

603000H

INDEX
88 WIRING DIAGRAM
MACHINE SERIAL NO.

SHEET 1 OF 2

SECTION NO.	NAME	PART NUMBER	ENGINEERING CHANGE NUMBER
1	POWER SUPPLY	603606	802662J
2	FUSE AND VOLTAGE TERMINALS	603607	805087
3	FUSE VALUES	603608	802878
4	RUN	603609	802662
5	CARD LEVER	603610	802662L
6	CONTROL LIGHTS	603611	802662
7	HOPPER AND POCKET CONTROL	603612	802662
8	CONTROL HOLD COILS	603613	807508
9	CONTROL STOP	603614	802662
10	BLANK COLUMN CONTROL AND COMPARE INTERLOCK	603615	802662K
11	VALIDITY CHECK	603616	802662
12	CLUTCH	603617	802662
13	READ IN	603618	800945U
14	CONTROL HUBS	603619	800945U
15	BLANK COLUMN TEST	603620	802662
16	READ BRUSHES	603621	801831A
17	CODE CAMS	603622	800945U
18	PRIMARY COMPARE A PICK	603623	800945U
19	PRIMARY COMPARE A POINT TO POINT	603624	802878
20	PRIMARY COMPARE B PICK	603625	802662
21	PRIMARY COMPARE B POINT TO POINT	603626	802878
22	SECONDARY COMPARE A PICK	603627	800945U
23	SECONDARY COMPARE A POINT TO POINT	603628	802878
24	SECONDARY COMPARE B PICK	603629	802878
25	SECONDARY COMPARE B POINT TO POINT	603630	802878
26	COMPARE HOLD	603631	800945U
27	PRIMARY COMPARE LIGHTS	603632	800945U
28	SECONDARY COMPARE LIGHTS	603633	800945U
29	SEQUENCE PICK	603634	805752A
30	PRIMARY SEQUENCE POINT TO POINT	603635	800945U
31	SECONDARY SEQUENCE POINT TO POINT	603636	805752A
32	SEQUENCE HOLD	603637	801831B
33	SEQUENCE LIGHTS	603638	801831E
34	10 POS - SECONDARY SEQUENCE ANSWER	603639	805087
35	10 POS - PRIMARY SEQUENCE ANSWER	603640	805087
36	10 POS - COMPARE A ANSWER	603641	805087
37	10 POS - COMPARE B ANSWER	603642	805087
34	16 POS - SECONDARY SEQUENCE ANSWER	603643	805087
35	16 POS - PRIMARY SEQUENCE ANSWER	603644	805087
36	16 POS - COMPARE A ANSWER	603645	805087
37	16 POS - COMPARE B ANSWER	603646	805087
34	22 POS - SECONDARY SEQUENCE ANSWER	603647	805087
35	22 POS - PRIMARY SEQUENCE ANSWER	603648	805087
36	22 POS - COMPARE A ANSWER	603649	805087
36A	22 POS - COMPARE A ANSWER	603650	805087
37	22 POS - COMPARE B ANSWER	603651	805087
37A	22 POS - COMPARE B ANSWER	603652	805087
38	SELECTORS	603653	800945U
39	DYNAMIC TIMER POWER SUPPLY	603654	807508
40	DYNAMIC TIMER POWER SUPPLY	603655	807508
41	COMPONENT LOCATIONS	603656	802662
42	CONTROL HUB LOCATIONS	603657	800945U
43	SELECTOR TX CARD	603658	802878
44	COMPARE, SEQUENCE, ANSWER AND DPBC TX CARD	603659	802878
45	TRANSISTOR GATE LAYOUT	603660	802878
46	RELAY DESCRIPTION	603661	807508

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	WIRING DIAGRAM 88			SEE INDEX CARD		3-24-64	807508	X PRINT TO ENG. SPEC. NO. 895291	603000H
DESIGN	SJD	5-6-60	MODEL	88	9-20-62	802662K			
DETAIL	GJD	5-6-60			9-27-62	802662L			
CHECK	HCK	8-18-60	DRAW	DB	6-7-60	805087			
APPRO	HCK	8-18-60	CHECK	PW	6-8-60	8-14-63	805752A		

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88 WIRING DIAGRAM
MACHINE SERIAL NO.

SHEET 2 OF 2

SECTION NO.	NAME	PART NUMBER	ENGINEERING CHANGE NUMBER
47	RELAY LOCATION	603662	807508
48	RELAY LOCATION	603663	807508
49	RELAY LOCATION	603664	807508
50	RELAY LOCATION	603665	807508
51	C CAM TIMING	603666	802878
52	C CAM TIMING	603667	802662
53	C CAM TIMING	603668	805087
54	P AND S CAM TIMING	603669	802878
55	MECHANICAL TIME CHART	603670	802662 J

FEATURE WIRING DIAGRAMS AND INSTRUCTIONS ARE PRINTED ON STANDARD SIZE LOOSE-LEAF SHEETS FOR INSERTION IN THIS WIRING DIAGRAM BINDER. THIS PROVIDES ONE COMPLETE BOOK OF DIAGRAMS AND INSTRUCTIONS TO FIT EACH INDIVIDUAL MACHINE. IN THE CASE OF FACTORY-INSTALLED FEATURES, THE FEATURE DIAGRAM AND INSTRUCTIONS ARE PACKAGED SEPARATELY FROM THE MAIN MACHINE WIRING DIAGRAM. UPON RECEIPT OF A MACHINE OR AFTER INSTALLING A FEATURE IN THE FIELD, THESE PAGES SHOULD BE INSERTED IN THE APPROPRIATE PLACE IN THE DIAGRAM BINDER.

THE FEATURE PAGES ARE YELLOW AND HAVE A SECTION NUMBER AND/OR LETTER IN THE UPPER RIGHT-HAND CORNER.

A LETTER ALONE INDICATES AN ADDED SECTION.

A NUMBER ALONE INDICATES A REPLACEMENT SECTION FOR THE CORRESPONDING STANDARD SECTION. A STANDARD PAGE MAY IN SOME CASES BE REPLACED BY MORE THAN ONE YELLOW PAGE HAVING THE SAME NUMBER.

A NUMBER FOLLOWED BY A LETTER INDICATES AN ADDED SECTION TO BE PLACED BEHIND ITS CORRESPONDING STANDARD NUMBERED SECTION.

YELLOW SECTIONS MAY SHOW WIRES CONNECTIONG TO TERMINATING POINTS ON STANDARD SECTIONS.

RETAIN ANY REMOVED STANDARD PAGES FOR FUTURE REFERENCE BY PLACING THEM IN THE BACK OF THE BOOK.

EACH PAGE CONTAINS A NUMBER IN THE UPPER LEFT-HAND AND LOWER RIGHT-HAND CORNERS. THIS IS THE PART NUMBER OF THAT SECTION. THERE IS ALSO A BLOCK IN THE LOWER CENTER SHOWING THE ENGINEERING LEVEL OF THE SECTION. THE LAST ENGINEERING CHANGE NUMBER INDICATES THE LEVEL TO WHICH THAT SECTION IS DRAWN.

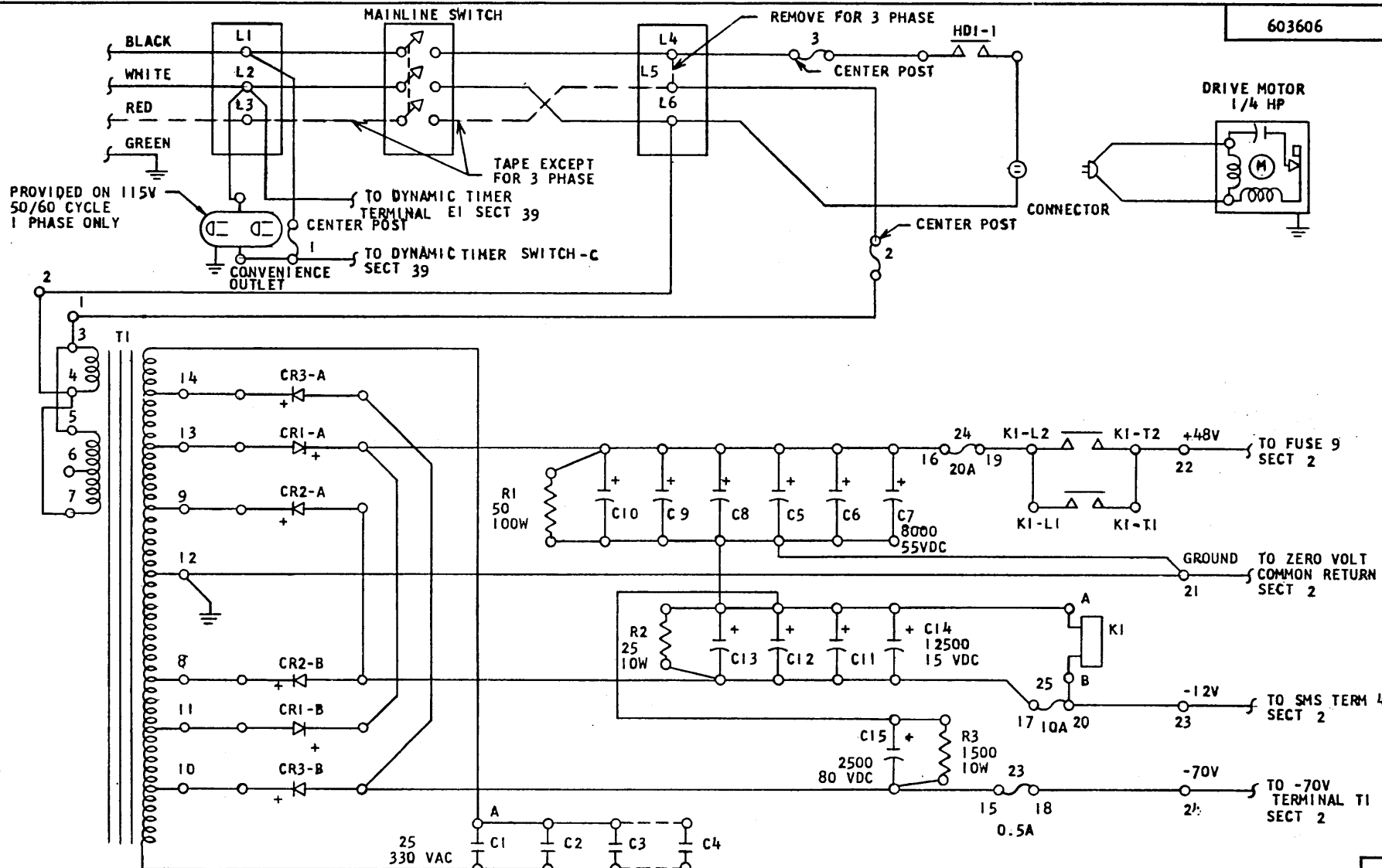
BOTH MAIN AND SPECIAL FEATURE DIAGRAMS HAVE AN INDEX PAGE AT THE FRONT SHOWING THE SECTION NAMES, PART NUMBERS, AND CHANGE LEVEL OF EACH PAGE. THE NUMBER ON THE UPPER LEFT-HAND AND LOWER RIGHT-HAND CORNERS OF THE INDEX PAGE IS THE PART NUMBER OF THE COMPLETE MAIN OR FEATURE DIAGRAM. INDIVIDUAL SECTIONS (PAGE-) SHOULD NOT BE ORDERED, WHENEVER ONE OR MORE SECTIONS REQUIRE REPLACEMENT. THE COMPLETE DIAGRAM SHOULD BE ORDERED. REPLACEMENT DIAGRAMS SHOULD BE ORDERED FROM THE MES ORDER DEPARTMENT AT THE PLANT OF MANUFACTURE STATING MACHINE SERIAL NUMBER, INDEX NUMBER, AND INDEX SUFFIX LETTER IF ANY.

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME WIRING DIAGRAM 88				SEE INDEX CARD		3-24-64	807508	X PRINT O ENG. SPEC. NO. 895291	
DESIGN	5-6-60	MODEL	88	9-20-62	802662K				
DETAIL	5-6-60			9-27-62	802662L				
CHECK	8-18-60	DRAW	DB 6-7-60	4-23-63	805087				
APPRO	8-18-60	CHECK	PW 6-8-60	8-14-63	805752A				

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603606

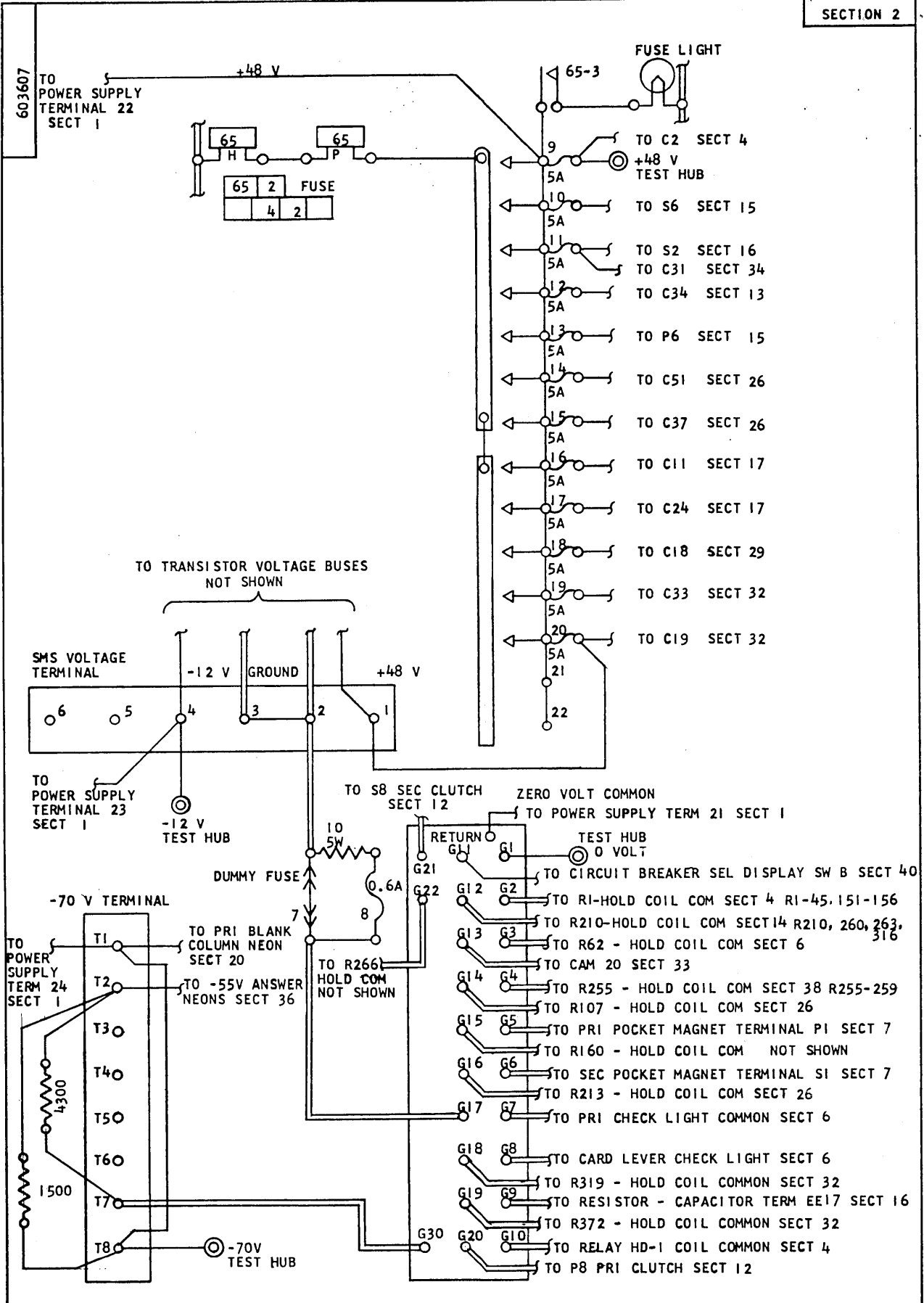


PRIMARY T1 CONNECTIONS

INPUT VOLTAGE	INPUT	JUMPER
115	3-4	3 TO 5, 4 TO 7
208	3-6	4 TO 5
230	3-7	4 TO 5

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE X PRINT TO ENR. SPEC. NO. 895291	DEVELOPMENT NO. 603606
NAME	WIRING DIAGRAM 88	8-11-60	800945U				
DESIGN	5-6-60	8-7-62	802662J				
DETAIL	5-6-60						
CHECK	8-18-60						
APPRO	8-18-60						

SECTION 1



INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	WIRING DIAGRAM 88	8-11-60	800945U			X PRINT TO ENG. SPEC. NO. 895291	
DESIGN	5-6-60	12-28-61	802878				
DETAIL	5-6-60	4-23-63	805087				
CHECK	8-18-60						
APPRO	8-8-60						603607

603608

ELECTRICAL ENERGY			LONG TIME LAG FUSE NUMBER 1		LONG TIME LAG FUSE NUMBER 2		LONG TIME LAG FUSE NUMBER 3	
VOLTS	CYCLES	PHASE	PART NO	RATING	PART NO	RATING	PART NO	RATING
115	60	1	107664	3.2	107670	15	107667	6.25
115	50	1	107664	3.2	107670	15	107668	8
115	50	3	107664	3.2	107670	15	107668	8
208	60	1	107664	3.2	107668	8	107664	3.2
208	50	1	107664	3.2	107668	8	107664	3.2
208	60	3	107664	3.2	107668	8	107664	3.2
208	50	3	107664	3.2	107668	8	107664	3.2
230	60	1	107664	3.2	107668	8	107664	3.2
230	50	1	107664	3.2	107668	8	107664	3.2
230	60	3	107664	3.2	107668	8	107664	3.2
230	50	3	107664	3.2	107668	8	107664	3.2

TRANSISTOR GATE FUSES

FUSE NO	PART NO	RATING
7	9022	DUMMY
8	111263	0.6

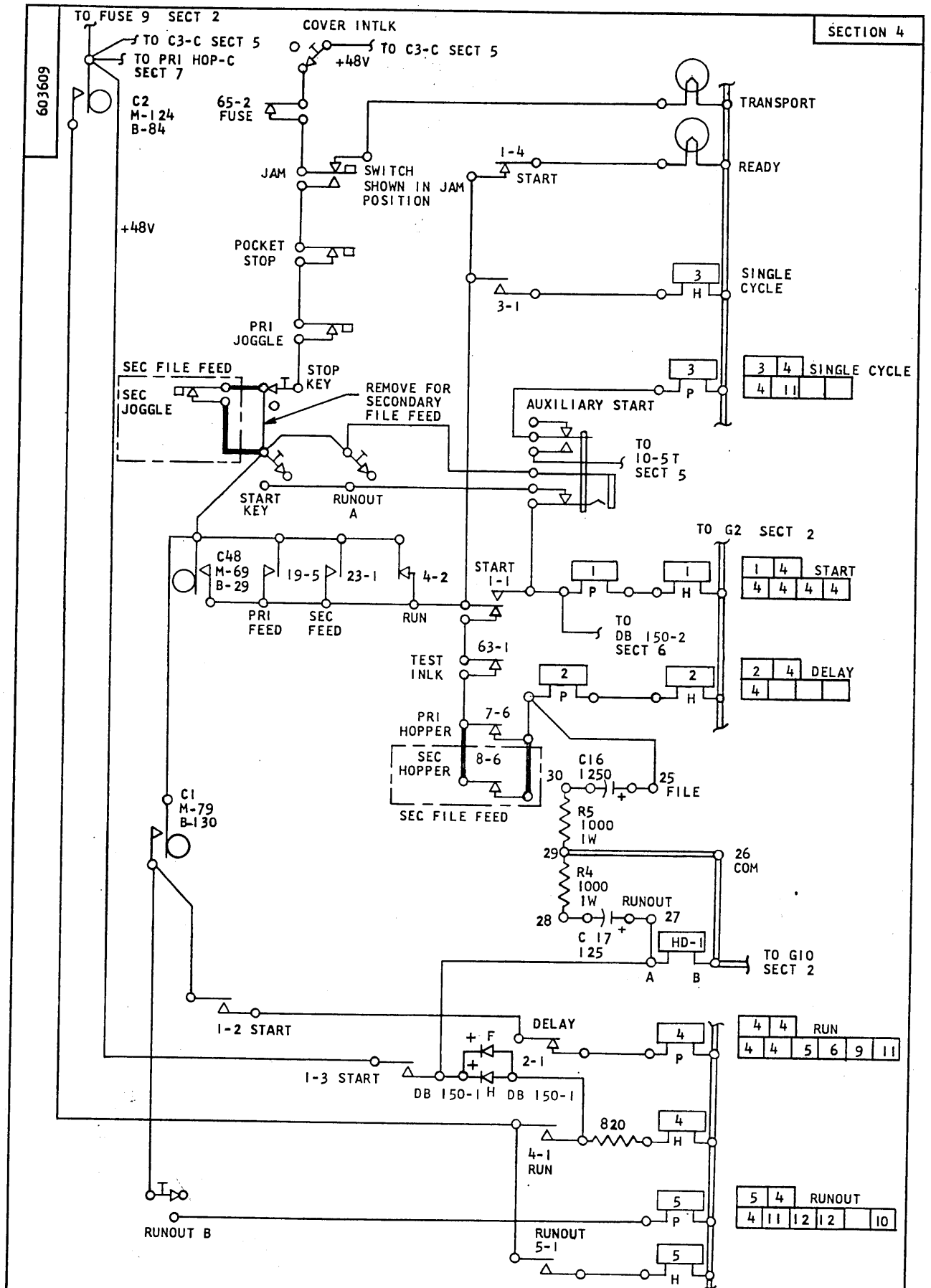
+48V SIGNAL FUSES

FUSE NO	POSITIONS OF COLLATION					
	10 POSITIONS		16 POSITIONS		22 POSITIONS	
	PART NO	RATING	PART NO	RATING	PART NO	RATING
9	104909	5	104909	5	104909	5
10	104909	5	104909	5	104909	5
11	104909	5	104909	5	104909	5
12	104909	5	104909	5	104909	5
13	104909	5	104909	5	104909	5
14	104909	5	104909	5	104909	5
15	104909	5	104909	5	104909	5
16	104909	5	104909	5	104909	5
17	104909	5	104909	5	104909	5
18	104909	5	104909	5	104909	5
19	104909	5	104909	5	104909	5
20	104909	5	104909	5	104909	5
21	104909	5	104909	5	104909	5
22	104909	5	104909	5	104909	5

POWER SUPPLY FUSES

FUSE NO	PART NO	RATING
23	334828	0.5
24	603256	20.0
25	509780	10.0

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	WIRING DIAGRAM 88			8-11-60	800945U			X PRINT TO ENG. SPEC. NO. 895291	
DESIGN	<i>SPH</i>	56-60	MODEL	12-28-61	802878				
DETAIL	<i>SPH</i>	56-60							
CHECK	<i>HEK</i>	8-18-60	DRAW	DMB	6-7-60				
APPRO	<i>HEK</i>	8-18-60	CHECK	PWW	6-8-60				603608

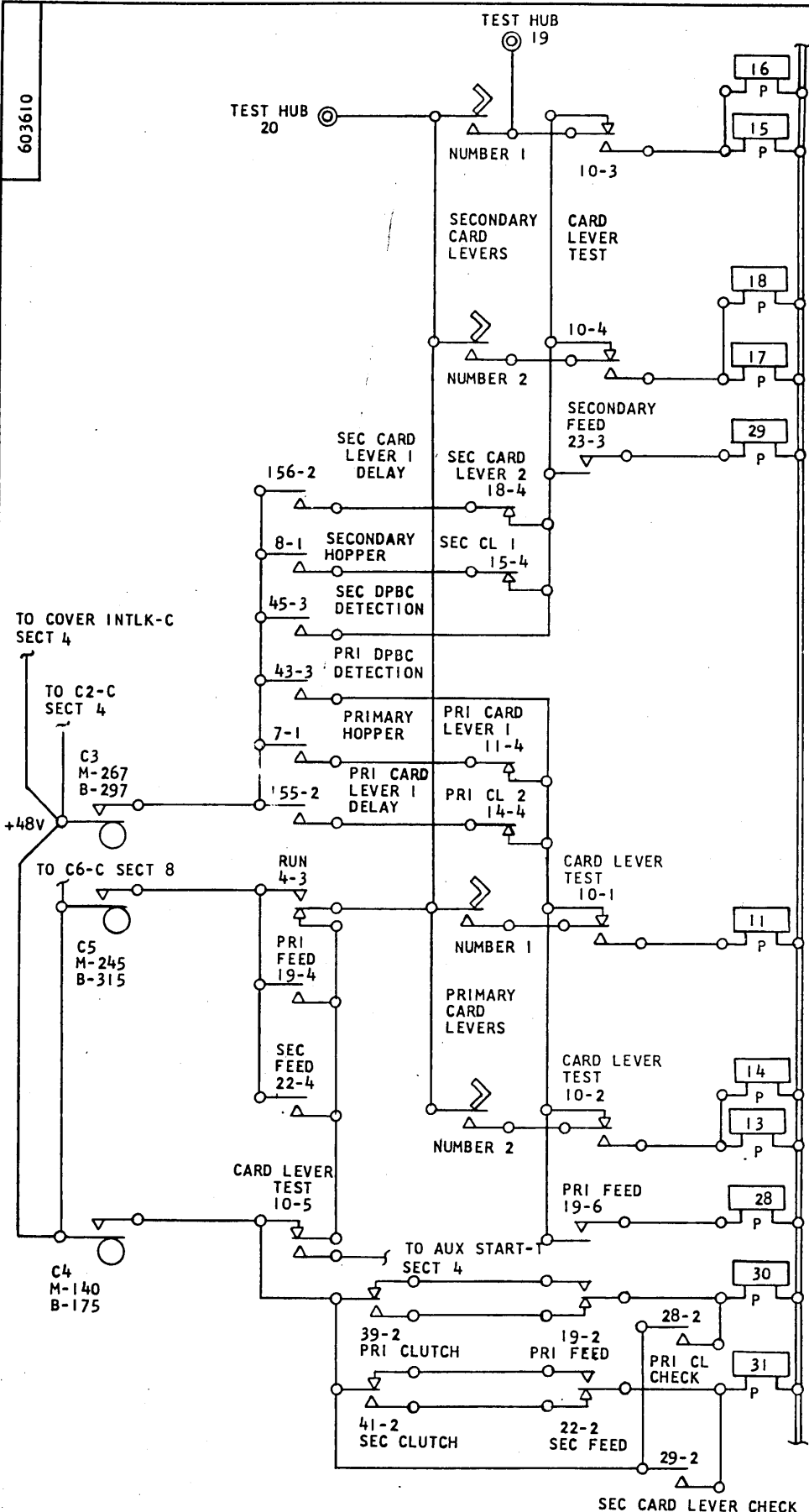


INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE X PRINT TO ENG. SPEC. NO. 895291	DEVELOPMENT NO.	SECTION 4
NAME WIRING DIAGRAM 88		8-11-60	800945U					
DESIGN	5-6-60	MODEL	88	5-21-62	802662			
DETAIL	5-6-60							
CHECK	8-18-60	DRAW	DB 6-7-60					
APPRO	8-18-60	CHECK	PW 6-8-60					
							603609	

E-989888-1000

WHITE 130

SECTION 5

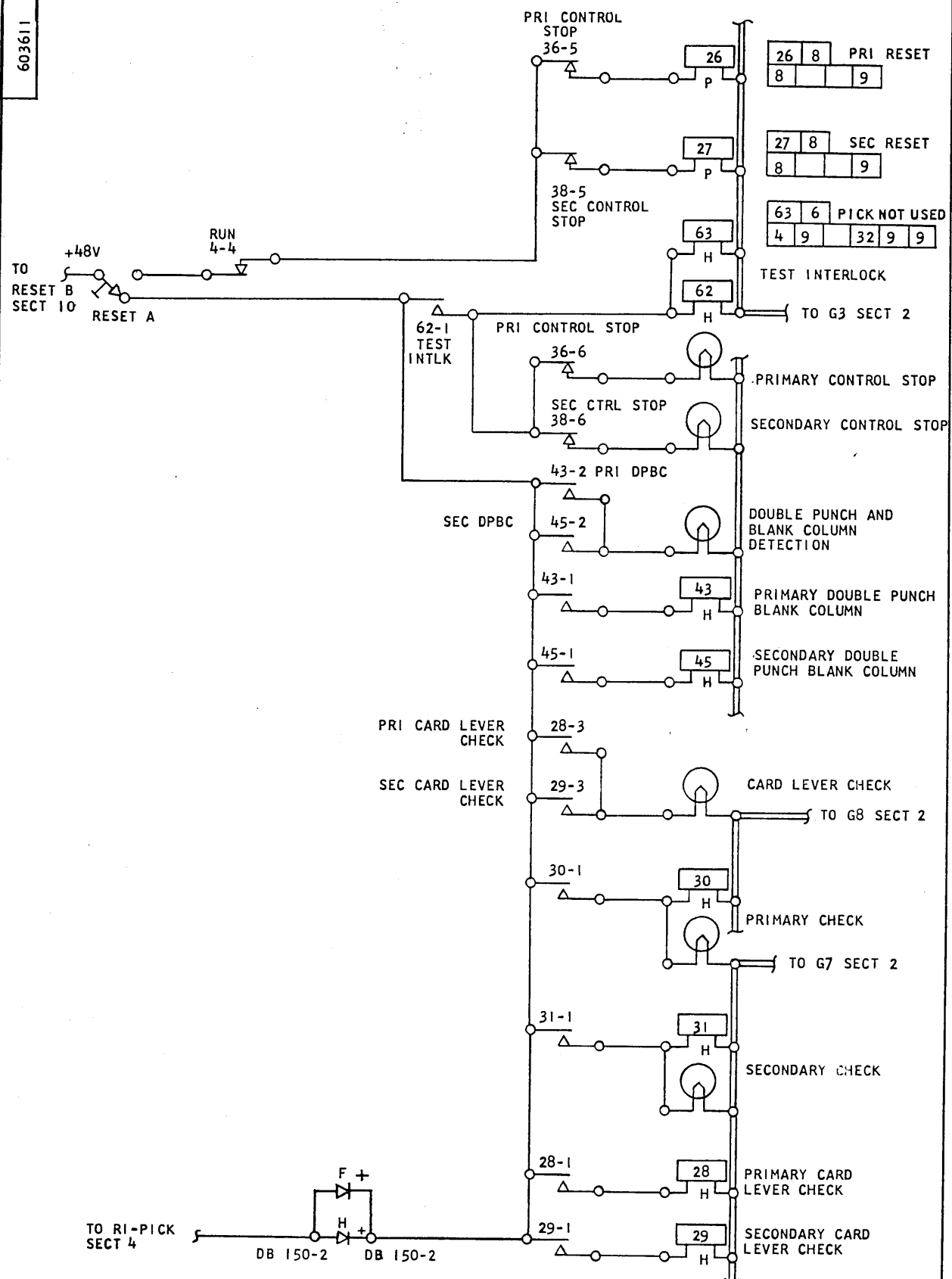


16	8	SEC CL #1			
12	7	29			
15	8	SEC CL #1			
8	16	11	5		
18	8	SEC CL #2			
12	10	5			
17	8	SEC CL #2			
8	16	11	7		
29	6	SEC CL CHECK			
6	5	6			
11	8	PRI CL #1			
8	16	11	5	12	7
14	8	PRI CL #2			
12	10	5			
13	8	PRI CL #2			
8	16	11	7		
28	6	PRI CL CHECK			
6	5	6			
30	6	PRI CHECK			
6	11	12	7		
31	6	SEC CHECK			
6	11	12	7		

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME				8-11-60	800945U			X PRINT TO ENG. SPEC. NO. 895291	
DESIGN				5-6-60	802662				
DETAIL				5-6-60	802662L				
CHECK				8-18-60					
DRAW				DMB	6-7-60				
APPRO				8-18-60					
CHECK				PWW	6-8-60				603610

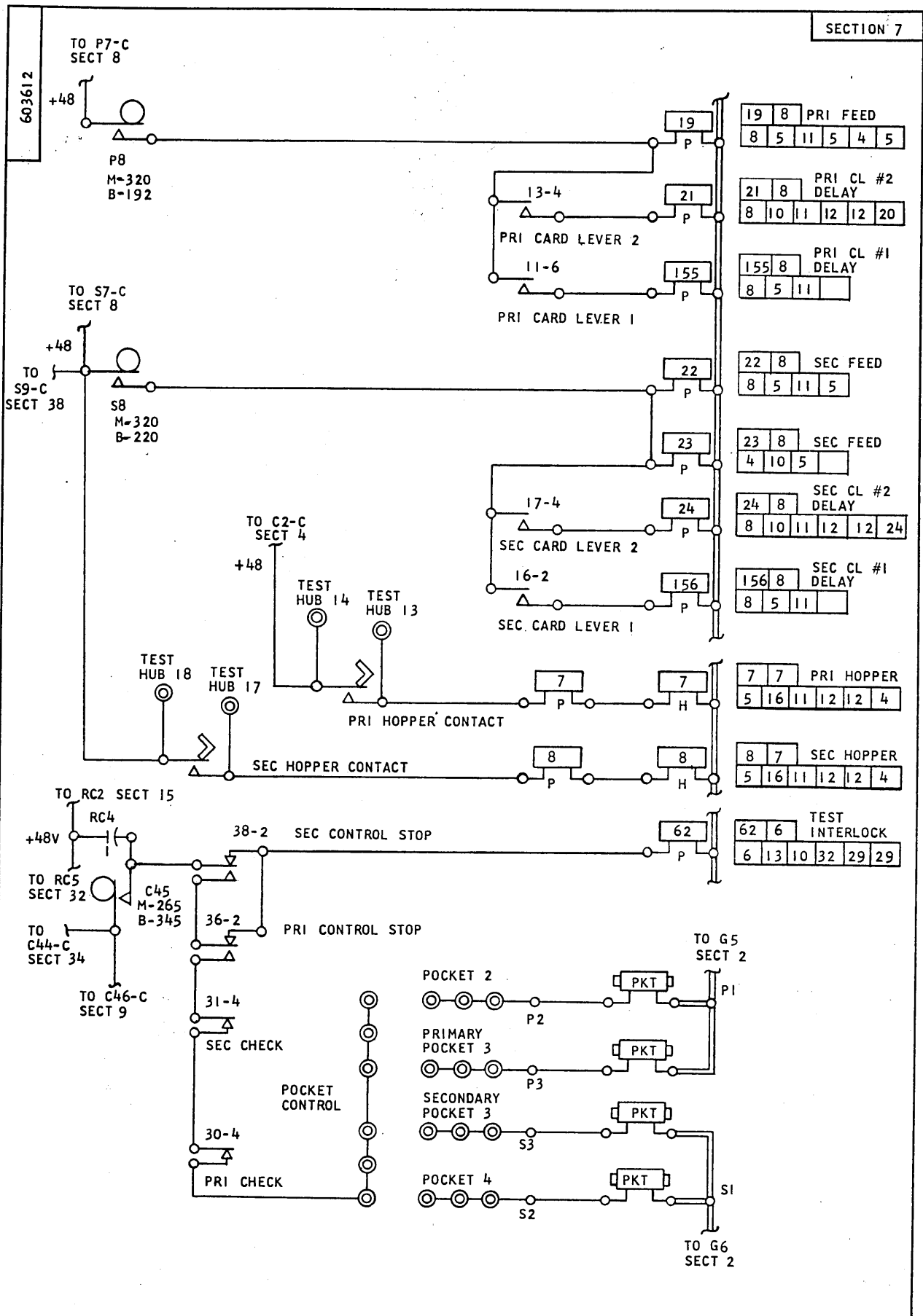
SECTION 5

603611



26	8	PRI RESET
8		9
27	8	SEC RESET
8		9
63	6	PICK NOT USED
4	9	32 9 9

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE X PRINT TO ENG. SPEC. NO. 895291	DEVELOPMENT NO.
NAME	WIRING DIAGRAM 88			8-11-60	800945U				
DESIGN	5-6-60	MODEL	88	11-17-60	801831B				
DETAIL	5-6-60			5-21-62	802662				
CHECK	8-18-60	DRAW	DB	6-7-60					
APPRO	8-18-60	CHECK	PW	6-8-60					



19	8	PRI FEED			
8	5	11	5	4	5
21	8	PRI CL #2			
8	10	11	12	12	20
155	8	PRI CL #1			
8	5	11			
22	8	SEC FEED			
8	5	11	5		
23	8	SEC FEED			
4	10	5			
24	8	SEC CL #2			
8	10	11	12	12	24
156	8	SEC CL #1			
8	5	11			
7	7	PRI HOPPER			
5	16	11	12	12	4
8	7	SEC HOPPER			
5	16	11	12	12	4
62	6	TEST INTERLOCK			
6	13	10	32	29	29

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE X PRINT TO ENG. SPEC. NO. 895291	DEVELOPMENT NO.
NAME WIRING DIAGRAM 88		8-11-60	800945U				
DESIGN	5-6-60	MODEL	88	11-17-60	801831B		
DETAIL	5-6-60			5-21-62	802662		
CHECK	8-18-60	DRAW	DMB 6-7-60				
APPRO	8-18-60	CHECK	PWW 6-8-60				
							603612

603613

TO C5-C SECT 5

+48V

TO P6-C SECT 15

+48V

TO P8-C SECT 7

TO S6-C SECT 15

+48V

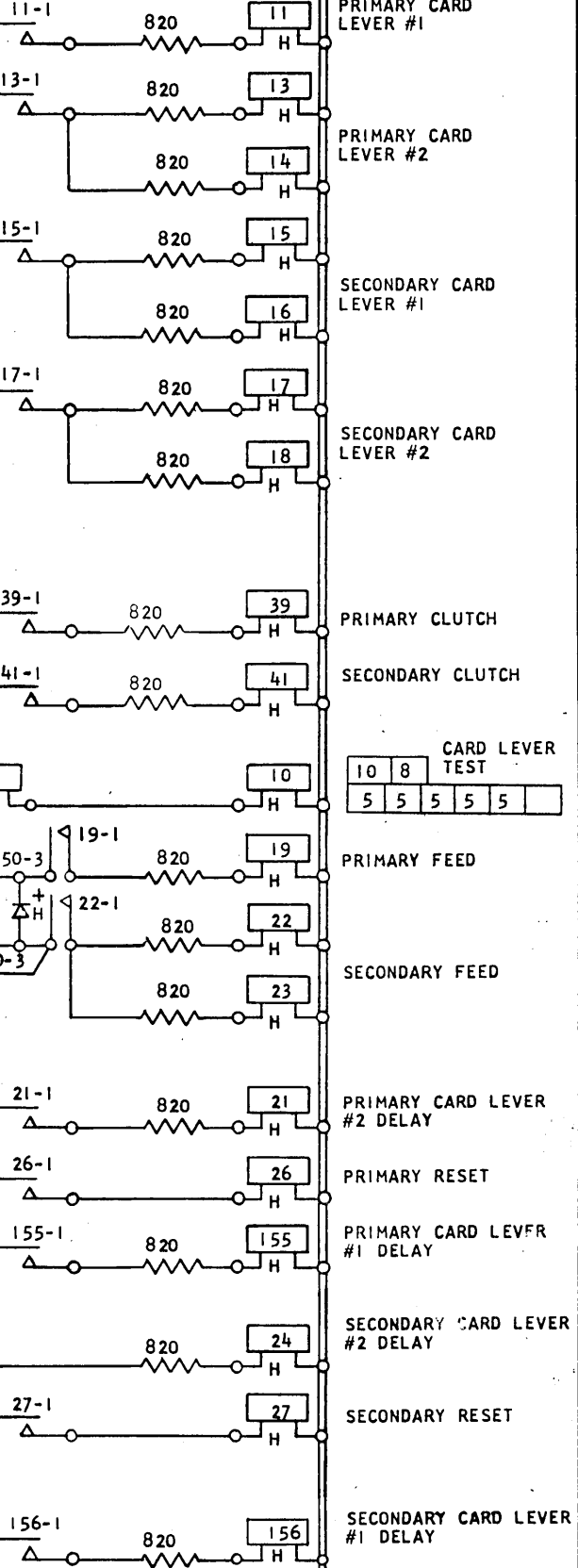
TO S8-C SECT 7

C6
M-306
B-246

C7
M-180
B-330

P7
M-172
B-322

S7
M-208
B-330



PRIMARY CARD LEVER #1

PRIMARY CARD LEVER #2

SECONDARY CARD LEVER #1

SECONDARY CARD LEVER #2

PRIMARY CLUTCH

SECONDARY CLUTCH

PRIMARY FEED

SECONDARY FEED

PRIMARY CARD LEVER #2 DELAY

PRIMARY RESET

PRIMARY CARD LEVFR #1 DELAY

SECONDARY CARD LEVER #2 DELAY

SECONDARY RESET

SECONDARY CARD LEVER #1 DELAY

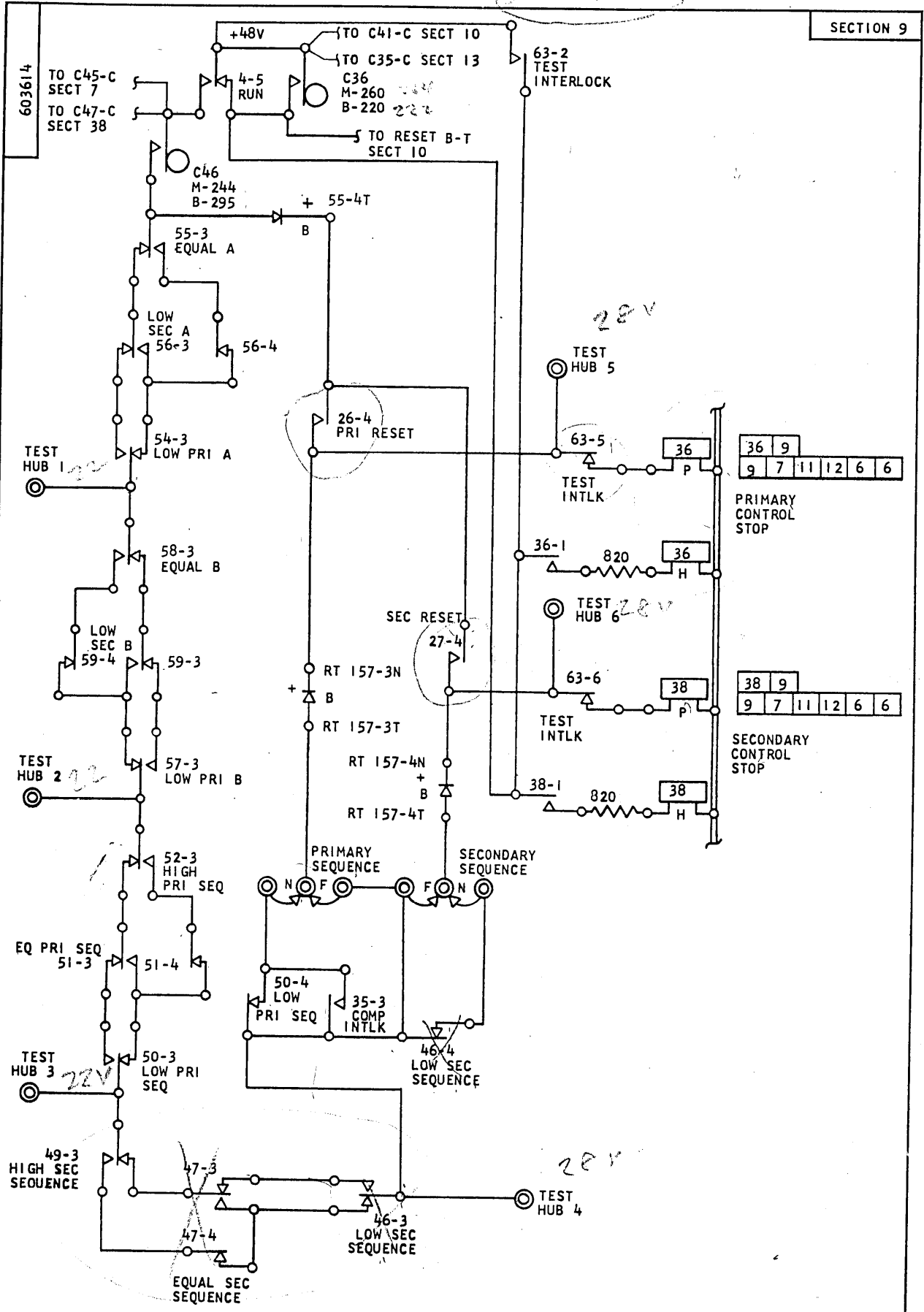
CARD LEVER TEST

10	8				
5	5	5	5	5	

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE X PRINT TO ENG. SPEC. NO. 895291	DEVELOPMENT NO.
NAME	WIRING DIAGRAM 88			8-11-60	800945U				
DESIGN	5-6-60			5-21-62	802662				
DETAIL	5-6-60			3-24-64	807508				
CHECK	HEK	8-18-60	DRAW DB	6-7-60					
APPRO	HEK	8-18-60	CHECK PW	6-7-60					
									603613

22-1720

SECTION 9



53
56
54
58
59
57
52
51
50
49
47

22V

22V

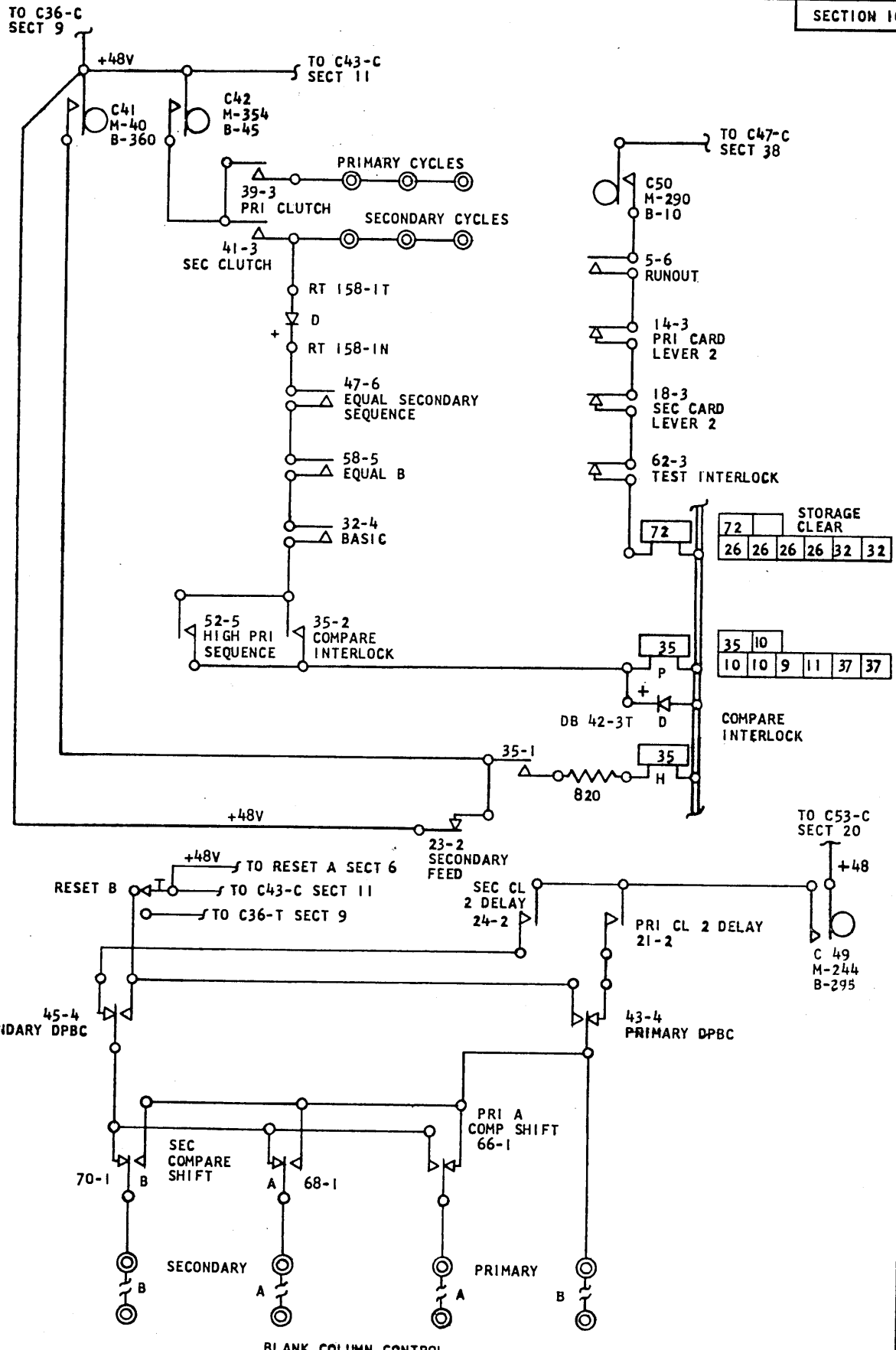
22V

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	WIRING DIAGRAM 88	8-11-60	800945U			NOTE X PRINT TO ENG. SPEC. NO. 895291	
DESIGN	SJL 5-6-60	10-17-60	801832				
DETAIL	SJL 5-6-60	5-21-62	802662				
CHECK	AKK 8-18-60						
APPRO	AKK 8-18-60	DRAW	DMB 6-7-60	CHECK	PWN 6-7-60		603614

SECTION 9

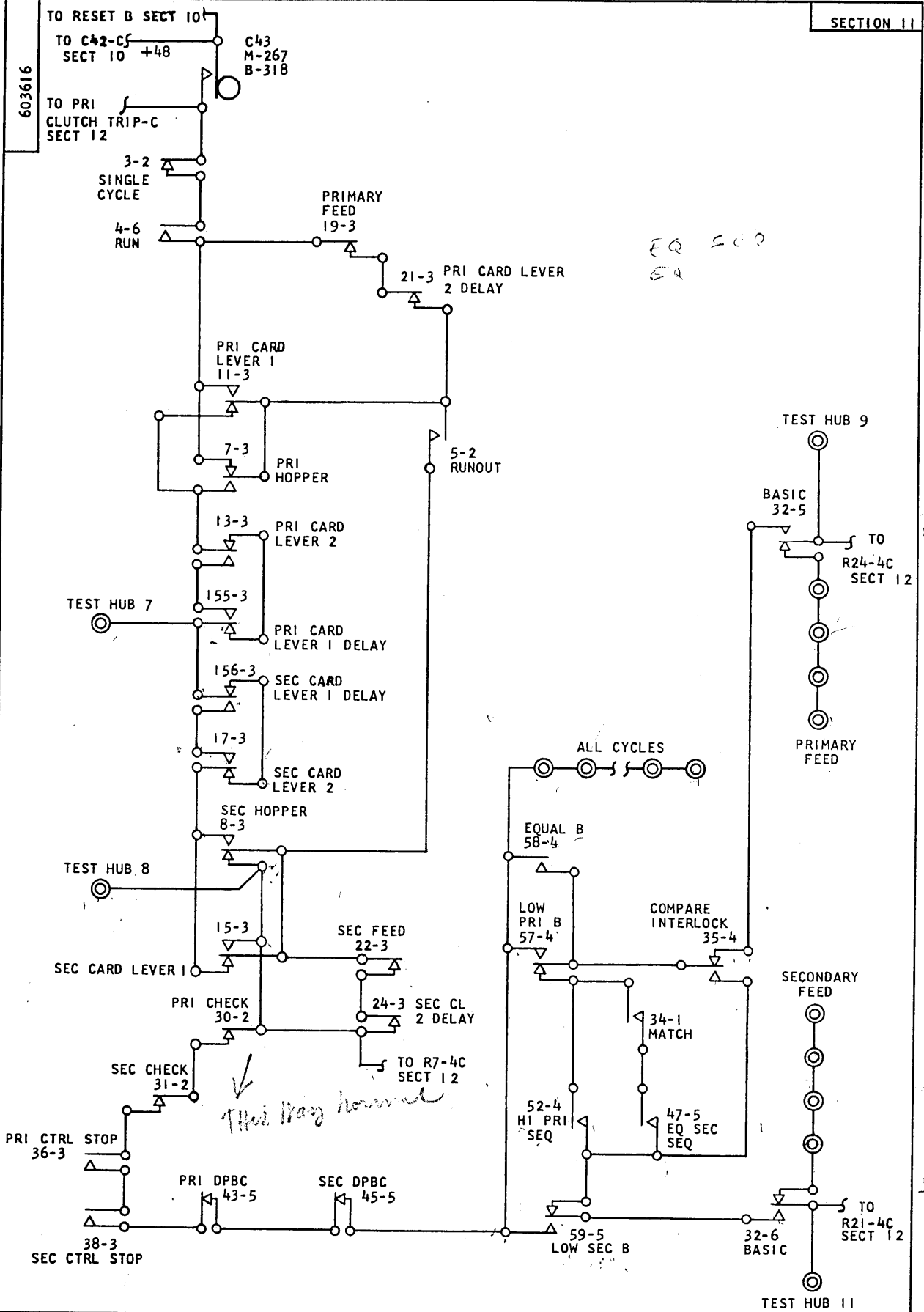
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603615



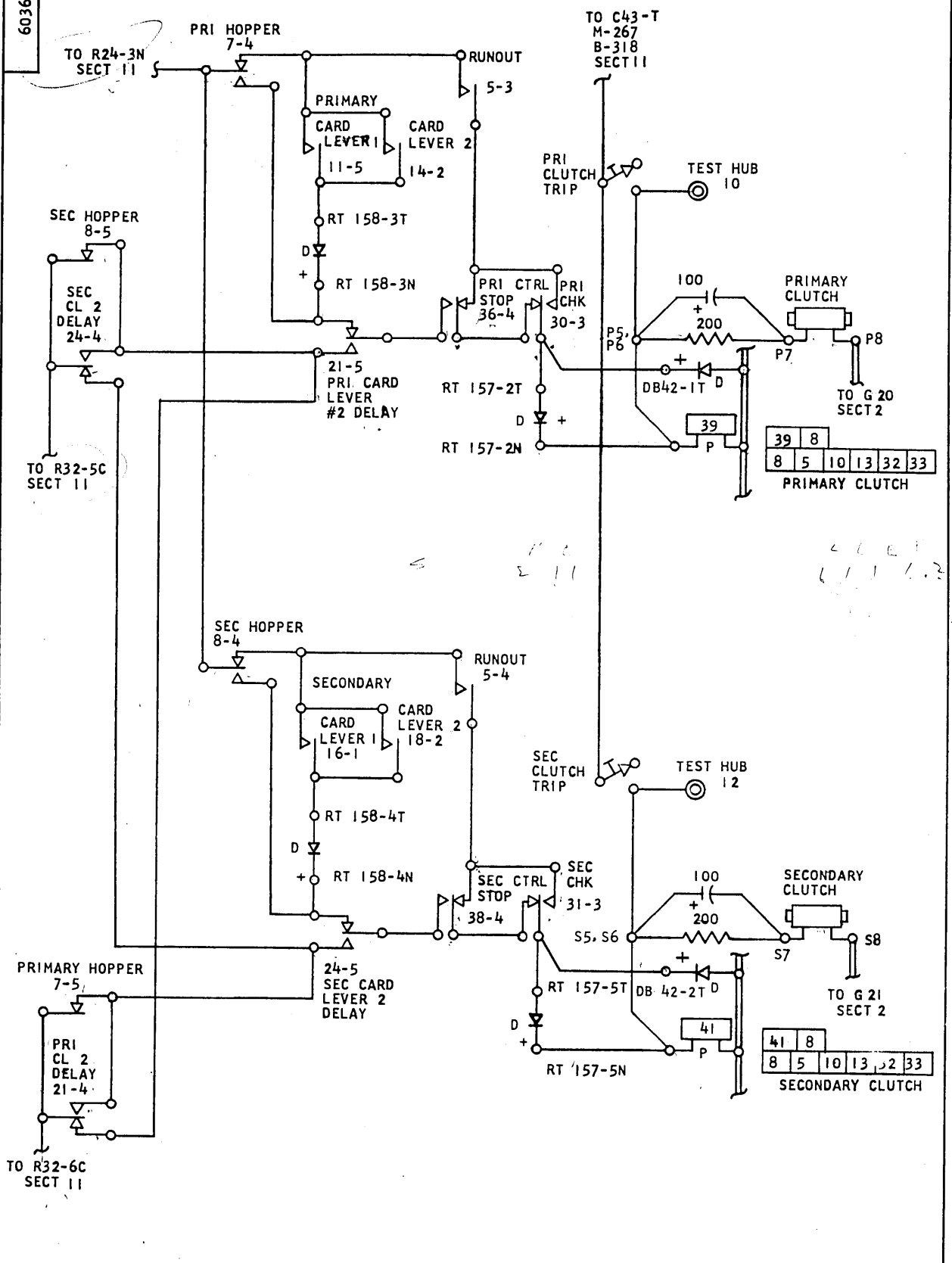
INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE X PRINT TO ENG. SPEC. NO. 895291	DEVELOPMENT NO.
NAME				8-11-60	800945U				
WIRING DIAGRAM 88				5-21-62	802662				
DESIGN	5-6-60	MODEL	88	8-7-62	802662J				
DETAIL	5-6-60			9-20-62	802662-K				
CHECK	8-18-60	DRAW	DB 6-7-60						
APPRO	8-18-60	CHECK	PW 6-8-60						

603616



INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE X PRINT TO ENG. SPEC. NO. 895291	DEVELOPMENT NO.
NAME	WIRING DIAGRAM 88	8-11-60	800945U				
DESIGN	5-6-60	1-11-61	802145				
DETAIL	5-6-60	5-21-62	802662				
CHECK	8-18-60	DRAW	DMB 6-7-60				
APPRO	8-18-60	CHECK	PWW 6-8-60				
							603616

603617

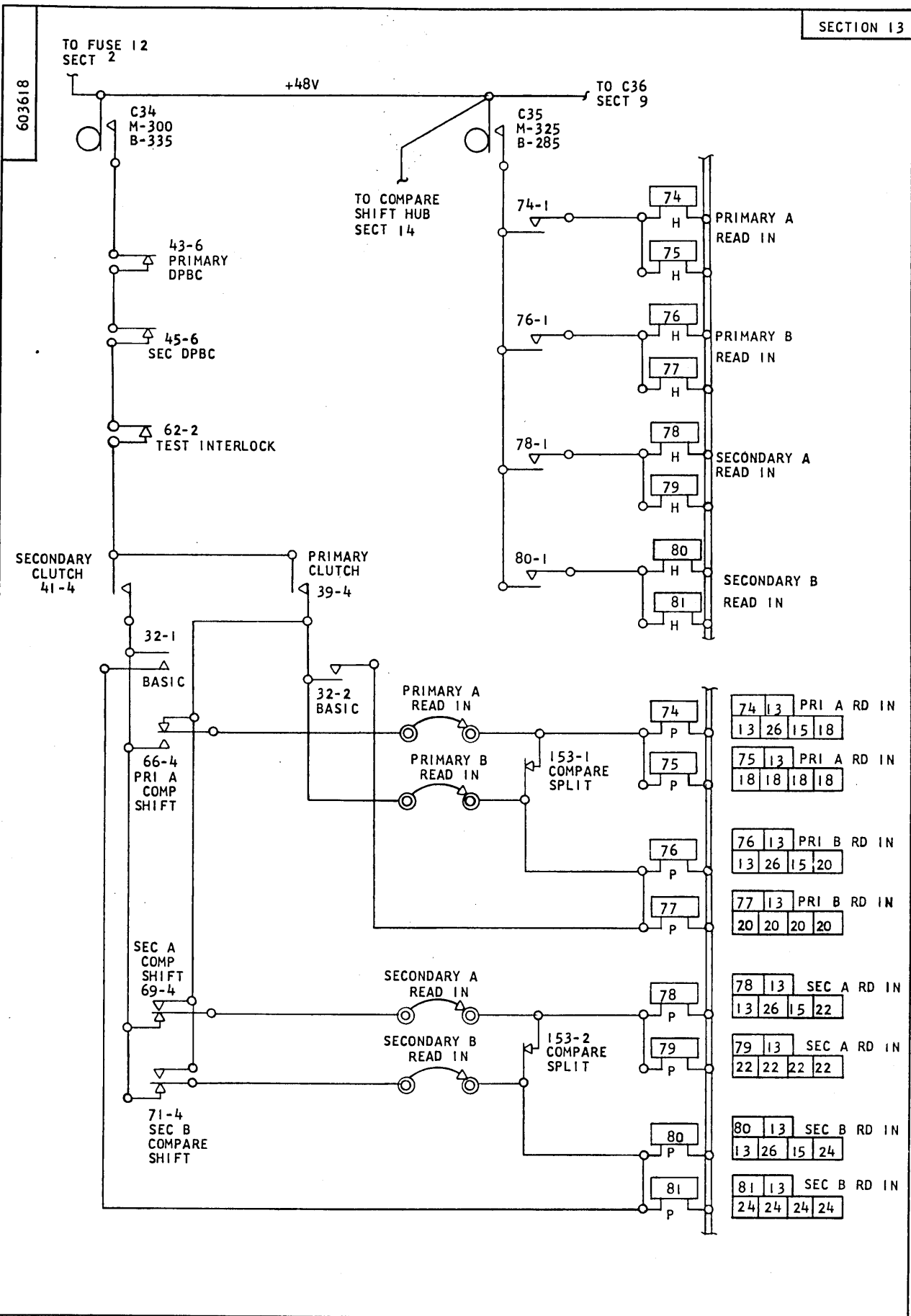


INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE X PRINT TO ENG. SPEC. NO. 895291	DEVELOPMENT NO.
NAME	WIRING DIAGRAM 88			8-11-60	800945U				
DESIGN	5-6-60			1-11-61	802145				
DETAIL	5-6-60			5-21-62	802662				
CHECK	WEX	8-18-60	DRAW	DB	6-7-60				
APPRO	WEX	8-18-60	CHECK	PW	6-8-60				

603617

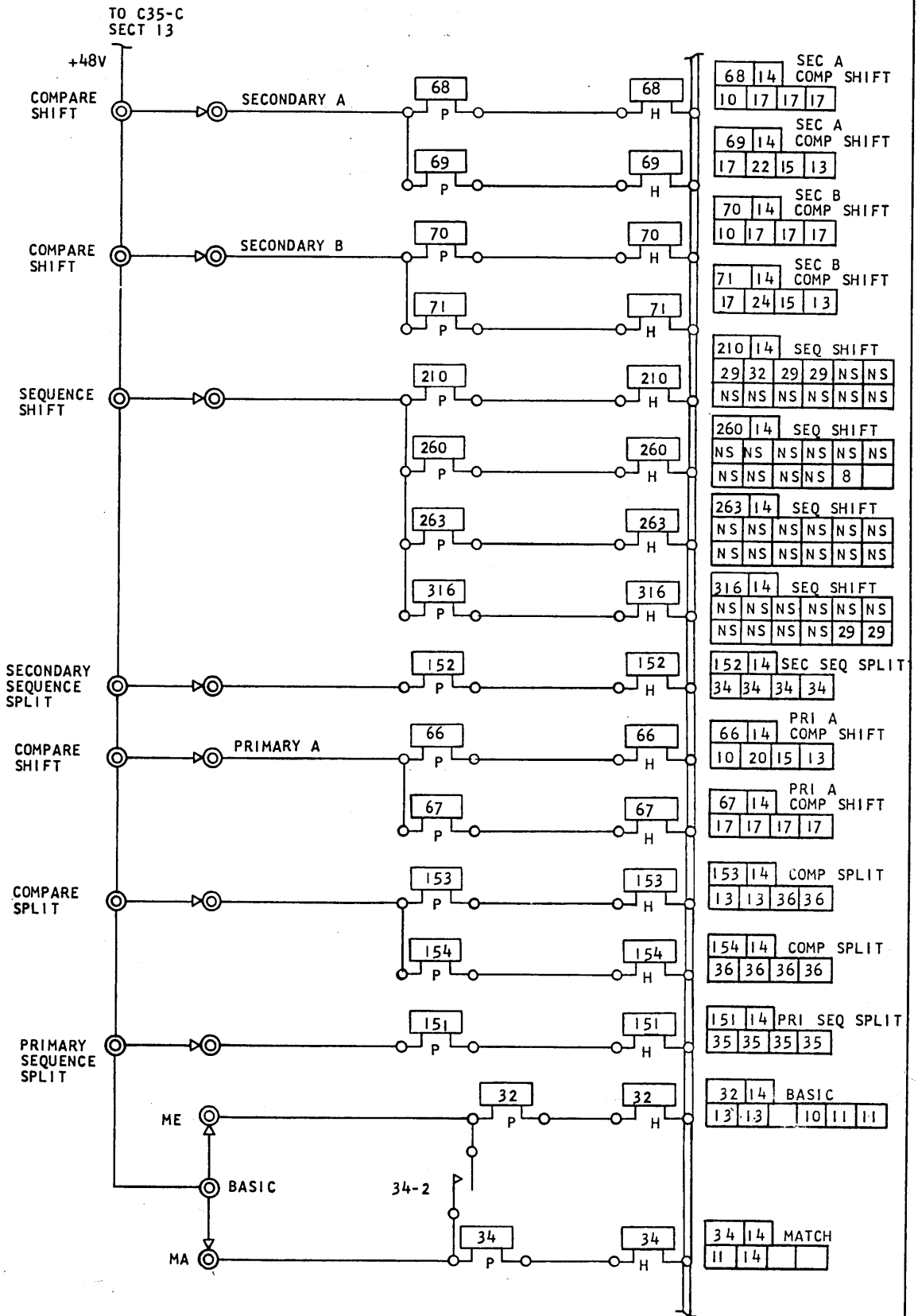
SECTION 12

WHITELI, INC.

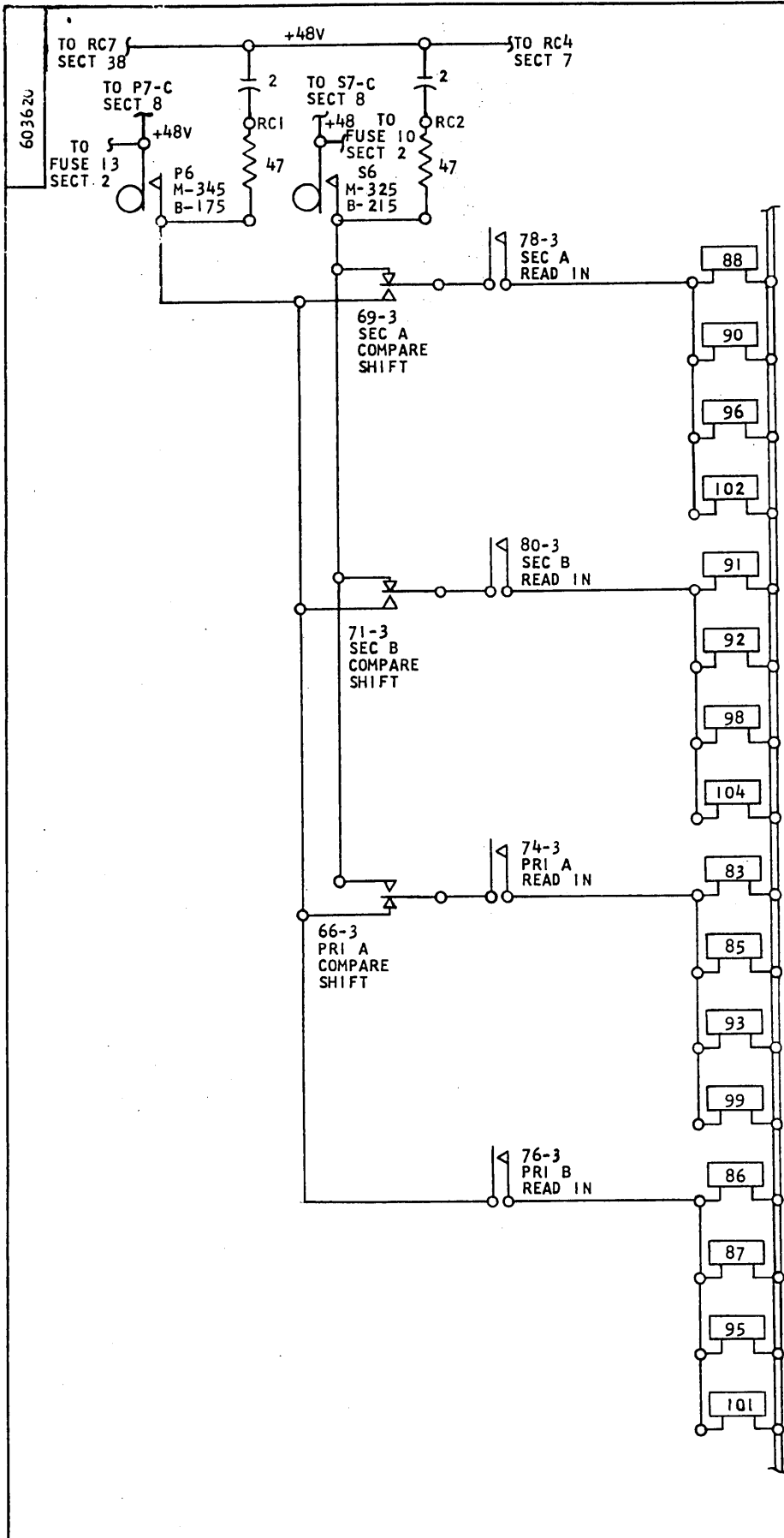


INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE X PRINT TO ENG. SPEC. NO. 895291	DEVELOPMENT NO.	SECTION 13
NAME WIRING DIAGRAM 88				8-11-60	800945U					
DESIGN	5-6-60	MODEL	88							
DETAIL	5-6-60									
CHECK	8-11-60	DRAW	DB	6-7-60						
APPRO	8-11-60	CHECK	PW	6-7-60						
									603618	

603619



INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE X PRINT TO ENG. SPEC. NO. 895291	DEVELOPMENT NO.
NAME WIRING DIAGRAM 88				8-11-60	800945U				
DESIGN	SJM	5-6-60	MODEL	88					
DETAIL	SJM	5-6-60							
CHECK	HEK	8-18-60	DRAW	DMB	6-7-60				
APPRO	HEK	8-18-60	CHECK	PWW	6-7-60				
									603619

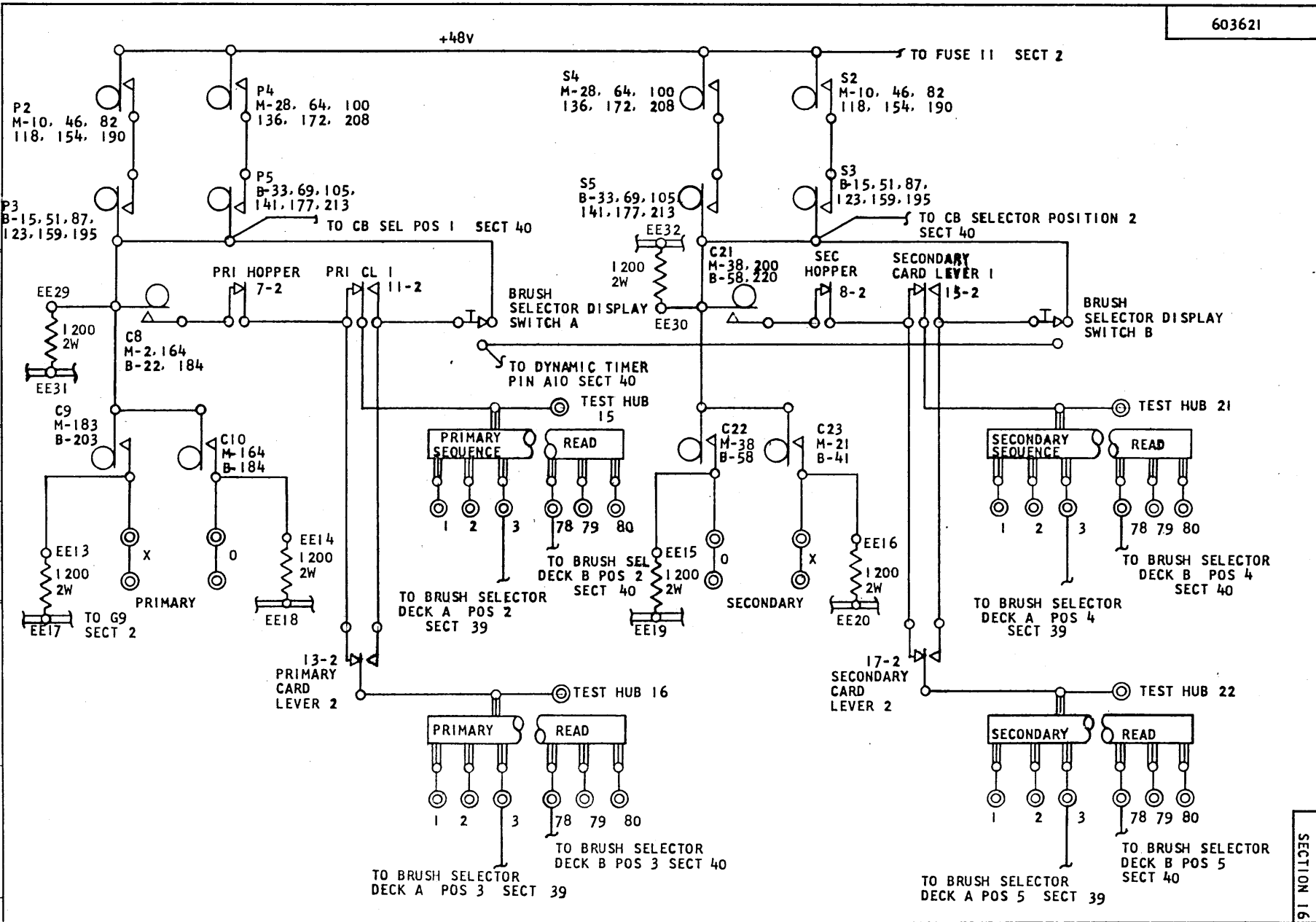


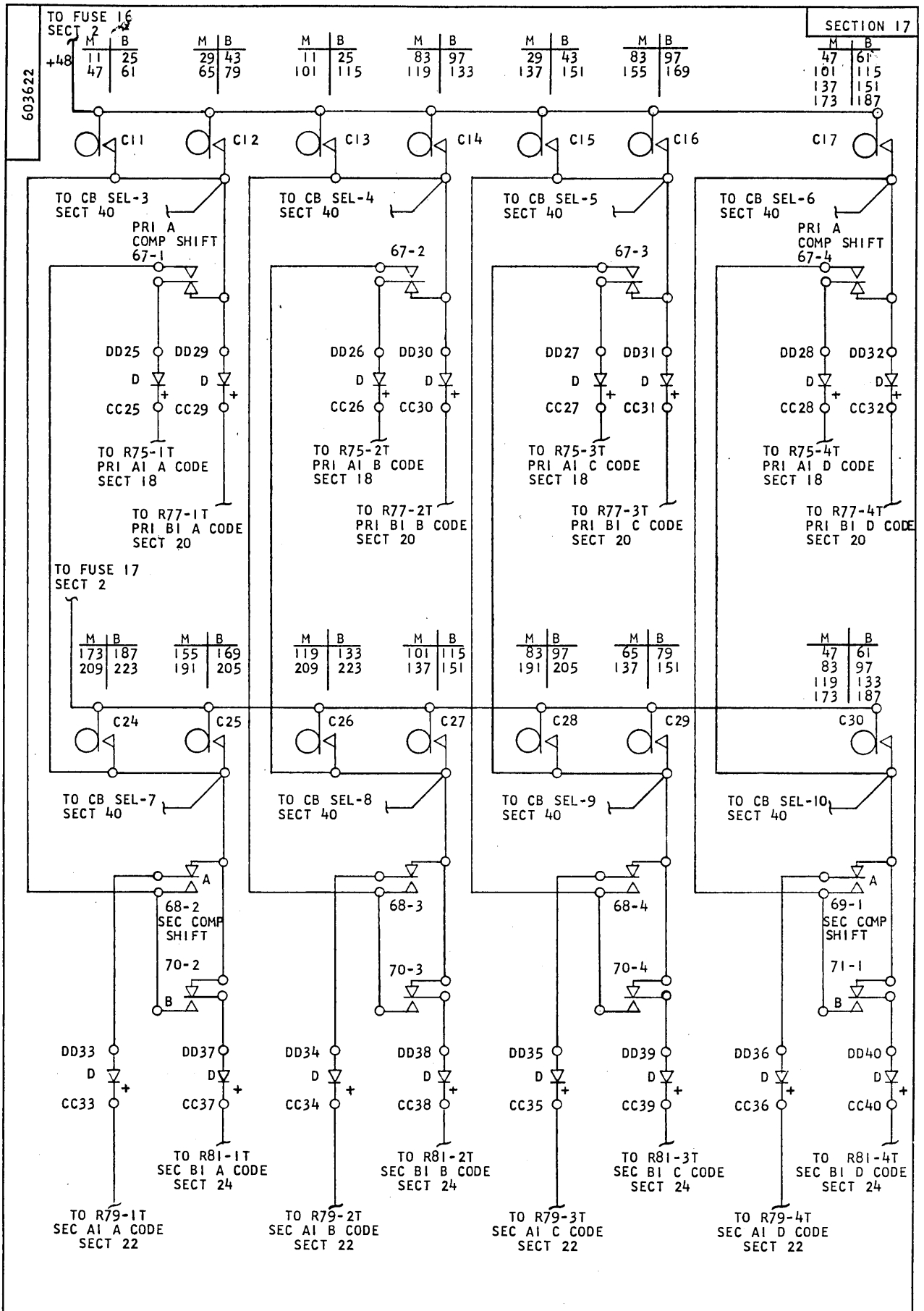
HOLD COILS NOT USED

88	SECONDARY A BLANK COLUMN TEST	22	22	NS	NS	NS	NS
90	SECONDARY A BLANK COLUMN TEST	NS	NS	NS	NS		
96	SECONDARY A BLANK COLUMN TEST	NS	NS	NS	NS	NS	NS
102	SECONDARY A BLANK COLUMN TEST	NS	NS	NS	NS	22	22
91	SECONDARY B BLANK COLUMN TEST	24	24	NS	NS	NS	NS
92	SECONDARY B BLANK COLUMN TEST	NS	NS	NS	NS		
98	SECONDARY B BLANK COLUMN TEST	NS	NS	NS	NS	NS	NS
104	SECONDARY B BLANK COLUMN TEST	NS	NS	NS	NS	24	24
83	PRIMARY A BLANK COLUMN TEST	18	18	NS	NS	NS	NS
85	PRIMARY A BLANK COLUMN TEST	NS	NS	NS	NS		
93	PRIMARY A BLANK COLUMN TEST	NS	NS	NS	NS	NS	NS
99	PRIMARY A BLANK COLUMN TEST	NS	NS	NS	NS	18	18
86	PRIMARY B BLANK COLUMN TEST	20	20	NS	NS	NS	NS
87	PRIMARY B BLANK COLUMN TEST	NS	NS	NS	NS		
95	PRIMARY B BLANK COLUMN TEST	NS	NS	NS	NS	NS	NS
101	PRIMARY B BLANK COLUMN TEST	NS	NS	NS	NS	20	20

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE X PRINT TO ENG. SPEC. NO. 895291	DEVELOPMENT NO.
NAME	WIRING DIAGRAM 88	8-11-60	800945U				
DESIGN	5-6-60	MODEL	88	5-21-62	802662		
DETAIL	5-6-60						
CHECK	8-18-60	DRAW	DB	6-7-60			
APPRO	8-18-60	CHECK	PW	6-8-60			603620

INTERNATIONAL BUSINESS MACHINES CORP.		NAME		DATE		CHANGE NO.		NOTE		DEVELOPMENT NO.	
WIRING DIAGRAM 88		8-11-60		10-26-60		800945U		X PRINT TO ENG. SPEC. NO.		603621	
DESIGN NO. 5660		8-11-60		10-26-60		801831A		895291		603621	
DETAIL 5660		8-18-60		10-26-60		801831A					
CHECK 8-18-60		8-18-60		10-26-60		801831A					
APPROV. 8-18-60		8-18-60		10-26-60		801831A					
MODEL 88		DB 6-7-60		DB 6-7-60		DB 6-7-60					
CHECK PW 6-8-60		6-8-60		6-8-60		6-8-60					



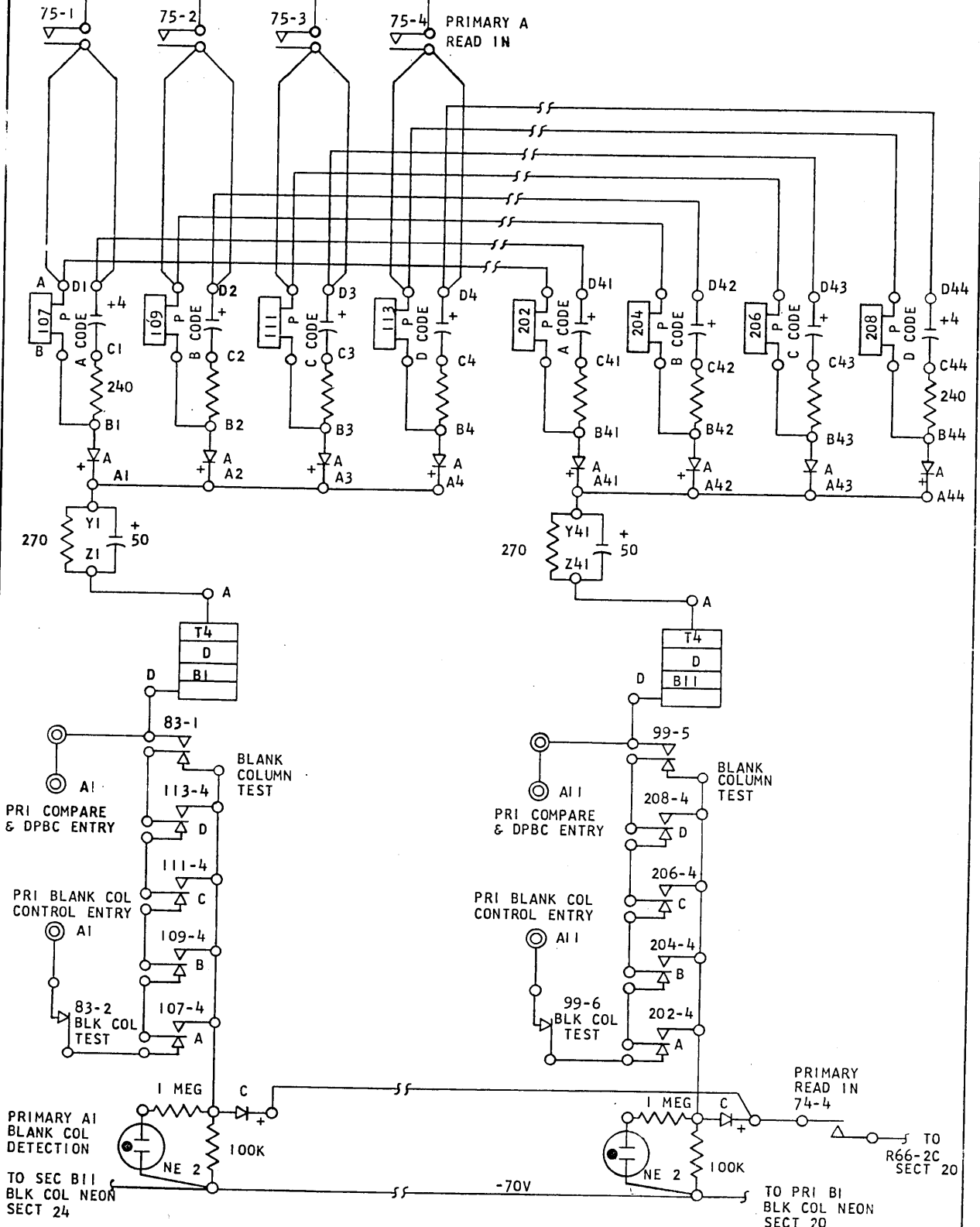


INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE X PRINT TO ENG. SPEC. NO. 895291	DEVELOPMENT NO.	SECTION 17
NAME	WIRING DIAGRAM 88			8-11-60	800945U					
DESIGN	5-6-60	MODEL	88							
DETAIL	5-6-60									
CHECK	8-18-60	DRAW	DB	6-7-60						
APPRO	8-18-60	CHECK	PW	6-8-60					603622	

603623

TO CC 25 SECT 17
 TO CC 26 SECT 17
 TO CC 27 SECT 17
 TO CC 28 SECT 17

PRIMARY COMPARE
 A POSITIONS



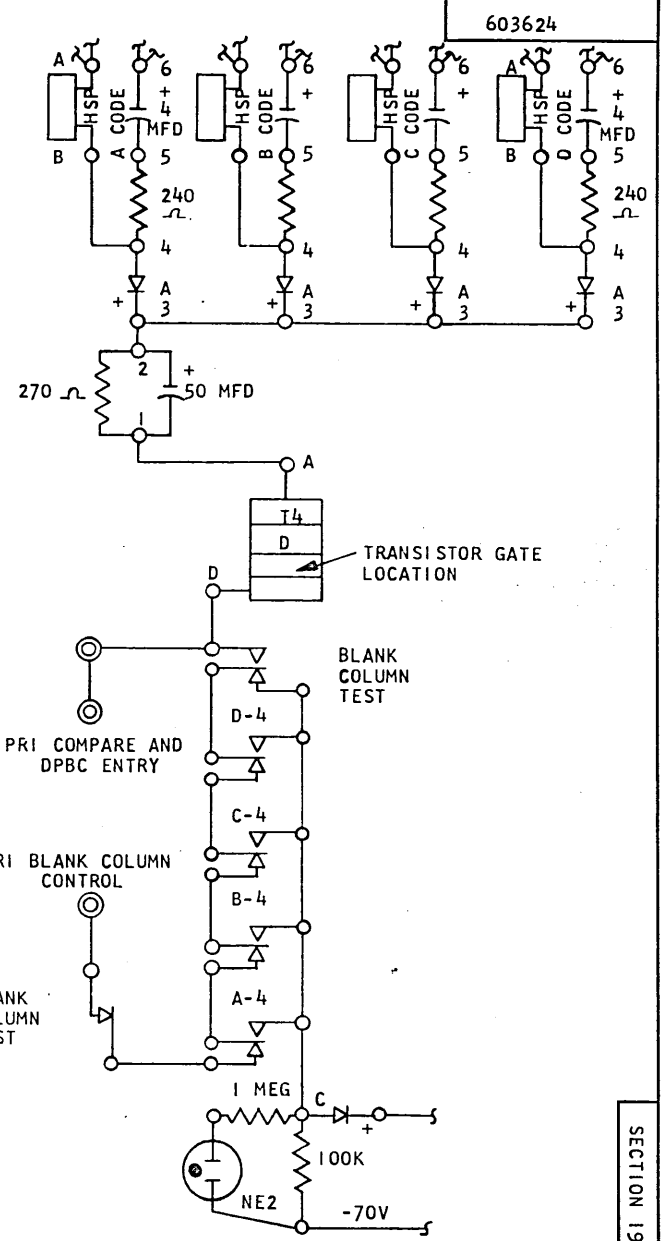
INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME WIRING DIAGRAM 88		8-11-60	800945U			X PRINT TO ENG. SPEC. NO.	
DESIGN	MODEL 88					895291	
DETAIL							
CHECK	DRAW DB 6-7-60						
APPRO	CHECK PW 6-8-60						
							603623

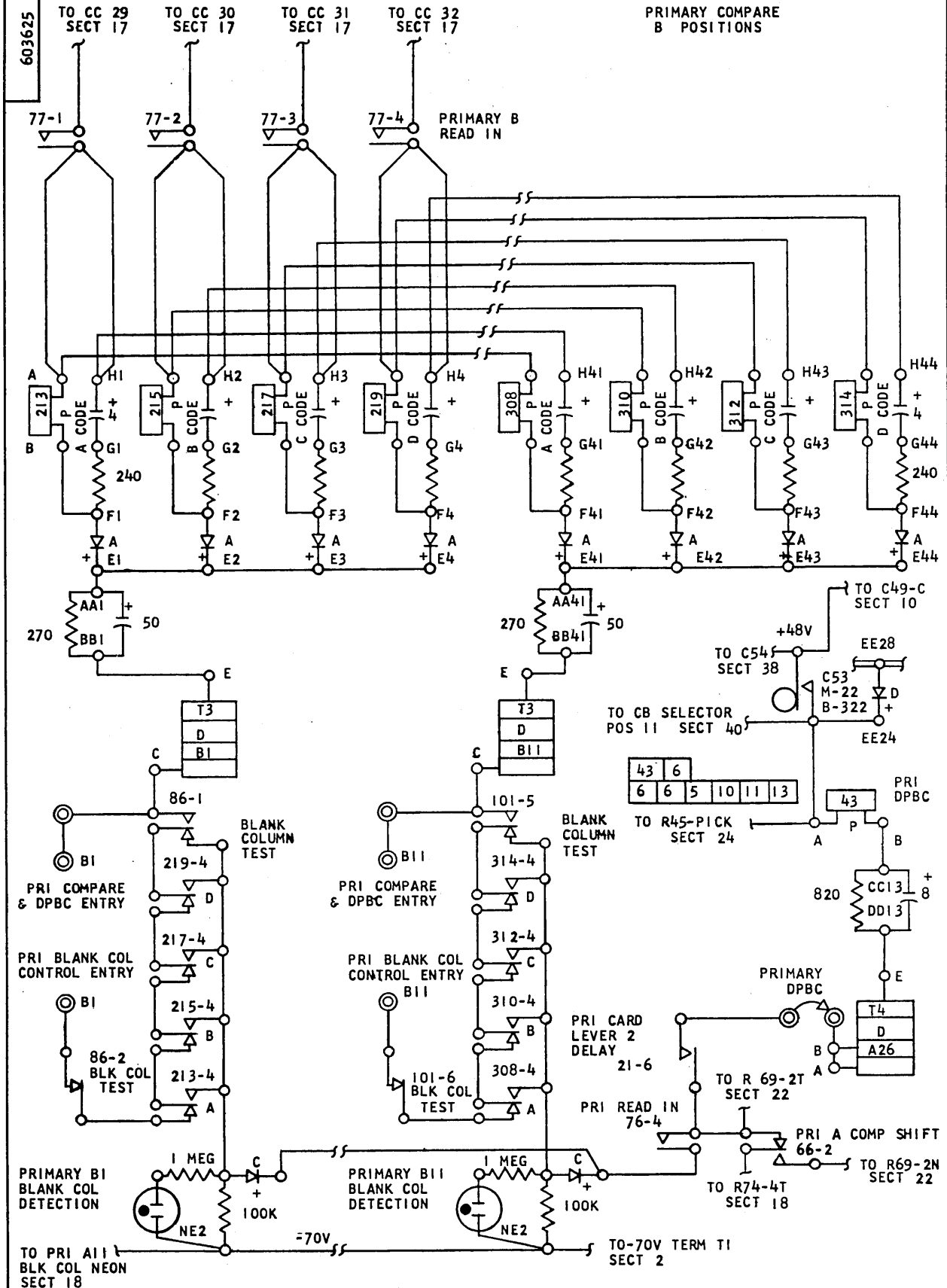
INTERNATIONAL BUSINESS MACHINES CORP.		NAME		DATE		CHANGE NO.		DATE		CHANGE NO.		NOTE		DEVELOPMENT NO.	
WIRING DIAGRAM 88		8-11-60		800945U		8-11-60		800945U		12-28-61		802878		X PRINT TO ENG. SPEC. NO. 895291	
DESIGN 5-6-60		MODEL 88												603624	
DETAIL 5-6-60															
CHECK 5-18-60		DRAW		DWB 6-7-60											
APPROV 8-18-60		CHECK		PWW 5-8-60											

PRIMARY COMPARE A

POS	BCT POINTS	TX LOC	DIODE-RESISTOR-CAPACITOR TERMINALS						CODE	RELAY NO	POINT LOCATION							
			1	2	3	4	5	6			P	H	1	2	3	4		
A1	83-1	B1	Z1	Y1	A1	B1	C1	D1	A	107	18	26	26	36	18			
					A2	B2	C2	D2	B	109	18	26	26	36	18			
	A3				B3	C3	D3	C	111	18	26	26	36	18				
	A4				B4	C4	D4	D	113	18	26	26	36	18				
A2	83-3	B2	Z5	Y5	A5	B5	C5	D5	A	115	NS	NS	NS	36	NS			
					A6	B6	C6	D6	B	117				36				
	A7				B7	C7	D7	C	119				36					
	A8				B8	C8	D8	D	121				36					
A3	83-5	B3	Z9	Y9	A9	B9	C9	D9	A	124				36				
					A10	B10	C10	D10	B	126				36				
	A11				B11	C11	D11	C	128				36					
	A12				B12	C12	D12	D	130				36					
A4	85-1	B4	Z13	Y13	A13	B13	C13	D13	A	132				36				
					A14	B14	C14	D14	B	134				36				
	A15				B15	C15	D15	C	136				36					
	A16				B16	C16	D16	D	138				36					
A5	85-3	B5	Z17	Y17	A17	B17	C17	D17	A	141				36				
					A18	B18	C18	D18	B	143				36				
	A19				B19	C19	D19	C	145				36					
	A20				B20	C20	D20	D	147				36					
A6	93-1	B6	Z21	Y21	A21	B21	C21	D21	A	160				36				
					A22	B22	C22	D22	B	162				36				
	A23				B23	C23	D23	C	164				36					
	A24				B24	C24	D24	D	166				36					
A7	93-3	B7	Z25	Y25	A25	B25	C25	D25	A	168				36				
					A26	B26	C26	D26	B	170				36				
	A27				B27	C27	D27	C	172				36					
	A28				B28	C28	D28	D	174				36					
A8	93-5	B8	Z29	Y29	A29	B29	C29	D29	A	177				36				
					A30	B30	C30	D30	B	179				36				
	A31				B31	C31	D31	C	181				36					
	A32				B32	C32	D32	D	183				36					
A9	99-1	B9	Z33	Y33	A33	B33	C33	D33	A	185				36				
					A34	B34	C34	D34	B	187				36				
	A35				B35	C35	D35	C	189				36					
	A36				B36	C36	D36	D	191				36					
A10	99-3	B10	Z37	Y37	A37	B37	C37	D37	A	194				36				
					A38	B38	C38	D38	B	196				36				
	A39				B39	C39	D39	C	198				36					
	A40				B40	C40	D40	D	200	NS	NS	NS	36	NS				
A11	99-5	B11	Z41	Y41	A41	B41	C41	D41	A	202	18	26	26	36	18			
					A42	B42	C42	D42	B	204	18	26	26	36	18			
	A43				B43	C43	D43	C	206	18	26	26	36	18				
	A44				B44	C44	D44	D	208	18	26	26	36	18				

PRIMARY COMPARE A





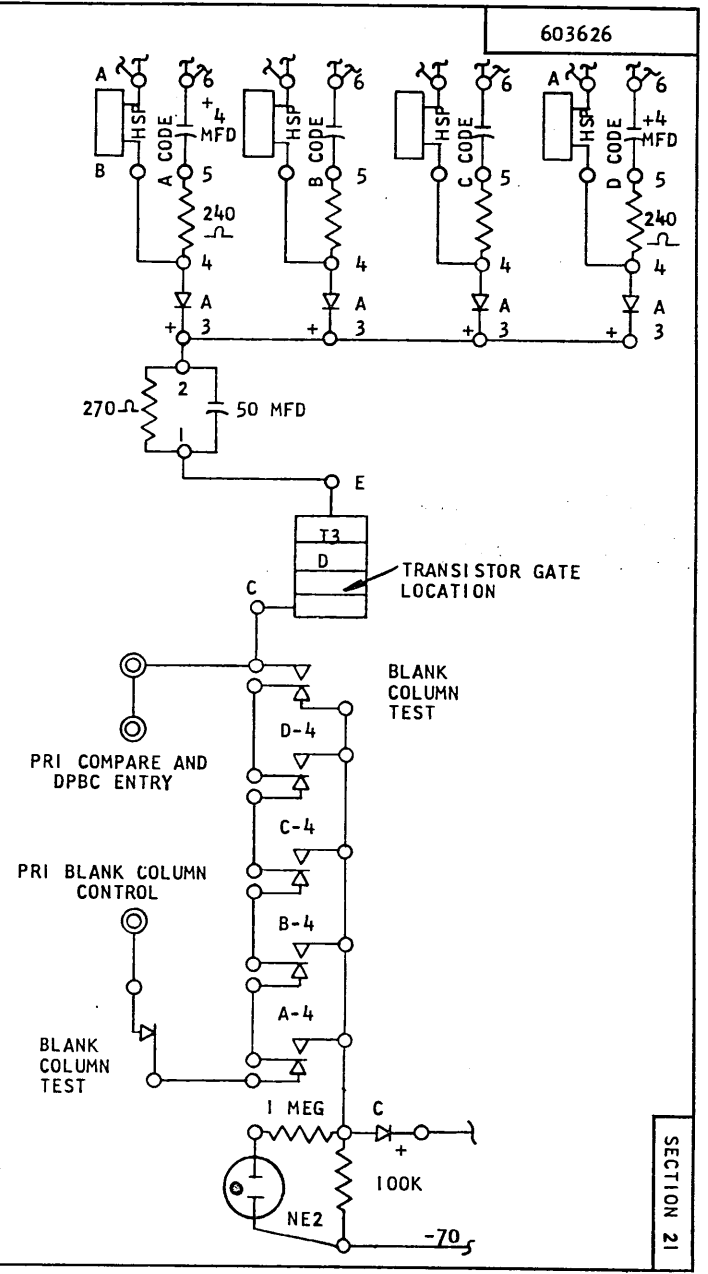
INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	WIRING DIAGRAM 88	8-11-60	800945U			NOTE X PRINT TO ENG. SPEC. NO. 895291	
DESIGN	5-6-60	12-28-61	802878				
DETAIL	5-6-60	5-21-62	802662				
CHECK	8-18-60						
APPRO	8-18-60						603625

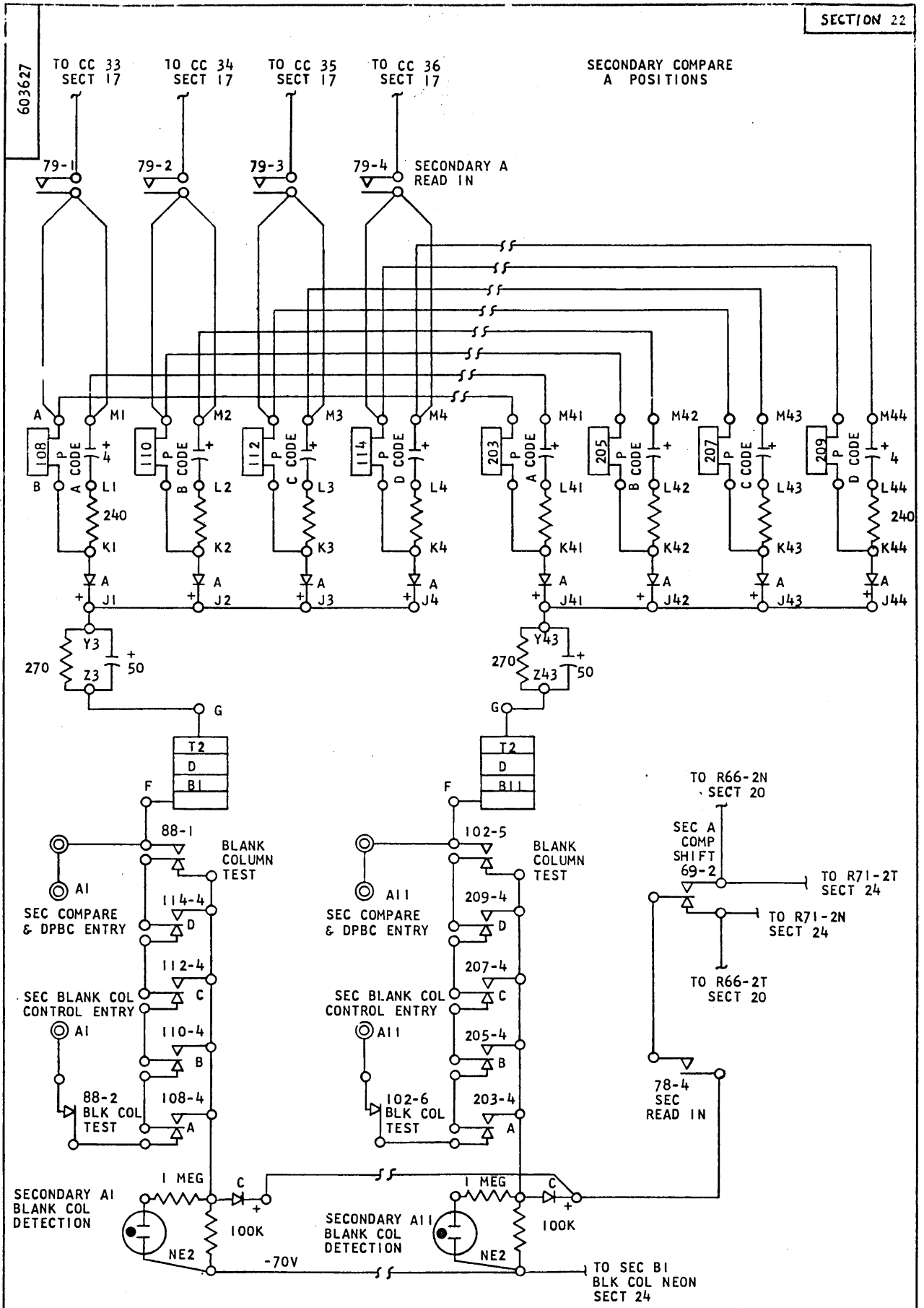
DESIGNER		MODEL		DATE		CHANGE NO.		DATE		CHANGE NO.		NOTE	
S-6-60		88		8-11-60		800945U						X PRINT TO ENG. SPEC. NO.	
CHECK		DRAWN		DATE		CHANGE NO.		DATE		CHANGE NO.		NOTE	
S-6-60		DMB 6-7-60		12-28-61		802878						895291	
APPROV		CHECK		DATE		CHANGE NO.		DATE		CHANGE NO.		NOTE	
S-6-60		PWW 6-8-60										603626	
INTERNATIONAL BUSINESS MACHINES CORP.													
NAME WIRING DIAGRAM 88													
DATE 8-11-60													
CHANGE NO. 800945U													
DATE 12-28-61													
CHANGE NO. 802878													
NOTE X PRINT TO ENG. SPEC. NO. 895291													
DEVELOPMENT NO. 603626													
SECTION 21													

PRIMARY COMPARE B

POS	BCT POINTS	TX LOC	DIODE-RESISTOR-CAPACITOR TERMINAL						CODE	RELAY NO.	POINT LOCATION				
			1	2	3	4	5	6			P	H	I	2	3
B1	86-1	B1	BB1	AA1	E1	F1	G1	H1	A	213	20	26	26	37	20
					E2	F2	G2	H2	B	215	20	26	26	37	20
	E3				F3	G3	H3	C	217	20	26	26	37	20	
	E4				F4	G4	H4	D	219	20	26	26	37	20	
B2	86-3	B2	BB5	AA5	E5	F5	G5	H5	A	221	NS	NS	NS	37	NS
					E6	F6	G6	H6	B	223				37	
	E7				F7	G7	H7	C	225				37		
	E8				F8	G8	H8	D	227				37		
B3	86-5	B3	BB9	AA9	E9	F9	G9	H9	A	230				37	
					E10	F10	G10	H10	B	232				37	
	E11				F11	G11	H11	C	234				37		
	E12				F12	G12	H12	D	236				37		
B4	87-1	B4	BB13	AA13	E13	F13	G13	H13	A	238				37	
					E14	F14	G14	H14	B	240				37	
	E15				F15	G15	H15	C	242				37		
	E16				F16	G16	H16	D	244				37		
B5	87-3	B5	BB17	AA17	E17	F17	G17	H17	A	247				37	
					E18	F18	G18	H18	B	249				37	
	E19				F19	G19	H19	C	251				37		
	E20				F20	G20	H20	D	253				37		
B6	95-1	B6	BB21	AA21	E21	F21	G21	H21	A	266				37	
					E22	F22	G22	H22	B	268				37	
	E23				F23	G23	H23	C	270				37		
	E24				F24	G24	H24	D	272				37		
B7	95-3	B7	BB25	AA25	E25	F25	G25	H25	A	274				37	
					E26	F26	G26	H26	B	276				37	
	E27				F27	G27	H27	C	278				37		
	E28				F28	G28	H28	D	280				37		
B8	95-5	B8	BB29	AA29	E29	F29	G29	H29	A	283				37	
					E30	F30	G30	H30	B	285				37	
	E31				F31	G31	H31	C	287				37		
	E32				F32	G32	H32	D	289				37		
B9	101-1	B9	BB33	AA33	E33	F33	G33	H33	A	291				37	
					E34	F34	G34	H34	B	293				37	
	E35				F35	G35	H35	C	295				37		
	E36				F36	G36	H36	D	297				37		
B10	101-3	B10	BB37	AA37	E37	F37	G37	H37	A	300				37	
					E38	F38	G38	H38	B	302				37	
	E39				F39	G39	H39	C	304				37		
	E40				F40	G40	H40	D	306	NS	NS	NS	37	NS	
B11	101-5	B11	BB41	AA41	E41	F41	G41	H41	A	308	20	26	26	37	20
					E42	F42	G42	H42	B	310	20	26	26	37	20
	E43				F43	G43	H43	C	312	20	26	26	37	20	
	E44				F44	G44	H44	D	314	20	26	26	37	20	

PRIMARY COMPARE B





INTERNATIONAL BUSINESS MACHINES CORP.			DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME			8-11-60	800945U			X PRINT TO ENG. SPEC. NO. 895291	
DESIGN								
DETAIL								
CHECK								
APPRO								
								603627

INTERNATIONAL BUSINESS MACHINES CORP.

NAME: WIRING DIAGRAM 88
 DESIGN: S-6-60 MODEL: 88
 DATE: 8-11-60 CHANGE NO.: 800945U
 12-28-61 802878
 CHECK: P-18-60 DRAW: DMB 5-7-60
 APPRO: P-18-60 CHECK: PMW 5-8-60

DATE: 8-11-60 CHANGE NO.: 800945U
 DATE: 12-28-61 CHANGE NO.: 802878

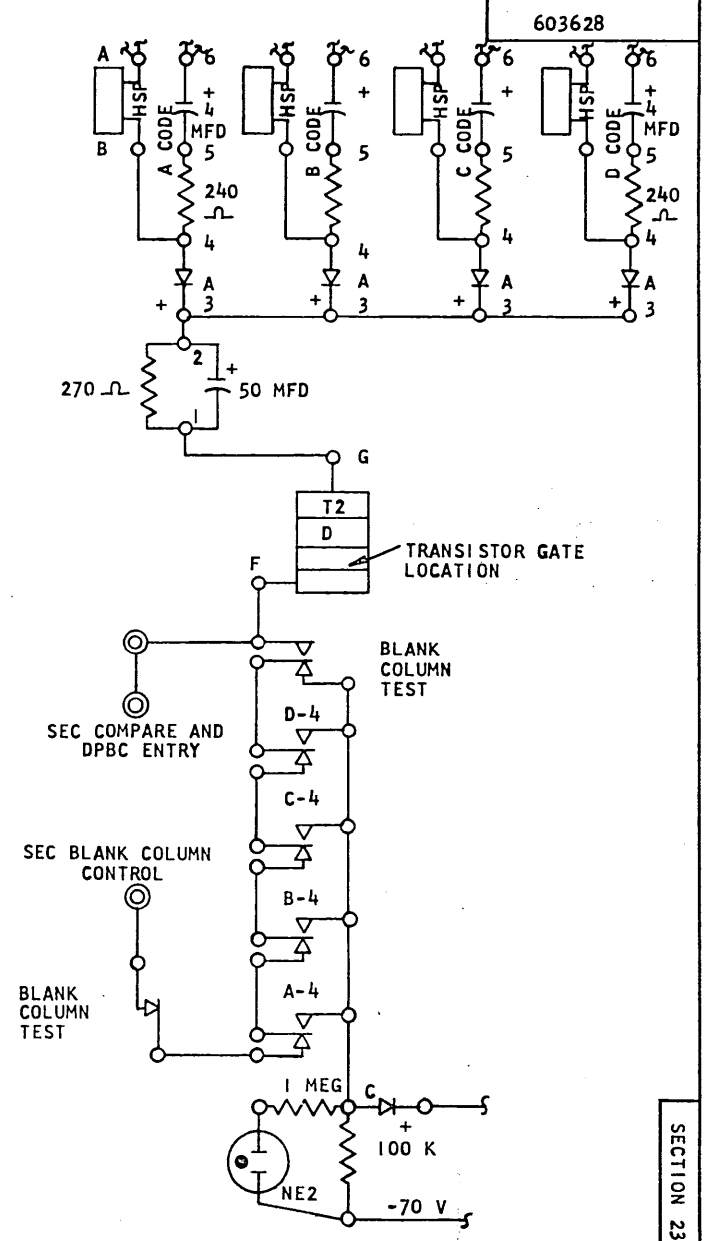
NOTE: X PRINT TO ENG. SPEC. NO. 895291

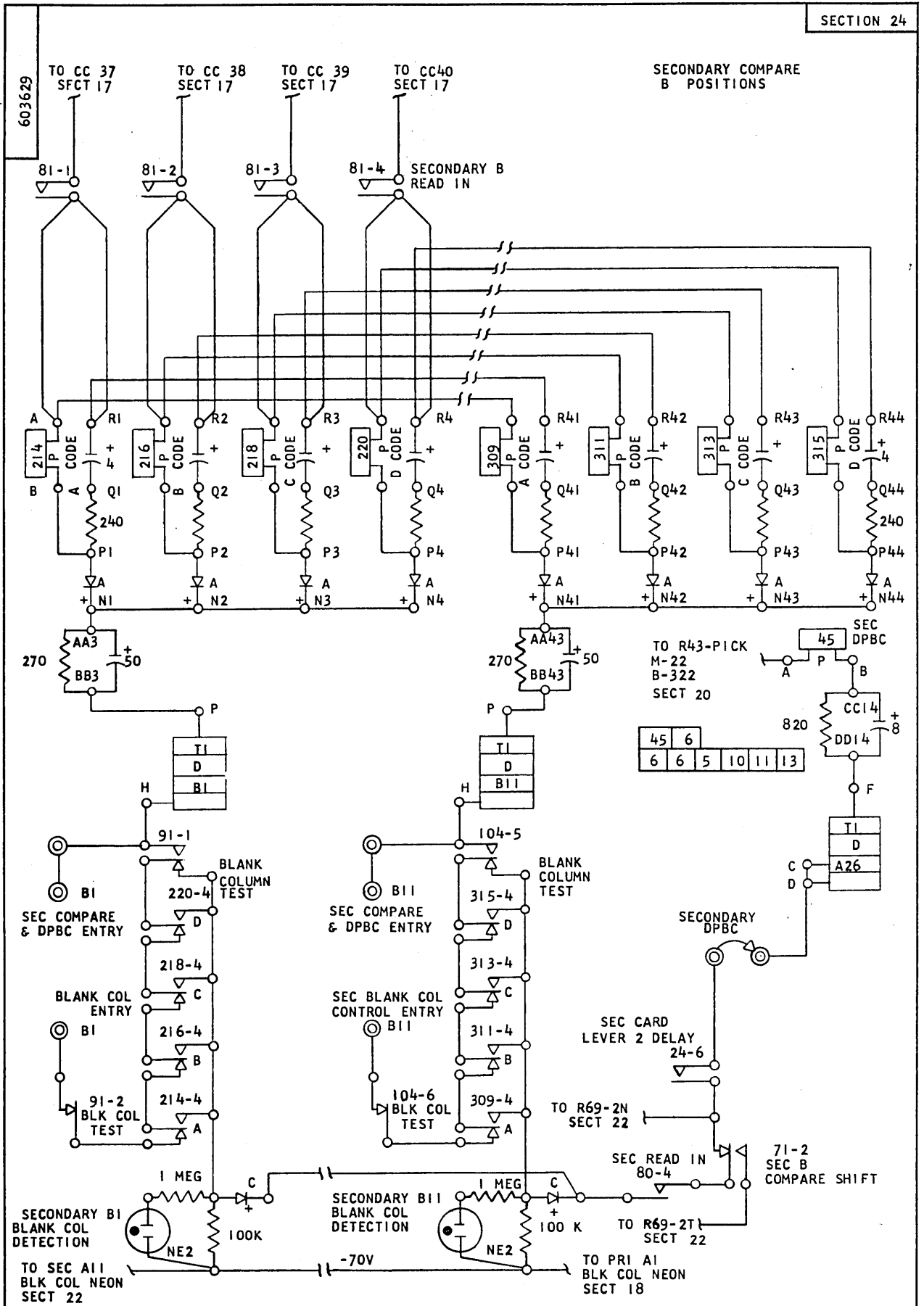
DEVELOPMENT NO. 603628

SECTION 23

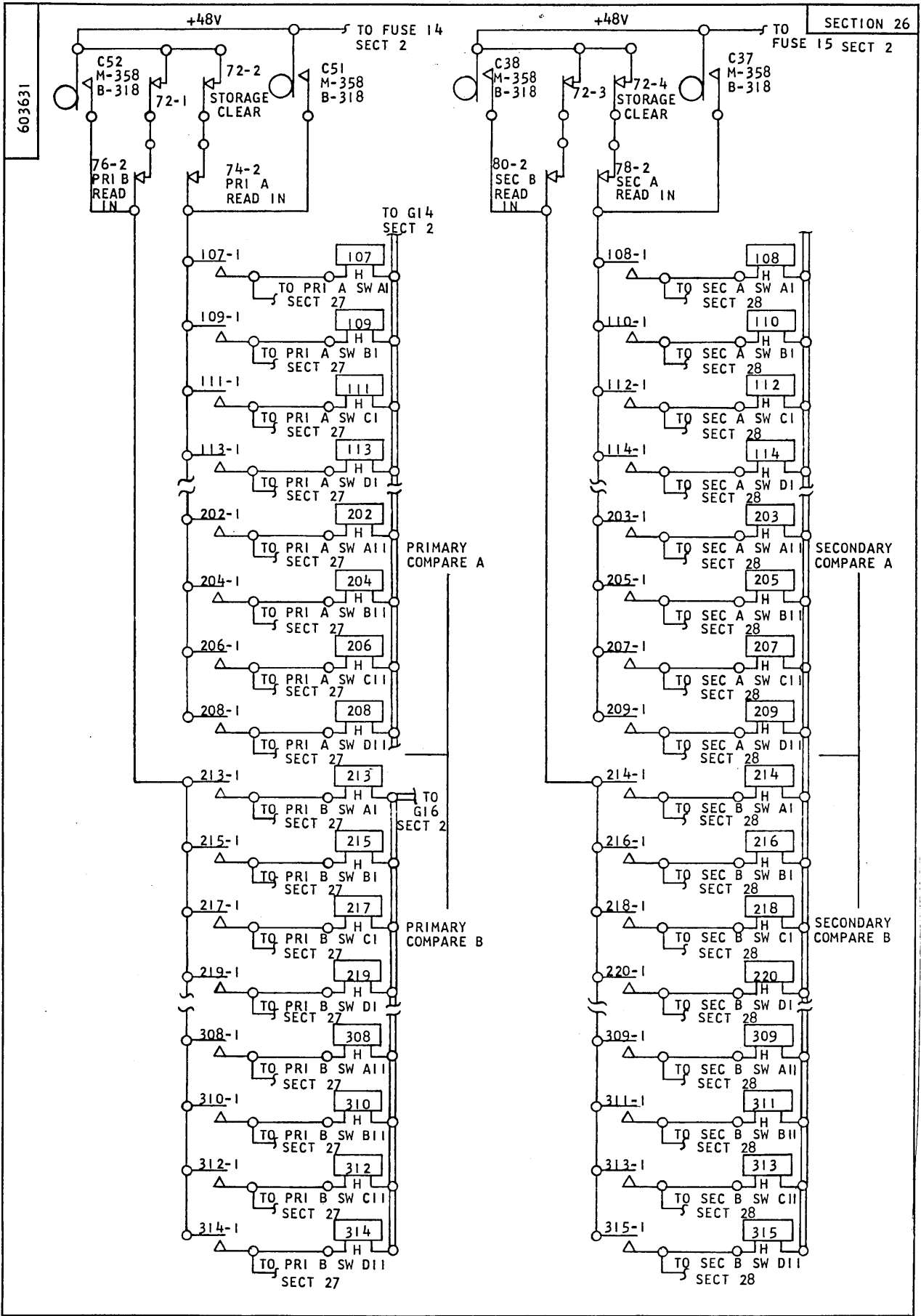
SECONDARY COMPARE A

POS	BCT POINTS	TX LOC	DIODE-RESISTOR-CAPACITOR TERMINALS						CODE	RELAY NO	POINT LOCATION					
			1	2	3	4	5	6			P	H	1	2	3	4
A1	88-1	B1	Z3	Y3	J1	K1	L1	M1	A	108	22	26	26	36	36	22
					J2	K2	L2	M2	B	110	22	26	26	36	36	22
	J3				K3	L3	M3	C	112	22	26	26	36	36	22	
	J4				K4	L4	M4	D	114	22	26	26	36	36	22	
	J5				K5	L5	M5	A	116	NS	NS	NS	36	36	NS	
A2	88-3	B2	Z7	Y7	J6	K6	L6	M6	B	118				36	36	
	88-4				J7	K7	L7	M7	C	120				36	36	
	J8				K8	L8	M8	D	122				36	36		
	J9				K9	L9	M9	A	125				36	36		
A3	88-5	B3	Z11	Y11	J10	K10	L10	M10	B	127				36	36	
	88-6				J11	K11	L11	M11	C	129				36	36	
	J12				K12	L12	M12	D	131				36	36		
A4	90-1	B4	Z15	Y15	J13	K13	L13	M13	A	133				36	36	
	90-2				J14	K14	L14	M14	B	135				36	36	
	J15				K15	L15	M15	C	137				36	36		
	J16				K16	L16	M16	D	139				36	36		
A5	90-3	B5	Z19	Y19	J17	K17	L17	M17	A	142				36	36	
	90-4				J18	K18	L18	M18	B	144				36	36	
	J19				K19	L19	M19	C	146				36	36		
	J20				K20	L20	M20	D	148				36	36		
A6	96-1	B6	Z23	Y23	J21	K21	L21	M21	A	161				36	36	
	96-2				J22	K22	L22	M22	B	163				36	36	
	J23				K23	L23	M23	C	165				36	36		
	J24				K24	L24	M24	D	167				36	36		
A7	96-3	B7	Z27	Y27	J25	K25	L25	M25	A	169				36	36	
	96-4				J26	K26	L26	M26	B	171				36	36	
	J27				K27	L27	M27	C	173				36	36		
	J28				K28	L28	M28	D	175				36	36		
A8	96-5	B8	Z31	Y31	J29	K29	L29	M29	A	178				36	36	
	96-6				J30	K30	L30	M30	B	180				36	36	
	J31				K31	L31	M31	C	182				36	36		
	J32				K32	L32	M32	D	184				36	36		
A9	102-1	B9	Z35	Y35	J33	K33	L33	M33	A	186				36	36	
	102-2				J34	K34	L34	M34	B	188				36	36	
	J35				K35	L35	M35	C	190				36	36		
	J36				K36	L36	M36	D	192				36	36		
A10	102-3	B10	Z39	Y39	J37	K37	L37	M37	A	195				36	36	
	102-4				J38	K38	L38	M38	B	197				36	36	
	J39				K39	L39	M39	C	199				36	36		
	J40				K40	L40	M40	D	201	NS	NS	NS	36	36	NS	
A11	102-5	B11	Z43	Y43	J41	K41	L41	M41	A	203	22	26	26	36	36	22
	102-6				J42	K42	L42	M42	B	205	22	26	26	36	36	22
	J43				K43	L43	M43	C	207	22	26	26	36	36	22	
	J44				K44	L44	M44	D	209	22	26	26	36	36	22	





INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	WIRING DIAGRAM 88	8-11-60	800945U			NOTE X PRINT TO ENG. SPEC. NO. 895291	
DESIGN	S-6-60	12-28-61	802878				
DETAIL	S-6-60						
CHECK	8-18-60						
APPRO	8-18-60						603629



INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME				8-11-60	800945U			X PRINT TO ENG. SPEC. NO.	
DESIGN								895291	
DETAIL									
CHECK									
APPRO									
									603631

5-SEP-66 INOZ

SECTION 26
WHITE 180

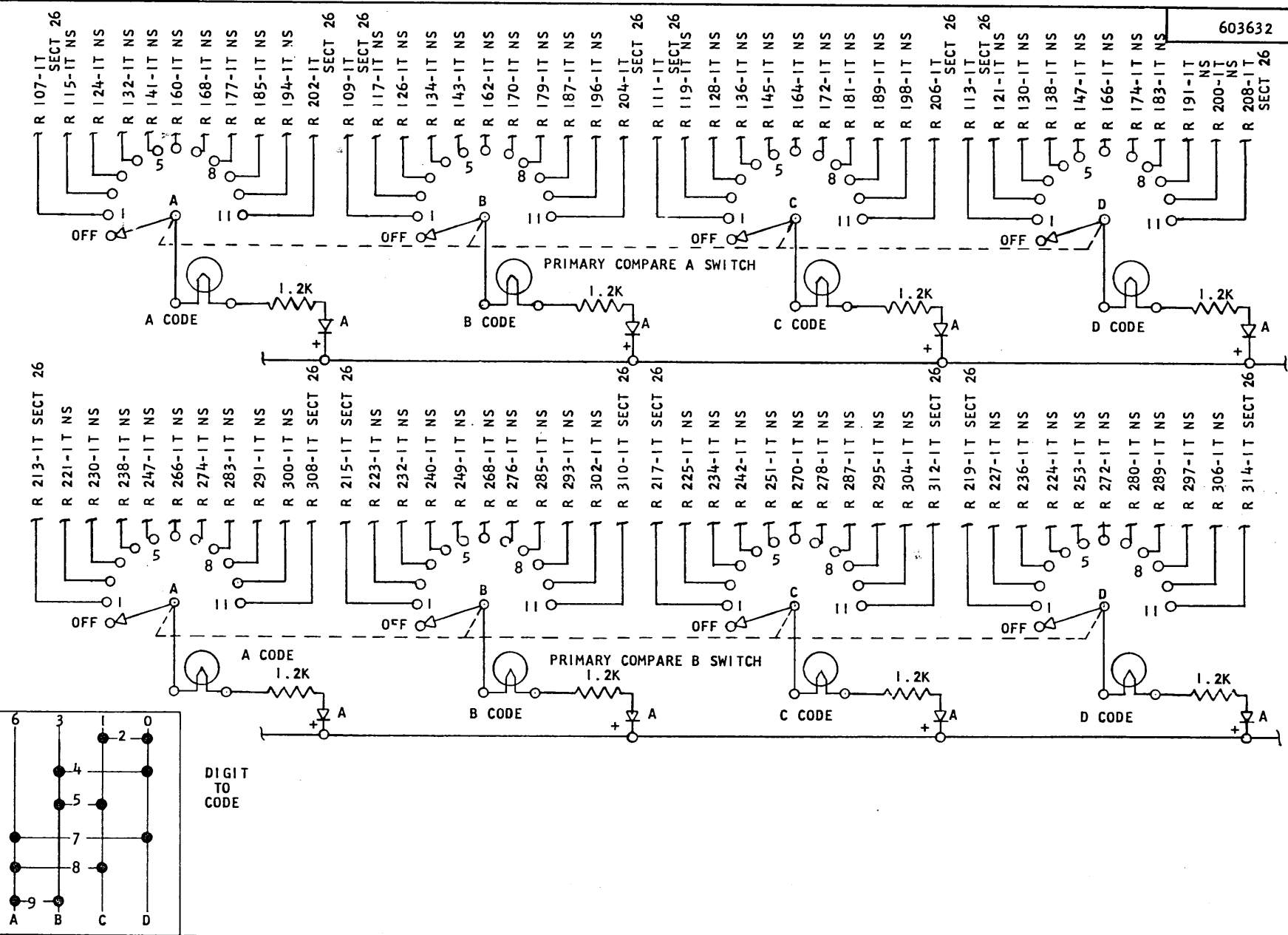
INTERNATIONAL BUSINESS MACHINES CORP.	
NAME	WIRING DIAGRAM 88
DESIGN	5-6-60
DETAIL	5-6-60
CHECK	X-1-14-60 DB 6-7-60
APPRO	1-14-60 CHECK PW 6-8-60

DATE	8-11-60
CHANGE NO.	800945U

DATE	
CHANGE NO.	

NOTE
X PRINT TO ENG. SPEC. NO.
895291

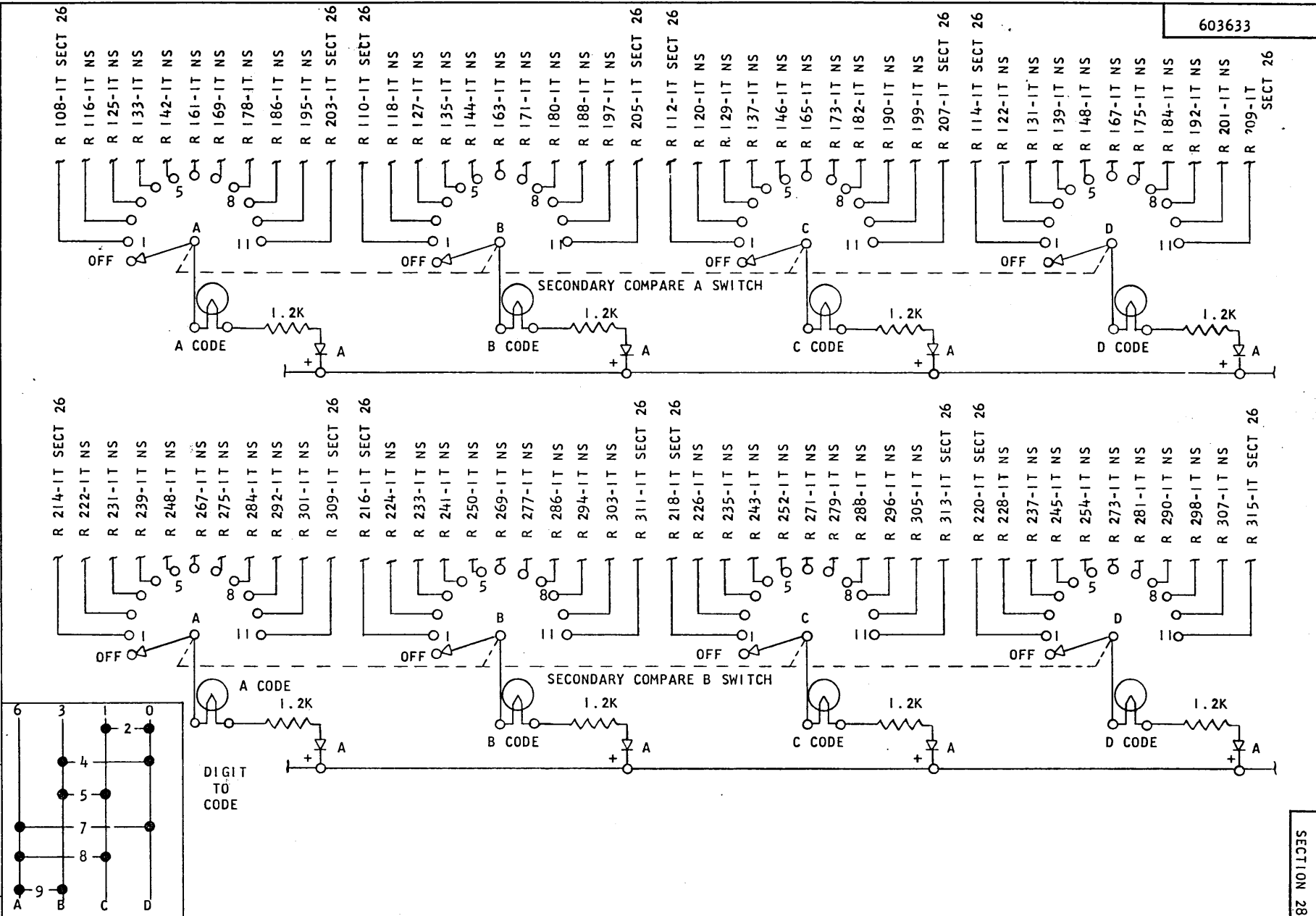
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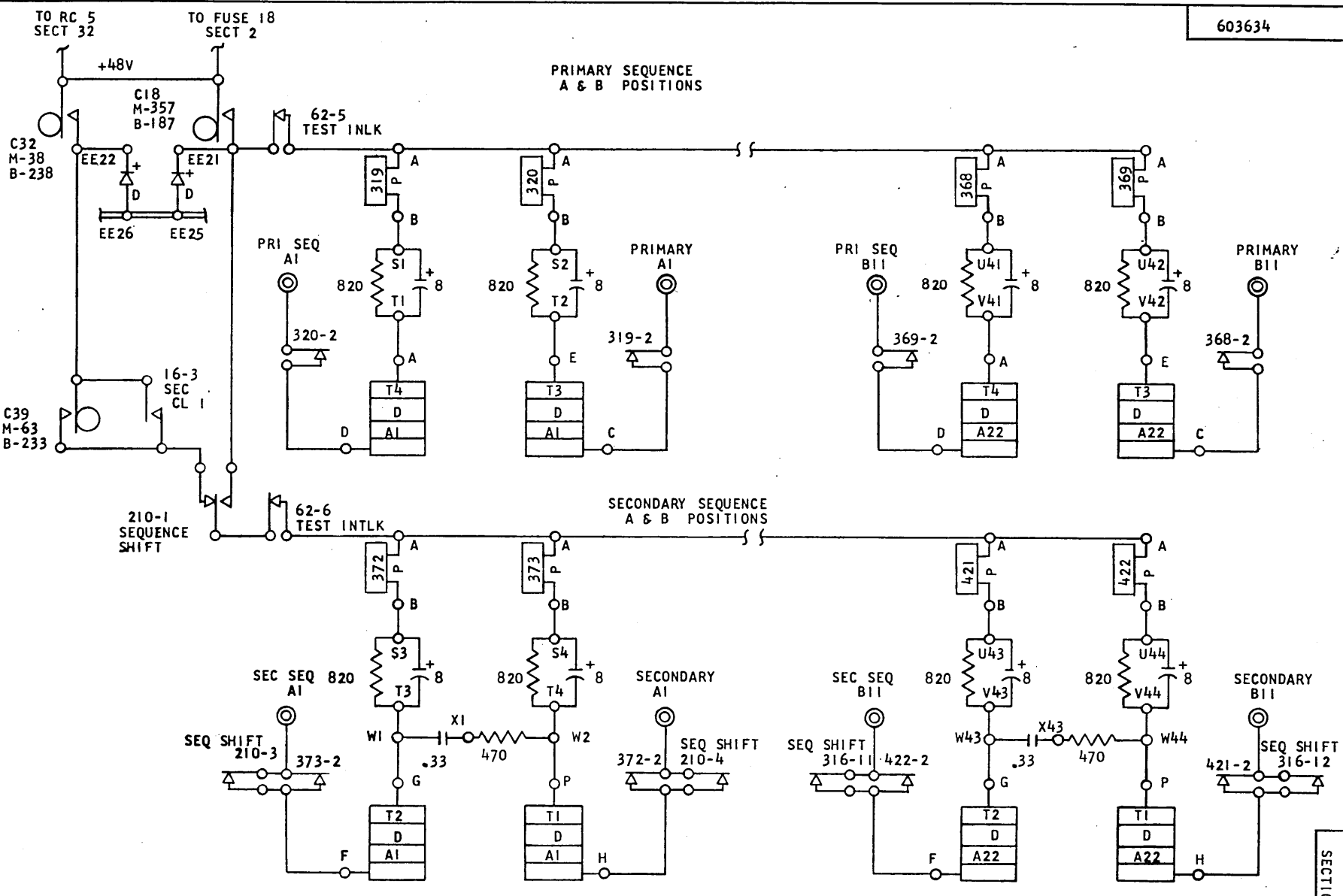
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DESIGN NO. 5-6-24		MODEL 88
NAME INTERNATIONAL BUSINESS MACHINES CORP.		DATE 8-11-60
WIRING DIAGRAM 88		CHANGE NO. 800945U
DETAIL	DRAWN DB 6-7-60	DATE
CHECK	PV 6-8-60	CHANGE NO.
APPROV	PV 6-8-60	DATE
NOTE: X PRINT TO ENG. SPEC. NO. 895291		
DEVELOPMENT NO. 603633		
SECTION 28		

603633



SECTION 28

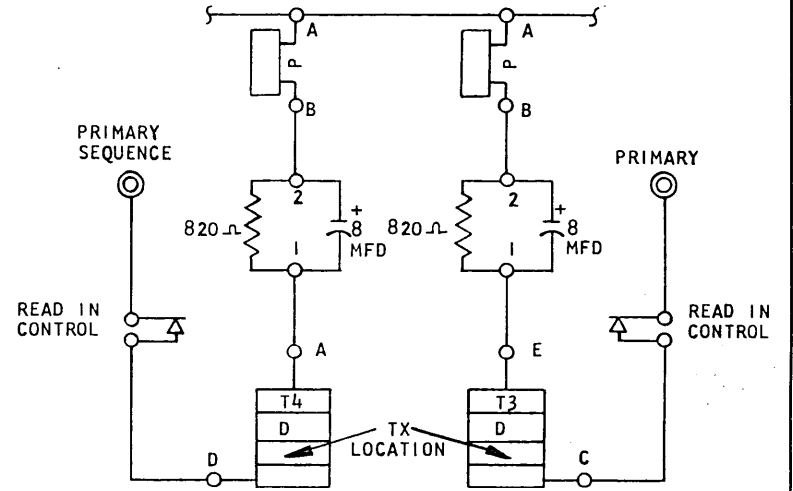


INTERNATIONAL BUSINESS MACHINES CORP.		NAME		DATE		CHANGE NO.		NOTE		DEVELOPMENT NO.	
WIRING DIAGRAM 88		8-11-60		800945U		X PRINT TO ENG. SPEC. NO.		895291		603634	
DESIGN	5-6-60	MODEL	88	DATE	8-11-60	CHANGE NO.	800945U	NOTE	X PRINT TO ENG. SPEC. NO.	DEVELOPMENT NO.	603634
DETAIL	5-6-60			DATE	5-21-62	CHANGE NO.	802662				
CHECK	5-6-60			DATE	8-14-63	CHANGE NO.	805752A				
APPROV	5-6-60			DATE	6-7-60	CHANGE NO.					
				DATE	6-8-60	CHANGE NO.					

PRIMARY SEQUENCE

POSITION	READ IN CONTROL	TX LOC	RC TERMINAL		RELAY NO	POINT LOCATION					
			1	2		P	H	1	2	3	4
A1	PRI SEQ 320-2	A1	T1	S1	319	29	32	32	29	35	
A1	PRI 319-2	A1	T2	S2	320	29	32	32	29	35	35
A2	PRI SEQ 322-2	A2	T5	S5	321	NS	NS	NS	NS	35	
A2	PRI 321-2	A2	T6	S6	322					35	35
A3	PRI SEQ 324-2	A3	T9	S9	323					35	
A3	PRI 323-2	A3	T10	S10	324					35	35
A4	PRI SEQ 326-2	A4	T13	S13	325					35	
A4	PRI 325-2	A4	T14	S14	326					35	35
A5	PRI SEQ 329-2	A5	T17	S17	328					35	
A5	PRI 328-2	A5	T18	S18	329					35	35
A6	PRI SEQ 331-2	A6	T21	S21	330					35	
A6	PRI 330-2	A6	T22	S22	331					35	35
A7	PRI SEQ 333-2	A7	T25	S25	332					35	
A7	PRI 332-2	A7	T26	S26	333					35	35
A8	PRI SEQ 336-2	A8	T29	S29	335					35	
A8	PRI 335-2	A8	T30	S30	336					35	35
A9	PRI SEQ 338-2	A9	T33	S33	337					35	
A9	PRI 337-2	A9	T34	S34	338					35	35
A10	PRI SEQ 340-2	A10	T37	S37	339					35	
A10	PRI 339-2	A10	T38	S38	340					35	35
A11	PRI SEQ 343-2	A11	T41	S41	342					35	
A11	PRI 342-2	A11	T42	S42	343					35	35
B1	PRI SEQ 346-2	A12	V1	U1	345					35	
B1	PRI 345-2	A12	V2	U2	346					35	35
B2	PRI SEQ 348-2	A13	V5	U5	347					35	
B2	PRI 347-2	A13	V6	U6	348					35	35
B3	PRI SEQ 350-2	A14	V9	U9	349					35	
B3	PRI 349-2	A14	V10	U10	350					35	35
B4	PRI SEQ 352-2	A15	V13	U13	351					35	
B4	PRI 351-2	A15	V14	U14	352					35	35
B5	PRI SEQ 355-2	A16	V17	U17	354					35	
B5	PRI 354-2	A16	V18	U18	355					35	35
B6	PRI SEQ 357-2	A17	V21	U21	356					35	
B6	PRI 356-2	A17	V22	U22	357					35	35
B7	PRI SEQ 359-2	A18	V25	U25	358					35	
B7	PRI 358-2	A18	V26	U26	359					35	35
B8	PRI SEQ 362-2	A19	V29	U29	361					35	
B8	PRI 361-2	A19	V30	U30	362					35	35
B9	PRI SEQ 364-2	A20	V33	U33	363					35	
B9	PRI 363-2	A20	V34	U34	364					35	35
B10	PRI SEQ 366-2	A21	V37	U37	365					35	
B10	PRI 365-2	A21	V38	U38	366	NS	NS	NS	NS	35	35
B11	PRI SEQ 369-2	A22	V41	U41	368	29	32	32	29	35	
B11	PRI 368-2	A22	V42	U42	369	29	32	32	29	35	35

PRIMARY SEQUENCE

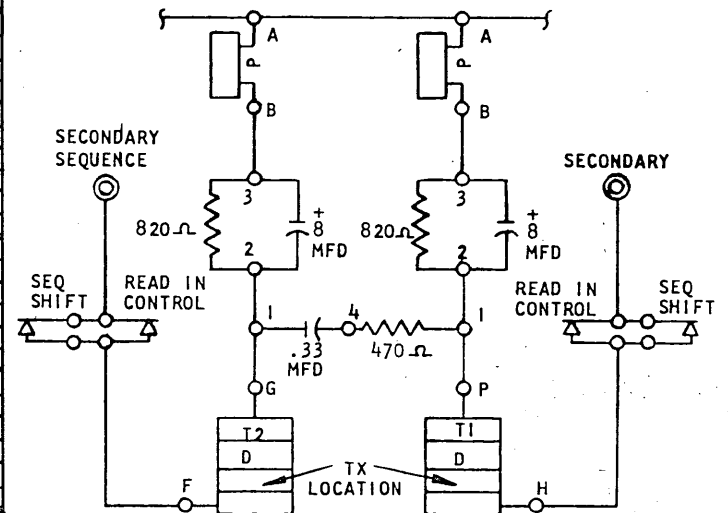


INTERNATIONAL BUSINESS MACHINES CORP.
 NAME: WIRING DIAGRAM 88
 DESIGN: S-660 MODEL: 88
 CHECK: S-660 DRAW: DMB 6-7-60
 APPRO: K-1260 CHECK: PW 6-8-60
 DATE: 8-11-60
 CHANGE NO.: 8C0545U
 DATE:
 CHANGE NO.:
 DATE:
 CHANGE NO.:
 NOTE: X PRINT TO ENG. SPEC. NO. 895291
 DEVELOPMENT NO.: 603635
 SECTION 30

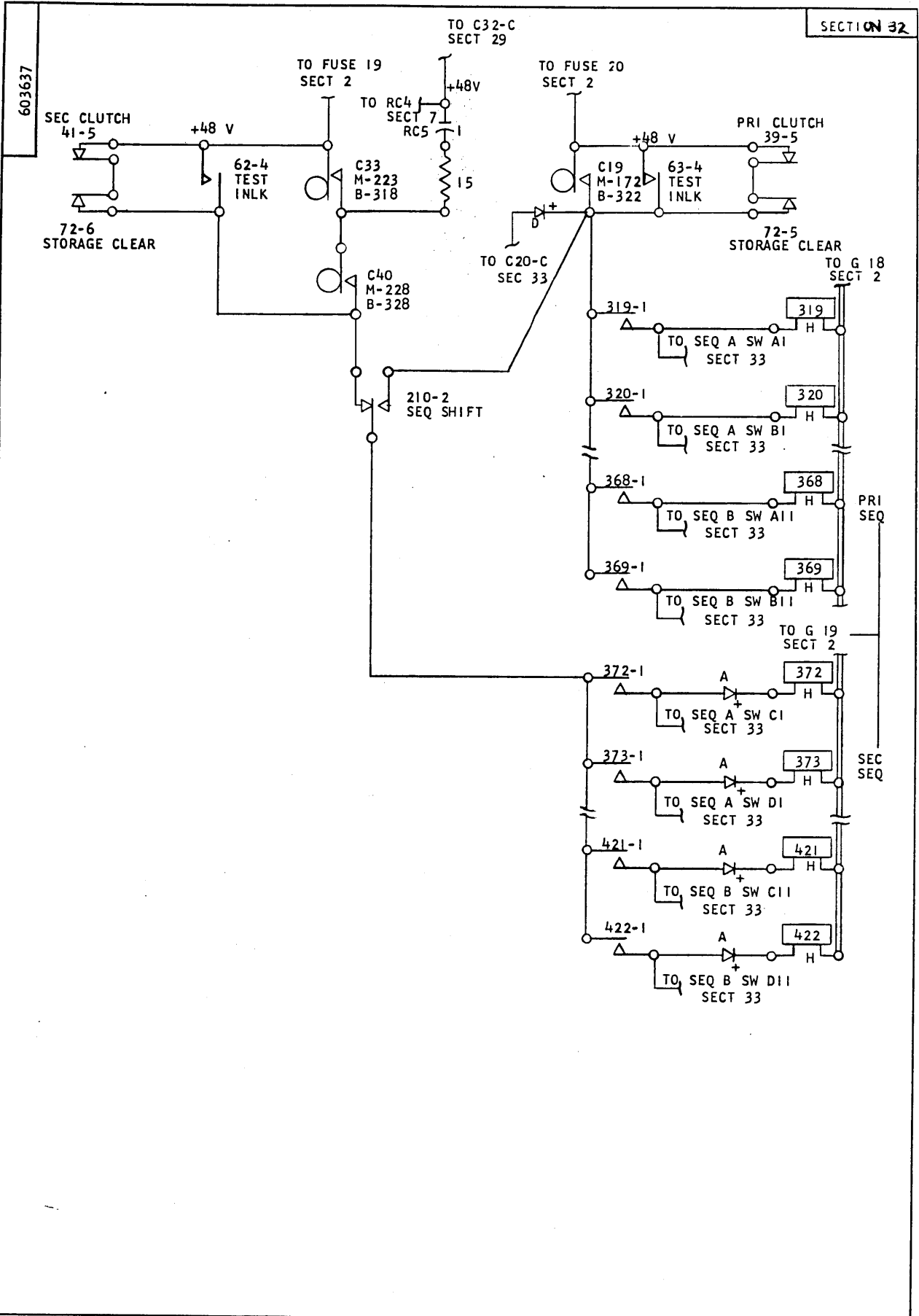
SECONDARY SEQUENCE

POSITION	READ IN CONTROL	SEQ SHIFT	TX LOC	R-C TERMINAL				RELAY NO.	POINT LOCATION						
				1	2	3	4		P	H	I	2	3	4	
A1	SEC SEQ	373-2	210-3	A1	W1	T3	S3	X1	372	29	32	32	29	34	
	SEC	372-2	210-4		W2	T4	S4		373	29	32	32	29	34	34
A2	SEC SEQ	375-2	210-5	A2	W5	T7	S7	X5	374	NS	NS	NS	NS	34	
	SEC	374-2	210-6		W6	T8	S8		375						34
A3	SEC SEQ	377-2	210-7	A3	W9	T11	S11	X9	376					34	
	SEC	376-2	210-8		W10	T12	S12		377						34
A4	SEC SEQ	379-2	210-9	A4	W13	T15	S15	X13	378					34	
	SEC	378-2	210-10		W14	T16	S16		379						34
A5	SEC SEQ	382-2	210-11	A5	W17	T19	S19	X17	381					34	
	SEC	381-2	210-12		W18	T20	S20		382						34
A6	SEC SEQ	384-2	263-1	A6	W21	T23	S23	X21	383					34	
	SEC	383-2	263-2		W22	T24	S24		384						34
A7	SEC SEQ	386-2	263-3	A7	W25	T27	S27	X25	385					34	
	SEC	385-2	263-4		W26	T28	S28		386						34
A8	SEC SEQ	389-2	263-5	A8	W29	T31	S31	X29	388					34	
	SEC	388-2	263-6		W30	T32	S32		389						34
A9	SEC SEQ	391-2	316-1	A9	W33	T35	S35	X33	390					34	
	SEC	390-2	316-2		W34	T36	S36		391						34
A10	SEC SEQ	393-2	316-3	A10	W37	T39	S39	X37	392					34	
	SEC	392-2	316-4		W38	T40	S40		393						34
A11	SEC SEQ	396-2	316-5	A11	W41	T43	S43	X41	395					34	
	SEC	395-2	316-6		W42	T44	S44		396						34
B1	SEC SEQ	399-2	260-1	A12	W3	V3	U3	X3	398					34	
	SEC	398-2	260-2		W4	V4	U4		399						34
B2	SEC SEQ	401-2	260-3	A13	W7	V7	U7	X7	400					34	
	SEC	400-2	260-4		W8	V8	U8		401						34
B3	SEC SEQ	403-2	260-5	A14	W11	V11	U11	X11	402					34	
	SEC	402-2	260-6		W12	V12	U12		403						34
B4	SEC SEQ	405-2	260-7	A15	W15	V15	U15	X15	404					34	
	SEC	404-2	260-8		W16	V16	U16		405						34
B5	SEC SEQ	408-2	260-9	A16	W19	V19	U19	X19	407					34	
	SEC	407-2	260-10		W20	V20	U20		408						34
B6	SEC SEQ	410-2	263-7	A17	W23	V23	U23	X23	409					34	
	SEC	409-2	263-8		W24	V24	U24		410						34
B7	SEC SEQ	412-2	263-9	A18	W27	V27	U27	X27	411					34	
	SEC	411-2	263-10		W28	V28	U28		412						34
B8	SEC SEQ	415-2	263-11	A19	W31	V31	U31	X31	414					34	
	SEC	414-2	263-12		W32	V32	U32		415						34
B9	SEC SEQ	417-2	316-7	A20	W35	V35	U35	X35	416					34	
	SEC	416-2	316-8		W36	V36	U36		417						34
B10	SEC SEQ	419-2	316-9	A21	W39	V39	U39	X39	418					34	
	SEC	418-2	316-10		W40	V40	U40		419	NS	NS	NS	NS	34	34
B11	SEC SEQ	422-2	316-11	A22	W43	V43	U43	X43	421	29	32	32	29	34	
	SEC	421-2	316-12		W44	V44	U44		422	29	32	32	29	34	34

SECONDARY SEQUENCE



INTERNATIONAL BUSINESS MACHINES CORP.
 NAME: WIRING DIAGRAM 88
 MODEL: 88
 DATE: 8-11-60
 CHANGE NO.: 800945U
 DATE: 8-14-63
 CHANGE NO.: 805752A
 NOTE: X PRINT TO ENG. SEC. NO. 895291
 DEVELOPMENT NO.: 603636
 SECTION 31



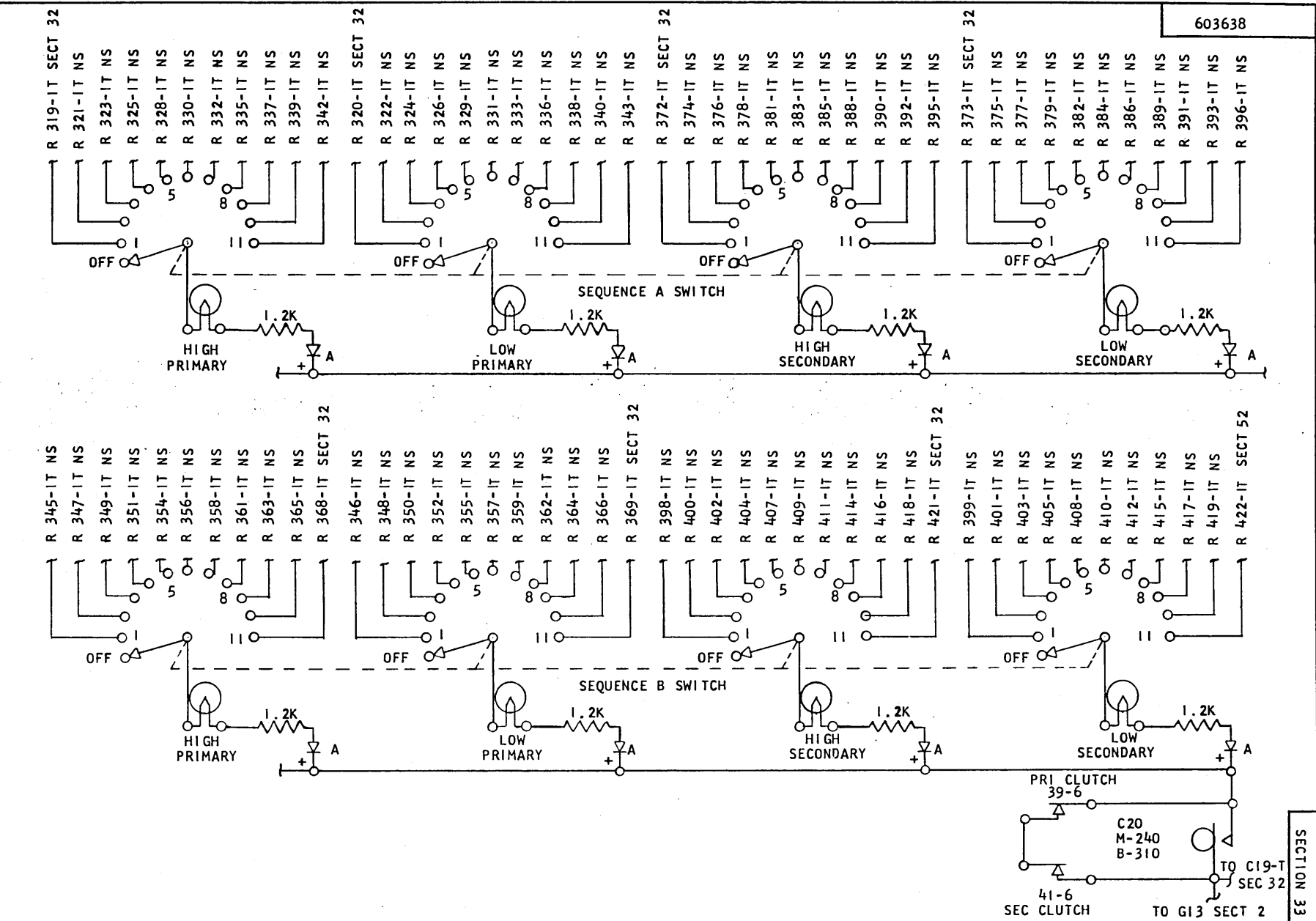
SECTION 32

603637

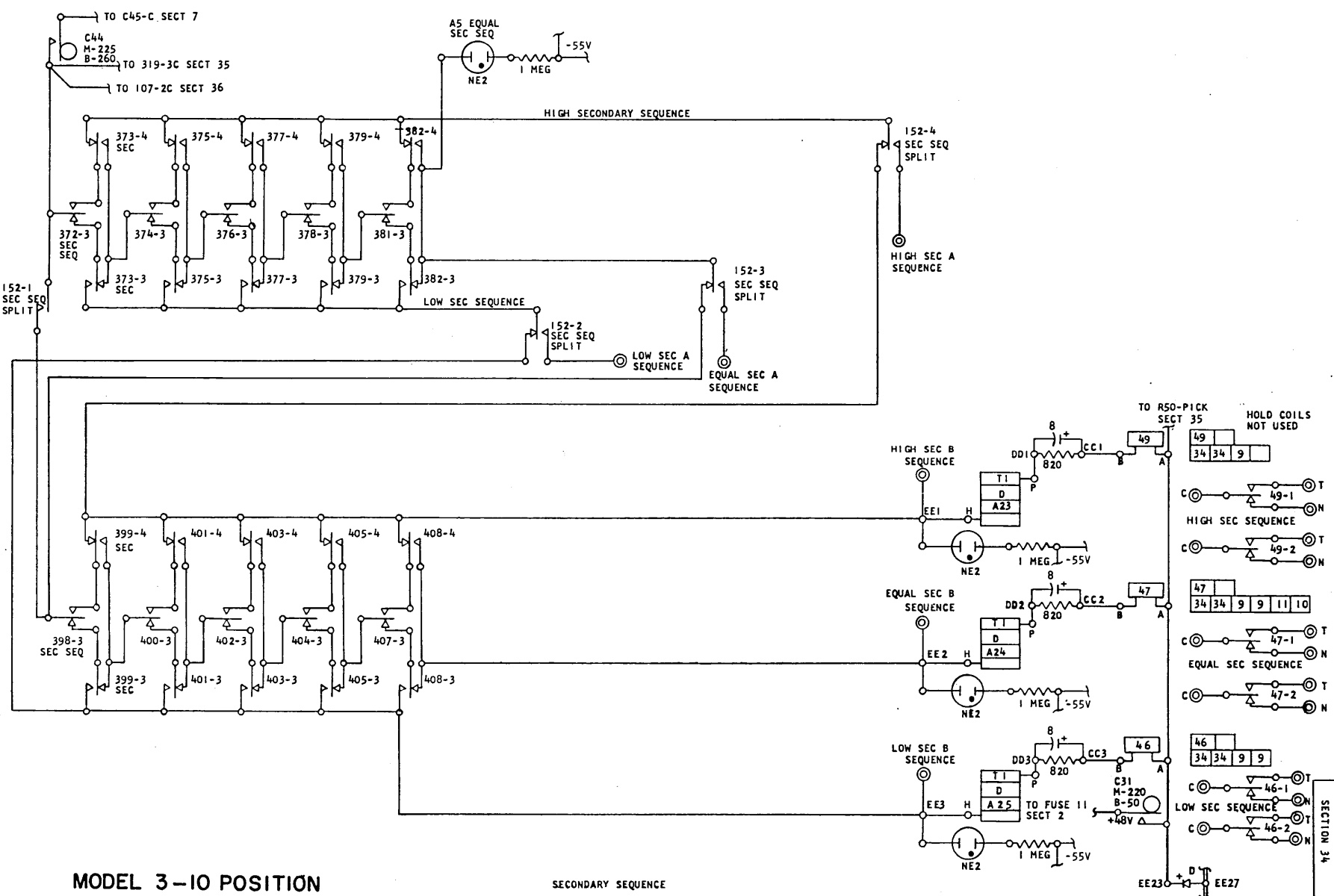
INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE X PRINT TO ENG. SPEC. NO. 895291	DEVELOPMENT NO.
NAME	WIRING DIAGRAM 88	8-11-60	800945U				
DESIGN	<i>SM</i> 5-6-60	11-17-60	801831B				
DETAIL	<i>SM</i> 5-6-60						
CHECK	<i>HCN</i> 8-18-60						
APPRO	<i>HCN</i> 8-18-60						
							603637

SECTION 32

DESIGN		MODEL		DATE		CHANGE NO.		DATE		CHANGE NO.		NOTE		DEVELOPMENT NO.	
8-1-60		88		8-11-60		800945U		8-11-60		801831B		X PRINT TO ENG. SPEC. NO. 895291		603638	
DETAIL		DRAW		DB		PW		CHECK		CHECK		CHECK		CHECK	
8-1-60		8-1-60		8-1-60		8-1-60		8-1-60		8-1-60		8-1-60		8-1-60	
APP'D		CHECK		CHECK		CHECK		CHECK		CHECK		CHECK		CHECK	
8-1-60		8-1-60		8-1-60		8-1-60		8-1-60		8-1-60		8-1-60		8-1-60	



DESIGN	5-4-60	MODEL	88
DETAIL	5-1-60	DATE	8-11-60
CHECK	8-18-60	DWG	6-7-60
APPRO	8-18-60	PWM	6-8-60
NAME	INTERNATIONAL BUSINESS MACHINES CORP.		
WIRING DIAGRAM	88		
CHANGE NO.	800945U	DATE	8-11-60
CHANGE NO.	805087	DATE	4-23-63
NOTE	X PRINT 'C' ENG. SPEC. NO. 895291		
DEPARTMENT NO.	603639		



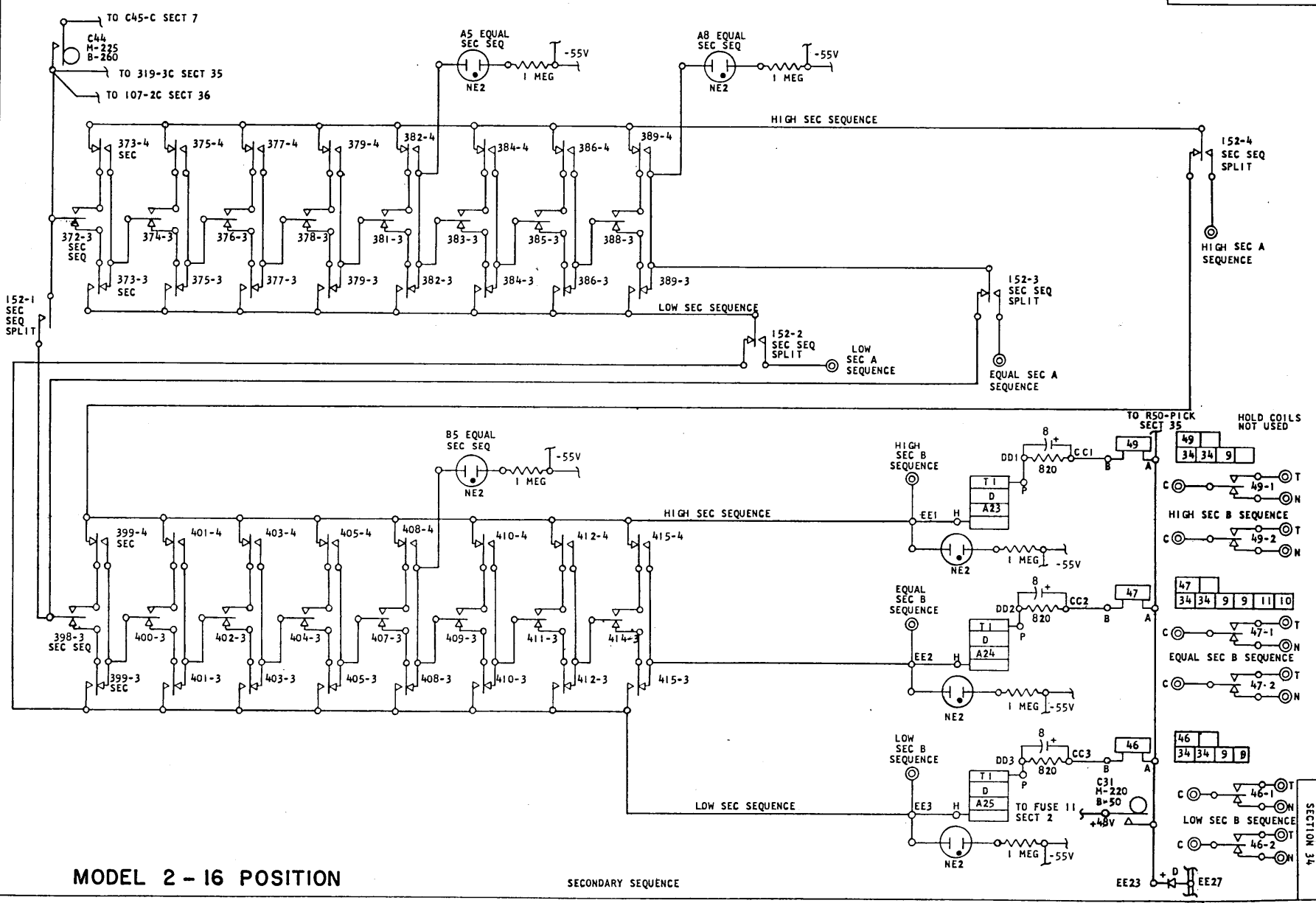
MODEL 3-10 POSITION

SECONDARY SEQUENCE

SECTION 34

603643

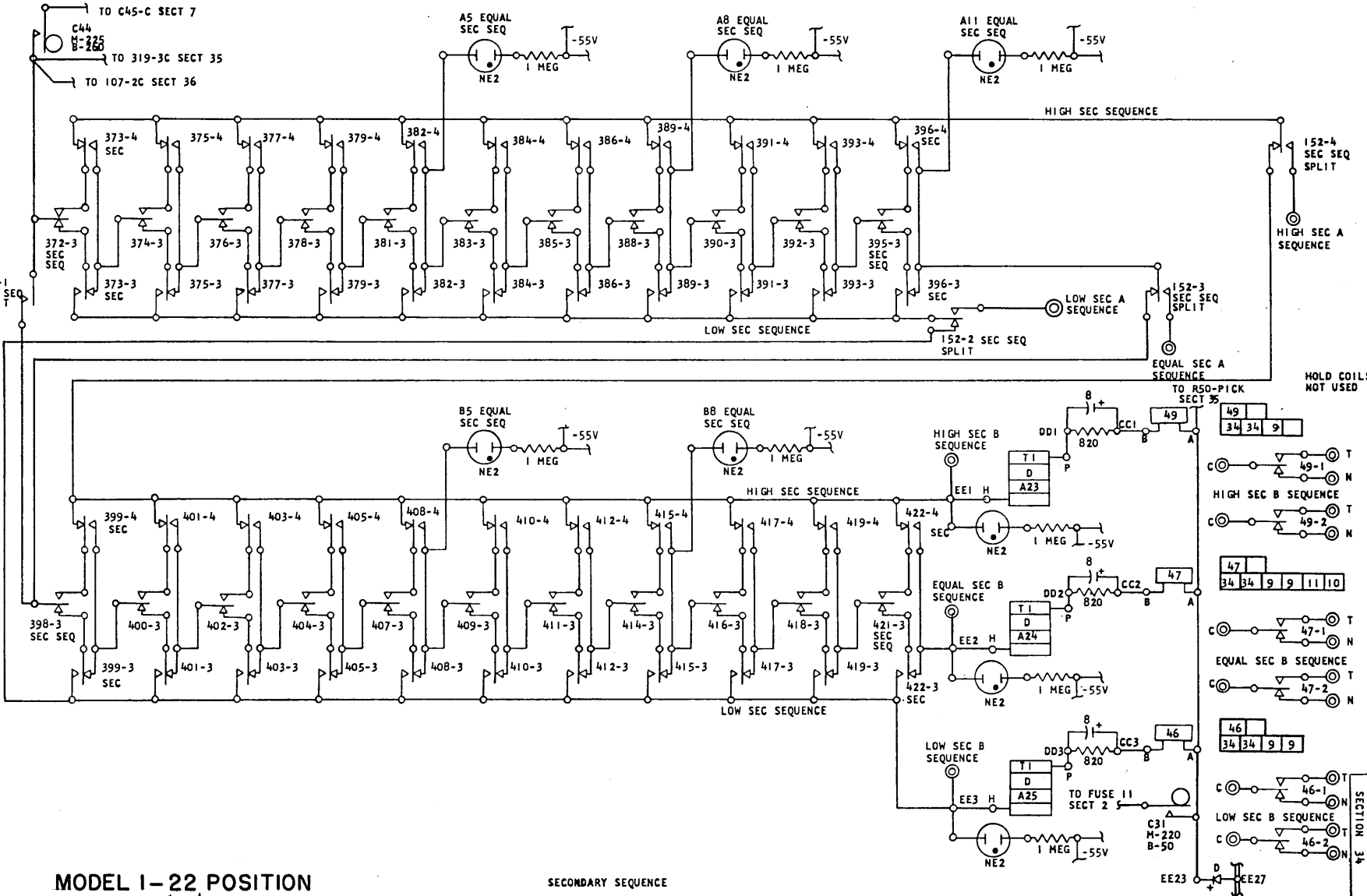
INTERNATIONAL BUSINESS MACHINES CORP.			NAME	DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
WIRING DIAGRAM 88			8-11-60	800945U	8-23-63	805087	X PRINT TO ENG. SPEC.	603643	
DESIGN	CHKD	APPD	DESIGN	CHKD	APPD	DESIGN	CHKD	APPD	
5-4-60	5-4-60	5-18-60	MOOR	BB	1-23-63	805087			
8-18-60	8-18-60	8-18-60	DNB	PMW	6-8-60				



MODEL 2-16 POSITION

SECONDARY SEQUENCE

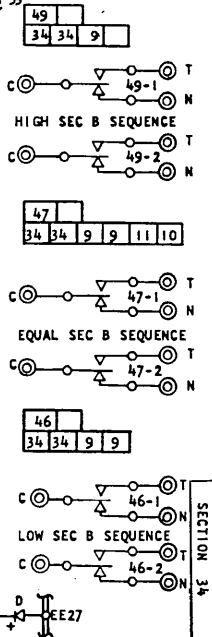
SECTION 34



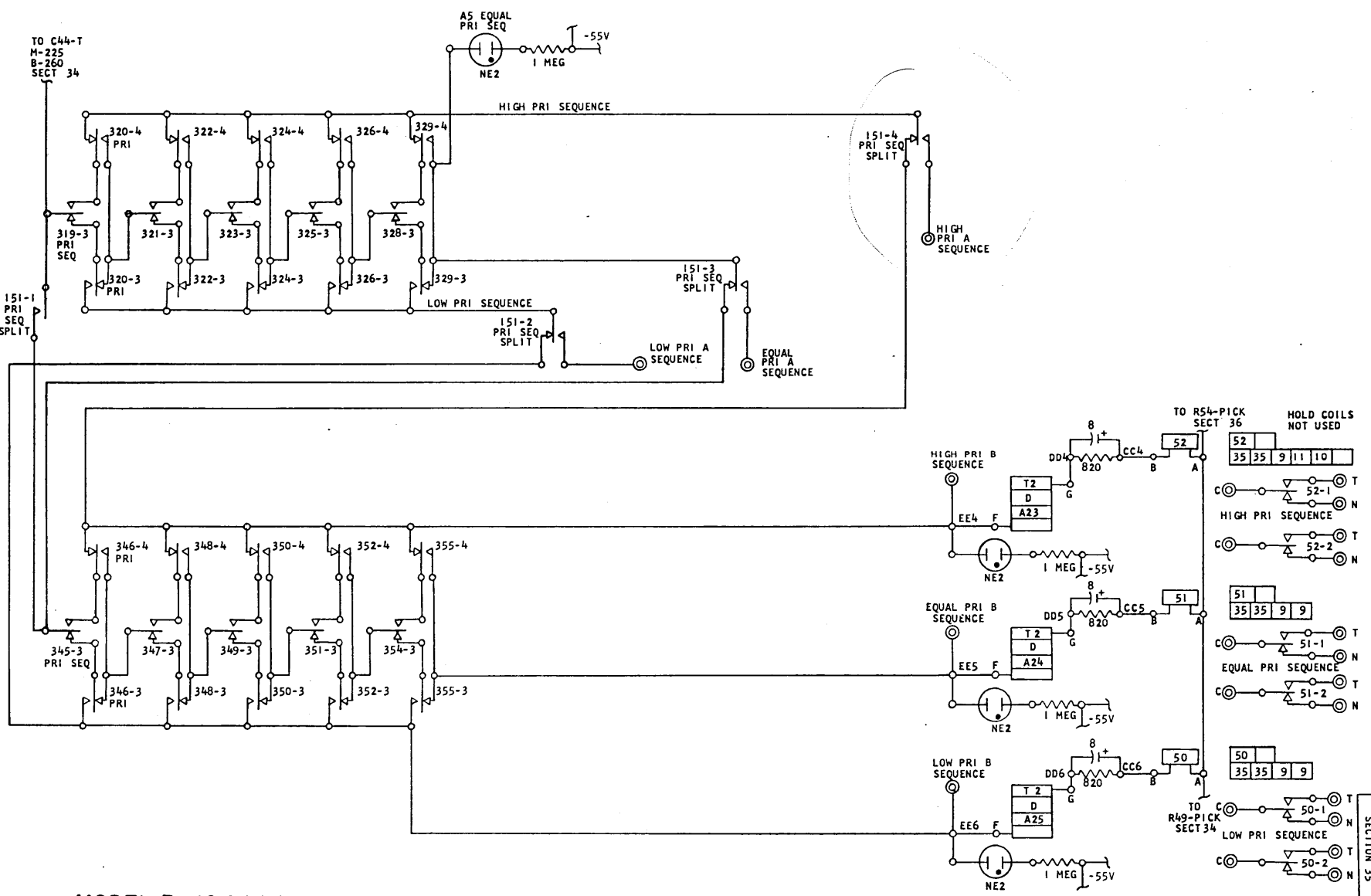
MODEL 1-22 POSITION

SECONDARY SEQUENCE

INTERNATIONAL BUSINESS MACHINES CORP.		NAME		DATE		CHANGE NO.	
WIRING DIAGRAM 88		8-11-60		8-11-60		800945U	
DESIGN 54-40		4-23-63		805087		NOTE: X PRINT TO ENG SPEC.	
DETAIL 54-40							
CHECK 54-40							
DRAW 54-40							
PM 6-8-60							
APPRO 54-40							
CHECK 54-40							
DEV							
603647							
SECTION 34							

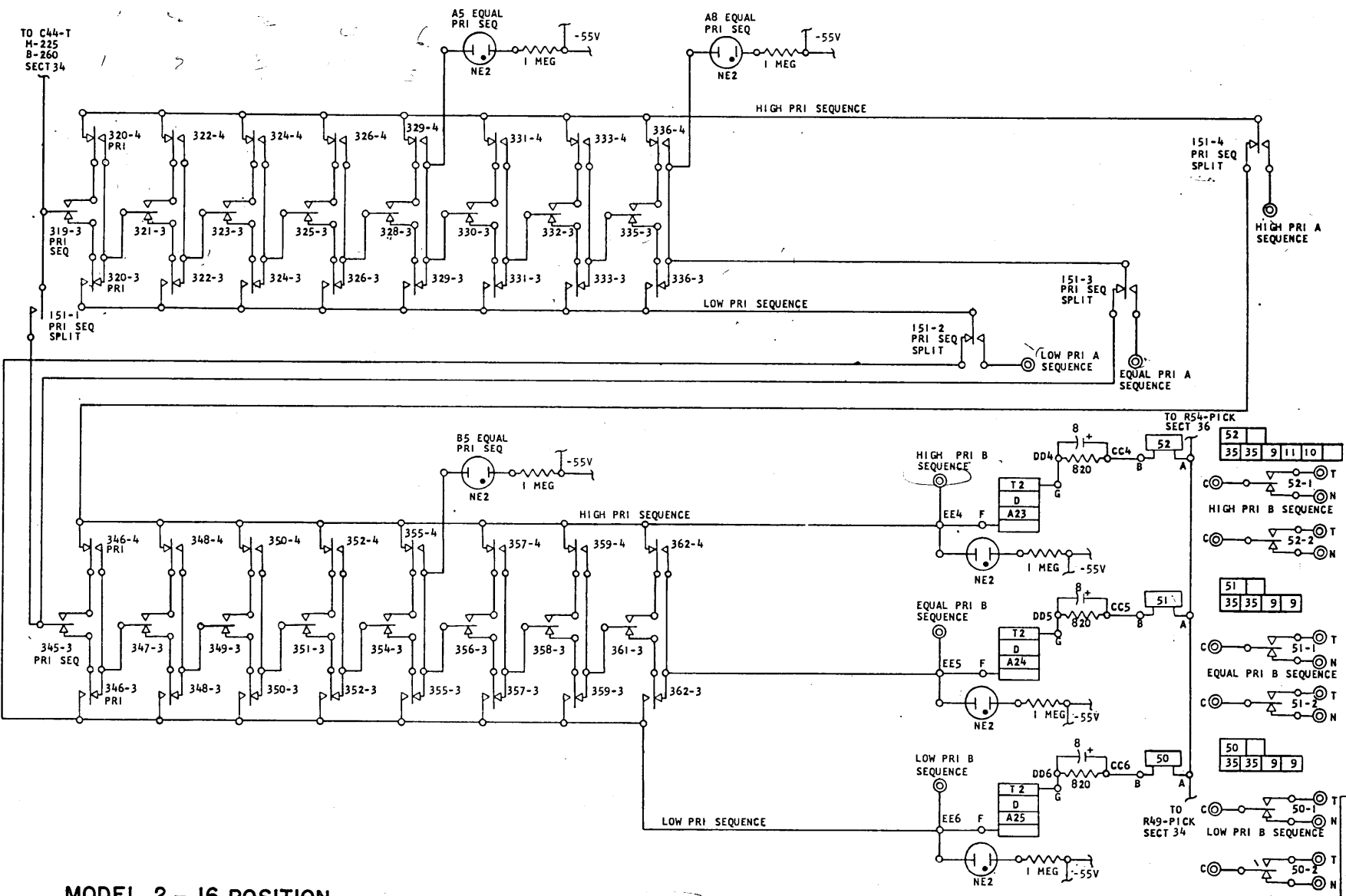


DESIGN				NAME			
DESIGN	57660	MODEL	88	INTERNATIONAL BUSINESS MACHINES CORP.			
REVISION	57660			WIRING DIAGRAM 88			
CHECK	8-18-60	DATE	8-11-60	DATE			
APPRO	8-18-60	BY	DMB	CHANGE NO.			
		CHECK	PMW	805087			
				DATE			
				CHANGE NO.			
				NOTE			
				X PRINT TO ENG. SEC.			
				NO. 895291			
				DEVELOPMENT NO.			
				603640			
SECTION 35							



MODEL 3 - 10 POSITION

*PRIMARY SEQUENCE

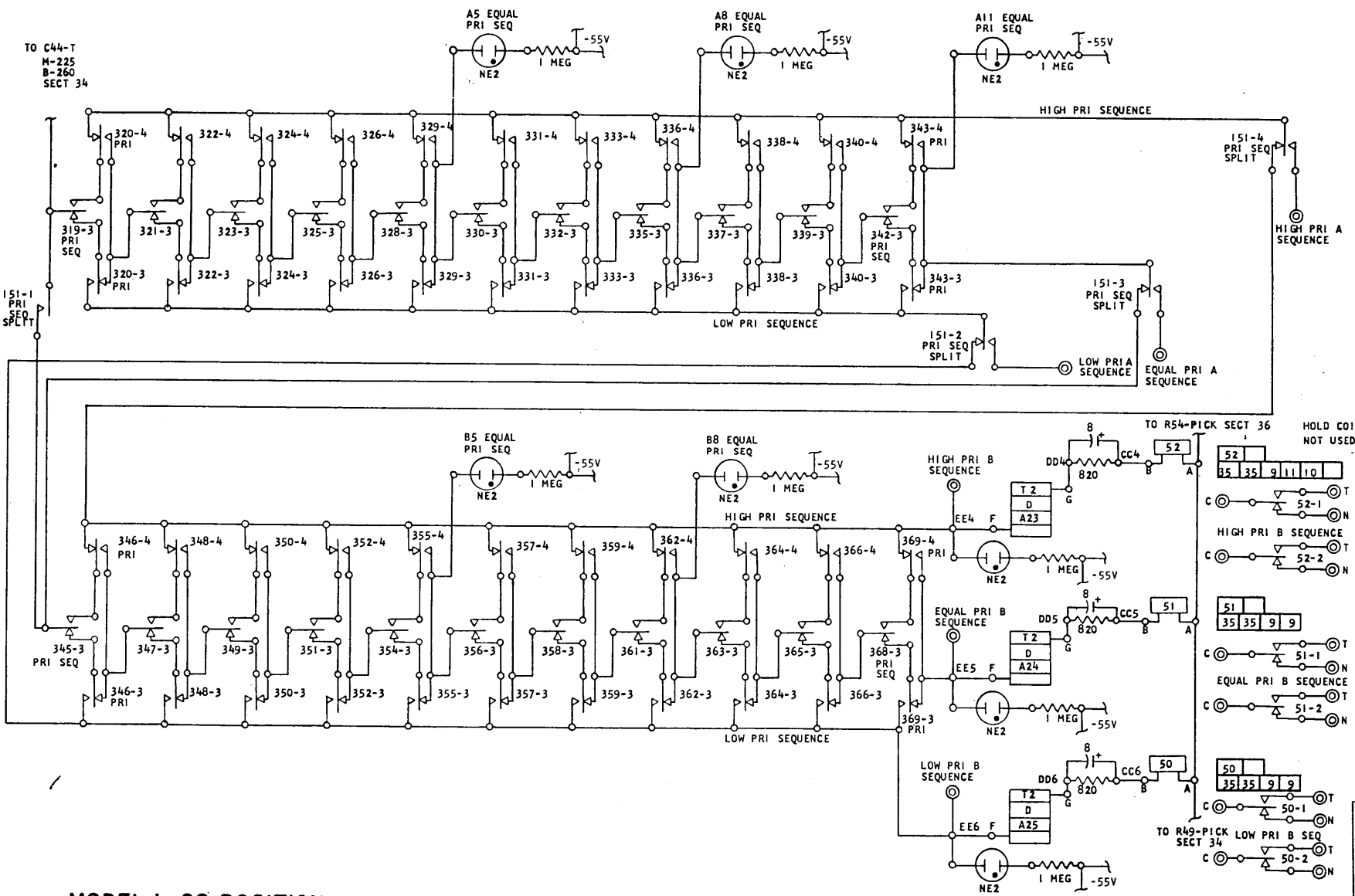


MODEL 2 - 16 POSITION

PRIMARY SEQUENCE

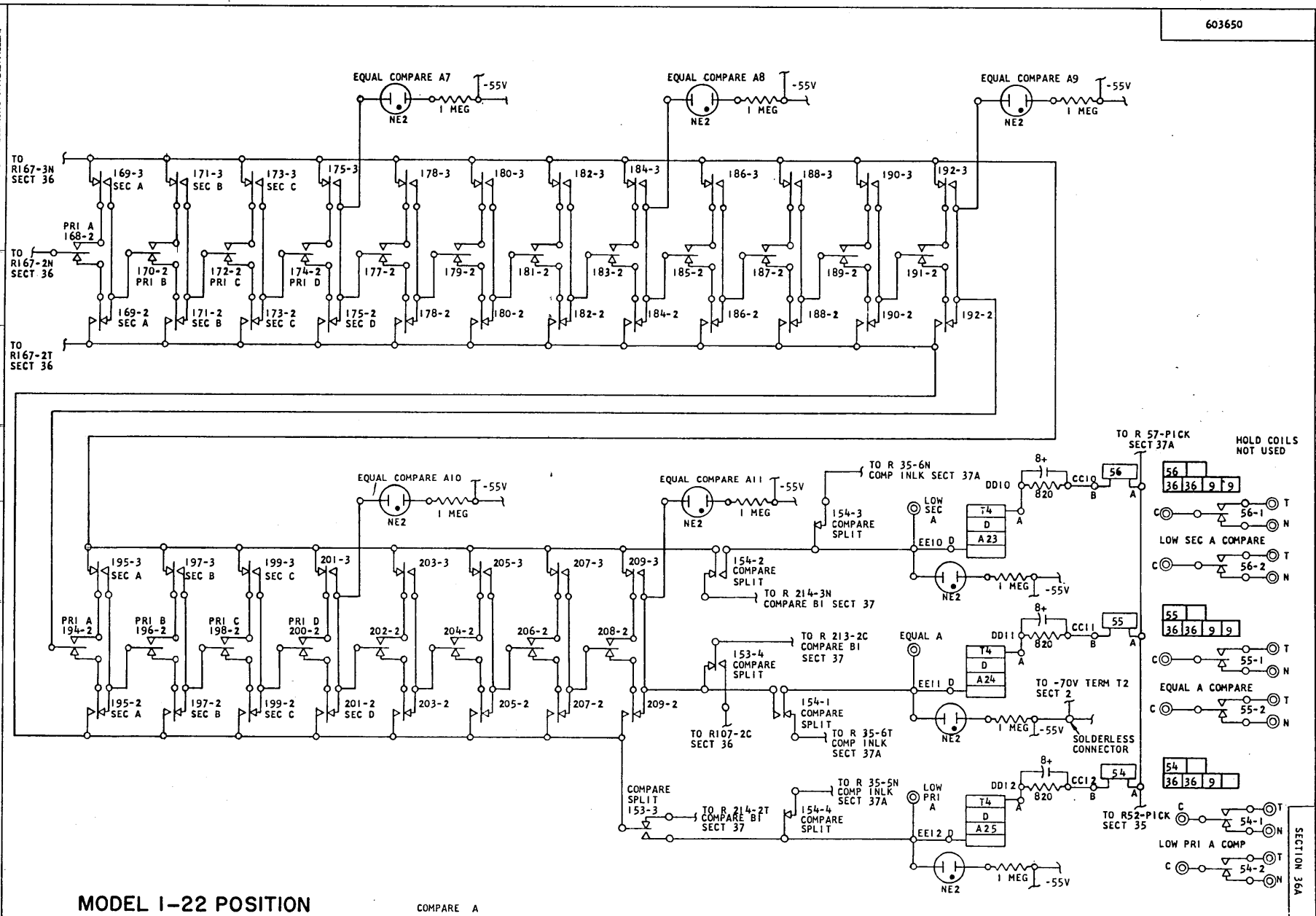
SECTION 35

INTERNATIONAL BUSINESS MACHINES CORP.		NAME	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
WIRING DIAGRAM 88		8-11-60	800945U		X PRINT TO ENG SPEC	
DESIGN	56-60	MODEL	88			
DETAIL	56-60					
CHECK	6-18-60	DRAWN	DHB	6-7-60		
APPRO	6-8-60	CHECK	PMW	6-8-60		
603644						
SECTION 35						



INTERNATIONAL BUSINESS MACHINES CORP.		NAME		DATE		CHANGE NO.		DATE		CHANGE NO.		NOTE	
WARNING DIAGRAM 88		8-11-60		8-11-60		800945U		8-11-61		802145		X PRINT TO ENG. SPEC.	
DESIGN		1-23-63		805087									
CHECK													
APPRO													
603648		SECTION 35		MODEL I-22 POSITION		PRIMARY SEQUENCE		SECTION 35		SECTION 35		SECTION 35	

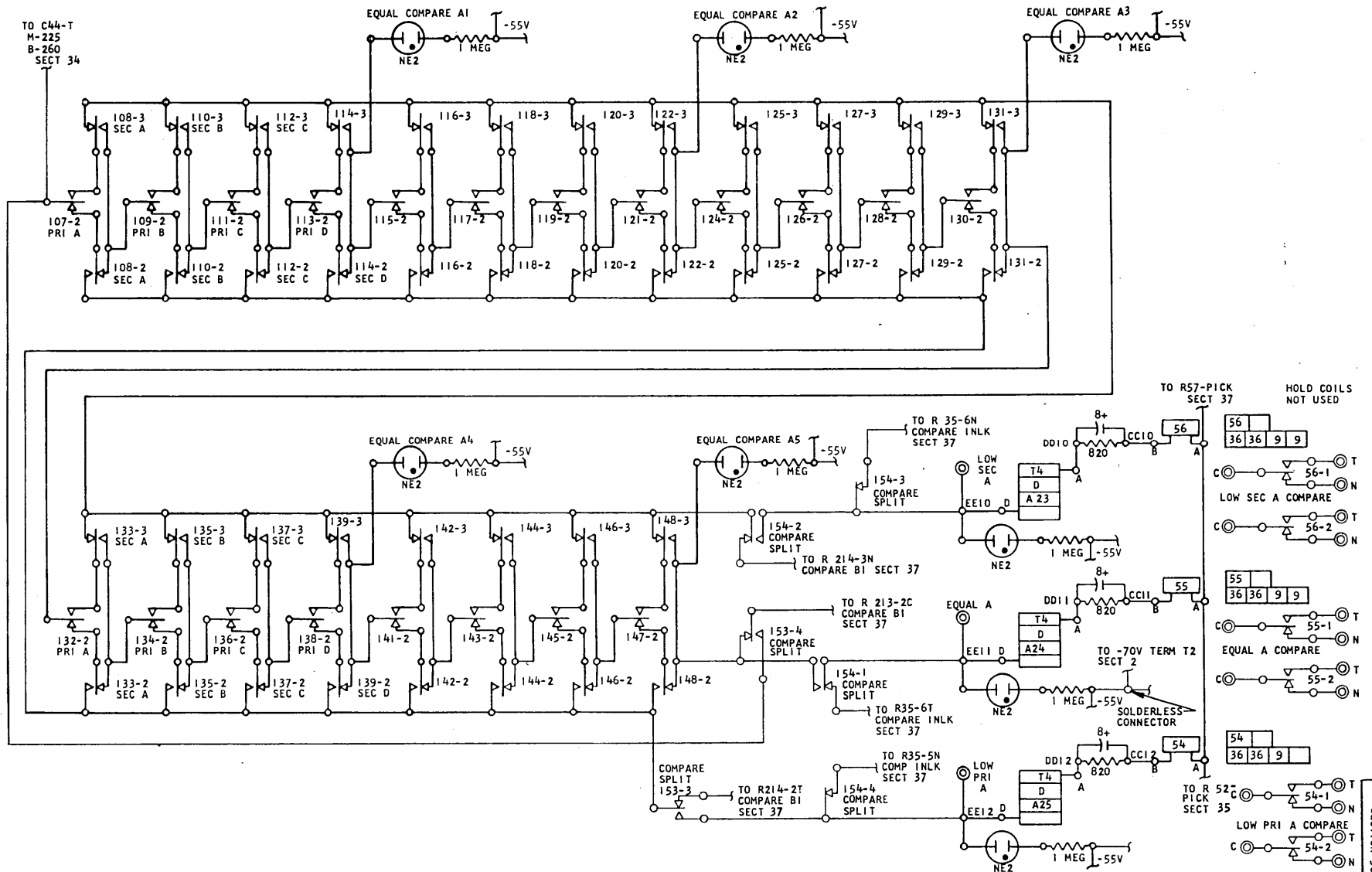
DESIGN	5-4-60	MOORE	BB
DETAIL	5-4-60		
CHECK	8-18-60	DAW	DB
APPRO	8-18-60	CHEK	PM
DATE	8-11-60	CHANGE NO.	800945 U
DATE	10-17-60	CHANGE NO.	801832
DATE	1-23-63	CHANGE NO.	805087
DATE		CHANGE NO.	
DATE		CHANGE NO.	
DATE		CHANGE NO.	
NOTE	X PRINT TO ENG SEC.		
NOTE	NO. 895291		
DEVELOPMENT NO.	603650		



MODEL I-22 POSITION

COMPARE A

SECTION 36A



MODEL 3-10 POSITION

COMPARE A

SECTION 36

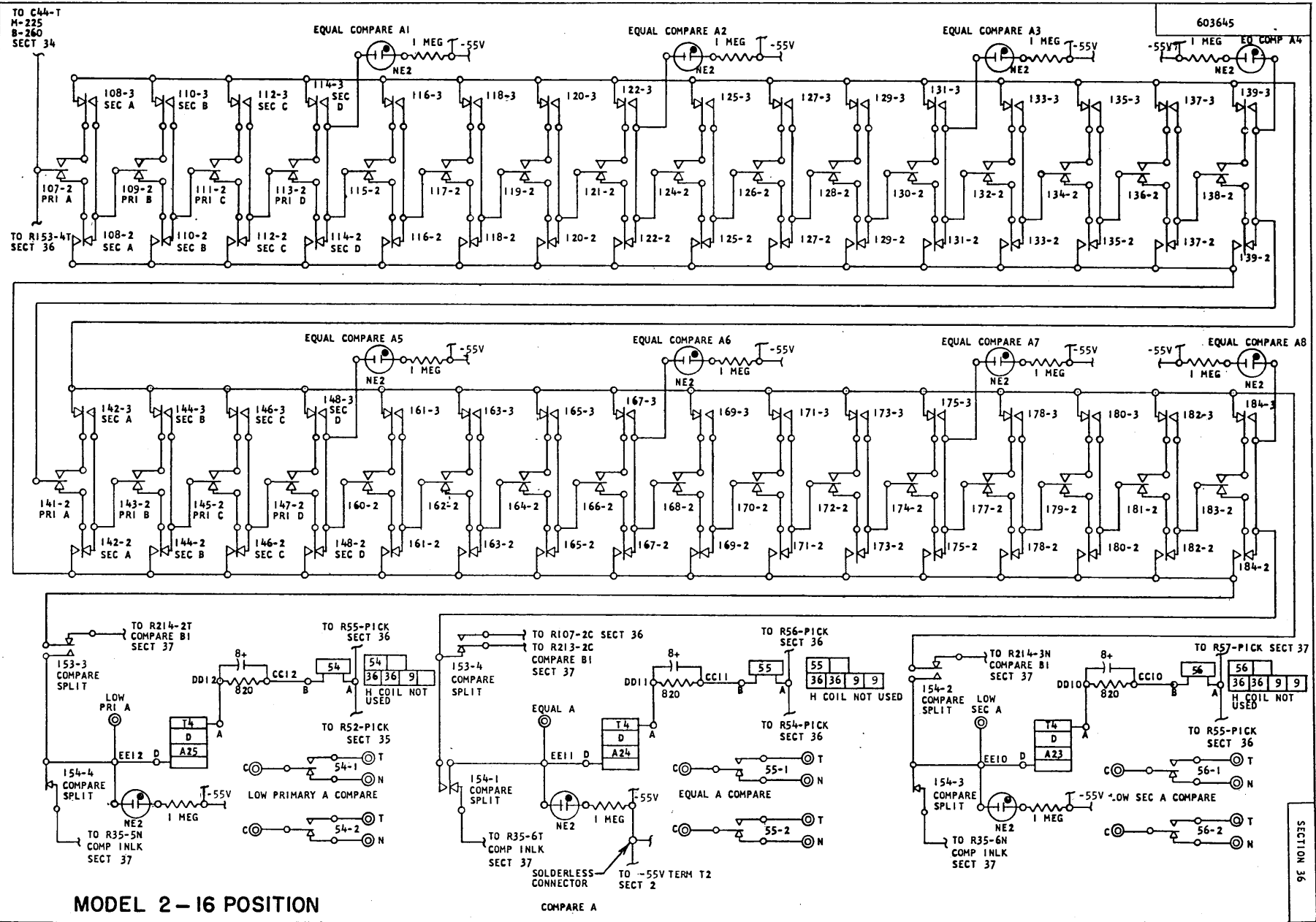
DESIGN		DATE	CHANGE NO.
CHECK		DATE	CHANGE NO.
APPRO		DATE	CHANGE NO.
NOTE X REFER TO ENG SPEC NO. 395291			
DEVELOPMENT NO.			

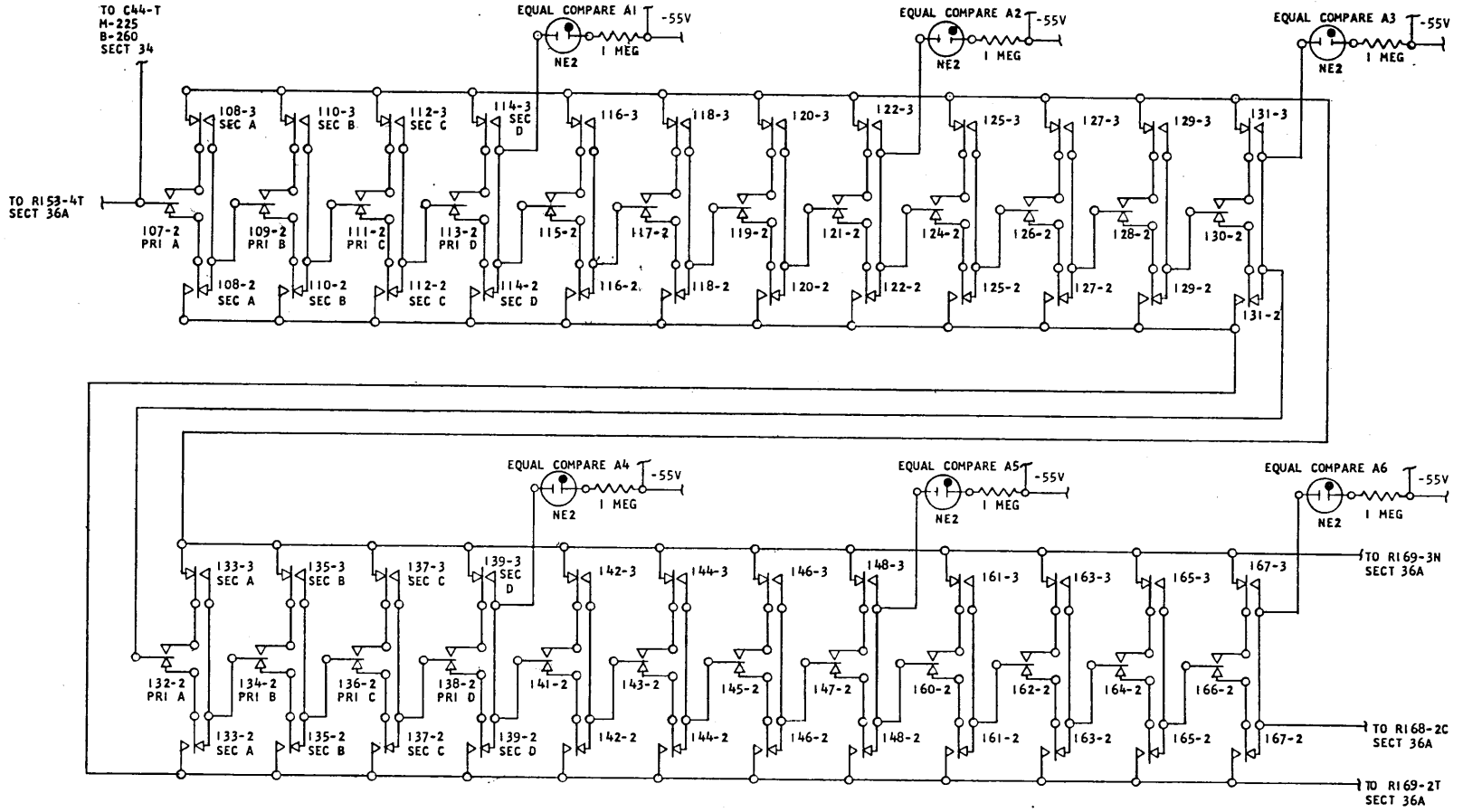
NAME	DATE	CHANGE NO.
WIRING DIAGRAM 88	8-11-60	800945U
	10-17-60	801832
	4-23-63	805087

DESIGN	DATE	CHANGE NO.
WIRING DIAGRAM 88	8-11-60	800945U
	10-17-60	801832
	4-23-63	805087

DESIGN	DATE	CHANGE NO.
WIRING DIAGRAM 88	8-11-60	800945U
	10-17-60	801832
	4-23-63	805087

APPRO	CHK	CHK	CHK	CHK	CHK	CHK
DESIGN	CHK	CHK	CHK	CHK	CHK	CHK
CHECK	CHK	CHK	CHK	CHK	CHK	CHK
NAME	DATE	CHANGE NO.	DATE	CHANGE NO.	DATE	CHANGE NO.
INTERNATIONAL BUSINESS MACHINES CORP.	8-11-60	800945U	10-17-60	80183Z	4-23-63	805087
WIRING DIAGRAM 88	8-11-60	800945U	10-17-60	80183Z	4-23-63	805087
MODEL	88					
6-7-60						
6-8-60						
DRAWN	DNB					
6-7-60						
6-8-60						
SECTION 36						
SECTION 36						



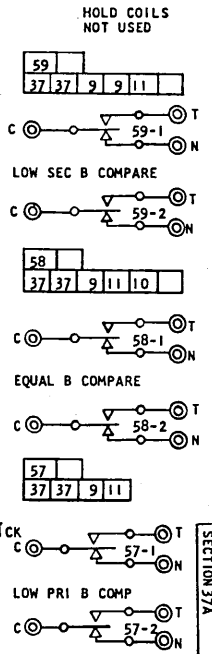
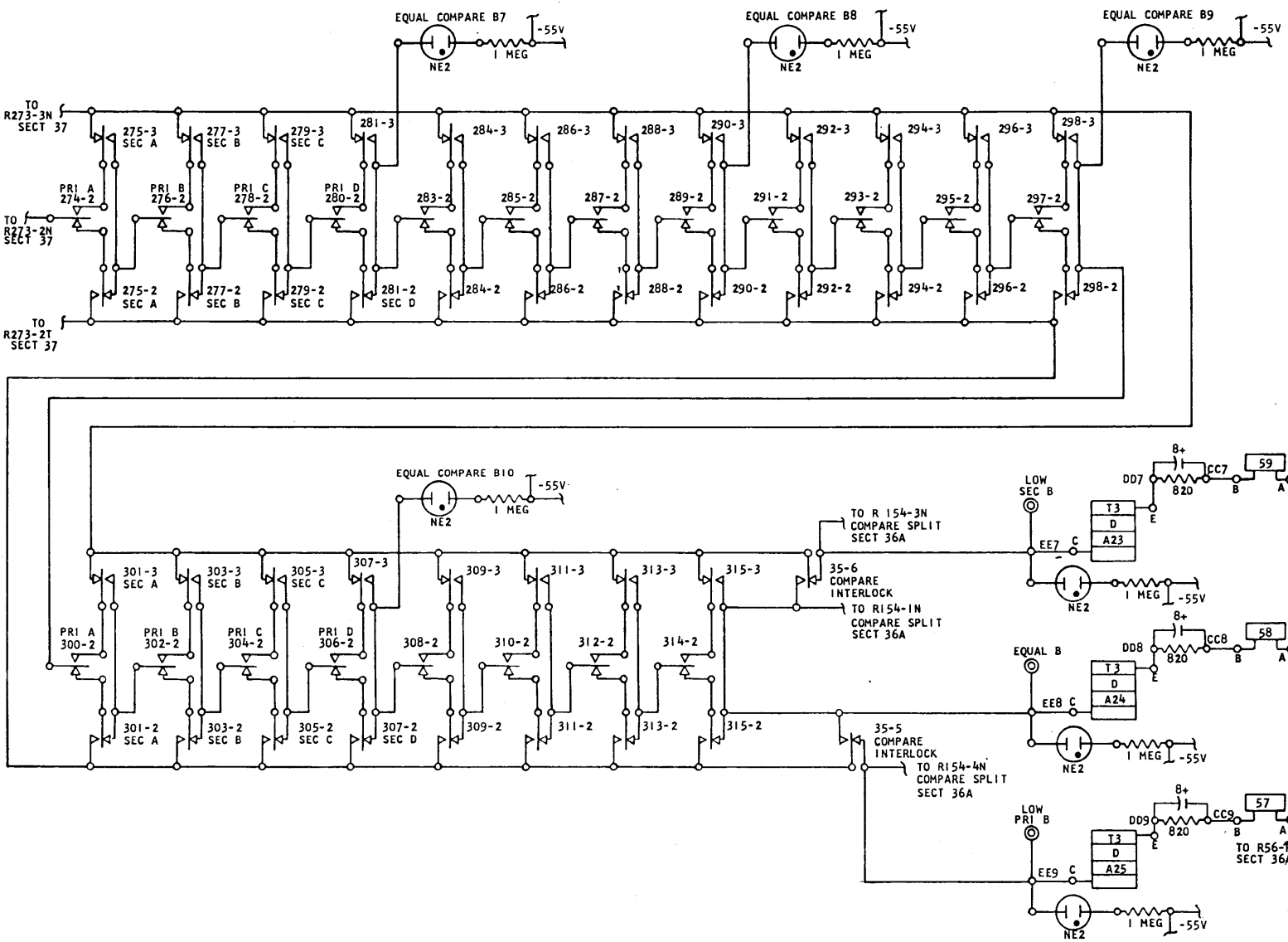


INTERNATIONAL BUSINESS MACHINES CORP.		DATE		CHANGE NO.		DATE		CHANGE NO.		NOTE		DRAWING NO.	
NAME	WIRING DIAGRAM 88	8-1-1-60	800945 U							X PRINT TO ENG. SPEC			
DESIGN	5-1-60 MOORE 88	4-23-63	805087										
CHECK	5-1-60 DAW 6-7-60												
APPRO	5-18-60												
603649													

MODEL I-22 POSITION

COMPARE A

INTERNATIONAL BUSINESS MACHINES CORP.		WIRING DIAGRAM 88	
MODEL	88	DATE	8-11-60
DESIGN	5-6-60	MOORE	88
CHECK	5-6-60	DB	6-7-60
APPRO	5-16-60	PV	6-8-60
DATE	8-11-60	CHANGE NO.	800945U
DATE	10-26-60	CHANGE NO.	801811A
DATE	4-23-63	CHANGE NO.	805087
NOTE: REFER TO ENG. SPEC. DEVELOPMENT NO. 603652			
SECTION 37A			

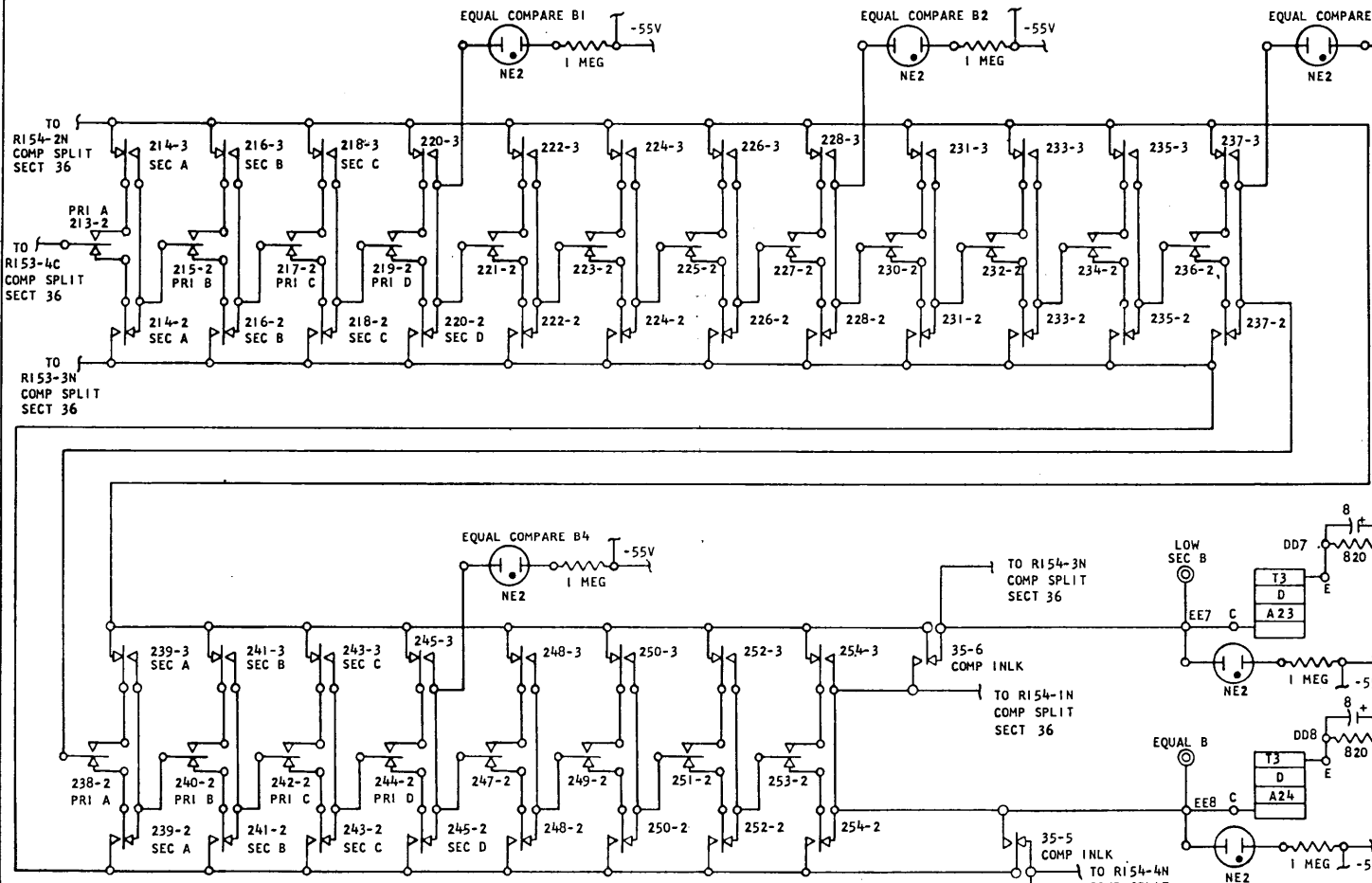


MODEL I-22 POSITION

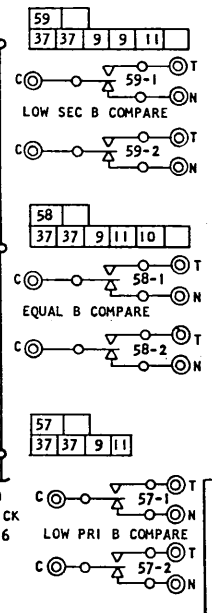
COMPARE B

NAME: WIRING DIAGRAM 88			
DESIGN	STG:CO	MOON	BB
ORIG	5-6-60		
CHKD	KCC	8-18-60	DAW
APPD	KCC	8-18-60	OMX
		PHW	6-8-60
DATE: 8-11-60		CHANGE NO.: 800945U	
DATE: 10-26-60		CHANGE NO.: 801831A	
DATE: 4-23-63		CHANGE NO.: 805087	
NOTE: X PRINT TO ENG SPEC.			
DELIVERY NO. 603642			
SECTION 37			

INTERNATIONAL BUSINESS MACHINES CORP.

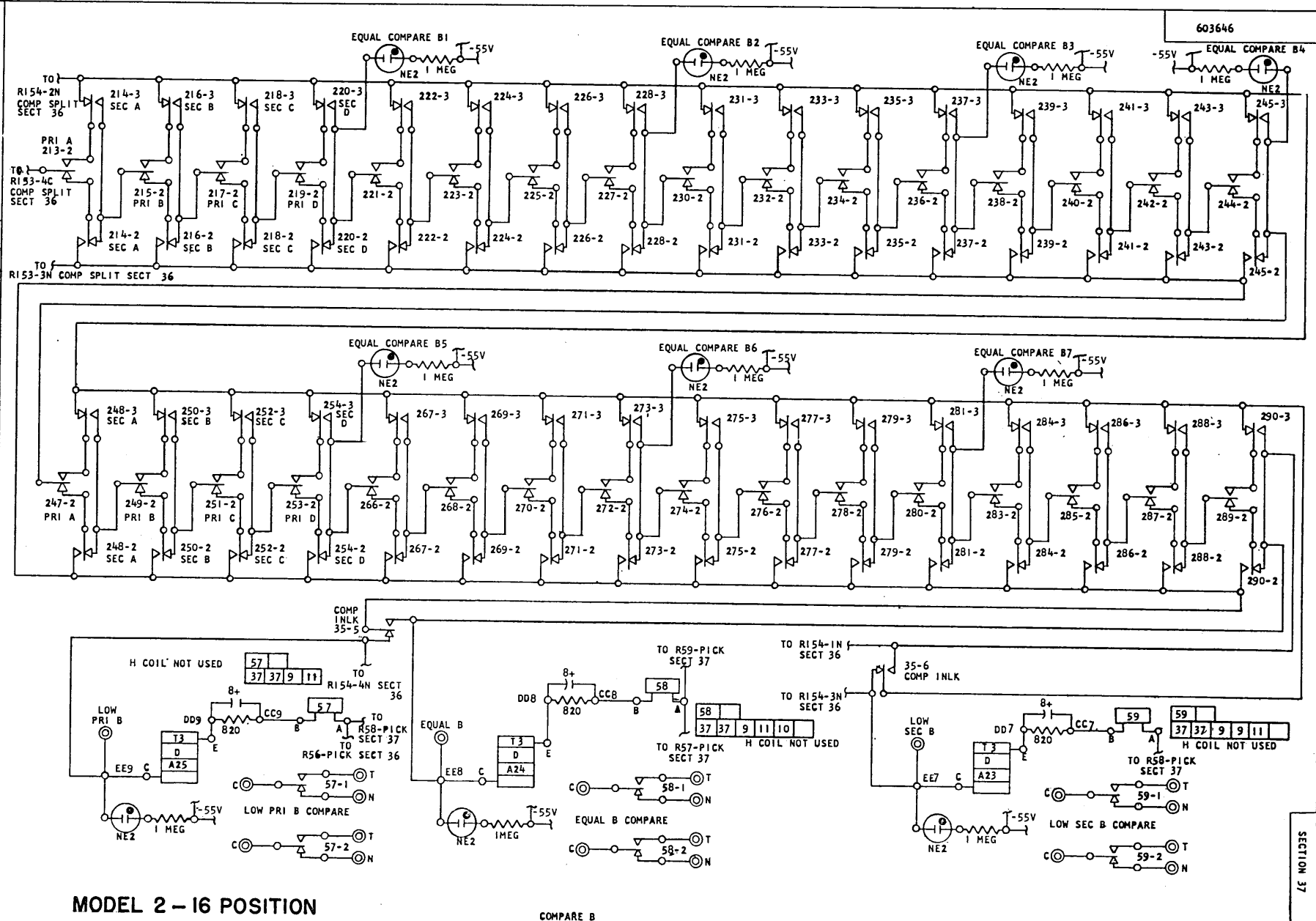


HOLD COILS NOT USED



MODEL 3-10 POSITION

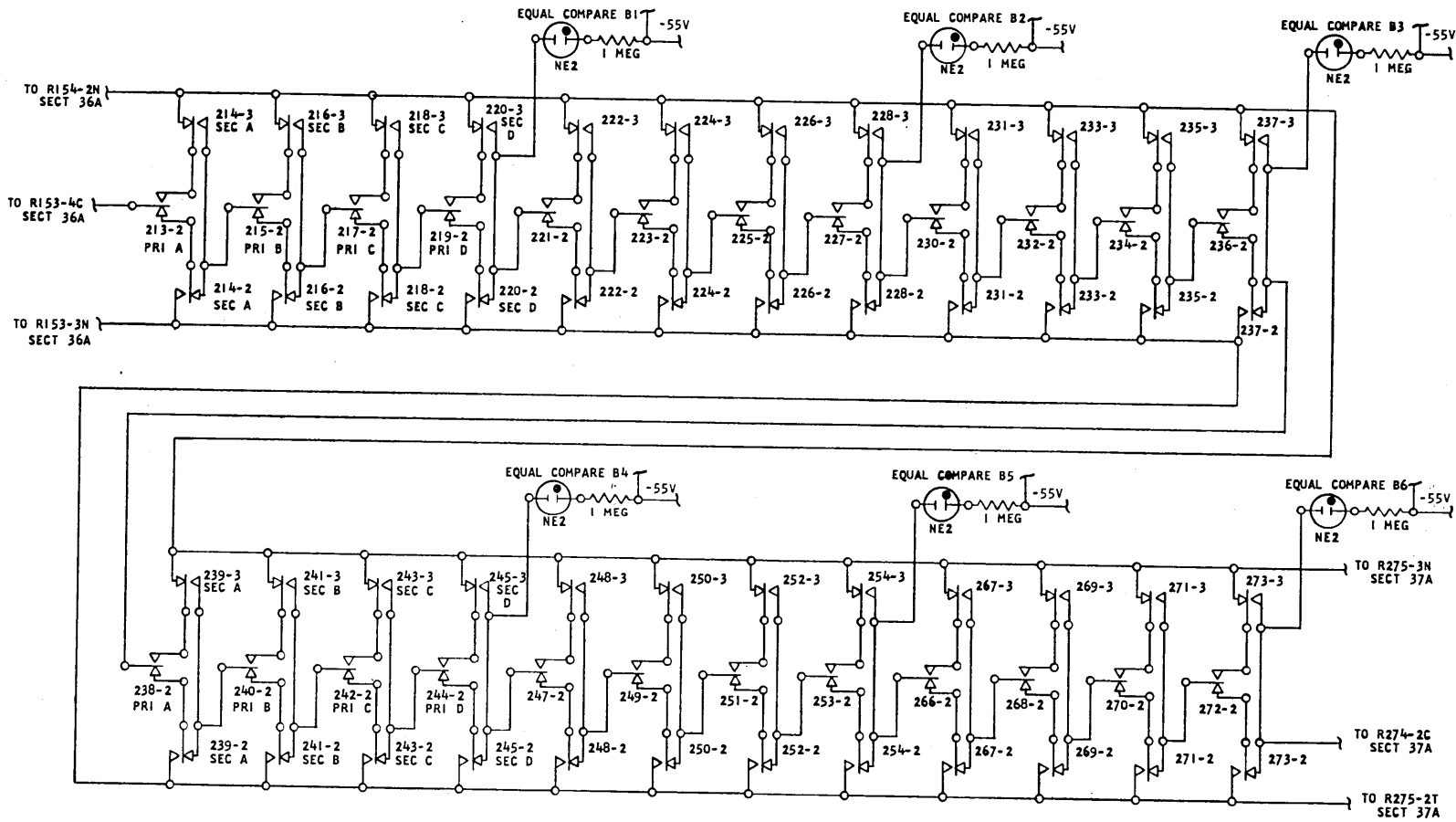
DESIGN	5-16-60	MOD. NO.	88	DATE	8-11-60	CHANGE NO.	800915U	DATE		CHANGE NO.	
CHECK	5-16-60	DAW	6-7-60		10-26-60		801831A				
APPRO	8-18-60	PMW	6-8-60		4-23-63		805087				
NAME: INTERNATIONAL BUSINESS MACHINES CORP. WIRING DIAGRAM 88											
NOTE: X PRINT TO ENG. SPEC. NO. 935391											
DEVELOPMENT NO. 603646											
SECTION 37											



MODEL 2 - 16 POSITION

COMPARE B

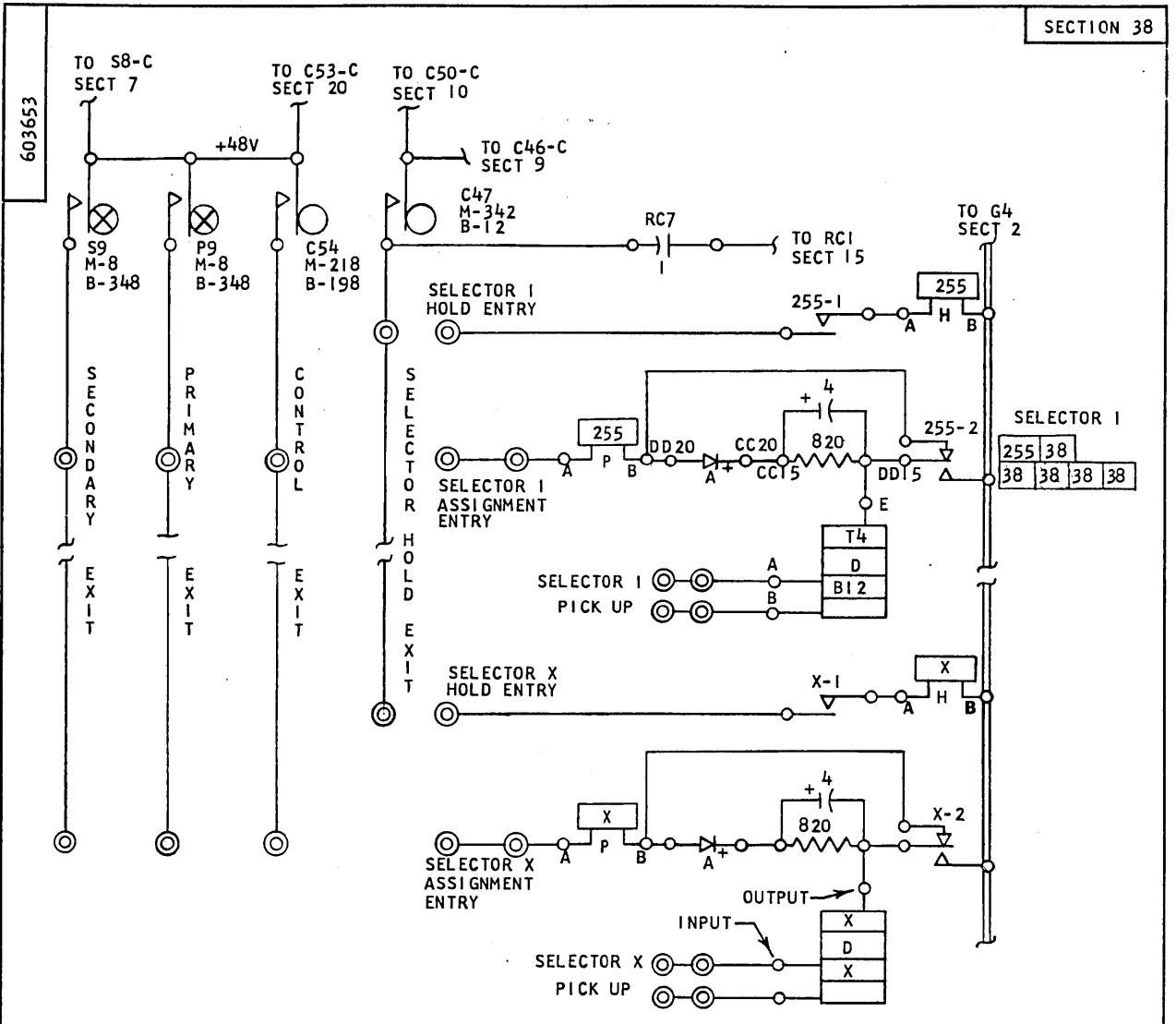
SECTION 37



DESIGN		NAME		INTERNATIONAL BUSINESS MACHINES CORP.	
5-6-60	5-6-60	WIRING DIAGRAM 88			
8-18-60	8-18-60	4-23-63	8-11-60	800945 U	805087
18-18-60	18-18-60				
6-8-60	6-8-60				
DB	DB				
PW	PW				
NOTE: X PRINT TO ENG. SPEC.					
603651					
SECTION 37					

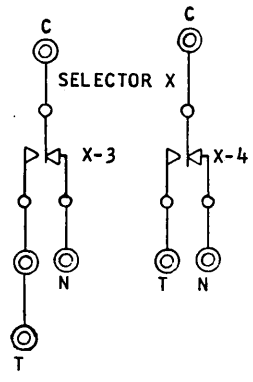
MODEL I-22 POSITION

COMPARE B



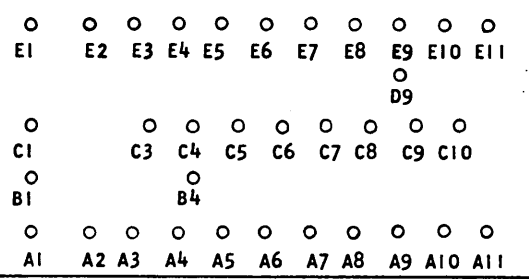
REFER TO CHART FOR IDENTIFICATION OF X NOMENCLATURE

SELECTOR NUMBER	RELAY NUMBER	DIODE TERMINALS		RC TERMINALS		TRANSISTOR			
		+	-	+	-	NO.	POSITION	INPUT	OUTPUT
1	255	DD20	CC20	CC15	DD15	T4	B12	A&B	E
2	256	DD21	CC21	CC16	DD16	T1	B12	C&D	F
3	257	DD22	CC22	CC17	DD17	T4	B13	A&B	E
4	258	DD23	CC23	CC18	DD18	T1	B13	C&D	F
5	259	DD24	CC24	CC19	DD19	T4	B14	A&B	E
6	S6	EE45	EE41	CC41	DD41	T1	B14	C&D	F
7	S7	EE46	EE42	CC42	DD42	T4	B15	A&B	E
8	S8	EE47	EE43	CC43	DD43	T1	B15	C&D	F
9	S9	AA45	BB45	CC45	DD45	T4	B16	A&B	E
10	S10	AA46	BB46	CC46	DD46	T1	B16	C&D	F
11	S11	AA47	BB47	CC47	DD47	T4	B17	A&B	E
12	S12	AA48	BB48	CC48	DD48	T1	B17	C&D	F
13	S13	W45	X45	Y45	Z45	T4	B18	A&B	E
14	S14	W46	X46	Y46	Z46	T1	B18	C&D	F
15	S15	W47	X47	Y47	Z47	T4	B19	A&B	E
16	S16	W48	X48	Y48	Z48	T1	B19	C&D	F
17	S17	S45	T45	U45	V45	T4	B20	A&B	E
18	S18	S46	T46	U46	V46	T1	B20	C&D	F
19	S19	S47	T47	U47	V47	T4	B21	A&B	E
20	S20	S48	T48	U48	V48	T1	B21	C&D	F

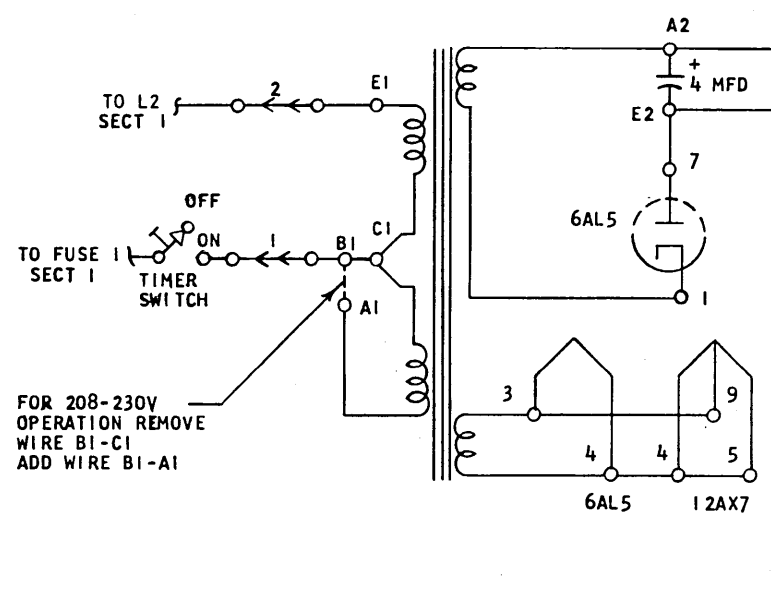


INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE X PRINT TO ENG. SPEC. NO. 895291	DEVELOPMENT NO.
NAME	WIRING DIAGRAM 88	8-11-60	800945U				
DESIGN	SJL 5-6-60	MODEL	88				
DETAIL	SJL 5-6-60						
CHECK	WJ 8-18-60	DRAW	DMB 6-7-60				
APPRO	HCK 8-18-60	CHECK	PWW 6-8-60				603653

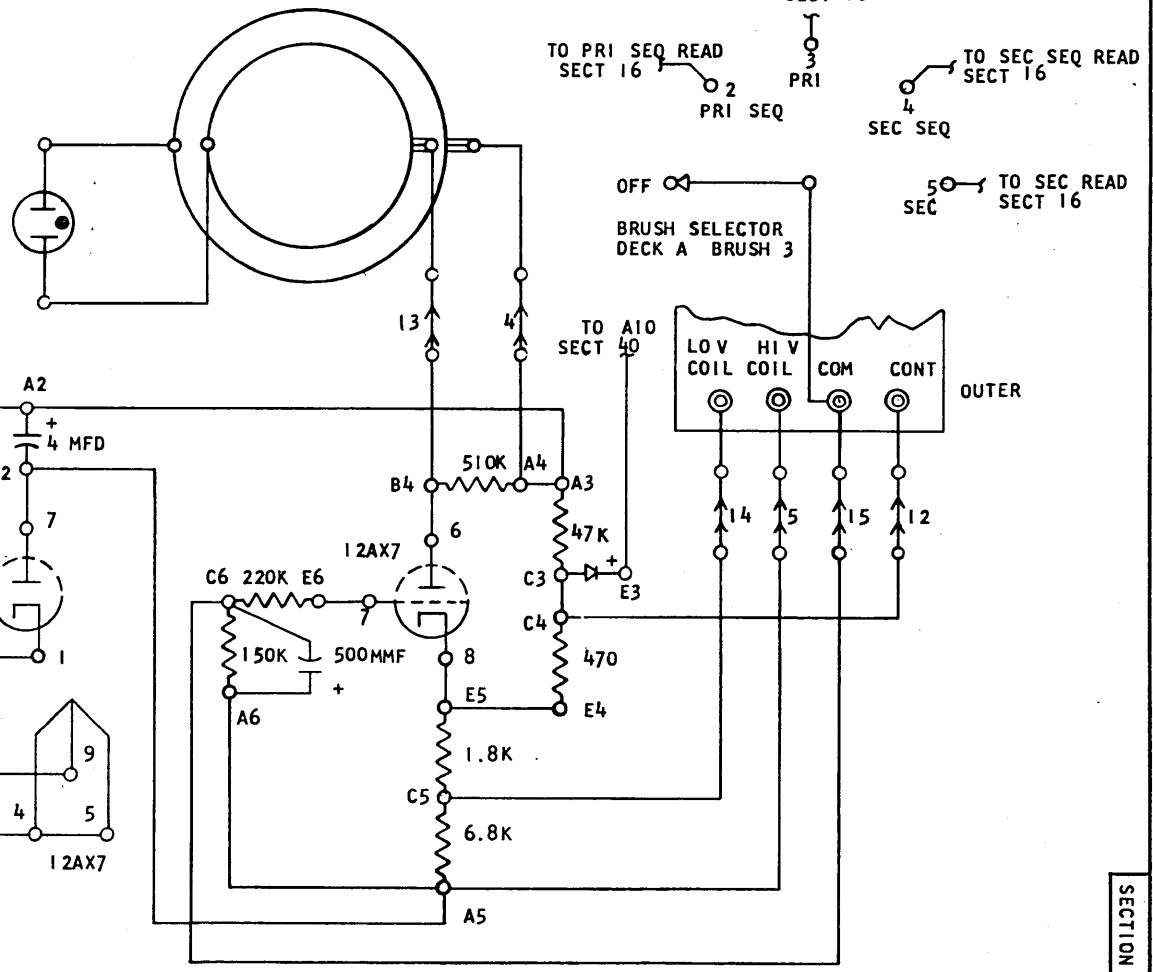
603654



DYNAMIC TIMER POWER PACK TERMINAL BOARD
BOTTOM VIEW

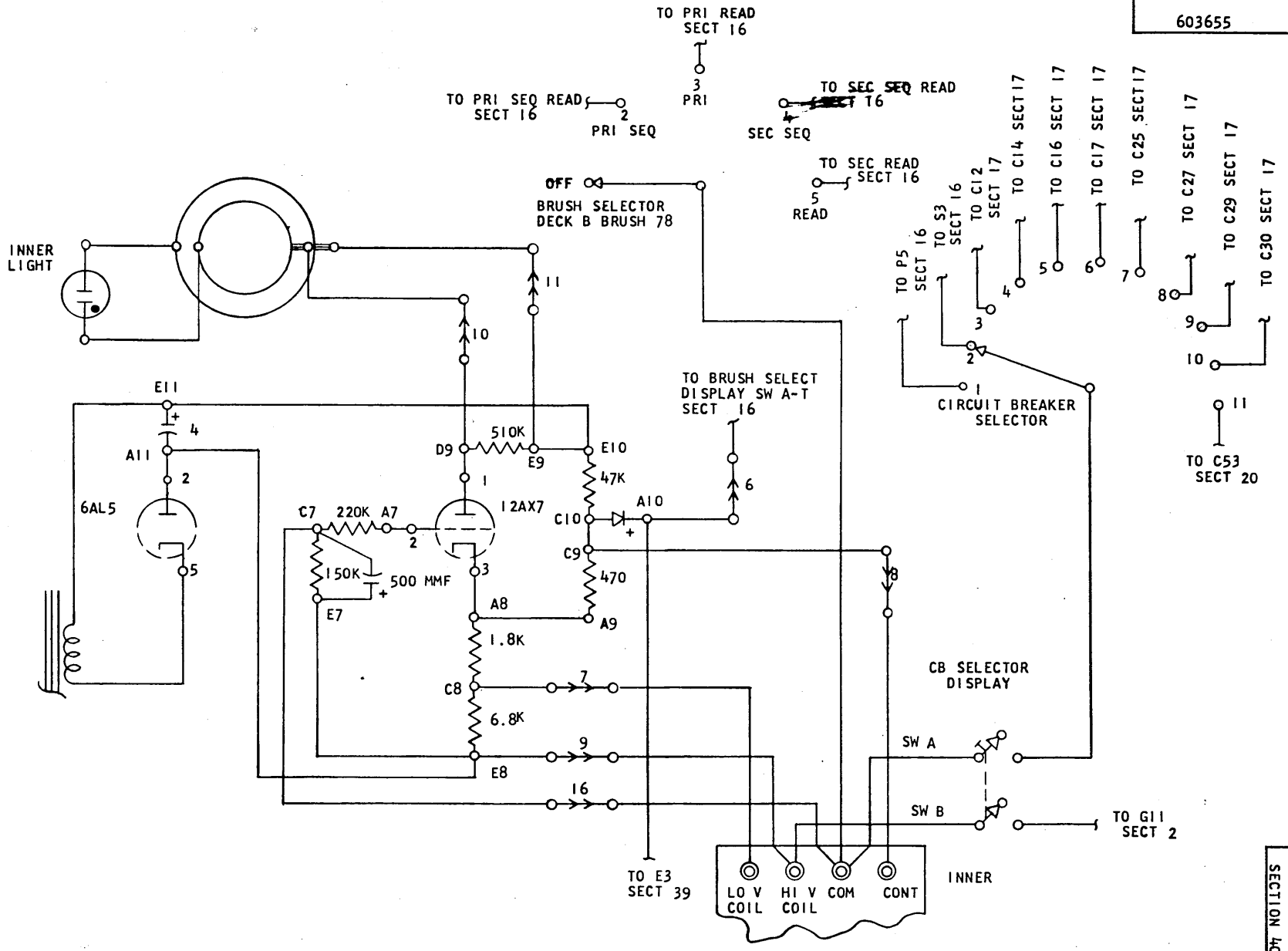


FOR 208-230V
OPERATION REMOVE
WIRE BI-C1
ADD WIRE BI-A1



INTERNATIONAL BUSINESS MACHINES CORP.		NAME		DATE		CHANGE NO.		NOTE		DEVELOPMENT NO.	
WIRING DIAGRAM		88		8-11-60		800945U		X PRINT TO ENG. SPEC. NO.		603654	
DESIGN	5-6-60	MODEL	88	DATE	9-27-62	CHANGE NO.	802662L				
CHECK	5-6-60	DRAW	DB	DATE	3-24-64	CHANGE NO.	807500				
APPROV	8-18-60	CHECK	PW	DATE	6-8-60						

603655



INTERNATIONAL BUSINESS MACHINES CORP.						
NAME	DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
WIRING DIAGRAM 88	8-11-60	800945U				
DESIGNER: PM 5-6-60	3-24-64	807508			NOTE X PRINT TO ENR. SPEC. NO. 895291	603655
CHECKER: PM 5-6-60						
DRAWN: DB 6-7-60						
CHECKED: PM 6-8-60						

SECTION 40

603656

LIGHTS AND SWITCHES

LIGHTS

NAME	LOC
CARD LEVER CHECK LIGHT	6
DOUBLE PUNCH BLANK COLUMN DETECTION	6
DOUBLE PUNCH BLK COL DETECTION NEONS	18T024
EQUAL COMPARE NEONS	36, 37
EQUAL SEQUENCE NEONS	34, 35
FUSE LIGHT	2
PRIMARY CHECK LIGHT	6
PRIMARY CONTROL STOP LIGHT	6
READY LIGHT	4
ROTARY SWITCH LIGHTS	27, 28, 33
SECONDARY CHECK LIGHT	6
SECONDARY CONTROL STOP LIGHT	6
TRANSPORT LIGHT	4
BRUSH SELECTOR DISPLAY SWITCH A	16
BRUSH SELECTOR DISPLAY SWITCH B	16
BRUSH SELECTOR ROTARY SWITCH A	39
BRUSH SELECTOR ROTARY SWITCH B	40
CB SELECTOR DISPLAY SWITCH A	40
CB SELECTOR DISPLAY SWITCH B	40
CB SELECTOR ROTARY SWITCH	40
COMPARE ROTARY SWITCHES	27, 28
COVER INTERLOCK SWITCH	4
DYNAMIC TIMER POWER SWITCH	39
JAM SWITCH	4
JOGGLE SWITCH - PRI, SEC	4
MASTER SWITCH	1
POCKET STOP SWITCH	4
PRIMARY CLUTCH TRIP SWITCH	12
RESET SWITCH A	6
RESET SWITCH B	10
RUNOUT SWITCH A	4
RUNOUT SWITCH B	4
SECONDARY CLUTCH TRIP SWITCH	12
SEQUENCE ROTARY SWITCHES	33
START SWITCH	4
STOP SWITCH	4

SWITCHES

TEST HUBS

NO	DESCRIPTION	LOC
	+48 VOLTS	2
	0 VOLTS	2
	-12 VOLTS	2
	-70 VOLTS	2
1	A HALF COMPARE VALIDITY CHECK	9
2	B HALF COMPARE VALIDITY CHECK	9
3	PRIMARY SEQUENCE VALIDITY CHECK	9
4	SECONDARY SEQUENCE VALIDITY CHECK	9
5	PRIMARY SEQUENCE CONTROL STOP	9
6	SECONDARY SEQUENCE CONTROL STOP	9
7	PRIMARY CARD LEVER 1 DELAY RELAY 155-3	11
8	SECONDARY HOPPER RELAY 8-3	11
9	BASIC PRIMARY FEED	11
10	PRIMARY CLUTCH	12
11	BASIC SEC FEED	11
12	SECONDARY CLUTCH	12
13	PRIMARY HOPPER CONTACT-T	7
14	PRIMARY HOPPER CONTACT-C	7
15	PRIMARY SEQUENCE READ COMMON BRUSH	16
16	PRIMARY READ COMMON BRUSH	16
17	SECONDARY HOPPER CONTACT-T	7
18	SECONDARY HOPPER CONTACT-C	7
19	SECONDARY CARD LEVER 1-T	5
20	SECONDARY CARD LEVER 1-C	5
21	SECONDARY SEQUENCE READ COMMON BRUSH	16
22	SECONDARY READ COMMON BRUSH	16

CONTROL STOP CIRCUIT
CLUTCH CIRCUITS

DIODES

SYMBOL	TYPE
A	1N91 OR 1N1218
B	1N92
C	3U1
D	1N1218 OR 1N1219
E	1N538
F	1N1221
H	SELENIUM VALVE

ARC SUPPRESSION

NO	LOCATION
RC 1	15
RC 2	15
RC 4	7
RC 5	32
RC 7	38

MAGNETS

NAME	LOCATION	COIL		ASSEMBLY PART NO
		PART NO	RESISTANCE	
PRIMARY CLUTCH	12	602064	50 ±2 Ω	602052
SECONDARY CLUTCH	12	602064	50 ±2 Ω	602052
PRIMARY POCKET 2 SELECT	7	602405	324 ±32Ω	602392
PRIMARY POCKET 3 SELECT	7	602405	324 ±32Ω	602385
SECONDARY POCKET 3 SELECT	7	602405	324 ±32Ω	602391
SECONDARY POCKET 4 SELECT	7	602405	324 ±32Ω	602383

H D RELAY AND CONTACTOR

NO	COIL	CONT		COIL RESISTANCE
		1	2	
HD 1	4	1		1197-97 Ω
K 1	1	1	1	430 ±10 Ω

CARD LEVER CONTACTS

DESCRIPTION	LOCATION
PRI HOPPER CONTACT	7
PRI CARD LEVER NO 1	5
PRI CARD LEVER NO 2	5
SEC HOPPER CONTACT	7
SEC CARD LEVER NO 1	5
SEC CARD LEVER NO 2	5

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME				8-11-60	800945U			X PRINT TO ENG. SPEC. NO. 895291	
DESIGN				11-17-60	801831B				
DETAIL				1-11-61	802145				
CHECK				5-21-62	802662				
APPRO									603656

603657

CONTROL PANEL HUB CIRCUIT LOCATIONS

PANEL 1 SECONDARY

NAME	CONTROL PANEL DESIGNATIONS AND ABBREVIATIONS	LOCATION
ALL CYCLES	ALL CYCLES	11
COMPARING A FUNCTIONAL CONTROL	LS, EQ, LP-T, N, C	36
COMPARING A FUNCTIONAL EXIT	LP, EQ, LS	36
SECONDARY A AND B READ IN	SECDY A, B READ IN	13
SECONDARY A COMPARE SHIFT	A SHIFT	14
SECONDARY B COMPARE SHIFT	B SHIFT	14
SECONDARY BLANK COLUMN CONTROL ENTRY	BLANK COLUMN CONTROL - ON	22 TO 24
SECONDARY BLANK COLUMN CONTROL EXIT	BLANK COL CONTROL	10
SECONDARY COMPARE AND DOUBLE PUNCH BLANK COLUMN DETECTION ENTRY	COMPARING AND DPBC ENTRY	22 TO 24
SECONDARY CYCLES	SECDY CY	10
SECONDARY DOUBLE PUNCH BLANK COLUMN DETECTION	DPBC	24
SECONDARY ENTRY	SEQUENCE ENTRY 2	29
SECONDARY FEED	SECDY FEED	11
SECONDARY O	SECDY O	16
SECONDARY POCKET CONTROL	PKT CTRL	7
SECONDARY POCKET SELECTION	POCKET 3, POCKET 4	7
SECONDARY READ	SECONDARY READ	16
SECONDARY SEQUENCE A FUNCTIONAL EXIT	HI EQ LO	34
SECONDARY SEQUENCE B FUNCTIONAL EXIT	HI EQ LO	34
SECONDARY SEQUENCE ENTRY	SEQUENCE ENTRY 1	29
SECONDARY SEQUENCE FUNCTIONAL CONTROL	HI, EQ, LO - T, N, C	34
SECONDARY SEQUENCE READ	SEQUENCE READ	16
SECONDARY SEQUENCE SPLIT	SEQ SPT	14
SECONDARY SEQUENCE SWITCH	SEQ - N, F	9
SECONDARY X	SECDY X	16
SEQUENCE SHIFT	SEQ SH	14

PANEL 2 PRIMARY

NAME	CONTROL PANEL DESIGNATIONS AND ABBREVIATIONS	LOCATION
ALL CYCLES	ALL CYCLES	11
BASIC-MERGE, MATCH	MER, MAT	14
COMPARE SPLIT	CPR SPT	14
COMPARING B FUNCTIONAL CONTROL	LS, EQ, LP-T, N, C	37
COMPARING B FUNCTIONAL EXIT	LP EQ LS	37
PRIMARY A COMPARE SHIFT	PRI A SH	14
PRIMARY A AND B READ IN	PRI A, B READ IN	13
PRIMARY BLANK COLUMN CONTROL ENTRY	BLANK COLUMN CONTROL - ON	18 TO 20
PRIMARY BLANK COLUMN CONTROL EXIT	BLANK COL CONTROL	10
PRIMARY COMPARE AND DOUBLE PUNCH BLANK COLUMN DETECTION ENTRY	COMPARING AND DPBC ENTRY	18 TO 20
PRIMARY CYCLES	PRI CY	10
PRIMARY DOUBLE PUNCH BLANK COLUMN DETECTION	DPBC	20
PRIMARY ENTRY	SEQUENCE ENTRY 2	29
PRIMARY FEED	PRI FEED	11
PRIMARY O	PRI O	16
PRIMARY POCKET CONTROL	PKT CTRL	7
PRIMARY POCKET SELECTION	POCKET 2, POCKET 3	7
PRIMARY READ	PRIMARY READ	16
PRIMARY SEQUENCE A FUNCTIONAL EXIT	HI EQ LO	35
PRIMARY SEQUENCE B FUNCTIONAL EXIT	HI EQ LO	35
PRIMARY SEQUENCE ENTRY	SEQUENCE ENTRY 1	29
PRIMARY SEQUENCE FUNCTIONAL CONTROL	HI, EQ, LO - T, N, C	35
PRIMARY SEQUENCE READ	SEQUENCE READ	16
PRIMARY SEQUENCE SPLIT	SEQ SPT	14
PRIMARY SEQUENCE SWITCH	SEQ - N, F	9
PRIMARY X	PRI X	16
SELECTOR ASSIGNMENT ENTRY	SELECTOR ASSIGNMENT ENTRY	38
SELECTOR CONTROL EXIT	CONTROL EXIT	38
SELECTOR HOLD EXIT AND ENTRY	SELECTOR HOLD EXIT AND ENTRY	38
SELECTOR PICK UP	SELECTOR PICKUP	38
SELECTOR PRIMARY EXIT	PRIMARY EXIT	38
SELECTOR SECONDARY EXIT	SECONDARY EXIT	38
SELECTOR TNC	SELECTOR TNC	38

INTERNATIONAL BUSINESS MACHINES CORP.

NAME WIRING DIAGRAM 88

DATE

8-11-60 800945U

CHANGE NO.

DATE

CHANGE NO.

NOTE

X PRINT TO ENG. SPEC. NO.
895291

DEVELOPMENT NO.

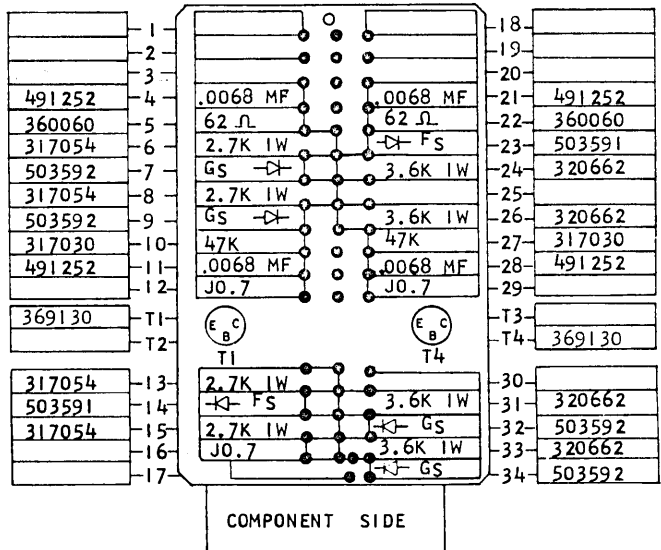
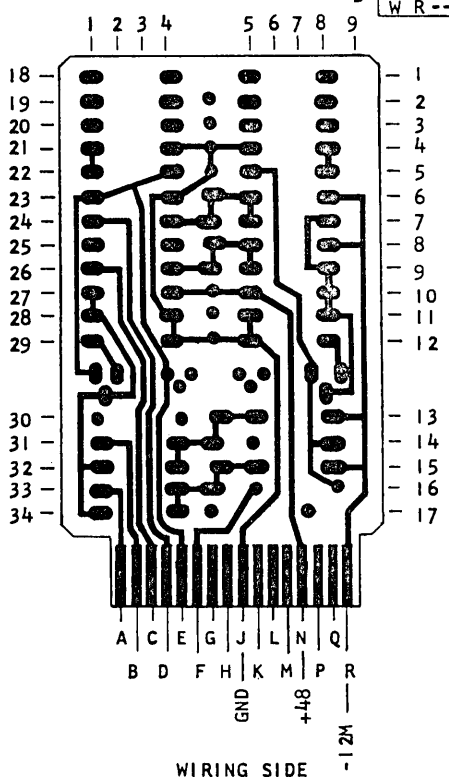
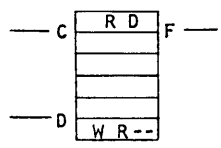
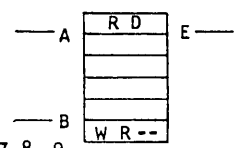
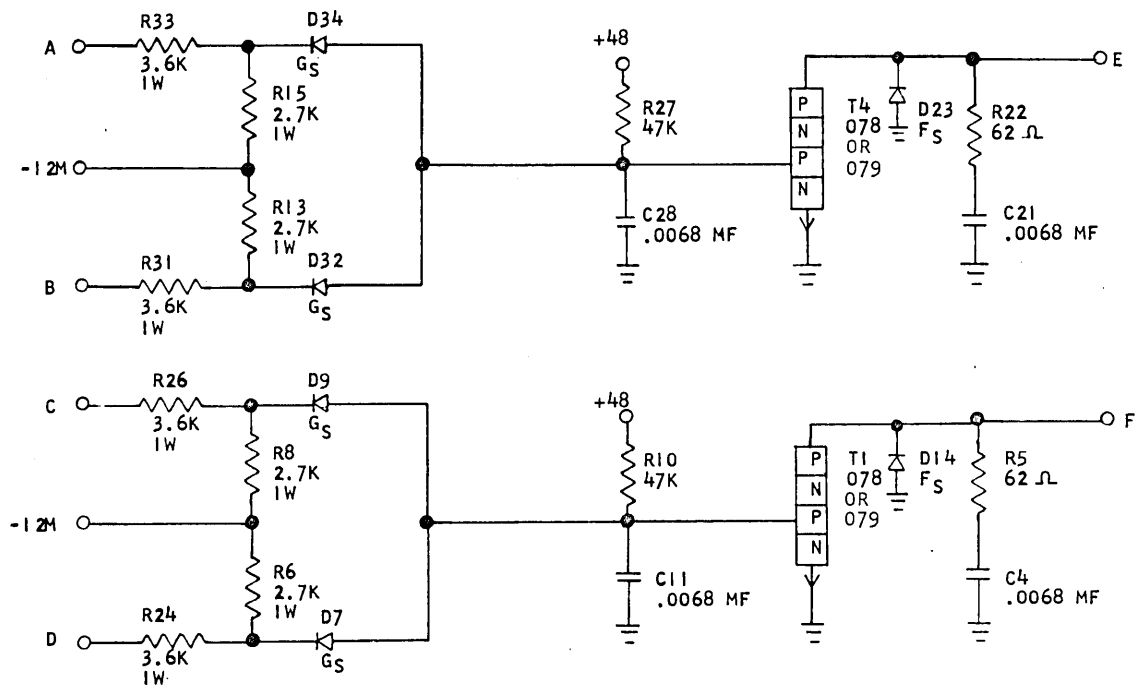
DESIGN 5-6-60 MODEL 88
DETAIL 5-6-60
CHECK 8-16-60 DRAW DB 6-7-60
APPRO 8-16-60 CHECK PW 6-8-60

603657

SECTION 42

SECTION 42

603658

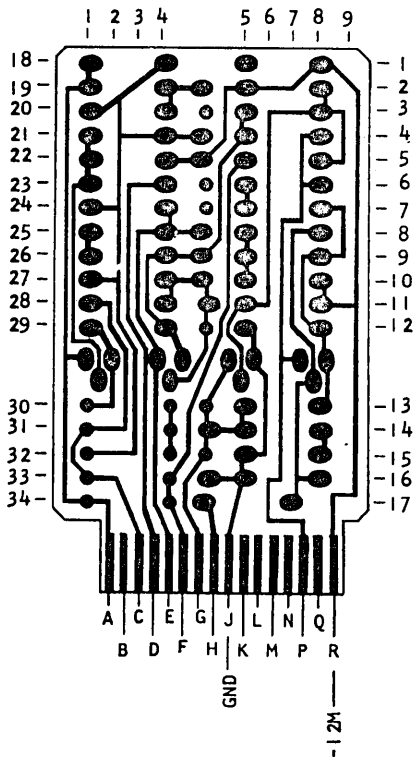
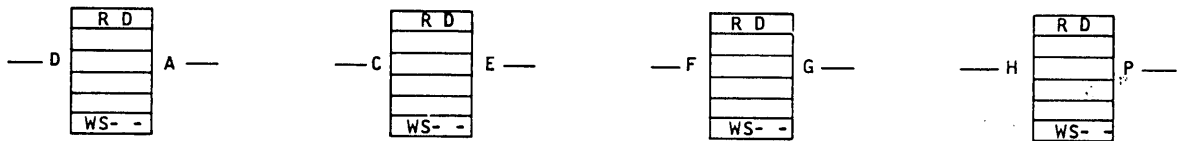
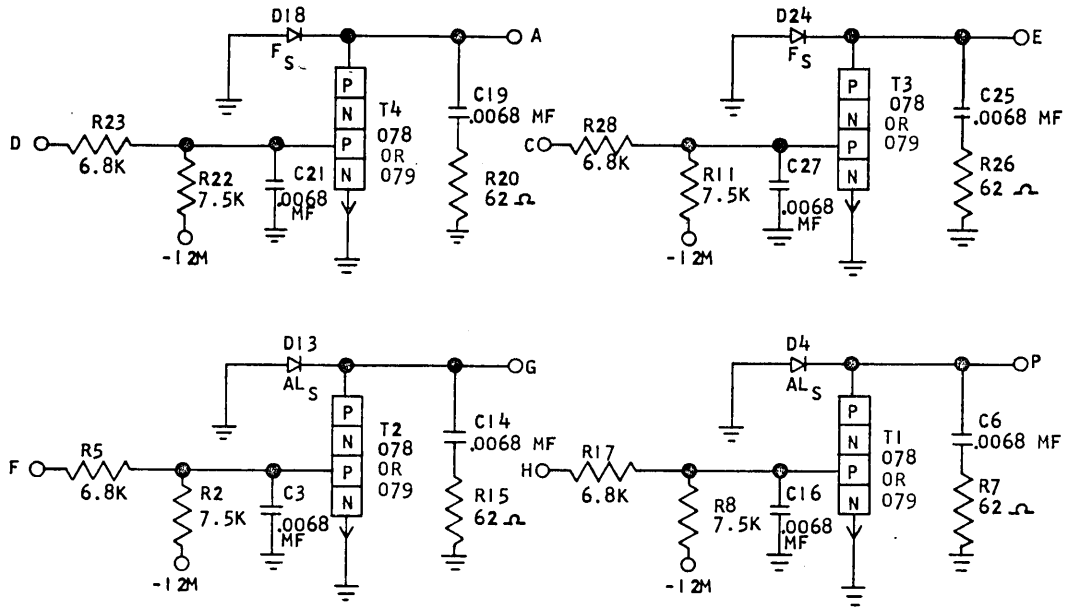


NOTES
 X "J" IN BLOCK DENOTES JUMPER 491296
 XI ALL RESISTORS ARE 1/2 WATT AND ±5% UNLESS OTHERWISE NOTED

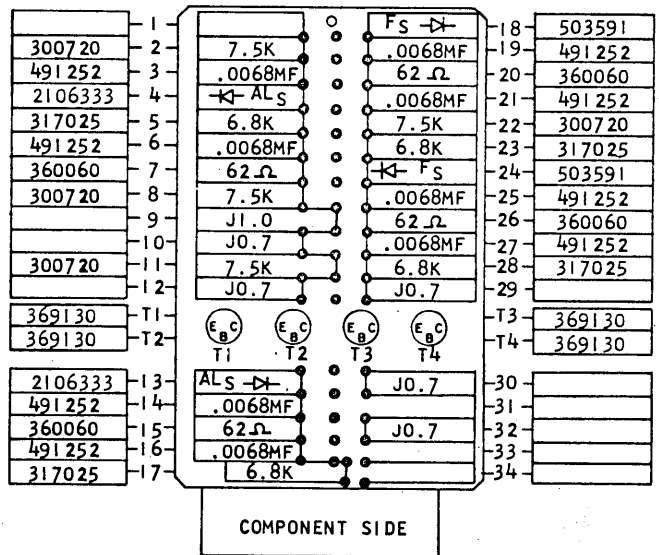
DPBC AND SELECTOR-PART NUMBER 371887

INTERNATIONAL BUSINESS MACHINES CORP.			DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME			8-11-60	800945U			X PRINT TO ENG. SPEC. NO. 895291	
DESIGN			1-11-61	802145				
DETAIL			12-28-61	802878				
CHECK	8-18-60	DRAW	DB	6-7-60				
APPRO	8-18-60	CHECK	PW	6-8-60				603658

603659



WIRING SIDE



COMPONENT SIDE

NOTES
 X "J" IN BLOCK DENOTES JUMPER, 491296
 XI ALL RESISTORS ARE 1/2 WATT AND ±5% UNLESS OTHERWISE NOTED

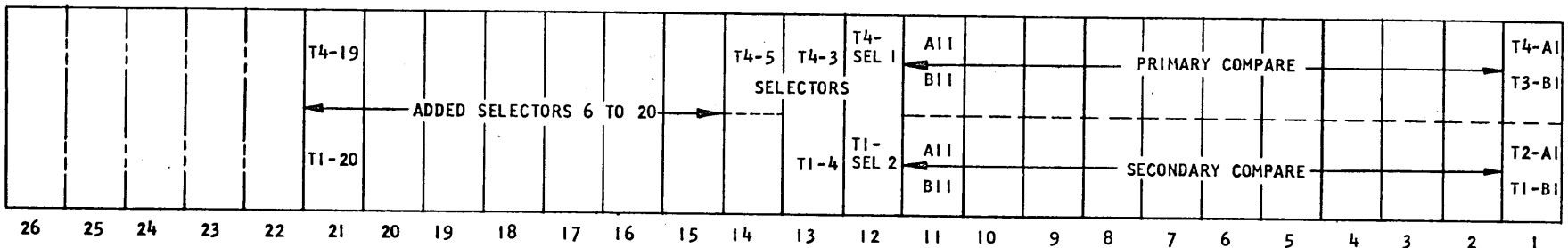
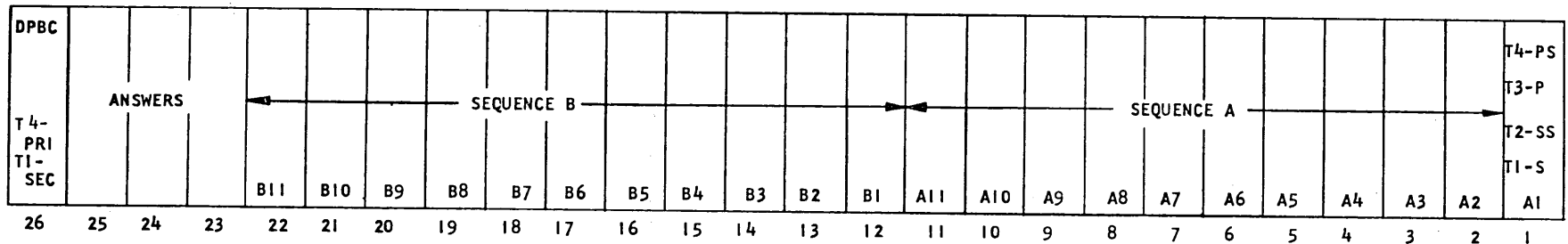
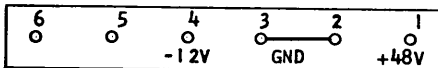
COMPARE; SEQUENCE AND ANSWER, PART NUMBER 371888

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	WIRING DIAGRAM 88			8-11-60	800945U			NOTE X PRINT TO ENG. SPEC. NO. 895291	
DESIGN	5-6-60			1-11-61	802145				
DETAIL	5-6-60			12-28-61	802878				
CHECK	HCK	8-18-60	DRAW DB	6-7-60					
APPRO	HCK	8-18-60	CHECK PW	6-8-60				603659	

603660

SMS TRANSISTOR GATE (WIRING SIDE)

SMS VOLTAGE TERMINAL



TYPE CARD	4 TRANSISTOR PART # 371888				2 TRANSISTOR PART#371887	
	T1	T2	T3	T4	T1	T4
TRANSISTOR #	T1	T2	T3	T4	T1	T4
INPUT	H	F	C	D	C, D	A, B
OUTPUT	P	G	E	A	F	E

INTERNATIONAL BUSINESS MACHINES CORP.
 NAME: WIRLING DIAGRAM 88
 DESIGN: S-6-60 MODEL: 88
 CHECK: K/K 8-18-60 DRAW: DB 6-7-60
 APPRO: K/K 8-18-60 CHECK: PW 6-8-60

DATE: 8-11-60 CHANGE NO.: 800945U
 DATE: 12-28-61 CHANGE NO.: 802878

NOTE: X PRINT TO ENG. SPEC. NO. 895291

DEVELOPMENT NO. 603660

SECTION 45

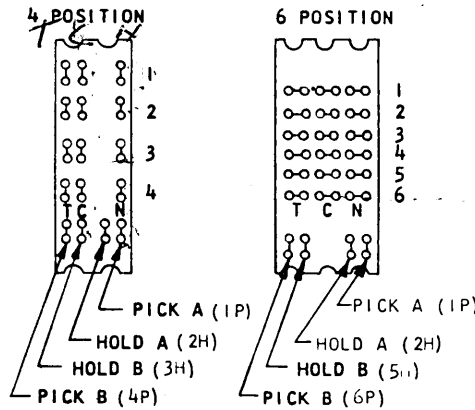
SECTION 45

P - PERMISSIVE MAKE RELAY
W - WIRE CONTACT RELAY

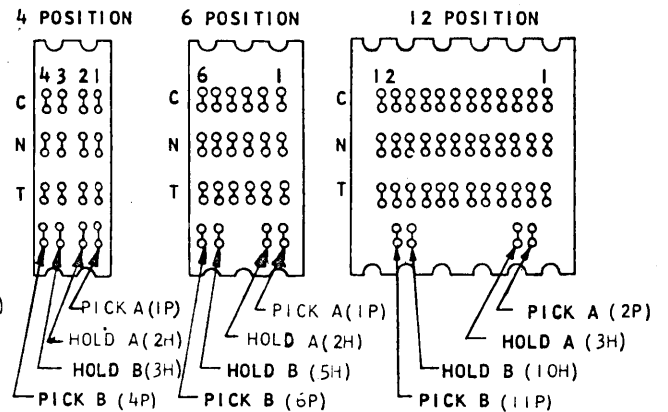
603661

SIZE	TYPE	PART NO	NAME	COIL RESISTANCE	
				PICK	HOLD
4P	HR	311712	HIGH RESIST HOLD PM	680 ±68 Ω	1300 ±130 Ω
4P	HR-HS	311713	HIGH SPEED PICK HIGH RESIST HOLD PM	400 ±65 Ω	1300 ±100 Ω
4W	STD	196207	STANDARD WC	624 ±65 Ω	622 ±62 Ω
4W	HR	196208	HIGH RESIST HOLD WC	624 ±65 Ω	1735 ±175 Ω
6P	HR	311714	HIGH RESIST HOLD PM	600 ±60 Ω	1000 ±100 Ω
6P	HR-HS	311715	HIGH SPEED PICK HIGH RESIST HOLD PM	360 ±65 Ω	1000 ±100 Ω
6W	STD	196197	STANDARD WC	622 ±65 Ω	695 ±70 Ω
6W	HR-HS	257659	HIGH SPEED PICK HIGH RESIST HOLD WC	247 ±24 Ω	1080 ±110 Ω
12W	HR	255735	HIGH RESIST HOLD WC	395 ±50 Ω	600 ±48 Ω

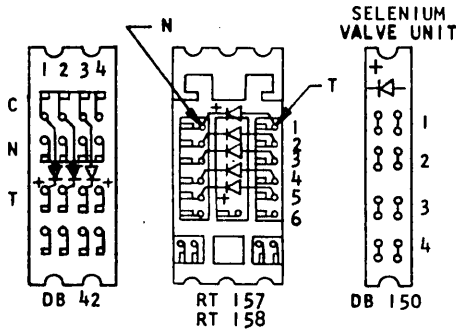
PERMISSIVE MAKE RELAY - WIRE SIDE



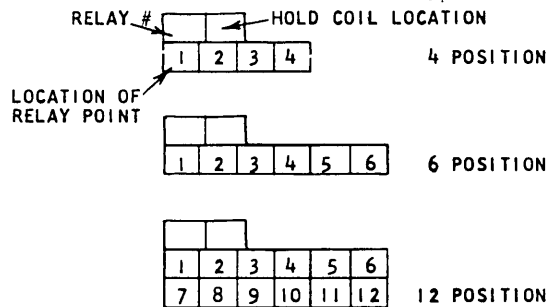
WIRE CONTACT RELAY - WIRE SIDE



DIODE MOUNTING BLOCKS
RELAY SIDE



RELAY POINT LOCATION BLOCKS
BLOCKS LOCATED AT PICK COIL



INTERNATIONAL BUSINESS MACHINES CORP.			DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	WIRING DIAGRAM 88		8-11-60	800945U			X PRINT TO ENG. SPEC. NO. 895291	
DESIGN	5-6-60	MODEL 88	11-17-60	801831B				
DETAIL	5-6-60		5-21-62	802662				
CHECK	HCK 8-12-60	DRAW DB 6-7-60	8-7-62	802662J				
APPRO	HCK 8-12-60	CHECK PW 6-8-60	3-24-64	807568				603661

603662

RELAY LOCATION

SECTION 47

RELAY NO	COILS		NAME	SIZE	TYPE	PART NO
	P	H				
1	4	4	START	4W	HR	196208
2	4	4	DELAY	4W	STD	196207
3	4	4	SINGLE CYCLE	4P	HR	311712
4	4	4	RUN	6P	HR	311714
5	4	4	RUNOUT	6P	HR	311714
7	7	7	PRI HOPPER	6W	STD	196197
8	7	7	SEC HOPPER	6W	STD	196197
10	8	8	CARD LEVER TEST	6P	HR	311714
11	5	8	PRI CL #1	6P	HR	311714
13	5	8	PRI CL #2	4P	HR	311712
14	5	8	PRI CL #2	4P	HR	311712
15	5	8	SEC CL #1	4P	HR	311712
16	5	8	SEC CL #1	4P	HR	311712
17	5	8	SEC CL #2	4P	HR	311712
18	5	8	SEC CL #2	4P	HR	311712
19	7	8	PRI FEED	6P	HR	311714
21	7	8	PRI CL #2 DELAY	6P	HR	311714
22	7	8	SEC FEED	4P	HR	311712
23	7	8	SEC FEED	4P	HR	311712
24	7	8	SEC CL #2 DELAY	6P	HR	311714
26	6	8	PRI RESET	4W	HR	196208
27	6	8	SEC RESET	4W	HR	196208
28	5	6	PRI CL CHECK	4P	HR	311712
29	5	6	SEC CL CHECK	4P	HR	311712
30	5	6	PRI CHECK	4P	HR	311712
31	5	6	SEC CHECK	4P	HR	311712
32	14	14	BASIC	6W	HRHS	257659
34	14	14	MATCH	4W	HR	196208
35	10	10	COMPARE INTERLOCK	6P	HR	311714
36	9	9	PRI CONTROL STOP	6P	HR	311714
38	9	9	SEC CONTROL STOP	6P	HR	311714
39	12	8	PRI CLUTCH	6P	HR	311714
41	12	8	SEC CLUTCH	6P	HR	311714
43	20	6	PRI DPBC	6P	HRHS	311715
45	24	6	SEC DPBC	6P	HRHS	311715
46	34		LOW SEC SEQ	4P	HRHS	311713
47	34		EQUAL SEC SEQ	6P	HRHS	311715
49	34		HIGH SEC SEQ	4P	HRHS	311713
50	35		LOW PRI SEQ	4P	HRHS	311713
51	35		EQUAL PRI SEQ	4P	HRHS	311713
52	35		HIGH PRI SEQ	6P	HRHS	311715

RELAY NO	COILS		NAME	SIZE	TYPE	PART NO
	P	H				
54	36		LOW PRI A COMPARE	4P	HRHS	311713
55	36		EQUAL A COMPARE	4P	HRHS	311713
56	36		LOW SEC A COMPARE	4P	HRHS	311713
57	37		LOW PRI B COMPARE	4P	HRHS	311713
58	37		EQUAL B COMPARE	6P	HRHS	311715
59	37		LOW SEC B COMPARE	6P	HRHS	311715
62	7	6	TEST INTERLOCK	6W	HRHS	257659
63		6	TEST INTERLOCK	6W	HRHS	257659
65	2	2	FUSE	4W	HR	196208
66	14	14	PRI A COMP SHIFT	4W	HR	196208
67	14	14	PRI A COMP SHIFT	4W	HR	196208
68	14	14	SEC A COMP SHIFT	4W	HR	196208
69	14	14	SEC A COMP SHIFT	4W	HR	196208
70	14	14	SEC B COMP SHIFT	4W	HR	196208
71	14	14	SEC B COMP SHIFT	4W	HR	196208
72	10		STORAGE CLEAR	6W	HRHS	257659
74	13	13	PRI A READ IN	4P	HRHS	311713
75	13	13	PRI A READ IN	4P	HRHS	311713
76	13	13	PRI B READ IN	4P	HRHS	311713
77	13	13	PRI B READ IN	4P	HRHS	311713
78	13	13	SEC A READ IN	4P	HRHS	311713
79	13	13	SEC A READ IN	4P	HRHS	311713
80	13	13	SEC B READ IN	4P	HRHS	311713
81	13	13	SEC B READ IN	4P	HRHS	311713
83	15		PRI A BC TEST	6P	HR	311714
85	15		PRI A BC TEST	4P	HR	311712
86	15		PRI B BC TEST	6P	HR	311714
87	15		PRI B BC TEST	4P	HR	311712
88	15		SEC A BC TEST	6P	HR	311714
90	15		SEC A BC TEST	4P	HR	311712
91	15		SEC B BC TEST	6P	HR	311714
92	15		SEC B BC TEST	4P	HR	311712
93	15		PRI A BC TEST	6P	HR	311714
95	15		PRI B BC TEST	6P	HR	311714
96	15		SEC A BC TEST	6P	HR	311714
98	15		SEC B BC TEST	6P	HR	311714
99	15		PRI A BC TEST	6P	HR	311714
101	15		PRI B BC TEST	6P	HR	311714
102	15		SEC A BC TEST	6P	HR	311714
104	15		SEC B BC TEST	6P	HR	311714

NOTE: REFER TO SEC 46 FOR RELAY TERMINAL CONNECTION

INTERNATIONAL BUSINESS MACHINES CORP.			DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE X PRINT TO ENG. SPEC. NO. 895291	DEVELOPMENT NO.
NAME	WIRING DIAGRAM 88		8-11-60	800945U				
DESIGN	5-6-60	MODEL	3-24-64	807508				
DETAIL	5-6-60							
CHECK	6-18-60	DRAW	DB	6-7-60				
APPRO	6-18-60	CHECK	PW	6-8-60				
								603662

SECTION 47

RELAY LOCATION

603663

RELAY NO	COILS		NAME	SIZE	TYPE	PART NO
	P	H				
107	18	26	PRI COMP A1 A CODE	4P	HRHS	311713
108	22	26	SEC COMP A1 A CODE			
109	18	26	PRI COMP A1 B CODE			
110	22	26	SEC COMP A1 B CODE			
111	18	26	PRI COMP A1 C CODE			
112	22	26	SEC COMP A1 C CODE			
113	18	26	PRI COMP A1 D CODE			
114	22	26	SEC COMP A1 D CODE			
115	NS	NS	PRI COMP A2 A CODE			
116	NS	NS	SEC COMP A2 A CODE			
117	NS	NS	PRI COMP A2 B CODE			
118	NS	NS	SEC COMP A2 B CODE			
119	NS	NS	PRI COMP A2 C CODE			
120	NS	NS	SEC COMP A2 C CODE			
121	NS	NS	PRI COMP A2 D CODE			
122	NS	NS	SEC COMP A2 D CODE	4P	HRHS	311713
124	NS	NS	PRI COMP A3 A CODE	4P	HRHS	311713
125	NS	NS	SEC COMP A3 A CODE			
126	NS	NS	PRI COMP A3 B CODE			
127	NS	NS	SEC COMP A3 B CODE			
128	NS	NS	PRI COMP A3 C CODE			
129	NS	NS	SEC COMP A3 C CODE			
130	NS	NS	PRI COMP A3 D CODE			
131	NS	NS	SEC COMP A3 D CODE			
132	NS	NS	PRI COMP A4 A CODE			
133	NS	NS	SEC COMP A4 A CODE			
134	NS	NS	PRI COMP A4 B CODE			
135	NS	NS	SEC COMP A4 B CODE			
136	NS	NS	PRI COMP A4 C CODE			
137	NS	NS	SEC COMP A4 C CODE			
138	NS	NS	PRI COMP A4 D CODE			
139	NS	NS	SEC COMP A4 D CODE	4P	HRHS	311713
141	NS	NS	PRI COMP A5 A CODE	4P	HRHS	311713
142	NS	NS	SEC COMP A5 A CODE			
143	NS	NS	PRI COMP A5 B CODE			
144	NS	NS	SEC COMP A5 B CODE			
145	NS	NS	PRI COMP A5 C CODE			
146	NS	NS	SEC COMP A5 C CODE			
147	NS	NS	PRI COMP A5 D CODE			
148	NS	NS	SEC COMP A5 D CODE	4P	HRHS	311713
151	14	14	PRI SEQ SPLIT	4W	HR	196208
152	14	14	SEC SEQ SPLIT	4W	HR	196208
153	14	14	COMPARE SPLIT	4W	HR	196208
154	14	14	COMPARE SPLIT	4W	HR	196208
155	7	8	PRI CL I DELAY	4P	HR	311712
156	7	8	SEC CL I DELAY	4P	HR	311712

RELAY NO	COILS		NAME	SIZE	TYPE	PART NO
	P	H				
160	NS	NS	PRI COMP A6 A CODE	4P	HRHS	311713
161	NS	NS	SEC COMP A6 A CODE			
162	NS	NS	PRI COMP A6 B CODE			
163	NS	NS	SEC COMP A6 B CODE			
164	NS	NS	PRI COMP A6 C CODE			
165	NS	NS	SEC COMP A6 C CODE			
166	NS	NS	PRI COMP A6 D CODE			
167	NS	NS	SEC COMP A6 D CODE			
168	NS	NS	PRI COMP A7 A CODE			
169	NS	NS	SEC COMP A7 A CODE			
170	NS	NS	PRI COMP A7 B CODE			
171	NS	NS	SEC COMP A7 B CODE			
172	NS	NS	PRI COMP A7 C CODE			
173	NS	NS	SEC COMP A7 C CODE			
174	NS	NS	PRI COMP A7 D CODE			
175	NS	NS	SEC COMP A7 D CODE	4P	HRHS	311713
177	NS	NS	PRI COMP A8 A CODE	4P	HRHS	311713
178	NS	NS	SEC COMP A8 A CODE			
179	NS	NS	PRI COMP A8 B CODE			
180	NS	NS	SEC COMP A8 B CODE			
181	NS	NS	PRI COMP A8 C CODE			
182	NS	NS	SEC COMP A8 C CODE			
183	NS	NS	PRI COMP A8 D CODE			
184	NS	NS	SEC COMP A8 D CODE			
185	NS	NS	PRI COMP A9 A CODE			
186	NS	NS	SEC COMP A9 A CODE			
187	NS	NS	PRI COMP A9 B CODE			
188	NS	NS	SEC COMP A9 B CODE			
189	NS	NS	PRI COMP A9 C CODE			
190	NS	NS	SEC COMP A9 C CODE			
191	NS	NS	PRI COMP A9 D CODE			
192	NS	NS	SEC COMP A9 D CODE	4P	HRHS	311713
194	NS	NS	PRI COMP A10 A CODE	4P	HRHS	311713
195	NS	NS	SEC COMP A10 A CODE			
196	NS	NS	PRI COMP A10 B CODE			
197	NS	NS	SEC COMP A10 B CODE			
198	NS	NS	PRI COMP A10 C CODE			
199	NS	NS	SEC COMP A10 C CODE			
200	NS	NS	PRI COMP A10 D CODE			
201	NS	NS	SEC COMP A10 D CODE			
202	18	26	PRI COMP A11 A CODE			
203	22	26	SEC COMP A11 A CODE			
204	18	26	PRI COMP A11 B CODE			
205	22	26	SEC COMP A11 B CODE			
206	18	26	PRI COMP A11 C CODE			
207	22	26	SEC COMP A11 C CODE			
208	18	26	PRI COMP A11 D CODE			
209	22	26	SEC COMP A11 D CODE	4P	HRHS	311713
210	14	14	SEQ SHIFT	12W	HR	255735

NOTE: REFER TO SEC 46 FOR RELAY TERMINAL CONNECTION

INTERNATIONAL BUSINESS MACHINES CORP.				DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME				8-11-60	800945U			X PRINT TO ENG. SPEC. NO. 895291	
DESIGN				3-24-64	807508				
DETAIL									
CHECK									
APPRO									

603663

RELAY LOCATION

603664

RELAY NO	COILS		NAME	SIZE	TYPE	PART NO
	P	H				
213	20	26	PRI COMP B1 A CODE	4P	HRHS	311713
214	24	26	SEC COMP B1 A CODE			
215	20	26	PRI COMP B1 B CODE			
216	24	26	SEC COMP B1 B CODE			
217	20	26	PRI COMP B1 C CODE			
218	24	26	SEC COMP B1 C CODE			
219	20	26	PRI COMP B1 D CODE			
220	24	26	SEC COMP B1 D CODE			
221	NS	NS	PRI COMP B2 A CODE			
222	NS	NS	SEC COMP B2 A CODE			
223	NS	NS	PRI COMP B2 B CODE			
224	NS	NS	SEC COMP B2 B CODE			
225	NS	NS	PRI COMP B2 C CODE			
226	NS	NS	SEC COMP B2 C CODE	↓	↓	↓
227	NS	NS	PRI COMP B2 D CODE	↓	↓	↓
228	NS	NS	SEC COMP B2 D CODE	4P	HRHS	311713
230	NS	NS	PRI COMP B3 A CODE	4P	HRHS	311713
231	NS	NS	SEC COMP B3 A CODE			
232	NS	NS	PRI COMP B3 B CODE			
233	NS	NS	SEC COMP B3 B CODE			
234	NS	NS	PRI COMP B3 C CODE			
235	NS	NS	SEC COMP B3 C CODE			
236	NS	NS	PRI COMP B3 D CODE			
237	NS	NS	SEC COMP B3 D CODE			
238	NS	NS	PRI COMP B4 A CODE			
239	NS	NS	SEC COMP B4 A CODE			
240	NS	NS	PRI COMP B4 B CODE			
241	NS	NS	SEC COMP B4 B CODE			
242	NS	NS	PRI COMP B4 C CODE			
243	NS	NS	SEC COMP B4 C CODE	↓	↓	↓
244	NS	NS	PRI COMP B4 D CODE	↓	↓	↓
245	NS	NS	SEC COMP B4 D CODE	4P	HRHS	311713
247	NS	NS	PRI COMP B5 A CODE	4P	HRHS	311713
248	NS	NS	SEC COMP B5 A CODE			
249	NS	NS	PRI COMP B5 B CODE			
250	NS	NS	SEC COMP B5 B CODE			
251	NS	NS	PRI COMP B5 C CODE			
252	NS	NS	SEC COMP B5 C CODE			
253	NS	NS	PRI COMP B5 D CODE			
254	NS	NS	SEC COMP B5 D CODE			
255	38	38	SELECTOR #1			
256	38	38	SELECTOR #2			
257	38	38	SELECTOR #3	↓	↓	↓
258	38	38	SELECTOR #4			
259	38	38	SELECTOR #5	4P	HRHS	311713
260	14	14	SEQ SHIFT	12W	HR	255735
263	14	14	SEQ SHIFT	12W	HR	255735

RELAY NO	COILS		NAME	SIZE	TYPE	PART NO
	P	H				
266	NS	NS	PRI COMP B6 A CODE	4P	HRHS	311713
267	NS	NS	SEC COMP B6 A CODE			
268	NS	NS	PRI COMP B6 B CODE			
269	NS	NS	SEC COMP B6 B CODE			
270	NS	NS	PRI COMP B6 C CODE			
271	NS	NS	SEC COMP B6 C CODE			
272	NS	NS	PRI COMP B6 D CODE			
273	NS	NS	SEC COMP B6 D CODE			
274	NS	NS	PRI COMP B7 A CODE			
275	NS	NS	SEC COMP B7 A CODE			
276	NS	NS	PRI COMP B7 B CODE			
277	NS	NS	SEC COMP B7 B CODE			
278	NS	NS	PRI COMP B7 C CODE			
279	NS	NS	SEC COMP B7 C CODE	↓	↓	↓
280	NS	NS	PRI COMP B7 D CODE	↓	↓	↓
281	NS	NS	SEC COMP B7 D CODE	4P	HRHS	311713
283	NS	NS	PRI COMP B8 A CODE	4P	HRHS	311713
284	NS	NS	SEC COMP B8 A CODE			
285	NS	NS	PRI COMP B8 B CODE			
286	NS	NS	SEC COMP B8 B CODE			
287	NS	NS	PRI COMP B8 C CODE			
288	NS	NS	SEC COMP B8 C CODE			
289	NS	NS	PRI COMP B8 D CODE			
290	NS	NS	SEC COMP B8 D CODE			
291	NS	NS	PRI COMP B9 A CODE			
292	NS	NS	SEC COMP B9 A CODE			
293	NS	NS	PRI COMP B9 B CODE			
294	NS	NS	SEC COMP B9 B CODE			
295	NS	NS	PRI COMP B9 C CODE			
296	NS	NS	SEC COMP B9 C CODE	↓	↓	↓
297	NS	NS	PRI COMP B9 D CODE	↓	↓	↓
298	NS	NS	SEC COMP B9 D CODE	4P	HRHS	311713
300	NS	NS	PRI COMP B10 A CODE	4P	HRHS	311713
301	NS	NS	SEC COMP B10 A CODE			
302	NS	NS	PRI COMP B10 B CODE			
303	NS	NS	SEC COMP B10 B CODE			
304	NS	NS	PRI COMP B10 C CODE			
305	NS	NS	SEC COMP B10 C CODE			
306	NS	NS	PRI COMP B10 D CODE			
307	NS	NS	SEC COMP B10 D CODE			
308	20	26	PRI COMP B11 A CODE			
309	24	26	SEC COMP B11 A CODE			
310	20	26	PRI COMP B11 B CODE			
311	24	26	SEC COMP B11 B CODE			
312	20	26	PRI COMP B11 C CODE			
313	24	26	SEC COMP B11 C CODE	↓	↓	↓
314	20	26	PRI COMP B11 D CODE	↓	↓	↓
315	24	26	SEC COMP B11 D CODE	4P	HRHS	311713
316	14	14	SEQ SHIFT	12W	HR	255735

NOTE: REFER TO SEC 46 FOR RELAY TERMINAL CONNECTION

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	WIRING DIAGRAM 88	8-11-60	800945U			X PRINT TO ENG. SPEC. NO.	
DESIGN	5-6-60	3-24-64	807508			895291	
DETAIL	5-5-60						
CHECK	ACK 8-18-60	DRAW	DB 6-7-60				
APPRO	ACK 8-18-60	CHECK	PW 6-8-60				
							603664

RELAY LOCATION

603665

RELAY NO	COILS		NAME	SIZE	TYPE	PART NO
	P	H				
319	29	32	PRI SEQ A1	4P	HRHS	311713
320	29	32	PRI A1			
321	NS	NS	PRI SEQ A2			
322	NS	NS	PRI A2			
323	NS	NS	PRI SEQ A3			
324	NS	NS	PRI A3	↓	↓	↓
325	NS	NS	PRI SEQ A4			
326	NS	NS	PRI A4	4P	HRHS	311713
328	NS	NS	PRI SEQ A5	4P	HRHS	311713
329	NS	NS	PRI A5			
330	NS	NS	PRI SEQ A6			
331	NS	NS	PRI A6	↓	↓	↓
332	NS	NS	PRI SEQ A7			
333	NS	NS	PRI A7	4P	HRHS	311713
335	NS	NS	PRI SEQ A8	4P	HRHS	311713
336	NS	NS	PRI A8			
337	NS	NS	PRI SEQ A9			
338	NS	NS	PRI A9	↓	↓	↓
339	NS	NS	PRI SEQ A10			
340	NS	NS	PRI A10	4P	HRHS	311713
342	NS	NS	PRI SEQ A11	4P	HRHS	311713
343	NS	NS	PRI A11	4P	HRHS	311713
345	NS	NS	PRI SEQ B1	4P	HRHS	311713
346	NS	NS	PRI B1			
347	NS	NS	PRI SEQ B2			
348	NS	NS	PRI B2			
349	NS	NS	PRI SEQ B3			
350	NS	NS	PRI B3	↓	↓	↓
351	NS	NS	PRI SEQ B4			
352	NS	NS	PRI B4	4P	HRHS	311713
354	NS	NS	PRI SEQ B5	4P	HRHS	311713
355	NS	NS	PRI B5			
356	NS	NS	PRI SEQ B6			
357	NS	NS	PRI B6	↓	↓	↓
358	NS	NS	PRI SEQ B7			
359	NS	NS	PRI B7	4P	HRHS	311713
361	NS	NS	PRI SEQ B8	4P	HRHS	311713
362	NS	NS	PRI B8			
363	NS	NS	PRI SEQ B9			
364	NS	NS	PRI B9	↓	↓	↓
365	NS	NS	PRI SEQ B10			
366	NS	NS	PRI B10	4P	HRHS	311713
368	29	32	PRI SEQ B11	4P	HRHS	311713
369	29	32	PRI B11	4P	HRHS	311713

RELAY NO	COILS		NAME	SIZE	TYPE	PART NO
	P	H				
372	29	32	SEC SEQ A1	4P	HRHS	311713
373	29	32	SEC A1			
374	NS	NS	SEC SEQ A2			
375	NS	NS	SEC A2			
376	NS	NS	SEC SEQ A3			
377	NS	NS	SEC A3	↓	↓	↓
378	NS	NS	SEC SEQ A4			
379	NS	NS	SEC A4	4P	HRHS	311713
381	NS	NS	SEC SEQ A5	4P	HRHS	311713
382	NS	NS	SEC A5			
383	NS	NS	SEC SEQ A6			
384	NS	NS	SEC A6	↓	↓	↓
385	NS	NS	SEC SEQ A7			
386	NS	NS	SEC A7	4P	HRHS	311713
388	NS	NS	SEC SEQ A8	4P	HRHS	311713
389	NS	NS	SEC A8			
390	NS	NS	SEC SEQ A9			
391	NS	NS	SEC A9	↓	↓	↓
392	NS	NS	SEC SEQ A10			
393	NS	NS	SEC A10	4P	HRHS	311713
395	NS	NS	SEC SEQ A11	4P	HRHS	311713
396	NS	NS	SEC A11	4P	HRHS	311713
398	NS	NS	SEC SEQ B1	4P	HRHS	311713
399	NS	NS	SEC B1			
400	NS	NS	SEC SEQ B2			
401	NS	NS	SEC B2			
402	NS	NS	SEC SEQ B3			
403	NS	NS	SEC B3	↓	↓	↓
404	NS	NS	SEC SEQ B4			
405	NS	NS	SEC B4	4P	HRHS	311713
407	NS	NS	SEC SEQ B5	4P	HRHS	311713
408	NS	NS	SEC B5			
409	NS	NS	SEC SEQ B6			
410	NS	NS	SEC B6	↓	↓	↓
411	NS	NS	SEC SEQ B7			
412	NS	NS	SEC B7	4P	HRHS	311713
414	NS	NS	SEC SEQ B8	4P	HRHS	311713
415	NS	NS	SEC B8			
416	NS	NS	SEC SEQ B9			
417	NS	NS	SEC B9	↓	↓	↓
418	NS	NS	SEC SEQ B10			
419	NS	NS	SEC B10	4P	HRHS	311713
421	29	32	SEC SEQ B11	4P	HRHS	311713
422	29	32	SEC B11	4P	HRHS	311713

NOTE: REFER TO SEC 46 FOR RELAY TERMINAL CONNECTION

INTERNATIONAL BUSINESS MACHINES CORP.			DATE	CHANGE NO.	DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	WIRING DIAGRAM 88		8-11-60	800945U			X PRINT TO ENG. SPEC. NO. 895291	
DESIGN	SM 5-6-60		3-24-64	807508				
DETAIL	SM 5-6-60							
CHECK	KKK 8-18-60	DRAW DB 6-7-60						
APPRO	KKK 8-18-60	CHECK PW 6-8-60						603665

603666

C CAMS PRIMARY UPPER UNIT

CLUTCH LATCH
310

NO	LOC	NAME	PART NO	DUR	M. T.	TOL	B. T.	TOL	18	36	54	72	90	108	126	144	162	180	198	216	234	252	270	288	306	324	342	360		
C1	4	RUN PICKUP	602113	51°	79°	+2 -5	130°	±2					79°		130°	82-132														
C2	4	RUN HOLD	602128	320°	124°	±2	84°	+5 -3					84°		124°	126-84														
C3	5	JAM TEST	602110	30°	267°	±3	297°	±5															267°	297°						
C4	5	CARD LEVER TEST	602111	35°	140°	±3	175°	±5							140°	175°														
C5	5	CARD LEVER PICKUP	602114	70°	245°	+0 -2	315°	±5															245°			315°				
C6	8	CARD LEVER HOLD	602127	300°	306°	±5	246°	+2 -0															246°			306°				
C7	8	CARD LEVER TIMER	602120	150°	180°	±2	330°	+3 -2											180°									330°		
C8	16	PRI HOT 9 & 0	602970	20°-2 LOBES		±2		±3	2°	22°								164°	184°											
C9	16	PRI X	602109	20°	183°	±2	203°	±2											183°	203°										
C10	16	PRI 0	602109	20°	164°	±2	184°	±2	13-26	26-63									164°	184°										
C11	17	PRI CODE A	603110	14°-2 LOBES		±1		±1	11°	25°	47°	61°	66-81																	
C12	17	PRI CODE A	603110	14°-2 LOBES		±1		±1	29°	43°	65°	79°	79-116																	
C13	17	PRI CODE B	603112	14°-2 LOBES		±1		±1	11°	25°	31-43			101°	115°															
C14	17	PRI CODE B	603110	14°-2 LOBES		±1		±1	11-26				83°	97°	119°	133°	121-154													
C15	17	PRI CODE C	603113	14°-2 LOBES		±1		±1	29°	43°	32-44			137°	151°															
C16	17	PRI CODE C	603111	14°-2 LOBES		±1		±1					83°	97°	155°	169°														
C17	17	PRI CODE D	603114	14°-4 LOBES		±1		±1	47°	61°	9-62			101°	115°	137°	151°	173°	187°	173-184										
C18	29	PRI SEQ COLLECTOR	602122	190°	357°	±3	187°	+1 -2																				357°	350	
C19	32	PRI SEQ HOLD	602120	150°	172°	±3	322°	±5																				322°	323	
C20	33	CODE LIGHT	602114	70°	240°	±3	310°	±3																240°			310°			

0 18 36 54 72 90 108 126 144 162 180 198 216 234 252 270 288 306 324 342 360

INTERNATIONAL BUSINESS MACHINES CORP.
 NAME: WIRING DIAGRAM 88
 DESIGN: 5-6-60 MODEL: 88
 CHECK: 5-6-60
 APPRO: 5-6-60
 DATE: 8-11-60
 CHANGE NO.: 800945U
 DATE: 10-7-60
 CHANGE NO.: 801779
 DATE: 12-28-61
 CHANGE NO.: 802878
 NOTE: X PERT TO ENG. SPEC. NO. 895291
 DEVELOPMENT NO. 603666
 SECTION 51

SECTION 51

603667

C CAMS SECONDARY UPPER UNIT

CLUTCH LATCH
310

NO.	LOC	NAME	PART NO	DUR	M. T.	TOL	B. T.	TOL	18	36	54	72	90	108	126	144	162	180	198	216	234	252	270	288	306	324	342	360		
C21	16	SEC HOT 9 & 0	602970	20°-2 LOBES		±2		±3												200°	220°									
C22	16	SEC 0	602109	20°	38°	±2	58°	±2																						
C23	16	SEC X	602109	20°	21°	±2	41°	±2																						
C24	17	SEC CODE A	603110	14°-2 LOBES		±1		±1												173°	187°	209°	223°							
C25	17	SEC CODE A	603110	14°-2 LOBES		±1		±1																						
C26	17	SEC CODE B	603112	14°-2 LOBES		±1		±1																						
C27	17	SEC CODE B	603110	14°-2 LOBES		±1		±1																						
C28	17	SEC CODE C	603113	14°-2 LOBES		±1		±1																						
C29	17	SEC CODE C	603111	14°-2 LOBES		±1		±1																						
C30	17	SEC CODE D	603115	14°-4 LOBES		±1		±1																						
C31	34	ANSWER COLLECTOR	602122	190°	220°	±5	50°	±3																						
C32	29	SEC SEQ COLLECTOR	603594	200°	38°	±2	238°	±5																						
C33	32	SEC SEQ HOLD	603593	95°	223°	±3	318°	±3																						
C34	13	READ IN PICKUP	602111	35°	300°	±3	335°	±3																						
C35	13	READ IN HOLD	602128	320°	325°	±3	285°	±3																						
C36	9	TEST HOLD	602128	320°	260°	±5	220°	±3																						
C37	26	SEC COMP A HOLD	602128	320°	358°	±3	318°	+1 -3																						
C38	26	SEC COMP B HOLD	602128	320°	358°	±3	318°	+1 -3																						
C39	29	ZERO SUPPRESS	602121	170°	63°	+1 -2	233°	+3 -2																						
C40	32	SEC SEQ HOLD	608604	100°	228°		328°	±3																						

0 18 36 54 72 90 108 126 144 162 180 198 216 234 252 270 288 306 324 342 360

INTERNATIONAL BUSINESS MACHINES CORP.
 NAME | WIRING DIAGRAM | 88
 DESIGN | S-6-60 | MODEL | 88
 CHECK | 8-16-60 | DRAW | DB | 6-7-60
 APPRO | 8-16-60 | CHECK | PW | 6-8-60
 DATE | CHANGE NO. | DATE | CHANGE NO. | NOTE
 8-11-60 | 800945U | 1-11-61 | 802145 | X PRINT TO ENG. SPEC. NO. 895291
 10-7-60 | 801779 | 5-21-62 | 802662
 DEVELOPMENT NO. | 603667
 SECTION 52

SECTION 52

603668

C CAMS PRIMARY LOWER UNIT

CLUTCH LATCH
310

NO	LOC	NAME	PART NO	DUR	M. T.	TOL	B. T.	TOL	18	36	54	72	90	108	126	144	162	180	198	216	234	252	270	288	306	324	342	360			
C41	10	COMP INLK	602128	320°	40°	±2	360°	±3 -2																					360°		
C42	10	COMP INLK PICKUP	602113	51°	354°	±2 -3	45°	±2																						354°	
C43	11	ALL CYCLES	602113	51°	267°	±2	318°	±5																							
C44	34	COMPARE TEST	602111	35°	225°	±2	260°	±5																							
C45	7	POCKET MAGNET	602115	80°	265°	±3	345°	±5 -0																							
C46	9	TEST PICKUP	602113	51°	244°	±2	295°	±5																							
C47	38	SELECTOR HOLD	602110	30°	342°	±2	12°	±3 -0																							
C48	4	START HOLD	602128	320°	69°	±5	29°	±5																							
C49	10	BLANK COL TEST	602113	51°	244°	±2	295°	±2 -3																							
C50	10	STORAGE CLEAR	602115	80°	290°	±3	10°	±3																							
C51	26	COMPARE A HOLD PRI	602128	320°	358°	±3	318°	±1 -3																							
C52	26	COMPARE B HOLD PRI	602128	320°	358°	±3	318°	±1 -3																							
C53	20	DPBC	602127	300°	22°	±5	322°	±5																							
C54	38	SELECTOR CONTROL	602129	340°	218°	±3	198°	±2 -1																							

0 18 36 54 72 90 108 126 144 162 180 198 216 234 252 270 288 306 324 342 360

DESIGN	5-1-60	MODEL	88
DRAW	5-1-60	DATE	8-11-60
CHECK	5-1-60	CHANGE NO.	800945U
APPRO	5-1-60	DATE	12-28-61
	8-18-64	CHANGE NO.	802878
		DATE	5-21-62
		CHANGE NO.	802662
		DATE	9-20-62
		CHANGE NO.	802662K
		DATE	4-23-63
		CHANGE NO.	805087
NOTE X PRINT TO ENG. SPEC. NO. 895291			
DEVELOPMENT NO. 603668			
SECTION 53			

603669

P AND S CAMS

CLUTCH LATCH
310

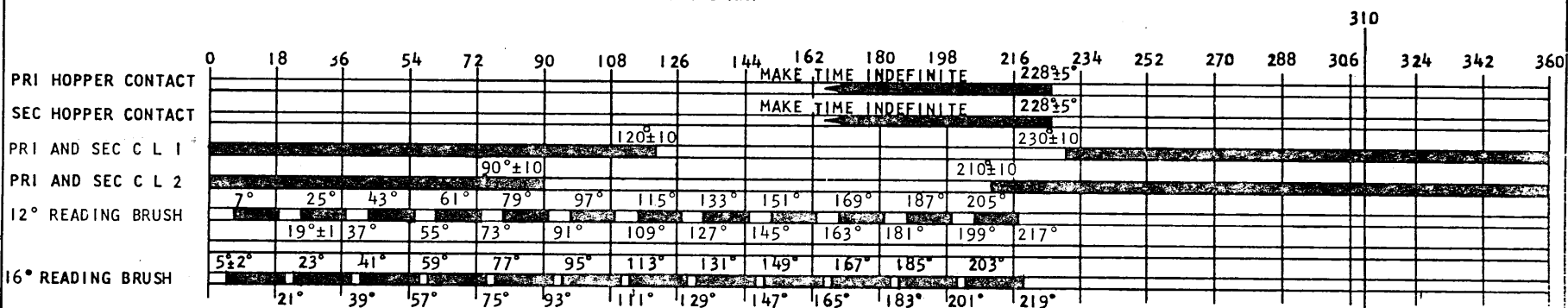
NO.	LOC	NAME	PART NO	DUR	M. T.	TOL	B. T.	TOL	CAMS																																	
									18	36	54	72	90	108	126	144	162	180	198	216	234	252	270	288	306	324	342	360														
P2	16	PRI IMPULSE MAKE	602132	18°-6 LOBES		*		±5	10°		46°		82°		118°		154°		190°																							
P3	16	PRI IMPULSE BREAK	602132	18°-6 LOBES				±5		15°		51°		87°		123°		159°		195°																						
P4	16	PRI IMPULSE MAKE	602132	18°-6 LOBES		*		±5			28°		64°		100°		136°		172°		208°																					
P5	16	PRI IMPULSE BREAK	602132	18°-6 LOBES				±5			33°		69°		105°		141°		177°		213°																					
P6	15	BLANK COL TEST CTR	602122	190°	345°	±5	175°	±1											175°	178°																						
P7	8	PRI RESET HOLD	602120	150°	172°	±5	322°	±2											172°	173°																						
P8	7	PRI FEED PICKUP	602124	232°	320°	±5	192°	±2												192°	191°																					
P9	38	PRI SELECTOR	602129	340°	8°	$\begin{smallmatrix} +0 \\ -3 \end{smallmatrix}$	348°	±2																																		
S2	16	SEC IMPULSE MAKE	602132	18°-6 LOBES		*		±5	10°		46°		82°		118°		154°		190°																							
S3	16	SEC IMPULSE BREAK	602132	18°-6 LOBES				±5		15°		51°		87°		123°		159°		195°																						
S4	16	SEC IMPULSE MAKE	602132	18°-6 LOBES		*		±5			28°		64°		100°		136°		172°		208°																					
S5	16	SEC IMPULSE BREAK	602132	18°-6 LOBES				±5			33°		69°		105°		141°		177°		213°																					
S6	15	BLANK COL TEST CTR	602125	250°	325°	±5	215°	$\begin{smallmatrix} +3 \\ -0 \end{smallmatrix}$																																		
S7	8	SEC RESET HOLD	602118	122°	208°	±2	330°	±5													208°																					
S8	7	SEC FEED PICKUP	602126	260°	320°	$\begin{smallmatrix} +2 \\ -3 \end{smallmatrix}$	220°	±2													220°																					
S9	38	SEC SELECTOR	602129	340°	8°	$\begin{smallmatrix} +0 \\ -3 \end{smallmatrix}$	348°	±2																																		

* ADJUST MAKE TIME TO GIVE NOT MORE THAN 5° NOR LESS THAN 3° OVERLAP WITH BREAK CAM

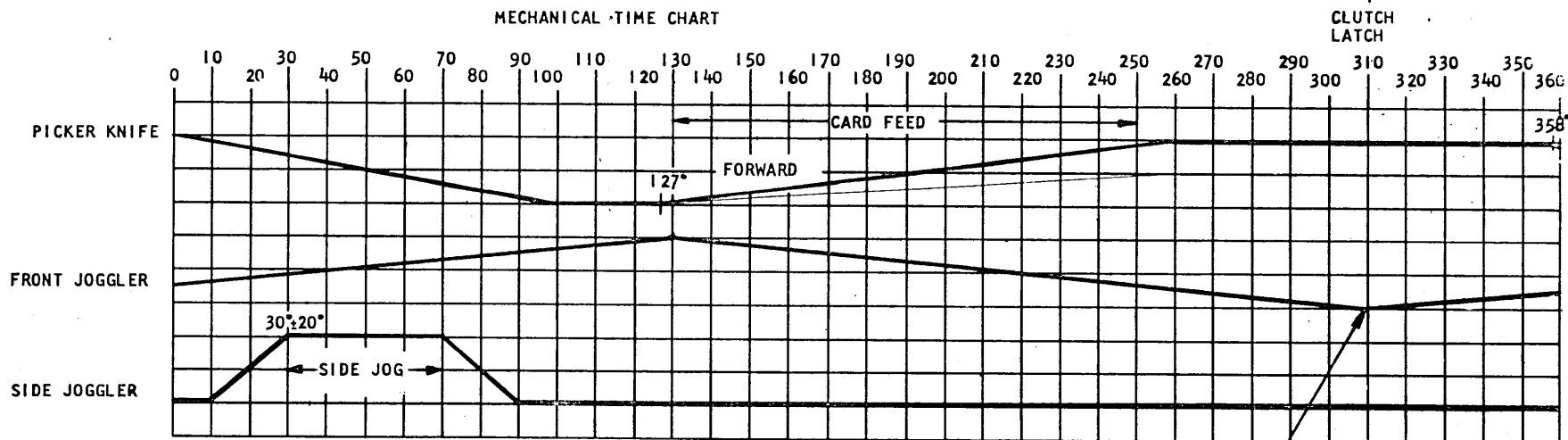
DESIGN	8/1	5-6-60	MODEL	88
DETAIL	8/1	5-6-60		
CHECK	8/1	8-16-60	DRW	DB
APP'D	8/1	8-16-60	CHECK	PV
DATE	8-11-60			
CHANGE NO.	800945U			
DATE	12-28-61			
CHANGE NO.	802878			
NOTE	X PRINT TO ENG. SPEC. NO. 895291			
DEVELOPMENT NO.	603669			

603670

ELECTRICAL TIMING CHART



MECHANICAL TIME CHART



CONVERSION CHART

1 CYCLE	92.31 MS
1 CYCLE	20 POINTS
1 POINT	4.62 MS
1 MS	3.90°
1 DEGREE	.256 MS

MS - MILLISECOND

NOTES

- X RELAY, LIGHT AND -70V COMMONS NOT NECESSARILY COMMONED AS SHOWN.
- XI RESISTOR VALUES SHOWN IN OHMS AND CAPACITOR VALUES SHOWN IN MICRO-FARAD UNLESS OTHERWISE NOTED.

INTERNATIONAL BUSINESS MACHINES CORP.		DATE	CHANGE NO.	NOTE	DEVELOPMENT NO.
NAME	WIRING DIAGRAM	8-11-60	800945U	X PRINT TO ENCL. SPEC. NO. 895291	603670
MODEL	88	5-21-62	802662		
DESIGN	5-7-60	8-7-62	802662J		
CHECK	F-18-60 DRAW				
APPRO	F-16-60 CHECK				
	DB 6-7-60				
	PW 6-8-60				

SECTION 55

SECTION 55