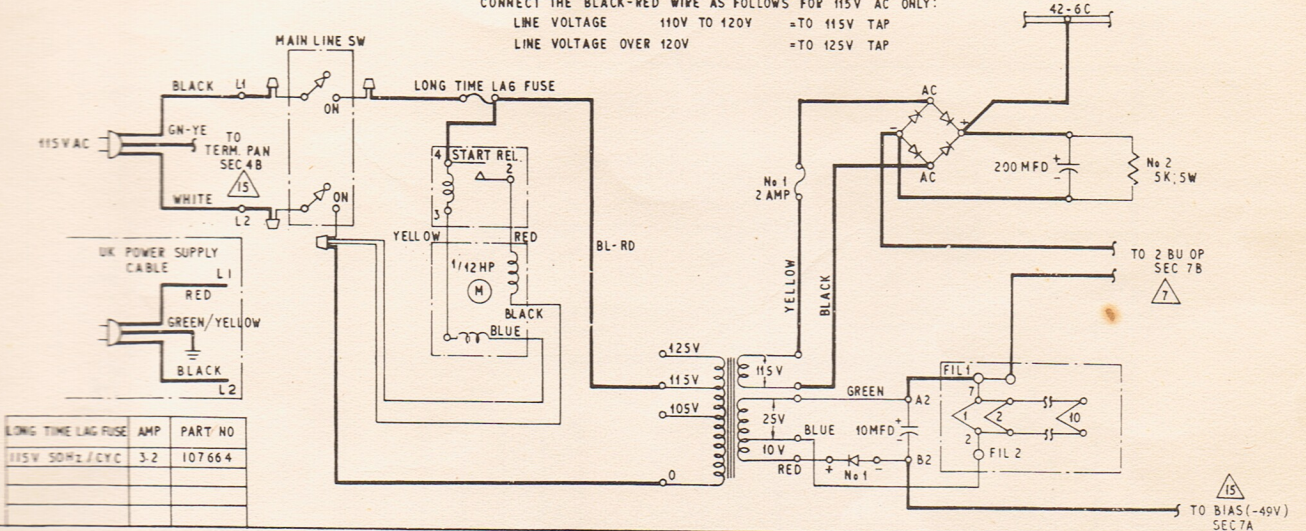


**IBM**  
WIRING DIAGRAM

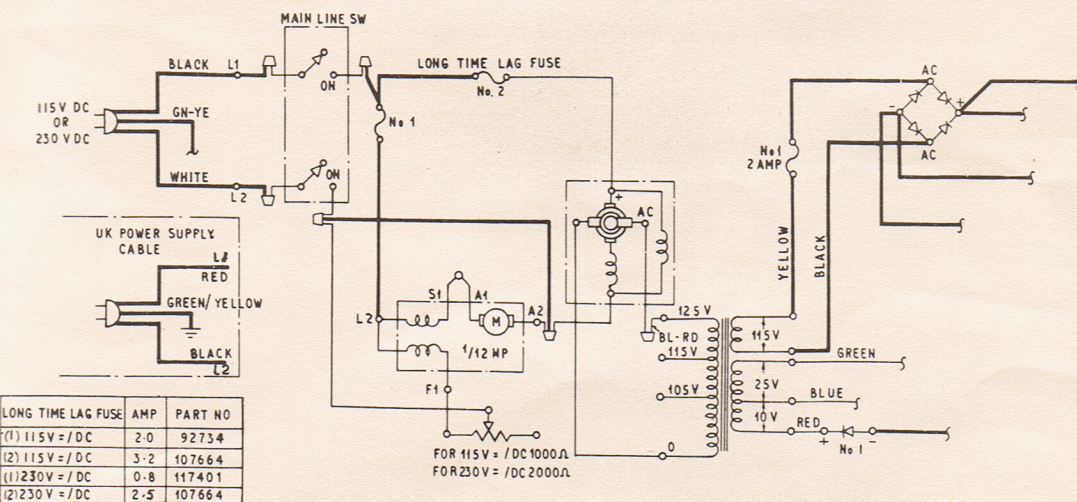
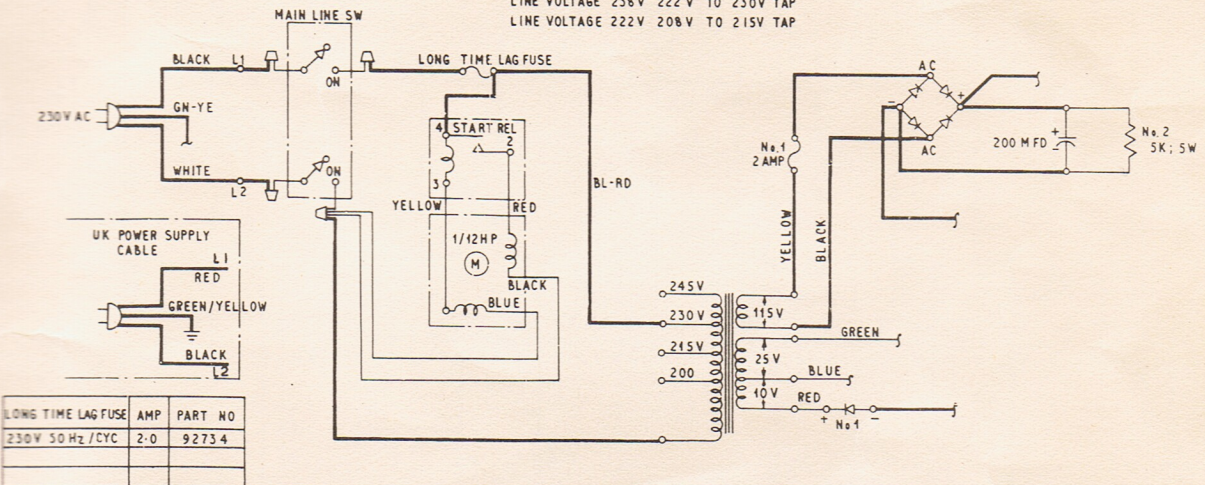
No. 4 281101  
CARD PUNCH TYPE 024-A1  
PRINTING CARD PUNCH TYPE 026-A1



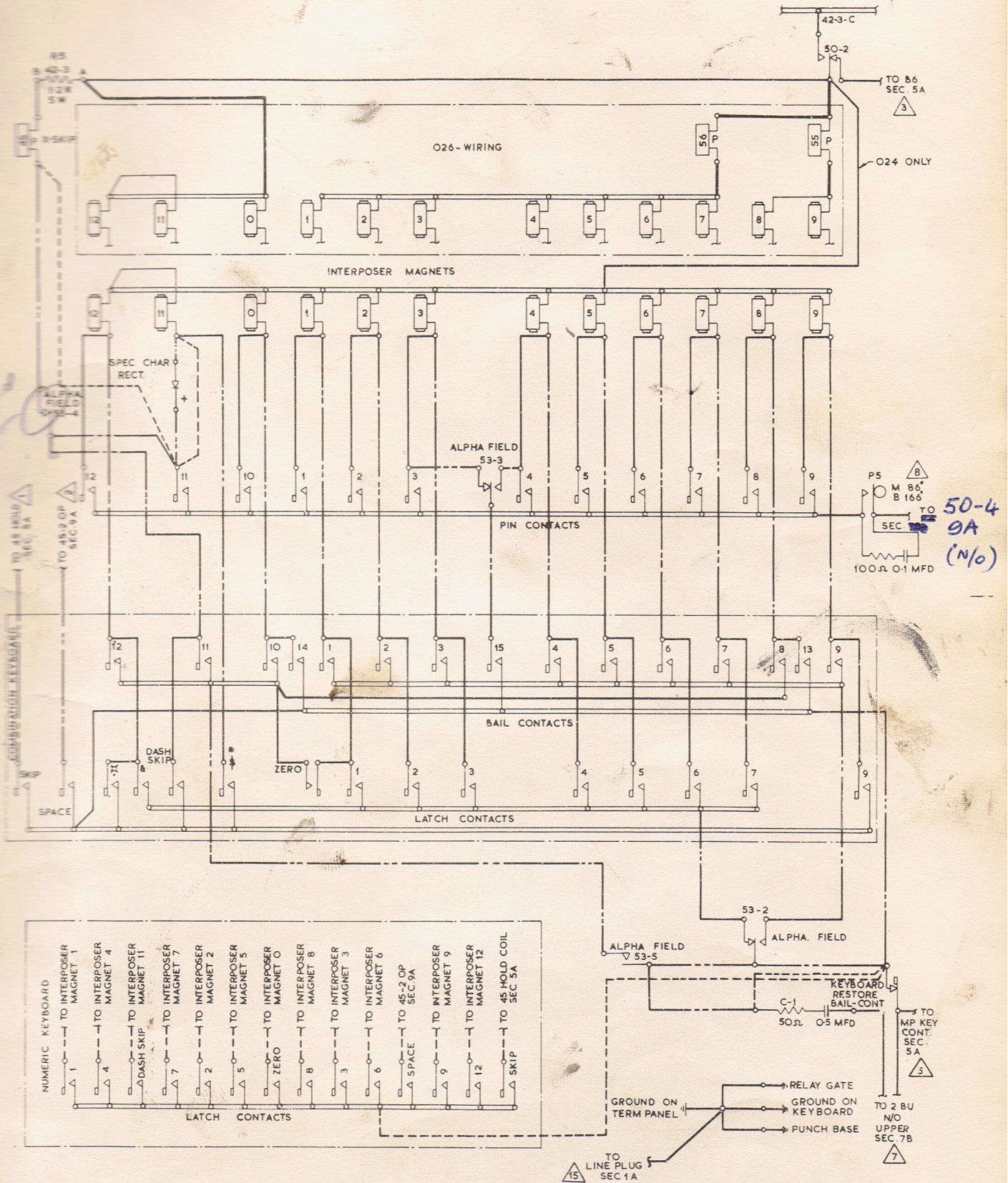
CONNECT THE BLACK-RED WIRE AS FOLLOWS FOR 115V AC ONLY:  
 LINE VOLTAGE 110V TO 120V =TO 115V TAP  
 LINE VOLTAGE OVER 120V =TO 125V TAP



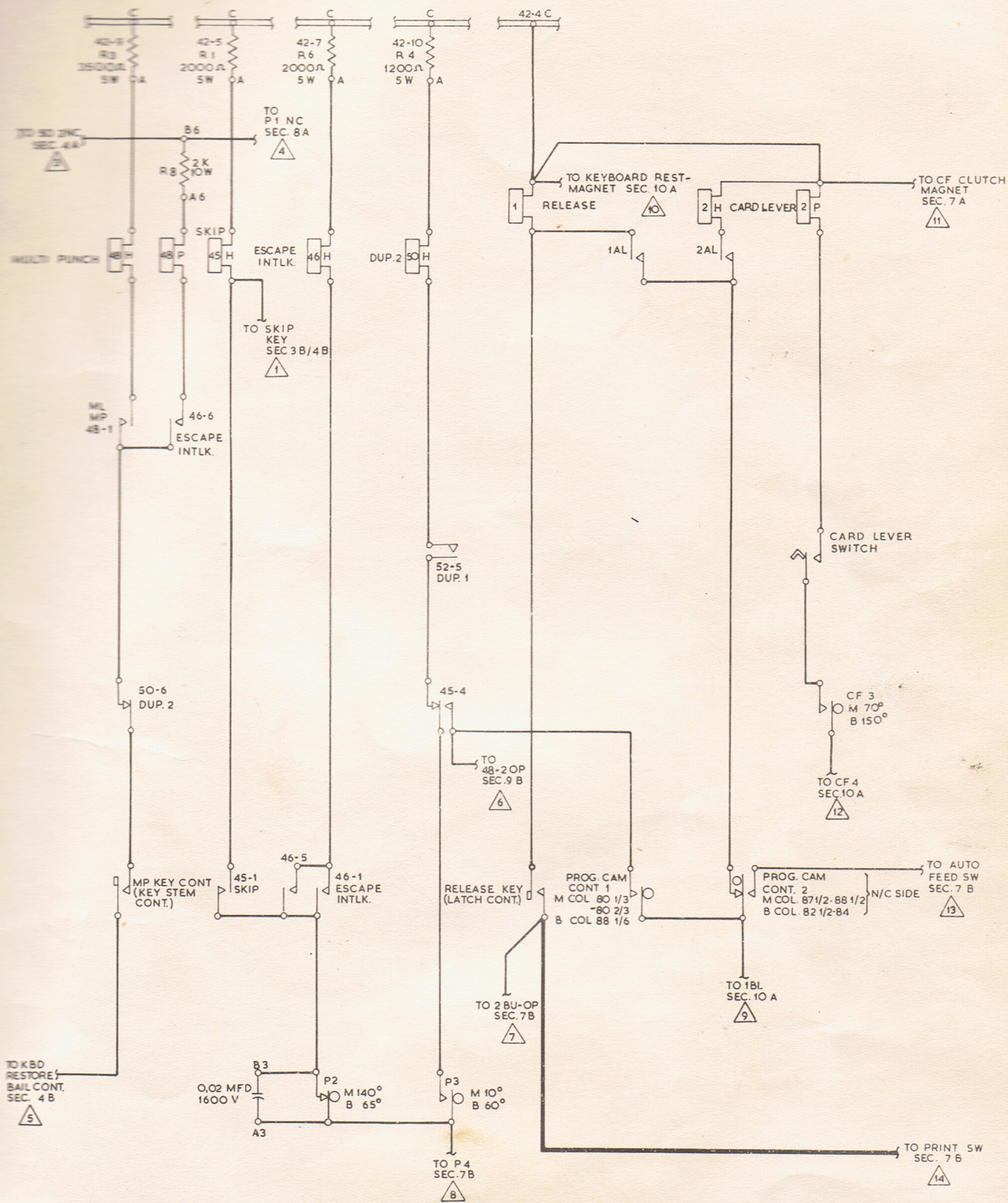
CONNECT THE BLACK-RED WIRE AS FOLLOWS FOR 230V AC ONLY  
 LINE VOLTAGE 252V 238V TO 245V TAP  
 LINE VOLTAGE 238V 222V TO 230V TAP  
 LINE VOLTAGE 222V 208V TO 215V TAP



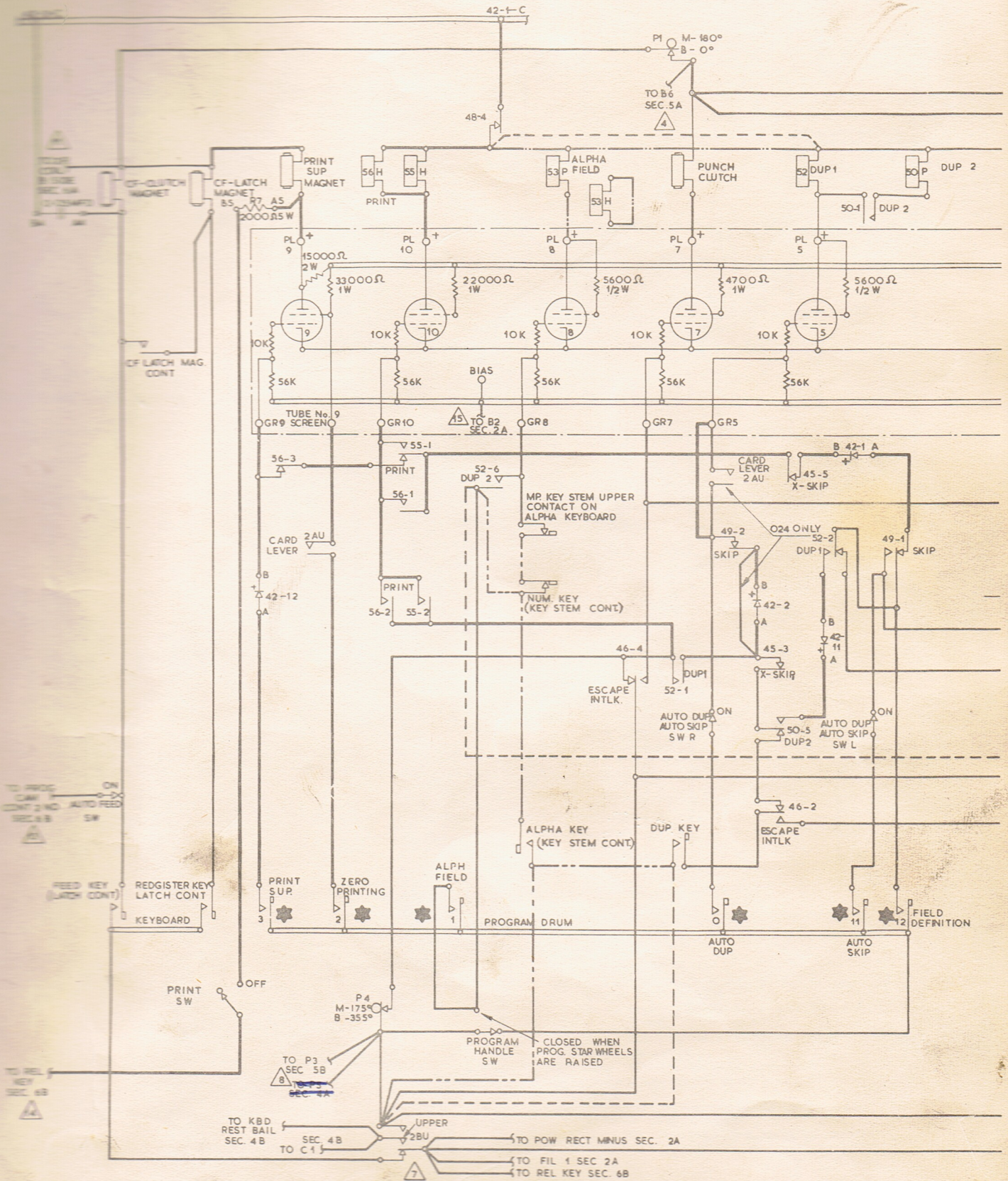




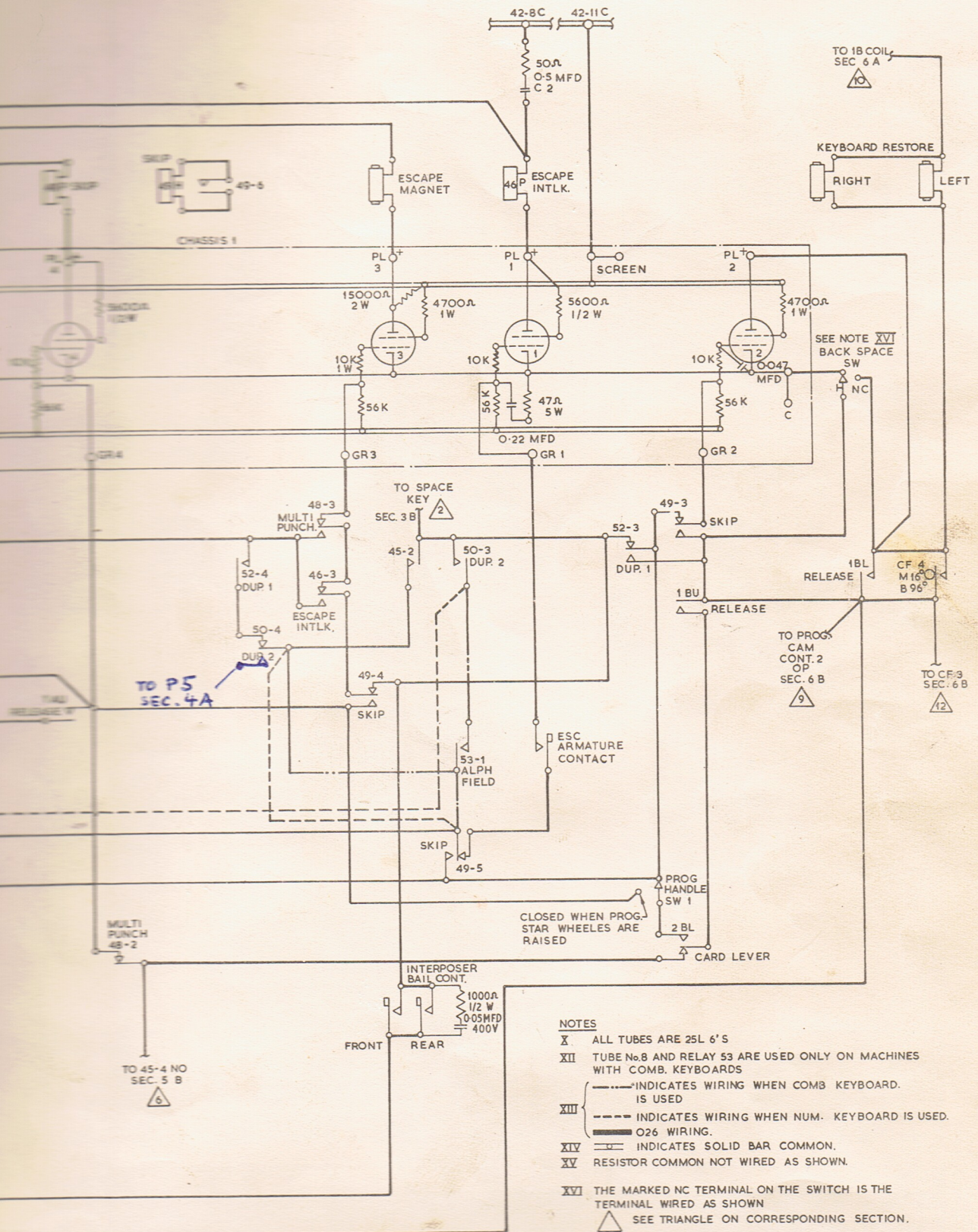












NOTES

- X ALL TUBES ARE 25L 6'S
- XII TUBE No.8 AND RELAY 53 ARE USED ONLY ON MACHINES WITH COMB. KEYBOARDS
- XIII  INDICATES WIRING WHEN COMB. KEYBOARD IS USED
- XIII  INDICATES WIRING WHEN NUM. KEYBOARD IS USED.
- XIV  O26 WIRING.
- XV  INDICATES SOLID BAR COMMON.
- XV RESISTOR COMMON NOT WIRED AS SHOWN.
- XVI THE MARKED NC TERMINAL ON THE SWITCH IS THE TERMINAL WIRED AS SHOWN  
△ SEE TRIANGLE ON CORRESPONDING SECTION.



SOLE RELAYS

RELAY No.	COIL	1	2	3	4	5	6	PART No.
45	3A	5A	5B	9A	8B	5B	8A	196198
46	10A	5A	5B	8B	9A	8B	5B	196198
48	5A	5A	5A	9B	9A	8A	—	196208
49	9A	9A	8A	8A	10A	9B	9B	196197
50	8A	5A	8A	4A	9A	9A	8B	196198
52	8A	—	8B	8A	10A	9A	5A	196196
53	8A	8A	9B	4B	4A	3A	4B	196197
55	4A	7A	7A	7B	—	—	—	196207
56	4A	7A	7A	7B	7A	—	—	196207

WIRE CONTACT RELAYS

RELAY No.	P. COIL	H. COIL	1	2	3	4	5	6	PART No.
45	3A	5A	5B	9A	8B	5B	8A	—	196198
46	10A	5A	5B	8B	9A	8B	5B	5A	196198
48	5A	5A	5A	9B	9A	8A	—	—	196208
49	9A	9A	8A	8A	10A	9B	9B	9A	196197
50	8A	5A	8A	4A	9A	9A	8B	5B	196198
52	8A	—	8B	8A	10A	9A	5A	8A	196196
53	8A	8A	9B	4B	4A	3A	4B	—	196197
55	4A	7A	7A	7B	—	—	—	—	196207
56	4A	7A	7A	7B	7A	—	—	—	196207

RESISTORS

RELAY No.	RESISTOR	RESISTANCE	WTS	PART No.
45	100	20000 Ω	5	310914
46	100	30000 Ω	5	213758
48	100	20000 Ω	5	264892
49	100	20000 Ω	5	310913
50	100	20000 Ω	5	310913
52	100	20000 Ω	5	310914
53	100	20000 Ω	10	310915

TOLERANCE OF ALL RESISTORS, 2%.

CAPACITORS

NAME	SEC	CAPACITY	SERIES RESIST	WV DC	PART No.
DC SUPPLY	2A	200 MFD	—	250	8105651
C-1 CAN TYPE	4B	0.5 MFD	50 Ω	400	173706
C-2 CAN TYPE	10A	0.5 MFD	50 Ω	400	173706
BAIL CONTACTS	9B	0.05 MFD	1000 Ω	400	310893
TERM A & B3	5B	0.02 MFD	—	1600	310920
TERM A & B2	2A	10 MFD	—	50	310919
TERM A & B4	7A	0.05 MFD	—	1000	310918
P5	4A	0.1 MFD	100 Ω	—	2053783

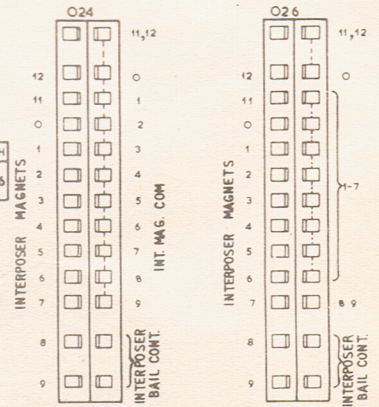
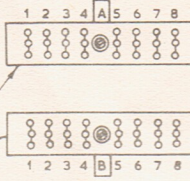
40 PLUS POTENTIAL - POINTS

RELAY No.	POINT
45	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13

RECTIFIERS

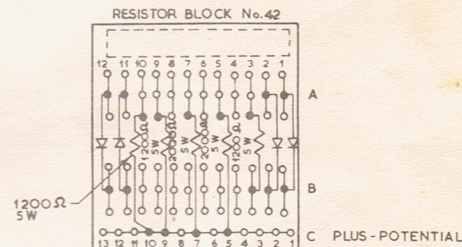
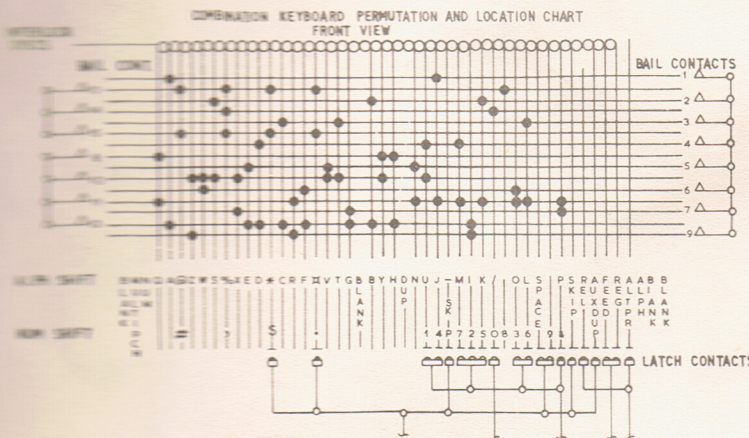
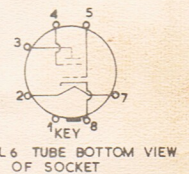
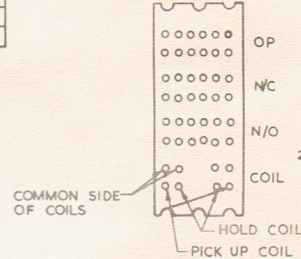
RELAY No.	RECTIFIER	RESISTANCE	PART No.	USED FOR
45	100	20000 Ω	310890	DC SUPPLY
46	100	30000 Ω	416749	O24/O26
48	100	20000 Ω	416749	SPEC. CH
49	100	20000 Ω	416749	O26
50	100	20000 Ω	416749	O26
52	100	20000 Ω	416749	O26
53	100	20000 Ω	416749	O26

TERMINAL BLOCKS ON POWER SUPPLY PANEL



PUNCH UNIT TERMINAL BLOCK FACING WRINKLED LUGS

WIRE CONTACT RELAY TERMINAL MouldING (WIRE SIDE)



CARD FEED (CF) CAMS

LOCATION No.	0	18	36	54	72	90	108	126	144	162	180	198	216	234	252	270	288	306	324	342	360	
5B	3	[Wiring connections]																				
10A	4	[Wiring connections]																				

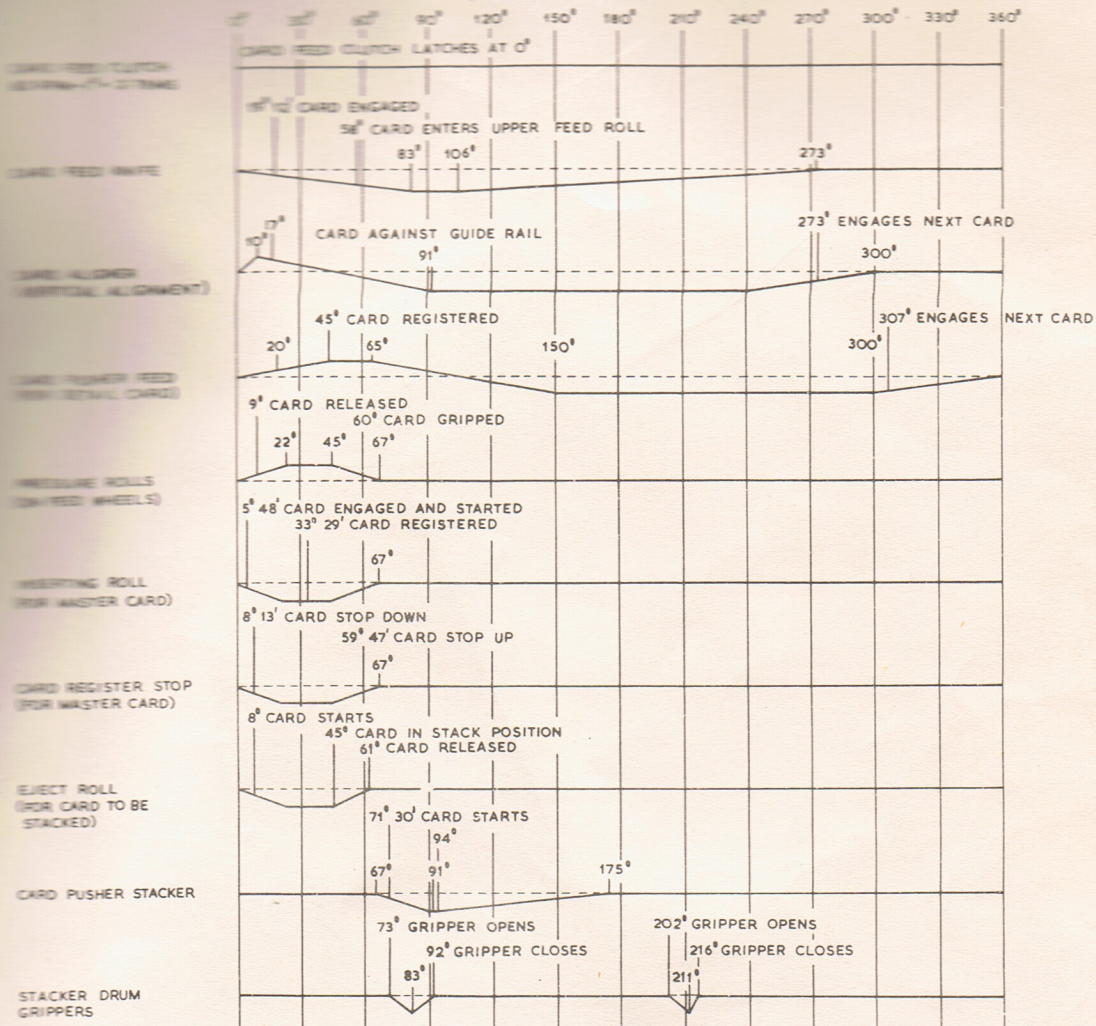
PUNCH (P) CAMS

LOCATION No.	0	18	36	54	72	90	108	126	144	162	180	198	216	234	252	270	288	306	324	342	360	
8A	1	[Wiring connections]																				
5B	2	[Wiring connections]																				
5B	3	[Wiring connections]																				
7B	4	[Wiring connections]																				
4A	5	[Wiring connections]																				

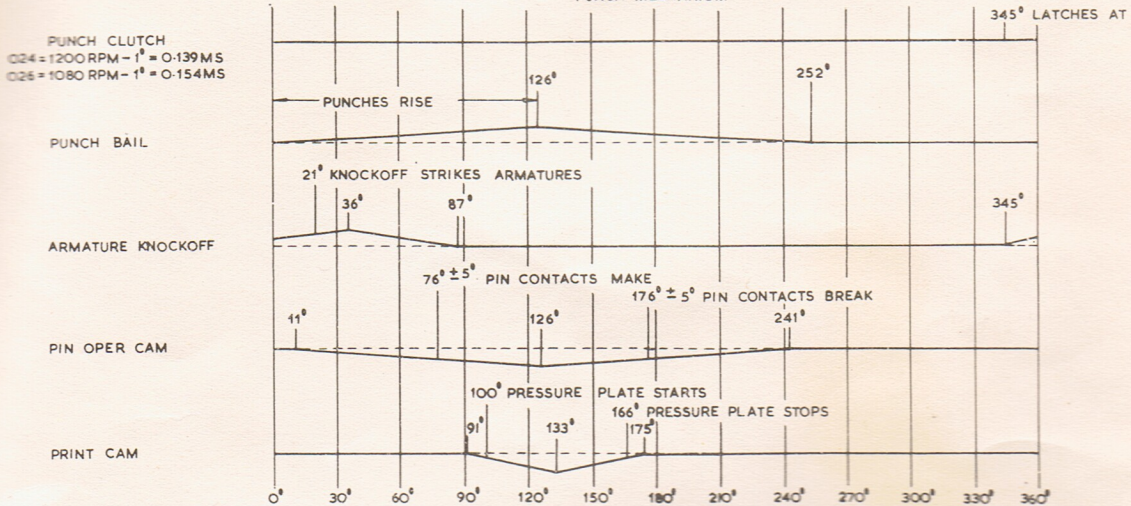


STD. CODE	DATE	CHANGE NO.
	AUG. 10. 60	TA: 3327 E
	NOV. 2. 60	TA: 3327 H
	JAN. 25. 61	TA: 3461 A
	MAY. 17. 61	TA: 3667A
	OCT. 25. 61	TC: 61326
	APR. 5. 61	TA: 3667 B
	APR. 11. 62	TC: 61378

MECHANICAL TIME CHART  
CARD FEED MECHANISM



PUNCH MECHANISM

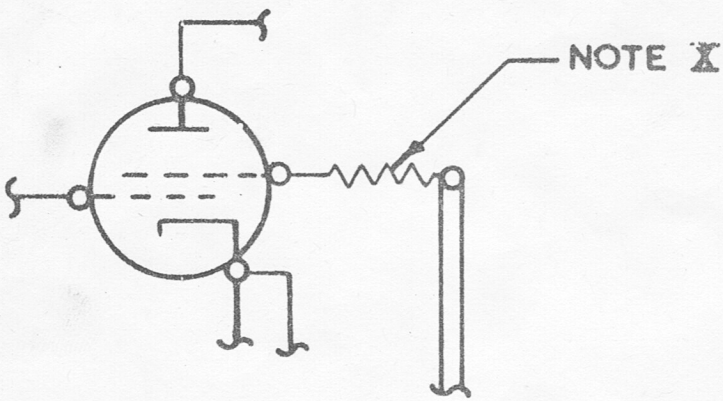


IBM UK LTD.	
MACH	CARD PUNCH
MODEL	O24 - O26 A1
NAME	WIRING DIAGRAM
DRAW	SCALE
CHECK	7/24/61 TRAC MM JUL 22 60
APPROV	6/1/61 CHECK



361208

DATE	CHANGE No.
JAN. 23. 61	E.C. 203740
DEC. 20. 61	T.C. 61431 D



NOTE  
 X.. THE 4.7K, 1W RESISTOR PART  
 NUMBER 169129 ON THE SCREEN  
 OF TUBES 2, 3 AND 7 HAS BEEN  
 CHANGED TO 3.6K, 2W PART  
 NUMBER 320660.

IBM UNITED KINGDOM LTD.			
MACH		CARD PUNCH	
		MODEL	O 24
NAME WIRING DIAGRAM			
SUPPLEMENT			
DRAW		SCALE	NONE
CHECK	W C	TRACE	L. B. DEGB
APPRO	W C	CHECK	