC.68	EC: 206435			X.PRINT TO ENG SPEC No 895291	5406602
W.D. INDEX	03.APR.70	EC: 920064				
DESIGN						
DETAIL						
CHECK						
APPROV						
	DRAW	ES	09 JAN 67			
	CHECK					

IF REFERENCE NEEDS TO BE MADE TO THE KEYBOARD
LOGIC PAGES, ENSURE THAT THE P/N AND EC LEVEL OF
LOGIC PAGES USED CORRESPOND TO THOSE GIVEN ON
THE MACHINE INDEX CARD.

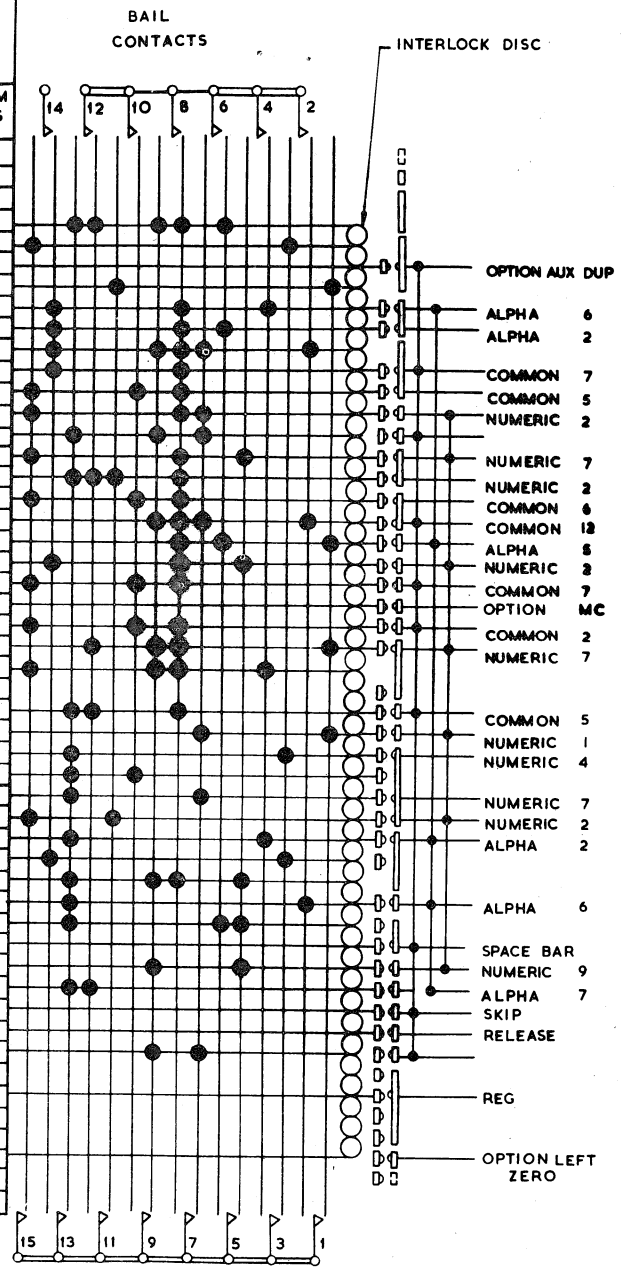
THIS IS NECESSARY BECAUSE, DUE TO STANDARDISATION,
ALL TYPE KEYBOARD LOGICS ARE SENT WITH EACH
MACHINE.

CODE CHART KEYBOARD

ALPHA PUNCH CODES		NUM PUNCH CODES		LATCH OUTPUT N A L P H A		BAIL CONTACTS	
8	11	8	6	12		13	12
1	12					9	8
						6	6
						15	3
9	0				AUX DUP		11
6	0	8	5	0		6	14
2	0	8	6	0		2	14
8	4	0	8	3	0		14
7	0	8	7	0	7	7	14
5	12	8	5	11	5	5	15
4	12	8	2	2	2		15
8	4	11					13
3	12	8	7	7	7		13
9	11	8	2	12	2		13
6	12	8	6	11	6	6	15
8	4	12	8	3	12	12	12
5	0	8	6	6	5		9
3	0	8	2	0	2		8
7	12	8	7	11	7	7	15
					M C		
2	12	8	2	11	2	2	15
8	0	8	7	12	7		12
8	12	8	5				15
5	11	8	5	12	5	5	13
4	0		1	1			7
1	11		4	4			13
	11		11				13
4	11		7	7			13
9	12		2	2			15
2	11		5	2			13
1	0		0				14
11	8	3	8				13
6	11		3		6		13
3	11		6				13
					SPACE		
8	3		9	9			9
7	11		12	7			13
					SKIP REL		
8	4						9
					REG		
					LEFT ZERO		

KEYSYSTEM CONT N/O	KEYSYSTEM CONT N/C	LATCH OR KEY STEM LOCATED	KEYBUTTON CHART		STEM POS
			CHARACTER NOTE X	SWEDISH FINISH ARR. F	
			ERROR RESET		1
	12B		MULT PCH.		2
	12B		NUMERIC		3
			+ Q		4
			#		5
			AUX DUP		6
			Z		7
			- W		8
			> S		9
			%		10
			? X		11
			E		12
			: D		13
			\$ #		14
			" C		15
			⌘ R		16
			.. F		17
			< L		18
			= V		19
			0-2-8 T		20
			G		21
	6 A		M C		22
			! B		23
			Y		24
			H		25
	9 A		DUP		26
			(N		27
			U		28
			J		29
			-		30
			M		31
			I		32
			K		33
			/		34
			A		35
			3 O		36
			L		37
	1 A		SPACE BAR		38
			X		39
			P		40
	1 A		SKIP		41
	5 B		REL		42
	2 B				43
	5 A		FEED		44
	5 A		REG		45
	7 A		PROG TWO		46
	11 B		ALPHA		47
	19 A		LEFT ZERO (2)STEMS		48
					49
	7 A		PROG ONE		50

KEYBUTTON LATCH & PERMUTATION CODE CHART *



BAIL CONTACTS

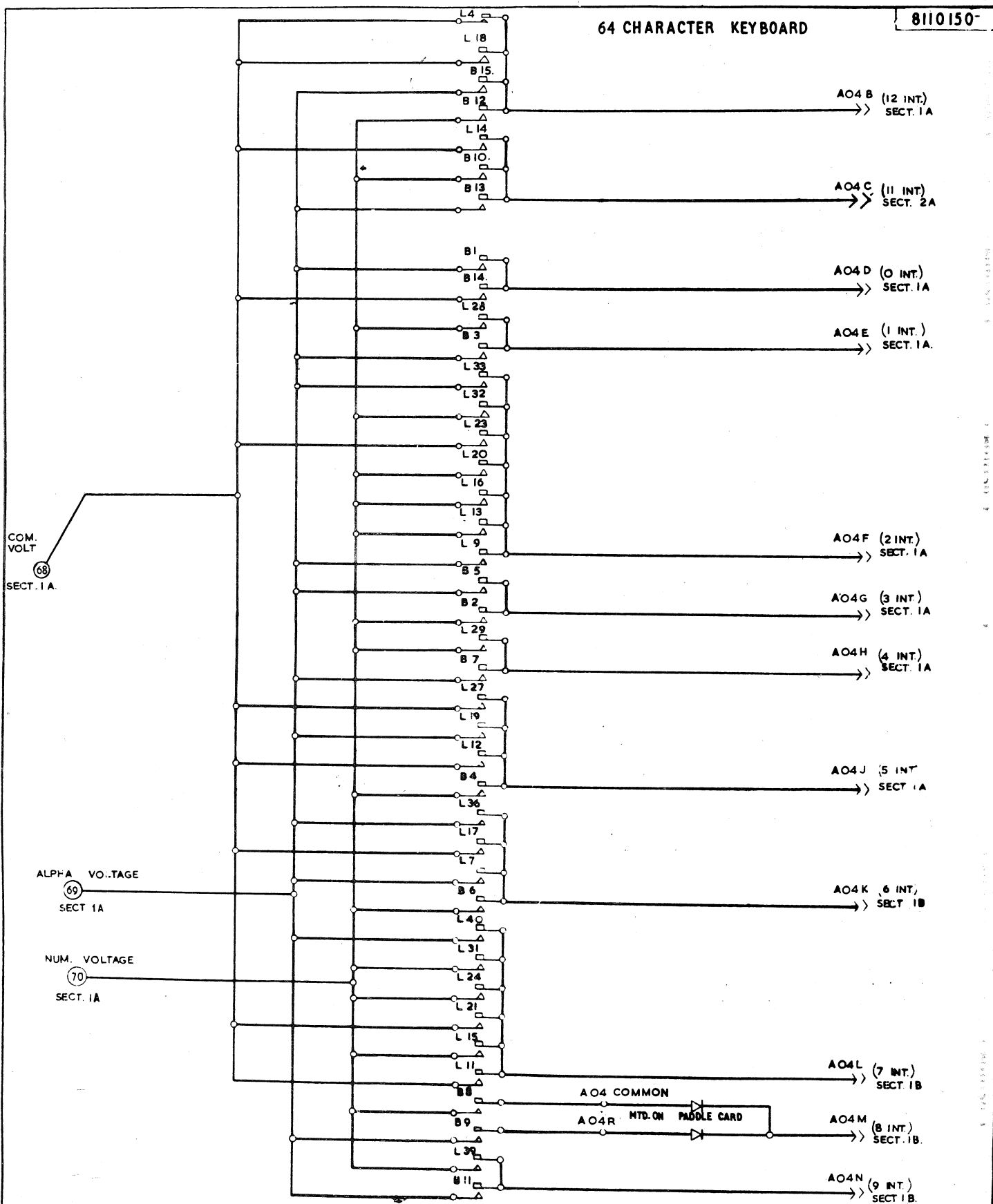
ARM ASM CONT.			
FUNCTION	PART No.	POS.	
ALPHA 0	8107742	1	
	8107743	2	
1	5367213	3	
	5367214	4	
3	5367215	5	
	5367216	6	
4	8107744	7	
	8107745	8	
8	8107884	9	
	5367220	10	
9	5367221	11	
	5367222	12	
11	8107746	13	
COMMON 0	5367224	14	
12	8107747	15	

NOTE
X...CHARACTERS MAY VARY ACCORDING
TO NATIONAL REQUIREMENTS

IBM UNITED KINGDOM LTD.		DATE	CHANGE No.	DATE	CHANGE No.	DEVELOPMENT No.
NAME SYSTEMS DIAGRAM		14.NOV.66	EC:940327			8107849
DESIGN	MODEL					
DETAIL						
CHECK	DRAW E.S. 17.OCT.66					
APPROV. P.P. 12.11.66	CHECK					

64 CHARACTER KEYBOARD

8110150-



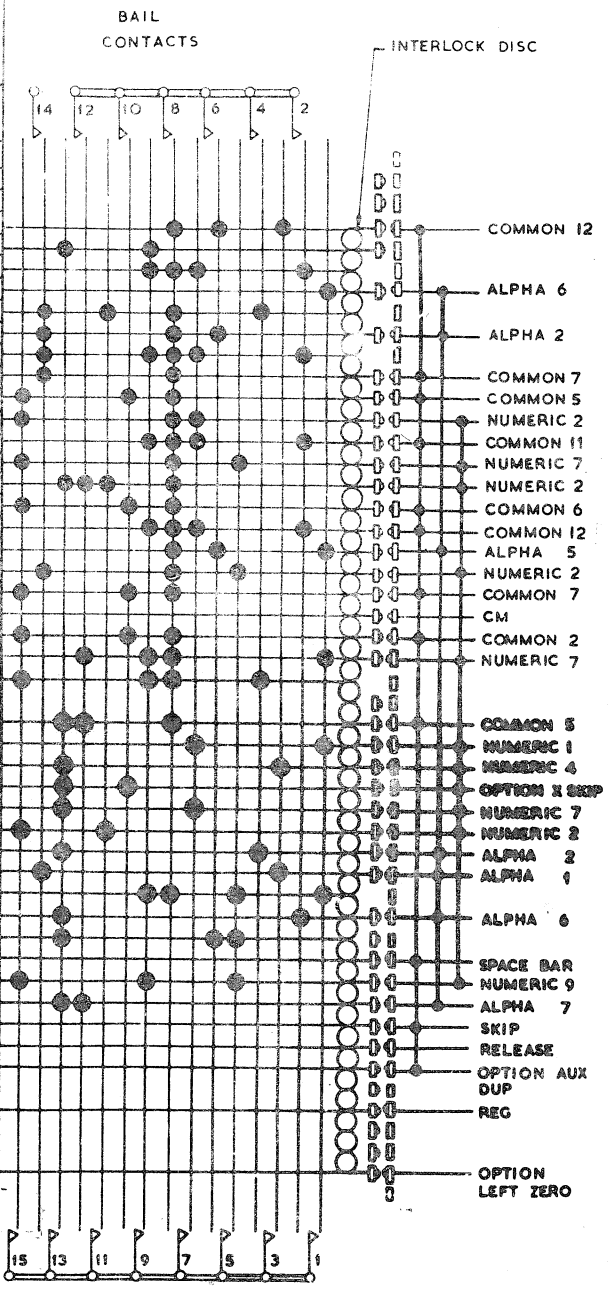
IBM UNITED KINGDOM LTD.	DATE	CHANGE No.	DATE	CHANGE No.	NOTE	DEVELOPMENT No.
SYSTEMS DIAGRAM	31 AUG 66	EC: 940183			NOTE X PRINT TO ENG. SPEC No. 895291	810150
05.29.03.1						
DESIGN						
DRAWN						
CHECKED						
APPROVED						
						05.29.03.1

CODE CHART KEYBOARD

ALPHA PUNCH CODES		NUM PUNCH CODES		LATCH OUTPUT		BAIL CONTACTS	
				N	A		
				U	L		
				M	P		
				H	H		
				A	A		
1	12	8	6	12	12	15	8 6 3
8	11						13 9
8	4		8	3			9 8 7 3 2
6	0				6		1
9	0	8	5	0		14 11 8 4	
2	0	8	6	0	2	14 8 6	
8	4	0	8	3	0	14 9 8 7 2	
7	0	8	7	0	7 7	14 8	
5	12	8	5	11	5 5	15 10 8	
4	12		8	2	2	15 8 7	
8	4	11	8	3	11	11 11	9 8 7 2
3	12		8	7	7		15 8 5
9	11	8	2	12	2	13 12 11 8	
6	12	8	6	11	6 6	15 10 8	
8	4	12	8	3	12	12 12	9 8 7 2
5	0		8	6	5		8 6 5 1
3	0	8	2	0	7		14 8 5
7	12	8	7	11	7 7		15 10 8
2	12	8	2	11	2 2	15 10 8	
8	0	8	7	12	7	12 9 8	1
8	12	8	5			15 9 8 4	
5	11	8	5	12	5 5	15 12 8	
4	0		1	1		7	1
1	11		4	4			13 3
	11		11				13 10
4	11		7	7			13 7
9	12		2	2			15 11
2	11		5	2			13 4
1	0		0				14 3
8	3	0		8		9 8 5	1
6	11		3		6		13 2
3	11		6			13 6 5	
8	3	12		9	9	15 9 8	
7	11		12		7	13 12	
				SKIP			
				REL			
				AUX DUP			
				REG			

LATCH OR KEYSTEM AQ2 MODEL	KEYSTEM CONT N/O	KEYSTEM CONT N/C	LATCH OR KEYSTEM LOCATED	KEYBUTTON CHART		STEM POS
				EL	CHARACTER NOTE X	
					ERROR RESET	1
9B	1	1	12 B		MULT PCH.	2
9B	1	1	12 B		NUMERIC	3
					+ A	4
					# Q	5
					W	6
					- Z	7
					V S	8
					° O	9
					? X	10
					E	11
					: D	12
					\$ *	13
					" C	14
					° R	15
					: F	16
					- ^	17
					= V	18
					0.28 T	19
					] G	20
				6A CM		21
					I B	22
					I Y	23
					V H	24
7A	-	9A	DUP		C M	25
					I U	26
					4 J	27
					- -	28
					7 M	29
					2 I	30
					5 K	31
					0 /	32
					8 2	33
					3 0	34
					6 L	35
4A		1A	SPACE BAR			36
					9 -	37
					8 P	38
4A		1A	SKIP			39
7B		5B	REL			40
						41
						42
5A	-	5A	FEED			43
5A	-	9A	REG			44
5A	-	7A	PROG TWO			45
9B	-	11B	ALPHA			46
16B		19A	LEFT ZERO (2) STEMS			47
						48
3A	-	7A	PROG ONE			49
						50

KEYBUTTON LATCH & PERMUTATION CODE CHART *

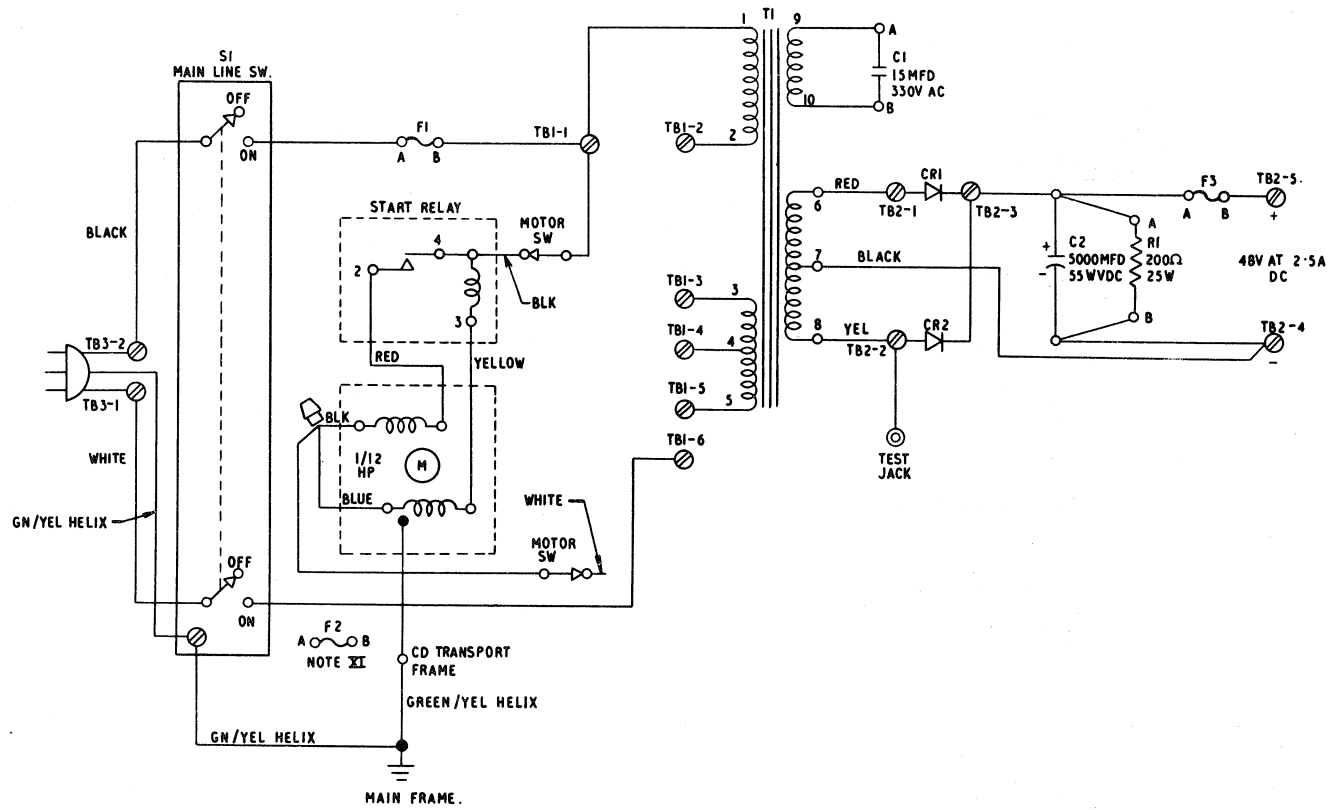


ARM ASM CONT.			
FUNCTION	PART No.	POS.	
ALPHA 0	NUMERIC	3367211	1
	3	3367212	2
1		8107891	3
	5	3367214	4
3		3367215	5
	6	3367216	6
4		3367217	7
	8	3367218	8
8		8107893	9
	11	3367220	10
9		8107894	11
	12	8107923	12
11		8107895	13
COMMON	0	3367224	14
12		8107896	15

NOTES
 X... CHARACTERS MAY VARY WITH NATIONAL REQUIREMENTS.

IBM UNITED KINGDOM LTD.	DATE	CHANGE No.	DATE	CHANGE No.	NOTE:	DEVELOPMENT No.
SYSTEMS DIAGRAM	24.FEB.66	TC:62670-E			X: PRINT TO ENG. SPEC.	
00.29.10.0	15.OCT.67	EC:940764			No. 895291.	
	18.MAR.68	EC:940972				

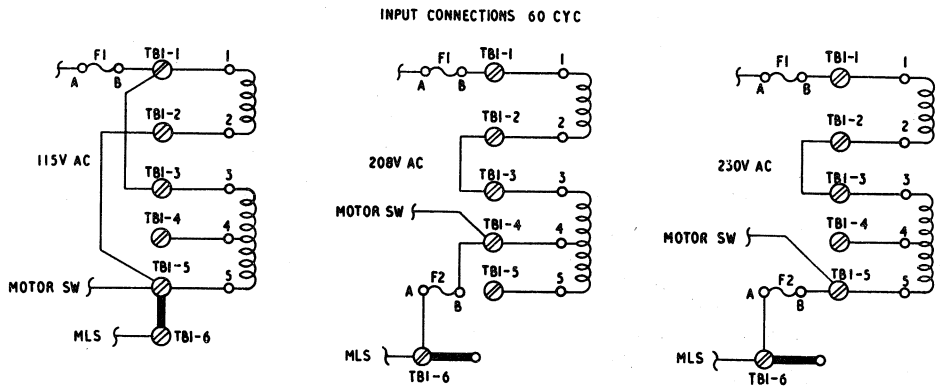
POWER SUPPLY 60 CYCLE
48V AT 2.5A POWER SUPPLY.



NAME	PART No.
TI	5404091
C1	1143069
C2	208222
CRI 2A	5404082
CR2 2A	5404082
RI	221110
SI	5372190

LONG TIME LAG FUSE			
FUSE	AMPS	PART No.	VOLTS AC
F1	4.0	107665	115
F1	2.0	92734	208
F1	2.0	92734	230
F2	2.0	92734	208
F2	2.0	92734	230

FUSE	AMPS	PART No.	VOLTS DC
F3	3	6324	48



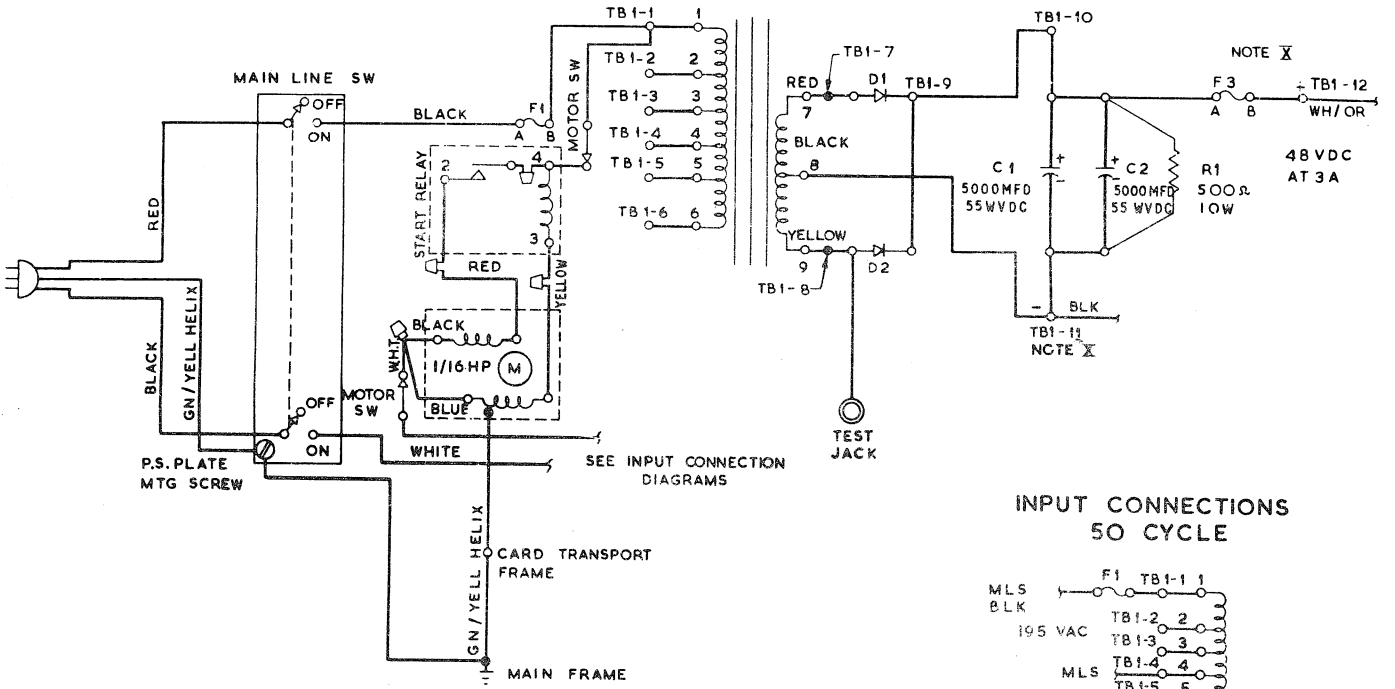
NOTES

❑ FOR 115V OPERATION F2 WILL NOT BE USED.

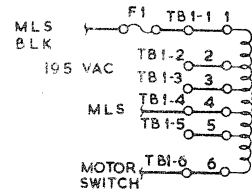
INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE No.	DATE	CHANGE No.	NOTE	DEVELOPMENT No.
NAME WIRING DIAGRAM		8-6-65	205329			X PRINT TO ENG. SPEC. No. 895291	5373568
48V. D.C. AT 2.5A			EC:205542				
DESIGN WT. 4-5-65 MODEL			RIMARCH66 TC:62709 -T				
CHECK LF 4-5-65 DRAW Icdl 30-4-65							
APPRO IRL 4-5-65 CHECK							02.29.01.1

8108650

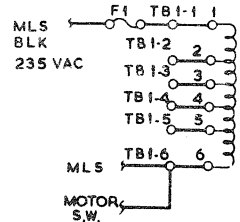
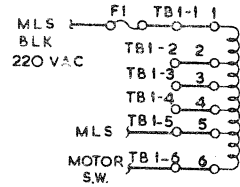
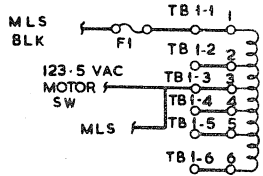
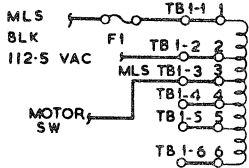
POWER SUPPLY 50 CYCLE



INPUT CONNECTIONS 50 CYCLE



INPUT CONNECTIONS 50 CYCLE



NAME	PART NUMBER
TRANSFORMER	8108648
D1	5404082
D2	5404082
C1	208222
C2	208222
R1	5761564

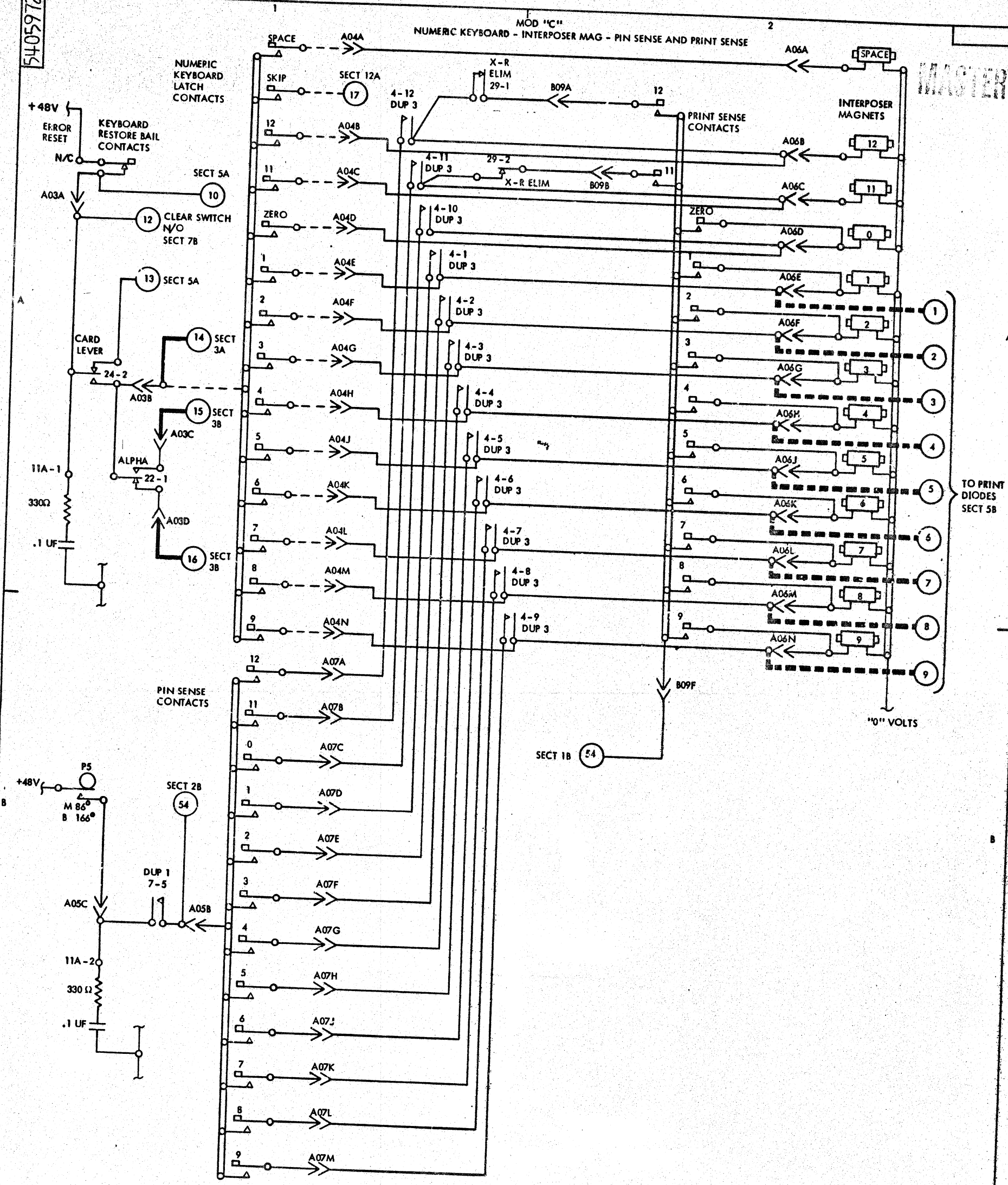
LONG TIME LAG FUSE			
FUSE	AMPS	PART No	VOLTS AC
F1	4	1143492	112.5
F1	4	1143492	123.5
F1	2	615683	195
F1	2	615683	220
F1	2	615683	235

FUSE	AMPS	PART No	VOLTS DC
F3	2	3344	48

NOTE:
 X...UK POWER SUPPLIES USE TB1-11&12 AS O/P TERMINALS NOT 9 & 10 AS SHOWN ON ZERO & 48 VOLT NETS ON LOGICS SHEETS 5405912, 5405953, 5405976.

TBM		DATE	CHANGE No.	DATE	CHANGE No.	NOTE	DEVELOPMENT No.
NAME	SYSTEMS DIAGRAM	25.AUG.67	EC: 940640			NOTE X PRINT TO ENG SPEC No 895291	8108650
	00.29.01.1	28.DEC.67	EC: 940870				
DESIGN	MODEL	31.JAN.68	EC: 940924				
CHECK	DRAW						
APPRO	CHECK						

5405972



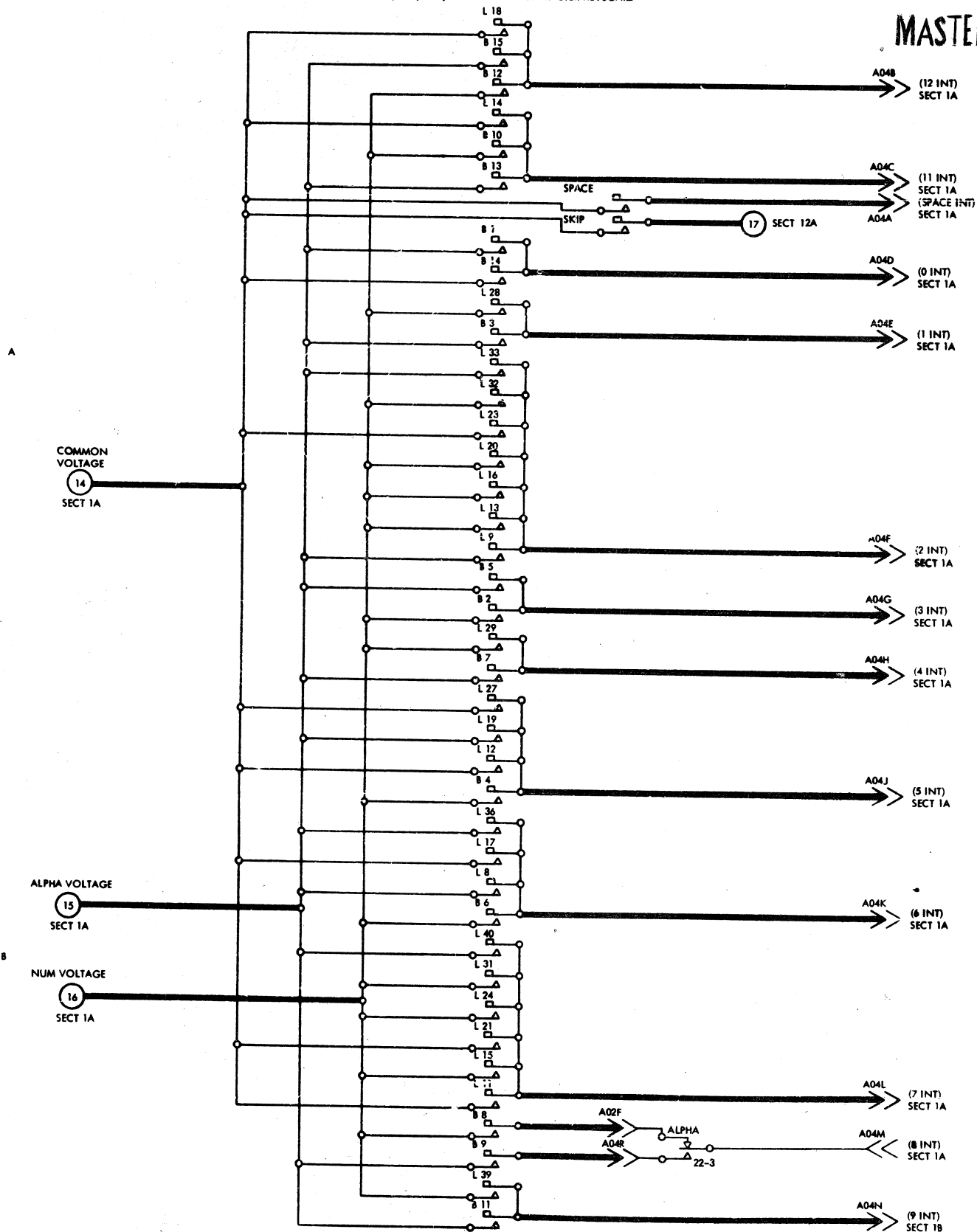
NOTES
 XI POINT TO POINT WIRING FOR +48V AND "0" VOLT NETS SHOWN ON REF PAGE

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME SYSTEMS DIAGRAM - NUM		14 OCT 66	205772-G			NOTE X PRINT TO ENG. SPEC. NO. 895291	5405972
KYBD-INT MAG-PIN SEN&PR SEN		4 NOV 69	920064				
DESIGN AG 19 SEP 68 MODEL							
DETAIL							
CHECK RAS 19 SEP 68 DRAW GT 7 SEP 66							
APPROV FJH 19 SEP 68 CHECK							

11465045

MOD "A", "B", "C", "10" & "11" 64 CHARACTER KEYBOARD

MASTER



NOTES
 X POINT TO POINT WIRING FOR +48V AND "0" VOLT NETS SHOWN ON REF PAGE

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHARGE NO.	DATE	CHARGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEMS DIAGRAM	19 SEP 66	205666 - G			X PRINT TO ENG. DEPT. NO. 895291	11465045
DESIGN	EB 1 SEP 66	18 OCT 66	205811-A				
DETAIL	AG 9 SEP 66						
CHECK	RAS 9 SEP 66	GT 7 SEP 66					
APPRO	RSS 9 SEP 66						

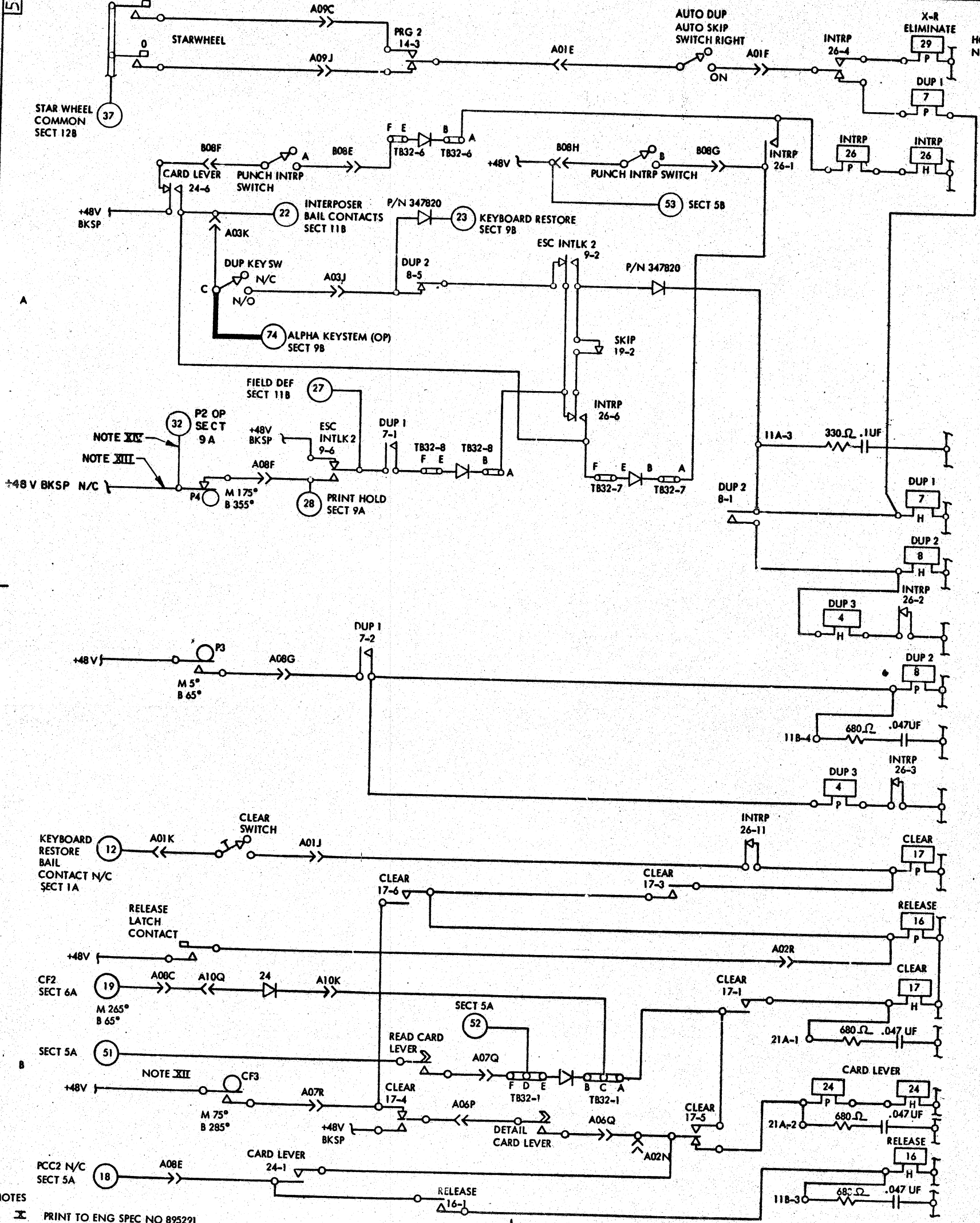
5405977

STANDARDS CODE

MOD "C" DUP-CLEAR-RELEASE-CARD LEVER

MASTER

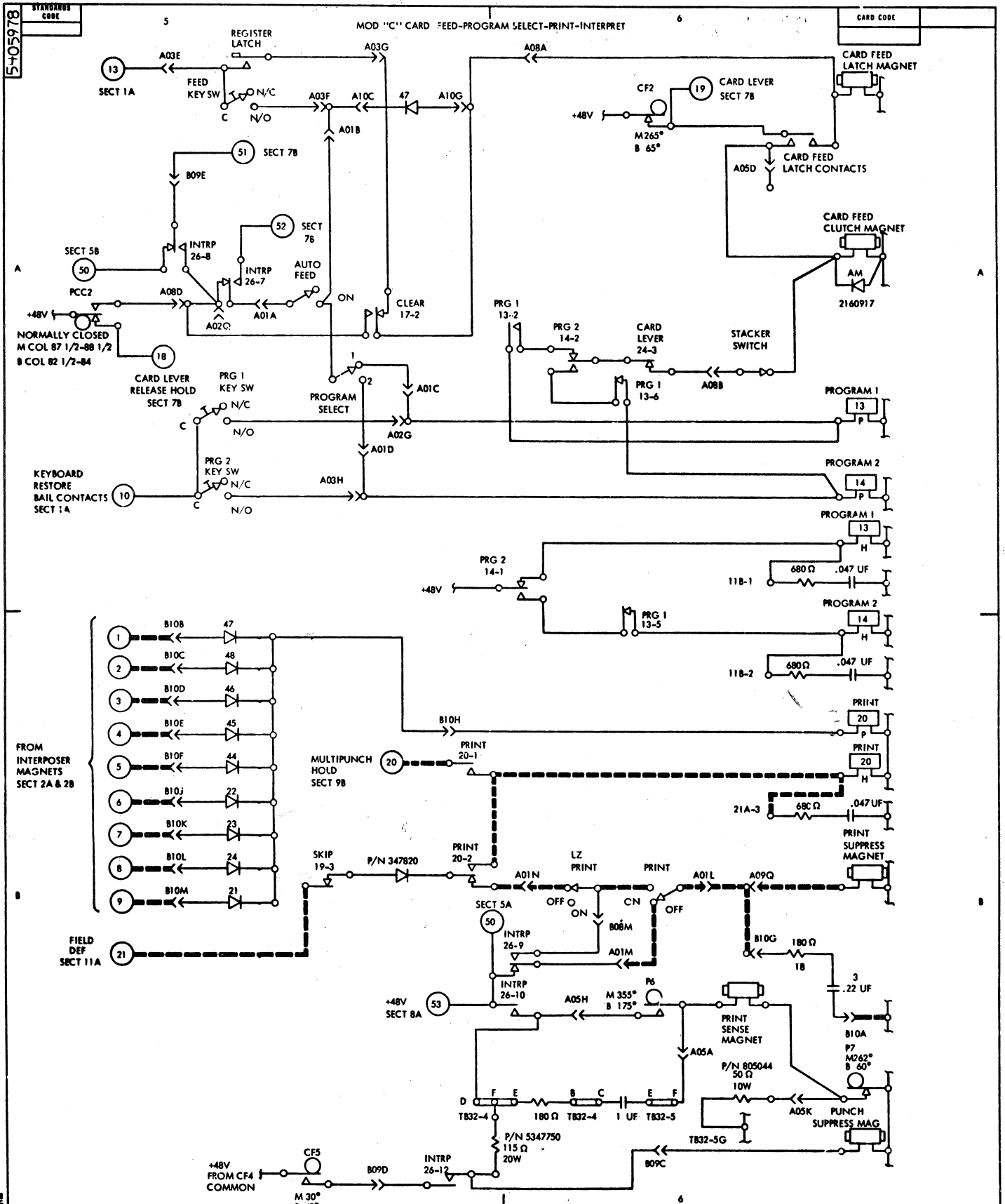
CARD CODE



- NOTES
- X PRINT TO ENG SPEC NO 895291
 - XI POINT TO POINT WIRING FOR +48V AND "0" VOLT NETS SHOWN ON REF PAGE
 - XII CF 3 TIMING FOR VLCD AND/OR HSS M90° ± 2° B300° ± 5°
 - XIII FACTORY REMOVE EC 920064 OCT 69
 - XIV FACTORY INSTALL EC 920064 OCT 69

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME		11OCT68	206435					
SYSTEMS DIAGRAM		4NOV 69	920064					
DESIGN	AG 9SEP66	MODEL						
DETAIL		SCALE						
CHECK	RAS 9SEP66	DRAW	IDI 1AUG68					
APPRO	FJH 9SEP66	CHECK						

5405977



NOTES

- I PRINT TO ENG SPEC NO 895291
- II POINT TO POINT WIRING FOR +48 AND "0" VOLT NETS SHOWN ON REF PAGE

DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
11 OCT 68	206435					

NAME	SYSTEMS DIAGRAM
CD	FEED-PRG SEL-PRINT-INTERPRET
DESIGN	AG 12SEP68
DRAWN	SCALE
CHECK	RAS 9SEP68
APPRO	FJP 19SEP68

5405978

5405978

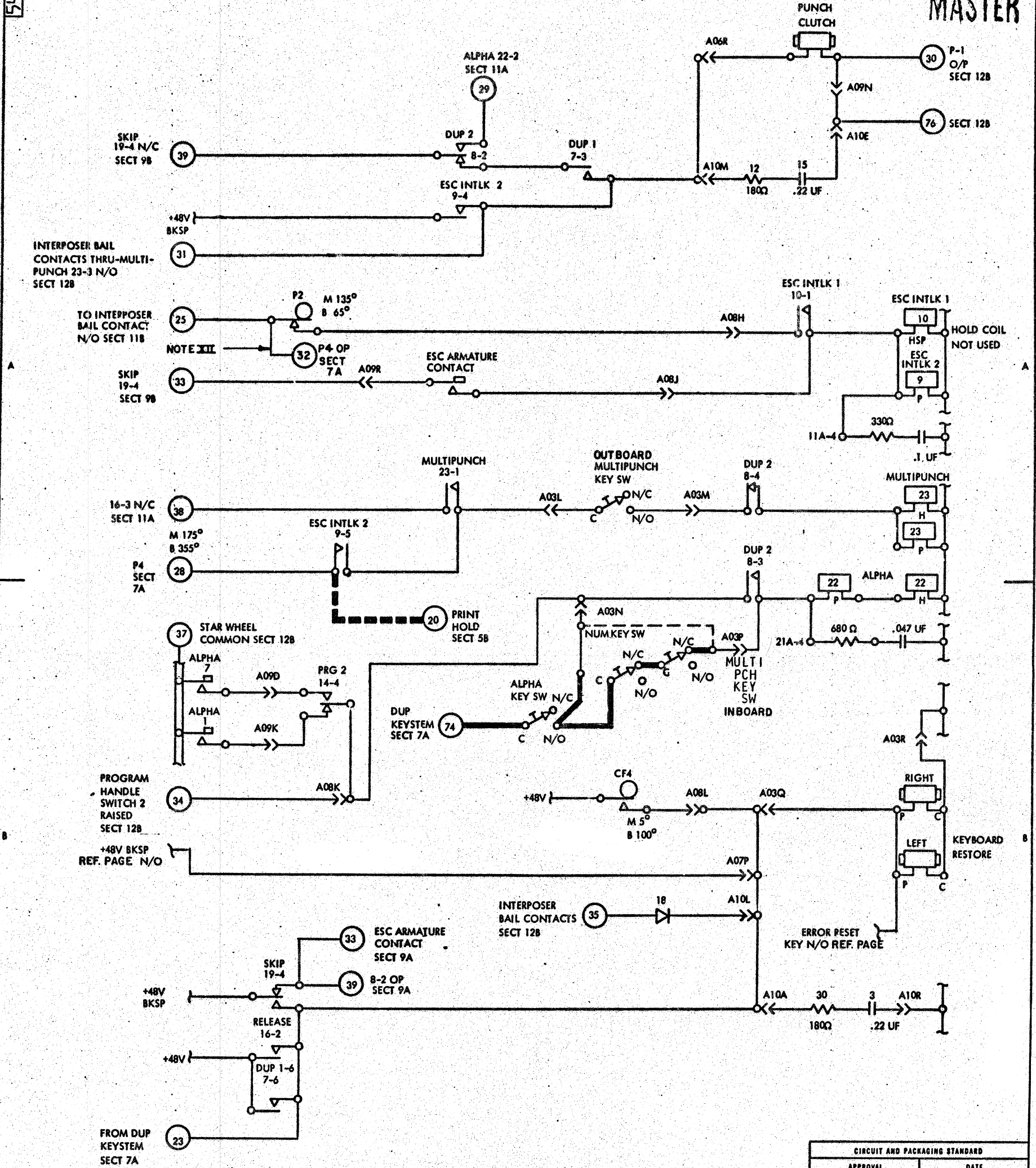
5405918

STANDARD CODE

MOD "A" & "C"
PUNCH CLUTCH-MULTI PCH-ALPHA-KEYBOARD RESTORE

CARD CODE

MASTER



- NOTES
- I PRINT TO ENG SPEC NO 895291
 - II POINT TO POINT WIRING FOR +48V AND "0" VOLT NETS SHOWN ON REF PAGE
 - III FACTORY INSTALL EC 920064 OCT 69

INTERNATIONAL BUSINESS MACHINES CORP.							
NAME	DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
SYSTEMS DIAGRAM	11 OCT 68	206435					
PCH CLUTCH-MP-ALPHA-KYBD RES	4 NOV 69	920064					
DESIGN AG 95EP68							
DETAIL SCALE							
CHECK RAS 95EP66	DRAW IDI 11 AUG 68						
APPRO FJH 95EP66	CHECK						

CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

5405918

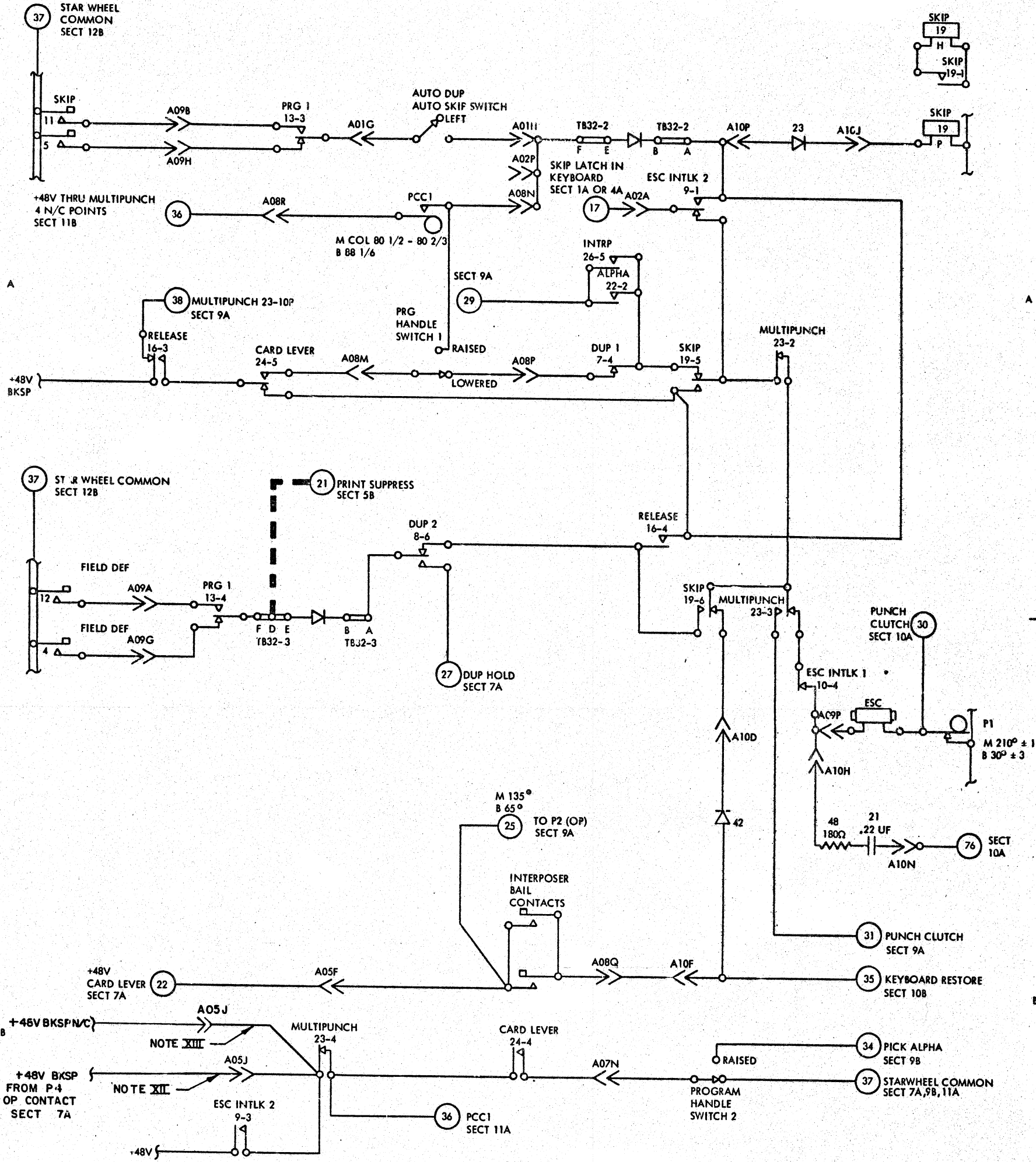
5405918

5405975

11

MOD "C" SKIP - ESCAPE MAG

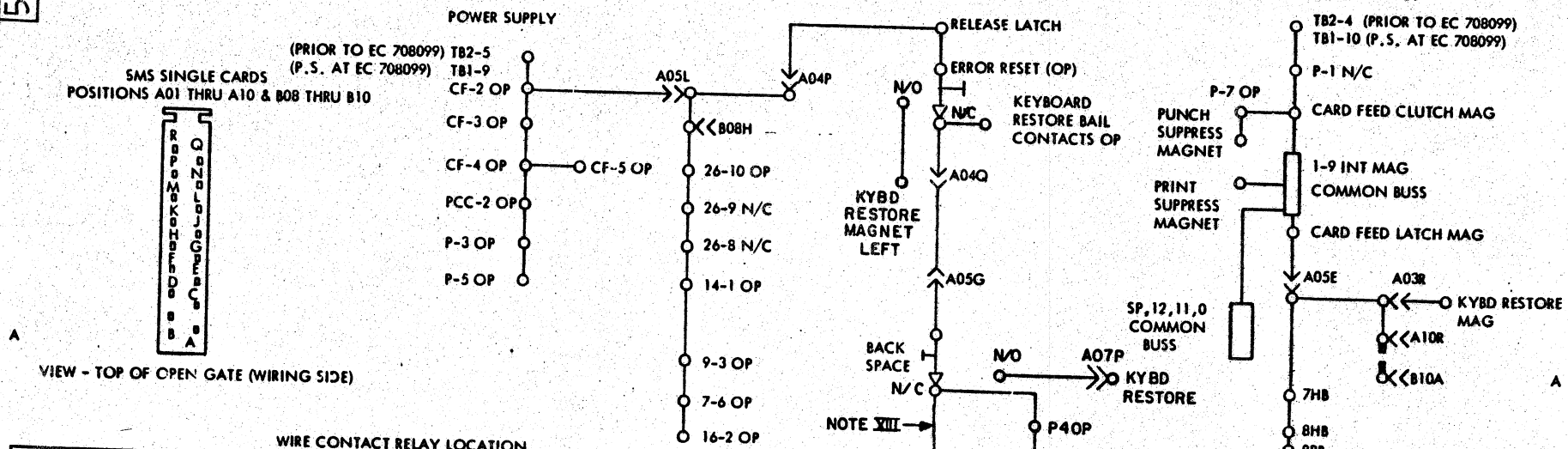
12



- NOTES
- XI POINT TO POINT WIRING FOR +48V AND "0" VOLT NETS SHOWN ON REF PAGE
 - XII FACTORY REMOVED EC 920064 OCT 69
 - XIII FACTORY INSTALLED EC 920064 OCT 69

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEMS DIAGRAM	14 OCT 66	205772-G			X PRINT TO ENL. SPEC. NO. 895291	5405975
DESIGN	AG 19 SEP 66 MODEL	9 FEB 67	205842-A				
DETAIL		4 NOV 69	920064				
CHECK	RAS 19 SEP 66 DRAW GT 7 SEP 66						
APPRO	FJH 19 SEP 66 CHECK						

5405976



VIEW - TOP OF OPEN GATE (WIRING SIDE)

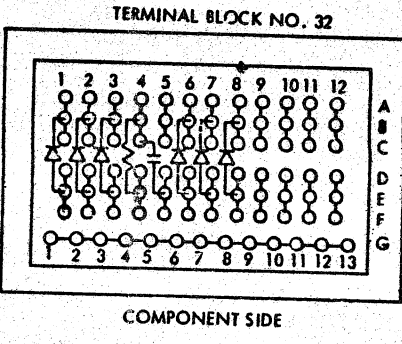
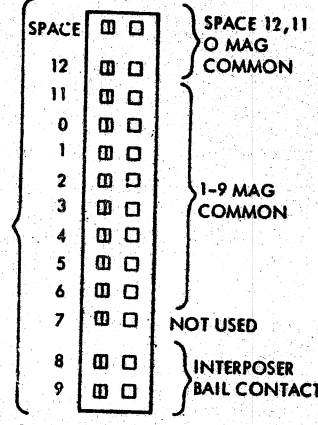
WIRE CONTACT RELAY LOCATION

RELAY	NO.	P	COIL	H	1	2	3	4	5	6	7	8	9	10	11	12	PART NO.	COL TYPE
DUP 3	4	8B	8B	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	255735	PU HRH
DUP 1	7	8A	8A	7A	7B	10A	12A	1B	9B								196198	PU HRH
DUP 2	8	8B	8A	8A	9A	9B	10A	8A	11A								196198	PU HRH
ESC INTLK 2	9	10A		12A	8A	11B	9A	9A	7A								196196	PU
ESC INTLK 1	10	10A		10A	*	*	12B										328273	HSP
PROGRAM 1	13	6A	6A	6A	6A	11A	11B	6B	6A								196198	PU HRH
PROGRAM 2	14	6A	6B	6A	6A	7A	9B										196208	PU HRH
RELEASE	16	8B	8B	8B	9B	11A	12A										196208	PU HRH
CLEAR	17	8B	8B	8B	5A	8B	7B	8B	7E								196198	PU HRH
SKIP	19	12A	12A	12A	8A	5B	9B	12A	12A								196198	PU HRH
PRINT	20	6B	6B	5B	5B												196208	PU HRH
ALPHA	22	10B	10B	1A	12A	4B	XSKIP										196208	PU HRH
MULTIPUNCH	23	10A	10A	9A	12A	12A	11B										104753	HSPU HOLD
CARD LEVER	24	8B	8B	8B	1A	6A	12B	11A	7A								196198	PU HRH
INTIP	26	8A	8A	8A	8B	8A	12A	8A	5A	5A	6B	6B	8B	6B		196206	PU HRH	
X-R ELIM	29	8A		1A	1A													

* DO NOT INSERT WIRES

SMS CARD NAME	CONNECTOR CHART										ARC SUPP	PRINT	
SMS CARD CODE											FLL	FFH	
PIN	A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	B08	B09	B10
A	5A	12A	1A	1A	6B	2A	1B	5A	11A	10B			2A 6B
B	5A		1A	1A	1B	2A	1B	6A	11A				2A 5B
C	5A		1A	1A	1B	2A	1B	7B	7A	5A			6B 5B
D	5A	MC1	1A	1A	6A	2A	1B	5A	8B	12B			5B 5B
E	8A	AUX DUP	5A	1A	14A	2A	1B	7B		10A			7A 5A 5B
F	8A	4B	5A	1A	11B	2A	1B	7A		12B			7A 2B 5B
G	11A	5A	5A	1A	14A	2A	1B	7B	11B	5A			8A 6B
H	12A		5A	1A	6B	2A	1B	10A	11A	12B			8A 5B
J	7B		7A	1A	11B	2A	1B	10A	7A	12A			5B
K	7B		7A	1A	6B	2A	1B	9B	9B	7B			5B
L	6B		10A	1A	13A	2A	1B	9B		10B			5B
M	6B	XSKIP	10A	1A	VLCD	2A	1B	11A		10A			6B 5B
N	6B	8B	10B	1B	HSS	2B	12B	12A	10A	12B			
P	MC1	12A	10B	13A	HSS	7B	10B	12A	12B	12A			
Q		5A	10B	14A	MC1	8B	7B	12B	6B	7B			
R		8B	10B	4B	HSS	10A	7B	11A	9A	10B			

PUNCH UNIT TERM BLOCK FACING WRINKLED LUGS



CARD FEED CAMS

NQ	LOCATION	PART NO.	MAKE CONTACT	BREAK CONTACT
2	6A	344181	265° ± 5	65° ± 2
3	7B	315042	75° ± 2	285° ± 5
4	10B	313807	5° ± 2	100° ± 5
5	5B	311384	30° ± 2	45° ± 5

DISCRETE COMPONENTS

PART NO.	FROM	TO	SECTION
2160917	ACROSS CD FD MAG		6A
347820	19-3 N/C	20-2 OP	5B
347820	7-6 N/O	8-5 N/C	7A
347820	9-2 N/O	11A-3	
5347750	TB32-4F	26-12 1/2 O	6B
805044	TB32-5G	A05K	6B

ARC SUPPRESSION BLOCKS

PIN	11A	11B	21A
1	1A	6A	8B
2	1B	6B	8B
3	8A	8B	6B
4	10A	8B	10B

328602, 328601, 328601

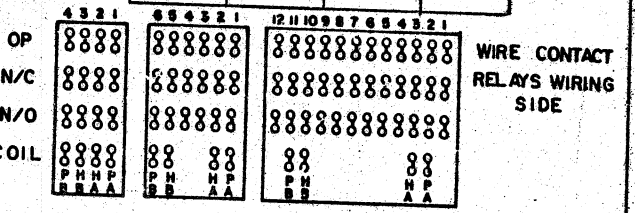
20W & 10W RESISTORS MOUNTED ON RELAY GATE

LEGEND

- PRINT FEATURE WIRING (STANDARD ON MOD "C")
- COMBINATION KEYBOARD WIRING
- NUMERIC KEYBOARD WIRING
- COMMON BUSS

COMP - P/N	DIODE - 347820							
PIN	1	2	3	4	5	6	7	8
A	8B	12A	11A			7A	8A	7A
B	8B	12A	11A	6B		7A	8A	7A
C	8B				6B			
D	8B		11A	5B				
E	8B	12A	11A	5B	6B	7A	8A	7A
F	8B	12A	11B	5B	6B	7A	8A	7A
G		14B			6B			

TB 32 LOCATION



- NOTES
- XI AS REQ'D FIELD CHANGE ON EC 205981
- XII FACTORY REMOVE EC 920064 OCT 69
- XIII FACTORY INSTALL EC 920064 OCT 69

INTERNATIONAL BUSINESS MACHINES CORP.				14			
NAME	DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.	
SYSTEMS DIAGRAM	14 OCT 66	205772-G	15 JAN 69	920013	NOTE X PRINT TO ENG. SPEC. NO. 895291		
CHART LOCATION	9 FEB 67	205842-A	4 NOV 69	920064			
DESIGN AG 9SEP66 MODEL	27 MAR 67	205983					
CHECK RAS 9SEP66 DRAW IDI 22DEC67	17 APR 67	205981					
APPRO FJH 9SEP66 CHECK	22 DEC 67	206134					

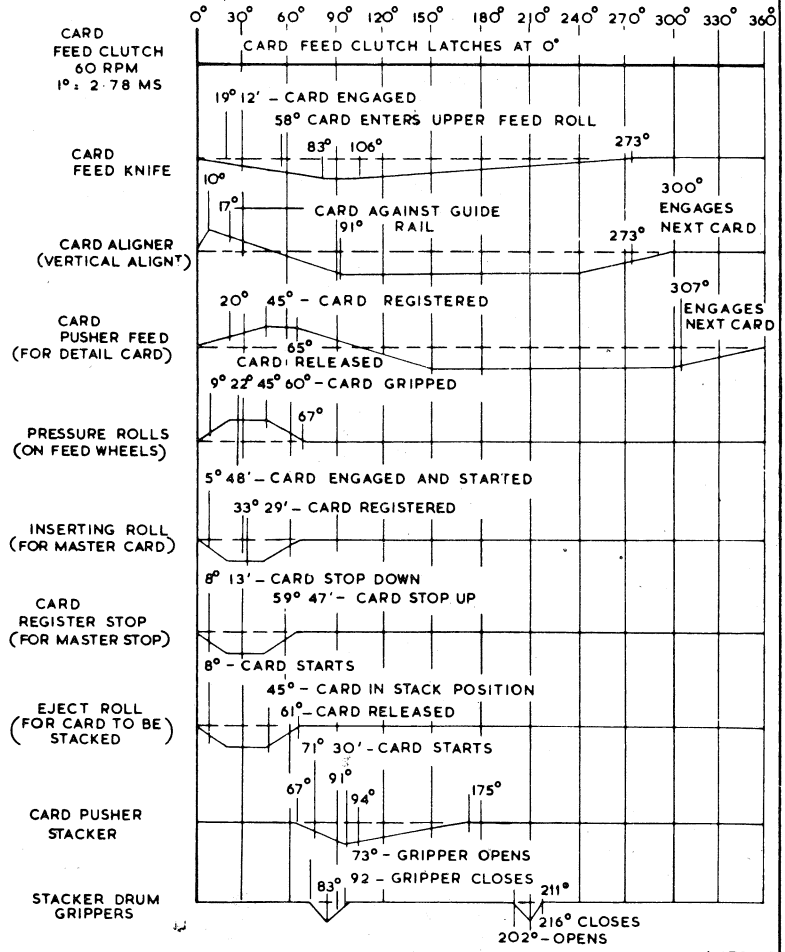
5405976

KEYBOARD & CAM REFERENCE

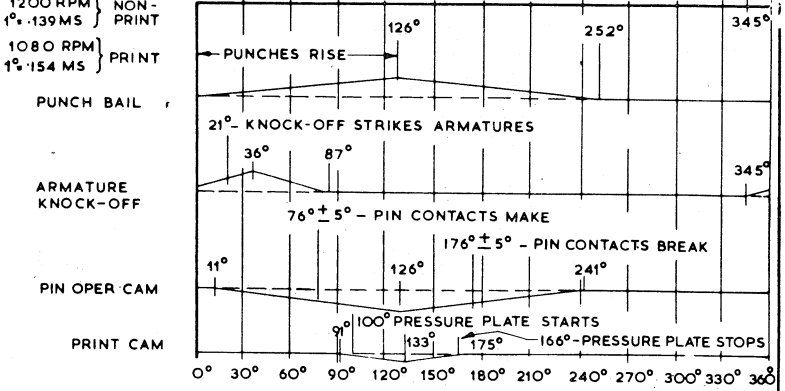
STEM POS	GRAPHIC		CARD CODE		BAILS		LATCHES	
	ALPHA	NUMERIC	ALPHA	NUMERIC	ALPHA	NUMERIC	ALPHA	NUMERIC
1	ERROR	RESET						
2	MULTI	PUNCH						
3		NUMERIC						
4	Q	+	11-8	12-8-6	13,9	12,8,6		
5	A		12-1		15,3			
6	@	#	8-4	8-3	9,7	8,2		
7	I		0-9		1,11			
8	W	-	0-6	0-8-5	14	14,8,4	X	
9	S	>	0-2	0-8-6	14	14,8,6	X	
10	%	?	0-8-4	0-8-3	14,9,7	14,8,2		
11	X	?	0-7	0-8-7	14	14,8	X	X
12	E	)	12-5	11-8-5	15	10,8	X	X
13	D	:	12-4	8-2	15,7	8		X
14	*	\$	11-8-4	11-8-3	7,9	8,2	X	X
15	C	||	12-3	8-7	15,5	8		X
16	R	∅	11-9	12-8-2	13,11	12,8		X
17	F	;	12-6	11-8-6	15	10,8	X	X
18	<	.	12-8-4	12-8-3	9,7	8,2	X	X
19	V	=	0-5	6-8	1	8,6	X	
20	T	0-8-2	0-3	0-8-2	14,5	14,8		X
21	G	-	12-7	11-8-7	15	10,8	X	X
22	MASTER	CARD					X	X
23	B	!	12-2	11-8-2	15	10,8	X	X
24	Y	|	0-8	12-8-7	1,9	12,8		X
25	H	'	12-8	8-5	15,9	8,4		
26	DUP							
27	N	(	11-5	12-8-5	13	12,8	X	X
28	U	1	0-4	1	1,7			X
29	J	4	11-1	4	13,3			X
30	-	-	11	11	13	10		
31	M	7	11-4	7	13,7			X
32	I	2	12-9	2	15,11			X
33	K	5	11-2	5	13	4	X	
34	/	0	0-1	0	14,3	14		
35	,	8	0-8-3	8	1,9,5	8		
36	0	3	11-6	3	13	2	X	
37	L	6	11-3	6	13,5	6		
38	SPACE						X	X
39	.	9	12-8-3	9	15,9,5			X
40	P	&c	11-7	12	13	12	X	
41	SKIP						X	X
42	RELEASE						X	X
43	AUX DUP						X	X
44	FEED							
45	REGISTER						X	X
46	PROG 2							
47	ALPHA							
48	LEFT ZERO						X	X
49	LEFT ZERO							
50	PROG 1							

ODD NUMBER BAILS ON RIGHT SIDE OF KEYBOARD
EVEN NUMBER BAILS ON LEFT SIDE OF KEYBOARD

MECHANICAL TIME CHART
CARD FEED MECHANISM



PUNCH MECHANISM



IBM UNITED KINGDOM LTD.		DATE	CHANGE No.	DATE	CHANGE No.	NOTE:-	DEVELOPMENT No.
NAME SYSTEMS DIAGRAM		DEC. 30. 64	EC: 205199			X... PRINT TO ENG. SPEC. No. 895291	5373561
DD. 29. 10. 0		MAR. 3. 65	TC: 62380C				
DESIGN	MODEL	2. 18. 65	EC: 205260				
DETAIL							
CHECK	DRAW	M.M.G. FEB 26. 65	EC: 205282-A				
APPROV	CHECK	MAY 3. 65	TC: 62380Y				

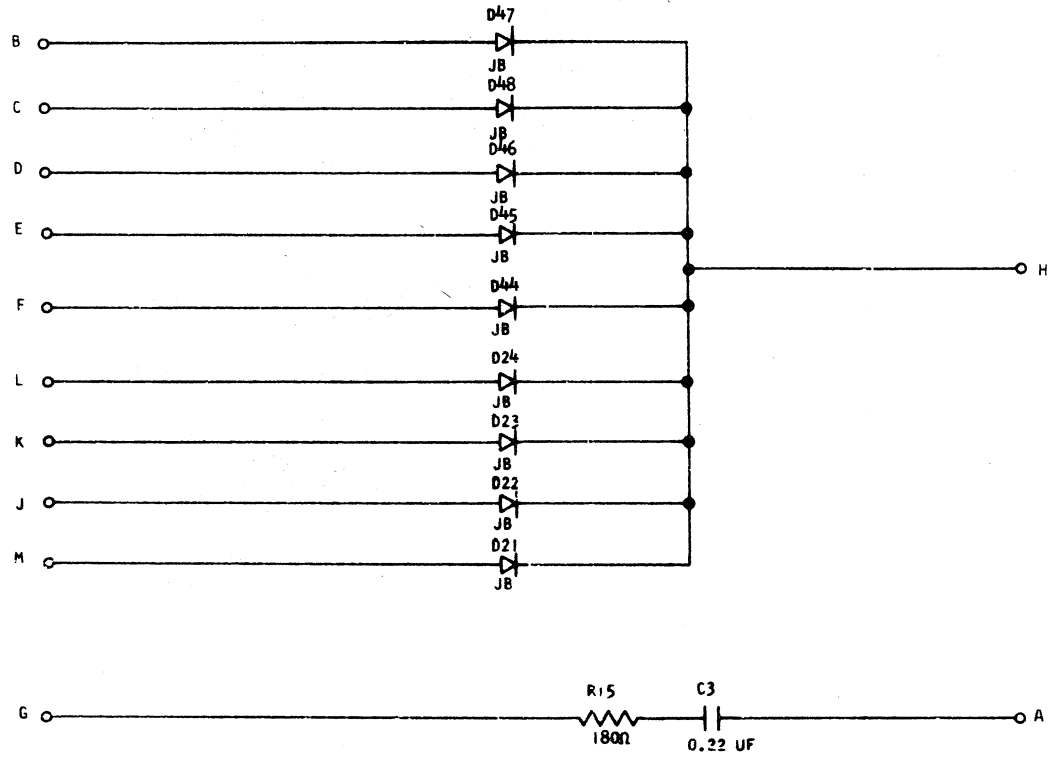
375105

PRINT

HOUNT CARD ON 1.0 INCH CENTERS - NOTE XIII

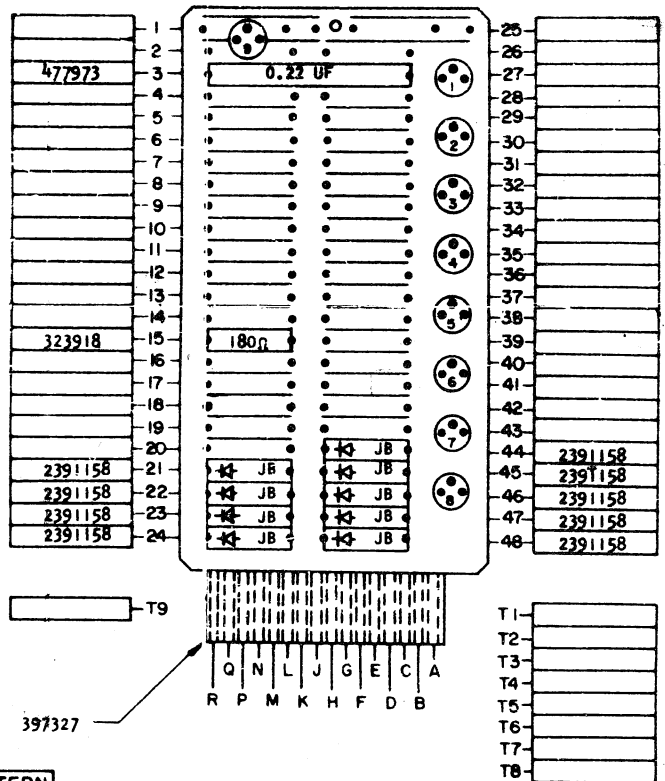
STANDARDS CODE
2-7045

375105
F F H -



NOTES

- X CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION
- XI ASSEMBLE TO ENGINEERING SPECIFICATION 895396 AND 891999
- XII ALL RESISTORS ARE 1/2 WATT AND ± 5% UNLESS OTHERWISE NOTED
- XIII MAXIMUM HEIGHT COMPONENTS MAY PROJECT ABOVE COMPONENT SIDE OF CARD WILL BE .640



B MFG. ENG. *PLW* DATE *5-31-66*

CIRCUIT AND PACKAGING STANDARD

APPROVAL DATE

KNT NPB *5/6/66*

HOLE PATTERN
493457

COMPONENT SIDE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME	CARD ASM TSTR -			<i>1 JUN 66</i>	126540	<i>AKX</i>				PA-3400 A
DESIGN	VE	5APR66	MODEL	SMS						375105
DETAIL	VE	5APR66	SCALE	NONE						
CHECK	VE	5APR66	DRAW	VE	5APR66					
APPRO			CHECK	CC	4-11-66					

375233

ARC SUPPRESSION

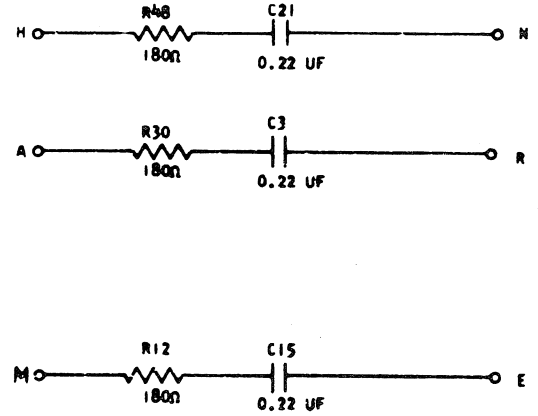
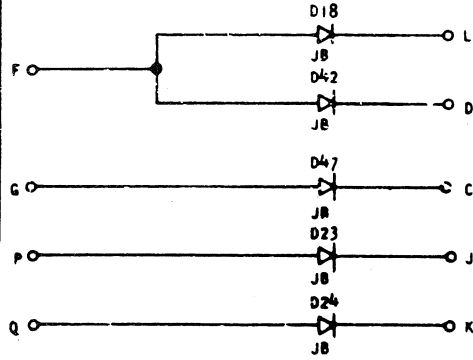
MOUNT CARD ON 1.0 INCH CENTERS - NOTE XIII

375233

F L L -

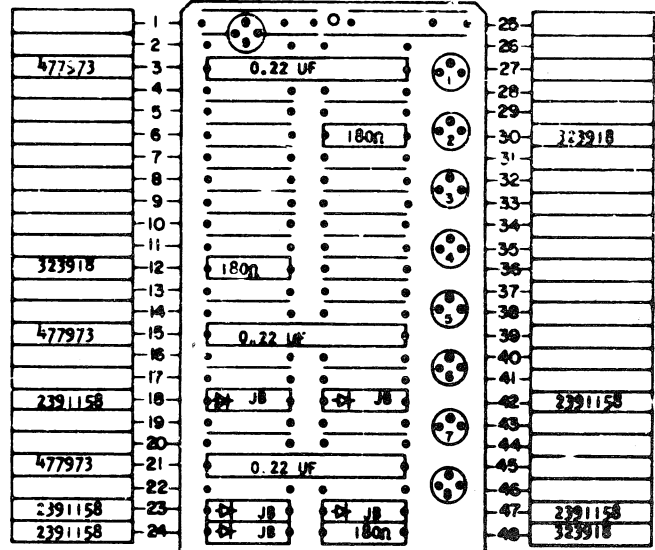
STANDARDS CODE

2-7045



NOTES

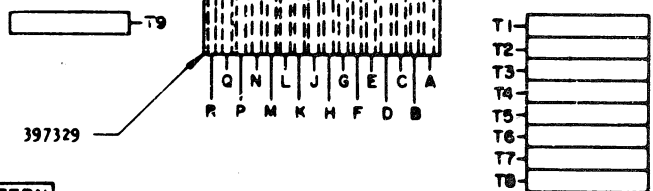
- X CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION
- XI ASSEMBLE TO ENGINEERING SPECIFICATION 895396 AND 891999
- XII ALL RESISTORS ARE 1/2 WATT AND ± 5% UNLESS OTHERWISE NOTED
- XIII MAXIMUM HEIGHT COMPONENTS MAY PROJECT ABOVE COMPONENT SIDE OF CARD WILL BE .640



B

MFE ENG	PW	5-16-67
CIRCUIT AND PACKAGING STANDARD		
APPROVAL	DATE	
✓ K	4-19-67	

HOLE PATTERN
493457



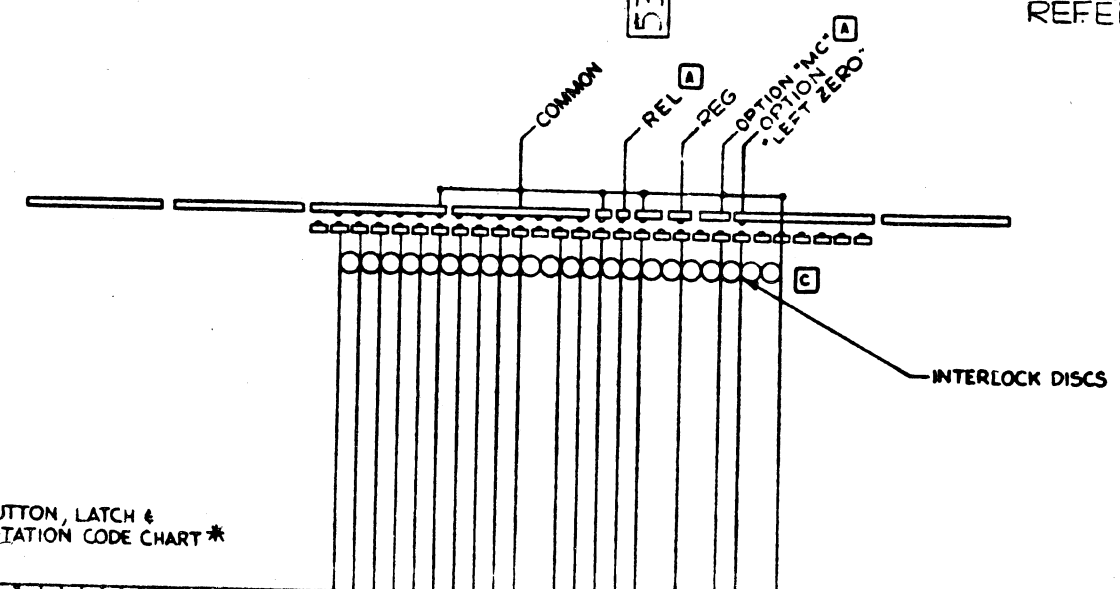
COMPONENT SIDE

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME	CARD ASM YSTR	17MAY67	131144	<i>[Signature]</i>				
ARC SUPPRESSION								
DESIGN	MODEL							
DETAIL	SCALE							
CHECK	DRAW SJ 10MAY67							
APPRO	CHECK SJ 10MAY67							

375233

SYM		DATE	CHANGE NO.	STANDARDS CODE	TECH SERVICES APPRO		SYM	DATE	CHANGE NO.	TECH APPRO	SYM	DATE	CHANGE NO.	TECH APPRO	DEVELOPMENT NO.	Q/M
DI		210CT60	EC 205516 EC 240261	RELEASED FOR AMV	5367184		ELEC	5-21-64	TC 62050-A		A4	JAN 20 64	TC 62380-B		5367184	
							MET		EC 205272		B2	APR 21 65	TC 62380-B			
							PLASTIC		EC 24172-H							

REFERENCE DRAWING



KEYBUTTON, LATCH & PERMUTATION CODE CHART *

KEYBUTTON CHART	NUMERIC CHARACTER		STEM POS
	STD		
KEYSTEM CONT N/O			1
KEYSTEM CONT N/C			2
SPACER 3B3274 QUAN			3
			4
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* SEE REF DWG P/N

5367184

IBM MATERIAL	NO	TOLERANCE UNLESS OTHERWISE NOTED	2 PLACE DEC ±	MUST CONFORM TO ENG SPEC 890350	INTERNATIONAL BUSINESS MACHINES CORP
CASE DEPTH			3 PLACE DEC ±	ALIGNMENT WITHIN	NAME CODE CHART -
HARDNESS			ANGLE ±	COND TO DU WITHIN	NUMERIC KEYBOARD
SURFACE TREATMENT			CURVATURE	DATE WITHIN	DESIGN FSV 420 64
			INSIDE	PARALLEL TO DU WITHIN	NOTE I
				STRAIGHT WITHIN	NOTE II
				SQUARE TO DU WITHIN	NOTE III
					NOTE IV
					NOTE V
					NOTE VI
					DETAIL
					CHECK
					SCALE
					DRAW
					APPRO
					CHECK

5367184