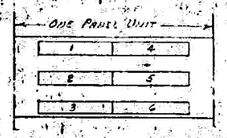
NOTES

1. ALL WIRES ON INTERTING UNIT TERMINAL BLOCK PX (TERMINALS 1, 3 TO 10 INCL.) TO BE #20 L.V. WIRE.
2. SEE PX-13-102 FOR ALL OTHER WIRE SIZES.
3. WIRES SUBJECTED TO 400 VOLTS AND OVER, TO BE H.V. INSULATED.
4. TERMINALS FOR ALL ACCUMULATORS ARE CONNECTED SIMILARLY, WITH SPECIAL EXCEPTIONS AS SHOWN BELOW.
5. PROVIDE "D.L." ON PRINTER PANEL 2 TIES TO FINISHED D.L. ON CONSTRUCT TERMINAL PANEL 2.

FOR ALL BLOCKS NOT SHOWN ON THIS DRAWING, SEE PX-13-107A



ARRANGEMENT OF TERMINAL BLOCKS IN POWER TROUGH AS VIEWED FROM FRONT. BLOCK TERMINALS ARE NUMBERED RIGHT TO LEFT.

SC
FOR PULSE AMPLIFIERS

3	+ 225
4	+ 150
5	+ 110
6	+ 50
7	+ 20
8	—
9	− 130
10	110 AC
11	110 AC
12	OV. − GROUND

FOR PANEL No 26 SEE PX-13-107A

FOR CORNER No 1 & PANEL No 16 SEE PX-13-107A

Terminal No.	Printer Panel No. 3	Printer Panel 2	Printer Panel 1	Const. Trans. Panel 3	Const. Trans. Panel 2	Const. Trans. Panel 1	Funct. Table No. 3 Panel 2	Funct. Table No. 3 Panel 1	Terminal No.	Funct. Table No. 2 Panel 2	Funct. Table No. 2 Panel 1	Funct. Table No. 1 Panel 2	Funct. Table No. 1 Panel 1	Accumulator No. 20	Accumulator No. 19	Accumulator No. 18	Accumulator No. 17
	Panel No. 42	41	40	39	38	37	36	35		34	33	32	31	30	29	28	27
	1 / 4				2 / PR	2 / PQ	2 INNER / PR	2 INNER / PR		2 / PT	1 / PRG	2 / PT	1 / PRG	2 / PR	2 / PR	2 / PR	2 / PR
1	-150 / -10				0 C	+25 B	-245	-245	1	-15	—	-15	—	-245			
2	+225 / -40				Reader Power Resets	+50 A	-295	-295	2	+100	—	+100	—	-295			
3	+155 / -75					0 C	-345 A	-345 A	3	+20 B	—	+20 B	—	-345 A	-345 A	-345 A	-345 A
4	+50 / -80					-295	+75	-320	4	00	—	00	—	-320			
5	[illegible] / -85 A					-180 B	+110 C	-170	5	+90	—	+80	—	-170			
6	+50 / -85 B					—	+20 B	-80	6	—	—	—	—	-80			
7	— / -85 C					Reader Resetting	+225 B	-425	7	+235	-320	+285	-920	-425			
8	-370 / -90					-340	+95	-555	8	+150 A	-835	+150 A	-835	-555			
9	— / -95					—	—	—	9	+75	-815	+75	-815	—	—	—	—
10	+345 / -105					-240	-200	-375	10	+230	-750	+230	-750	-375			
11	+230 / -115					-320	-130 A	-470	11	+195	-725	+195	-725	-470			
12	[illegible] / -120					-170	-105	-450	12	—	-725	—	-725	-450			
13	+236 / -125					—	-90	-315	13	—	-375	—	-375	-315			
14	+245 / -135 A					-200	-180 B	-360	14	-135 B	-125	-180 B	-125	-360			
15	+90 / -150					Reader Power off	-10	-235	15	—	—	—	—	-235			
16	+225 A / [illegible]					—	—	-240	16	—	-555	—	-555	-240			
														-395			
17	+150 / -150					+200	—	-415	17	—	-415	—	-415	-415			
	2 / 5	2 PM			3 / PBB	3 / PP	3 INNER / PQ	3 INNER / PQ		3 / PS	3 / PE	3 / PS	3 / PE	3 / PQ	3 / PQ	3 / PQ	3 / PQ
1	-125 B / -10	Printer Power off			+55 A	-295	+25 B	+25 B	1	+225 B	-295	+225 B	-295	+25 B	+25 B	+25 B	+25 B
2	+225 / -75				-55 B	-295	+50 C	+50 C	2	+110 C	-235	+110 C	-235	+50 A	+50 A	+50 A	+50 A
3	+100 / -180 A	+75			+55 C	—	0 C	0 C	3	+50 D	-345 A	+50 D	-345 A	0 D	0 D	0 D	0 D
4	+195 / -150 C	0 A			+55 D	-320	+75	+75	4	-105	-320	-105	-320	+75			
5	+150 / -200	+20 A			+55 E	-170	-110 A	+110 A	5	-315	-170	-315	-170	+110 A	+110 A	+110 A	+110 A
6	-150 A / -235	+55 F			—	-75	+20 A	+20 A	6	-345 A	-75	-345 A	-75	+20 A	+20 A	+20 A	+20 A
7	+150 / -215	0 C			—	—	+225 B	+225 B	7	+320	-425	-320	-425	+225 B	+225 B	+225 B	+225 B
8	+130 / -245	+20 A			0	-555	Initial Clear	Initial Clear	8	-245	-555	-245	-555	Initial Clear			
9	+150 A / -255	+55 G			0	—	+150 A	+150 A	9	-340	-620	-240	-620	+150 B	+150 B	+150 B	+150 B
10	+110 B / 230	—			0	—	-200	-200	10	-200	-640	-200	-640	-200			
11	+110 C / -295		Printer Power off		0 A	—	-130 C	+130 C	11	-175	-470	-175	-470	-130 A	-130 A	-130 A	-130 A
12	+100 / -300				0 B	-150	-105	-105	12	0 D	-450	0 D	-450	-105			
13	+105 / -3 5	+130			—	-315	-115	-115	13	-180	-315	-180	-315	-115	-115	-115	-115
14	+105 / -3 0	+130			—	-360	-180 B	-180 B	14	-40	-360	-40	-360	-180 B	-180 B	-180 B	-180 B
15	+75 / -345 A	+130			—	-235	-10	-10	15	-95	-235	-95	-235	-10			
16	+55 A / -315 B	+200			—	-140	125	-125	16	+260	-240	+260	-240	-125			
17	+55 B / -315 C	+200			—	-265	-85 A	-85 A	17	-150	-535	-150	-385	-85 A	-85 A	-85 A	-85 A
18	+55 C / -360	+200			—	-415	-40	-40	18	-95	-415	-95	-415	-40			
	3 / G									3 / PD		3 / PD					
1	+55 D / -375								1	+25 B		+25 B					
2	+55 E / -385								2	+50 D		+50 D					
3	+55 F / -430								3	0 D		0 D					
4	+55 G / -415								4	+75		+75					
5	+50 A / -425								5	+110 C		+110 C					
6	+50 B / -435								6	+20 B		+20 B					
7	+50 C / -450								7	+225 B		+225 B					
8	+50 D / -470								8	Initial Clear		Initial Clear					
9	+25 A / -475								9	-595		-595					
10	+25 B / -555								10	-200		-200					
11	+20 A / -595								11	-130 C		-130 C					
12	+20 B / -620								12	-105		-105					
13	0 A / -640								13	-265		-265					
14	0 B / -725								14	-180 B		-180 B					
15	0 C / -750								15	-10		-10					
16	0 D / -815								16	+150 A		+150 A					
17	00 / -835								17	00		00					
18	-15 / -920								18	-40		-40					

Terminal No.	Corner No 8	Terminal No.	Accumulator No. 16	Accumulator No. 15	Accumulator No. 14	Accumulator No. 13	Multiplier Panel 3	Multiplier Panel 2	Multiplier Panel 1	Accumulator No. 12
			25	24	23	22	21	20	19	18
			2 / PR	2 / PR	2 / PR	2 / PR	1 / PL	2 / PL	1 / PL	2 / PR
1		1	-245				-10	-10	-130 B	
2		2	-295				-40	40	-200	
3		3	-345 A	-345 A	-345 A	-345 A	-30	-105	-235	-345 A
4		4	-320				—	+110 C	—	
5		5	-170				—	+150 A	—	
6		6	-80				—	+50 B	—	
7		7	-425				-345 A	-375	-345 A	
8		8	-555				-360	-335	-360	
9	A	9	—	—	—	—	+415	-415	-415	—
10		10	-375				-450	-450	-450	
11		11	-470				-470	-470	-470	
12		12	-450				-555	-555	-555	
13		13	-315				—	—	—	
14		14	-360				—	—	—	
15		15	-235				—	—	—	
16		16	-240				-105		-240	
								-135 B		
17		17	-415				—	-180 A	—	
			3 / PQ	3 / PQ	3 / PQ	3 / PQ	2 / PR	3 / PR	2 / PR	3 / PQ
1		1	+25 B	+25 B	+25 B	+25 B	0 D	+25 A	0 D	+25 B
2		2	+50 C	+50 C	+50 C	+50 C	+50 B	+20 B	+50 B	+50 B
3		3	0 D	0 D	0 D	0 D	+75	+75	+225 B	0 D
4		4	+75				—	-125	—	
5		5	+110 B	+110 B	+110 B	+110 B	—	0 D	—	+110 C
6		6	+20 A	+20 A	+20 A	+20 A	—	+225 B	—	+20 A
7		7	+225 B	+225 B	+225 B	+225 B	+225 B	-170	+280	+225 B
8		8	Initial Clear				-130 B	-200	-265	
9		9	+150 B	+150 B	+150 B	+150 B	-200	235	+330	+150 A
10		10	-200				-235	-315	-295	
11		11	-130 C	-130 C	-130 C	-130 C	-235	-345 A	-315	-130 B
12		12	-105				-315	-240	-320	
13		13	-115	-115	-115	-115	—	-245	—	-115
14		14	-180 B	-180 B	-180 B	-180 B	—	-295	—	-130 B
15		15	-10				—	-320	—	
16		16	-125				—	-555	—	
17		17	-85 B	-85 B	-85 B	-85 B	—	-360	—	-95 C
18		18	-40				—	-320		
							3 / PE	3 / PE		
1		1					+20 B	+75		
2		2					+25 B	+25 A		
3		3					+110 B	+20 B		
4		4					—	+150 A		
5		5					—	+110 C		
6		6					—	—		
7		7					+150 A	+550		
8		8					-170	+325		
9		9					-180 A	+505		
10		10					-240	+530		
11		11					-245	+285		
12		12					-320	-245		
13		13					—	- 40		
14		14					—	- 85 C		
15		15					—	-105		
16		16					-125	-125		
17		17					—	-110		
18		18					—	-180 A		

Terminal No.	Accumulator No. 11	Accumulator No. 10	Accumulator No. 9	Accumulator No. 8	Accumulator No. 7	Accumulator No. 6	Accumulator No. 5	Divider and Square Rooter
	17	15	14	13	12	11	10	9
	2 / PR	2 / PR	2 / PR	2 / PR	2 / PR	2 / PR	2 / PR	1 / PF
1	-245							+150 A
2	-295							+150
3	-345 A	-345 A	-345 A	-345 A	-345 A	-345 A	-345 A	+20
4	-320							+225 B
5	-170							+230
6	-80							—
7	-425							+505
8	-555							+150
9	—	—	—	—	—	—	—	+370
10	-375							+395
11	-470							+233
12	-450							+280
13	-315							+95
14	-360							+75
15	-235							+505
16	-240							
17	-315							
18	-415							
	3 / PQ	3 / PQ	3 / PQ	3 / PQ	3 / PQ	3 / PQ	3 / PQ	2 / PD
1	+25 B	+25 B	+25 B	+25 B	+25 B	+25 B	+25 B	+25 B
2	+50 A	+50 A	+50 A	+50 A	+50 B	+50 B	+50 B	+50 B
3	0 C	0 C	0 C	0 C	0 C	0 C	0 C	0 D
4	+75							-40
5	+110 B	+110 B	+110 B	+110 B	+110 C	+110 C	+110 C	-75
6	+20 A	+20 A	+20 A	+20 A	+20 A	+20 A	+20 A	-85 C
7	+225 B	+225 B	+225 B	+225 B	+225 B	+225 B	+225 B	-95
8	Initial Clear							-105
9	+150 B	+150 B	+150 B	+150 B	+150 A	+150 A	+150 A	-115
10	-200							-125
11	-130 A	-130 A	-130 A	-130 A	-130 B	-130 B	-130 B	-135
12	-105							-180 B
13	-115	-115	-115	-115	-115	-115	-115	-140
14	-180 B	-180 B	-180 B	-180 B	-180 B	-180 B	-180 B	-170
15	-10							-180 B
16	-125							-230
17	-85 B	-85 B	-85 B	-85 B	-85 C	-85 C	-85 C	-235
18	-40							-240
								3 / PT
1								-245
2								—
3								-295
4								-315
5								-320
6								-335 A
7								-450
8								-470
9								-555
10								-555
11								-470
12								-640
13								-405
14								-415
15								—
16								-395
17								-375
18								-320

Terminal No.	Accumulator No. 4	Accumulator No. 3	Accumulator No. 2	Accumulator No. 1	Master Prog. Panel 2	Master Prog. Panel 1	Cycling Unit	Intertying Unit Panel No. 1
	8	7	6	5	4	3	2	1
	2 / PR	2 / PR	2 INNER / PT	1 INNER / PRC	2 / PC	2 / PR	2 / PT	1 / PT
1	-245		-15	—	-245	-245	[illegible]	+370
2	-295		+100	—	-295	-295	+235	—
3	-345 A	-345 A	+20 B	—	[illegible]	[illegible]	-290	[illegible]
4	-320		[illegible]	—	—	—	-300	[illegible]
5	-170		+80	—	-170	-170	[illegible]	[illegible]
6	-80		—	—	-75	-75	+235	[illegible]
7	-425		+285	-920	+285	+285	-435	+550
8	-555		+150 A	-835	+150	+150	+525	[illegible]
9	—	—	+75	-815	—	—	-250	+555
10	-375		+230	-750	+230	+230	-345 B	555
11	-470		+195	-725	+370	+370	-595	525
12	-450		—	-725	+230	+230	[illegible]	[illegible]
13	-315			-375	+95	+95	[illegible]	[illegible]
14	-360		-135 B	-125	+300	+200	1 800	[illegible]
15	-235			—	-235	-235	1 [illegible]	[illegible]
16	-240			-555	[illegible]	[illegible]	[illegible]	[illegible]
17	-395			-360	+230	+230	+110 C	[illegible]
18	-415			-360	+260	+260	[illegible]	200 B
	3 / PS	3 / PS	3 INNER / PS	2 INNER / PE	3 / PQ	3 / PQ	5 / PS	2 / PW
1	+25 B	+25 B	+25 B	-245	+25 B	+25 B	6 D	
2	+50 A	+50 A	+50 A	-235	+50 B	+50 B	+20 B	
3	0 D	0 D	+50 D	-345 A	0 D	0 D	+50 B	-345 C
4	-105		-105	-320	+75	+75	-10	
5	+110 B	+110 B	+110 B	-315	-170	+110 C	+110 C	-40
6	-345 A	+20 A	-345 A	-75	+20 B	+20 B	+75	
7	+320	+225 B	-320	-425	+225 B	+225 B	+225 B	
8	-245		-245	-555	Initial Clear		-105	-110 C
9	-240	+150 B	-240	-620	+150 A	+150 A	-200	
10	-200		-200	-640	-200		-115	
11	-175	-130 A	-175	-470	-130 B	-130 B	-125	-135
12	-105		-105	-450	-105	-105	-450	-220
13	-115	-115	-140	-315	—	—	+150 A	+55 A
14	-180 B	-180 B	-40	-360	-180 B	-180 B	-385	+55 B
15	-10		-95	-235	-10	-10	-130 B	+55 C
16	-125		+260	-240	-125	-125	-120	+20 B
17	-85 A	-85 A	-150	-385	-85 C	-85 C	-125	0 D
18	-40		-95	-415	-40	-40	+55 A	00
				3 INNER / PD				3 / PR
1				+25 B				-15
2				+50 D				-10
3				0 D				-40
4				+75				-75
5				+110 C				-80
6				+20 B				-85 C
7				+225 B				-90
8				Initial Clear				-95
9				-595				-400
10				-200				-415
11				-130 C				-420
12				-105				-435
13				-265				-105
14				-180 B				-115
15				-10				-120
16				+150 A				-125
17				00				-130 B
18				-40				-140

* NOT USED IN UNIT

REVISIONS:
GENERAL CONNECTIONS ADDED, +220 WAS +270, ON PRINTER POWER SUPPLY +300 WAS +290, +285 WAS +250. DIVIDER INFORMATION ADDED. 1
ON CYCLING UNIT +55 ON P.T. BLOCK 2 & 3. PRINTER PANEL 3 -10 B WAS 0 D. CONST. TRANS. POWER, -75 WAS -80. INTERTYING UNIT WAS CONTROL PANEL. INTERTYING UNIT PT. TERMINAL 2 WAS +350 PRINTER PANEL 2 PM. TERM 1 WAS 0 C. 1 Changes 6-9-45
ON C.T. PANEL 2 & 1 U. RANGE WAS -315. ON CYCLING UNIT:- +145 ON P.T. 15 BOARD -385 ON P.T. 15 BOARD. +285 ON PT 15 BOARD. MOVING ON PX 15 TO PA 15 BOARD. +350 ON PM 15 BOARD. 2 Changes 4-23-45
ON CYCLING UNIT PT. BLOCK ON PS BLOCK. 3 Changes 8-28-45
NOTED SC PLUG FOR PULSE AMPLIFIER - 225 B WAS 225 - 225 B AND SC WERE 225 - 225 B. ADDED SC PLUG FOR SPARK ADVANCE. ADDED WAS -470 - CYCLING UNIT PT BLOCK, -360 ADDED - CYCLING UNIT PS BLOCK, -345 ADDED. 4 Changes 12-1-45
ADD RESETTING PULSE FOR CONTROL PANEL. ADDED RESETTING PULSE FOR READER. CHANGED CONNECTIONS AT TERMINAL RECEIVING A 28 INTERTYING PULSE. 5 Changes 9 JUN 47

MOORE SCHOOL OF ELECTRICAL ENGINEERING
UNIVERSITY OF PENNSYLVANIA

CHART FOR ELECTRONIC DIGITAL TRANSLATOR

DATE	FINISH	SCALE
Drawn by: J. Davidson, Feb. 25 1945	Checked by:	Approved by: GWB 4/3/45

PX-13-107