



# **IBM**<sup>®</sup> Wiring Diagram

DIAGRAM NO. - 228005P

E.C. #200560-D

TYPE - 026 CARD PUNCH

MACHINE SERIAL NO. -

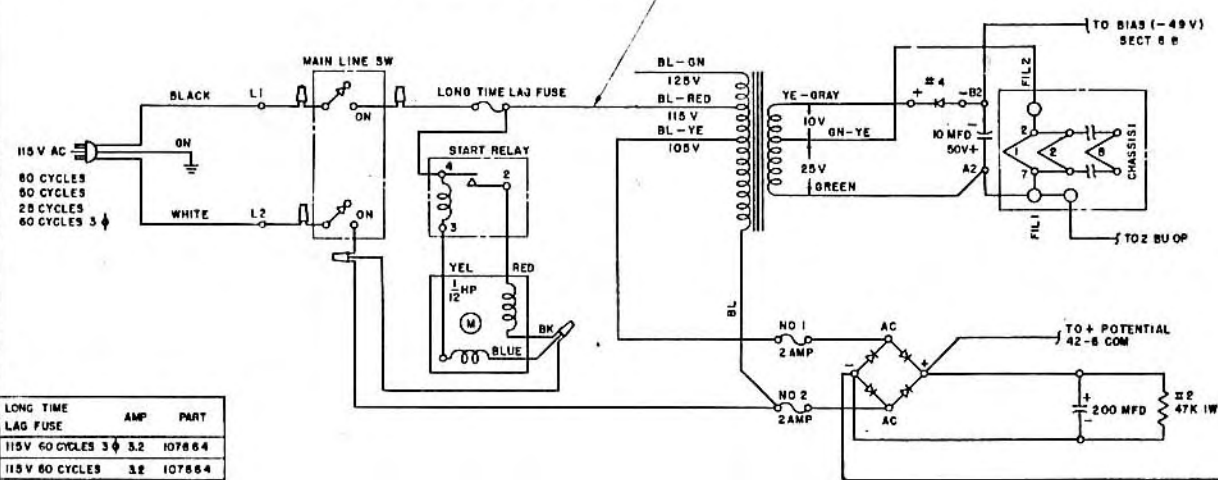


**INTERNATIONAL BUSINESS MACHINES CORPORATION**



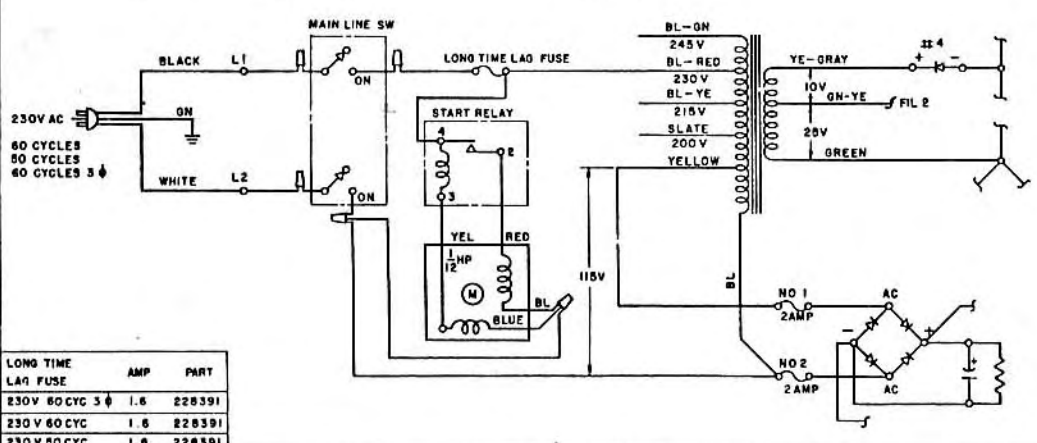
CONNECT AS FOLLOWS FOR LINE VOLTAGE

110 V TO 120 V 115 V TAP TO LONG TIME LAG FUSE  
OVER 120 V 125 V TAP TO LONG TIME LAG FUSE



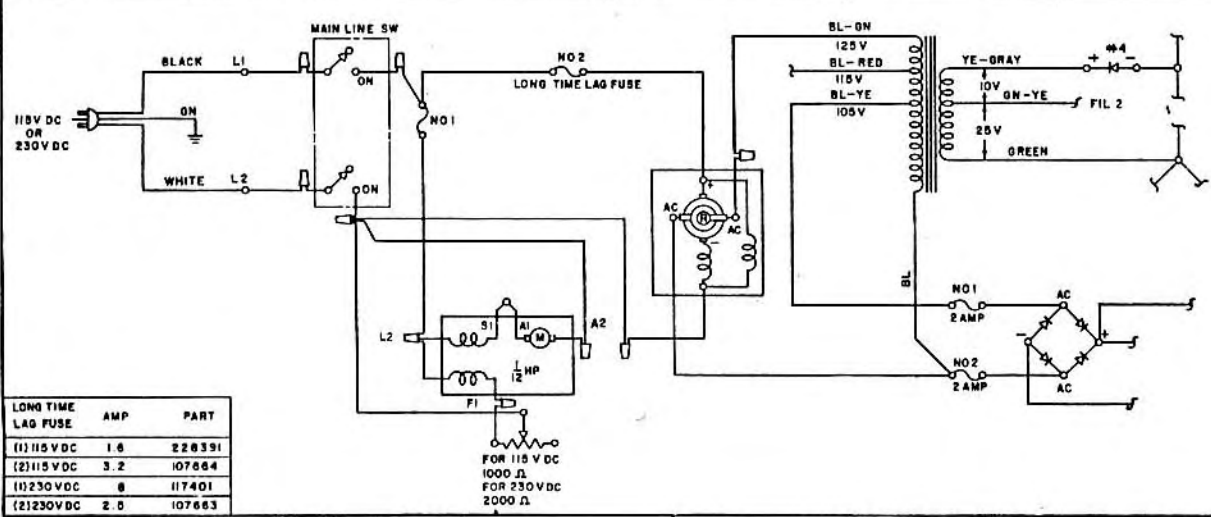
LONG TIME LAG FUSE	AMP	PART
115V 60 CYCLES 3 $\phi$	3.2	107864
115V 60 CYCLES 3 $\phi$	3.2	107864
115V 50 CYCLES 3 $\phi$	3.2	107864
110V 25 CYCLES 2.5	2.5	107863

CONNECT AS FOLLOWS. LINE VOLTAGE 202V-238V 238V-222V 222V-208V } CONNECT LONG TIME LAG FUSE TO 245V TAP TO 230V TAP AS SHOWN TO 215V TAP



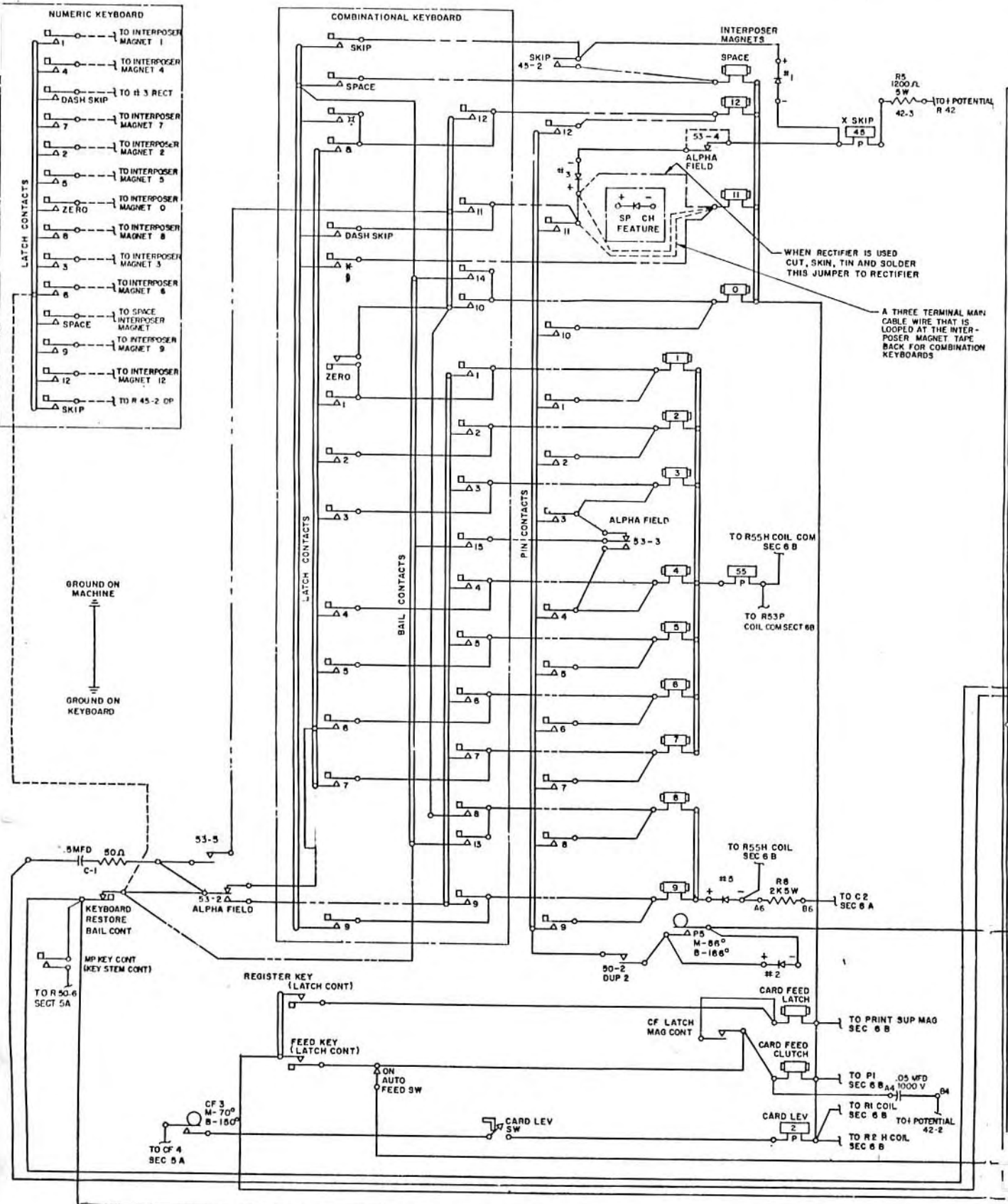
LONG TIME LAG FUSE	AMP	PART
230V 60 CYC 3 $\phi$	1.6	228391
230V 60 CYC 3 $\phi$	1.6	228391
230V 50 CYC 3 $\phi$	1.6	228391

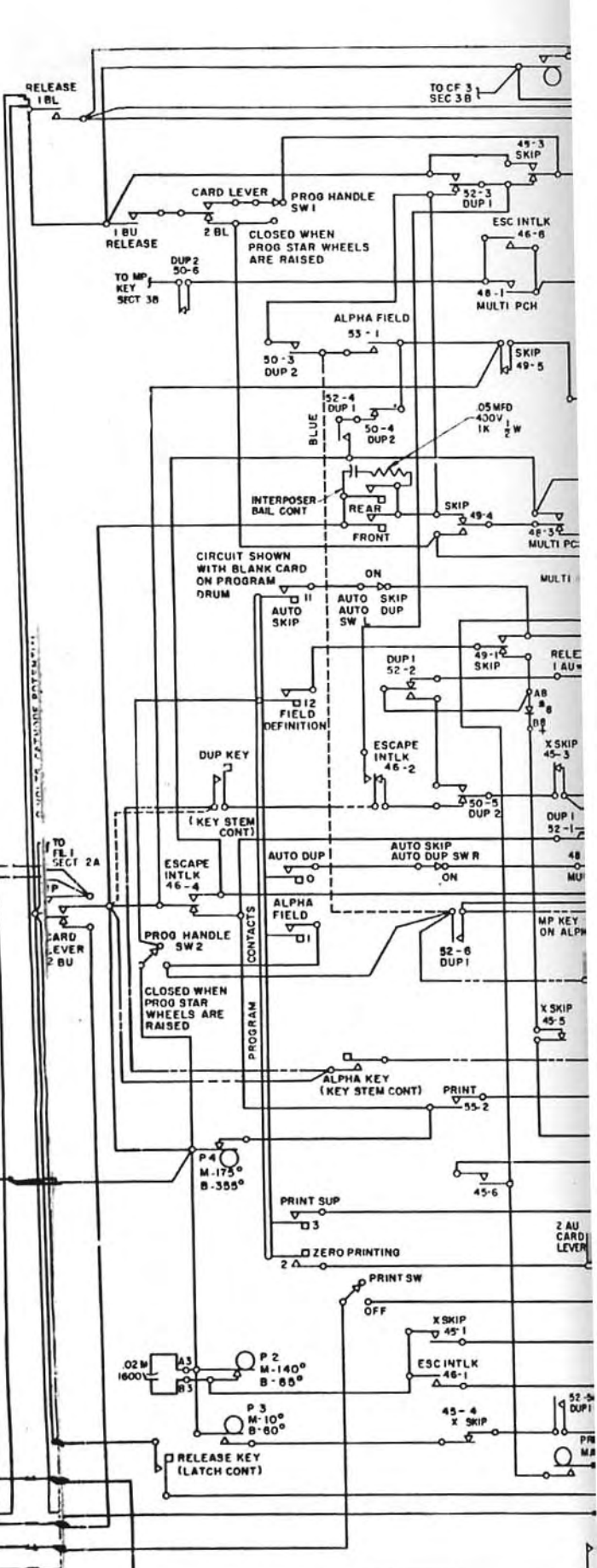
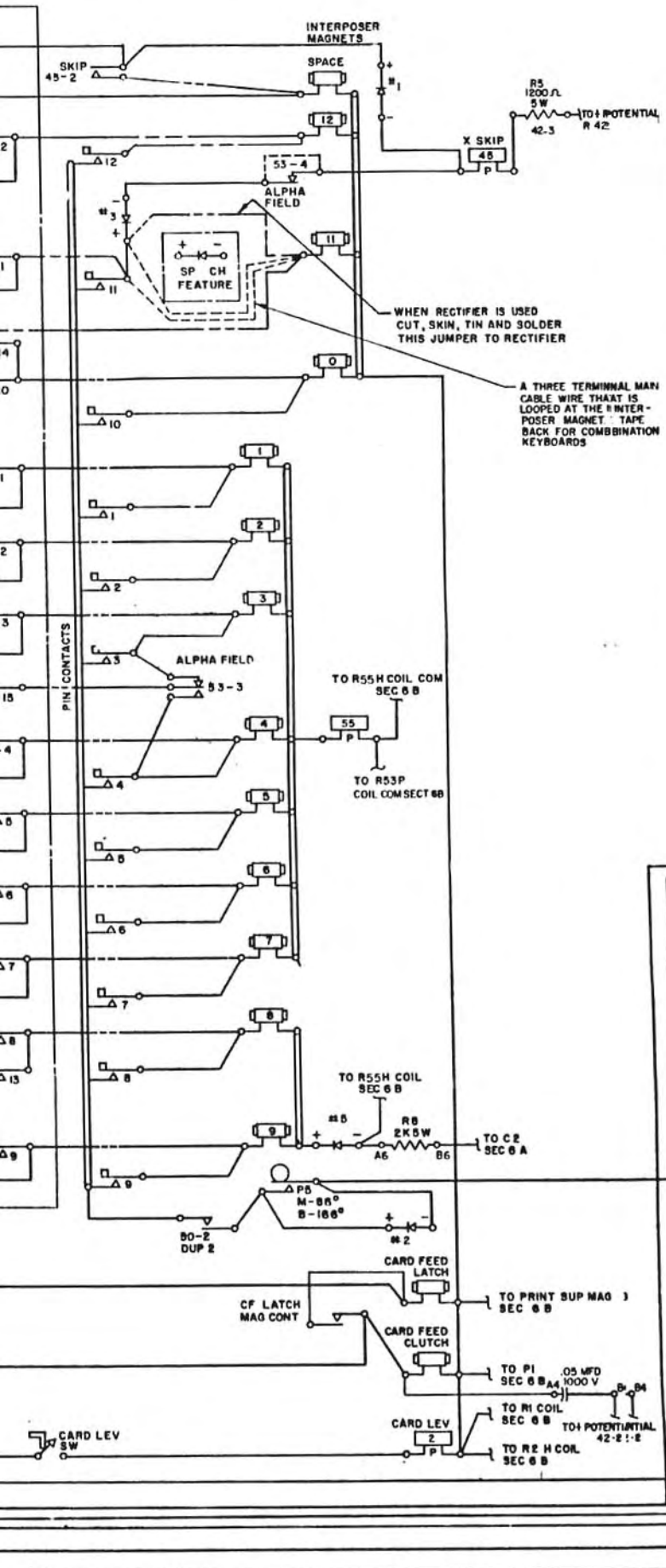
B

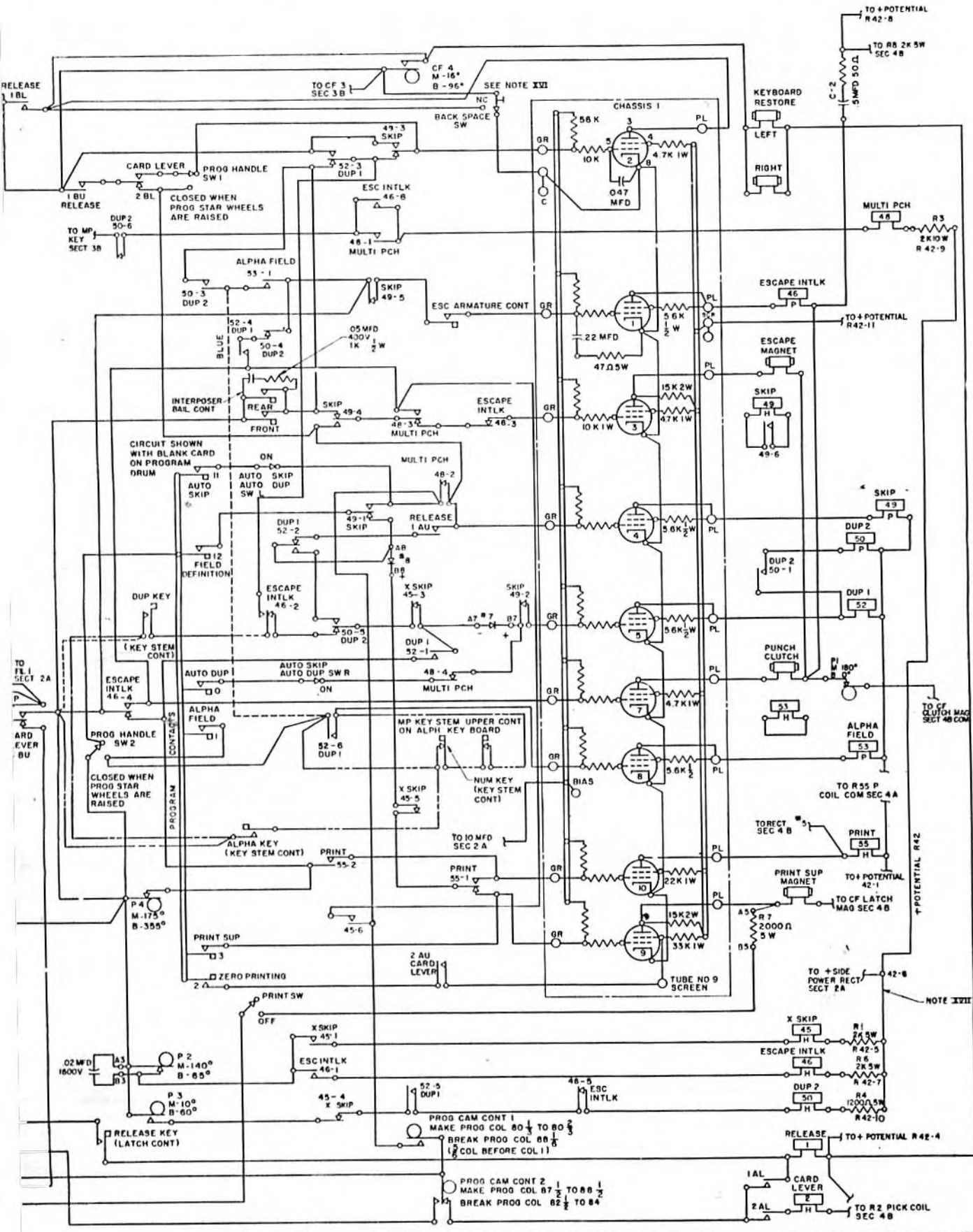


LONG TIME LAG FUSE	AMP	PART
(1) 115 VDC	1.6	228391
(2) 115 VDC	3.2	107864
(1) 230 VDC	8	117401
(2) 230 VDC	2.5	107863

FOR 115 VDC 1000  $\Omega$   
FOR 230 VDC 2000  $\Omega$







DUO RELAYS

RELAY NO	P COIL	H COIL	AL PT	AU PT	BL PT	BU PT	PART NO
1	6B	6B	6B	5A	5A	5A	206672
2	4B	6B	6B	5B	5A	5B	228210

WIRE CONTACT RELAYS

RELAY NO	P COIL	H COIL	1	2	3	4	5	6	PART NO
45	4A	6B	5B	4A	5B	5B	5B	5B	196198
46	6A	6B	5B	5B	6A	5B	6B	5A	196198
48	6A	5A	5A	5A	5A	5B			196206
49	6A	6A	5A	6B	5A	5A	5A	6A	196197
50	6A	6B	6A	4B	5A	5A	5B	5A	196198
52	6B	6B	5B	5A	5A	5A	5B	5B	196198
53	6B	6B	5A	3B	4A	4A	3B		196197
55	4A	6B	5B	5B					196207

RESISTORS

RESISTOR NO	SEG	RESISTANCE	WATTS	PART NO
1	6B	2000	5	310914
2	2A	47000	1	180846
3	6A	2000	10	310915
4	6B	1200	5	310913
5	4A	1200	5	310913
6	6B	2000	5	310914
7	6B	2000	5	310914
8	4B	2000	5	310914

TOLERANCE OF ALL RESISTORS ± 10%

CAPACITORS

NAME	SEG	CAPACITANCE	SERIES RESISTANCE	WVDC	PART NO
DC SUPPLY	2A	200 MFD		200	187726
C-1 CAN TYPE	3B	.5 MFD	50 Ω	400	173706
C-2 CAN TYPE	6A	.5 MFD	50 Ω	400	173706
BAIL CONTACTS	5A	.05 MFD	1000 Ω	400	310893
TERM A3 & B3	5B	.02 MFD		1600	310920
TERM A4 & B4	4B	.05 MFD		1000	310918
TERM A2 & B2	2A	10 MFD		50	310919

TERMINAL & RESISTOR BLOCK RELAY GATE

RES BLOCK	1	2	3	4	5	6	7	8	9	10	11	12	13
42	6B	4B	4A	6B	6B	6B	6B	6A	6A	6B	6A		

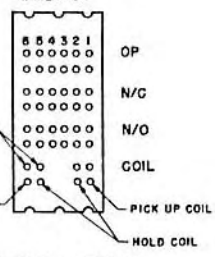
RECTIFIERS

RECT NO	SEG	MILLIAMPERE RATING	PART NO
1	4A	100	76162
2	4B	100	76162
3	4A	100	76162
4	2A	75	225618
5	4B	100	76162
6			
7	6B	3	301917
8	5A	3	301917

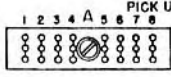


25 L6 TUBE BOTTOM VIEW OF SOCKET

WIRE CONTACT RELAY TERMINAL MOLDING WIRE SIDE

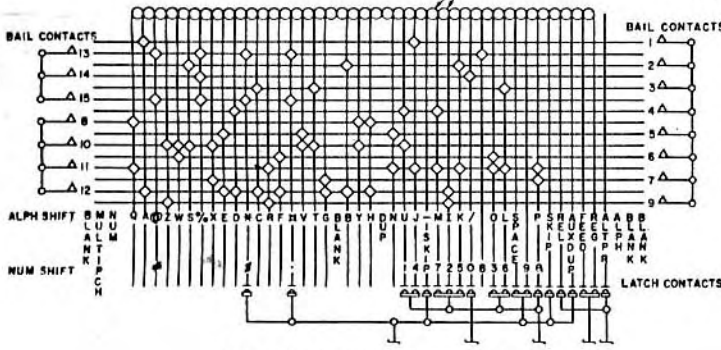
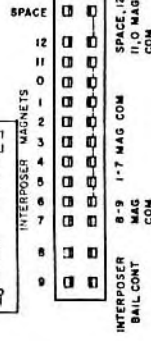
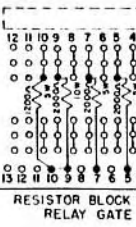
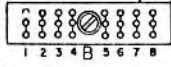


COMMON SIDE OF COILS



TERMINAL BLOCKS ON POWER SUPPLY PANEL

PUNCH UNIT TERMINAL BLOCK FACING WRINKLED LUGS



COMBINATION KEYBOARD PERMUTATION AND LOCATION CHART (FRONT VIEW)

NOTES

- I ALL TUBES ARE 25L6'S
- II ALL BIAS RESISTORS ARE 56K, .5W, PART NO 301149
- III ALL SCREEN RESISTORS 4.7K, 1W, PART NO 169129 UNLESS OTHERWISE NOTED
- IV ALL GRID PROTECTION RESISTORS ARE 10K, 1W, PART NO 184093
- V TUBE #8 AND RELAY 53 USED ONLY ON MACHINES WITH COMB. KEYBOARDS
- VI --- INDICATES WIRING WHEN COMB KEYBOARD USED
- VII --- INDICATES WIRING WHEN NUM. KEYBOARD USED
- VIII SPECIAL CHARACTER KEYS ARE MECHANICALLY INOPERATIVE ON STANDARD MACHINES
- IX --- INDICATES SOLID BAR COMMON
- X THE MARKED NC TERMINAL ON THE SWITCH IS THE TERMINAL WIRED AS SHOWN
- XI RESISTOR COMMON NOT WIRED AS SHOWN

CARD FEED (CF) CAMS

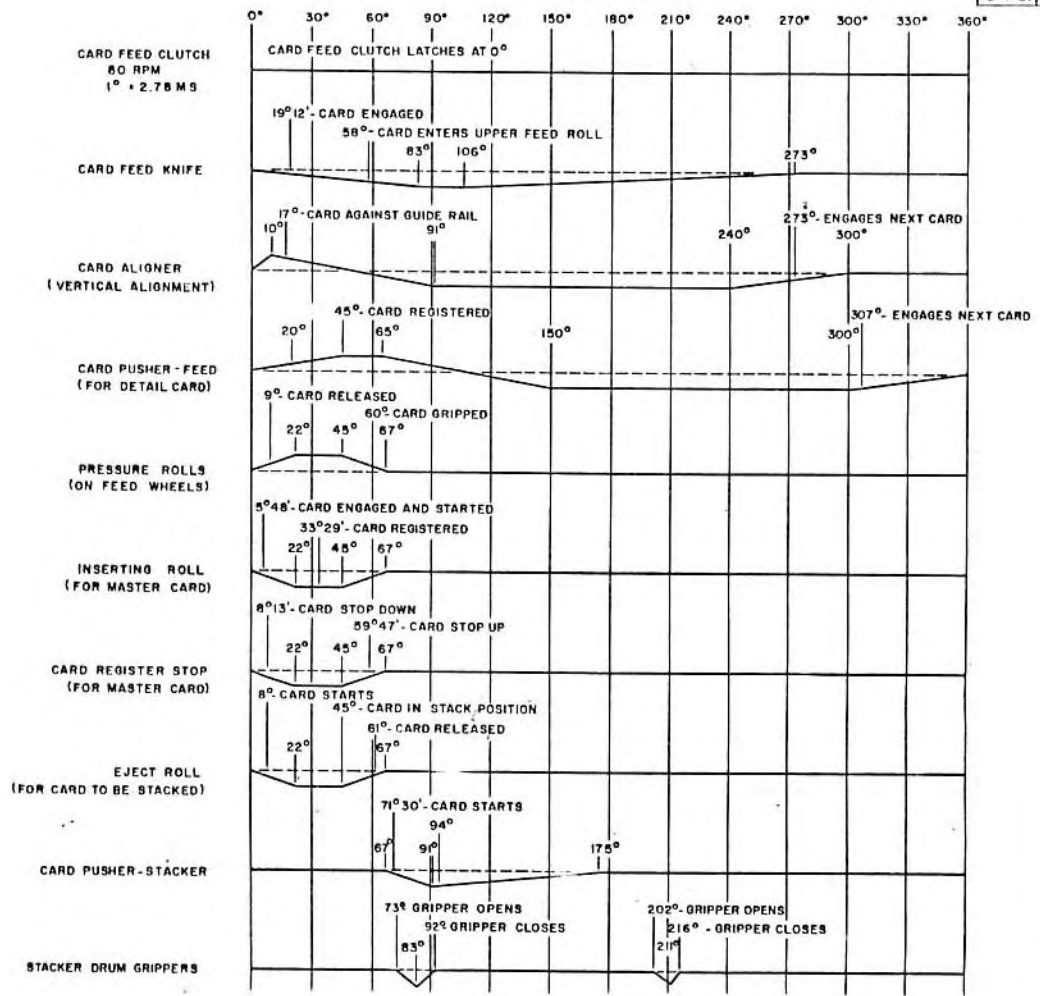
LOCATION NO	0	18	36	54	72	90	108	126	144	162	180	198	216	234	252	270	288	306	324	342	360	
3B	3				70° ± 3°				150° ± 3°													
5A	4	16° ± 1°				96° ± 2°																

PUNCH (PI) CAMS

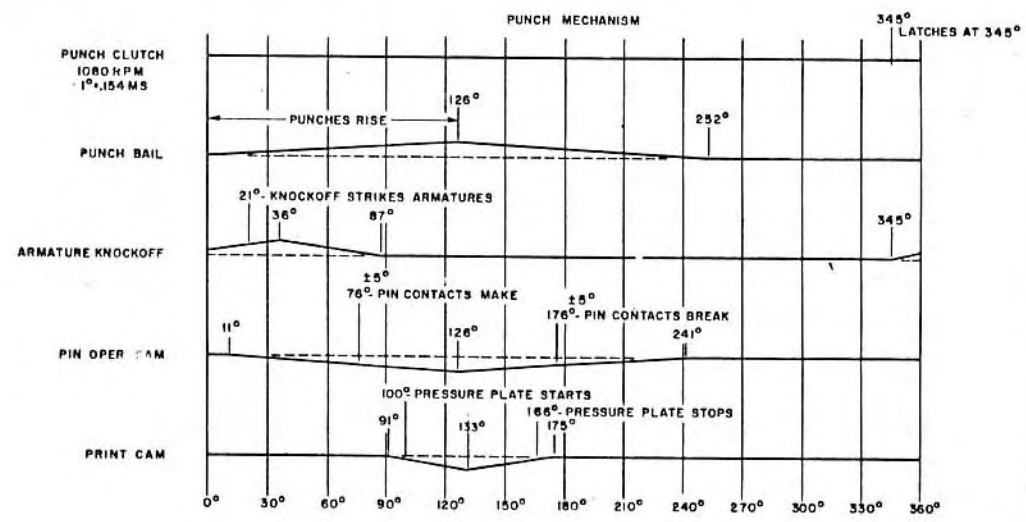
LOCATION NO	0	18	36	54	72	90	108	126	144	162	180	198	216	234	252	270	288	306	324	342	360	
6B	1				65° ± 1°				140° ± 3°		180° ± 1°											
5B	2					60° ± 3°																
5B	3	10° ± 1°																				
5B	4																					
4B	5					86° ± 3°				166° ± 1°												355° ± 1°

DATE	CHANGE NO
4-24-53	52455
1-11-54	52427
6-7-55	54600-A
8-15-56	200560-A
11-28-56	200560-C
2-4-57	200560-D

MECHANICAL TIME CHART  
CARD FEED MECHANISM



PUNCH MECHANISM



INTERNATIONAL BUSINESS MACHINES CORP			
MACH	PRINTING CARD PUNCH	MODEL	Q26
NAME	WIRING DIAGRAM		
DRAW	L T B	9-29-49	SCALE NONE
CHECK	L T B	9-29-49	TRAC E J S 12-3-53
APPRO	A B C	10-31-49	CHECK