

5406554

MASTER

MOD "B"
29 WIRING DIAGRAM INDEX

NAME	SECTION	PART NUMBER
POWER SUPPLY 60 CYCLE		5761451
POWER SUPPLY 50 CYCLE		5761461
NUM KYBD - INTERPOSER MAG - PIN SENSE	1 AND 2	5405943
64 CHARACTER KYBD	3 AND 4	5405944
CARD FEED - PROG SELECT - PRINT	5 AND 6	5405916
DUP - CLEAR - RELEASE - CARD LEVER	7 AND 8	5405958
PCH CLUTCH - MP - ALPHA - KYBD RESTORE	9 AND 10	5405959
SKIP - ESC MAG	11 AND 12	5405948
FIELD SIZE - ENCODE	13 AND 14	5405949
1A REG DECODE - READOUT	15 AND 16	5405950
PIT REG AND LZ REGISTER - SMS CARD	17, 18, 19, 20, 21, 22	5405954
COMPONENT LOCATION	23 AND 24	5405953
KEYBOARD AND CAM REFERENCE		5373561
PRINT - SMS CARD		375105
ARC SUPP - SMS CARD		375106
ENCODE - SMS CARD		375107
COMBINATION KYBD CODE CHART		5367164
NUMERIC KYBD CODE CHART		5367184

NOTES

XI PART NUMBERS 5406551 THRU 5406600 ARE RESERVED FOR MODEL "B" INDEX PAGES (ENG NOTE)

XII LAST BALLOON USED (128) NOT USED 11, 24, 26, 41-49 & 80 (ENG NOTE)

FOR ENGINEERING USE

PREVIOUS ASSIGNED PAGE(S) PART NUMBERS(S)
INDEX PAGE(S) 5406553
LOGIC PAGE(S) 5405911, 5405946, 5405947
REPLACED BY P/N 5405916, 5405958, 5405959

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE X PRINT TO ENG. SPEC. NO. 895291	DEVELOPMENT NO.
NAME SYSTEMS DIAGRAM				11 OCT 68	206435				
W D INDEX				4 NOV 69	920064				
DESIGN	EB	15 SEP 66	MODEL						
DETAIL	AG	9 SEP 66							
CHECK	RAS	9 SEP 66	DRAW	IDI	12 JUL 68				
APPRO	RSS	9 SEP 66	CHECK						

5406554

FORM 530-001-1

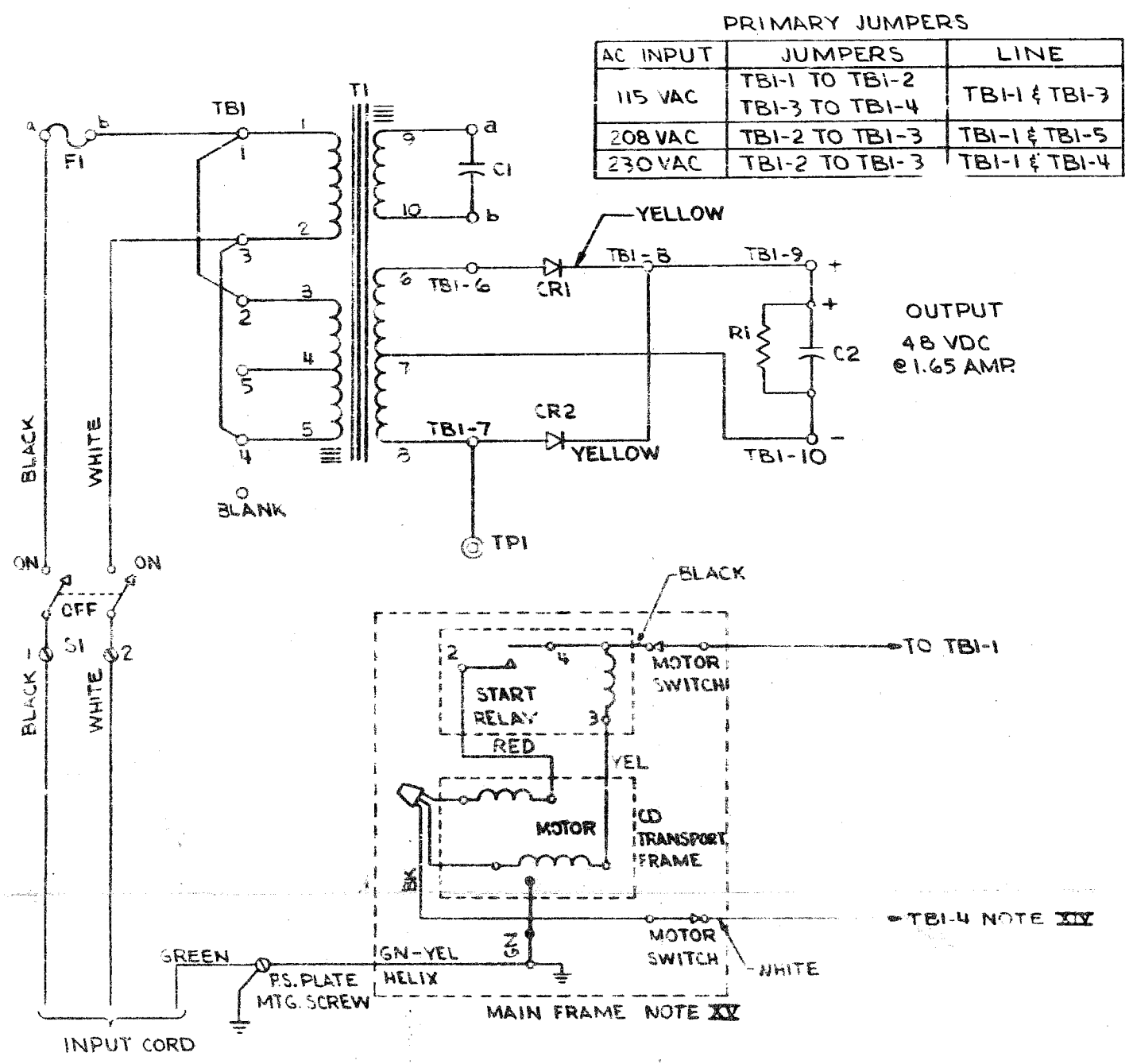
G. B. CO., NO. 44-811 4872

5761451

POWER SUPPLY 60 HZ

REFERENCE DRAWING

YF337



PRIMARY JUMPERS

AC INPUT	JUMPERS	LINE
115 VAC	TBI-1 TO TBI-2 TBI-3 TO TBI-4	TBI-1 & TBI-3
208 VAC	TBI-2 TO TBI-3	TBI-1 & TBI-5
230 VAC	TBI-2 TO TBI-3	TBI-1 & TBI-4

OUTPUT
48 VDC
@ 1.65 AMP

SYMBOL	DESCRIPTION	PART NO
T1	FERRO REGULATOR	5761559
CR1 & CR2	2 A. FLANGLSS RECTIFIER	5323537
C1	CAPACITOR 6 MFD 330 VAC	2159748
C2	CAPACITOR 5000 MFD 55 VDC	208222
R1	RESISTOR 500 ~ 10 W	338571
S1	SWITCH	5214428
F1	FUSE 4A	1143492

NOTE XII

NOTES

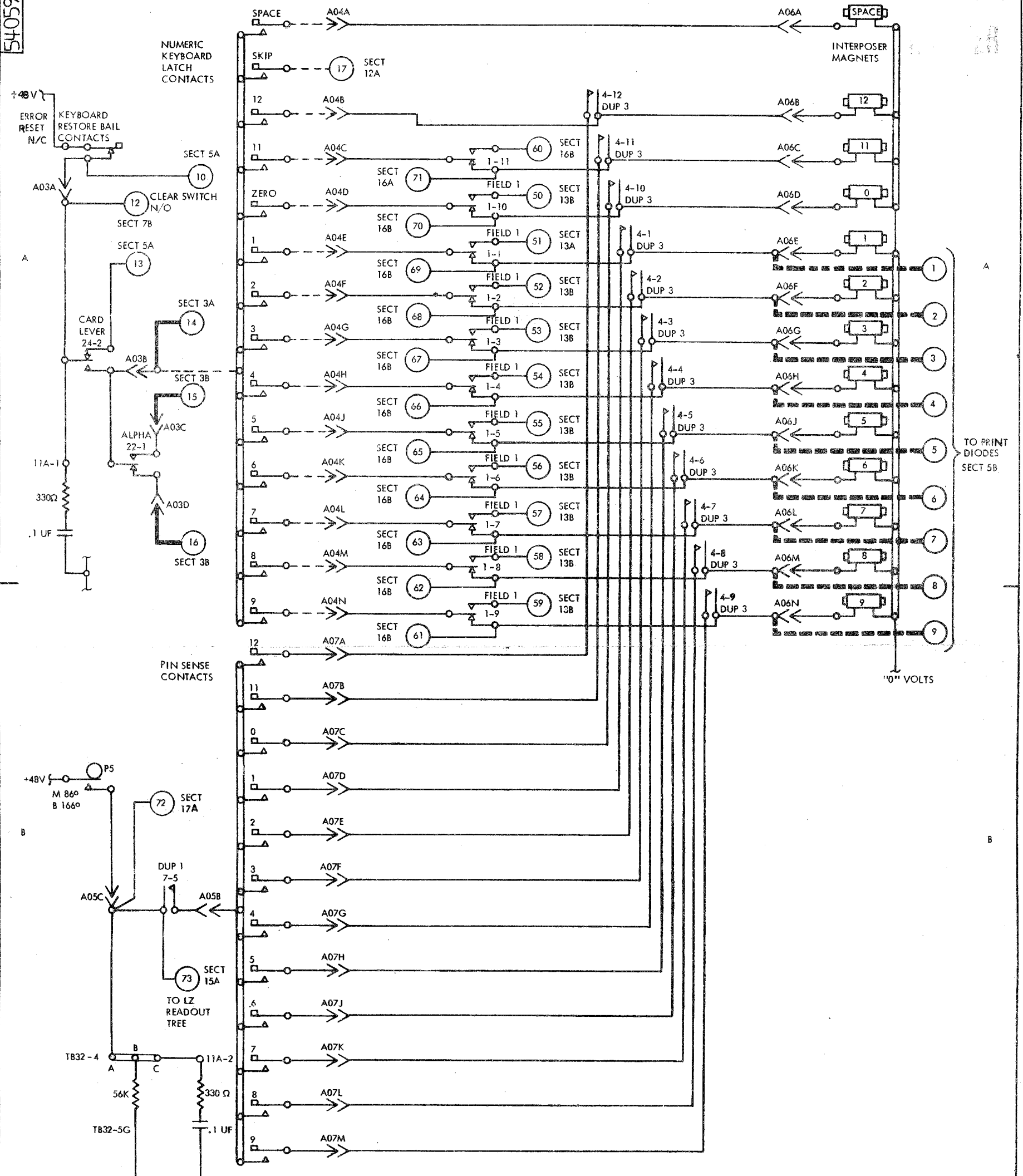
- XI FACTORY WIRED FOR 115V AC
- XII FOR 208/230V INPUT, USE 615683 (2A) FUSE
- XIII WIRING DIAGRAM 5253883 APPLIES TO UNITS PRIOR TO EC708099 LEVEL
- XIV FOR 208V INPUT, CONNECT THIS LEAD TO TBI-5
- XV MAIN FRAME INF FOR THE 029 GROUP

INTERNATIONAL BUSINESS MACHINES CORP.	DATE	CHARGE NO.	DATE	CHARGE NO.	NOTE	DEVELOPMENT NO.
NAME WIRING DIAGRAM -	20 JUL 66	708099			NOTE X PRINT TO ENCL. SPEC. NO. 895291	5761451
48V DC @ 1.65A P/S 60HZ	10 APR 67	709472				
DESIGNER ME 6-6-66			3 NOV 67	710705		
CHECKER ME 6-6-66			6 MAR 68	710998-A		
APPROVER L. L. F. 13 66			10 OCT 68	711702-A		YF337

5405943

MOD "B" NUMERIC KEYBOARD - INTERPOSER MAGNETS AND PIN SENSE

2



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

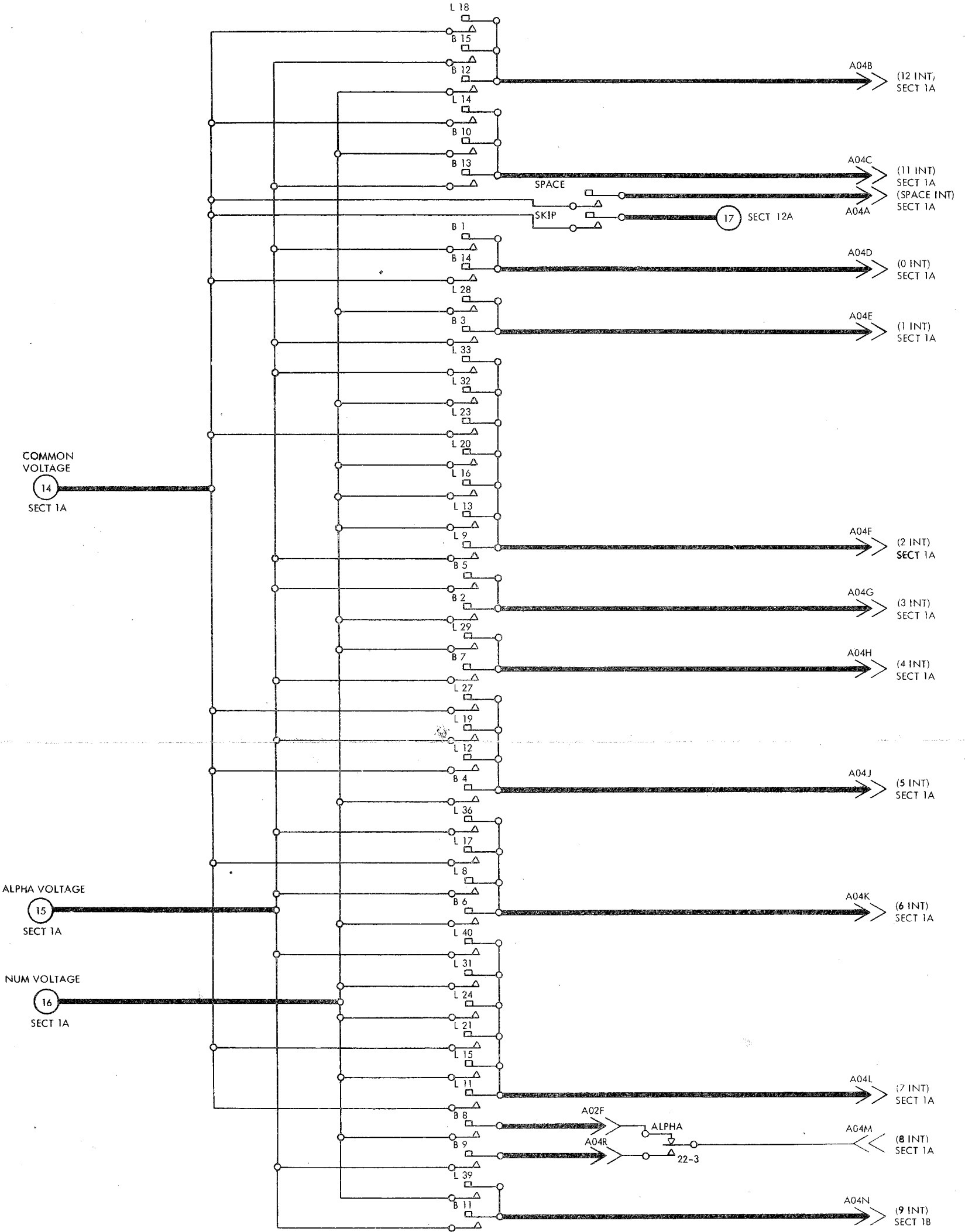
INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEMS DIAGRAM	19 SEP 66	205666 - G			X PRINT TO ENG. SPEC. NO. 895291	5405943
NUM KYBD - INT MAG - PIN SENSE		18 OCT 66	205811 - A				
DESIGNER	EB 1 SEP 66						
DETAIL	AG 7 SEP 66	4 NOV 69	92 0064				
CHECK	RAS 7 SEP 66						
APPRO	RSS 7 SEP 66						

5405944

3

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

4



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	SYS1	MS	DIAGRAM	19 SEP 66	205666 - G			NOTE X PRINT TO ENG. SPEC. NO. 895291	
DESIGN	EB	1 SEP 66	MODEL	18 OCT 66	205811-A				
DETAIL	AG	9 SEP 66							
CHECK	RAS	9 SEP 66	DRAW	GT	7 SEP 66				
APPRO	RSS	7 SEP 66	CHECK						

5405944

5405916

STANDARDS CODE

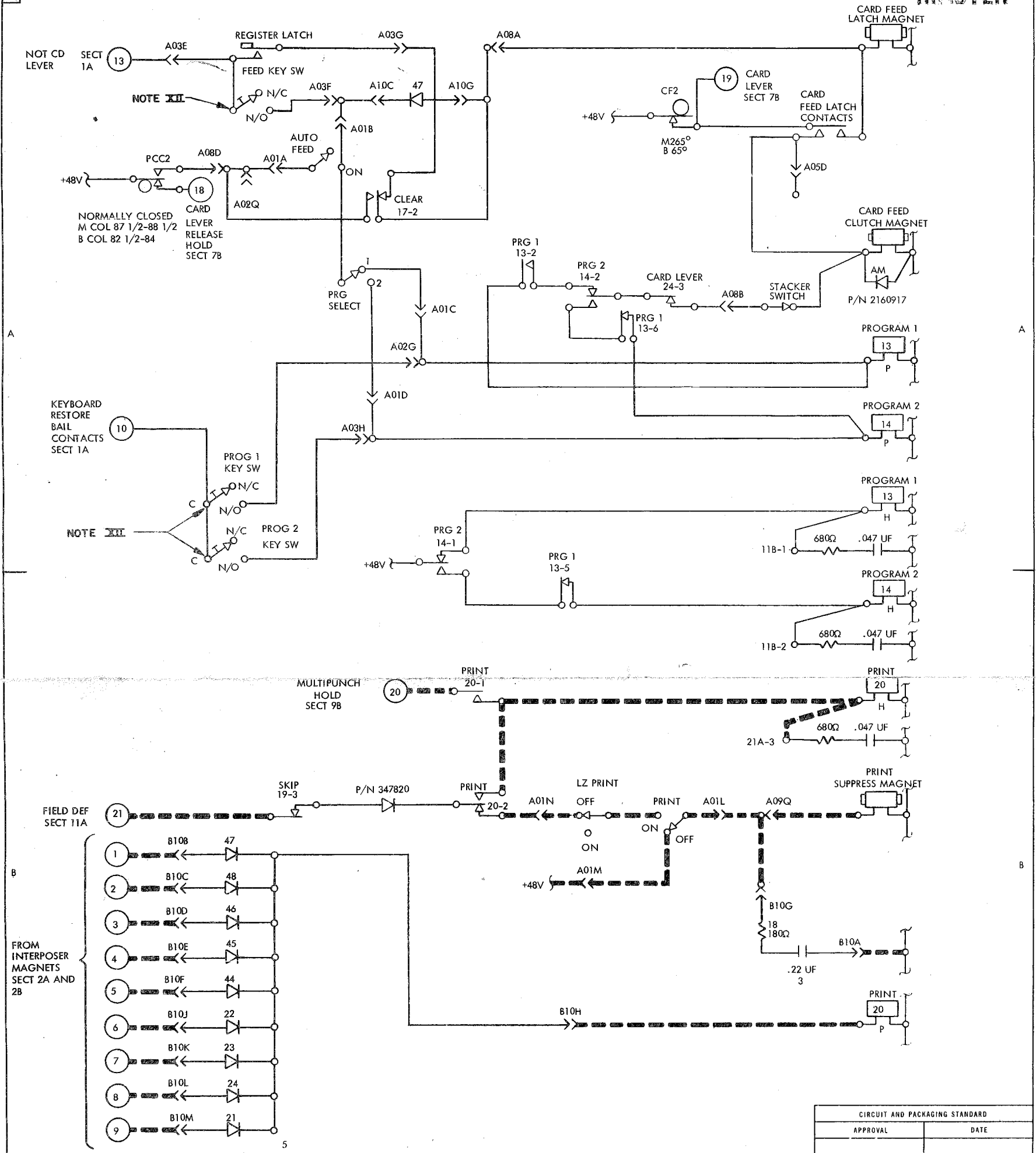
5

6

CARD CODE

MOD "A" AND "B" CARD FEED-PROG SELECT-PRINT

MASTER



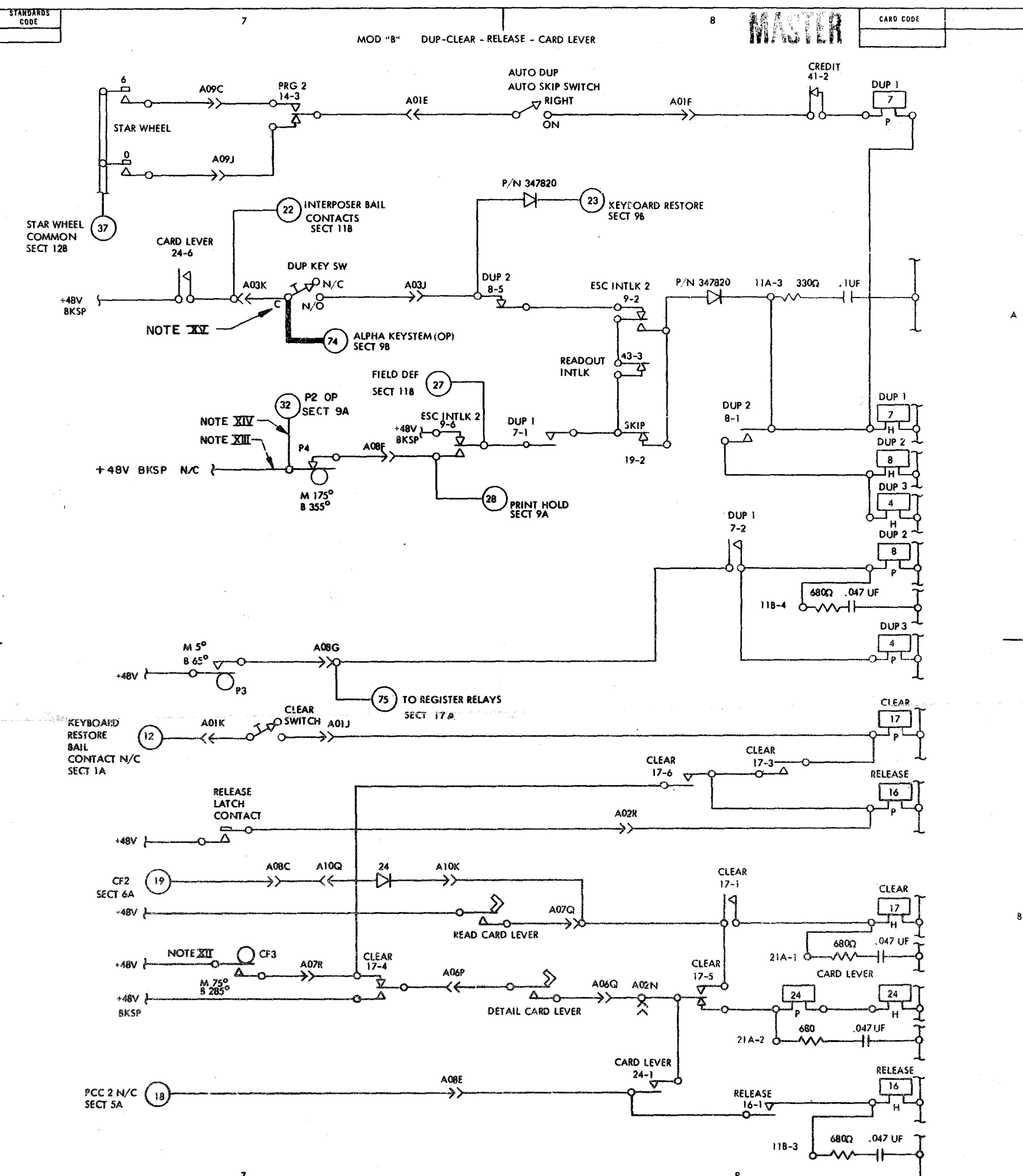
NOTES

- PRINT TO ENG SPEC NO 895291
- POINT TO POINT WIRING FOR +48V AND "0" VOLT NETS SHOWN ON REF PAGE
- A STRAP CONTACT KEYBOARD MAY BE INSTALLED ON THIS M/C

INTERNATIONAL BUSINESS MACHINES CORP.				CIRCUIT AND PACKAGING STANDARD			
NAME	DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
STEMS DIAGRAM	11 OCT 68	206435					
CD FEED-PROG SEL-PRINT	23 MAR 71	920307					
DESIGN EB	1 SEP 66	MODEL					
DETAIL AG	9 SEP 66	SCALE					
CHECK RAS	9 SEP 66	DRAW	ID1	1 AUG 68			
APPRO RSS	9 SEP 66	CHECK					

5405916

5405958



- NOTES
- X PRINT TO ENG SPEC NO 893291
 - 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° B 300° ± 5°
 - XIII FACTORY REMOVE EC 920064 OCT 69
 - XIV FACTORY INSTALL EC 920064 OCT 69
 - XV A STRAPCONTACT KEYBOARD MAY BE INSTALLED ON THIS M/C

CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME SYSTEMS DIAGRAM				11 OCT 68	206435					
DUP-CLEAR-REL-CD LEVER				4 NOV 69	920064					
DESIGN	EB	11 SEP 68	MODEL							
DETAIL	AG	9 SEP 68	SCALE	23 MAR 71	920307					
CHECK	RAS	7 SEP 68	DRAW	IDI	11 AUG 68					
APPROV	RRS	7 SEP 68	CHECK							

5405958

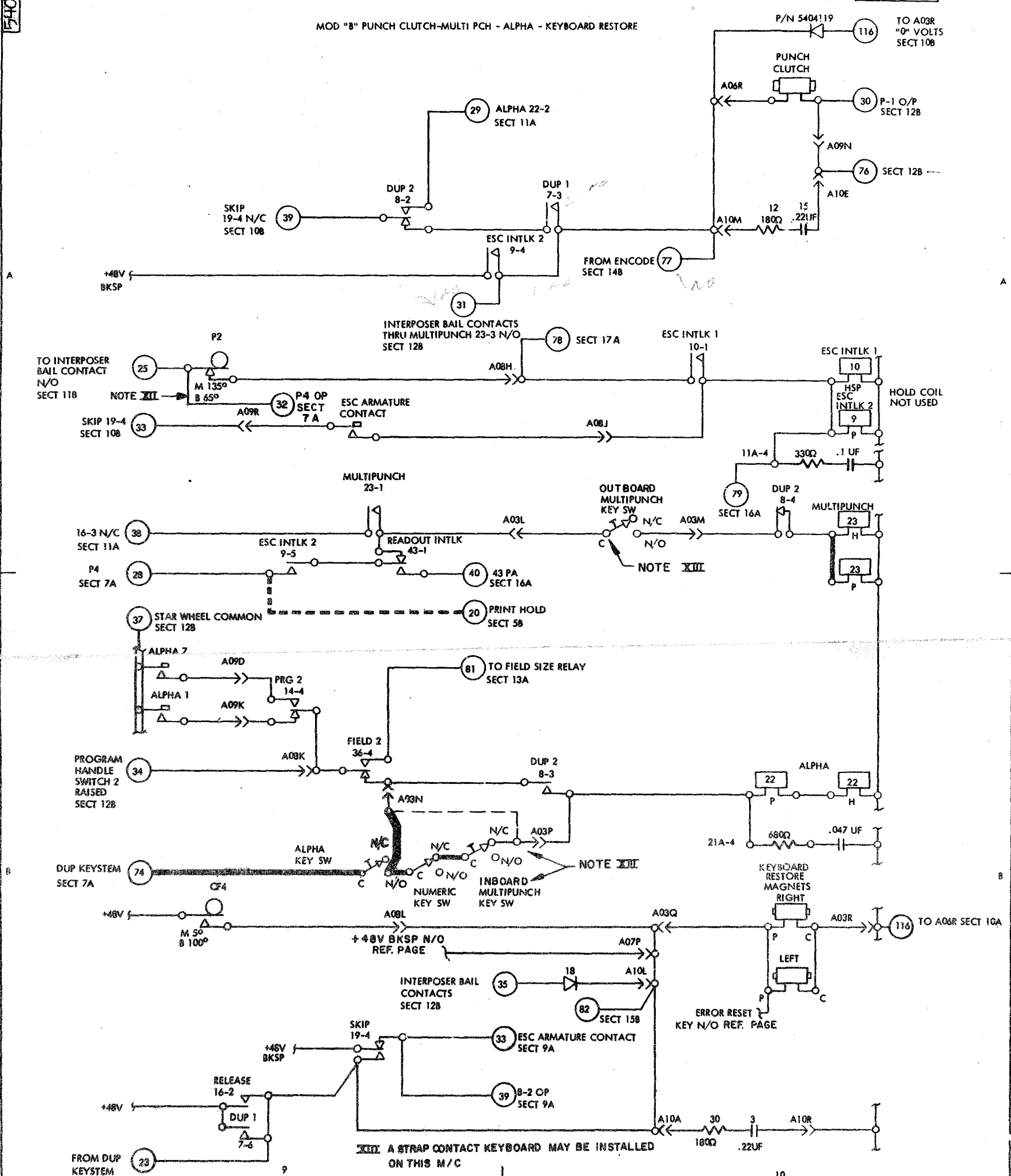
STANDARDS CODE
540599

9

10

CARD CODE

MOD "B" PUNCH CLUTCH-MULTI PCH - ALPHA - KEYBOARD RESTORE



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

REVISION	DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
1	11 OCT 68	206435					
2	15 JAN 69	920013					
3	4 NOV 69	920064					
4	23 MAR 71	920307					

C

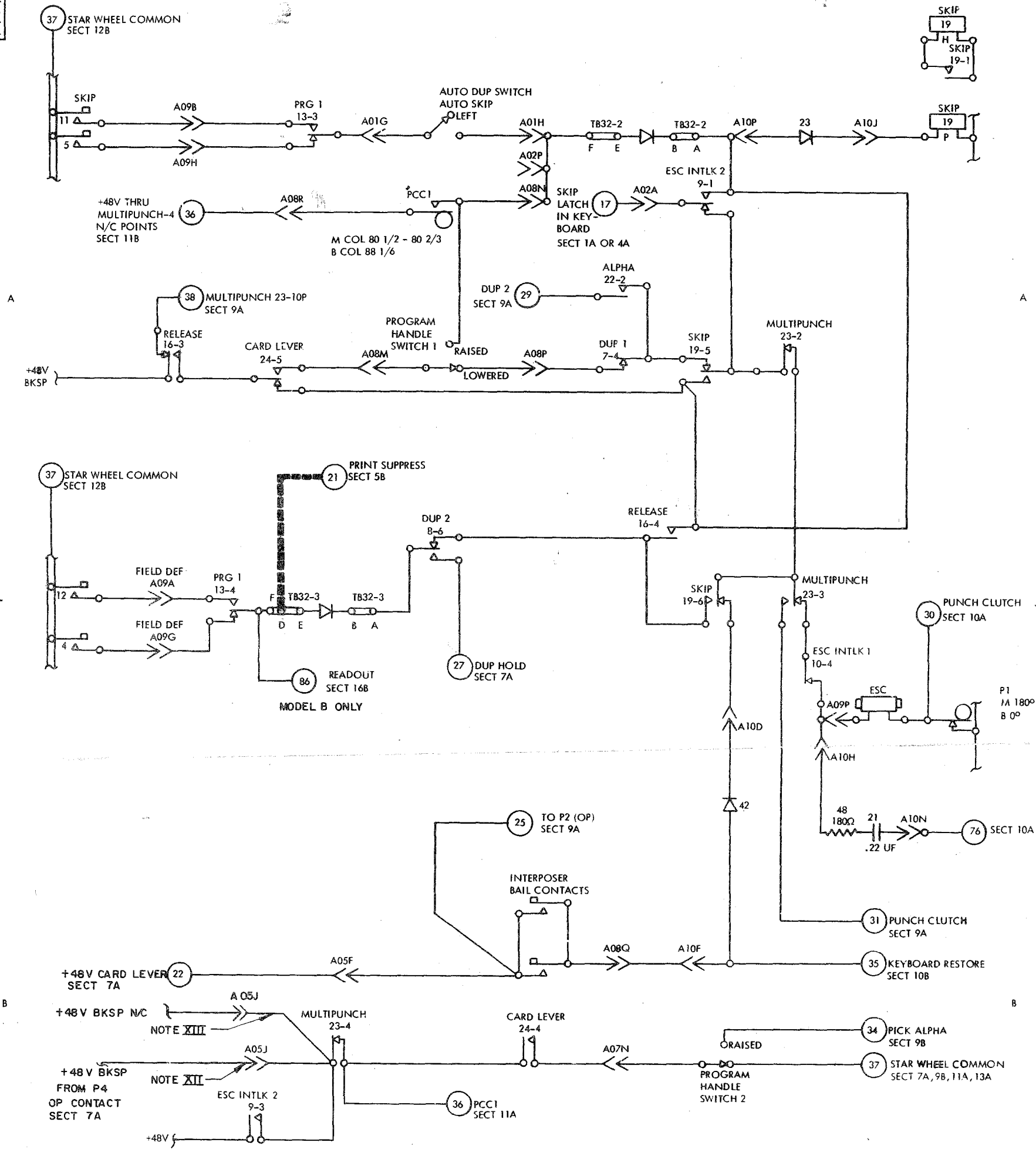
540599

8765073

11

MOD "A" & "B" SKIP-ESCAPE MAGNET

12



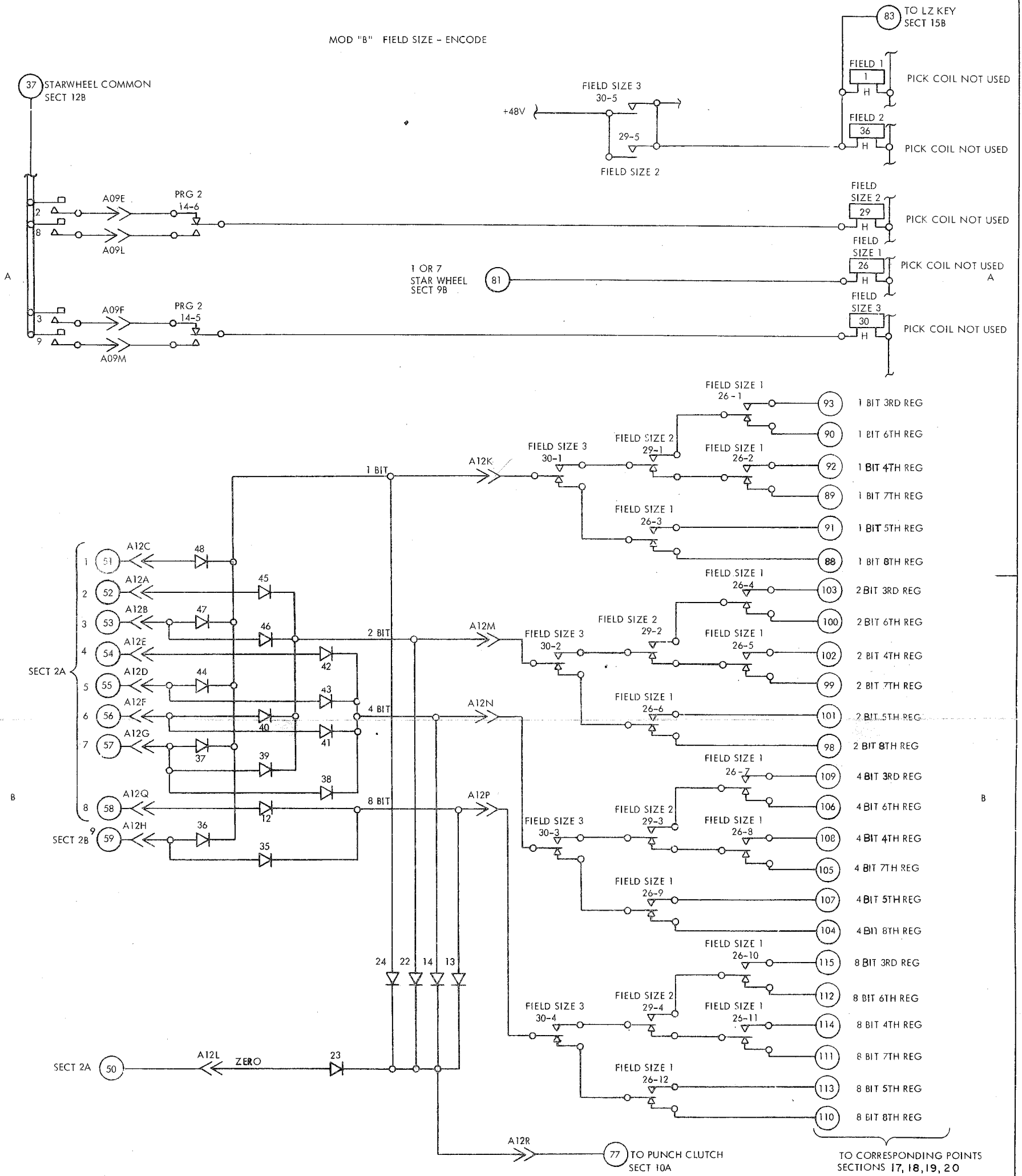
- NOTES
- XI POINT TO POINT WIRING FOR +48V 11 AND "0" VOLT NETS SHOWN ON REF PAGE
 - XII FACTORY REMOVED EC 920064 OCT 69
 - XIII FACTORY INSTALLED EC 920064 OCT 69

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHARGE NO.	DATE	CHARGE NO.	NOTE	DEVELOPMENT NO.
NAME		19 SEP 66	205666 - G			X PRINT TO ENCL. SPEC. NO. 895291	
SKIP-ESCAPE-MAGNET		18 OCT 66	205811-A				
DESIGN	EB 11 SEP 66			11 NOV 66	205813-A		
DETAIL	AG 19 SEP 66			4 NOV 69	920064		
CHECK	RAS 19 SEP 66	DRAW	GT 7 SEP 66				
APPRO	RSS 19 SEP 66	CHECK					

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51405949

MOD "B" FIELD SIZE - ENCODE



NOTES

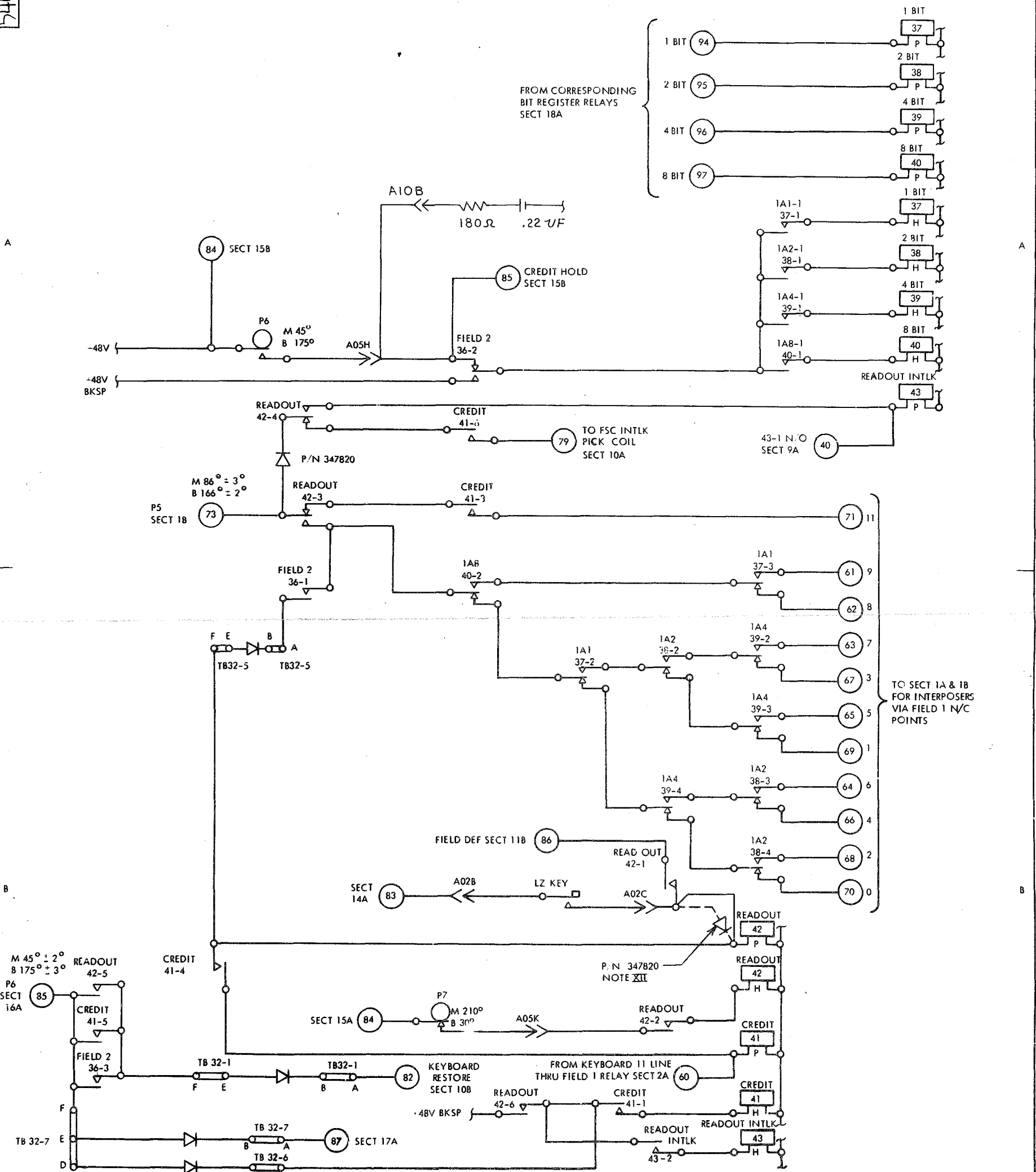
POINT TO POINT WIRING FOR +48V AND "0" VOLT NETS SHOWN ON REF PAGE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME				19 SEP 66	205466 - G			X PRINT TO ENG. SPEC. NO. 895291	51405949
FIELD SIZE - ENCODE				18 OCT 66	205811-A				
DESIGN				11 NOV 66	205813-A				
DETAIL				4 NOV 69	920064				
CHECK				9 APR 70	920064 A				
APPRO									

5405950

MOD "B" 1A REGISTER DECODE-READOUT

1ST REGISTER



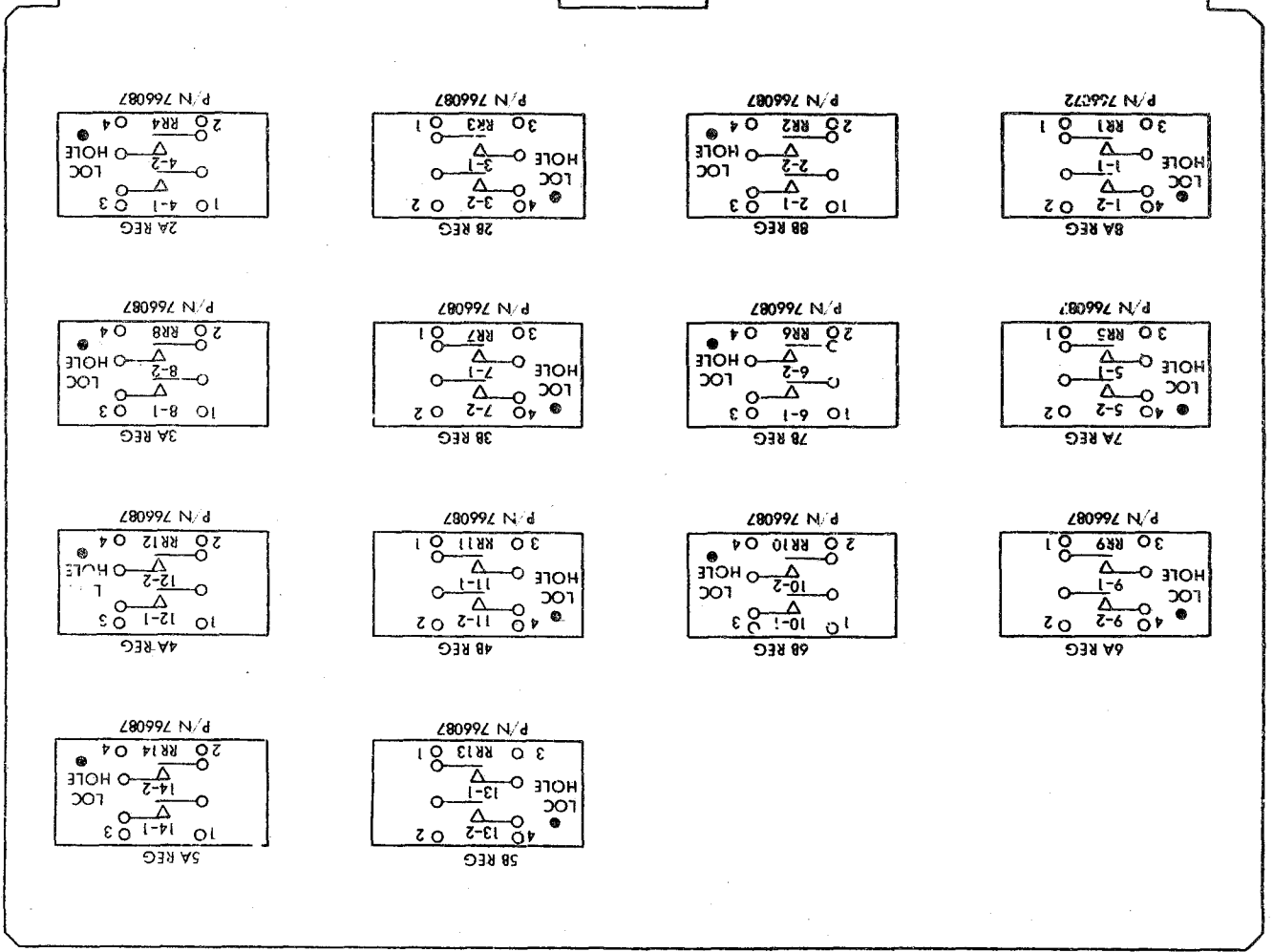
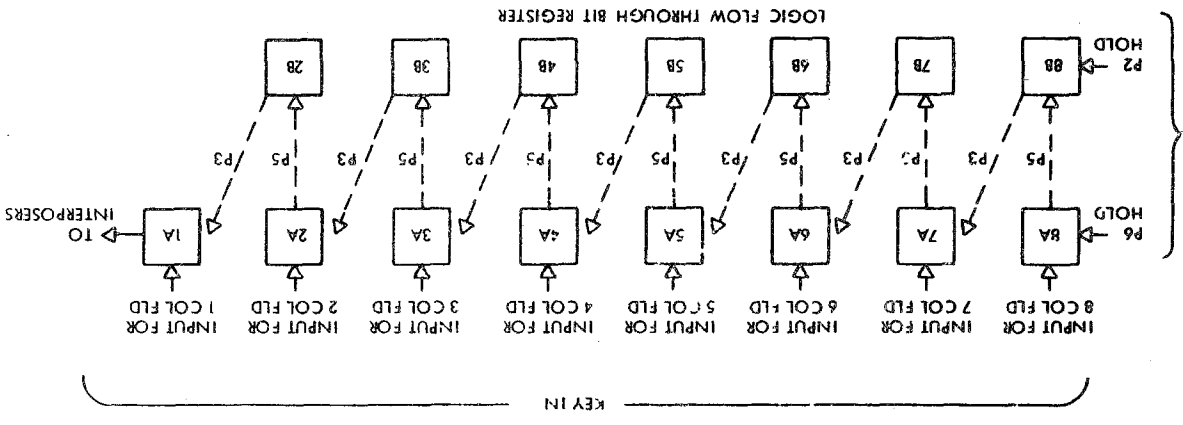
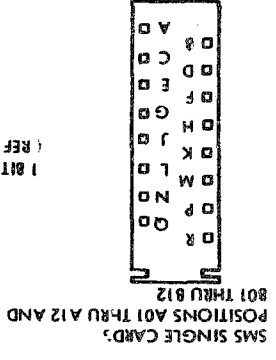
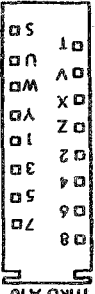
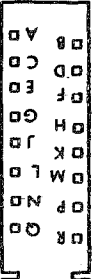
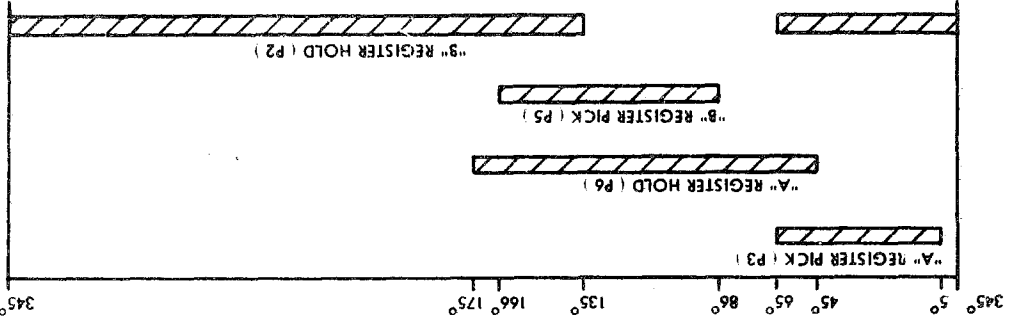
- NOTES
- XI POINT TO POINT WIRING FOR - 48V AND "0" VOLT NETS SHOWN ON REF PAGE
 - XII DIODE NOT REQ'D ON NON-PRINT. JUMPER IS INSTALLED ON NON-PRINT MACHINES.

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEMS DIAGRAM	19 SEP 66	205666 - G	1 MAY 67	206011	NOTE X PRINT TO ENG. SPEC. NO. 895291	
DESIGN	1A REG DECODE - READOUT	18 OCT 66	205811-A				
DETAIL	EB SEP 66 MODEL	11 NOV 66	205813-A				
CHECK	AG 9 SEP 66	23 JAN 67	205840				
APPRO	RAS 9 SEP 66 DRAW	GT 7 SEP 66					
		20 FEB 67	205962				

NAME	SYSTEMS DIAGRAM	DATE	9 FEB 67	CHANGE NO.	205842 A
DESIGN	LZ REG (SMS CARD)	DATE		CHANGE NO.	
DETAIL	EB (SMS MODEL)	DATE		CHANGE NO.	
APP'D	AG (SMS)	DATE		CHANGE NO.	
CHK'D	AG (SMS)	DATE		CHANGE NO.	
APP'D	RSS (SMS)	DATE		CHANGE NO.	

5405954

VIEW - TOP OF OPEN GATE (WIRING SIDE)



COIL TERMINAL IDENTIFICATION

1 PICK A
2 HOLD A
3 PICK B
4 HOLD B

5405954

MASTER

19

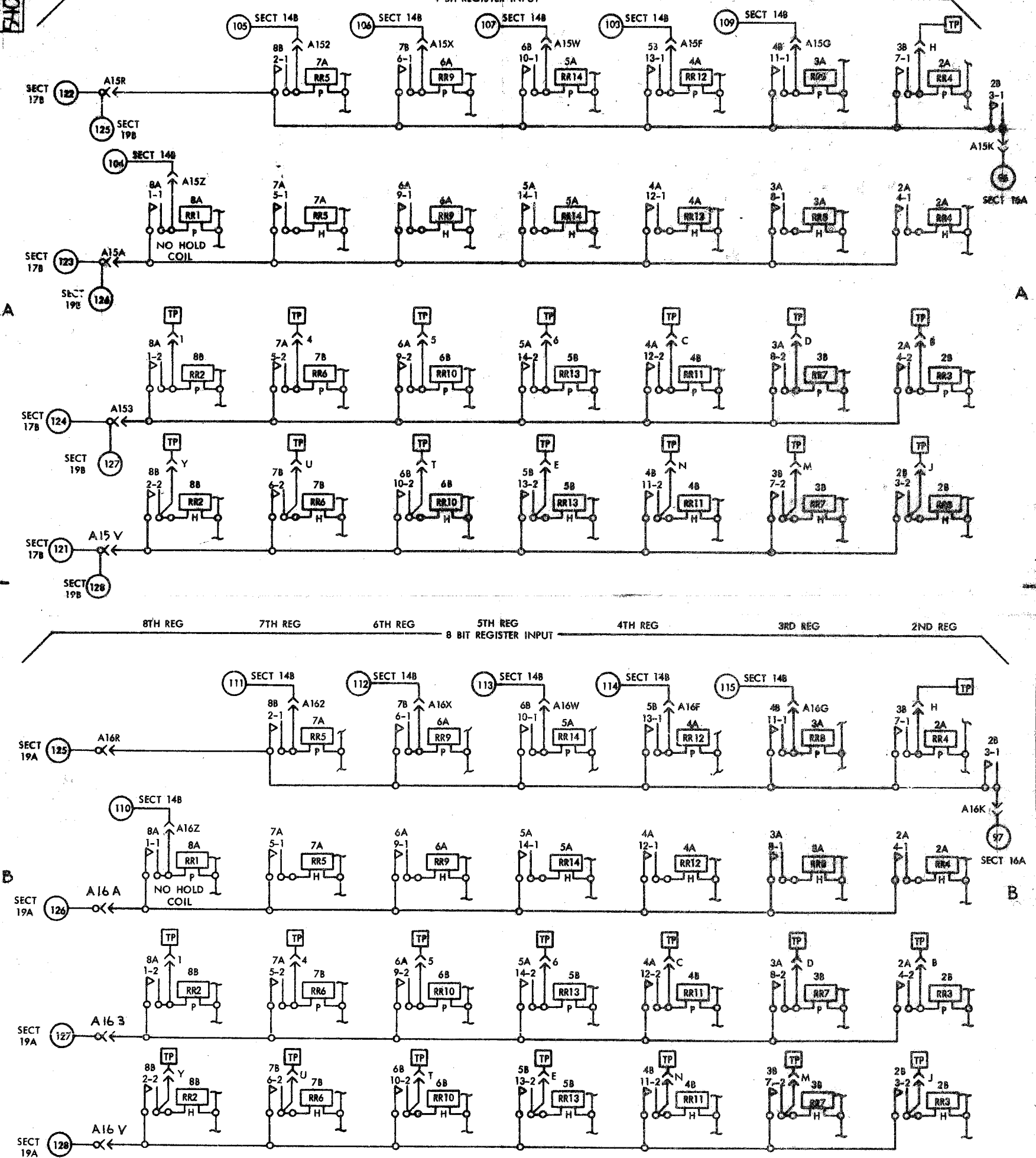
20

SHEET 2 OF 3

MOD "B" BIT REGISTER

4 BIT REGISTER INPUT

8 BIT REGISTER INPUT



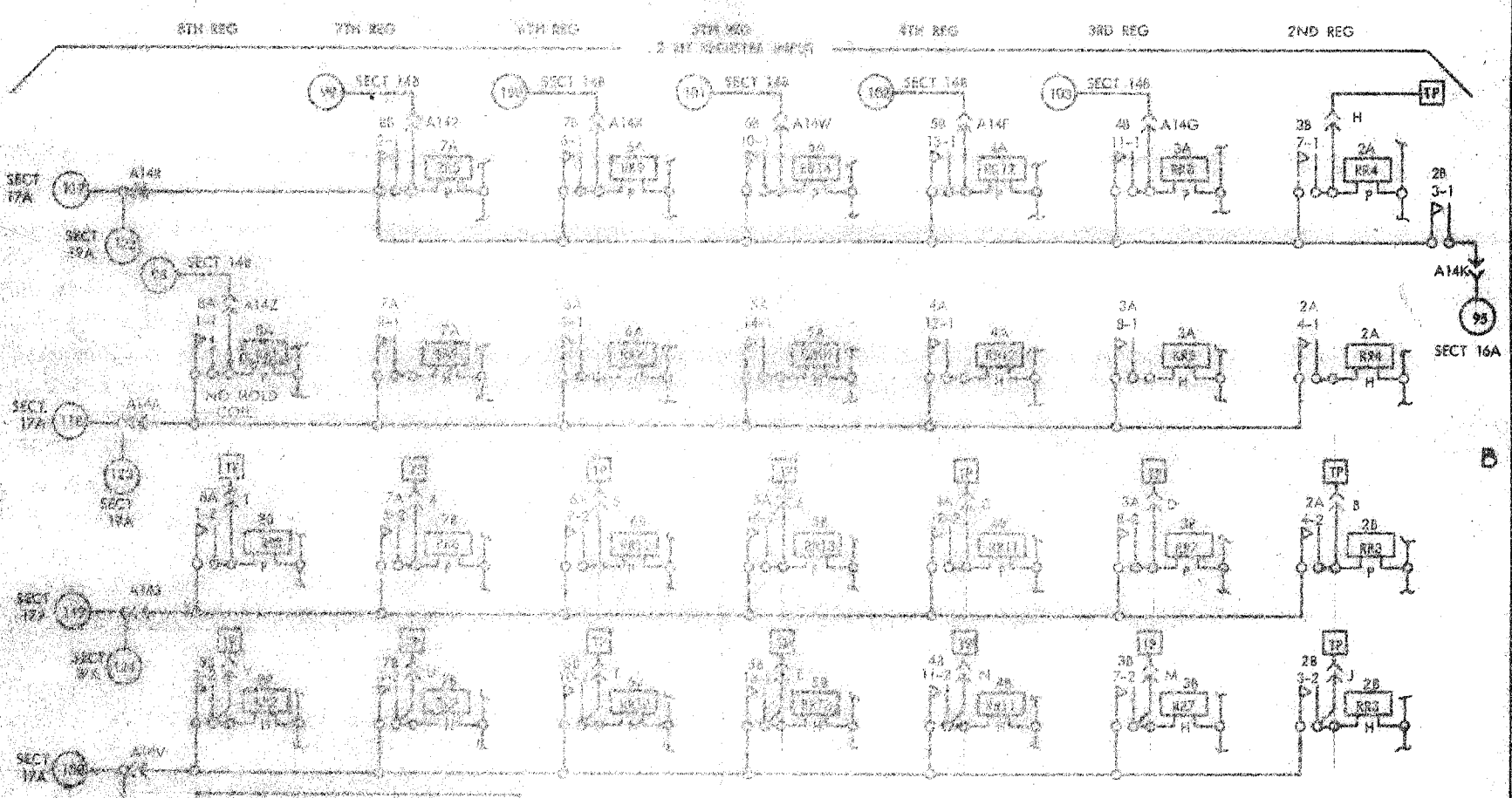
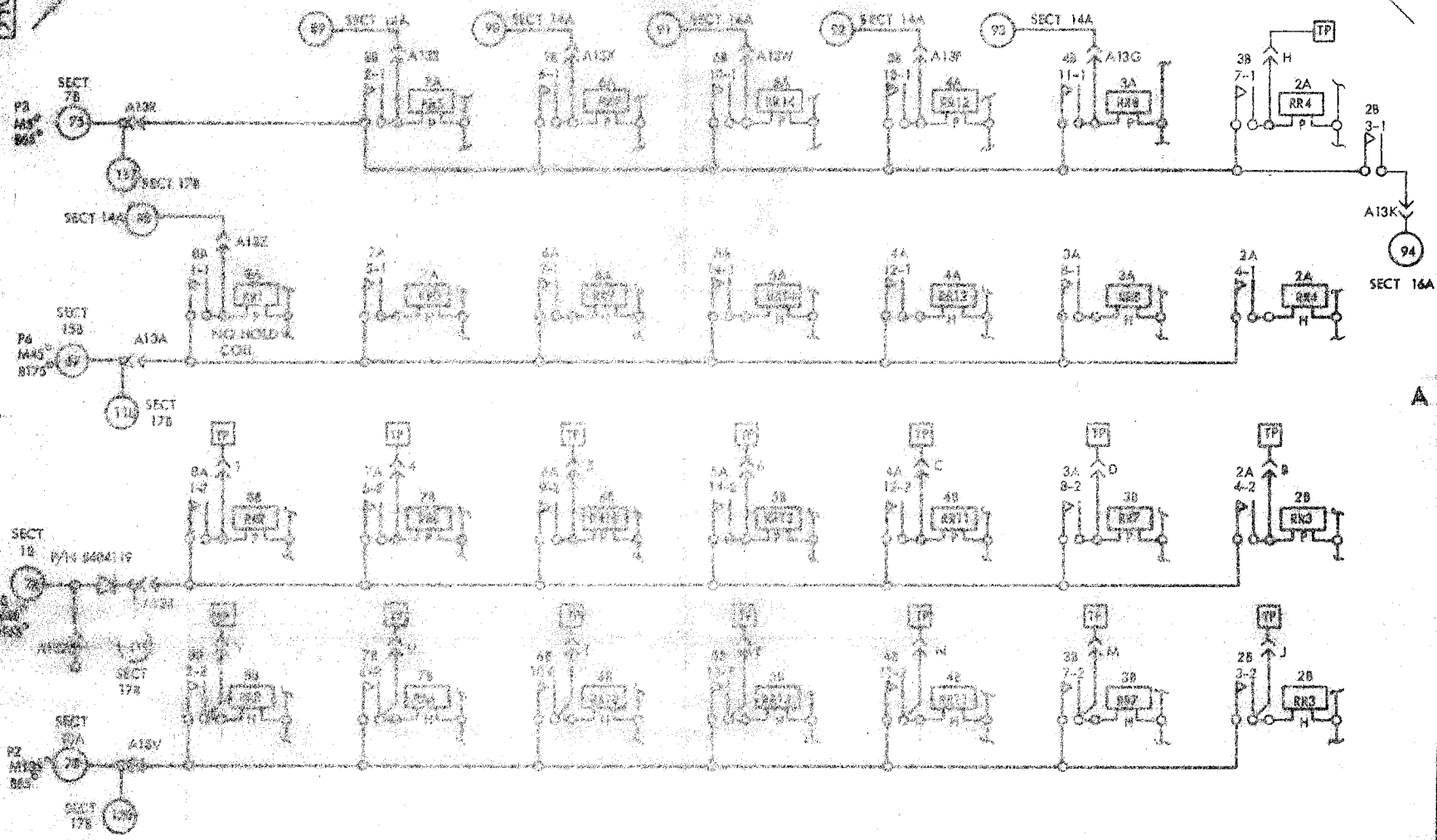
"0" VOLTS \longleftrightarrow "0" VOLTS
 TP = TEST POINT ONLY

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	9 FEB 67	205842 A			X PRINT TO ENG. OPED. NO. 895291	
DESIGN	EB						
DETAIL	AG						
CHECK	RAS						
APPRO	RSS						

MASTER

MOD 2 BIT REGISTER
3RD REG
1ST REGISTER 10-11-12



15 VOLTS
10 TEST POINT ONLY

NOTES
21 POINT TO POINT WIRING FOR 15V AND 10V VOLT MEAS SHOWN ON REF PAGE

REV	DATE	BY	CHKD	DRG NO.	NOTE	DEVELOPMENT NO.
1	7 FEB 67	20000 A			PRINT TO ENG. SPEC. NO. 005201	

5405963

STANDARD CODE

25

26

CARD CODE

SHEET 2 OF 2

PUNCH CAMS

NO.	LOC	PART NO.	M	B
1	12 B	309630	180° ± 2	0° ± 3
2	9 A	309634	135° ± 3	65° ± 2
3	7 B	350359	5° ± 1	65° ± 3
4	7 A	309630	175° ± 3	35° ± 2
5	1 B	309629	86° ± 3	166° ± 2
6	15 A	326429	45° ± 2	175° ± 3
7	15 B	309630	210° ± 3	30° ± 2

CARD FEED CAMS

NO	LOCATION	PART NO	MAKE CONTACT	BREAK CONTACT
2	6 A	344181	265° ± 5	65° ± 2
3	7 B	315042	75° ± 2	285° ± 5
4	9 B	313807	5° ± 2	100° ± 5

REED RELAY DATA

PART NO.	COIL	1	2
766072	P H	N/O	N/O
766087	P H	N/O	N/O

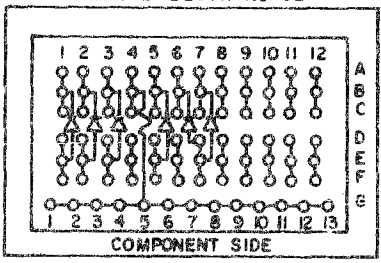
ARC SUPPRESSION BLOCKS

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

P/N 328602

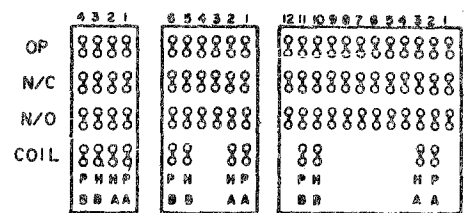
P/N 328601

TERMINAL BLOCK NO. 32



T832 LOCATION

COMP P/N	DIODE 347820	DIODE 347820	DIODE 347820	RESISTOR 5405904	DIODE 347820	DIODE 347820	DIODE 347820
PIN	1	2	3	4	5	6	7
A	15B	12A	11A	1B	15B	15B	15B
B	15B	12A	11A	1B	15B	15B	15B
C				1B			
D			11A				15B
E	15B	12A	11A		15B		15B
F	15B	12A	11A		15B		15B
G	24A	24A	14A		1B		



WIRE CONTACT RELAYS WIRING SIDE

CIRCUIT AND PACKAGING STANDARD	
APPROVAL	DATE

25

26

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME	SYSTEMS DIAGRAM	1 MAY 67	206011					
DESIGN	E B I SEP 66 MODEL	28 JUN 67	206087					
DETAIL	A G SEP 66 SCALE	4 NOV 69	920064					
CHECK	R A S B SEP 66 DRAW	9 APR 70	920064A					
APPRO	R S S B SEP 66 CHECK							

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C

5405953

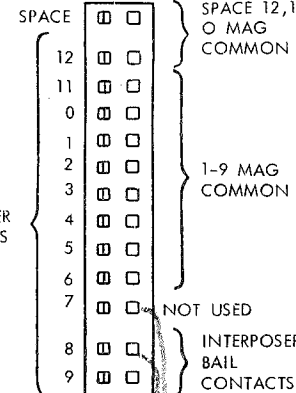
23

24

SHEET 1 OF 2

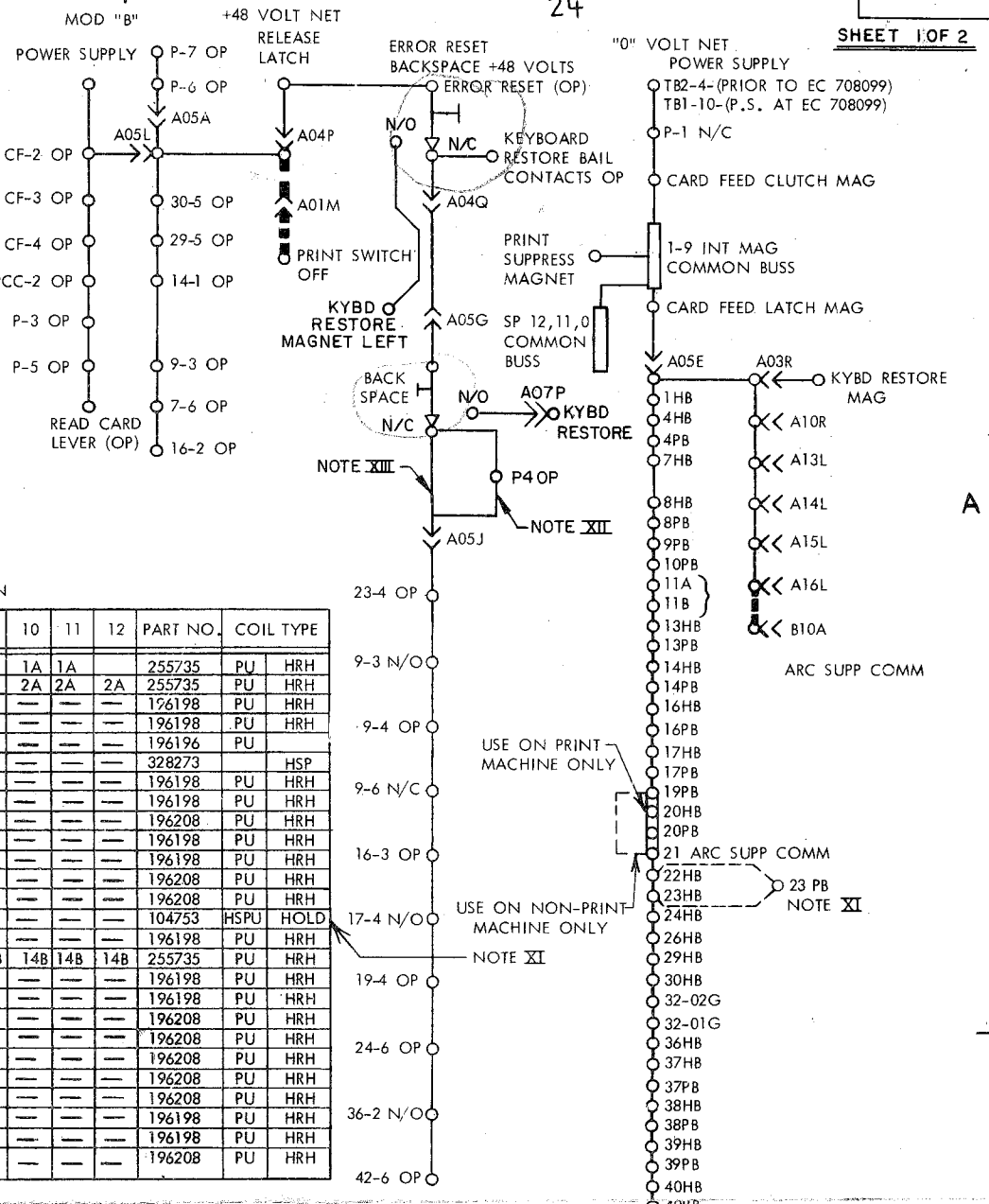
PUNCH UNIT TERM BLOCK
FACING WRINKLED LUGS

(PRIOR TO EC 708099)-TB2-5
(P.S. AT EC 708099)-TB1-9



DISCRETE COMPONENTS

PART NO.	FROM	TO	SECT.
2160917	ACROSS CD FD MAG		6A
347820	19-3 N/C	20-2 OP	5B
347820	7-6 N/O	8-5 N/C	8A
347820	9-2 N/O	11A-3	8A
347820	42-4 OP	42-3 OP	15A
5404119	A03R	A06R	10A
5404119	A133	A137	17A
347820	42-1 N/O	42 PA	16B



WIRE CONTACT RELAY LOCATION

RELAY	NO.	COIL P	COIL H	1	2	3	4	5	6	7	8	9	10	11	12	PART NO.	COIL TYPE
FIELD 1	1		14A	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	255735	PU HRH
DUP3	4	8B	8A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	255735	PU HRH
DUP1	7	8A	8A	8A	7B	10A	12A	1B	9B							196198	PU HRH
DUP2	8	8B	8A	8A	9A	10A	10A	7A	11A							196198	PU HRH
ESC INLK 2	9	10A	12A	8A	11B	9A	9A	7A								196196	PU
ESC INLK 1	10	10A	10A		*	12B										328273	HSP
PROGRAM 1	13	6A	6A	6A	11A	11B	6A	6B								196198	PU HRH
PROGRAM 2	14	6A	6B	6B	6A	7A	9B	13A	13A							196198	PU HRH
RELEASE	16	8B	8B	8B	9B	11A	12A									196208	PU HRH
CLEAR	17	8B	8B	8B	5A	8B	7B	8B	8B							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	10B	10A	9A	12A	12A	11B									104753	HSPU HOLD
CARD LEVER	24	8B	8B	8B	1A	6A	11B	11A	7A							196198	PU HRH
FIELD SIZE 1	26		14A	14A	14A	14A	14B	14B	14B	14B	14B	14B	14B	14B	14B	255735	PU HRH
FIELD SIZE 2	29		14A	14A	14B	14B	14B	14A								196198	PU HRH
FIELD SIZE 3	30		14A	14A	14B	14B	14B	14A								196198	PU HRH
FIELD 2	36		14A	15B	15A	15B	9B									196208	PU HRH
1A1 REG	37	16A	16A	16A	16B	16B										196208	PU HRH
1A2 REG	38	16A	16A	16A	16B	16B										196208	PU HRH
1A4 REG	39	16A	16A	16A	16B	16B										196208	PU HRH
1A8 REG	40	16A	16A	16A	15B											196208	PU HRH
CREDIT	41	16B	16B	16B	8A	15A	15B	15A								196198	PU HRH
READOUT	42	16B	16B	16B	16B	15A	15B	15B								196198	PU HRH
READOUT INLK	43	16A	16B	9A	16B	8A										196208	PU HRH

* DO NOT INSERT WIRES

SMS CARD NAME CONNECTOR CHART

SMS CARD NAME	A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	A12	A13	A14	A15	A16	B10
A	5A	12A	1A	1A	24A	2A	1B	6A	11A	10B		13B	17A	17B	19A	19B	6B
B	5A	15B	1A	1A	1B	2A	1B	6A	11A	15A		13B					5B
C	5A	16B	1A	1A	1B	2A	1B	7B	7A	5A		13B					5B
D	5A	MCI	1A	1A	6A	2A	1B	5A	9B	12B		13B					5B
E	7A	AUX DUP	5A	1A	24A	2A	1B	7B	13A	10A		13B					5B
F	8A	4B	5A	1A	11B	2A	1B	7A	13A	12B		13B	18A	18B	20A	20B	5B
G	11A	5A	5A	1A	24A	2A	1B	7B	11B	5A		13B	18A	18B	20A	20B	6B
H	11A		5A	1A	15A	2A	1B	9A	11A	12B		13B					6B
J	7B		7A	1A	11B	2A	1B	10A	7A	12A							5B
K	7B		7A	1A	16B	2A	1B	9B	9B	7B		14A	18A	18B	20A	20B	5B
L	6B		10A	1A	24A	2A	1B	9B	13A	10B		13B	24A	24A	24A	24A	5B
M	6B	XSKIP	10A	1A	VLCD	2A	1B	11A	13A	10A		13B					5B
N	6B	8B	9B	1B	HSS	2B	12B	11A	10A	12B		13B					
P	MCI	11A	10B	24A	HSS	7B	10B	11A	12B	12A		13B					
Q		5A	10B	24A	MCI	8B	8B	12B	6B	7B		13B					
R		8B	10B	4B	HSS	10A	7B	1A	9A	10B		14B	17A	17B	19A	19B	
S																	
T																	
U																	
V													17A	17B	19A	19B	
W													18A	18B	20A	20B	
X													17A	17B	19A	19B	
Y																	
Z													17A	17B	19A	19B	
1																	
2													17A	17B	19A	19B	
3													17A	17B	19A	19B	
4																	
5																	
6																	
7																	
8																	

LEGEND

- PRINT FEATURE WIRING
- COMBINATION KEYBOARD WIRING
- NUMERIC KEYBOARD WIRING

INTERNATIONAL BUSINESS MACHINES CORP.	DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME SYSTEMS DIAGRAM	9 FEB 67	205842 A	4 NOV 69	920064	X PRINT TO ENG. SPEC. NO. 895291	
COMPONENT LOCATION	27 MAR 67	205983	9 APR 70	920064 A		
DESIGN EB 11 SEP 66	17 APR 67	205981				
DETAIL AG 9 SEP 66						
CHECK RAS 9 SEP 66	1 MAY 67	206011				
DRAW IDI 23 JAN 67						
APPROV R55 9 SEP 66	28 JUN 67	206087				

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

5405953

5373561

00.29.10.0

KEYBOARD & CAM REFERENCE

MASTER

MECHANICAL TIME CHART
CARD FEED MECHANISM

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	Z		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	19	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	19,5	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	&	11-7	12	13	12	X	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

CARD FEED CLUTCH
60 RPM
1° = 2.78MS

CARD FEED KNIFE

CARD ALIGNER
(VERTICAL ALIGNMENT)

CARD PUSHER FEED
(FOR DETAIL CARD)

PRESSURE ROLLS
(ON FEED WHEELS)

INSERTING ROLL
(FOR MASTER CARD)

CARD REGISTER STOP
(FOR MASTER STOP)

EJECT ROLL
(FOR CARD TO BE STACKED)

CARD PUSHER-
STACKER

STACKER DRUM
GRIPPERS

PUNCH CLUTCH
(200 RPM)
1° = 1.54MS

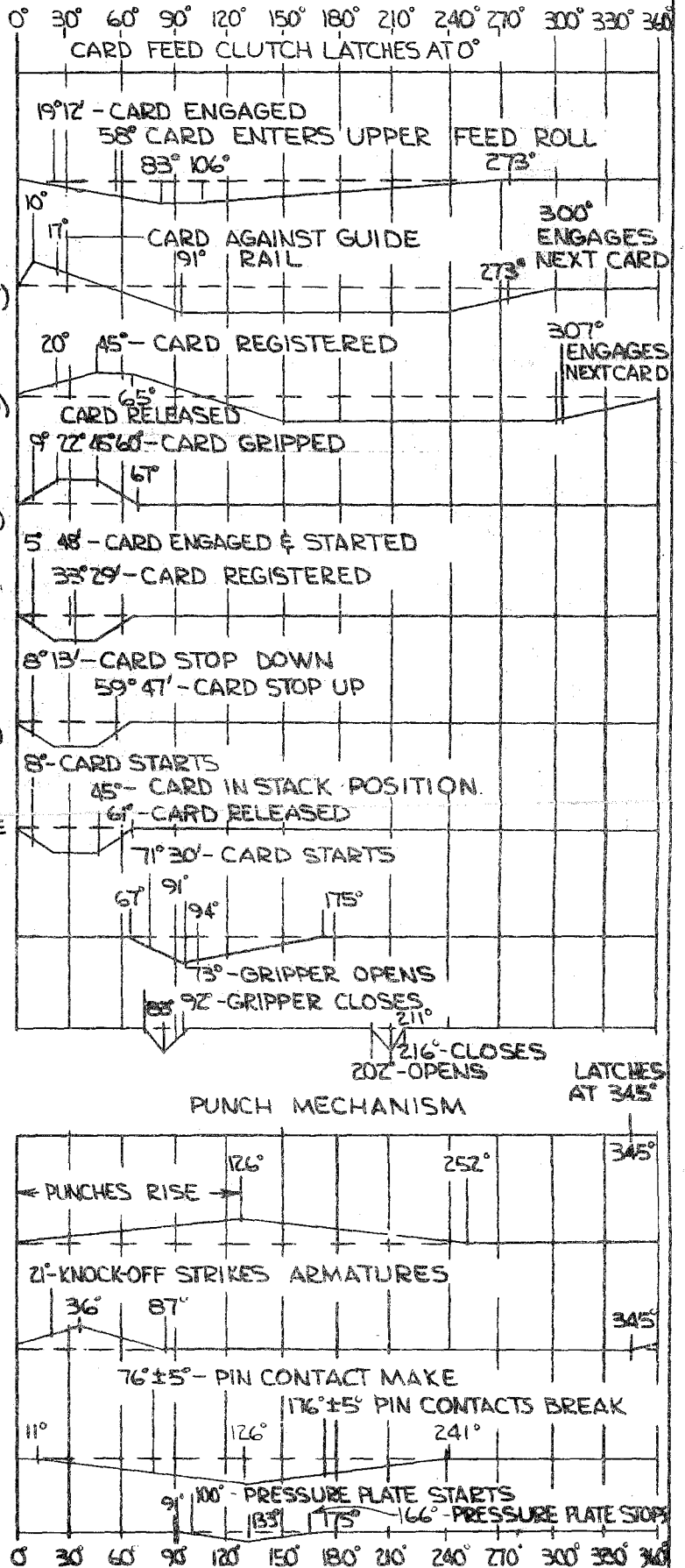
PUNCH BAIL
(180 RPM)
1° = 1.54MS

PUNCH BAIL

ARMATURE
KNOCK-OFF

PIN OPER CAM

PRINT CAM



INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
TITLE: SYSTEMS DIAGRAM		12-30-64	205199			PRINT TO ENG. SPEC. NO. 895291	
DESIGN: WT 11-23-64							
CHECK: LF 11-23-64							
APPRO: JKC 11-23-64							

00.29.10.0

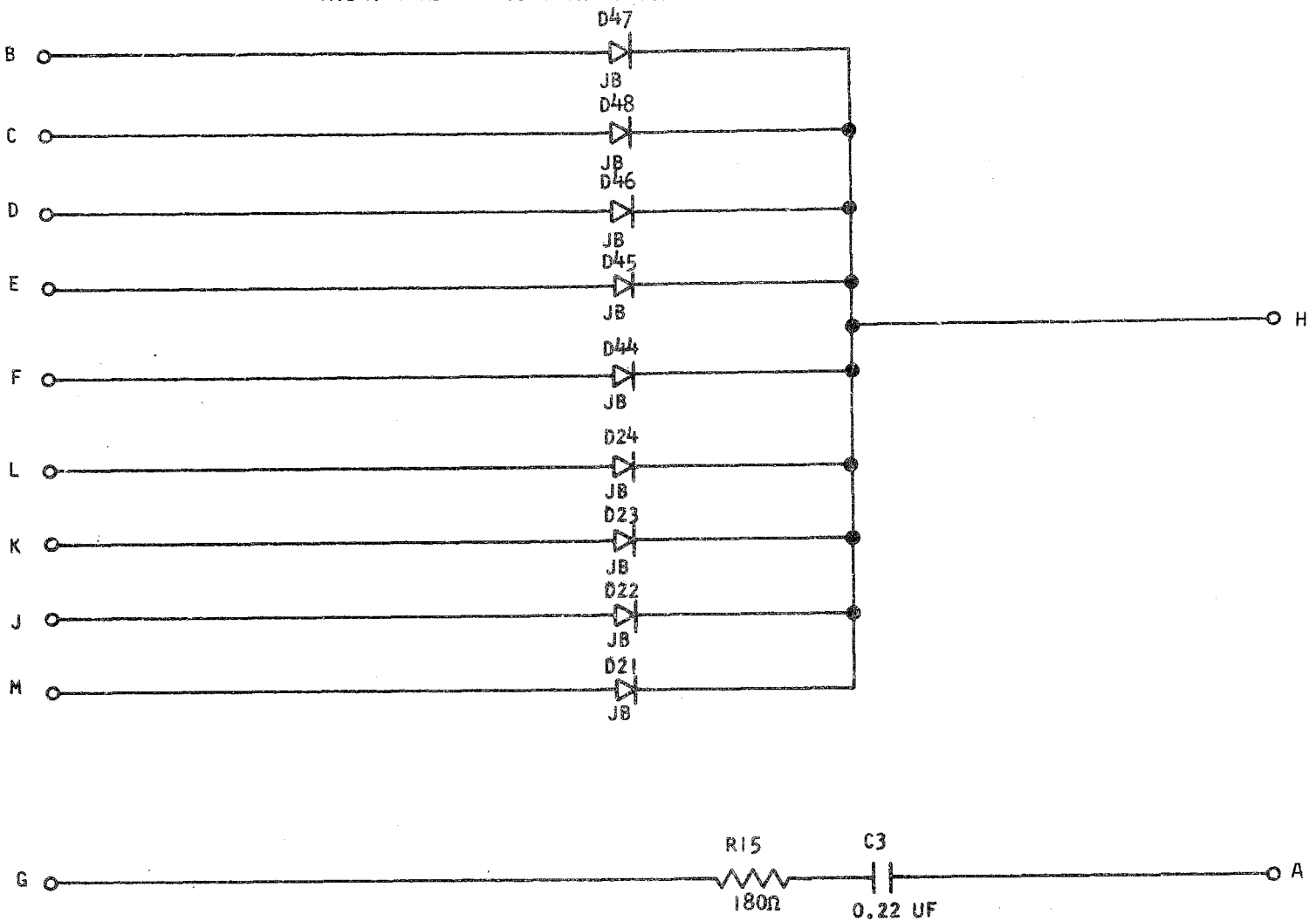
5373561

375105

PRINT

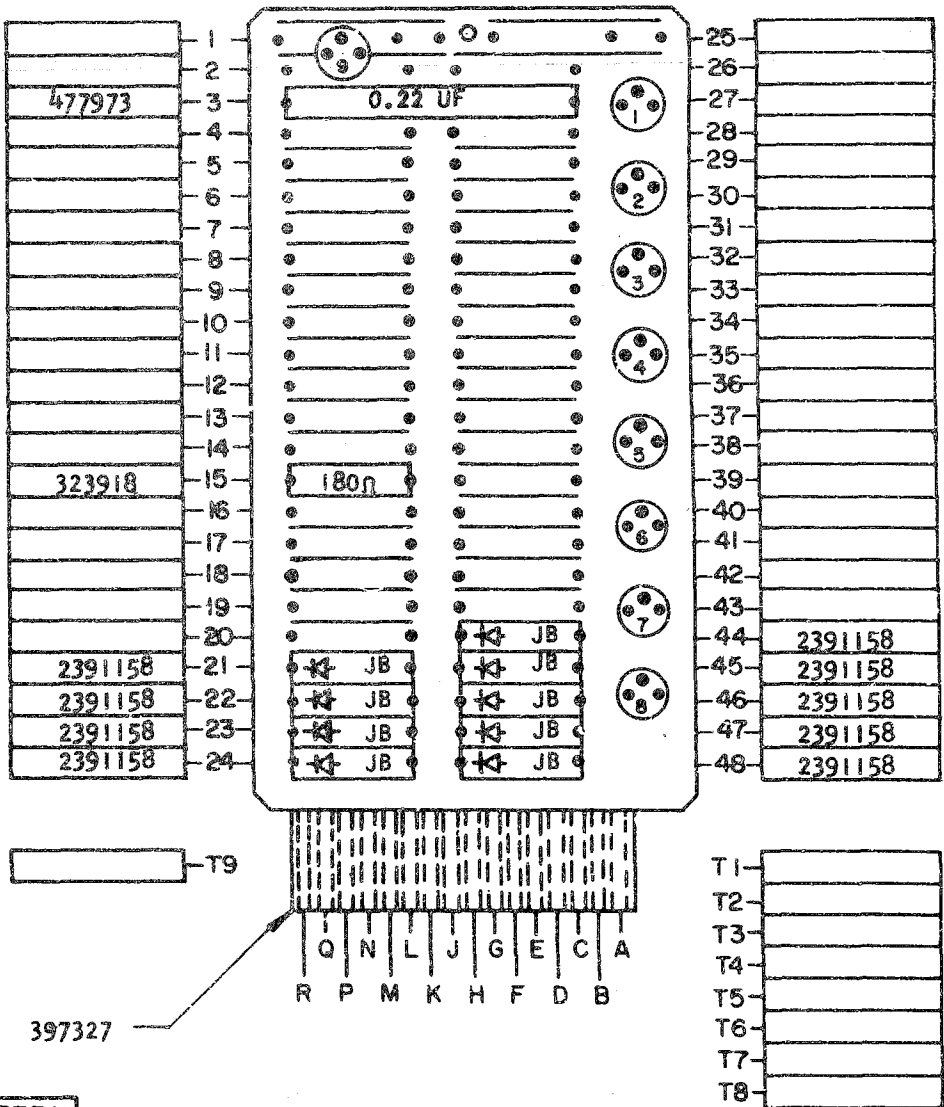
MOUNT CARD ON 1.0 INCH CENTERS - NOTE XIII

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. Pw 5-31-66

CIRCUIT AND PACKAGING STANDARD

APPROVAL DATE

KAT NPB 5/6/66

HOLE PATTERN 493457

397327

COMPONENT SIDE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME	CARD ASM TSTR - PRINT			1 JUN 66	126540	AKK				PA-3400 A
DESIGN	VE	5 APR 66	MODEL	SMS						
DETAIL	VE	5 APR 66	SCALE	NONE						
CHECK	VE	5 APR 66	DRAW	VE 5 APR 66						
APPRO			CHECK	CFC 4-11-66						

82-3987-2 6-22-61

375105

C. B. CO., NO. 8575B 4186

375106

ARC SUPPRESSION

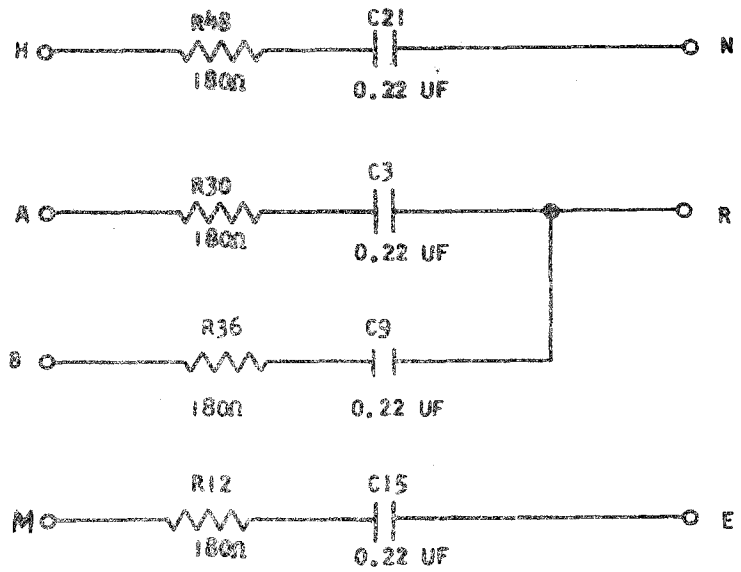
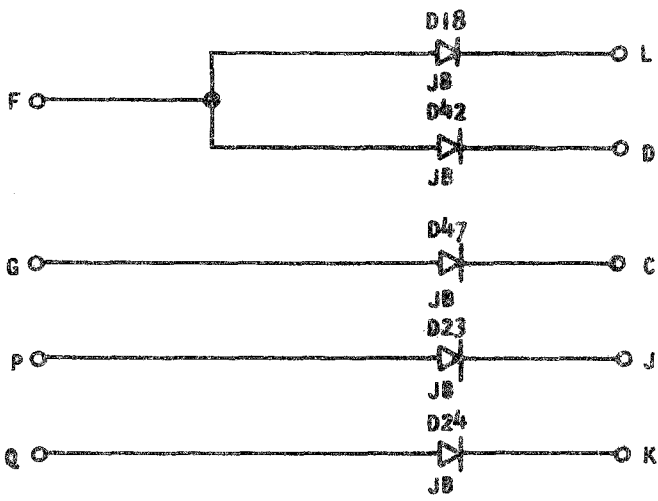
MOUNT CARD ON 1.0 INCH CENTERS - NOTE XIII

375106

F F J -

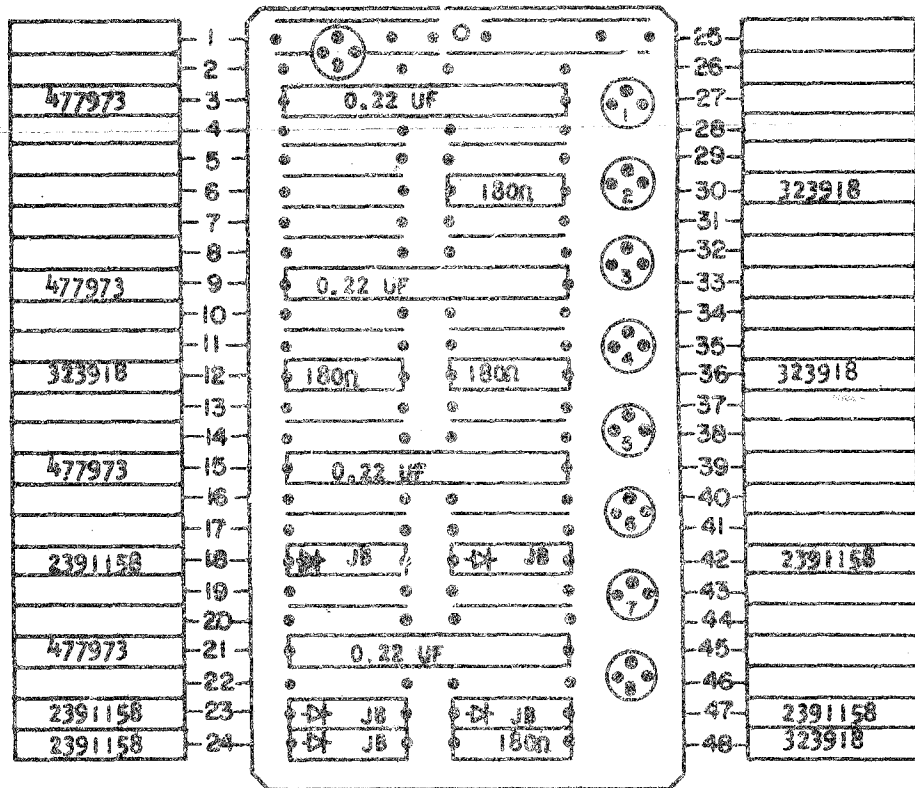
STANDARDS CODE

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

MFG. ENG.	PW	26APR67
CIRCUIT AND PACKAGING STANDARD		
APPROVAL	DATE	

KMT UPTB	5/6/66	HOLE PATTERN
		493457

COMPONENT SIDE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME				1 JUN 66	126540	AKR				PA-3401A
ARC SUPPRESSION				16 FEB 67	131075	GWS				
DESIGN VE	SAFRA	MODEL	SMS	27 APR 67	131083	GWS				
DETAIL VE	SAFRA	SCALE	NONE							
CHECK VE	SAFRA	DRAW	VE							
APPRO		CHECK	Cfe	4-11-66						

82-3987-2 6-22-61

375106

C. B. CO. NO. 107878

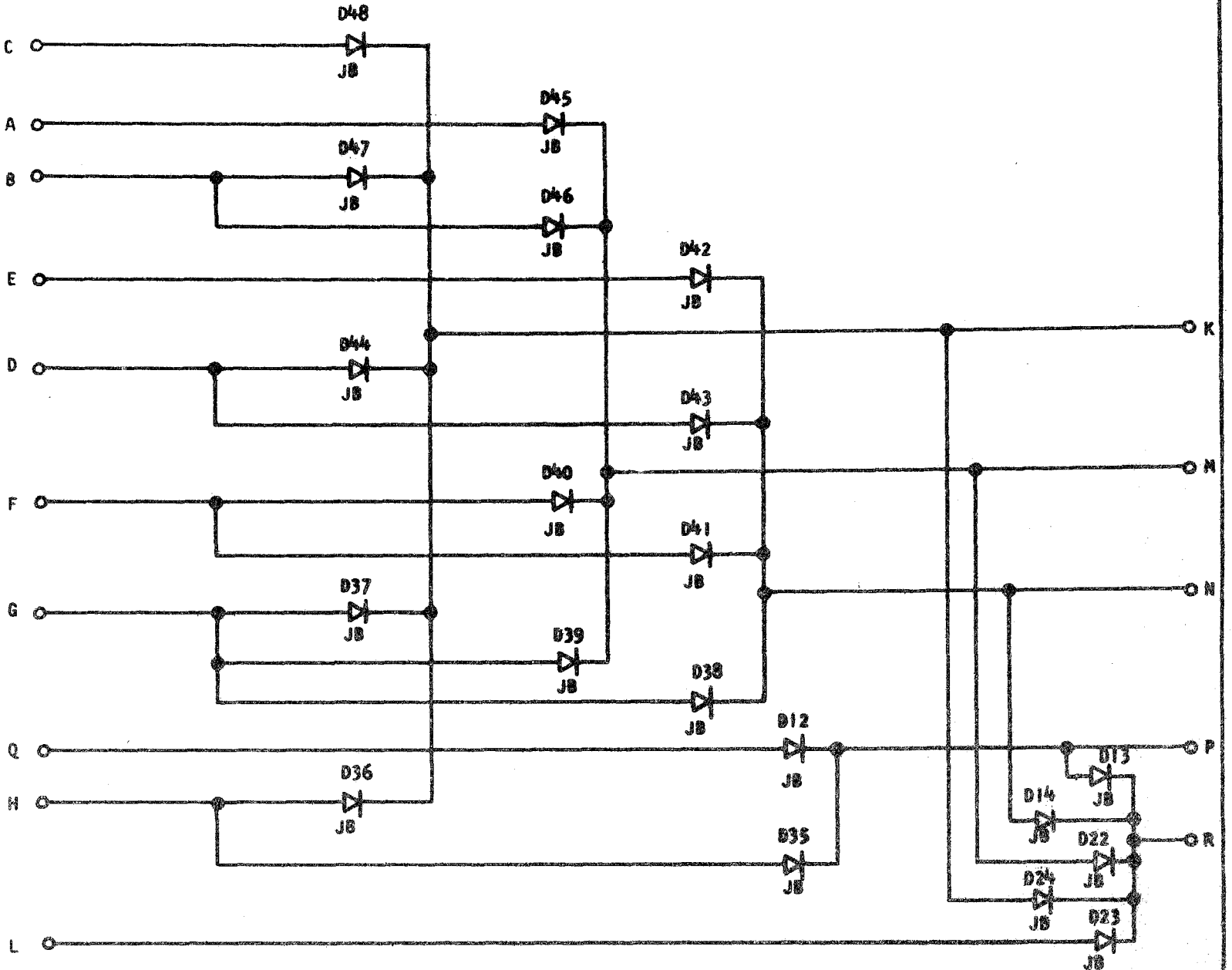
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ENCODE

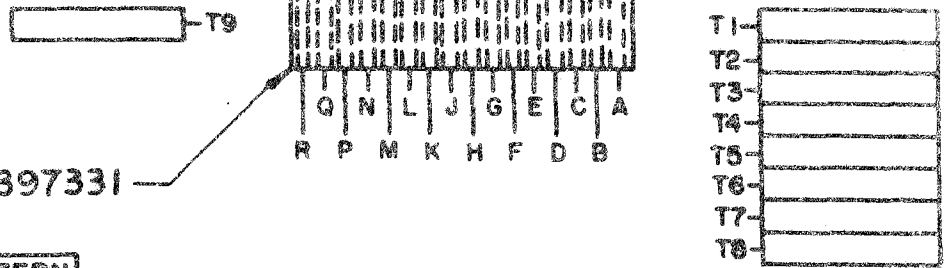
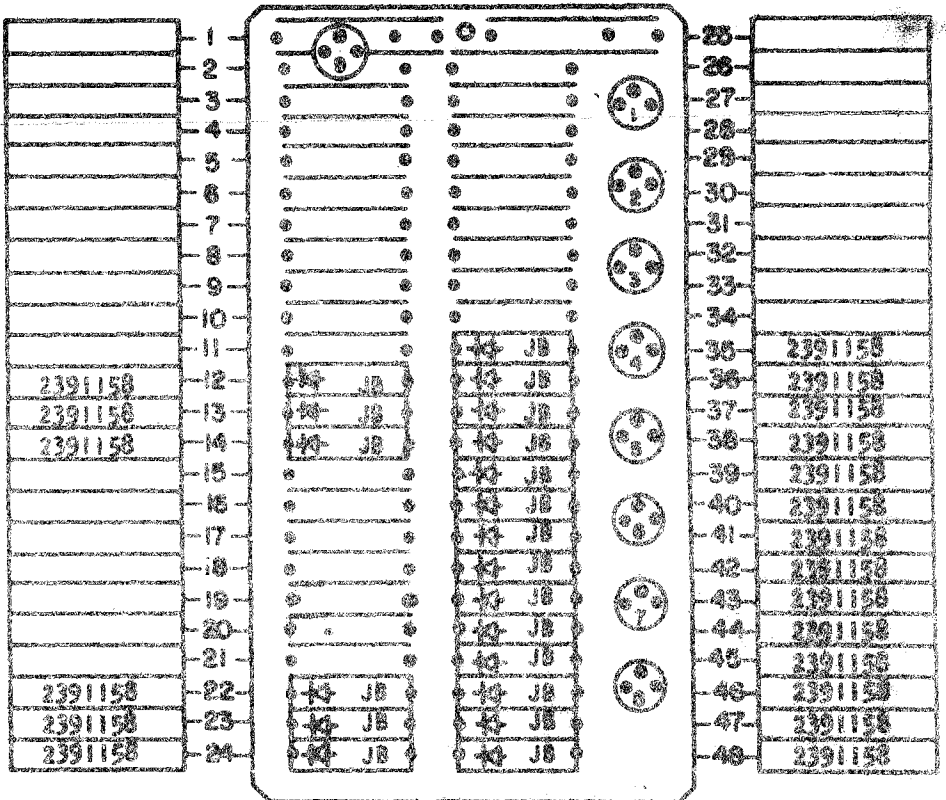
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FFK -

STANDARDS CODE 2-7045



NOTES
 I CIRCUIT MUST CONFORM TO ENGINEERING SPECIFICATION
 II ASSEMBLE TO ENGINEERING SPECIFICATION 895396 AND 891999



B

MFG. ENG.	PW	5-31-66
CIRCUIT AND PACKAGING STANDARD		
APPROVAL	DATE	
KMT/PPB	5/6/64	
HOLE PATTERN		493487

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	APPROVAL	DATE	CHANGE NO.	APPROVAL	DEVELOPMENT NO.
NAME CARD ASM TSTR - ENCODE				1 JUN 66	126540	PKR				PA-3402 A
DESIGN	VE	5 APR 66	MODEL	SMS						
DETAIL	VE	5 APR 66	SCALE	NONE						
CHECK	VE	5 APR 66	DRAW	VE	5 APR 66					
APPRO			CHECK	CF	4-11-66					

375107

C. S. CO. NO. 1000000

F E A T U R E

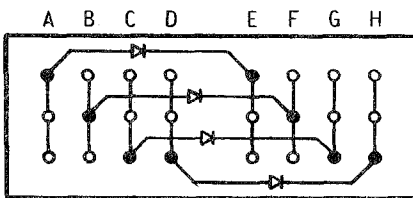
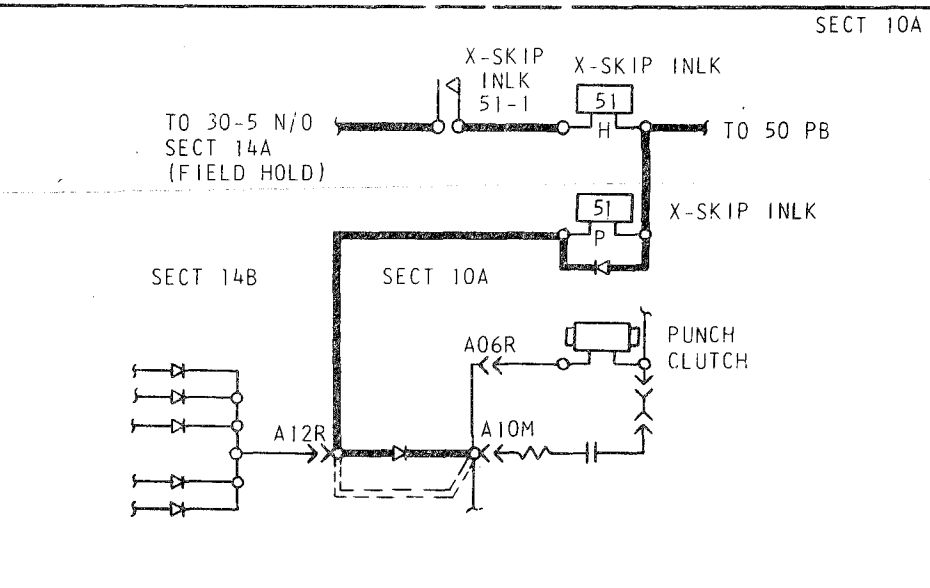
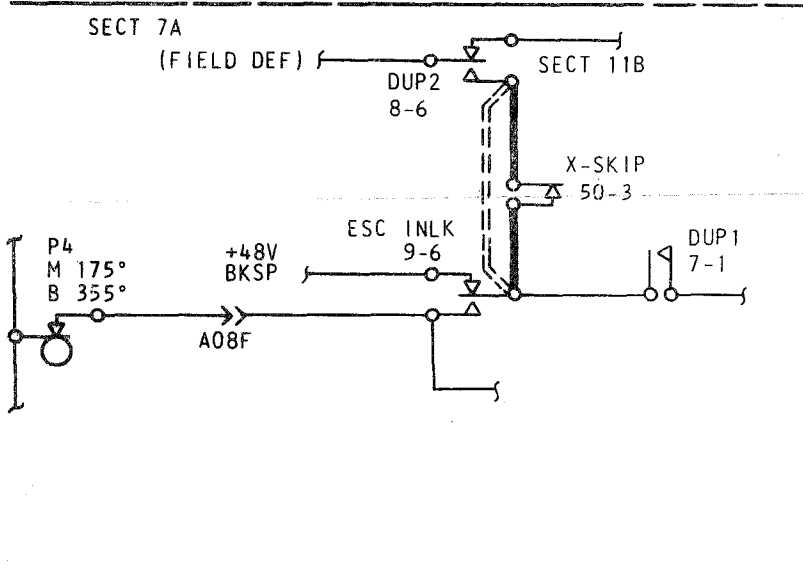
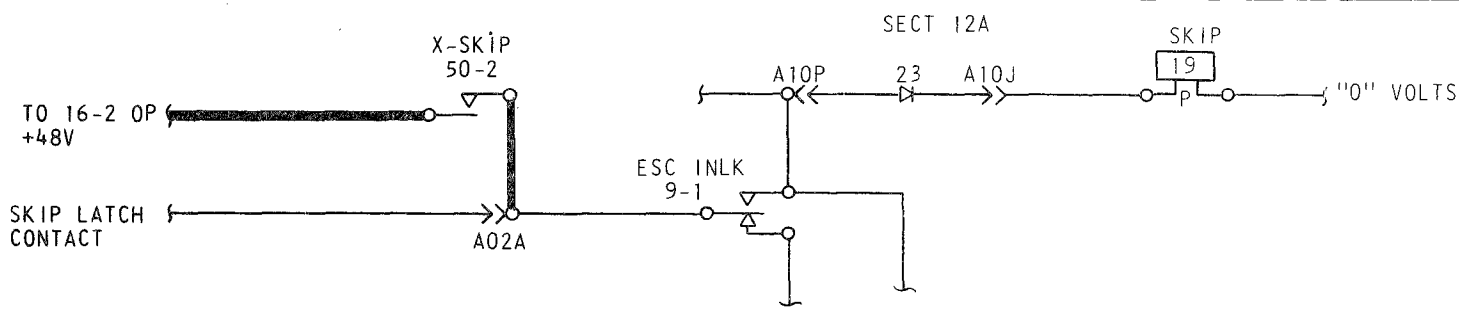
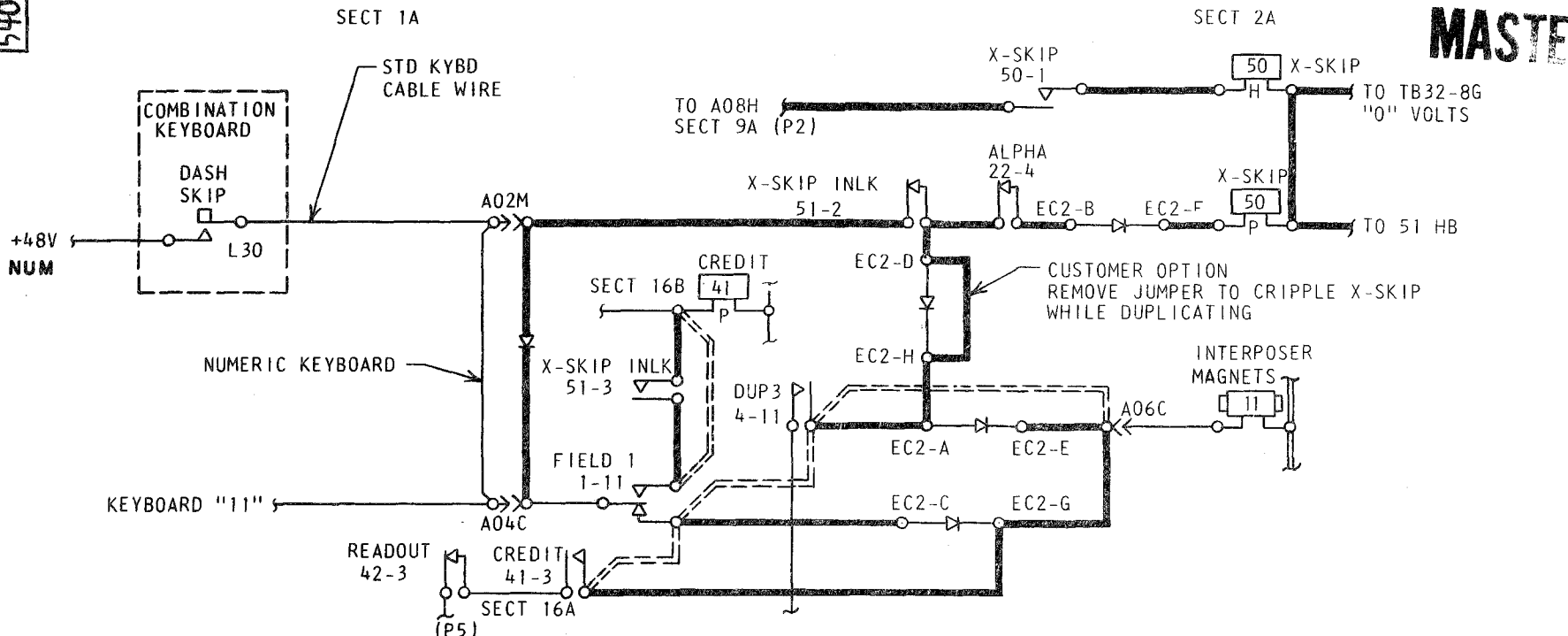
P A G E S

5405964

MODEL B
X-SKIP

SHEET 2 OF 2

MASTER



EDGE CONNECTOR NO. 2
SERVICING VIEW

— STANDARD WIRING
- - - REMOVED WIRING
- - - - - ADDED WIRING

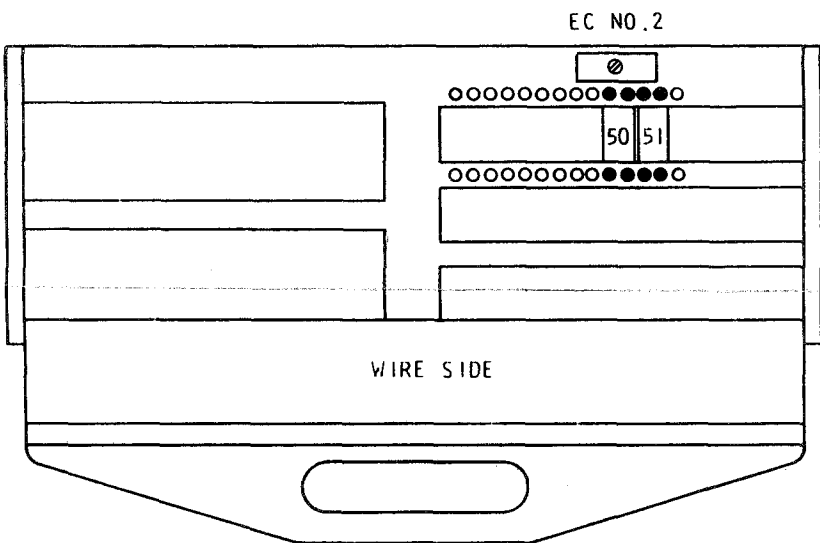
NOTES
XI STANDARD WIRES ARE SHOWN FOR REFERENCE ONLY. CONSULT MACHINE LOGIC DIAGRAMS FOR DETAIL WIRING
XII REMOVE THIS LEAD AND TAPE END

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEMS DIAGRAM	19OCT66	205745 B			X PRINT TO ENG. SPEC. NO. 895291	5405964
DESIGN	AG SEP66 MODEL	14FEB67	205854				
DETAIL		12JUL67	206089				
CHECK	RAS SEP66 DRAW LHM 19OCT66	8 JUN 70	920106				
APPRO	FH						

5405964

MASTER

NAME	SECTION
X-SKIP FEATURE	1, 2, 7, 10, 11, 12, 16



KEYBUTTONS
COMBINATION KEYBOARDS—REPLACE DASH KEYBUTTON WITH KEYBUTTON P/N 5353766
NUMERIC KEYBOARD - REPLACE II KEYBUTTON WITH KEYBUTTON P/N 5422188

ADD

PART NO.	DESCRIPTION	FROM	TO
196208	RELAY 50-4 POS	—	—
196208	RELAY 51-4 POS	—	—
347820	DIODE	PLT-EC2-D	CATH-EC2-H
347820	DIODE	PLT-EC2-B	CATH-EC2-F
347820	DIODE	PLT-EC2-C	CATH-EC2-G
347820	DIODE	PLT-EC2-A	CATH-EC2-E
347820	DIODE	PLT-51PB	CATH-51PA
5404119	DIODE-SLIP ON	PLT-A12R	CATH-A10M
5404119	DIODE-SLIP ON	PLT-A02M	CATH-A04C
205330	BRASS JPR	50 HA	50-1 N/O
205330	BRASS JPR	51 HA	51-1 N/O
205331	BRASS JPR	50 HB	50 PB
205331	BRASS JPR	51 HB	51 PB
5406373	CABLE	—	—

DELETE

PART NO.	DESCRIPTION	FROM	TO
GATE	JPR	8-6 N/O XII	*9-6 OP XII
GATE	CABLE	*A10M XII	A12R XII
GATE	CABLE	*1-11 N/C XII	4-3 N/O XII
GATE	JPR	1-11 N/C XII	*4-11 OP XII
GATE	CABLE	*4-11 OP XII	A06C XII
GATE	CABLE	1-11 N/O XII	*41PA XII

* DENOTES WIRE END TO BE REMOVED AND TAPED

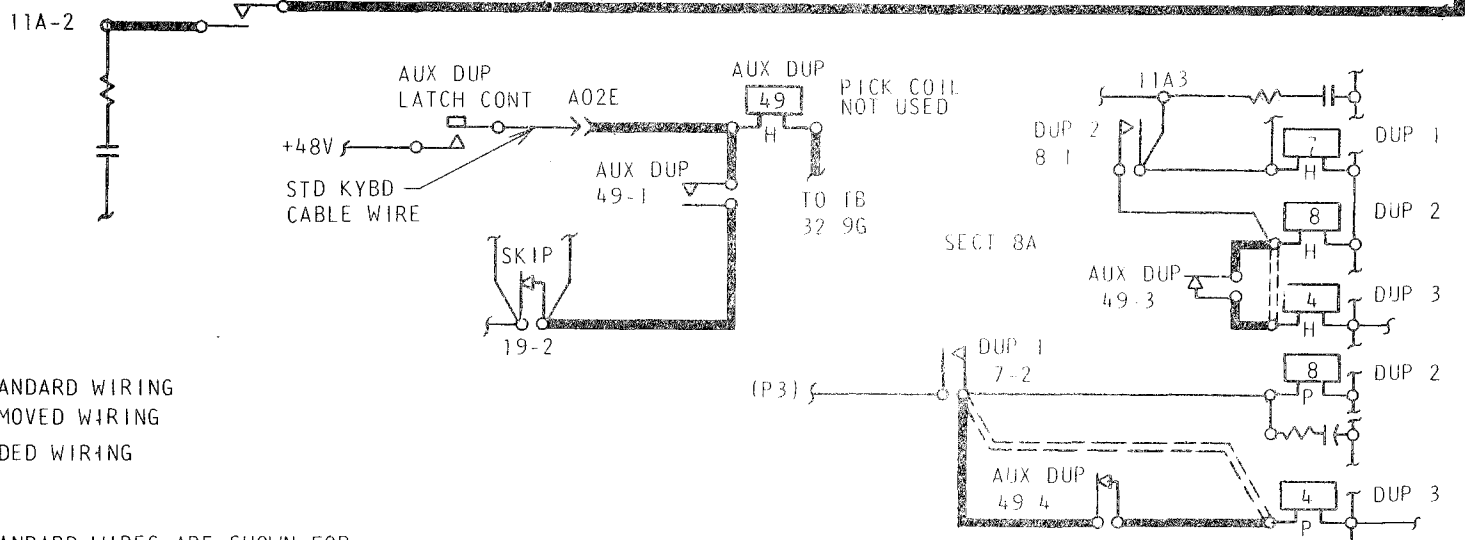
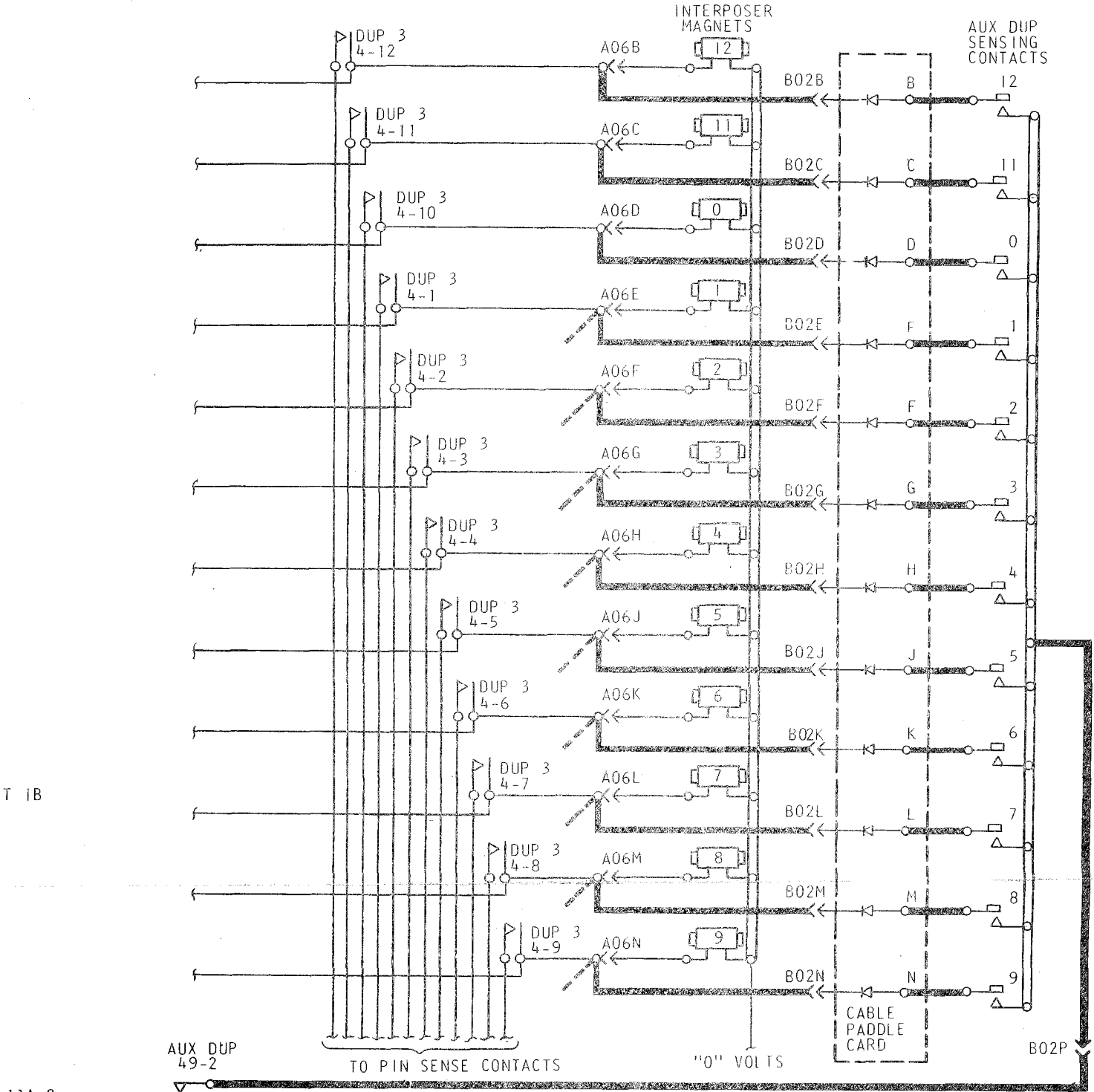
INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEMS DIAGRAM			19OCT66	205745 B			X PRINT TO ENG. SPEC. NO. 895291	5405964
DESIGN	AG	IS	MODEL	14FEB67	205854				
DETAIL				12 JUL 67	206089				
CHECK	RAS	IS	ARAW	9 JUN 70	920106				
APPRO	FH	SL	CHECK						

AUXILIARY DUPLICATION
AUX DUP

MASTER

SECT 2A

SECT 1B



- STANDARD WIRING
- == REMOVED WIRING
- ADDED WIRING

NOTES

- XI STANDARD WIRES ARE SHOWN FOR REFERENCE ONLY. CONSULT MACHINE LOGIC DIAGRAMS FOR DETAIL WIRING
- XII REMOVE THIS LEAD AND TAPE END

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEMS DIAGRAM			19 OCT 66	205745 B			X PRINT TO ENG. SPEC. NO. 895291	5405965
DESIGN	AG	15 SEP 66	MODEL	14 FEB 67	205854				
DETAIL				12 JUL 67	206089				
CHECK	RAS	15 SEP 66	DRAW	IDI					
APPROV	FH	3 SEP 66							

5405965

INDEX PAGE
29 WIRING DIAGRAM SUPPLEMENT
MODELS A, B & C

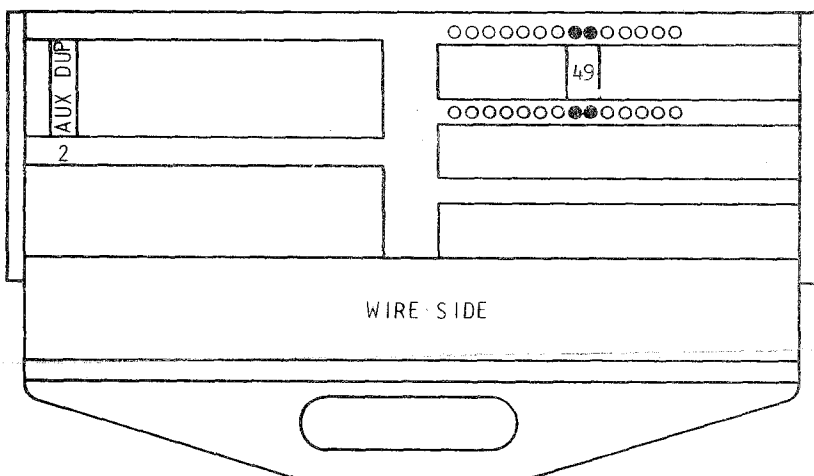
SHEET 1 OF 2

MASTER

NAME	SECTION
AUX DUP FEATURE	1, 2, 8

ADD

PART NO.	DESCRIPTION	FROM	TO
205330	BRASS JPR	49HA	49-1 N/O
196208	RELAY 49-4 POS	---	---
5406097	CABLE	---	GATE
5406064	CABLE	CD TRANS	GATE



DELETE

PART NO.	DESCRIPTION	FROM	TO
GATE	CABLE	*8 HA XII	4 HA XII
GATE	CABLE	4 PA XII	*7-2 N/O XII

* DENOTES WIRE ENDS TO BE REMOVED AND TAPED

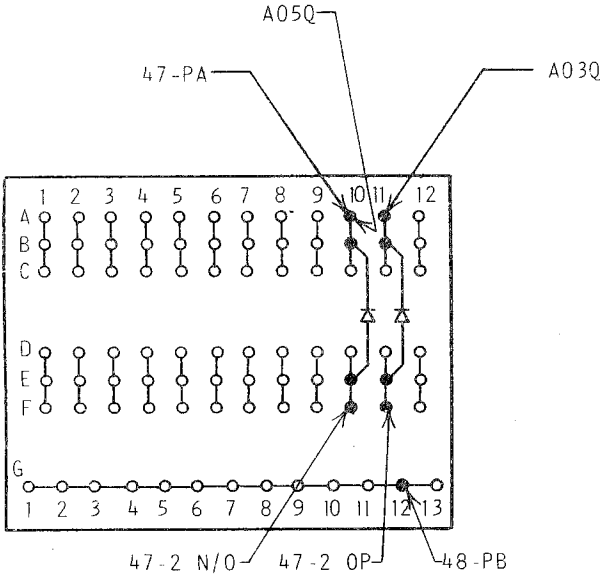
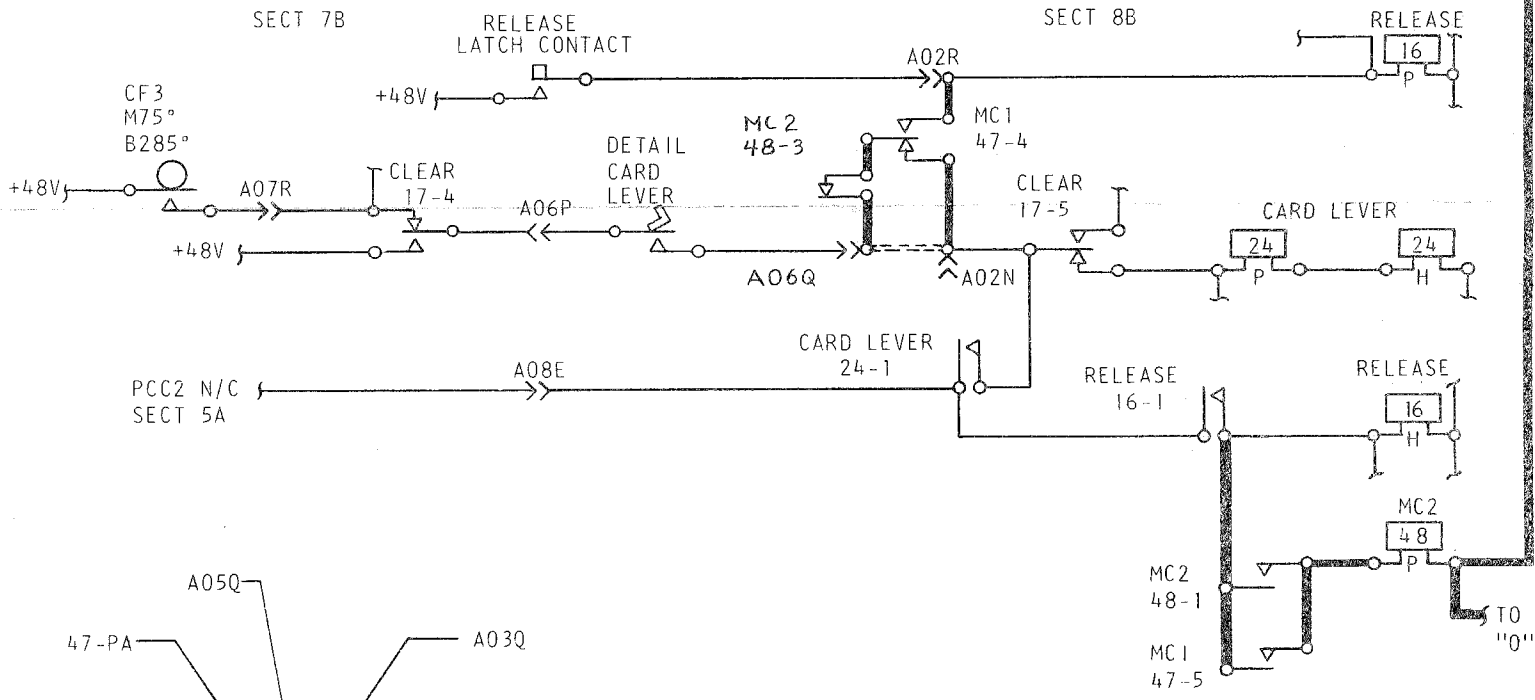
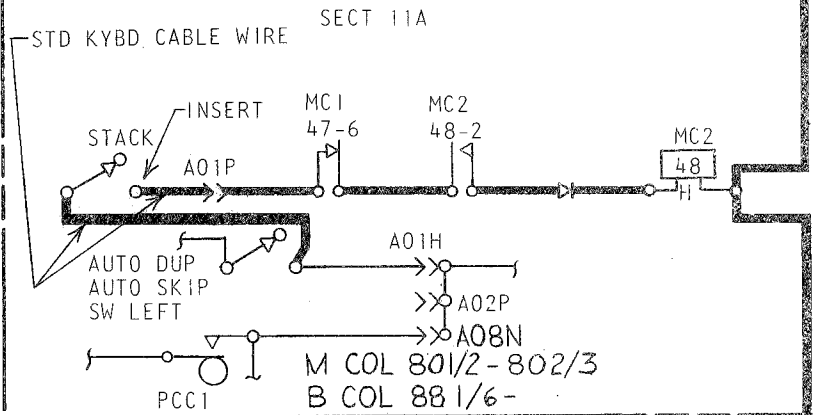
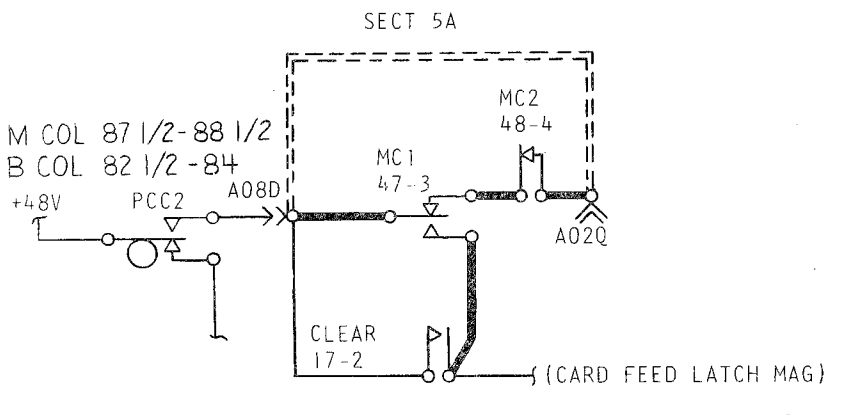
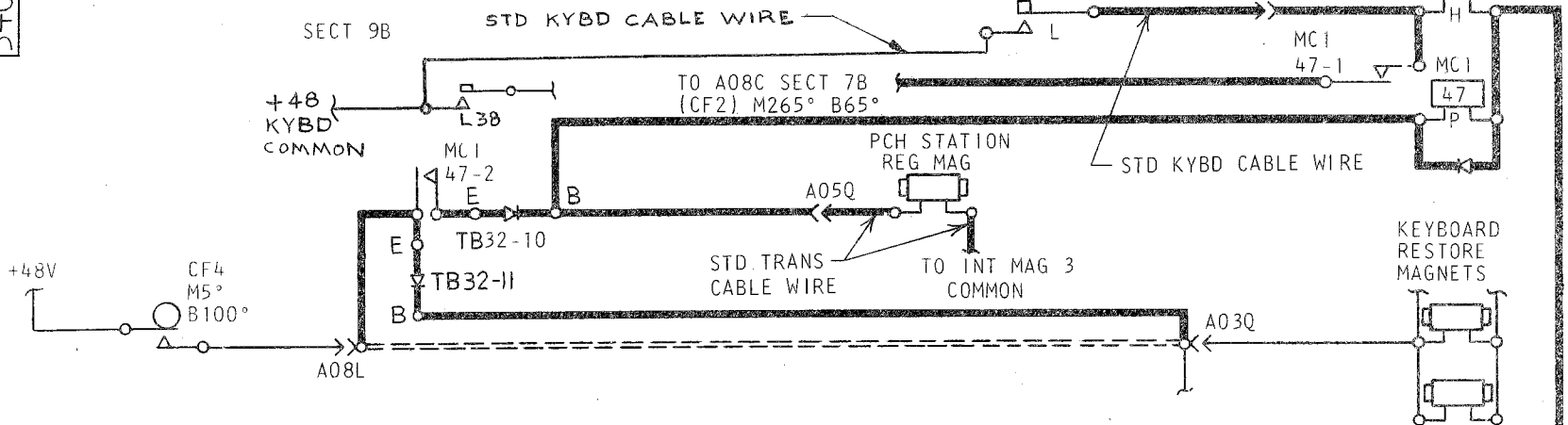
INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEMS DIAGRAM			19OCT66	205745 B			X PRINT TO ENG. SPEC. NO. 895291	5405965
DESIGN	AG	15SEP66	MODEL	14FEB67	205854				
DETAIL				12JUL67	206089				
CHECK	RAS	15SEP66	DRAW	IDI	16OCT66				
APPRO	FH	3SEP66	CHECK						

5405966

SHEET 2 OF 2

MASTER CARD INSERTION
MC1

MASTER



TERMINAL BLOCK 32
COMPONENT SIDE

— STANDARD WIRING
 - - - REMOVED WIRING
 - - - - - ADDED WIRING

NOTES
 XI STANDARD WIRES ARE SHOWN FOR REFERENCE ONLY. CONSULT MACHINE LOGIC DIAGRAMS FOR DETAIL WIRING
 XII REMOVE THIS LEAD AND TAPE END

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEMS DIAGRAM	19OCT66	205745 B			X PRINT TO ENG. SPEC. NO. 895291	5405966
DESIGN	AG 15SEP66 MODEL	14FEB67	205854				
DETAIL		12 JUL 67	206089				
CHECK	RAS 15SEP66 DRAW 19OCT66	15 JAN 69	920013				
APPRO	FH 35SEP66 CHECK						

5405966

INDEX PAGE
29 WIRING DIAGRAM SUPPLEMENT
MODELS A, B & C

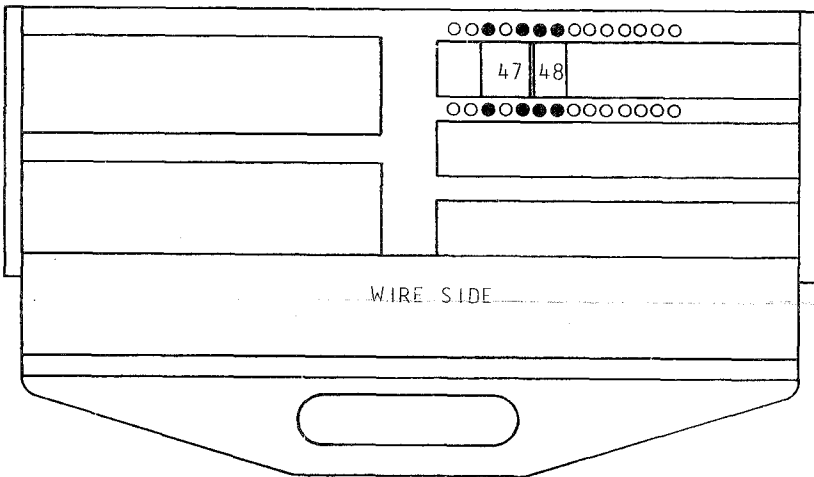
SHEET 1 OF 2

MASTEC

NAME	SECTION
MCI FEATURE	5, 7, 8, 9, 11

ADD

PART NO.	DESCRIPTION	FROM	TO
196198	RELAY 47-6 POS	-----	-----
196208	RELAY 48-4 POS	-----	-----
205330	BRASS JPR	47 HA	47-1 N/O
205331	BRASS JPR	47 HB	47 PB
205331	BRASS JPR	48 HB	48 PB
205329	BRASS JPR	48 PA	48-1 N/O
347820	DIODE	PLT-47 PB	CATH-47 PA
347820	DIODE	PLT-48-2 N/O	CATH-48 HA
347820	DIODE	PLT-32-10 E	CATH-32-10B
347820	DIODE	PLT-32-11 E	CATH-32-11B
5406087	CABLE	-----	GATE
	STD TRANS CABLE WIRE	REG MAG	INT 3 COM
	STD TRANS CABLE WIRE	A05Q	REG MAG
	STD SWITCH CABLE WIRE	ADAS N/O	MC SW/OP
	STD SWITCH CABLE WIRE	A01P	MC SW/NO
	STD KYBD CABLE WIRE	MC LATCH/NO	48 VOLTS
	STD KYBD CABLE WIRE	MC LATCH/OP	A02D



DELETE

PART NO.	DESCRIPTION	FROM	TO
---	CABLE	* A03Q XII	A08L XII
---	CABLE	* A02Q XII	A08D XII
---	CABLE	* A02N XII	A06Q XII

* DENOTES WIRE END TO BE REMOVED AND TAPED.

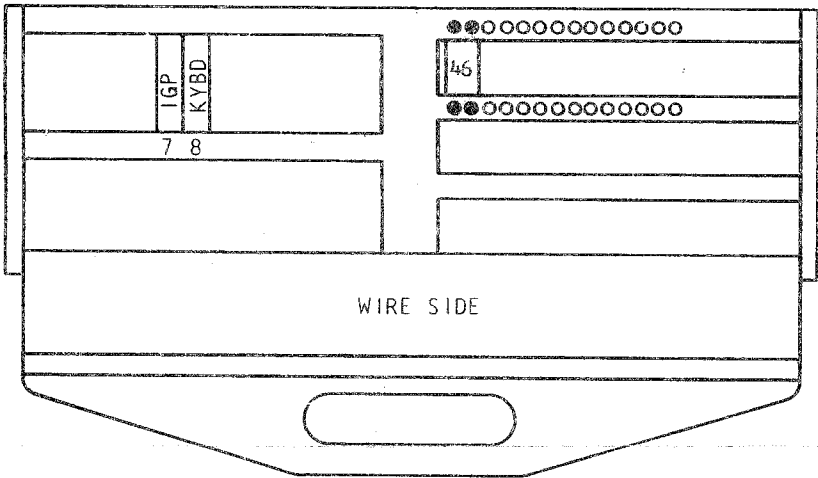
PRINT SUITABLE FOR EC MARKUP

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEMS DIAGRAM			19OCT66	205745 B			X PRINT TO ENG. SPEC. NO. 895291	5405966
DESIGN	AG	15SEP66	MODEL	14FEB67	205854				
DETAIL				12 JUL 67	206089				
CHECK	RAS	15SEP66	DRAW	15 JAN 69	920013				
APPRO	FH	35SEP66	CHECK						

5405967

MASTER

NAME	SECTION
IGP FEATURE	7, 8



ADD

PART NO.	DESCRIPTION	FROM	TO
196208	RELAY 46-4 POS		
205330	BRASS JPR	46 HA	46-1 N/O
205331	BRASS JPR	46 HB	46 PB
347820	DIODE	PLT-17-6 N/O	CATH-16 PA
5406358	CABLE		GATE
5406067	CABLE	KYBD	GATE
5406063	CABLE	CD TRANS	GATE
	TRANSPORT CABLE-STD	A05N	P6 OP

DELETE

PART NO.	DESCRIPTION	FROM	TO
GATE	JPR	*17 PA XII	17-3 OP
GATE	JPR	17-3 N/O	*17-6 N/O XII
GATE	JPR	*16 PA XII	*17-6 N/O XII
GATE	CABLE	A07R XII	*17-4 N/C XII
GATE	JPR	*17-4 N/C XII	17-6 OP

* DENOTES WIRE ENDS TO BE REMOVED AND TAPED

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHARGE NO.	DATE	CHARGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEMS DIAGRAM			19OCT66	205745 B			X PRINT TO ENG. SPEC. NO. 895291	5405967
DESIGN	AG	15SEP66	MODEL	14FEB67	205854				
DETAIL				12 JUL 67	206089				
CHECK	RAS	15SEP66	DRAW	1 OCT 69	920094				
APPRO	FH	15SEP66	CHECK						

5405967

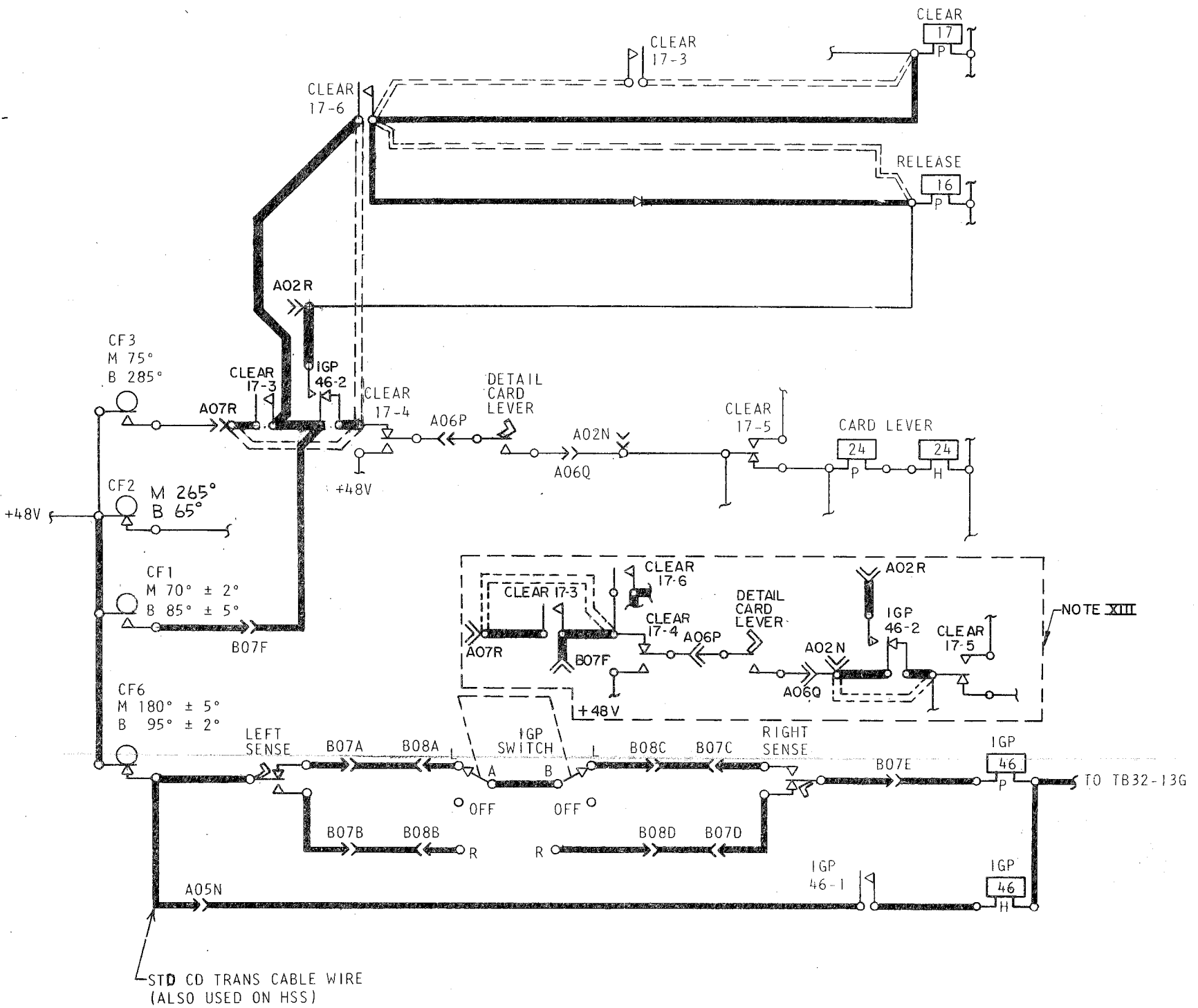
INTERSPERSED GANG PUNCH
IGP

SHEET 2 OF 2

SECT 7B

SECT 8B

MASTER



PART NAME	PART NO.
CAM CF-1	311384
CAM CF-6	315381
SWITCH IGP	382297
SWITCH RIGHT SENSE	5404396
SWITCH LEFT SENSE	5404296

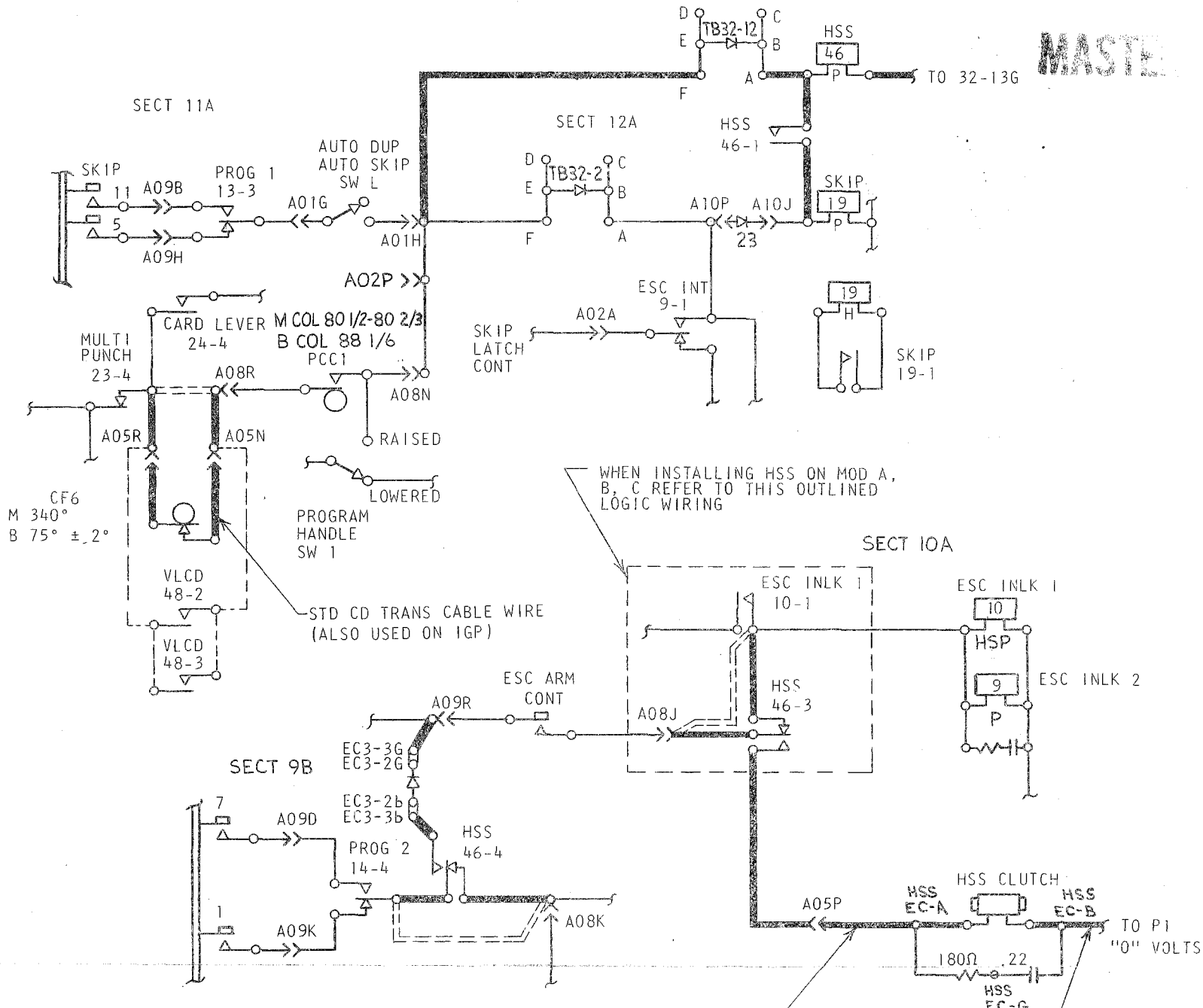
- STANDARD WIRING
- - - REMOVED WIRING
- ▬ ADDED WIRING

- NOTES
- XI STANDARD WIRES ARE SHOWN FOR REFERENCE ONLY. CONSULT MACHINE LOGIC DIAGRAMS FOR DETAIL WIRING
 - XII REMOVE THIS LEAD AND TAPE END
 - XIII WIRING BEFORE EC920094 OCT 1969

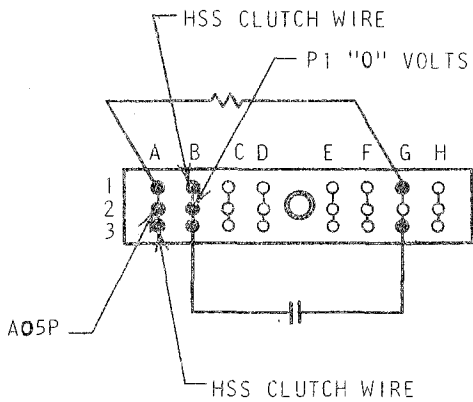
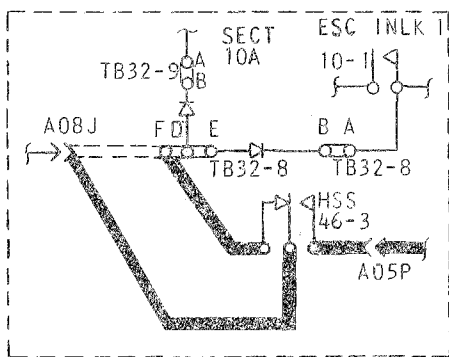
INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEMS DIAGRAM	19OCT66	205745 B			X PRINT TO ENG. SPEC. NO. 895291	5405967
DESIGN	AG 15SEP66 MODEL	14FEB67	205854				
DETAIL		12JUL 67	206089				
CHECK	RAS 15SEP66 DRAW	1 OCT 69	920094				
APPRO	FH 3SEP66 CHECK						

HIGH SPEED SKIP
HSS

MASTER



- STANDARD WIRING
- - - REMOVED WIRING
- ▬ ADDED WIRING
- - - ADDED WIRING ON MACH WITH BOTH HSS AND VLCD INSTALLED



EDGE CONNECTOR IS LOCATED ON HSS UNIT

NOTES

- XI STANDARD WIRES ARE SHOWN FOR REFERENCE ONLY. CONSULT MACHINE LOGIC DIAGRAMS FOR DETAIL WIRING
- XII REMOVE THIS LEAD AND TAPE END
- XIII CF 3 TIMING TO BE
M 90° ± 2°
B 300° ± 5°
- XIV FOR SELF CHECK ONLY

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEMS DIAGRAM	19 OCT 66	205745 B			X PRINT TO ENG. SPEC. NO. 895291	5405968
DESIGN	AG 15 SEP 66	14 FEB 67	205854				
DETAIL		12 JUL 67	206089				
CHECK	RAS 15 SEP 66	2 FEB 68	206295				
APPROV	FH	1 OCT 69	920094				

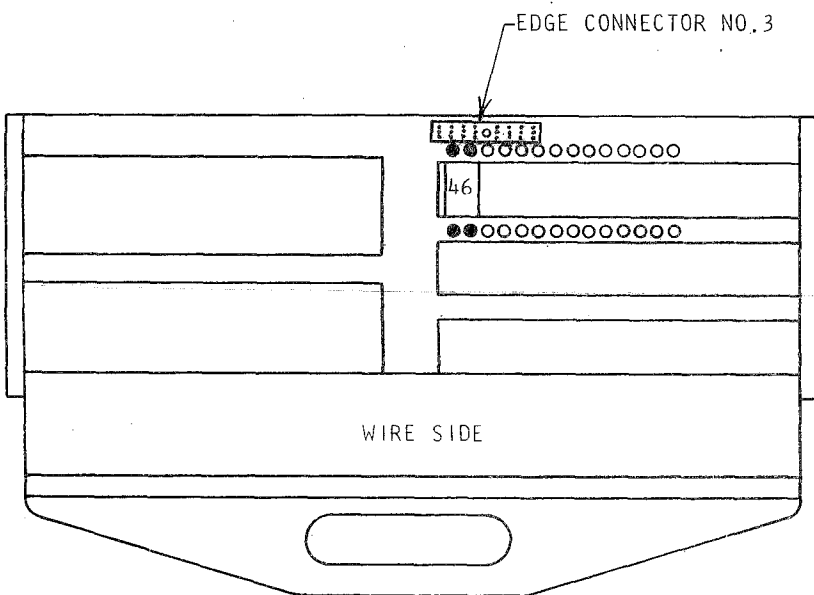
5405968

INDEX PAGE
29 WIRING DIAGRAM SUPPLEMENT
MODELS A, B & C

SHEET 1 OF 2

MASTER

NAME	SECTION
HSS FEATURE	9, 10, 11, 12
KYBD, VLCD AND CAM	P/N 5404109



ADD

PART NO.	DESCRIPTION	FROM	TO
196206	RELAY 46-4 POS		
205329	BRASS JPR	46 PA	46-1 N/O
5820454	RESISTOR 180Ω	EC-G	EC-A
5400890	CAPACITOR .22 UF	EC-G	EC-B
347820	DIODE	PLT-32-12E	CATH-32-12B
TRANSPORT	CABLE ASM	A05N	P6 OP
205331	BRASS JPR'S USED WITH HSS/VLCD	48-2 N/O	48-3 N/O
205331		48-2 OP	48-3 OP
5406353	CABLE		GATE
STD TRANS	CABLE WIRES	ECA	A05P
		ECB	P1 COM
129245	JUMPER	EC3-3b	46-4NO
347820	DIODE	PLT-EC3-2b	CATH-EC3-2G

ADD

PART NO.	DESCRIPTION	FROM	TO
5406353	CABLE	TB32-8F	46-3 N/C XIV

DELETE

PART NO.	DESCRIPTION	FROM	TO
GATE	CABLE	A08R XII	*23-4 N/C XII
GATE	CABLE	A08J XII	*10-1 N/O XII
GATE	CABLE	*A08K XII	14-4 OP XII

DELETE

PART NO.	DESCRIPTION	FROM	TO
GATE	CABLE	TB32-8F	A08J XIV

* DENOTES WIRE ENDS TO BE REMOVED AND TAPED

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	SYSTEMS DIAGRAM			19OCT66	205745 B			* PRINT TO ENG. SPEC. NO. 895291	
DESIGN	AG	15FPA	MODEL	14FEB67	205854				
DETAIL				12JUL67	206089				
CHECK	RAS	15FPA	DRAW	2FEB68	206295				
APPRO	FH	15FPA	CHECK	1 OCT69	92009 4				

5405968

5405969

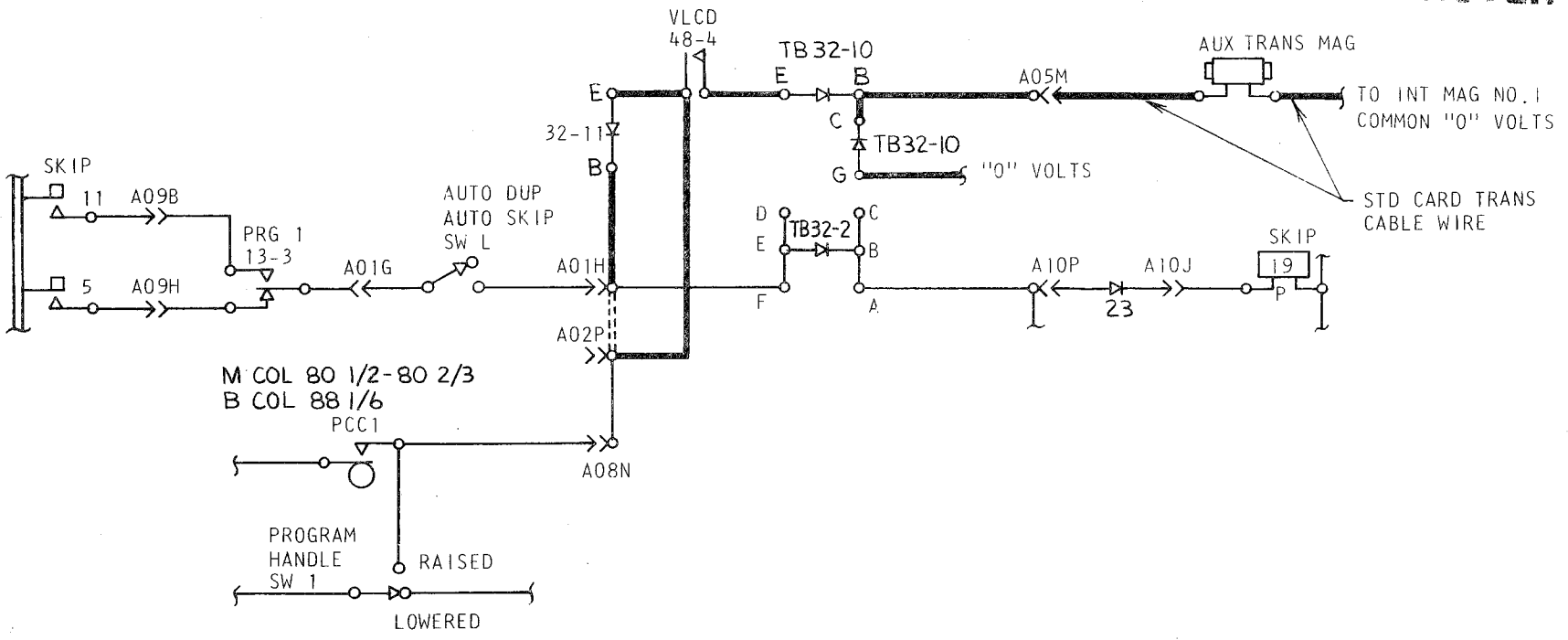
VARIABLE LENGTH CARD DEVICE
VLCD

SHEET 2 OF 2

SECT 11A

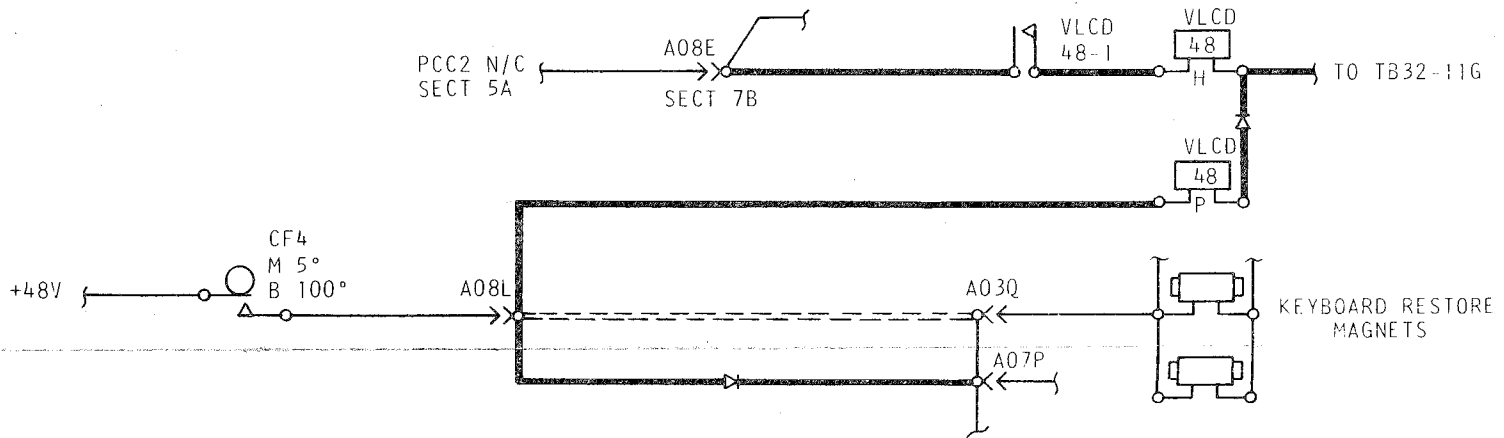
SECT 12A

MASTER



SECT 9B

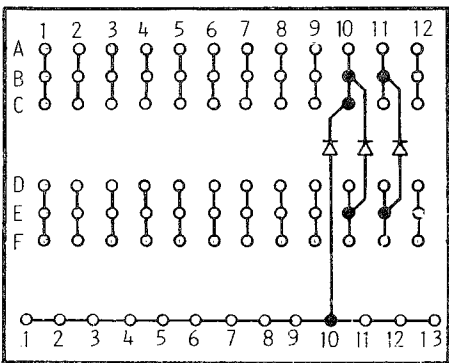
SECT 10B



- STANDARD WIRING
- REMOVED WIRING
- ADDED WIRING

NOTES

- XI STANDARD WIRES ARE SHOWN FOR REFERENCE ONLY. CONSULT MACHINE LOGIC DIAGRAMS FOR DETAIL WIRING.
- XII REMOVE THIS LEAD AND TAPE END



TERMINAL BLOCK 32
COMPONENT SIDE

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME				19OCT66	205745 B			X PRINT TO ENG. SPEC. NO. 895291	5405969
DESIGN				14FEB67	205854				
DETAIL				12JUL67	206089				
CHECK									
APPRO									

5405969

INDEX PAGE
29 WIRING DIAGRAM SUPPLEMENT
MODELS A, B & C

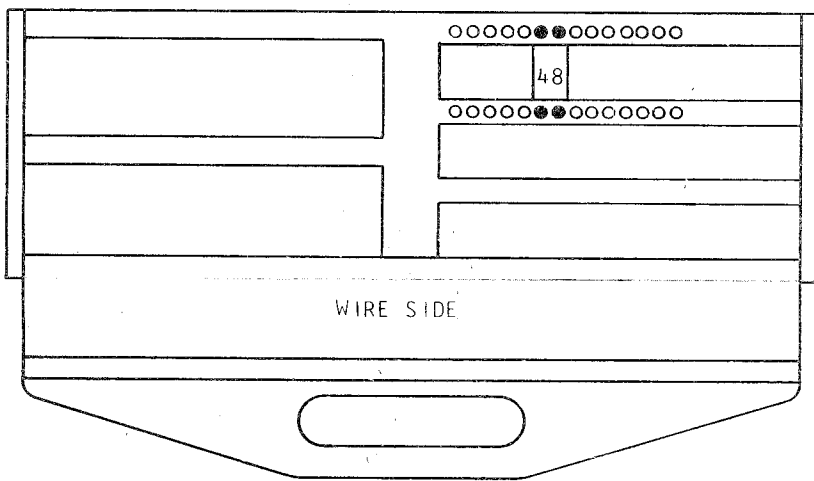
SHEET 1 OF 2

ADD

NAME	SECTION
VLCD FEATURE	9, 10, 11, 12
KYBD, VLCD AND CAM	P/N 5404109

ADD

PART NO.	DESCRIPTION	FROM	TO
205331	BRASS JPR	48 HA	48-1 N/O
347820	DIODE	PLT-32-11 E	CATH-32-11B
347820	DIODE	PLT-32-10 E	CATH-32-10B
347820	DIODE	PLT-32-10 G	CATH-32-10C
347820	DIODE	PLT-48PB	CATH-48HB
5404119	DIODE-SLIP ON	PLT-A08L	CATH-A07P
196208	RELAY 48-4 POS	---	---
5406363	CABLE	---	GATE
	STD CARD TRANS	A05M	AUX MAG
	CABLE WTRES	AUX MAG	INT MAG



DELETE

PART NO.	DESCRIPTION	FROM	TO
GATE	CABLE	A03Q	* A08L XII
GATE	CABLE	* A01H XII	* A02P XII

* DENOTES WIRE END(S) TO BE REMOVED AND TAPED

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NA	SYSTEMS DIAGRAM			19OCT66	205745 B			X PRINT TO ENG. SPEC. NO. 895291	
DESIGN	AG	15SEP66	MODEL	14FEB67	205854				
DETAIL				12 JUL 67	206089				
CHECK	RAS	15SEP66	DRAW	101	18OCT66				
APPRO	FH	3SEP66	CHECK						

5405969

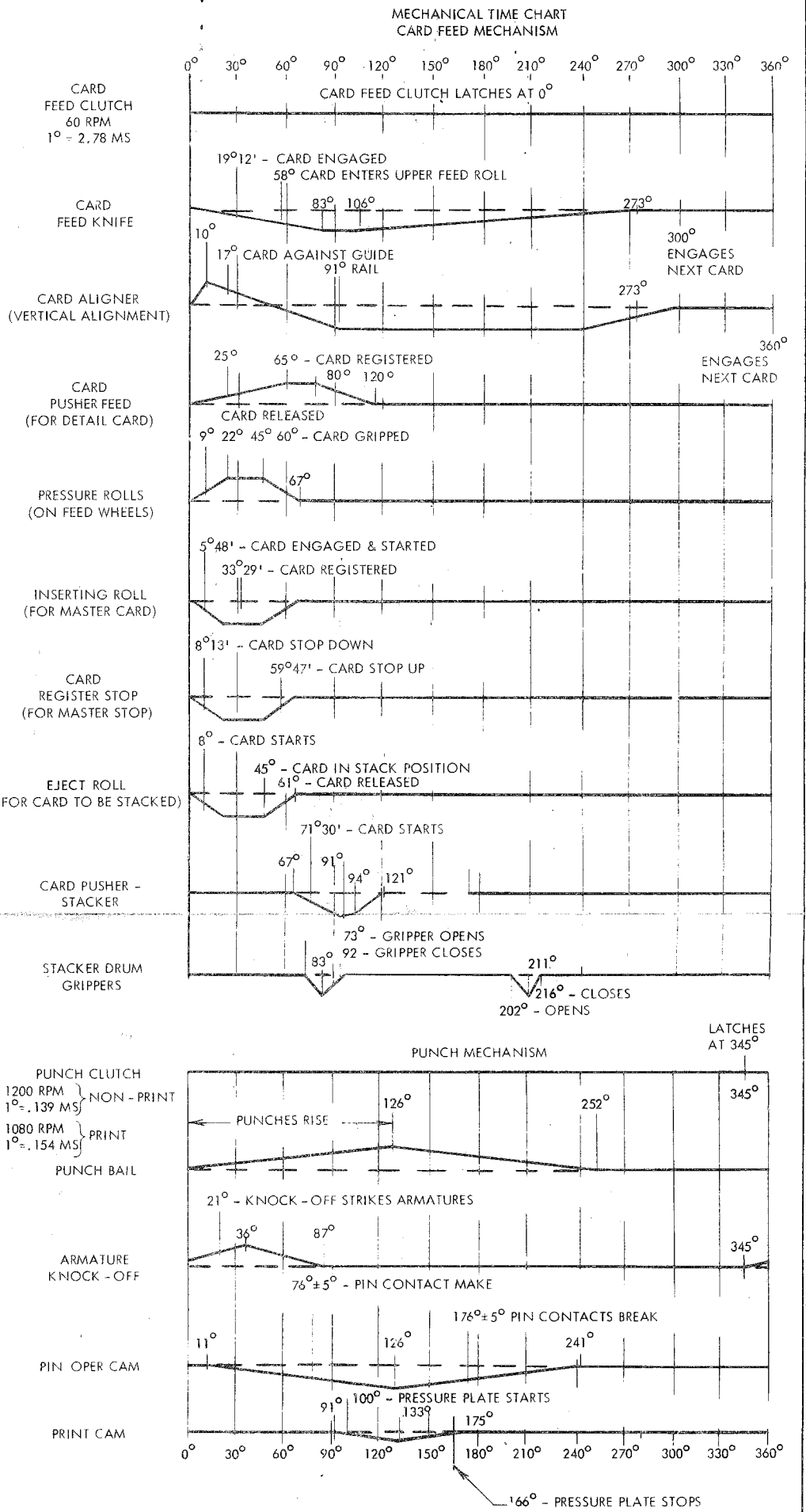
5404109

KEYBOARD VLCD & CAM REFERENCE

0229.10.0

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	14-8-6		
5	A		12-1		15-3			
6	@	#	8-4	8-3	9-7	8-2		
7	Z		0-9		1-11			
8	W	-	0-5	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	!	0-4	!	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	!	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	&	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



INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME SYSTEMS DIAGRAM		7-13-65	205333			X PRINT TO ENG. SPEC. NO. 895291	02.29.10.0
DESIGN WT 52665 MODEL		25 MAY 66	205639				
CHECK LF 52665	DRAW GT 4-19-65						
APPRO RLJ 52665	CHECK DJR 4-21-65						