

Customer Engineering Diagrams

**CONTROL DATA®
G-15 COMPUTER**

TABLE OF CONTENTS

<u>Page</u>	<u>Title</u>	<u>Drawing Number</u>
i	Index of G15 Signals	
1	Taper Pin Location - Left Side	46D77
1a	Taper Pin Location - Right Side	46D76
2	Input - Output 1 and 2	3D588
3	Input - Output 3 and 4	3D589
4	Input - Output 5 and 6	3D590
5	Input - Output 8	3D591
6	Input - Output 11 and Register MZ	3D592
7	Control Gate 1 and 2	3D593
8	Control Switch	3D594
9	Inverting Gate and Early Bus	3D293
10	Product Gates	3D595
11	Timing Gate and Accumulator Gate	3D596
12	Memory Lines 0, 1, 2, 3, 4, 5, 6	3D296
13	Memory Lines 7-18	3D297
14	Registers M20, M21, M22	3D298
15	Magnetic Tape Control	3D597
16	Location Diagram Package	3D598
17	Tape Reader	3D230
18	Clock	3D283
19	Power Supply	3D281
20	Read Preamplifier	3B111
21	Relay Chassis	3C272
22	G15-D Connector Pin Wiring	46C22
23	Tape Punch	46C22
24	Final Assembly Cathode Follower 3	3C246
25	Numeric Decoder ANC-1	1C2100
26	Normal Shift ANC-1	3D795
27	AN Decoder ANC-1	3D796
28	Special Characters ANC-1	3D794
29	Decoder AN Coupler	3D661
30	Numeric Coupler	3D639
31	Encoder ANC-2	3D857
32	Decoder ANC-2	3D886
33	Plotter Driver (Part 1)	3D1108
34	Plotter Driver (Part 2)	3D1108
35	Typewriter (Part 1)	3D640
36	Typewriter (Part 2)	3D282
37	Typewriter ANC-2 and 3	3D919
38	Coupler Matrix	3D643

SIGNAL	ORIGIN	LOCATION	SIGNAL	ORIGIN	LOCATION	SIGNAL	ORIGIN	LOCATION	SIGNAL	ORIGIN	LOCATION	SIGNAL	ORIGIN	LOCATION	SIGNAL	ORIGIN	LOCATION
①	C	3D299-3B	CV	FF	3D292-1C	H06	BA	3D296-3A	OUTPUT	FF	3D288-2B	SM	G	3D292-1B	TYPE ₁	C	TYPEWRITE
②	C	3D299-3C	CM	FF	3D292-1C	H07	BA	3D292-1C	OUTPUT SHIFT	C	3D292-1B	SE	G	3D288-1B	TYPE ₂	C	TYPEWRITE
③	C	3D299-3C	CK	FF	3D292-1C	H08	BA	3D292-1B	OUTPUT SHIFT	C	3D292-1B	SE	G	3D288-1B	TYPE ₃	C	TYPEWRITE
④	C	3D299-3B	CT	FF	3D291-1B	H09	BA	3D292-1B	OUTPUT SHIFT	C	3D292-1B	SE	G	3D288-1B	TYPE ₄	C	TYPEWRITE
⑤	C	3D288-2C	CE	FF	3D291-1B	H10	BA	3D291-1A	OUTPUT SHIFT	C	3D292-1B	SE	G	3D288-1B	TYPE ₅	C	TYPEWRITE
⑥	SM	TYPEWRITE	⑦	C	3D288-2C	H11	BA	3D292-2C	OUTPUT SHIFT	C	3D292-1B	TO	G	3D295-2C	TYPE ₆	C	TYPEWRITE
⑧	C	3D295-1B	DO	G	3D292-3B	H12	BA	3D292-2C	OUTPUT SHIFT	C	3D292-1B	T1	FF	3D295-2C	TYPE ₇	C	3D288-2A
⑨	FF	3D295-1C	D1	G	3D292-3B	H13	BA	3D292-2B	OUTPUT SHIFT	C	3D292-1B	T1-CH	G	3D288-1A	TYPE ₈	C	3D290-2B
⑩	BI	3D295-1A	D2	G	3D292-3B	H14	BA	3D292-2A	OUTPUT SHIFT	C	3D292-1B	T2	G	3D295-3A	TYPE ₉	C	3D287-3A
⑪	BA	3D295-1C	D3	G	3D292-3B	H15	BA	3D292-3C	OUTPUT SHIFT	C	3D292-1B	T3	G	3D295-2A	TYPE ₁₀	C	3D287-3A
⑫	FF	3D290-3C	D4	G	3D292-3B	H16	BA	3D292-3B	OUTPUT SHIFT	C	3D292-1B	T21	G	3D295-2A	TYPE ₁₁	C	3D288-2A
⑬	BI	3D295-2B	D5	G	3D292-3B	H17	BA	3D292-3B	OUTPUT SHIFT	C	3D292-1B	T20	G	3D295-3A	TYPE ₁₂	C	3D287-2A
⑭	C	3D290-3C	D6	G	3D292-3B	H18	BA	3D292-3A	OUTPUT SHIFT	C	3D292-1B	T20	FF	3D295-3A	TYPE ₁₃	C	3D287-2A
⑮	SM	3D281-2B	D7	G	3D292-3B	H19	BA	3D292-1B	OUTPUT SHIFT	C	3D292-1B	T20	FF	3D295-3A	TYPE ₁₄	C	3D287-2A
⑯	C	3D289-2C	⑰	C	3D288-2B	H20	BA	3D296-3B	OUTPUT SHIFT	C	3D292-1B	TA	FF	3D295-3B	TYPE ₁₅	C	3D294-2A
⑳	SM	TYPEWRITE	㉑	C	3D294-1C	H21	BA	3D296-2B	OUTPUT SHIFT	C	3D292-1B	TAPE START	C	3D288-3C	TYPE ₁₆	C	3D288-2A
㉒	C	3D291-3B	㉓	G	3D292-1A	H22	BA	3D296-2B	OUTPUT SHIFT	C	3D292-1B	TR	FF	3D295-3B	TYPE ₁₇	C	3D288-1A
㉔	SM	TYPEWRITE	㉕	G	3D292-3B	H23	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B	TC	FF	3D295-3B	TYPE ₁₈	C	3D288-2A
㉖	C	3D288-2B	㉗	G	3D292-3B	H24	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B	TD	FF	3D295-2A	TYPE ₁₉	C	3D288-3B
㉘	SM	TYPEWRITE	㉙	G	3D292-3B	H25	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B	TF	G, BI	3D295-2C	TYPE ₂₀	C	3D288-3B
㉚	FF	3D292-3C	㉛	G	3D292-2B	H26	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B	TH	BA	3D295-3C	TYPE ₂₁	C	3D290-2A
㉜	FF	3D292-3C	㉝	G	3D288-1A	H27	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B	TI	G, BI	3D291-2C	TYPE ₂₂	C	3D290-3B
㉞	FF	3D292-3C	㉟	G	3D293-2C	H28	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B	TS	FF	3D295-3A	TYPE ₂₃	C	3D290-2B
㊱	FF	3D292-3C	㊲	G	3D292-3B	H29	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B	TYPE	C	3D288-1B			
㊳	FF	3D292-3C	㊴	G	3D288-1C	H30	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㊵	FF	3D292-2C	㊶	G	3D292-3B	H31	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㊷	FF	3D292-2C	㊸	G	3D292-3B	H32	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㊹	FF	3D292-2C	㊹	G	3D292-3B	H33	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㊺	FF	3D292-2C	㊺	G	3D292-3B	H34	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㊻	FF	3D292-2C	㊻	G	3D292-3B	H35	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㊼	FF	3D292-2C	㊼	G	3D292-3B	H36	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㊽	FF	3D292-2C	㊽	G	3D292-3B	H37	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㊾	FF	3D292-2C	㊾	G	3D292-3B	H38	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㊿	FF	3D292-2C	㊿	G	3D292-3B	H39	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
①	C	3D291-1B	②	G	3D292-3B	H40	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
③	C	3D291-1B	④	G	3D292-3B	H41	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
⑤	C	3D291-1B	⑥	G	3D292-3B	H42	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
⑦	C	3D291-1B	⑦	G	3D292-3B	H43	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
⑧	C	3D291-1B	⑧	G	3D292-3B	H44	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
⑨	C	3D291-1B	⑨	G	3D292-3B	H45	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
⑩	C	3D291-1B	⑩	G	3D292-3B	H46	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
⑪	C	3D291-1B	⑪	G	3D292-3B	H47	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
⑫	C	3D291-1B	⑫	G	3D292-3B	H48	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
⑬	C	3D291-1B	⑬	G	3D292-3B	H49	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
⑭	C	3D291-1B	⑭	G	3D292-3B	H50	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
⑮	C	3D291-1B	⑮	G	3D292-3B	H51	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
⑯	C	3D291-1B	⑯	G	3D292-3B	H52	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
⑰	C	3D291-1B	⑰	G	3D292-3B	H53	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
⑱	C	3D291-1B	⑱	G	3D292-3B	H54	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
⑲	C	3D291-1B	⑲	G	3D292-3B	H55	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
⑳	C	3D291-1B	⑳	G	3D292-3B	H56	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㉑	C	3D291-1B	㉑	G	3D292-3B	H57	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㉒	C	3D291-1B	㉒	G	3D292-3B	H58	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㉓	C	3D291-1B	㉓	G	3D292-3B	H59	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㉔	C	3D291-1B	㉔	G	3D292-3B	H60	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㉕	C	3D291-1B	㉕	G	3D292-3B	H61	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㉖	C	3D291-1B	㉖	G	3D292-3B	H62	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㉗	C	3D291-1B	㉗	G	3D292-3B	H63	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㉘	C	3D291-1B	㉘	G	3D292-3B	H64	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㉙	C	3D291-1B	㉙	G	3D292-3B	H65	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㉚	C	3D291-1B	㉚	G	3D292-3B	H66	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㉛	C	3D291-1B	㉛	G	3D292-3B	H67	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㉜	C	3D291-1B	㉜	G	3D292-3B	H68	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㉝	C	3D291-1B	㉝	G	3D292-3B	H69	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㉞	C	3D291-1B	㉞	G	3D292-3B	H70	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
㉟	C	3D291-1B	㉟	G	3D292-3B	H71	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
①	C	3D291-1B	①	G	3D292-3B	H72	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
②	C	3D291-1B	②	G	3D292-3B	H73	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
③	C	3D291-1B	③	G	3D292-3B	H74	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
④	C	3D291-1B	④	G	3D292-3B	H75	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
⑤	C	3D291-1B	⑤	G	3D292-3B	H76	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
⑥	C	3D291-1B	⑥	G	3D292-3B	H77	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
⑦	C	3D291-1B	⑦	G	3D292-3B	H78	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
⑧	C	3D291-1B	⑧	G	3D292-3B	H79	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
⑨	C	3D291-1B	⑨	G	3D292-3B	H80	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						
⑩	C	3D291-1B	⑩	G	3D292-3B	H81	BA	3D290-3C	OUTPUT SHIFT	C	3D292-1B						

FROM TERM INAL	SIGNAL	FROM UNIT	TO TERM INAL	TO UNIT	FROM TERM INAL	SIGNAL	FROM UNIT	TO TERM INAL	TO UNIT	FROM TERM INAL	SIGNAL	FROM UNIT	TO TERM INAL	TO UNIT
A-C-A	CS	16	A00A	AS	C0-A	CS + CE	16	C00A	AS	E 0-A	CB	CS	E00A	AS
	B	16	A00B	AS	C0-B	CS	16	C00B	AS	E 0-B	CB	CS	E00B	AS
	C	16	A00C	AS	C0-C	CS	16	C00C	AS	E 0-C	CB	CS	E00C	AS
	D	16	A00D	AS	C0-D	CS	16	C00D	AS	E 0-D	CB	CS	E00D	AS
	E	16	A00E	AS	C0-E	CS	16	C00E	AS	E 0-E	CB	CS	E00E	AS
	F	16	A00F	AS	C0-F	CS	16	C00F	AS	E 0-F	CB	CS	E00F	AS
	G	16	A00G	AS	C0-G	CS	16	C00G	AS	E 0-G	CB	CS	E00G	AS
	H	16	A00H	AS	C0-H	CS	16	C00H	AS	E 0-H	CB	CS	E00H	AS
	I	16	A00I	AS	C0-I	CS	16	C00I	AS	E 0-I	CB	CS	E00I	AS
	J	16	A00J	AS	C0-J	CS	16	C00J	AS	E 0-J	CB	CS	E00J	AS
	K	16	A00K	AS	C0-K	CS	16	C00K	AS	E 0-K	CB	CS	E00K	AS
	L	16	A00L	AS	C0-L	CS	16	C00L	AS	E 0-L	CB	CS	E00L	AS
	M	16	A00M	AS	C0-M	CS	16	C00M	AS	E 0-M	CB	CS	E00M	AS
	N	16	A00N	AS	C0-N	CS	16	C00N	AS	E 0-N	CB	CS	E00N	AS
	O	16	A00O	AS	C0-O	CS	16	C00O	AS	E 0-O	CB	CS	E00O	AS
	P	16	A00P	AS	C0-P	CS	16	C00P	AS	E 0-P	CB	CS	E00P	AS
	Q	16	A00Q	AS	C0-Q	CS	16	C00Q	AS	E 0-Q	CB	CS	E00Q	AS
	R	16	A00R	AS	C0-R	CS	16	C00R	AS	E 0-R	CB	CS	E00R	AS
	S	16	A00S	AS	C0-S	CS	16	C00S	AS	E 0-S	CB	CS	E00S	AS
	T	16	A00T	AS	C0-T	CS	16	C00T	AS	E 0-T	CB	CS	E00T	AS
	U	16	A00U	AS	C0-U	CS	16	C00U	AS	E 0-U	CB	CS	E00U	AS
	V	16	A00V	AS	C0-V	CS	16	C00V	AS	E 0-V	CB	CS	E00V	AS
	W	16	A00W	AS	C0-W	CS	16	C00W	AS	E 0-W	CB	CS	E00W	AS
	X	16	A00X	AS	C0-X	CS	16	C00X	AS	E 0-X	CB	CS	E00X	AS
	Y	16	A00Y	AS	C0-Y	CS	16	C00Y	AS	E 0-Y	CB	CS	E00Y	AS
	Z	16	A00Z	AS	C0-Z	CS	16	C00Z	AS	E 0-Z	CB	CS	E00Z	AS
A-01	CS	16	A00A	AS	C0-A	CS	16	C00A	AS	E 0-A	CB	CS	E00A	AS
B-01	CS	16	B00B	AS	C0-B	CS	16	C00B	AS	E 0-B	CB	CS	E00B	AS
C-01	CS	16	C00C	AS	C0-C	CS	16	C00C	AS	E 0-C	CB	CS	E00C	AS
D-01	CS	16	D00D	AS	C0-D	CS	16	C00D	AS	E 0-D	CB	CS	E00D	AS
E-01	CS	16	E00E	AS	C0-E	CS	16	C00E	AS	E 0-E	CB	CS	E00E	AS
F-01	CS	16	F00F	AS	C0-F	CS	16	C00F	AS	E 0-F	CB	CS	E00F	AS
G-01	CS	16	G00G	AS	C0-G	CS	16	C00G	AS	E 0-G	CB	CS	E00G	AS
H-01	CS	16	H00H	AS	C0-H	CS	16	C00H	AS	E 0-H	CB	CS	E00H	AS
I-01	CS	16	I00I	AS	C0-I	CS	16	C00I	AS	E 0-I	CB	CS	E00I	AS
J-01	CS	16	J00J	AS	C0-J	CS	16	C00J	AS	E 0-J	CB	CS	E00J	AS
K-01	CS	16	K00K	AS	C0-K	CS	16	C00K	AS	E 0-K	CB	CS	E00K	AS
L-01	CS	16	L00L	AS	C0-L	CS	16	C00L	AS	E 0-L	CB	CS	E00L	AS
M-01	CS	16	M00M	AS	C0-M	CS	16	C00M	AS	E 0-M	CB	CS	E00M	AS
N-01	CS	16	N00N	AS	C0-N	CS	16	C00N	AS	E 0-N	CB	CS	E00N	AS
O-01	CS	16	O00O	AS	C0-O	CS	16	C00O	AS	E 0-O	CB	CS	E00O	AS
P-01	CS	16	P00P	AS	C0-P	CS	16	C00P	AS	E 0-P	CB	CS	E00P	AS
Q-01	CS	16	Q00Q	AS	C0-Q	CS	16	C00Q	AS	E 0-Q	CB	CS	E00Q	AS
R-01	CS	16	R00R	AS	C0-R	CS	16	C00R	AS	E 0-R	CB	CS	E00R	AS
S-01	CS	16	S00S	AS	C0-S	CS	16	C00S	AS	E 0-S	CB	CS	E00S	AS
T-01	CS	16	T00T	AS	C0-T	CS	16	C00T	AS	E 0-T	CB	CS	E00T	AS
U-01	CS	16	U00U	AS	C0-U	CS	16	C00U	AS	E 0-U	CB	CS	E00U	AS
V-01	CS	16	V00V	AS	C0-V	CS	16	C00V	AS	E 0-V	CB	CS	E00V	AS
W-01	CS	16	W00W	AS	C0-W	CS	16	C00W	AS	E 0-W	CB	CS	E00W	AS
X-01	CS	16	X00X	AS	C0-X	CS	16	C00X	AS	E 0-X	CB	CS	E00X	AS
Y-01	CS	16	Y00Y	AS	C0-Y	CS	16	C00Y	AS	E 0-Y	CB	CS	E00Y	AS
Z-01	CS	16	Z00Z	AS	C0-Z	CS	16	C00Z	AS	E 0-Z	CB	CS	E00Z	AS

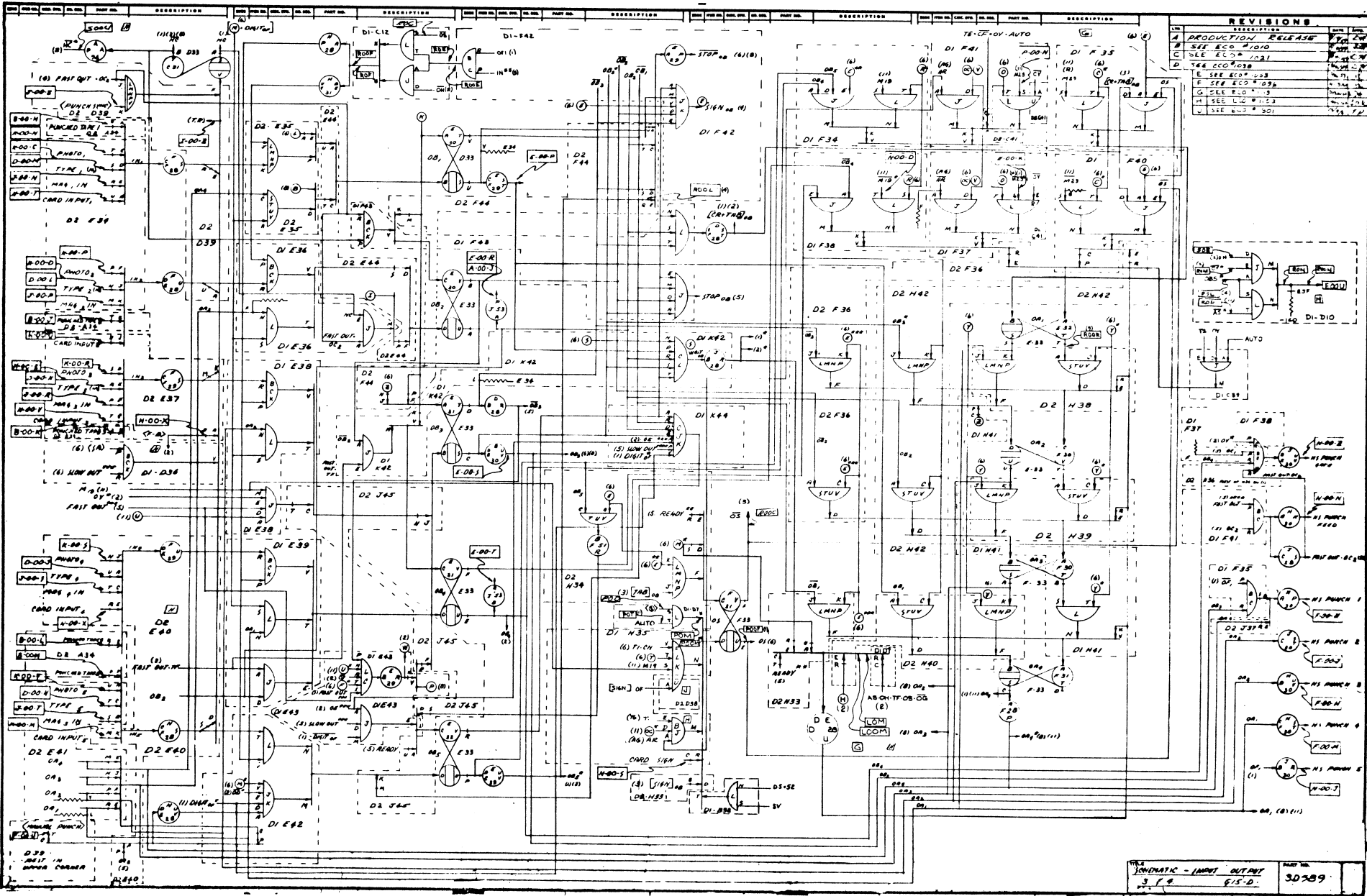
FROM TERM INAL	SIGNAL	FROM UNIT	TO TERM INAL	TO UNIT	FROM TERM INAL	SIGNAL	FROM UNIT	TO TERM INAL	TO UNIT	FROM TERM INAL	SIGNAL	FROM UNIT	TO TERM INAL	TO UNIT
U-01	CS	16	U00U	AS	C0-U	CS	16	C00U	AS	E 0-U	CB	CS	E00U	AS
	B AP	CS	100B	AS	C0-B	CS	100B	AS	E 0-B	CB	CS	100B	AS	
	C AR	CS	100C	AS	C0-C	CS	100C	AS	E 0-C	CB	CS	100C	AS	
	D CP	CS	100D	AS	C0-D	CS	100D	AS	E 0-D	CB	CS	100D	AS	
	E CP	CS	100E	AS	C0-E	CS	100E	AS	E 0-E	CB	CS	100E	AS	
	F CE	CS	100F	AS	C0-F	CS	100F	AS	E 0-F	CB	CS	100F	AS	
	G (S)	CS	100G	AS	C0-G	CS	100G	AS	E 0-G	CB	CS	100G	AS	
	H (AUTO PAUSE START)	CS	100H	AS	C0-H	CS	100H	AS	E 0-H	CB	CS	100H	AS	
	K SPARE	CS	100K	AS	C0-K	CS	100K	AS	E 0-K	CB	CS	100K	AS	
	L SPARE	CS	100L	AS	C0-L	CS	100L	AS	E 0-L	CB	CS	100L	AS	
	M M3	M	100M	AS	C0-M	M	100M	AS	E 0-M	CB	M	100M	AS	
	N FM	CS	100N	AS	C0-N	CS	100N	AS	E 0-N	CB	CS	100N	AS	
	P SPARE	CS	100P	AS	C0-P	CS	100P	AS	E 0-P	CB	CS	100P	AS	
	R RETURN	CS	100R	AS	C0-R	CS	100R	AS	E 0-R	CB	CS	100R	AS	
	S TO	CS	100S	AS	C0-S	CS	100S	AS	E 0-S	CB	CS	100S	AS	
	T (CLEAR)	CS	100T	AS	C0-T	CS	100T	AS	E 0-T	CB	CS	100T	AS	
	U (S)	CS	100U	AS	C0-U	CS	100U	AS	E 0-U	CB	CS	100U	AS	
	V TO	CS	100V	AS	C0-V	CS	100V	AS	E 0-V	CB	CS	100V	AS	
	X (CLEAR)	CS	100X	AS	C0-X	CS	100X	AS	E 0-X	CB	CS	100X	AS	
U-02	CS	16	U00U	AS	C0-U	CS	16	C00U	AS	E 0-U	CB	CS	E00U	AS
K-01	CS	16	K00K	AS	C0-K	CS	16	C00K	AS	E 0-K	CB	CS	E00K	AS
B-01	CS	16	B00B	AS	C0-B	CS	16	C00B	AS	E 0-B	CB	CS	E00B	AS
C-01	CS	16	C00C	AS	C0-C	CS	16	C00C	AS	E 0-C	CB	CS	E00C	AS
D-01	CS	16	D00D	AS	C0-D	CS	16	C00D	AS	E 0-D	CB	CS	E00D	AS
E-01	CS	16	E00E	AS	C0-E	CS	16	C00E	AS	E 0-E	CB	CS	E00E	AS
F-01	CS	16	F00F	AS	C0-F	CS	16	C00F	AS	E 0-F	CB	CS	E00F	AS
G-01	CS	16	G00G	AS	C0-G	CS	16	C00G	AS	E 0-G	CB	CS	E00G	AS
H-01	CS	16	H00H	AS	C0-H	CS	16	C00H	AS	E 0-H	CB	CS	E00H	AS
I-01	CS	16	I00I	AS	C0-I	CS	16	C00I	AS	E 0-I	CB	CS	E00I	AS
J-01	CS	16	J00J	AS	C0-J	CS	16	C00J	AS	E 0-J	CB	CS	E00J	AS
K-01	CS	16	K00K	AS	C0-K	CS	16	C00K	AS	E 0-K	CB	CS	E00K	AS
L-01	CS	16	L00L	AS	C0-L	CS	16	C00L	AS	E 0-L	CB	CS	E00L	AS
M-01	CS	16	M00M	AS	C0-M	CS	16	C00M	AS	E 0-M	CB	CS	E00M	AS
N-01	CS	16	N00N	AS	C0-N	CS	16	C00N	AS	E 0-N	CB	CS	E00N	AS
O-01	CS	16	O00O	AS	C0-O	CS	16	C00O	AS	E 0-O	CB	CS	E00O	AS
P-01	CS	16	P00P	AS	C0-P	CS	16	C00P	AS	E 0-P	CB	CS	E00P	AS
Q-01	CS	16	Q00Q	AS	C0-Q	CS	16	C00Q	AS	E 0-Q	CB	CS	E00Q	AS
R-01	CS	16	R00R	AS	C0-R	CS	16	C00R	AS	E 0-R	CB	CS	E00R	AS
S-01	CS	16	S00S	AS	C0-S	CS	16	C00S	AS	E 0-S	CB	CS	E00S	AS
T-01	CS	16	T00T	AS	C0-T	CS	16	C00T	AS	E 0-T	CB	CS	E00T	AS
U-01	CS	16	U00U	AS	C0-U	CS	16	C00U	AS	E 0-U	CB	CS	E00U	AS
V-01	CS	16	V00V	AS	C0-V	CS	16	C00V	AS	E 0-V	CB	CS	E00V	AS
W-01	CS	16	W00W	AS	C0-W	CS	16	C00W	AS	E 0-W	CB	CS	E00W	AS
X-01	CS	16	X00X	AS	C0-X	CS	16	C00X	AS	E 0-X	CB	CS	E00X	AS
Y-01	CS	16	Y00Y	AS	C0-Y	CS	16	C00Y	AS	E 0-Y	CB	CS	E00Y	AS
Z-01	CS	16	Z00Z	AS	C0-Z	CS	16	C00Z	AS	E 0-Z	CB	CS	E00Z	AS

REVISION	
NO.	DESCRIPTION
A	PRODUCTION RELEASE
B	SEE ECO# 1021
C	S&E ECO# 1028

FROM TERMINAL	SIGNAL	FROM UNIT	TO TERMINAL	TO UNIT	FROM TERMINAL	SIGNAL	FROM UNIT	TO TERMINAL	TO UNIT	FROM TERMINAL	SIGNAL	FROM UNIT	TO TERMINAL	TO UNIT
B00-A	ZT	AG	A-0-A	CS	C-00-B	CS+CR	AG	C-0-A	I6	F00-A	DB	AG	E-0-A	CS
B	SPARE	AG	A-0-B	CS	B	CR	AG	C-0-B	CS	B	CR	AG	E-0-B	CS
C	AP	AG	A-0-C	CS	C	1U**	AG	C-0-C	CS	C	CE	AG	E-0-C	CS
D	CB	AG	A-0-D	CS	D	1W	MT	C-0-D	CS	D	CF	T6	E-0-D	CS
E	ZT	T6	A-0-E	CS	E	PC	AG	C-0-E	FO	E	CR	T6	F-0-E	CG
F	(3) PL174	F	PL174	CS	F	PL174	F	F	PL174	F	PL174	AG	E-0-F	CG
H	(2) PL1715	H	PL1715	CS	H	PL1715	H	H	PL1715	H	PL1715	AG	E-0-H	CG
J	OB	(3) PL1710	PL1710	CS	J	PL1710	J	J	PL1710	J	PL1710	AG	E-0-J	CG
K				CS	K	DS SS SW	CS	PL18-B	CR	K	CR	X	CMD READ PALE	B
L				CS	L	PHOTO TAPE REY	B	PL18-CL	CR	L	PHOTO TAPE FWD	S	PL18-CK	AG
M				CS	M	DS-S+R	CS	PL18-CV	CR	M	CRD READ SIGNAL	B	PL18-CX	AG
N				CS	N	DS	AG	C-0-N	I6	N	DS	AG	E-0-N	CS
P				CS	P	PG CLEAR	AG	C-0-P	IG	P	OB	3	PL18-AP	AG
R	MAG. TAPE PALE	MT	PL15-24	CS	R	A3	1	C-0-R	M	R	OB2	3	PL18-AR	AG
S	MAG TAPE STOP	3	PL15-25	CS	S	SPARE	CS	C-0-S	S	S	OB3	3	PL18-AN	AG
T	MAG. TAPE REY	MT	PL15-26	CS	T	J2	2	C-0-T	CS	T	OB4	3	PL18-AM	AG
V				CS	V	J29***	11	C-0-V	CG	V	LEVEL 5	4	PL18-AI	AG
X				CS	X	DT	AG	C-0-X	CS	X	TYPE PAUSE	4	PL18-AD	AG
X	MAG 1 IN	1	PL15-B	CS	X	TO	T6	PL121-D	DAV	X	MES*	4	E-0-X	M
Z	MAG TAPE & OUT	MT	PL15-15	CS	Z	TS	T6	C-0-Z	FO	Z	SPARE	4	E-0-Z	AG
B00-B	OC, NEON	5	T82-C1	CS	B	SI	MT	D-0-A	CS	F-00-A	10*	2	F-0-A	CS
B	OC2 NEON	5	T82-DH	CS	B	TS	T6	D-0-B	IG	B	AV	AG	F-0-B	CS
C	OC3 NEON	5	T82-DH	CS	C	IS	AG	D-0-C	CS	C	ST*	AG	F-0-C	CS
D	OC4 NEON	5	T82-DH	CS	D	SV	AG	D-0-D	CS	D	13 VOLTS	D	F-0-D	CS
E	OC5 NEON	FO	T82-C1	CS	E	TS	AG	D-0-E	CS	E	CC	1	F-0-E	CG
F	(3)	AG	PL17-23	CS	F	TS	AG	D-0-F	CS	F	DS	11	F-0-F	CS
H	MAG 1 IN	PL17-24	PL17-24	CS	H	TYPE 3	3	PL17-14	TYP	H	N.S. PUNCH 3	4	PL17-13	TYP
J	MAG 2 IN	PL17-25	PL17-25	CS	J	TYPE 4	3	PL17-16	TYP	J	N.S. PUNCH 2	4	PL17-15	TYP
K	MAG 3 IN	PL17-26	PL17-26	CS	K	TYPE 5	3	PL17-15	TYP	K	READY**	5	PL17-14	TYP
L	MAG 4 IN	PL17-27	PL17-27	CS	L	TYPE 2	3	PL17-14	TYP	L	OB3	11	F-0-K	CS
M	MAG 5 IN	PL17-28	PL17-28	CS	M	TYPE 1	3	PL17-13	TYP	M	N.S. PUNCH 4	4	PL17-16	TYP
N	READY	(1) PL17-29	PL17-29	CS	N	TYPE 5	3	PL17-12	TYP	N	N.S. PUNCH 1	4	PL17-15	TYP
P	(2)	(4) PL17-30	PL17-30	CS	P	MAG 1 OUT	B	PL15-3	CS	P	LB	AG	F-0-P	CS
R	(3)	(2) PL17-31	PL17-31	CS	R	MAG 2 OUT	B	PL15-6	CS	R	LB*	AG	F-0-R	CS
S	(4)	(1) PL17-32	PL17-32	CS	S	MAG 3 OUT	B	PL15-5	CS	S	IS	8	F-0-S	CS
T	PHOTO TAPE FWD	(5) PL17-33	PL17-33	CS	T	MAG 4 OUT	B	PL15-10	CS	T	LB**	AG	F-0-T	M
U	TS	T6	B-0-V	IG	U	MAG 5 OUT	B	PL15-12	CS	U	MAIN PUNCH	4	F-0-U	CG
V	TS	T6	B-0-V	IG	V	(MANUAL PUNCH)	B	PL15-4	TYP	V	(3)	AG	F-0-V	CS
X	CS	AG	B-0-X	CS	X	LB***	AG	D-0-X	M	X	(4)	AG	F-0-X	CS
Z	IS	AG	B-0-Z	IG	Z	AA	AG	D-0-Z	FO	Z	CF	5	F-0-Z	CS

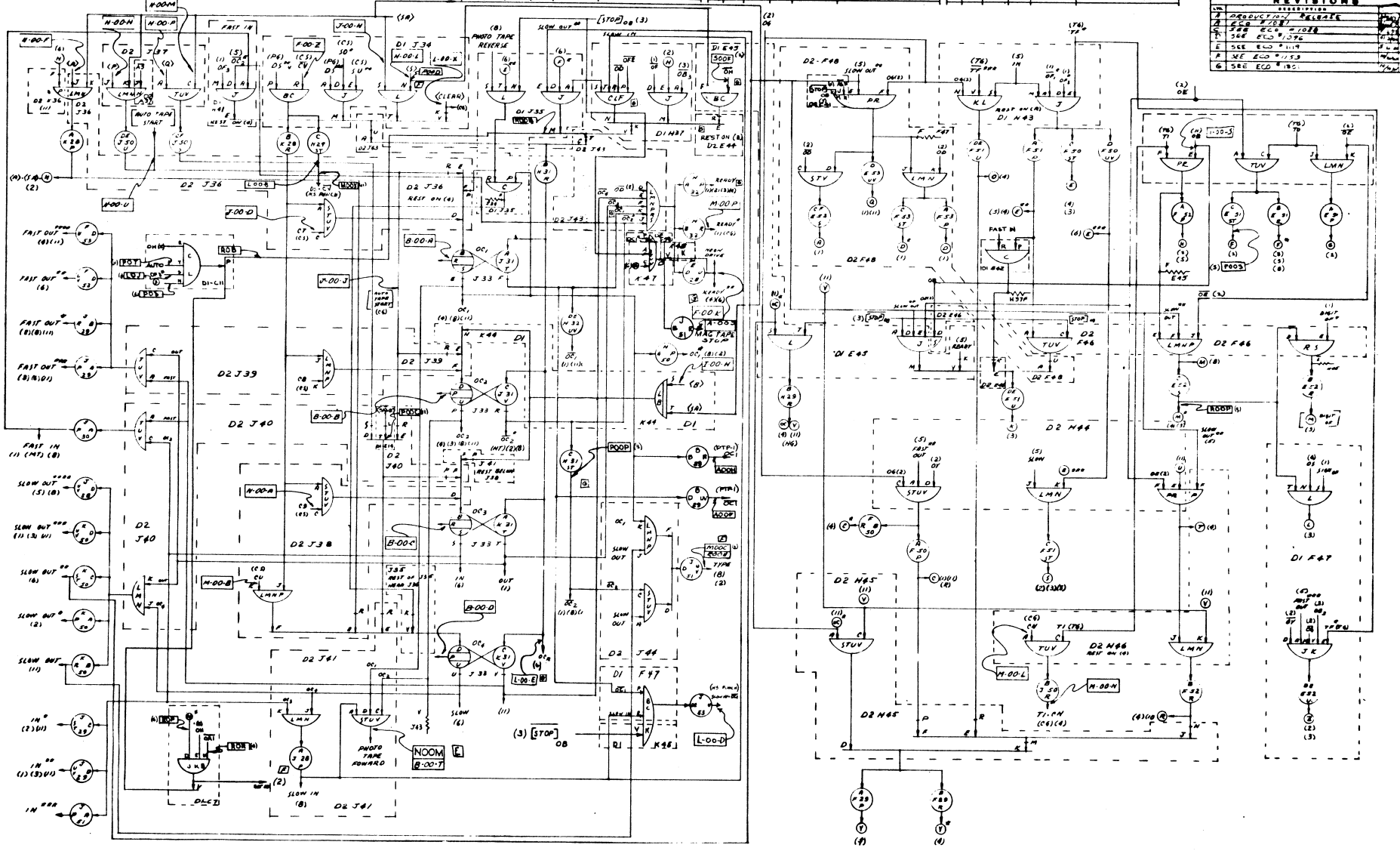
FROM TERMINAL	SIGNAL	FROM UNIT	TO TERMINAL	TO UNIT	FROM TERMINAL	SIGNAL	FROM UNIT	TO TERMINAL	TO UNIT	FROM TERMINAL	SIGNAL	FROM UNIT	TO TERMINAL	TO UNIT
J-00-A	DS*	AG	J-0-A	CS	J-00-A	DB	AG	H-0-A	CS	J-00-A	DB	AG	H-0-A	CS
B	AR	AG	J-0-B	CS	B	DS-CP	5	PL17-11	CS	B	CE	T6	N-0-B	CS
C	AR	AG	J-0-C	CS	C	TF***	T6	PL17-12	CS	C	M19*	11	N-0-C	CS
D	CF	5	J-0-D	CS	D	SLOW IN* DGI	5	PL17-13	CS	D	M19*	3	N-0-D	M
E	CF	AG	J-0-E	CS	E	SPARE	L-0-E	E	SPARE	E	SPARE	AG	N-0-E	CS
F	CE	AG	J-0-F	CS	F	SPARE	L-0-F	F	START	CS	N-0-F	CS	F	SET OB 3,4
H	(3R)	5	J-0-H	CS	H	SPARE	L-0-H	H	STOP	CS	N-0-H	CS	H	TYPE
J	(AUTO TAPE START)	5	J-0-J	CG	J	SPARE	L-0-J	J	T29*	T6	N-0-J	CG	J	SLOW OUT***
K	SPARE	J-0-K	X	T21	1	L-0-K	CG	K	T29	11	N-0-K	CG	K	SP
L	SPARE	J-0-L	L	TR2	AG	L-0-L	CG	L	T2	AG	N-0-L	CG	L	OB5*
M	M3	1	J-0-M	M	M	SPARE	L-0-M	M	SPARE	N-0-M	M	OT*	2	ROM 4
N	MAG 1 IN	3	PL15-19	CS	N	PM	AG	L-0-N	CG	N	TR	AG	N-0-N	CG
P	MAG 2 IN	3	PL15-20	CS	P	SPARE	L-0-P	P	TF*	T6	N-0-P	CG	P	OB*
R	MAG 3 IN	3	PL15-21	CS	R	RETURN	AG	L-0-R	CG	R	M1	AG	N-0-R	M
S	MAG 4 IN	3	PL15-22	CS	S	TO	T6	L-0-S	CG	S	CARD SIGN	3	PL18-20	CS
T	MAG 5 IN	3	PL15-23	CS	T	SPARE	L-0-T	T	CARD INPUT 1	3	PL18-1	CS	T	OB
U				CS	U	T13-T21	T6	L-0-U	CG	U	CARD INPUT 2	3	PL18-2	CS
V				CS	V	FB	AG	L-0-V	FO	V	CARD INPUT 3	3	PL18-3	CS
X	PUNCH SIGNAL	B	PL18-DM	CS	X	(CLEAR)	5	T82-AN	AG	X	CARD INPUT 4	3	PL18-4	CS
Z	(PUNCH SYNC)	1,3	PL18-B	CS	Z	CC-2	AG	N-0-Z	CS	Z	SPARE	N-0-Z	CS	CC-2
B00-B	CS-CE	AG	H-0-A	CS	B	M00-A	DX*	11	M-0-A	CS	B	CC-6	AG	
B	DU	AG	H-0-B	CS	B	CU	5	M-0-B	CS	B	(SA)-(E)+OT	2	POB	11
C	TYPE 1	3	K-0-C	M	C	(SA)-(E)	5	POL	11	C	(M19-1ET)	11	T80-B4	T.P.
D	TYPE 2	3	K-0-D	M	D					D				
E	TYPE 3	3	K-0-E	M	E					E	-20 VOLTS	T14-3	L	OH
F	LB	AG	H-0-F	CG	F	SPARE	N-0-F	F	OS	4	POP	1	F	OH
H	LB***	AG	H-0-H	M	H	T29**	T6	M-0-H	CG	H	S.P.R.I.D.V.A	T14-4	L	
J	LB	AG	H-0-J	M	J	T29	T6	M-0-J	CG	J	OG*	2	POJ	2
K	SPARE	H-0-K	X	T13	T6	M-0-K	CG	K	RCR	T14-11	K			
L	M2	1	H-0-L	M	L	CN	6	M-0-L	CG	L	RCC	T14-12	L	
M	M2	1	K-0-M	M	M	CMD INPUT 5	3	PL18-5	CS	M				
N	PHOTO 1	3	T81-DR	TR	N	T1-CN	6	M-0-N	CG	N	M23*	4	T80-AP	T.P.
P	PHOTO 2	3	T81-DB	TR	P	READY*	5	M-0-P	CG	P	OC4	5	POP	2
R	PHOTO 3	3	T81-DC	TR	R	T1*	T6	M-0-R	CG	R				
S	PHOTO 4	3	T81-DD	TR	S	EB	11	M-0-S	EB	S	(3)	6	POS	5
T	PHOTO 5	3	T81-DE	TR	T	INTERLOCK	M-0-T	T	AS-IN	11	POV	(M19-1U)	T	SET OP
U				CS	U	SPARE	M-0-U	U	-20 VOLTS	T14-8	N	TC*	2	SOU 3
V	T29***	T6	M00-B5	DM	V	SPARE	M-0-V	V						
X	TF	AG	DS-CE	CS	X	DS-CE	5	M-0-X	11	X	AS*	11	POV	(M19-1U)
Z	IS	11	K-0-Z	CS	Z	SPARE	M-0-Z	Z	WP	T14-8	X			

FILE SHEET - LEFT SIDE TAPER AND LOCATIONS 6550 46077 C

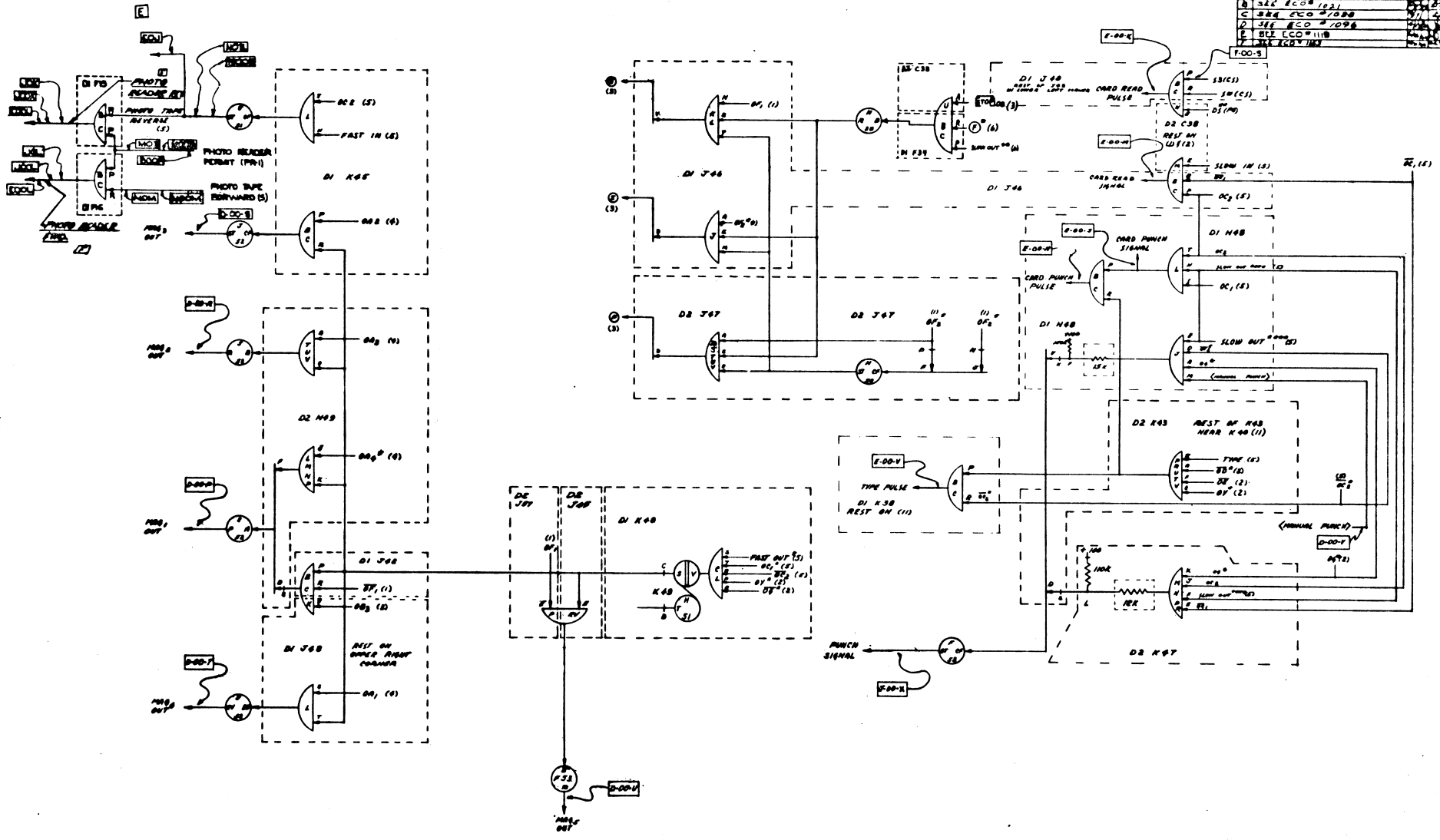


REVISIONS	
NO.	DESCRIPTION
1	PRODUCTION RELEASE
2	SEE ECO #1010
3	SEE ECO #1031
4	SEE ECO #1038
5	SEE ECO #1039
6	SEE ECO #1043
7	SEE ECO #1049
8	SEE ECO #1053
9	SEE ECO #1059
10	SEE ECO #1061

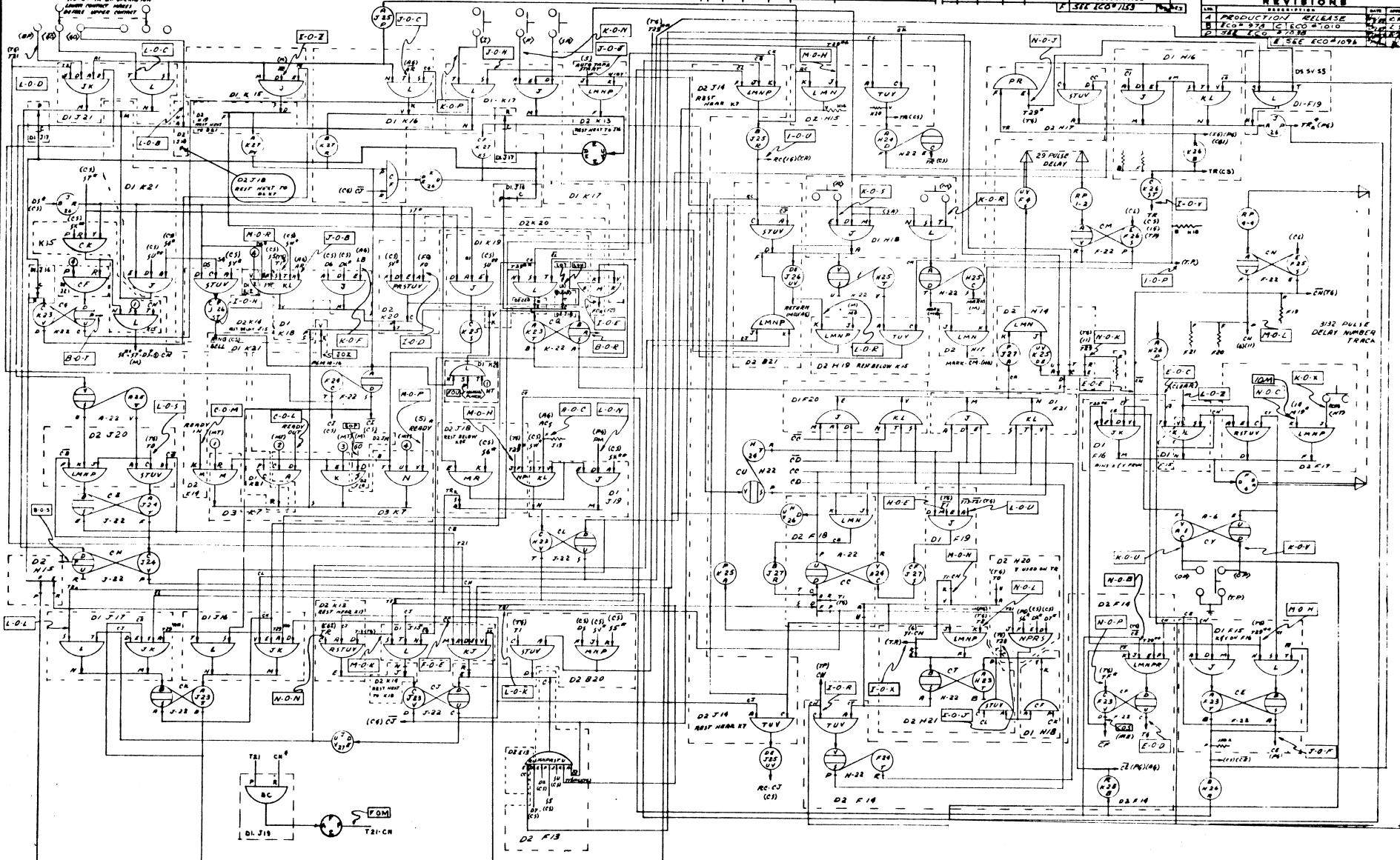
SYMBOLIC - INPUT OUTPUT
3 F 4 815-D
30589

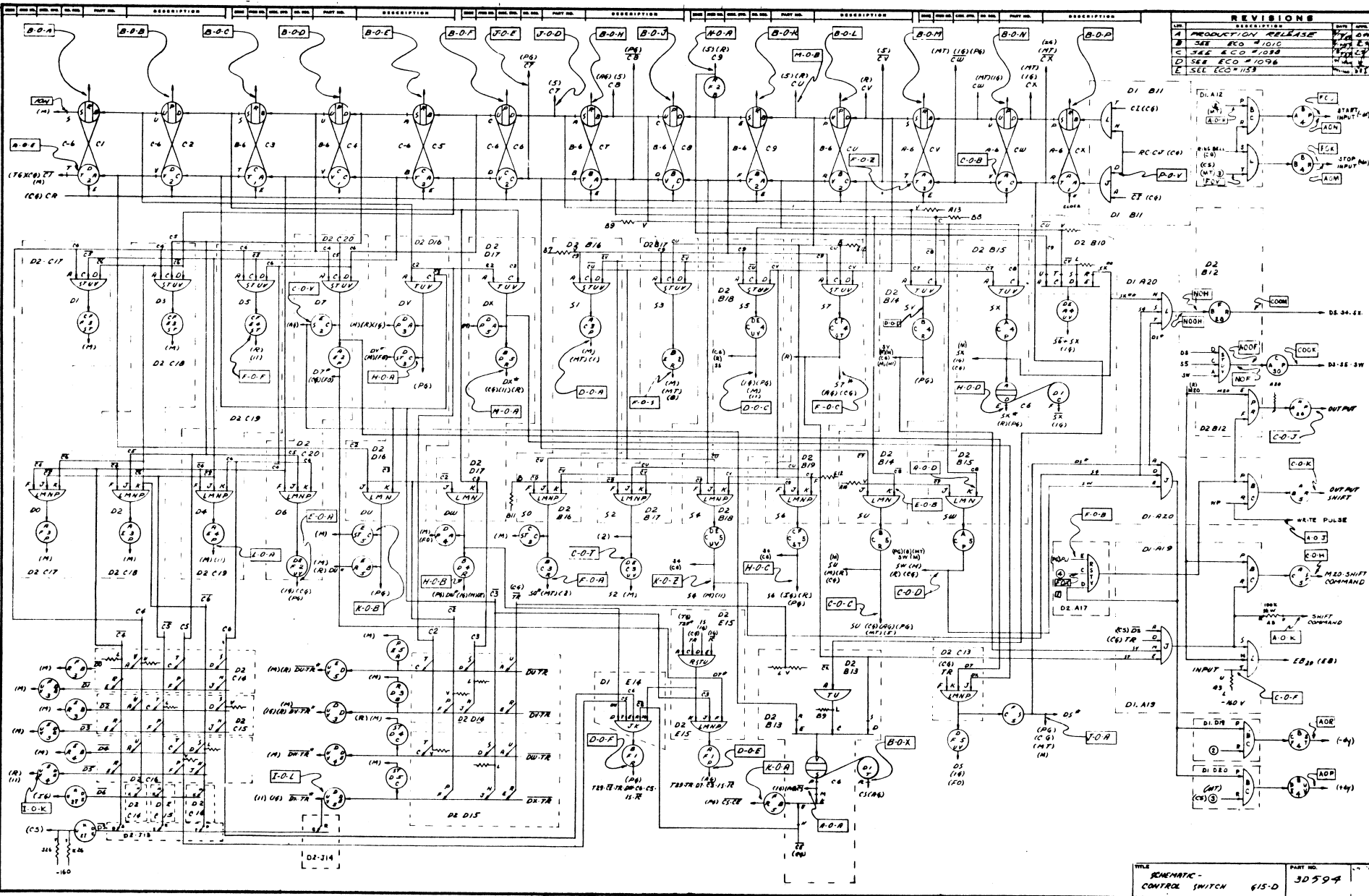


REVISIONS	
NO.	DESCRIPTION
A	PRODUCTION RELEASE
B	SEE ECO # 1021
C	SEE ECO # 1020
D	SEE ECO # 1026
E	SEE ECO # 1118
F	SEE ECO # 1119

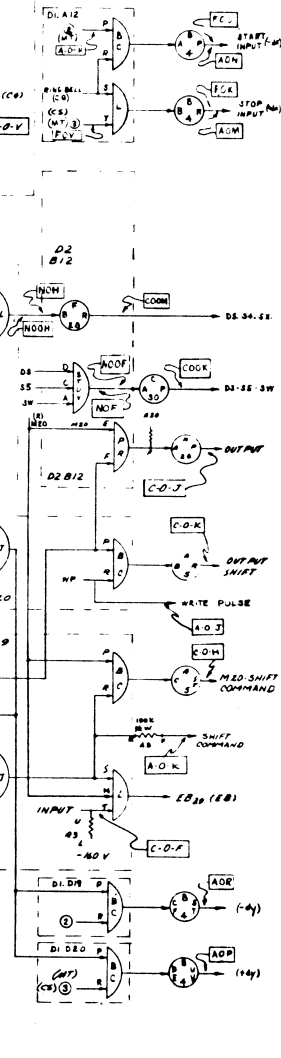


REVISIONS	
1	PRODUCTION RELEASE
2	ECO 1078 TELE CO-1010
3	SEE ECO 1078
4	SEE ECO 1078
5	SEE ECO 1078

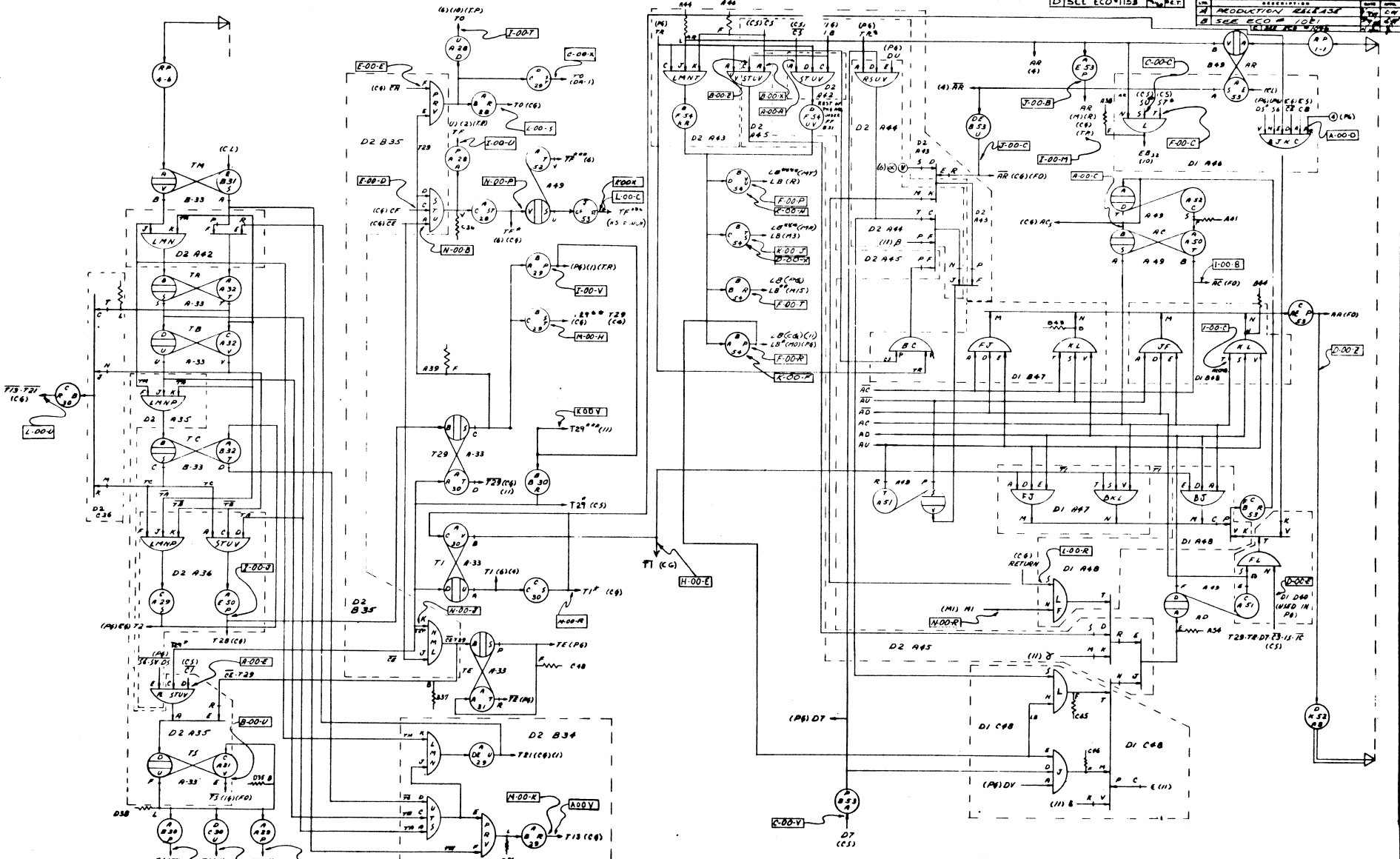




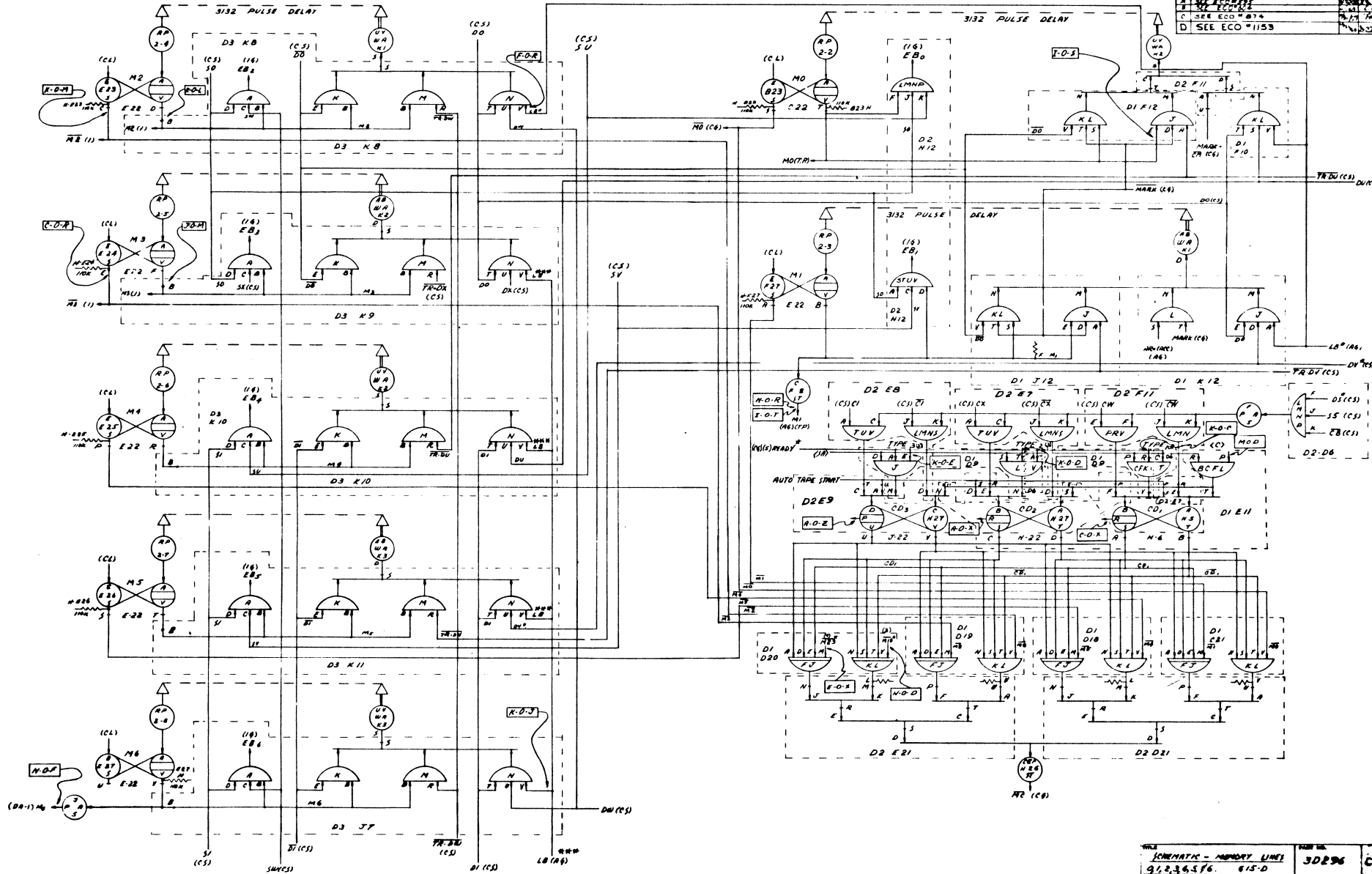
REVISIONS			
NO.	DATE	BY	REASON
1			ISSUED
2			REVISIONS
3			REVISIONS
4			REVISIONS
5			REVISIONS
6			REVISIONS



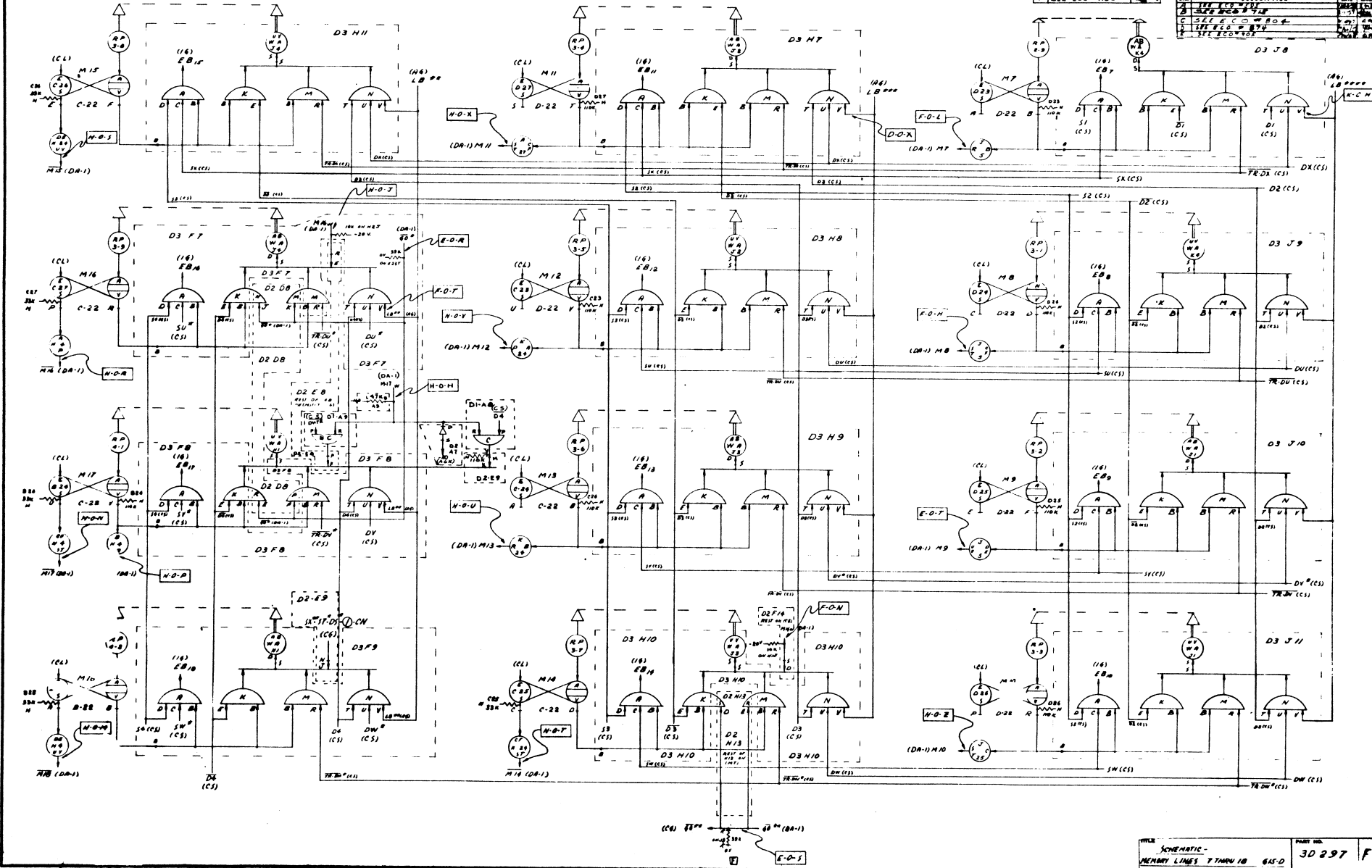
REVISIONS	
NO.	DESCRIPTION
1	PRODUCTION RELEASE
2	SEE ECO = 1061
3	CHANGE PER 1061



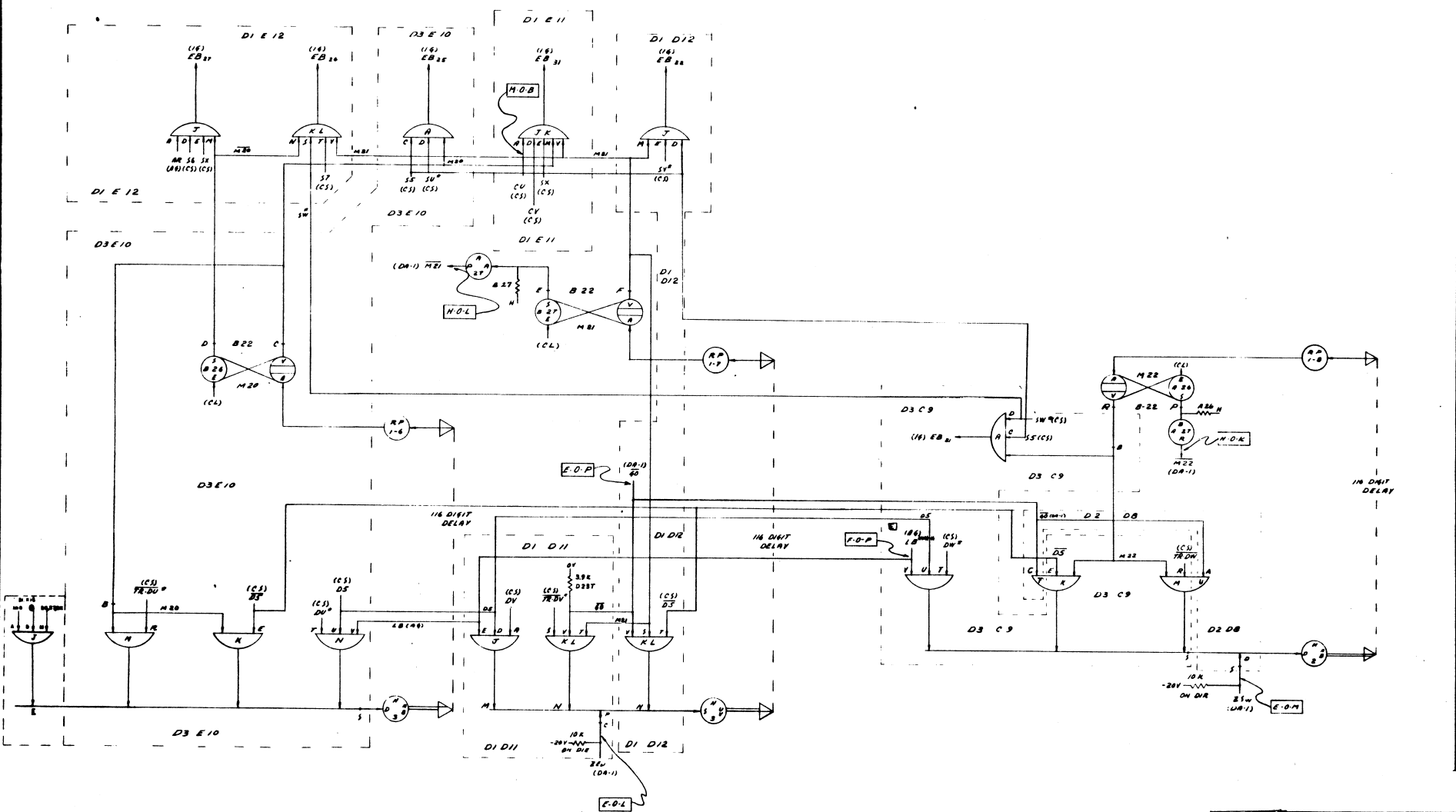
REVISIONS	
NO.	DESCRIPTION
1	REVISED
2	REVISED
3	REVISED
4	REVISED
5	REVISED
6	REVISED
7	REVISED
8	REVISED
9	REVISED
10	REVISED
11	REVISED
12	REVISED
13	REVISED
14	REVISED
15	REVISED
16	REVISED
17	REVISED
18	REVISED
19	REVISED
20	REVISED
21	REVISED
22	REVISED
23	REVISED
24	REVISED
25	REVISED
26	REVISED
27	REVISED
28	REVISED
29	REVISED
30	REVISED
31	REVISED
32	REVISED
33	REVISED
34	REVISED
35	REVISED
36	REVISED
37	REVISED
38	REVISED
39	REVISED
40	REVISED
41	REVISED
42	REVISED
43	REVISED
44	REVISED
45	REVISED
46	REVISED
47	REVISED
48	REVISED
49	REVISED
50	REVISED
51	REVISED
52	REVISED
53	REVISED
54	REVISED
55	REVISED
56	REVISED
57	REVISED
58	REVISED
59	REVISED
60	REVISED
61	REVISED
62	REVISED
63	REVISED
64	REVISED
65	REVISED
66	REVISED
67	REVISED
68	REVISED
69	REVISED
70	REVISED
71	REVISED
72	REVISED
73	REVISED
74	REVISED
75	REVISED
76	REVISED
77	REVISED
78	REVISED
79	REVISED
80	REVISED
81	REVISED
82	REVISED
83	REVISED
84	REVISED
85	REVISED
86	REVISED
87	REVISED
88	REVISED
89	REVISED
90	REVISED
91	REVISED
92	REVISED
93	REVISED
94	REVISED
95	REVISED
96	REVISED
97	REVISED
98	REVISED
99	REVISED
100	REVISED



REVISIONS		DATE	BY
1	ISS. ECO # 1183		
2	ISS. ECO # 1184		
3	ISS. ECO # 1185		
4	ISS. ECO # 1186		
5	ISS. ECO # 1187		
6	ISS. ECO # 1188		
7	ISS. ECO # 1189		

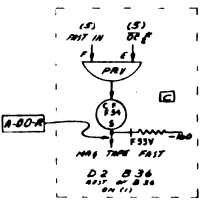
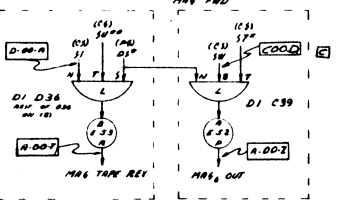
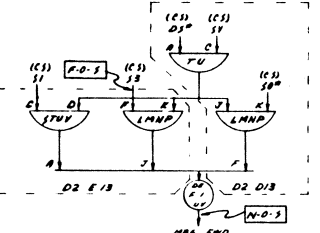
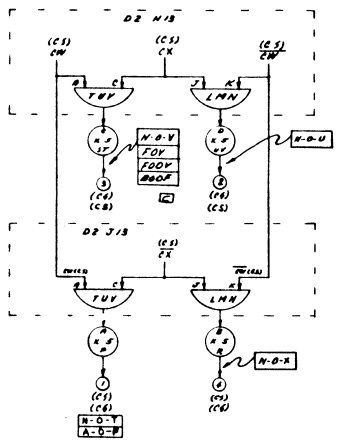


REVISIONS			
REV	DESCRIPTION	DATE	BY
A	SEE ECO #555	7-11-54	WV
B	SEE ECO #104	7-11-54	WV
C	SEE ECO #1074	7-11-54	WV
D	SEE ECO #1096	7-11-54	WV
E	SEE ECO #1153	7-11-54	WV



SCHEMATIC -
 PART NO. 30298 E
 WALTERS M20 M21 M22 Q15-D

REVISIONS	
NO.	DESCRIPTION
A	PRODUCTION RELEASE
B	SEE ECO # 1096
C	SEE ECO # 1183



REVISES	
1	PRODUCTION RELEASE
2	SEE ECO #1010
3	SEE ECO #1021
4	SEE ECO #1088
5	SEE ECO #119
6	SEE ECO #1153
7	SEE ECO #1166
8	SEE ECO #120

RIGHT LOGIC PANEL

TAPER PIN BLOCKS
A PLACES

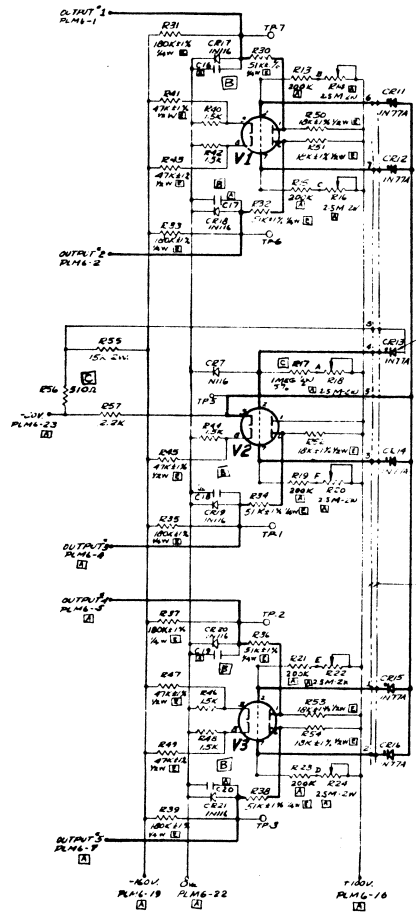
	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	
A	CFI	CFI	FF	FF	FF	DC	DB	DB	DB	DB	DI	DI	DI	DI	D2	D2	D2	D2	D2	D2	DI	DI	DC	FF	BI	BI	RA	CFI
B	CFI	CFI	CFI	RA	FF	DC	D2	D2	D2	DI	DI	DI	DI	DI	D1	D1	D1	D1	D1	D1	DI	DI	DC	FF	BI	BI	RA	CFI
C	CFI	CFI	CFI	FF	DC	D2	D2	D2	D2	DI	DI	DI	DI	DI	D1	D1	D1	D1	D1	D1	DI	DI	DC	FF	BI	BI	RA	CFI
D	CFI	CFI	CFI	FF	DC	D2	D2	D2	D2	DI	DI	DI	DI	DI	D1	D1	D1	D1	D1	D1	DI	DI	DC	FF	BI	BI	RA	CFI
E	CFI	CFI	CFI	FF	DC	D2	D2	D2	D2	DI	DI	DI	DI	DI	D1	D1	D1	D1	D1	D1	DI	DI	DC	FF	BI	BI	RA	CFI
F	CFI	CFI	CFI	FF	DC	D2	D2	D2	D2	DI	DI	DI	DI	DI	D1	D1	D1	D1	D1	D1	DI	DI	DC	FF	BI	BI	RA	CFI
N	CFI	CFI	CFI	FF	DC	D2	D2	D2	D2	DI	DI	DI	DI	DI	D1	D1	D1	D1	D1	D1	DI	DI	DC	FF	BI	BI	RA	CFI
J	CFI	CFI	CFI	FF	DC	D2	D2	D2	D2	DI	DI	DI	DI	DI	D1	D1	D1	D1	D1	D1	DI	DI	DC	FF	BI	BI	RA	CFI
K	CFI	CFI	CFI	FF	DC	D2	D2	D2	D2	DI	DI	DI	DI	DI	D1	D1	D1	D1	D1	D1	DI	DI	DC	FF	BI	BI	RA	CFI

TAPER PIN BLOCKS
M PLACES

LEFT LOGIC PANEL

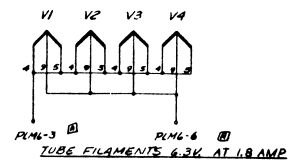
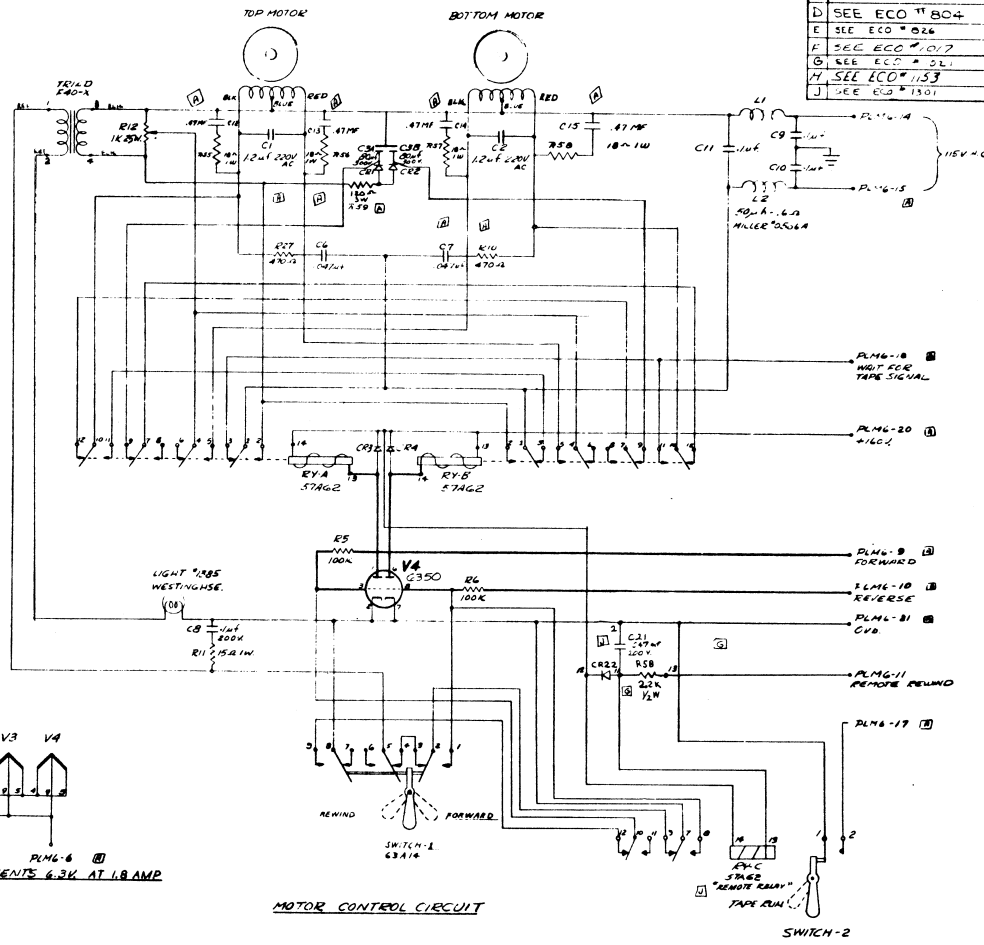
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
A	FF	FF	BI	CFI	CFI	DC	DB	DI	DI	D2	DI	DI	D2	D2	DI	DI	D2	D2	D2	D2	DI	DI	DC	FF	BI	BI	RA	CFI
B	FF	FF	BI	CFI	CFI	DC	DB	DI	DI	D2	DI	DI	D2	D2	DI	DI	D2	D2	D2	D2	DI	DI	DC	FF	BI	BI	RA	CFI
C	FF	FF	BI	CFI	CFI	DC	DB	DI	DI	D2	DI	DI	D2	D2	DI	DI	D2	D2	D2	D2	DI	DI	DC	FF	BI	BI	RA	CFI
D	FF	FF	BI	CFI	CFI	DC	DB	DI	DI	D2	DI	DI	D2	D2	DI	DI	D2	D2	D2	D2	DI	DI	DC	FF	BI	BI	RA	CFI
E	FF	FF	BI	CFI	CFI	DC	DB	DI	DI	D2	DI	DI	D2	D2	DI	DI	D2	D2	D2	D2	DI	DI	DC	FF	BI	BI	RA	CFI
F	FF	FF	BI	CFI	CFI	DC	DB	DI	DI	D2	DI	DI	D2	D2	DI	DI	D2	D2	D2	D2	DI	DI	DC	FF	BI	BI	RA	CFI
N	FF	FF	BI	CFI	CFI	DC	DB	DI	DI	D2	DI	DI	D2	D2	DI	DI	D2	D2	D2	D2	DI	DI	DC	FF	BI	BI	RA	CFI
J	FF	FF	BI	CFI	CFI	DC	DB	DI	DI	D2	DI	DI	D2	D2	DI	DI	D2	D2	D2	D2	DI	DI	DC	FF	BI	BI	RA	CFI
K	FF	FF	BI	CFI	CFI	DC	DB	DI	DI	D2	DI	DI	D2	D2	DI	DI	D2	D2	D2	D2	DI	DI	DC	FF	BI	BI	RA	CFI

REVISES	
NO.	DESCRIPTION
A	SEE ECO # 489
B	SEE ECO # 566
C	SEE ECO # 567
D	SEE ECO # 804
E	SEE ECO # 926
F	SEE ECO # 017
G	SEE ECO # 021
H	SEE ECO # 1153
J	SEE ECO # 1301

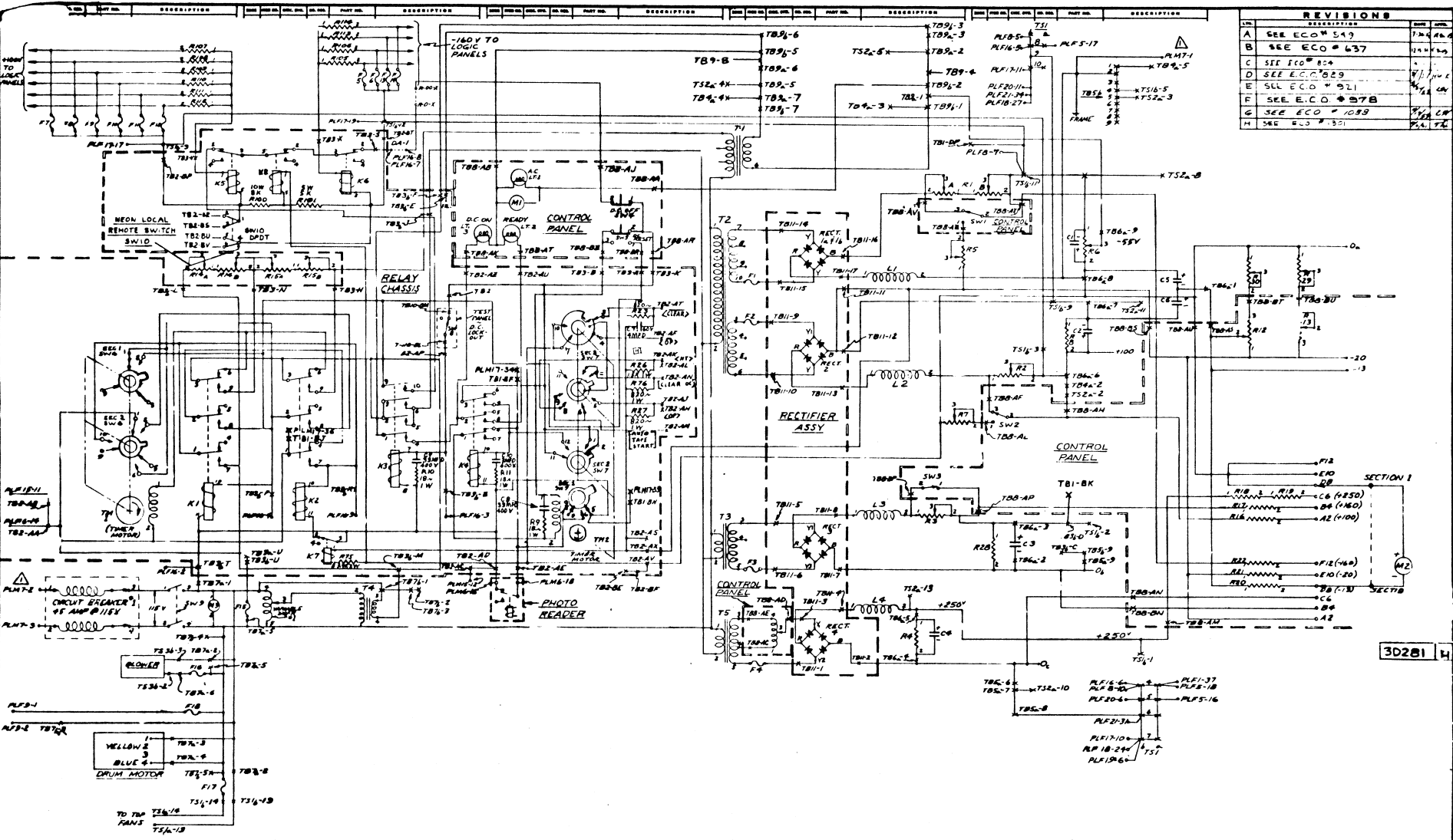


100-0-100V
 500-0-500V

PL13 - COV1
 SEE PHOTO-PROCESSES

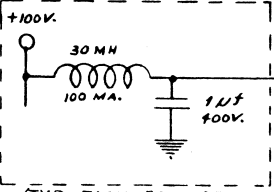


3D230 J



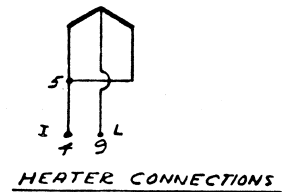
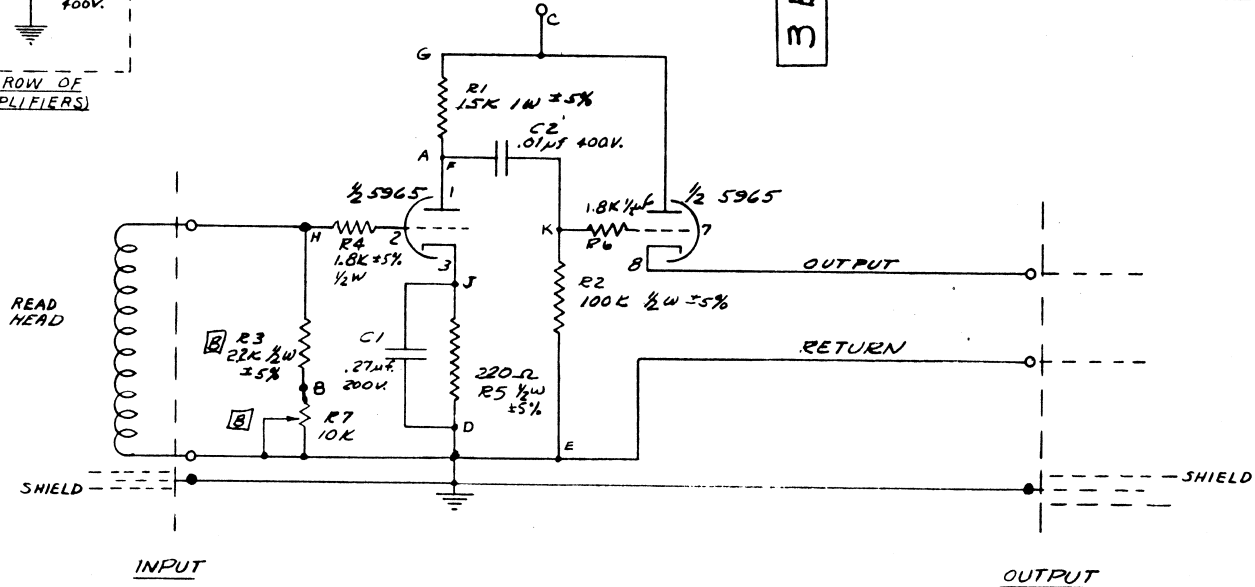
REV	DESCRIPTION	DATE
A	SEE ECO # 549	7/24/64
B	SEE ECO # 637	11/14/64
C	SEE ECO # 824	
D	SEE ECO # 829	4/1/65
E	SEE ECO # 921	1/28/65
F	SEE ECO # 978	3/24/65
G	SEE ECO # 1089	3/24/65
H	SEE ECO # 1321	3/24/65

2. SEE 15962 WIRED ASSY RELAY CHASSIS (APPE FRAME ASSY) 004
 WIRING IDENTIFICATION: PARTS LOCATION
 PLM7-2 IS NEUTRAL LINE (WHITE WIRE)
 PLM7-1 IS EQUIPMENT GROUND (GREEN WIRE)
 NOTES: UNLESS SPECIFIED



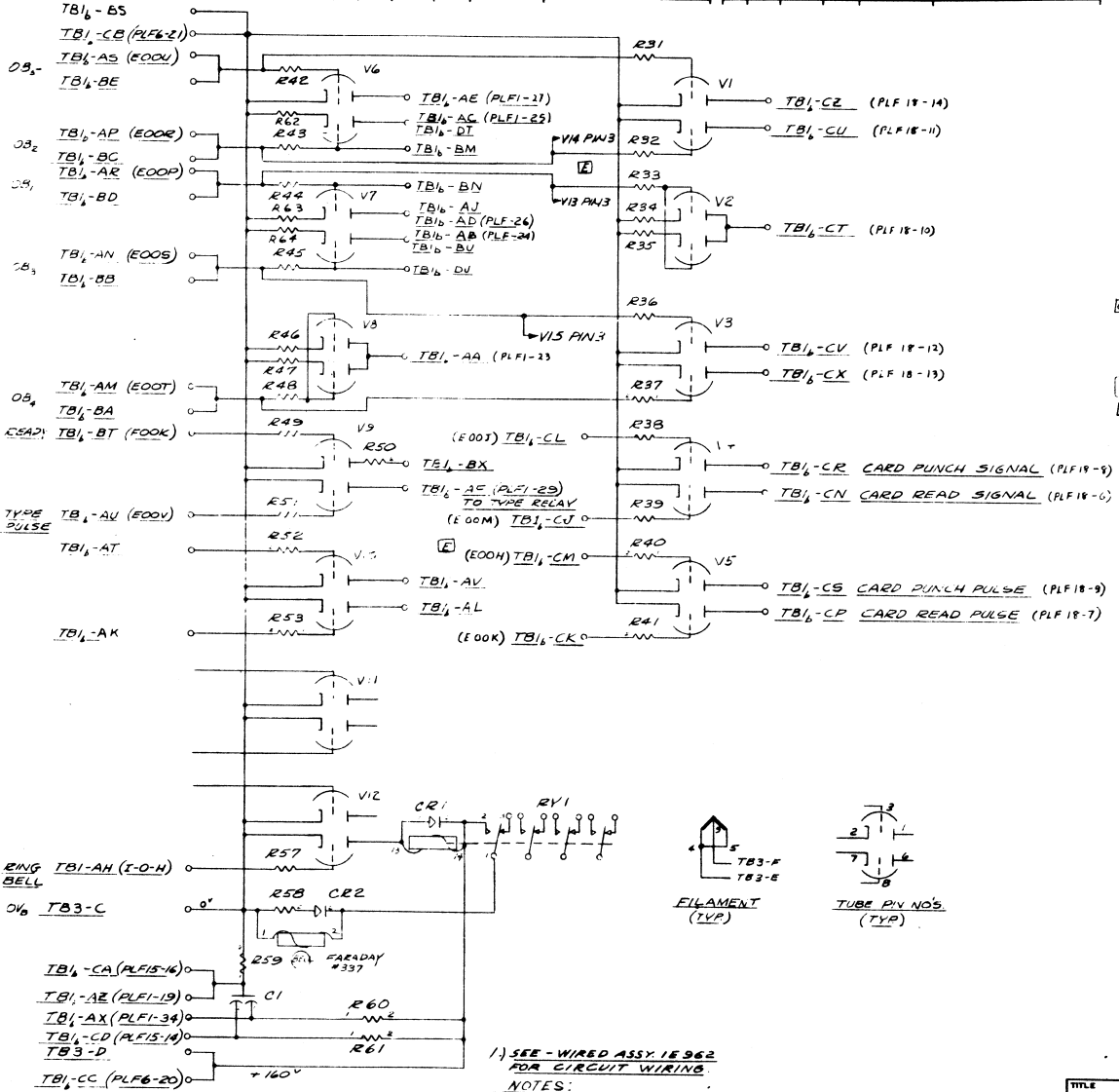
(TYP. EACH ROW OF 3 PRE AMPLIFIERS)

ITEM NO.	NO. REQ.	PART NO.	DESCRIPTION	REVISIONS			
		3B111		LTR.	DESCRIPTION	DATE	APPR.
				A	SEE ECO 171	2/18/55	R 9700
				B	SEE ECO 479	8/14/55	RM



TITLE	PART NO.	C4G LET
SCHMATIC - READ PREAMP	3B111	B

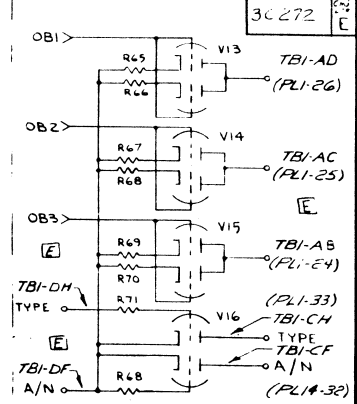
REV.	TRF. NO.	CNC. DTS.	NO. DES.	PART NO.	DESCRIPTION	REV.	TRF. NO.	CNC. DTS.	NO. DES.	PART NO.	DESCRIPTION
------	----------	-----------	----------	----------	-------------	------	----------	-----------	----------	----------	-------------



REVISIONS			
REV.	DESCRIPTION	DATE	APPN.
A	SEE ECO # 542	6/16/48	RWB
B	SEE ECO # 804	7/1/48	RWB
C	SEE ECO # 905	7/21/48	RWB
D	SEE ECO # 1021	7/27/48	RWB
E	SEE ECO # 1153	8/11/48	RWB

C/PL	REV.	PART NO.	DESCRIPTION
R31	3	RESISTOR	200 OHM 1/2 W
R32	2	RESISTOR	200 OHM 1/2 W
R33	2	RESISTOR	200 OHM 1/2 W
R34	10	RESISTOR	200 OHM 1/2 W
R35	2	RESISTOR	200 OHM 1/2 W
R36	2	RESISTOR	200 OHM 1/2 W
R37	2	RESISTOR	200 OHM 1/2 W
R38	2	RESISTOR	200 OHM 1/2 W
R39	3	RESISTOR	200 OHM 1/2 W
R40	2	RESISTOR	200 OHM 1/2 W
R41	1	RESISTOR	200 OHM 1/2 W
R42	1	RESISTOR	200 OHM 1/2 W
R43	1	RESISTOR	200 OHM 1/2 W
R44	1	RESISTOR	200 OHM 1/2 W
R45	1	RESISTOR	200 OHM 1/2 W
R46	1	RESISTOR	200 OHM 1/2 W
R47	1	RESISTOR	200 OHM 1/2 W
R48	1	RESISTOR	200 OHM 1/2 W
R49	1	RESISTOR	200 OHM 1/2 W
R50	1	RESISTOR	120K 1/2 W
R51	3	RESISTOR	100K 1/2 W
R52	1	TUBE	6350 OR EQUIV
R53	1	RESISTOR	2K 1/2 W
R54	1	RELAY	57A62

R55	2	RESISTOR	200 OHM 1/2 W
R56	1	RESISTOR	100K 1/2 W
R57	1	RESISTOR	200 OHM 1/2 W
R58	1	RESISTOR	200 OHM 1/2 W
R59	1	RESISTOR	200 OHM 1/2 W
R60	1	RESISTOR	200 OHM 1/2 W
R61	1	RESISTOR	200 OHM 1/2 W



A/N TYPEWRITER MODIFICATION

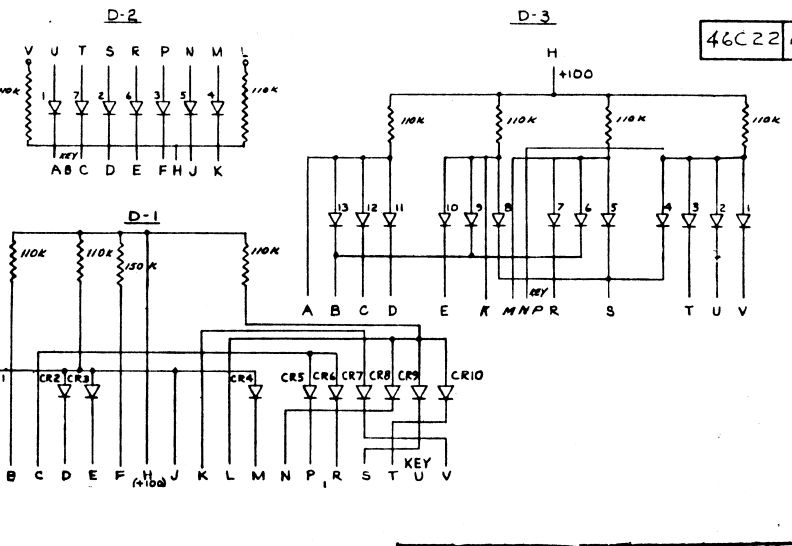
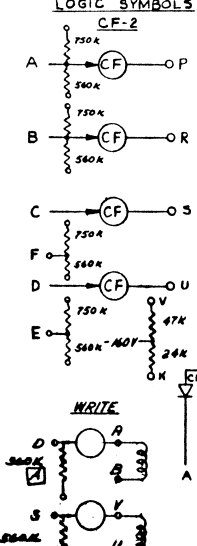
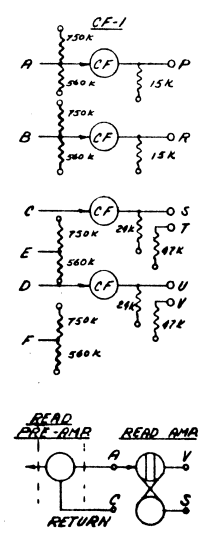
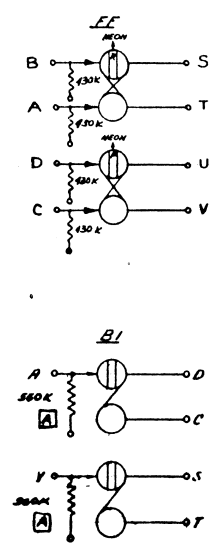
1) SEE - WIRED ASSY 1E962 FOR CIRCUIT WIRING.

NOTES:

TITLE	SCHEMATIC - REL CHASSIS	PART NO.	3C272	CNC. DTS.	E
-------	-------------------------	----------	-------	-----------	---

PIN LETTERS

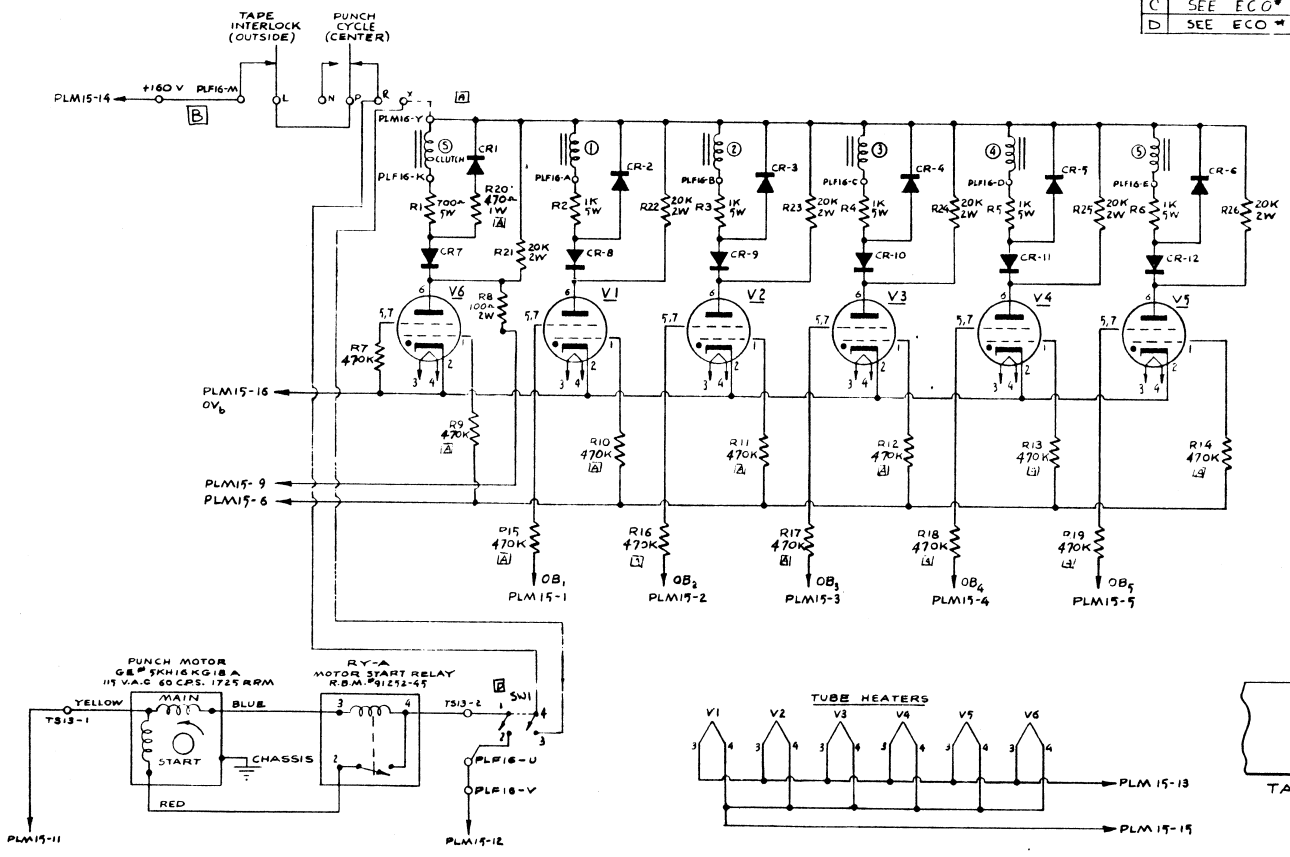
PART NO.	PACKAGE	PKG. SYMBOL	HANDLE COLOR	A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T	U	V
IC998	FLIP FLOP	FF	YELLOW	INPUT 1B	INPUT 1A	INPUT 2B	INPUT 2A	CLOCK	OPEN	KEY	OVA	OPEN	-160V.	HTR @ 55V.	HTR @ 55V.	NEON 2	NEON 1	OUTPUT 1A	OUTPUT 1B	OUTPUT 2A	OUTPUT 2B
IC1140	BUFFER INVERTER	BI	BLUE	INPUT 1	OPEN	OUTPUT 1B	OUTPUT 1A	OPEN	OPEN	+100V.	OVA	OPEN	-160V.	HTR @ 55V.	HTR @ 55V.	KEY	OPEN	OUTPUT 2A	OUTPUT 2B	OPEN	INPUT 2
IC1144	CATHODE FOLLOWER	CF-1	RED	INPUT 1	INPUT 2	INPUT 3	INPUT 4	GRID DIVIDER	GRID DIVIDER	+100V	OVA	KEY	-160V.	HTR @ 55V.	HTR @ 55V.	OUTPUT 1	OUTPUT 2	OUTPUT 3	47K TO B-	OUTPUT 4	47K TO B-
IC1007	READ AMP	RA	GREEN	INPUT 1	SHIELD	RETURN	READ CLOCK	CLOCK	KEY	+100V	OVA	OPEN	-160V.	HTR @ 85V.	HTR @ 55V.	OPEN	OPEN	OUTPUT 1B	OPEN	OPEN	OUTPUT 1A
IC1156	WRITE AMP	WA	BLACK	OUTPUT 1A	OUTPUT 1B	SHIELD	INPUT 1	KEY	+250V	+100V	OPEN	OVC	-160V.	HTR @ 55V.	HTR @ 55V.	WRITE PULSE	OPEN	INPUT 2	SHIELD	OUTPUT 2B	OUTPUT 2A
IC993	DIODE CLAMP	DC		CL ₁	CL ₂	CL ₃	CL ₄	CL ₅	CL ₆	+100V	OVA	-20V	°JUMPER°		KEY	CL ₇	CL ₈	CL ₉	CL ₁₀	CL ₁₁	CL ₁₂
IC964	DIODE 1	D1		C ₁	110K TO B+	P _{5,6}	C ₂	C ₃	150K TO B+	+100V	P _{1,2,3,4}	P ₇	P _{8,9,10}	C ₄	C ₈	C ₅	C ₆	C ₉	C ₁₀	KEY	C ₇
IC991	DIODE 2	D2		C ₁	KEY	C ₇	C ₂	C ₆	C ₃	+100V	C ₅	C ₄	110K TO B+	P ₄	P ₅	P ₃	P ₆	P ₂	P ₇	P ₁	110K TO B+
IC1142	DIODE 3	D3		P _{11,12,13}	C _{8,9,13}	C ₁₂	C ₁₁	C ₁₀	OPEN	+100V	OPEN	P _{8,9,10}	OPEN	P _{5,6,7}	P _{1,2,3,4}	KEY	C ₇	C _{4,5,8}	C ₃	C ₂	C ₁
IC1009	CLOCK CLAMP	CC		OPEN	OPEN	OPEN	OPEN	CLOCK	OPEN	OPEN	OVA	-20V	-13V	OPEN	OPEN	WRITE PULSE	KEY	SP	LEVEL @ -70V.	RC RETURN	READ PULSE (CLAMP)
IC1107	CATHODE FOLLOWER	CF-2	NATURAL	INPUT 1	INPUT 2	INPUT 3	INPUT 4	GRID DIVIDER	GRID DIVIDER	+100V	OVA	24K TO B-	-160V	HTR @ 55V.	HTR @ 55V.	OUTPUT 1	OUTPUT 2	OUTPUT 3	KEY	OUTPUT 4	47K TO B-



46C22 B

QWK	ITEM NO.	CHG. BY	REV. NO.	PART NO.	DESCRIPTION	QWK	ITEM NO.	CHG. BY	REV. NO.	PART NO.	DESCRIPTION
-----	----------	---------	----------	----------	-------------	-----	----------	---------	----------	----------	-------------

REVISIONS		DATE	APPR.
A	SEE ECO # 487	4/6/51	LN
B	SEE ECO # 519	4/6/51	LN
C	SEE ECO # 504	4/6/51	LN
D	SEE ECO # 928	4/6/51	LN



30246 D



- 6. REFERENCE 1E908 W. REL ASSY. TAPE PUNCH
- 1. CR7 THRU CR12 INCL. "FEDERAL" 1101A OR EQUIV.
- 4. CR1 THRU CR6 : CR-3B - INTERNATIONAL RECTIFIER CORP.
- 3. MOTOR ROTATION VIEWED FROM END OPPOSITE SHAFT EXTENSION
- 2. ALL RESISTORS: 1/2 W. ± 5%
- 1. ALL TUBES : 2021

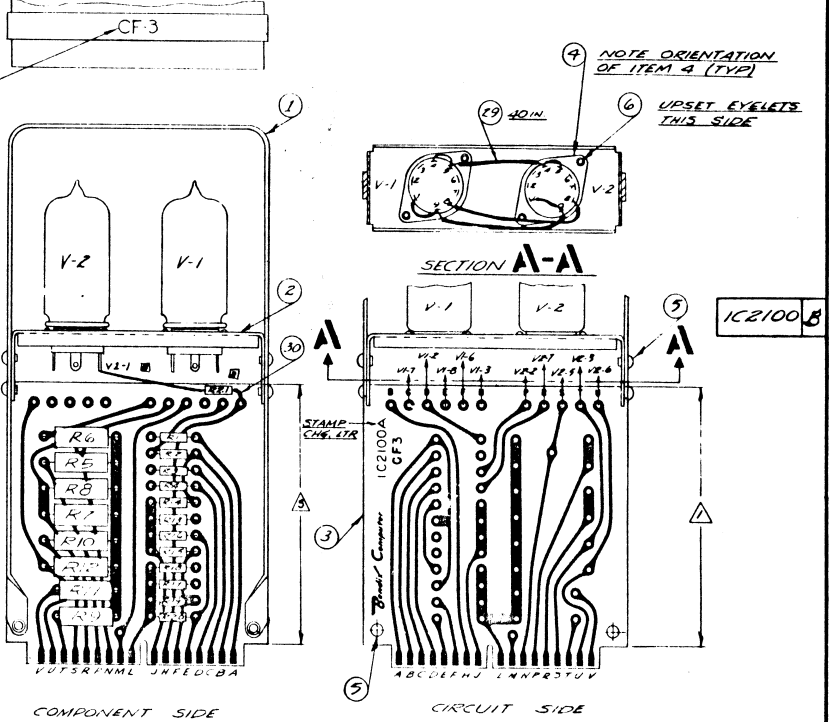
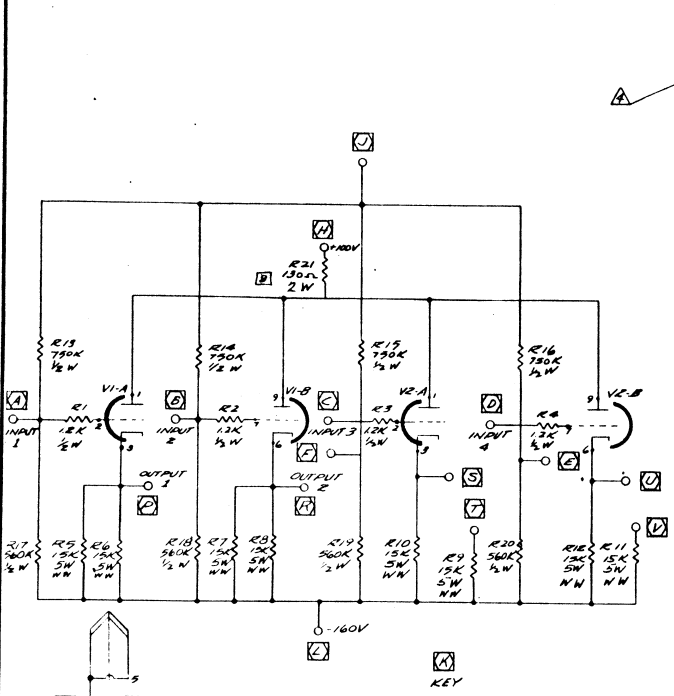
NOTES: UNLESS OTHERWISE SPECIFIED.

TITLE	SCHEMATIC-TAPE PUNCH	PART NO.	30246 D
-------	----------------------	----------	---------

QTY	PART NO.	DESCRIPTION
1	3K9-001A	HANDLE-PLUG-IN PACKAGE
2	7BE-005F	PNVIL-PLUG-IN PWS TUBE
3	1BE099	BOARD ASSY-CATH FOL 3
4	6E82 A	SOCKET - 9 PIN TUBE
5	19CI-004B	RIVET - SEMI TUBULAR
6	1ACI-018B	EYELETS

ITEM NO.	QTY	NO.	PART NO.	DESCRIPTION	QTY	ITEM NO.	QTY	NO.	PART NO.	DESCRIPTION
7	R1	1	80C10-122B	RESISTOR - 1/2W 5 PCT	19	R13	1	80C10-794B	RESISTOR - 1/2W 5 PCT	
8	R2	1	80C10-122B		20	R14	1	80C10-794B		
9	R3	1	80C10-122B		21	R15	1	80C10-794B		
10	R4	1	80C10-122B	RESISTOR - 1/2W 5 PCT	22	R16	1	80C10-794B	RESISTOR - 1/2W 5 PCT	
11	R5	1	81A46 A	RESISTOR - 5W	23	R17	1	80C10-564B	RESISTOR - 1/2W 5 PCT	
12	R6	1	81A46 A		24	R18	1	80C10-564L		
13	R7	1	81A46 A		25	R19	1	80C10-564B		
14	R8	1	81A46 A		26	R20	1	80C10-564B	RESISTOR - 1/2W 5 PCT	
15	R9	1	81A46 A		27	R21	1	80C15-118B	RESISTOR - 2W 5 PCT	
16	R10	1	81A46 A		28	V1	2	13AV6 A	TUBE - 6AB7	
17	R11	1	81A46 A		29			8769-024C	WIRE-ELECT SOLID INSUL	
18	R12	1	81A46 A	RESISTOR - 5W	30			45 REQ	6659-016	TUBING - EXTRUDED

REVISIONS			
LTN	DESCRIPTION	DATE	APPROV
A	PRODUCTION RELEASE	7/17/54	DW
B	SEE ECO # 1301	7/24/54	DR

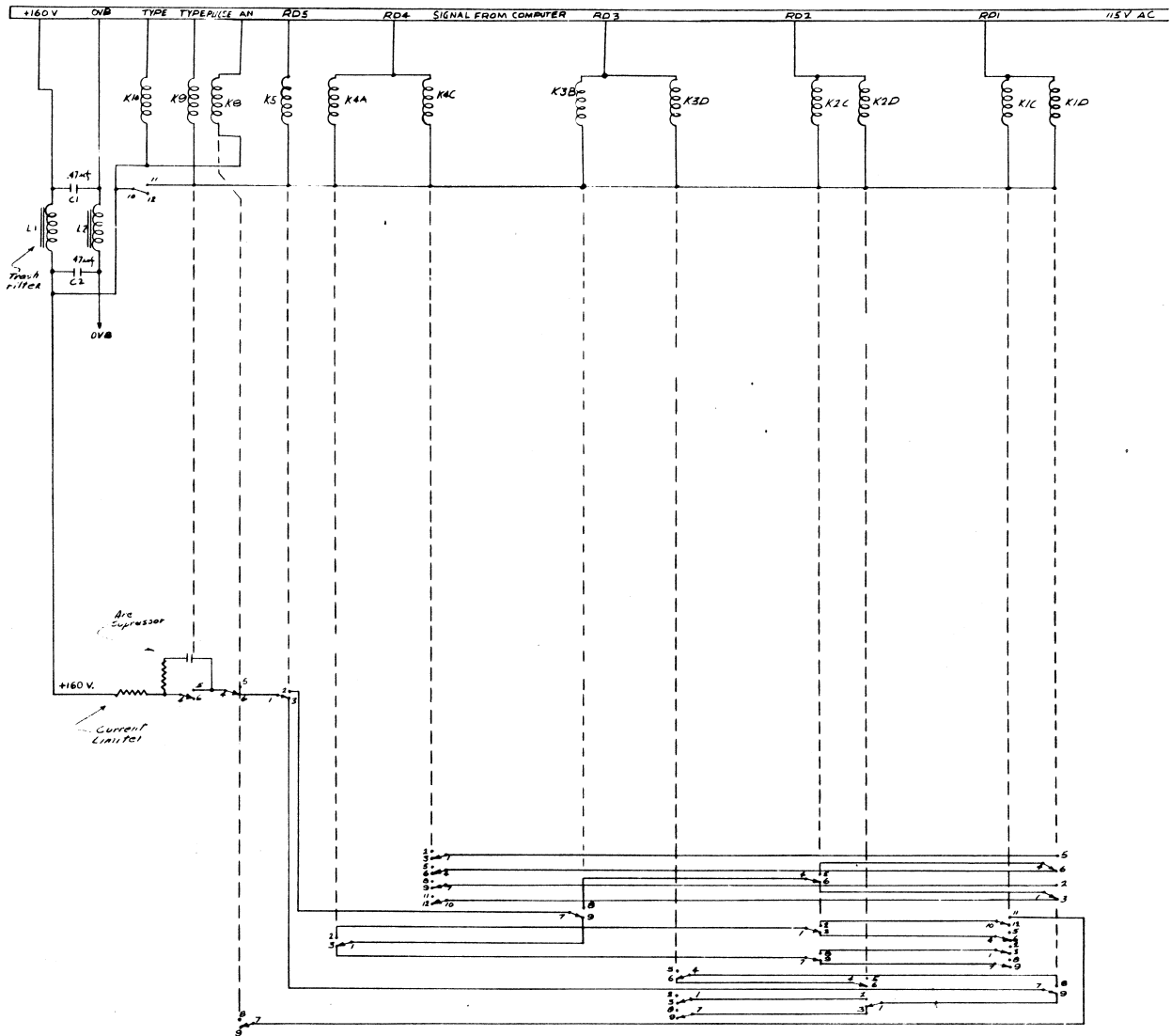


- 6.3V HT-1's @ .55V
V1 & V2
- 1. MARK WITH 1/8 HIGH BLACK LETTERS CENTERED AS SHOWN.
 - 2. DIP SOLDER SHOWN SIDE WITHIN DIM. NOTED BEFORE COMPONENT INSTALLATION.
 - 3. [Symbol] INDICATES PIN LETTER ON CONNECTOR.
 - 4. DIP SOLDER SHOWN SIDE WITHIN DIM. NOTED AFTER COMPONENT INSTALLATION.
- NOTES:

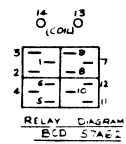
TITLE	PART NO.	QTY
FINAL ASSY-CATH FOL 3	1C2100	1

TERMINAL	EXIT POINT		TB	PL2A
	AN	YEX		
U	KK-12		3E	32
V	KA-9		2B	14
W	K4C-11		4V	42
X	K4C-8		4U	18
Y	K4C-5		4K	34
Z	K4C-2		4C	20
1	KK-8		2	25
2	KK-3		3H	43
3	KK-2		2Y	41
4	K4C-12		3F	30
5	K4C-9		3L	37
6	K4C-6		2J	35
7	K4C-3		2	33
8	KIC-6		2T	31
9	KIC-5		1	29
0	KIC-9		2J	31
0	KID-6		2C	27
0	KID-2		3A	4
0	KIC-8		3D	2
TAB	KID-5		2K	47
SP	KIC-9		2E	46
CR	KIC-2		4X	45

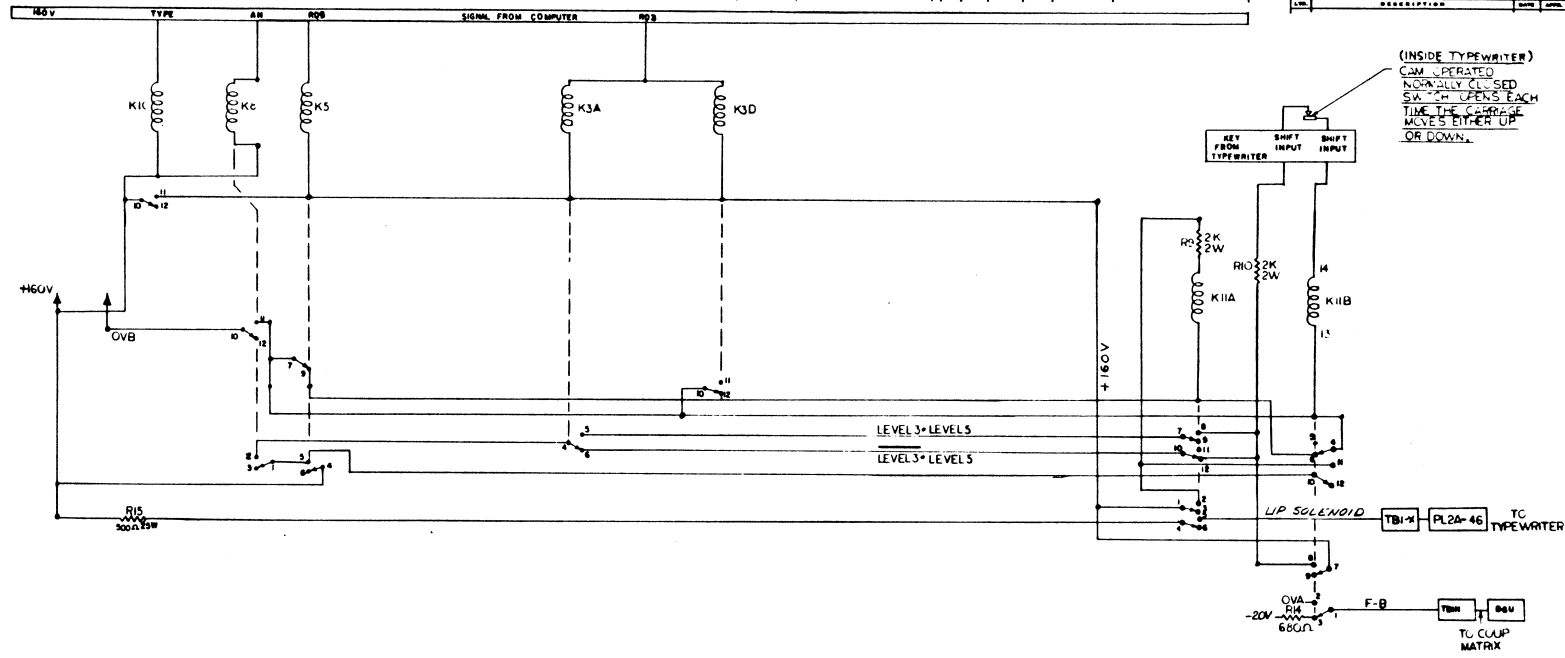
5 EQUAL	TB	PL2A
0/10	2Z	51
0/10	1Z	54
0/8	1F	69



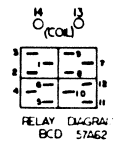
5D795



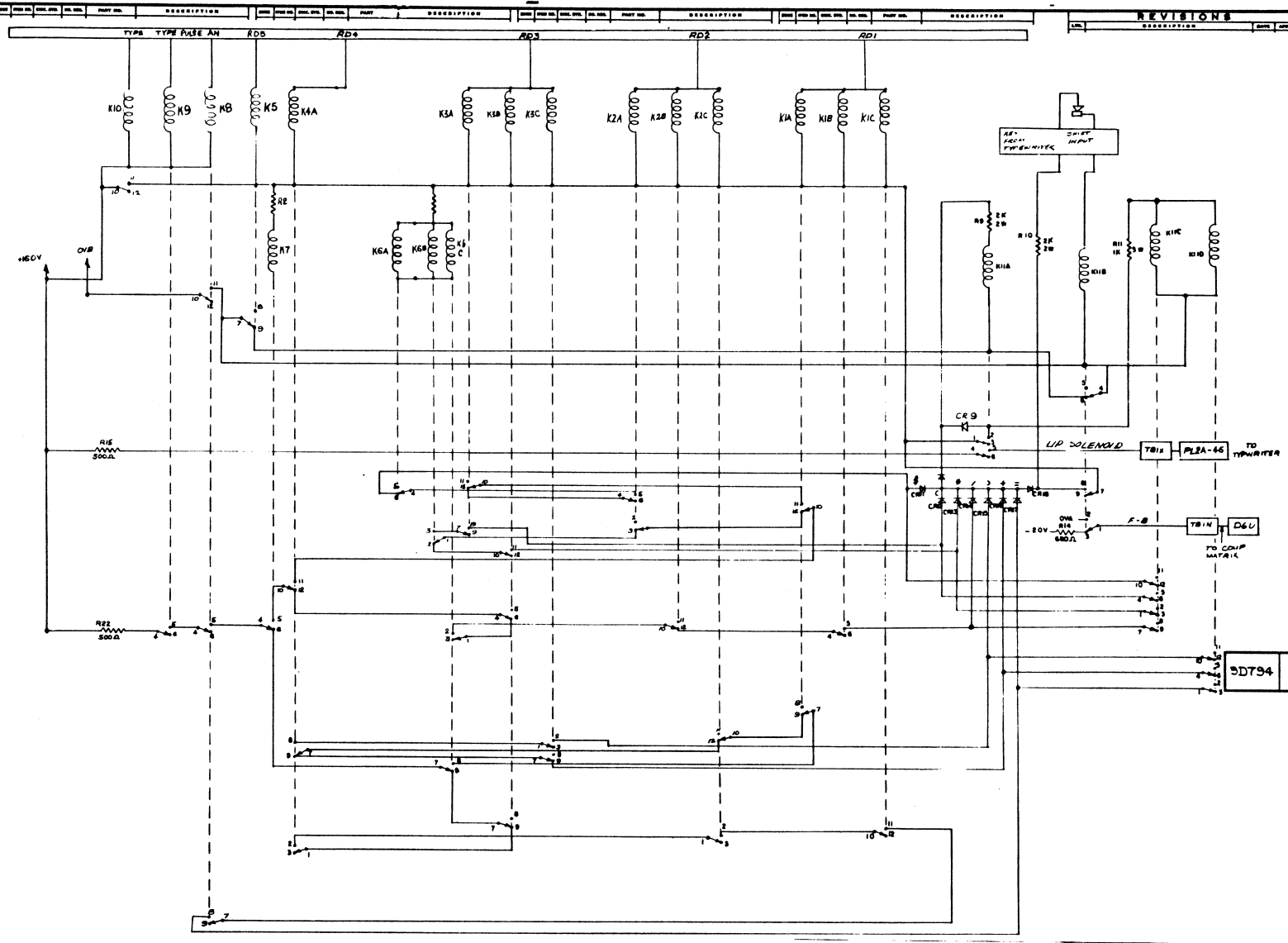
PART NO.		DESCRIPTION		PART NO.		DESCRIPTION		PART NO.		DESCRIPTION		REVISIONS	



3D797



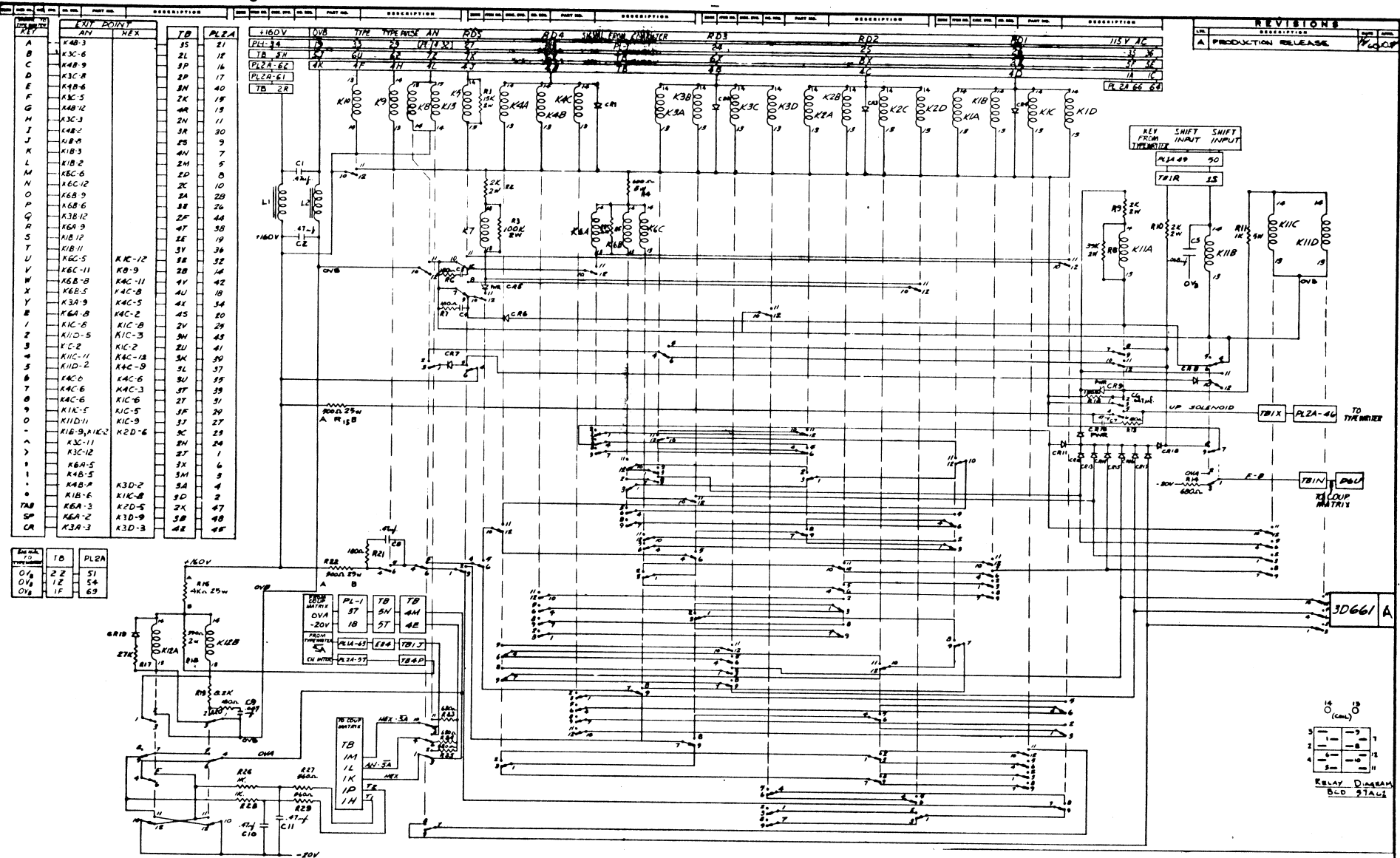
TITLE	PART NO.
NORMAL SHIFT ANG-1	3D797



REVISIONS	
NO.	DESCRIPTION

SPECIAL CHARACTERS	
SIGNAL TO TYPEWRITER	EXIT POINT
+	K10-5
#	K11-11
=	K12-2
(K13-5
)	K14-11
#	K15-2
	K16-8

TITLE	SPECIAL CHARACTERS	PART NO.	REV.
	AKC-1	3D794	



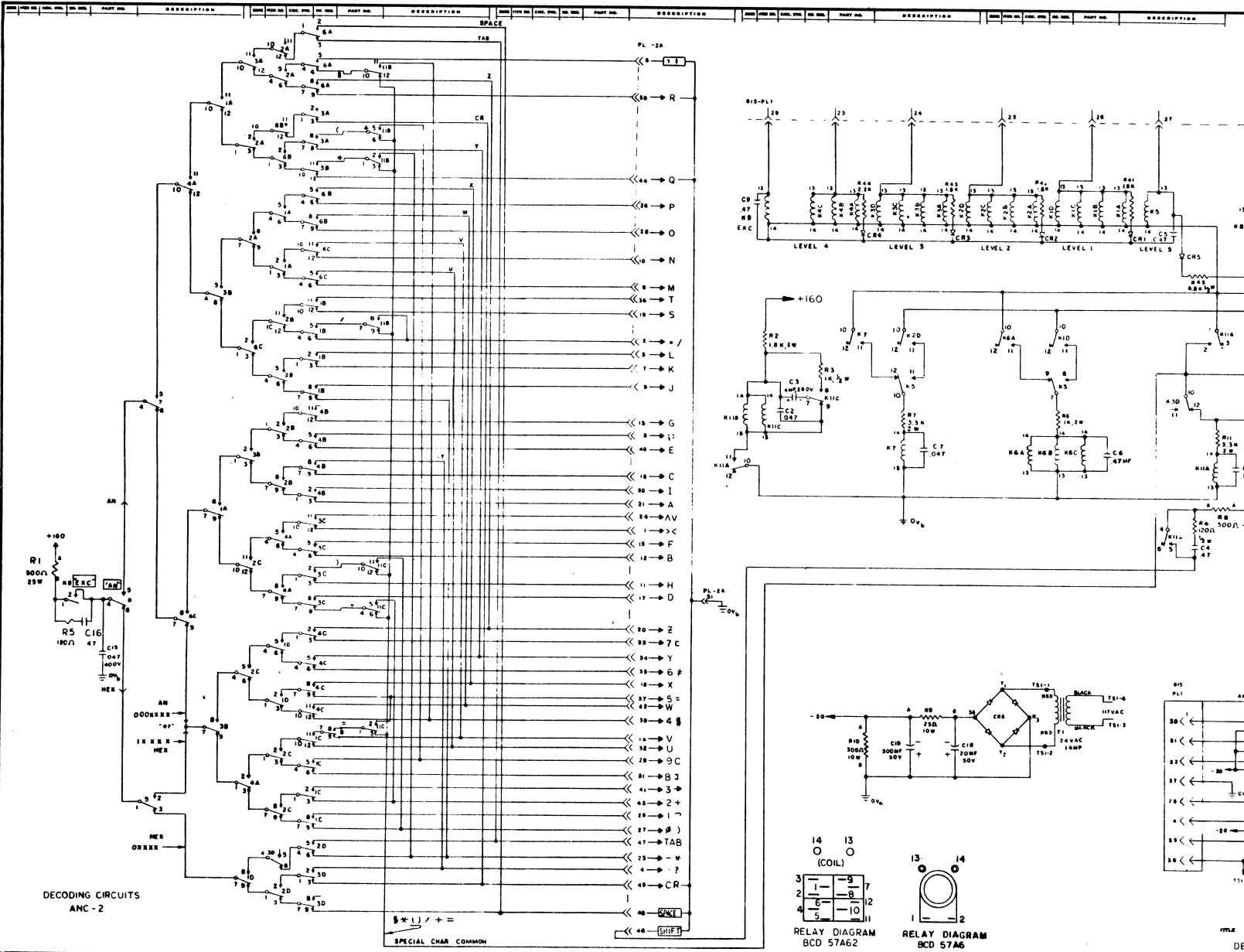
RELAY	POINT	RELAY	RELAY	RELAY
A	K4B-3	25	21	
B	K3C-6	2L	18	
C	K4B-9	3P	16	
D	K3C-8	2P	17	
E	K4B-6	2N	40	
F	K3C-5	2K	19	
G	K4B-12	4A	15	
H	K3C-3	2A	11	
I	K4B-2	3A	30	
J	K4B-4	4B	7	
K	K1B-3	2M	5	
L	K1B-2	2M	5	
M	K3C-6	2D	8	
N	K6C-12	2C	10	
O	K6B-9	2A	28	
P	K6B-6	2B	26	
Q	K3B-12	2F	44	
R	K6A-9	4E	38	
S	K1B-12	2E	19	
T	K1B-11	3V	36	
U	K3C-5	2B	32	
V	K6C-11	2B	14	
W	K6B-8	K4C-11	42	
X	K6B-5	F4C-8	4U	18
Y	K3A-9	K4C-5	4X	34
Z	K6A-8	K4C-2	45	20
1	K1C-8	K1C-8	2V	26
2	K11D-5	K1C-3	3W	43
3	K1C-2	K1C-2	2U	41
4	K11C-11	K4C-12	3K	39
5	K11D-2	K4C-9	3L	37
6	K4C-6	K4C-6	3U	35
7	K4C-6	K4C-3	3T	39
8	K4C-6	K1C-6	3F	35
9	K1C-5	K1C-5	3F	35
0	K11D-11	K1C-9	3J	27
-	K11B-9, K1K-2	K2D-6	2C	25
^	K3C-11		2N	24
>	K3C-12		2T	1
!	K6A-5		3X	6
!	K4B-5		3M	3
!	K4B-4	K3D-2	3A	4
!	K1B-6	K1C-8	3D	2
!	K6A-3	K2D-5	2X	47
!	K6A-2	K3D-9	3B	48
!	K3A-3	K3D-3	4E	46

RELAY	TD	PLZA
O ₆	2Z	51
O ₈	1Z	54
O ₉	1F	69

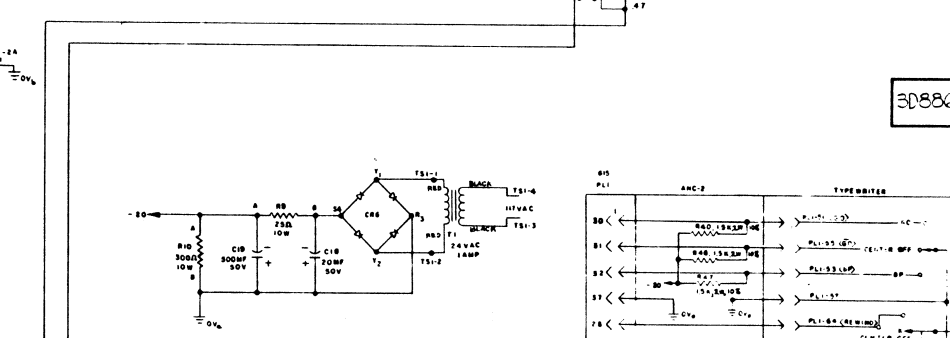
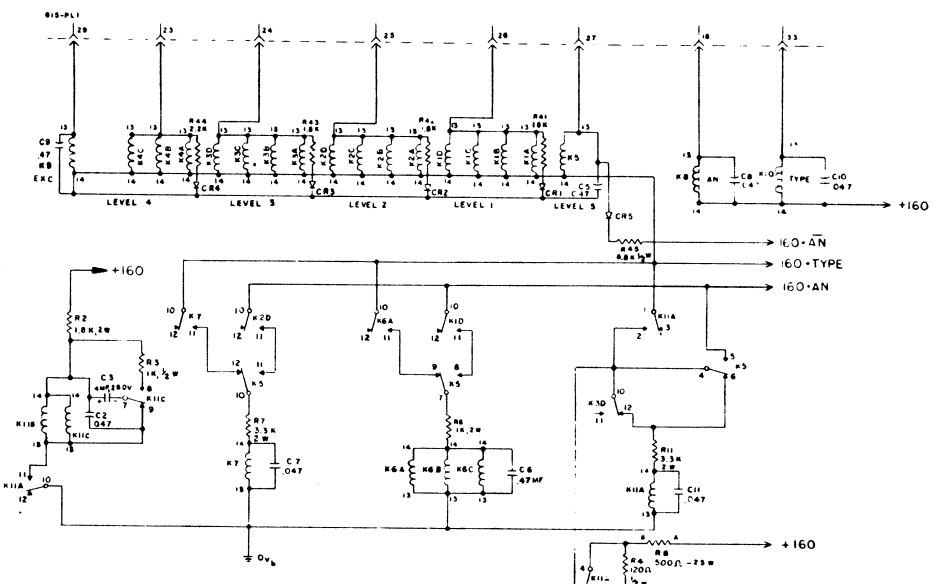
REV	DESCRIPTION	DATE	BY
A	PRODUCTION RELEASE		CC/CP

ALL RESISTORS 1/2 W UNLESS NOTED.
NOTES:

3D661 A
SCHEMATIC - DECODER AN COUP
PART NO. 3D661
REV. A

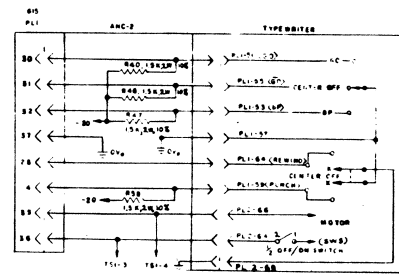
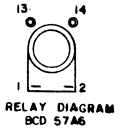
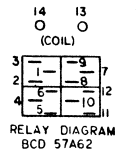


REVISIONS			
REV.	DESCRIPTION	DATE	BY
A	PRODUCTION RELEASE	7/1/57	DF
B	SEE ECO # 120	7/1/57	DF



DECODING CIRCUITS
ANC-2

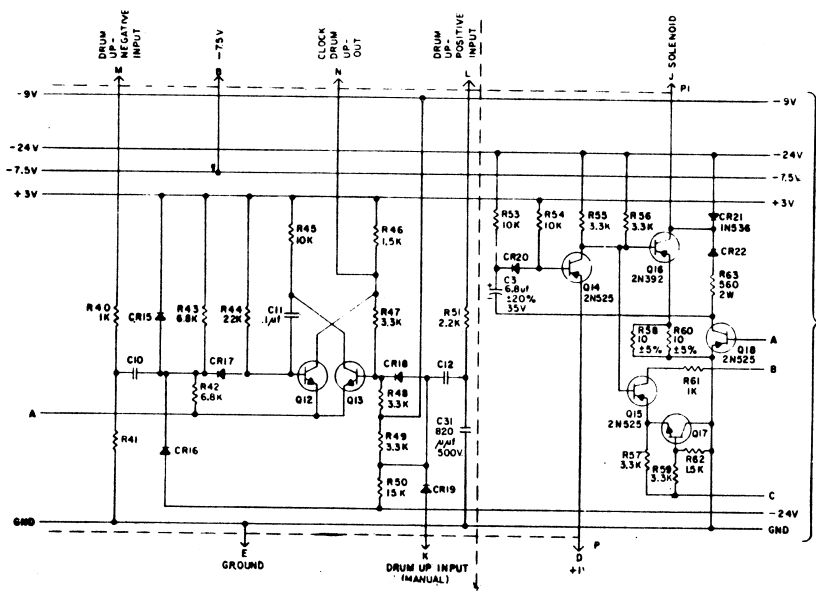
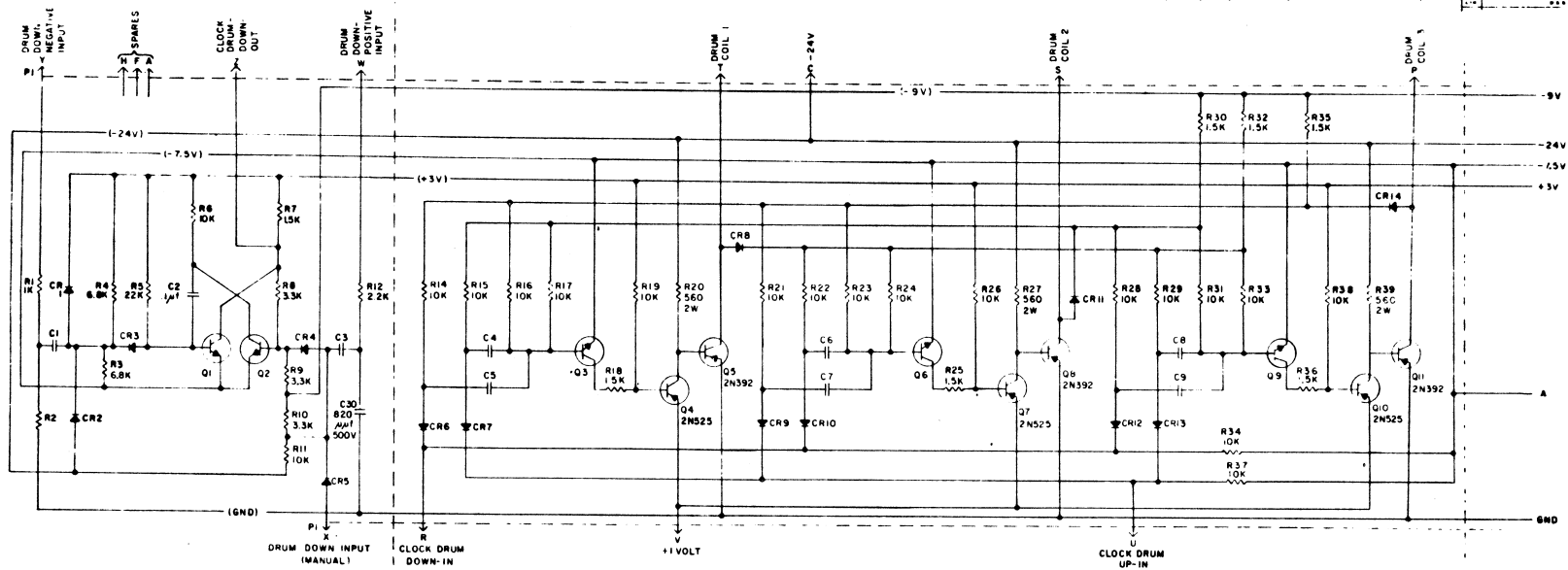
* () / + =
SPECIAL CHAR COMMON



DECODER, ANC-2

30886 B

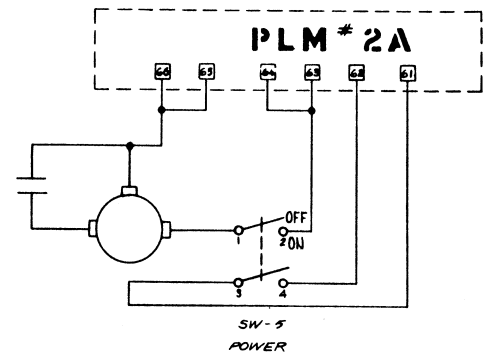
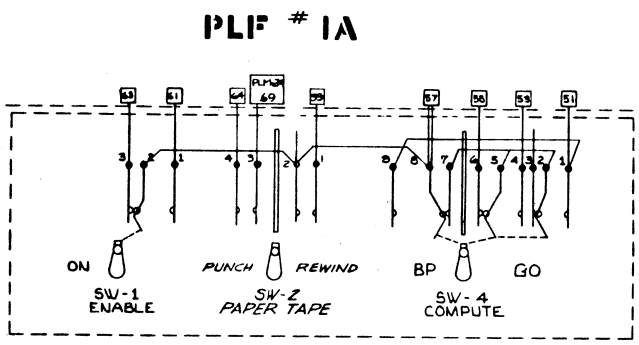
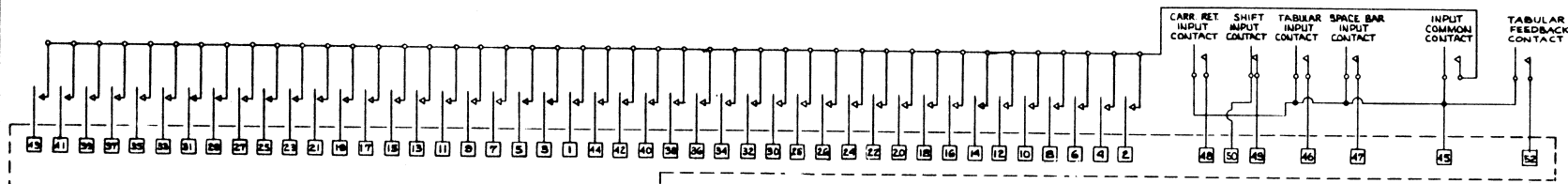
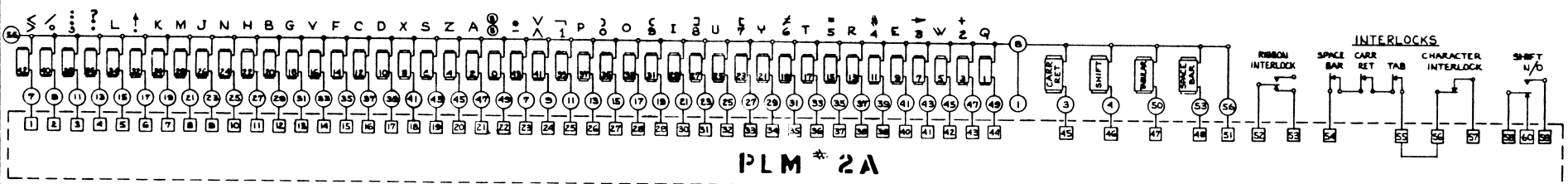
PART NO.
30886



TO SHEET 1

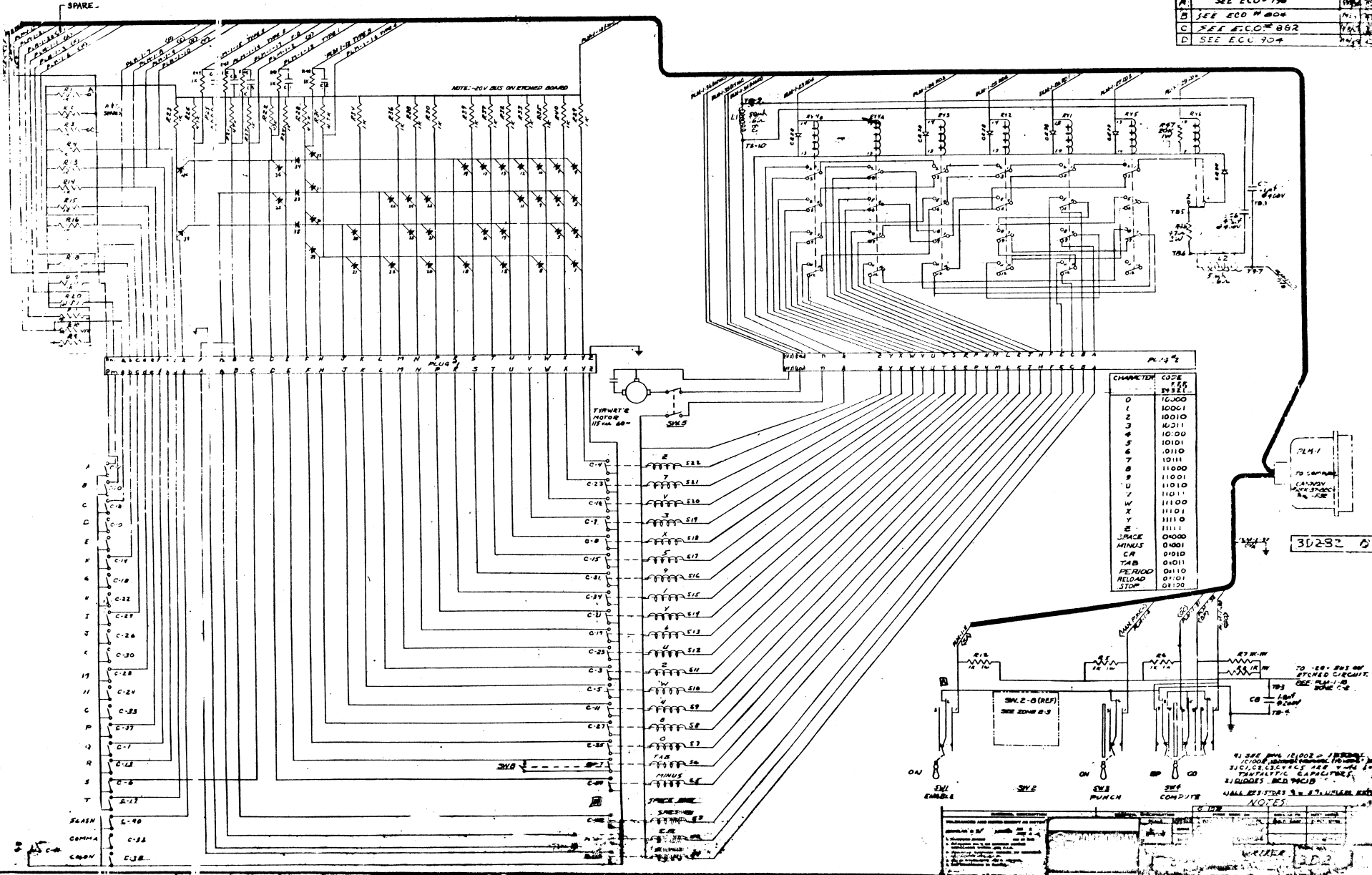
- NOTE:
1. UNLESS OTHERWISE SPECIFIED ALL RESISTOR VALUES ARE IN OHMS $\pm 10\%$ 1/2 WATT.
 2. ALL TRANSISTORS ARE 2N377.
 3. ALL DIODES ARE LD-171 OR CTP-803.
 4. ALL CAPACITORS ARE 0.001 $\pm 10\%$ AND ARE RATED 200 VOLTS.

REVISIONS	
REV.	DESCRIPTION
A	PRODUCTION RELEASE
B	SEE ECO #1025
C	SEE ECO #1087
D	SEE ECO #1116



30640 D

REVISIONS	
A	SEE ECO 758
B	SEE ECO N 804
C	SEE ECO 882
D	SEE ECO 904

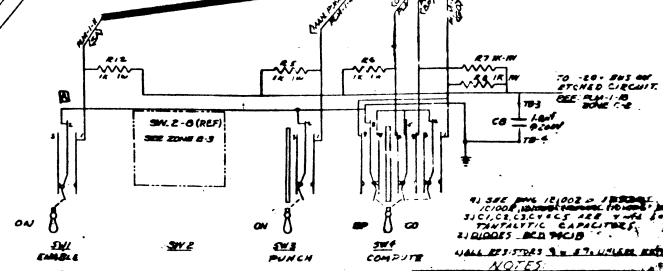


NOTE: 20V BUS ON ETCHED BOARD

CHARACTER	CODE
0	1000
1	1001
2	1010
3	1011
4	1100
5	1101
6	1110
7	1111
8	0000
9	0001
10	0010
11	0011
12	0100
13	0101
14	0110
15	0111
16	1000
17	1001
18	1010
19	1011
20	1100
21	1101
22	1110
23	1111
SPACE	0000
MINUS	0001
CR	0100
TAB	0101
PERIOD	0110
RECORD	0111
STOP	0100

TO COMMON
CANNON
TYPE 1500
15-02

30282 0



TO 20V BUS ON ETCHED BOARD
SEE DRAW G-3

1. SEE DRAW 15000 & 15001
FOR CONNECTIONS TO
SIC/CLC/SIC/SEE V-1
TRANSISTOR CIRCUITS
& RIDGES AND PADS

ALL RESISTORS & CAPACITORS
UNLESS NOTED OTHERWISE

NOTES

NO.	DESCRIPTION	DATE	BY

