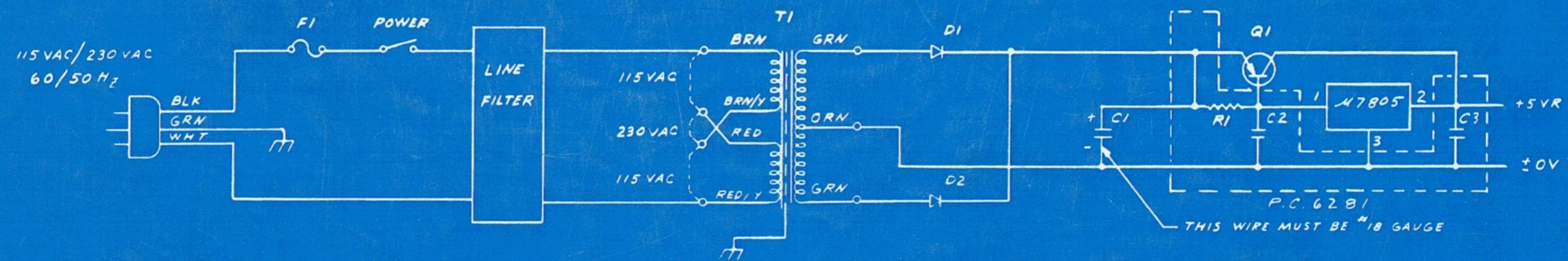


# PRODUCT SERVICE

# SCHEMATIC MANUAL



REFERENCE INFORMATION ONLY

NOT CONTROLLED



LABORATORIES, INC.

ONE INDUSTRIAL AVENUE, LOWELL, MASSACHUSETTS 01851, TEL. (617) 851-4111, TWX 710 342-6769, TELEX 94-7421

Printed in U.S.A.

03-0019  
**SCHEMATIC MANUAL**

May, 1977

**SCHEMATIC MANUAL REPRINT**

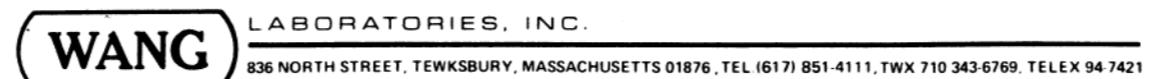
# **PRODUCT SERVICE**

# **SCHEMATIC MANUAL**

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The original quantity of schematic manuals was exhausted, necessitating a reprint. Because of the bulk of the original manual and the limited use of the first several sections, this reprint only contains the following sections: Model 1200/1222; 2200; PERIPHERALS; and DIABLO SERIES 40 DISK DRIVE. This reprinted manual contains all updates and revisions included in the first three schematic manual addenda.

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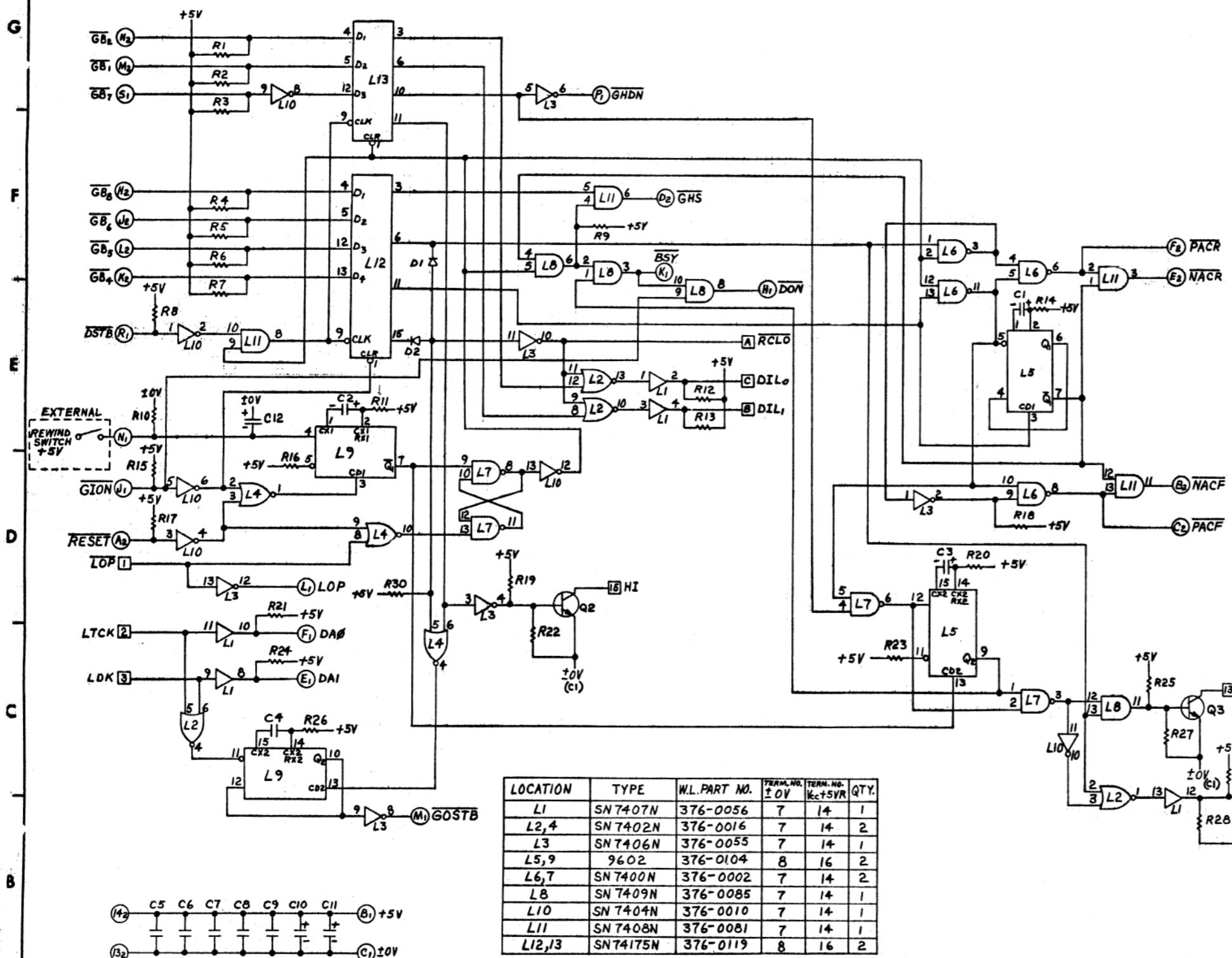


MODEL 2200 SYSTEM

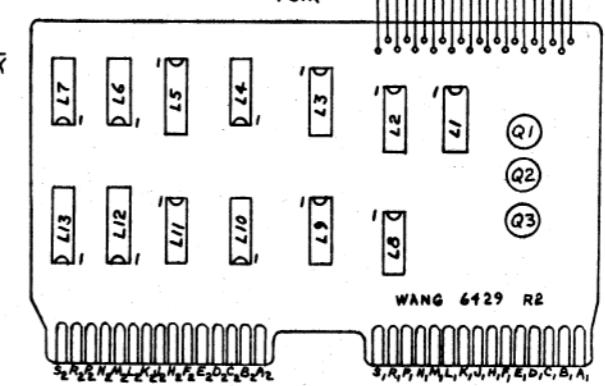
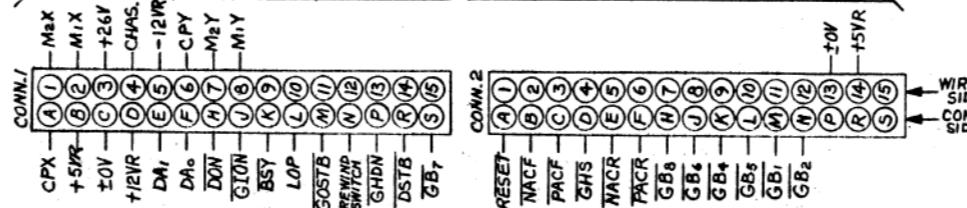
The following schematics are contained in this section in the following manner:

TITLE	DRAWING #	NO. OF SHEETS	TITLE	DRAWING #	NO. OF SHEETS
L558 TD MOTOR CONTROL	6429-1	2	6528 DUAL LANG. KBD. CONTR.	E6528-1	1
L559 TD AC CONTROL	C6430-1	1	6529 DUAL LANG. CRT. CONTR.	E6529-1	1
L567 REGULATOR	D6439	1	6533 2252 CONTROLLER	E6533-1	1
6222 2219 MOTHERBOARD	E6222	1	6534 2234/44 CONTROLLER	E6534-1	1
6225 2234A/44A CONTROLLER	E6225	1	6541 DISK CONTROLLER	E6541-1	1
6303 2215 KBD (MICRO SW.)	C6303-1	1	6541-1 ALL DISK CONTROLLER	D6541-1	1
6307 RAM	E6307-1	1	6543 2224 CONTROLLER	D6543-1	1
6308 MEMORY CONTROL (PROMS)	E6308-1	1	6547 C1E SUPER PATCH	E6547-14	1
6308-1 MEMORY CONTROL	E6308-2	1	6547 A1/A1E SUPER PATCH	E6547-10	1
6309 IC & PC REGISTERS	E6309-1	1	6547 B4/B4E SUPER PATCH	E6547-11	1
6310 ALU	E6310-1	1	6547 B5K SUPER PATCH	E6547-12	1
6311 I/O CONTROL	E6311-1	1	6548 NULL MODEM	B6548-1	1
6312 60 Hz CRT CONTROL	E6312-1	1	6560 2200S MOTHERBOARD	E6560	1
6312A 60 Hz CRT CONTROL	E6312A-1	1	6561 2201/02/12/32 CONTROLLER	D6561	1
6313 CRT CONTROL	E6313-1	1	6561-1 2201/02/12/32 CONTROLLER	D6561-1	1
6316 2217 CONTROLLER	C6316-1	1	6562 CASSETTE & KBD CONTROLLER	E6562	1
6317 2215/22 CONTROLLER (PROM)	E6317-1	1	6592 2252A CONTROLLER	E6592	1
6322 MOTHERBOARD	E6322-1	1	6707 2200S RAM	E6707-1	1
6324 2217/18 MOTHERBOARD	D6324-1	1	6708 2200S MEMORY CONTROL	E6708	1
6325 20-BIT ROM	6325-1	2	6709 IC & PC REGISTERS	E6709	1
6330 2222 KBD. (OAK)	C6330-1	1	6710 ALU	E6710	1
6348 2215 KBD. (OAK)	C6348-1	1	6713 PROG. CRT CONTROLLER	E6713	1
6350 50 Hz CRT CONTROL	E6350-1	1	6717 2200 RAM	E6717	1
6350A 50 Hz CRT CONTROL	E6350A-1	1	6723 BI SYNC CONTROLLER	E6723	1
6361 8-BIT ROM	D6361-1	1	6724 BI SYNC XMIT/REC	E6724	1
6361 8-BIT ROM PATCH	E6361-1	1	6725 20-BIT ROM	E6725	1
6362 2227 CONTROLLER	E6362-10,12	1	6735 20-BIT ROM	E6735	1
6362-1 2207 CONTROLLER	E6362-11,13	1	6741 KBD/PRINT/TAPE CONTR.	E6741	1
6367 2215/22 CONTROLLER	E6367	1	6742 KBD/PRINT/DISK CONTR.	E6742	1
6368 2201/02/12/32 CONTR. (ROM)	D6368	1	6768 2200S 9 I/O MB	E6768	1
6374 2203 CONTROLLER	D6374-1	1	6771 KEYBOARD CLICKER	C6771	1
6375/			6785 2230 MXA CONTROLLER	E6785	1
6375-14 2214/30/40/42 CONTROLLER	D6375-1	1	6786 2230 MXB CONTROLLER	E6786	1
6379 2221/31/41/61 CONTROLLER	D6379-1	1	7024 BI SYNC XMIT/REC	E7024	1
6383 MINI ROM TESTER	C6383-1	1	7042 KBD/PRINT/DISK CONTR.	E7042	1
6388 2218 CONTROLLER	D6388-1	1	2200 PWR SUPPLY	D6422-999	1
6394 2250 CONTROLLER	D6394-1	1	2200S 3 OR 6 I/O PWR SUPPLY	D6627-999	1
6443 2220/2223 KEYBOARD	D6443	1	2200S 9 I/O PWR SUPPLY	D6800-999	1
6449 2234A/44A MEMORY BOARD	D6449	1	2200S (3,6) AND 9 I/O HEAT SINKS	C6800-998	1
6522 MOTHERBOARD	E6522-1	1	CPU POWER CABLE	C6627-998	
6527 A1/A1E SUPER PATCH	D6527-10	1	2200 TC CABLE	C6422-125	1
6527 B1 SUPER PATCH	D6527-11	1	2200 MOTOROLA P.C. (CRT)	C6482-5	1
6527 B2/B2E SUPER PATCH	D6527-12	1		63D6516A19	
6527 B3K SUPER PATCH	D6527-13	1			

COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY.
R1-6,12,13,15,17, 21,22,24,27, 26	1K 1/4W	330-3010	17
R9	2.2K 1/4W	330-3022	1
R10	470Ω	330-2047	1
R11	100K	330-5010	1
R14	56K	330-4056	1
R16,18,23,30	4.7K	330-3047	4
R19,25,29	390Ω	330-2039	3
R20,26	47K	330-4047	2
C1	5.6μF	300-4017	1
C2	15μF	300-4022	1
C3	1μF,35V,TANT	300-4000	1
C4	680PF	300-1680	1
C5-9	.01μF	300-1903	5
C10,11	15μF,20V,TANT	300-4022	2
Q1,2,3	2N3725	375-1027	3
TRANSIPAD	LARGE	375-9001	3
D1,2	GER.DIODE	380-0000	2



SIGNAL-TERMINAL DESIGNATIONS, VIEW FROM BOTTOM(WIRING) SIDE OF CONN.



COMPONENT LAYOUT

WANG PART NO. — 220-0104	WANG LABORATORIES INC. TEWKSBURY, MASS.
MODEL NO. 2200	DRAWN 6K 6-8-73 APPROVED 6-8-73
CHANGED BY APPD:	APPROVED BY APPD:
TITLE: SCHEMATIC LOGIBLOC #L558 MOTOR & PINCH CONTROL	
SHT 1 of 2	DOC. NO. 6429-1 REV. 4

6

5

4

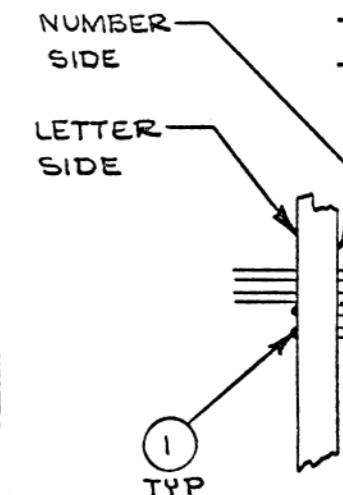
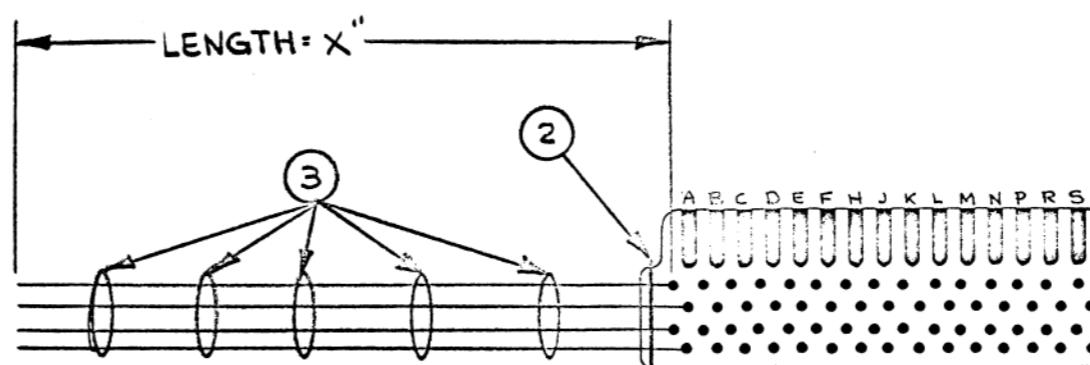
DO NOT SCALE

3

2

1

SIGNAL	SOLDER POINT	WIRE COLOR	CONN. PIN NO	WIRE X" LG.	W.L. PART N°	WIRE GAUGE
RCL <sub>o</sub>	A	WHT/BRN	A	14 1/4"	600-3091	# 26
DIL <sub>1</sub>	B	WHT/RED	B	14 1/4"	- 3092	26
DIL <sub>o</sub>	C	WHT/ORN	C	14"	- 3093	26
±OV	J	BLK	J	14 1/2"	- 2000	24
+5VR	K	RED	K	14 1/2"	- 2002	24
M <sub>1</sub> Y	L	YEL	L	13 1/2"	- 2004	24
M <sub>2</sub> Y	M	WHT/YEL	M	13 1/2"	- 2094	24
CPY	N	GRY/YEL	N	13 1/4"	- 2084	24
M <sub>1</sub> X	P	WHT/GRN	P	13"	- 3095	26
M <sub>2</sub> X	R	WHT/BLU	R	13"	- 3096	26
CPX	S	WHT/VIO	S	13"	- 3097	26
LOP	I	BRN	I	14 1/4"	- 3001	26
LTCK	2	PINK	2	14"	- 3022	26
LDK	3	ORN	3	14"	- 3003	26
±OV(c <sub>1</sub> )	8	WHT/BLK	8	14 1/2"	- 2090	24
+12VR	9	BLU	9	13 1/2"	- 2006	24
CHASSIS	10	GRN/YEL	10	13 1/4"	- 2054	24
-12VR	11	WHT	11	13 1/4"	- 2009	24
+26V	12	VIO	12	13"	- 2007	24
FSX	13	GRN	13	13 3/4"	- 3005	26
RSX	14	GRY/BLU	14	13 3/4"	- 3086	26
HI	15	VIO/GRY	15	13 3/4"	600-3078	# 26



B | 6429-1

510-5223C	4	1	P/C FINGER BOARD							
605-1004	3	5	CABLE TIE		PAN-TY					
605-1001	2		AR LACING, BLACK							
660-0202	1		AR SOLDER		GB-37 ALLOY					
WANG PART NO.		ITEM	QTY.	NAME	MATERIAL	DESCRIPTION				
REVISION	# 1 SHEET 1 OF 1 SEE LARRY T 9-19-73	Qty. Per Unit	FIRST USED ON	ASSY USED ON	BY	DATE	APPROVED BY	DATE		
		1			DWN LARRY T	9-19-73	E ENGR			
					CHK	9-25-73	M ENGR			
					E. C. CONTROL		MFG ENGR	10-17-73		
					TITLE					
					MOTOR & PINCH CONTROL CABLE					
NO	1				FINISH	TOL. EX. AS NOTED .XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1°30' FINISH ✓ <sup>128</sup>	220-0104	B   6429-1	4	
					SCALE 1:1	SHT 2 OF 2	WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.

WANG

LABORATORIES, INC.  
TEWKSBURY, MASS. U.S.A.

MODEL NO.  
2216/17, 2217  
SEE ENGRG SPECIFICATIONS  
No. ES-1001

TOL. EX. AS NOTED  
.XX ± .010 FRAC. ± 1/64  
.XXX ± .005 ANG. ± 1°30' FINISH ✓<sup>128</sup>

SCALE 1:1

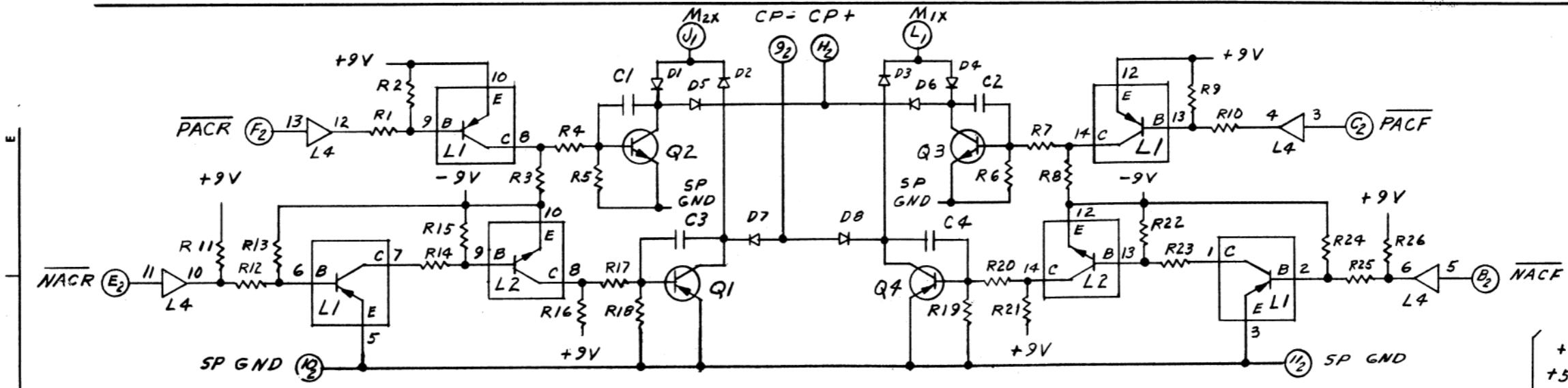
SHT 2 OF 2

WANG PART NUMBER

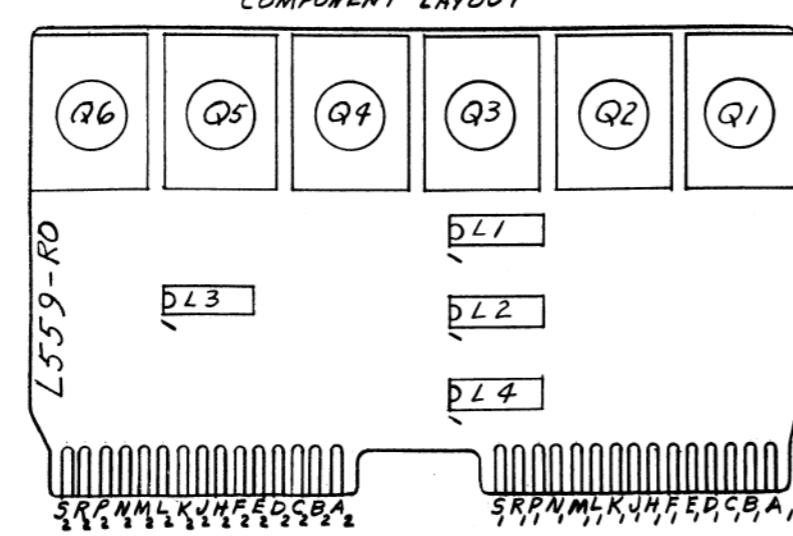
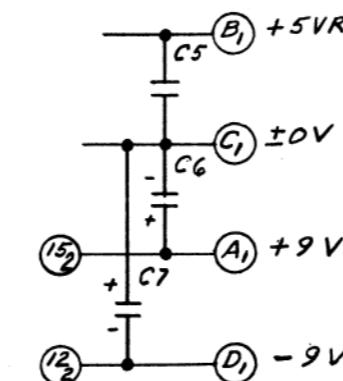
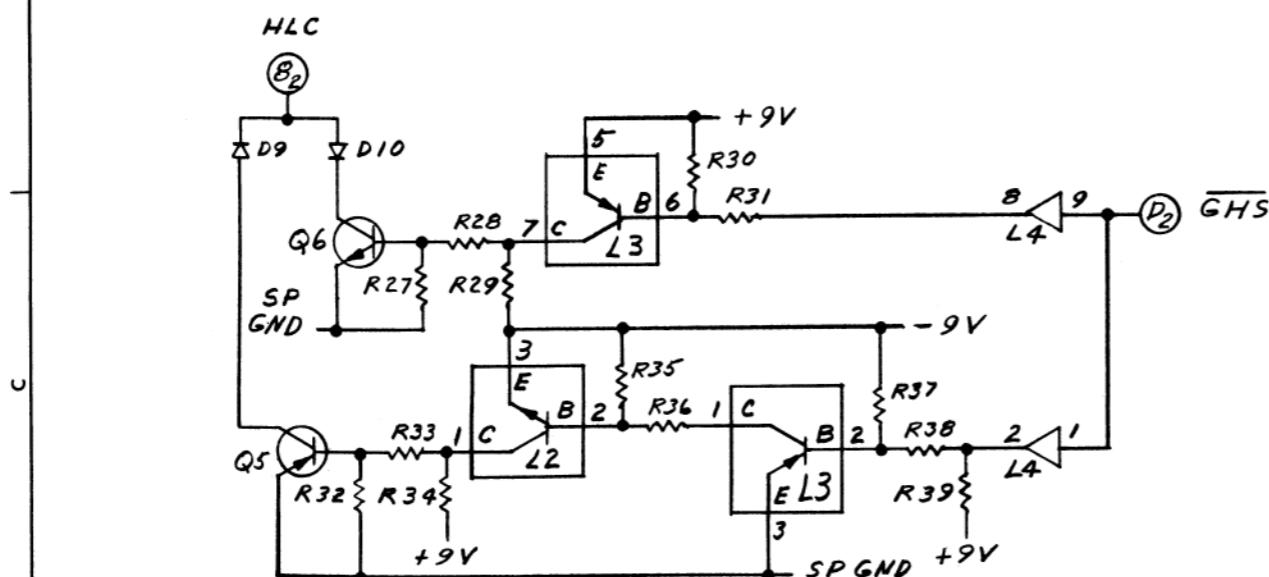
SIZE

DRAWING NUMBER

REV.

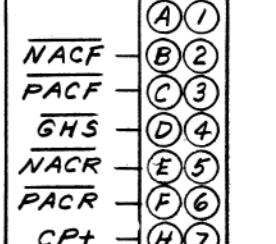
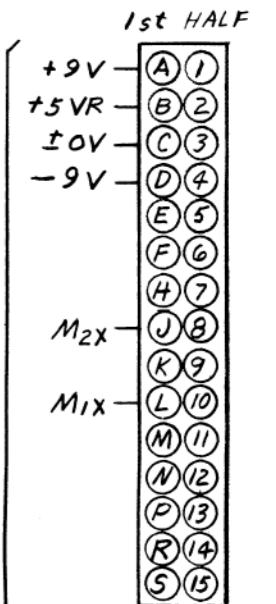


LOCATION	TYPE	W.L. PART NO.	TERM. NO. I/O V	TERM. NO. V <sub>CC</sub> +5VR	GTY
L1, 3	FPQ3468	376-0107	-	-	2
L2	FPQ3725	376-0106	-	-	1
L4	SN7407N	376-0056	7	14	1



COMPONENT	SIZE/TYP	W.L. PART NO.	GTY
R1, 10, 11, 14, 23, 26, 31, 36, 39	6.80Ω 1/4W	330-2068	9
R2, 5, 6, 9, 18, 19, 27, 30, 32	2.2K 1/4W	330-3022	9
R3, 8, 16, 21, 29, 34	4.7K 1/4W	330-3047	6
R4, 7, 17, 20, 28, 33	100Ω 2W	337-2010	6
R12, 25, 38	3.3K 1/4W	330-3033	3
R13, 29, 37	6.8K 1/4W	330-3068	3
R15, 22, 35	47K 1/4W	330-4047	3
C1, 2, 3, 4	.1μF MYLAL	300-2210	4
C5	.01μF CER	300-1903	1
C6, 7	15μF 20V TANT	300-4022	2
D1, 2, 3, 4, 5, 6, 7, 8, 9, 10	EM403	380-4000	10
Q1, 4, 5	2N5954	375-1032	3
Q2, 3, 6	2N40250	375-1028	3

SIGNAL-TERMINAL DESIGNATIONS, VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR



COMP. SIDE WIRING SIDE

TOL. EX. AS NOTED .XX ±0.010 FRAC. ±1/ .XXX ±.005 ANG. ±	
MODEL NO. DRAWN 2B 2-21-73 APP. 2/21/73	
MATERIAL CHECKED APP.	
TITLE SCHEMATIC LOGIBLOC L 559	
AC MOTOR CONTROL	
W.O. NO. DWG. NO. C 6430-1 REV. C	

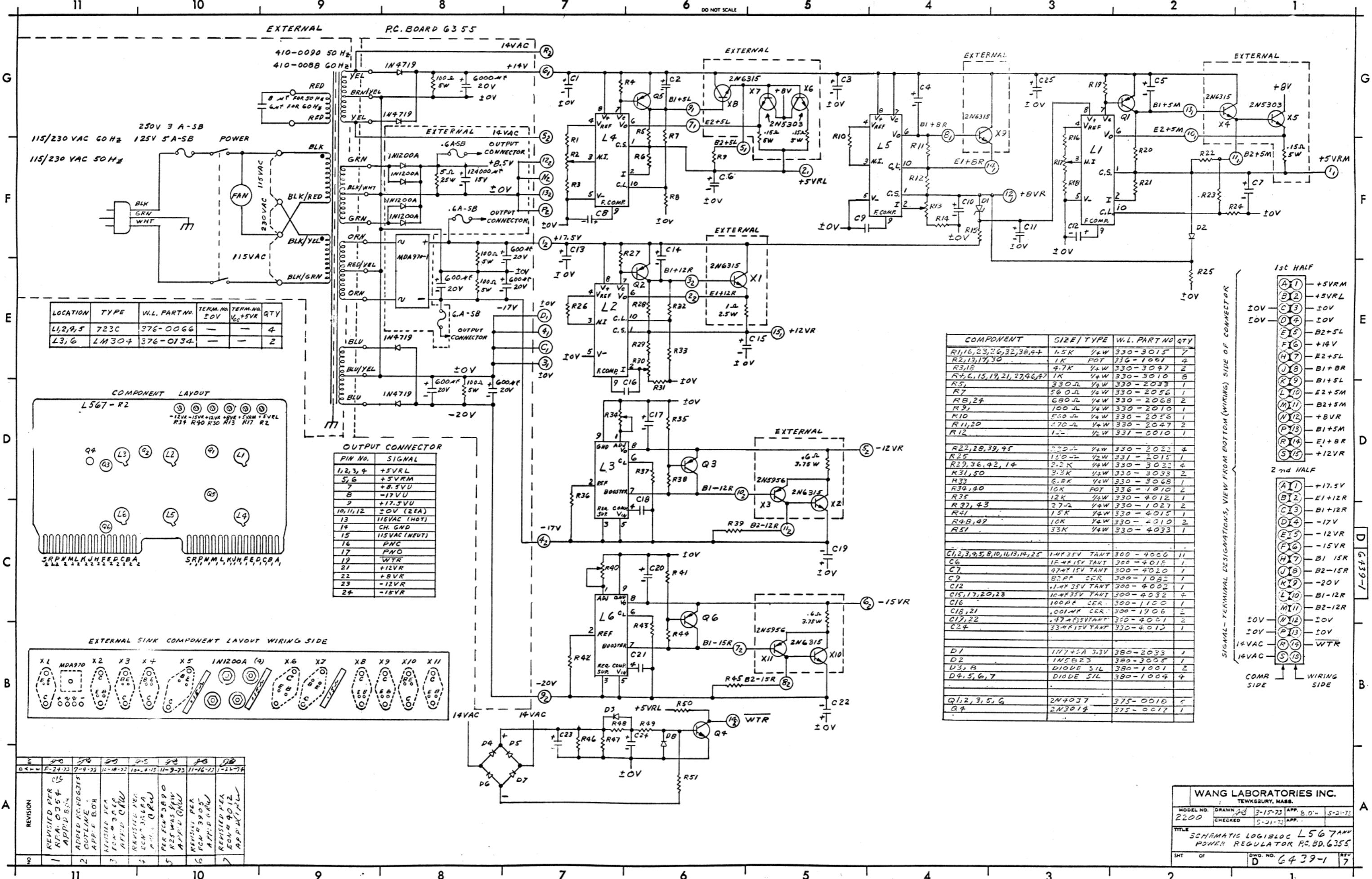
WANG LABORATORIES INC.  
TEWKSBURY, MASS.

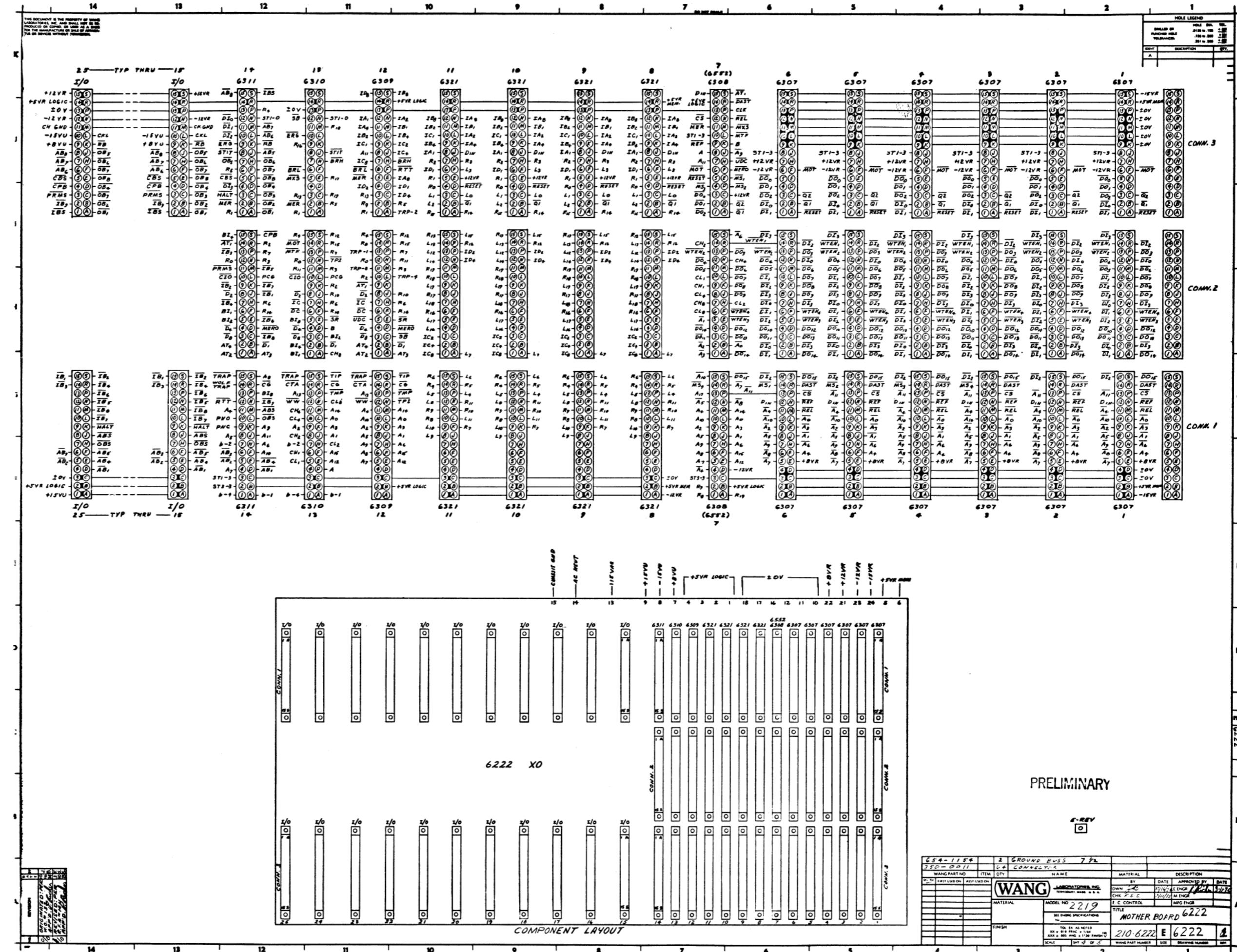
2200CASSETTE (TD 24)

SCHEMATIC LOGIBLOC L 559

AC MOTOR CONTROL

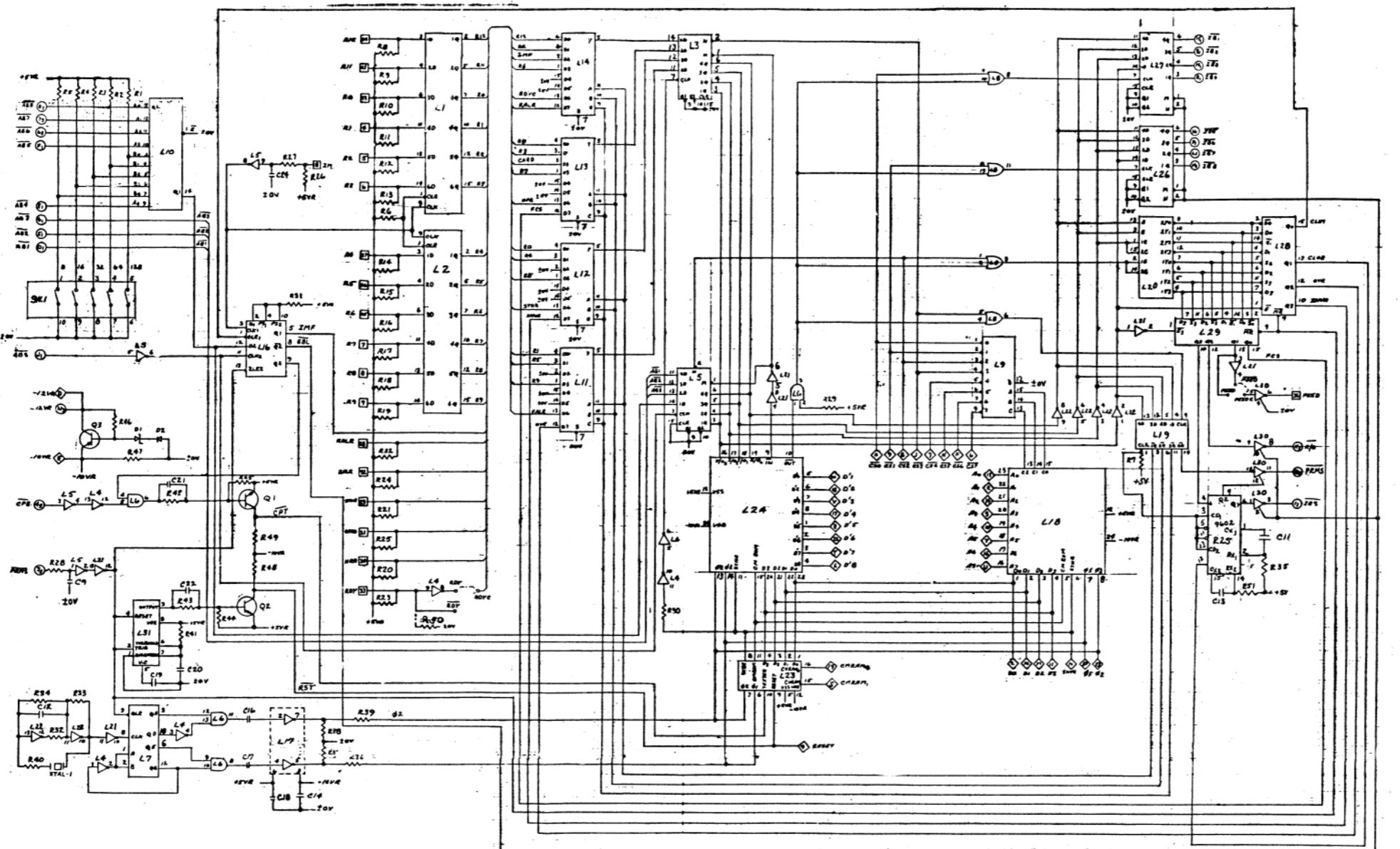
W.O. NO. DWG. NO. C 6430-1 REV. C



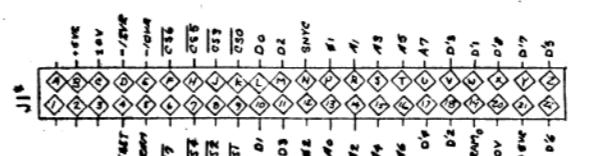
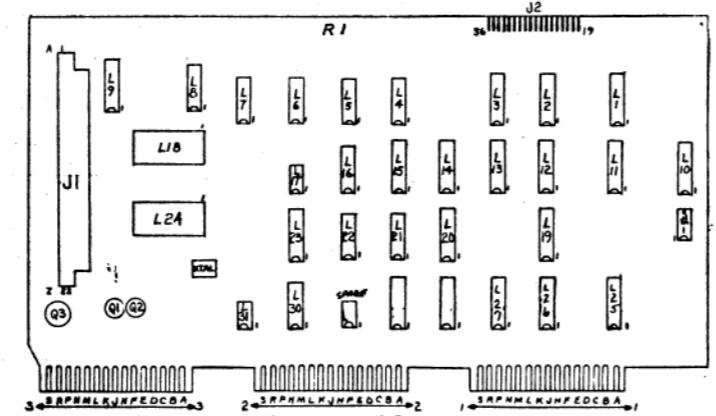


COMPONENT	N.L. NO.	TYPE
R1-7,9,31	330-4010	1K, 1W
R2-26	330-2039	390Ω, 1W
R7,28	330-2015	50Ω, 1W
R46,45	330-2027	27ΩΩ, 1W
R32,40	330-2022	22ΩΩ, 1W
R39,42,43	330-3010	1K, 1W
R 36,39	330-2013	12ΩΩ, 1W
R 37,38	330-3021	2.2K, 1W
R34	330-2018	16ΩΩ, 1W
R33	330-3018	1.8K, 1W
R46	330-1047	47K, 1W
R51	330-4047	47K, 1W
R35,51	330-4022	22K, 1W
R30	330-3068	6.8K, 1W
R48,49	331-2047	67ΩΩ, 1W
R50	330-3010	1K 1W
O1	300-2100	IN758A
X7AL-1	321-0008	10MHz
C1,2	300-4022	1.5μF
C3-10/5.9E245	300-1930	0.1μF
C10,14,20	300-1930	1μF / 50V
C16,17,11/13	300-1820	820PF
C18,21,22	300-1047	47PF
L1/8,24	376-9003	24.7H, 1.5Ω
J1	350-0022	14 PIN CONN.
O2	380-1001	
Q1,2	375-1011	67544
Q3	315-0018	EN4657
Q1,2	375-9004	TRANSIPAD
HEAT SINK	375-9010	
Q3	375-9001	TRANSIPAD

**+ OPTIONAL**



LOCATION	TYPE	N.L. NO.	IVN	PSV
L1/2	74174	376-0098	8	16
L3,15,26,27	74173	376-0137	8	16
L4,21,22	74046	376-0010	7	14
L5	7414	376-0139	7	14
L6	7405	376-0061	7	14
L7	74168	376-0102	7	14
L9	7442	376-0008	8	16
L10	93124	376-0120	8	16
L11-14	7451	376-0047	8	16
L16	7494	376-0006	7	4
L17	770026	376-0114	-	6
L18	4008	377-0208	-	12
L19	74175	376-0119	8	16
L20	74155	376-0069	8	16
L23	4006	377-0206	-	5
L24	4009	377-0207	-	12
L8	7432	376-0093	7	14
L29,28	9314	376-0108	8	16
L31	NC555	376-0126	1	8
L30	8709	376-0078	7	14
SW 1	SWITCH	375-1801 375-3645	-	-
L25	9602	376-0104	8	16



\*~~SEARCHING FOR EARTHQUAKE METEOROLOGISTS~~

HOLE LEGEND		
	HOLE	DIA.
D OR	8135	125
D HOLE	.124	250
HOLES	231	500
DESCRIPTION	QTY	

**CONN-1**

A	f
B	2
C	1
D	3
E	4
F	5
G	6
H	7
I	8
J	9
K	10
L	11
M	12
N	13
O	14
P	15
Q	16
R	17
S	18
T	19
U	20
V	21
W	22
X	23
Y	24
Z	25

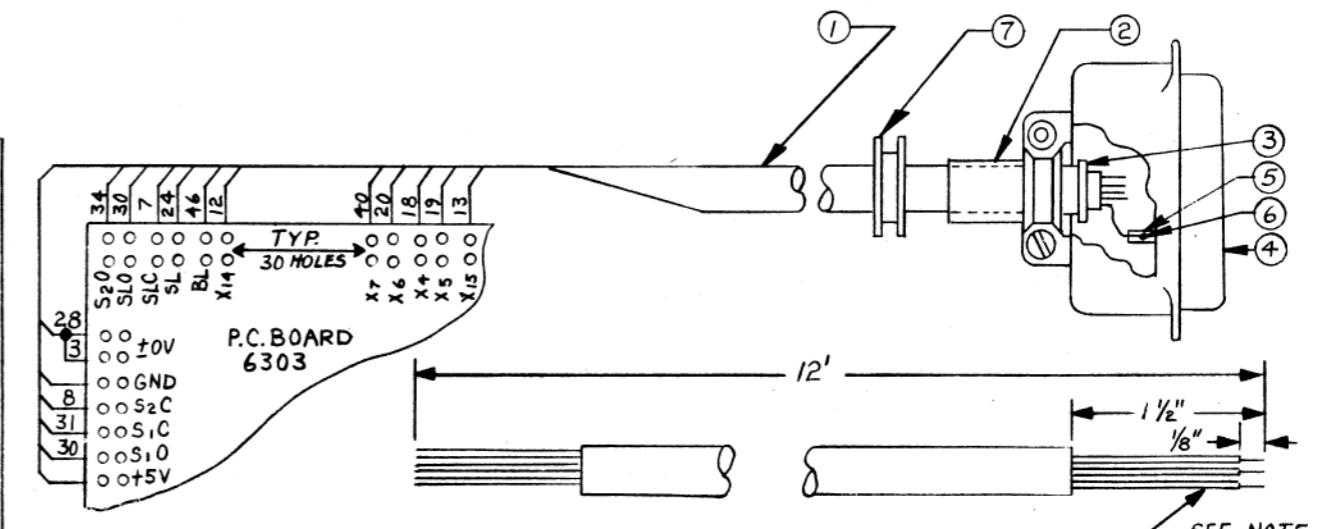
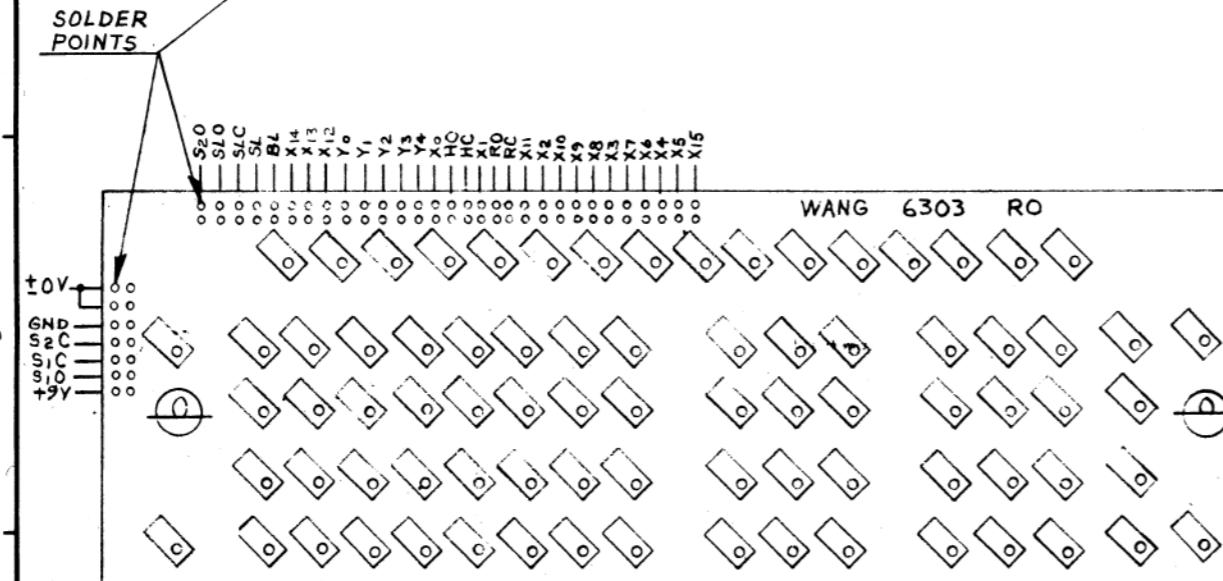
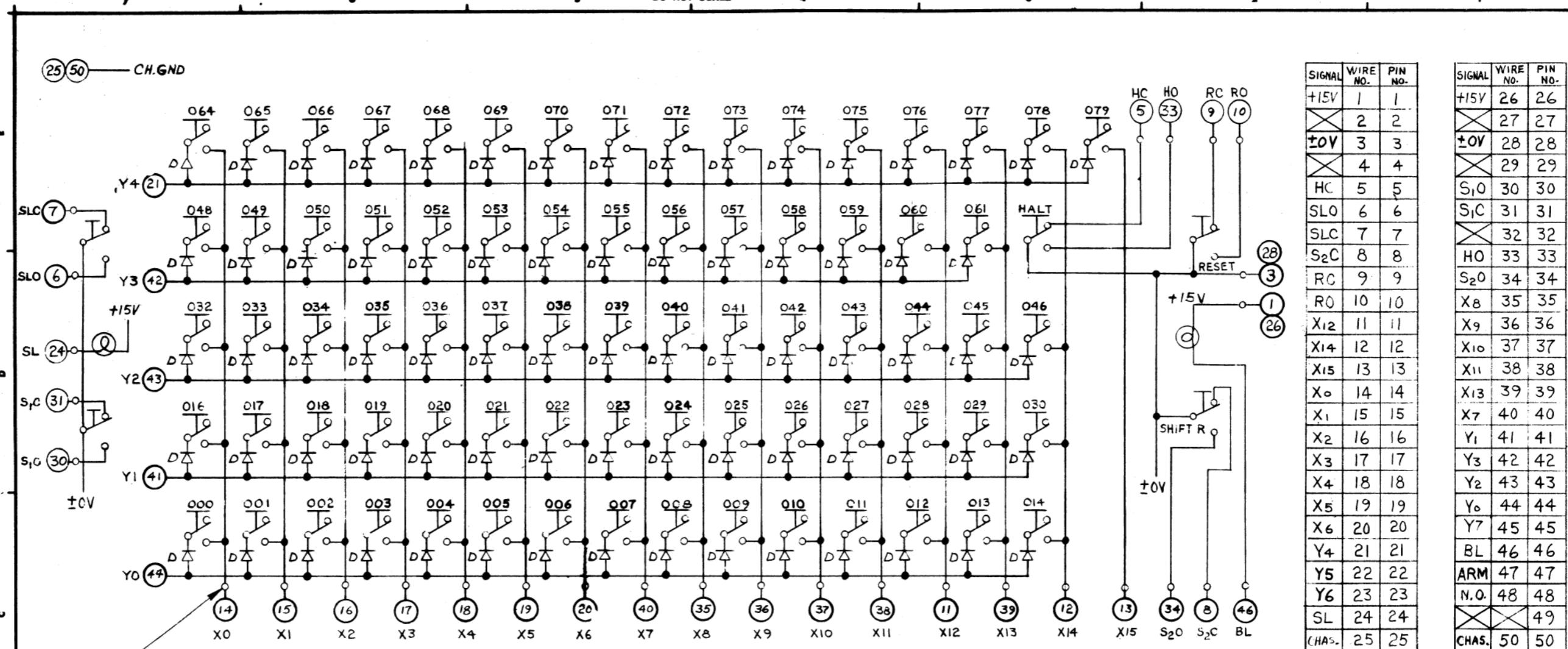
Cann-Z	
A	1
B	2
C	3
D	4
E	5
F	6
G	7
H	8
I	9
J	10
K	11
L	12
M	13
N	14
P	15
R	16
S	17

④	①	I83
⑧	②	Z89
③	③	PRMS
⑤	④	CPR
⑥	⑤	-
⑦	⑥	A84
⑨	⑦	A87
⑩	⑧	A88
⑪	⑨	
⑫	⑩	
⑬	⑪	
⑭	⑫	
⑮	⑬	zov
⑯	⑭	+sv

CONN4	
1	R1
2	R2
3	R3
4	R7
5	R8
6	R9
7	ZOV
8	ZOV
9	ZOV
10	ZOV
11	ZOV
12	ZOV
13	ZOV
14	ZOV
15	ZOV
16	ZOV
17	ZOV
18	ZM

E.R.V.  
O

A	QTY	NAME	MATERIAL	DESCRIPTION
		<b>WANG</b> LABORATORIES, INC. TEMPLE, TEXAS U.S.A.	BY DRAFTS CNC D.	DATE 10/25/04 ENGR. 1/4 SILVER
			APPROVED BY MFG ENGR	DATE 10/25/04
	MATERIAL	MODEL NO 222-A F 2244A SEE ENGINEER SPECIFICATIONS No	E.C. CONTROL	
			TITLE SCHEMATIC LOGIC BLOC FOR TEZS CONTROL BOARD	
	FINISH	TOL. EN. AS NOTED X# 815 FRAC 7/16A X# 915 ANG 21/30 FINISH V	210-6225	E 6225 1
		No. 4 or 5	WANG PART NUMBER	LIVE DRAWING NUMBER

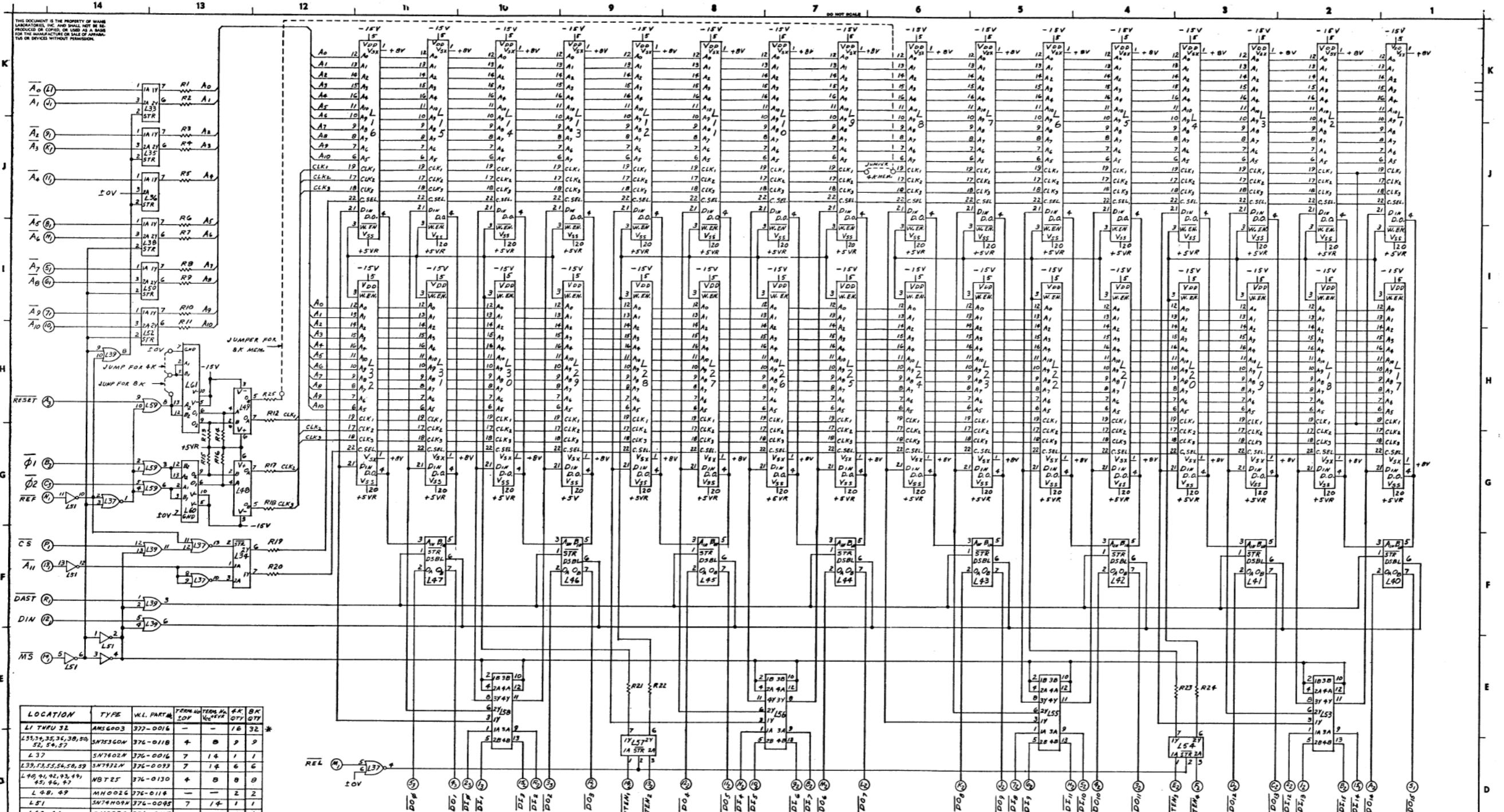


NOTE: 1-STRIP BACK 1/4" &amp; TIN 1/8".

REVISION	ITEM	QTY.	NAME	MATERIAL
1	380-1001	75	SIL. DIODE	
2	325-2300	75	MICRO SWITCH	
3	325-2305	5	MICRO SWITCH	
4	370-0002	2	LAMP	
5	654-1205	7	1 GROMMET	
6	605-0002	5	49 SLEEVE	
7	350-2027	4	1 CONNECTOR	
8	654-1208	3	1 STRAIN RELIEF	
9	605-4103	2	1 BUSHING	
10	420-0005	1	12' CABLE	

WANG PART NO.	ITEM	QTY.	NAME	MATERIAL	DESCRIPTION
380-1001	75	SIL. DIODE			
325-2300	75	MICRO SWITCH			
325-2305	5	MICRO SWITCH			
370-0002	2	LAMP			
654-1205	7	1 GROMMET			
605-0002	5	49 SLEEVE			
350-2027	4	1 CONNECTOR			
654-1208	3	1 STRAIN RELIEF			
605-4103	2	1 BUSHING			
420-0005	1	12' CABLE			

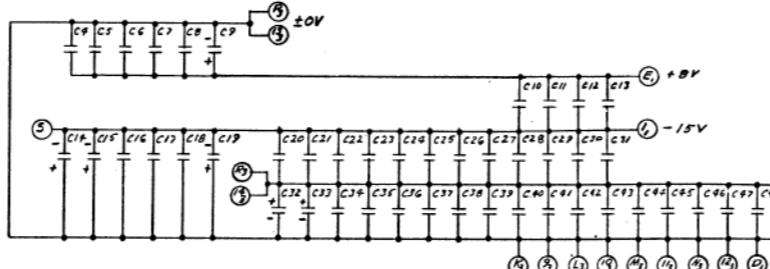
IDENT	QTY	NAME	MATERIAL	DESCRIPTION
DR 6K				DATE 2-15-73
CHK				DATE
APPD				DATE 6-5-73
WANG LABORATORIES, INC.				
TEWKSBURY, MASS. U. S. A.				
MODEL No. 2200		W.O. No.		SCALE
TITLE SCHEMATIC LOGIBLOC 2200 KEYBOARD #6303				Sheet OF
O	C			6303-1
REV	SIZE			DRAWING NUMBER



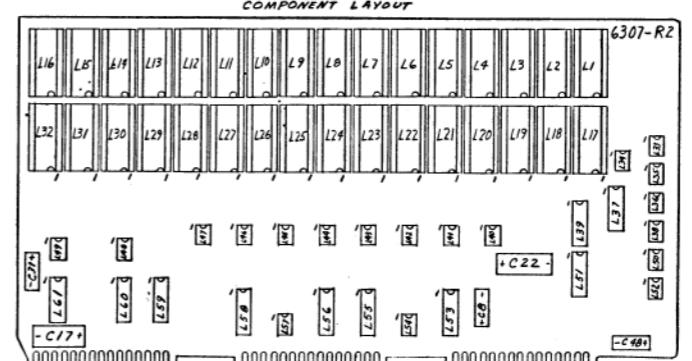
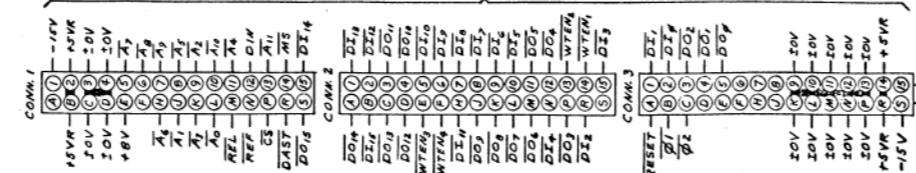
LOCATION	TYPE	WL. PART#	TERM NO	TERM NO	4K	8K
					GTT	GTT
L1 THRU 32	AN6003	377-0016	-	-	16	32
L33-L35, L36, L38, L39, L40, L41, L42, L43, L44, L45, L46, L47, L48, L49, L50, L51, L52, L53, L54, L55, L56, L57, L58, L59, L60, L61	SN74S00N	376-0116	4	9	2	9
L37	SN74LS02N	376-0016	7	14	1	1
L39, L43, L54, L56, L59	SN74S22N	376-0093	7	14	6	6
L49, L51, L52, L53, L54, L55, L56, L57, L58, L59, L60, L61	NBT25	376-0130	4	8	8	8
L48, L49	MH0026	376-0116	-	-	2	2
L51	SN74H094	376-0048	7	14	1	1
L60, L61	DH0034	376-0115	-	-	1	1

COMPONENT	SIZE/TYPE	WL. PART#	QTY	QTY	4K	8K
R1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 18, 19, 20	10.55% W/W	330-1011	14	15	* * *	*
R12	15.5% W/W	330-1016	1	1		
R13, 14, 15, 16	1K 5% W/W	331-3011	3	4	* * *	*
R21, 22, 23, 24, 25	22.5% W/W	330-1023	5	5	* * * *	
C6, 5, G, 2, 8, 10, 11, 12, 13, 16, 17, 18, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 31, 33, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50	67-MT 20V TANT	300-4034	1	1		
C9, 19	50MFT 50VDC	300-3010	2	2		
C15, 23	+22.4% TANT	300-4006	2	2		
C32, 50	97-MT 15V TANT	300-4020	2	2		

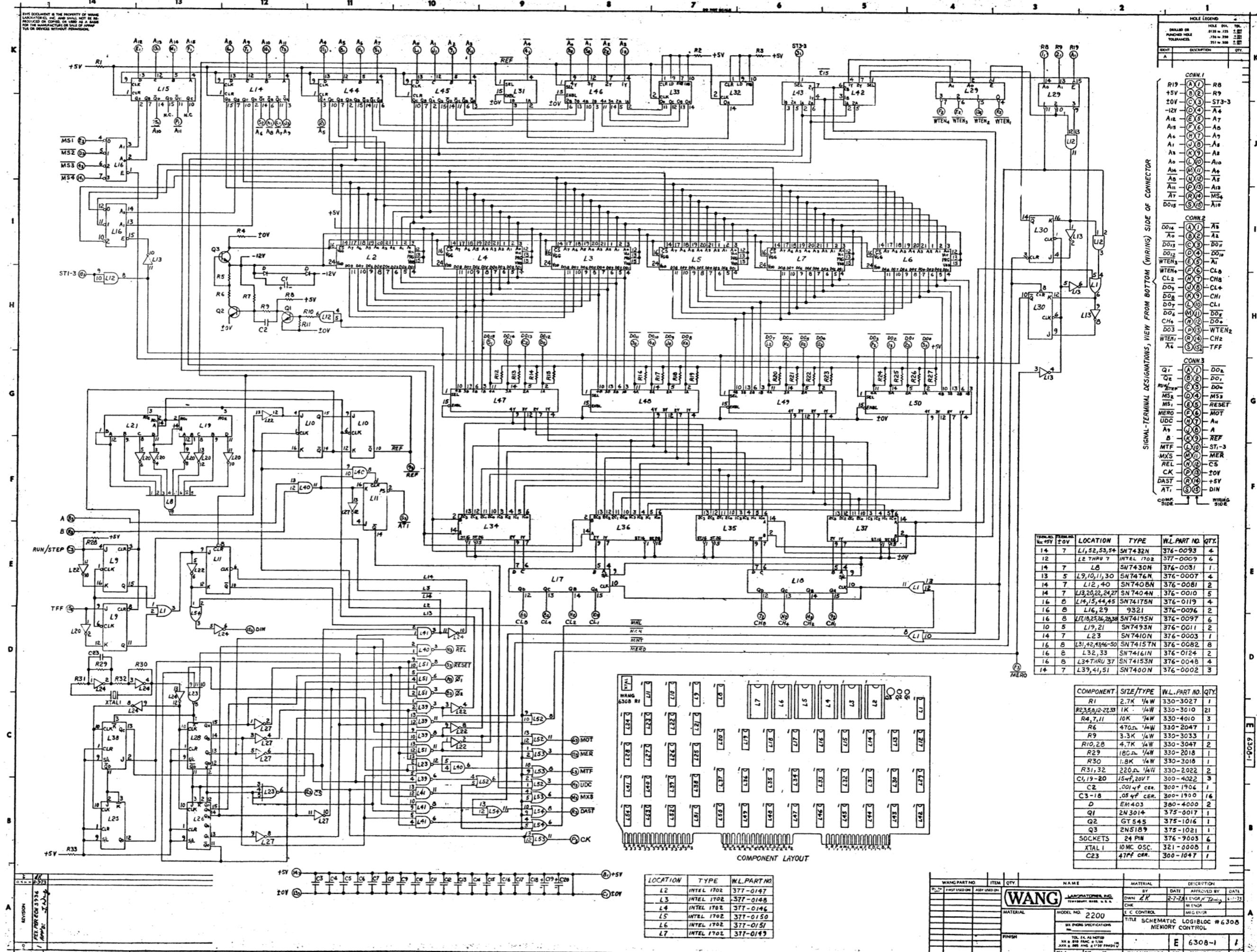
\* DELETE L17 THRU 32 ON 4K  
\*\* DELETE R20 ON 6K  
\*\*\* DELETE R14 ON 6K  
\*\*\*\* DELETE R55 ON 4K



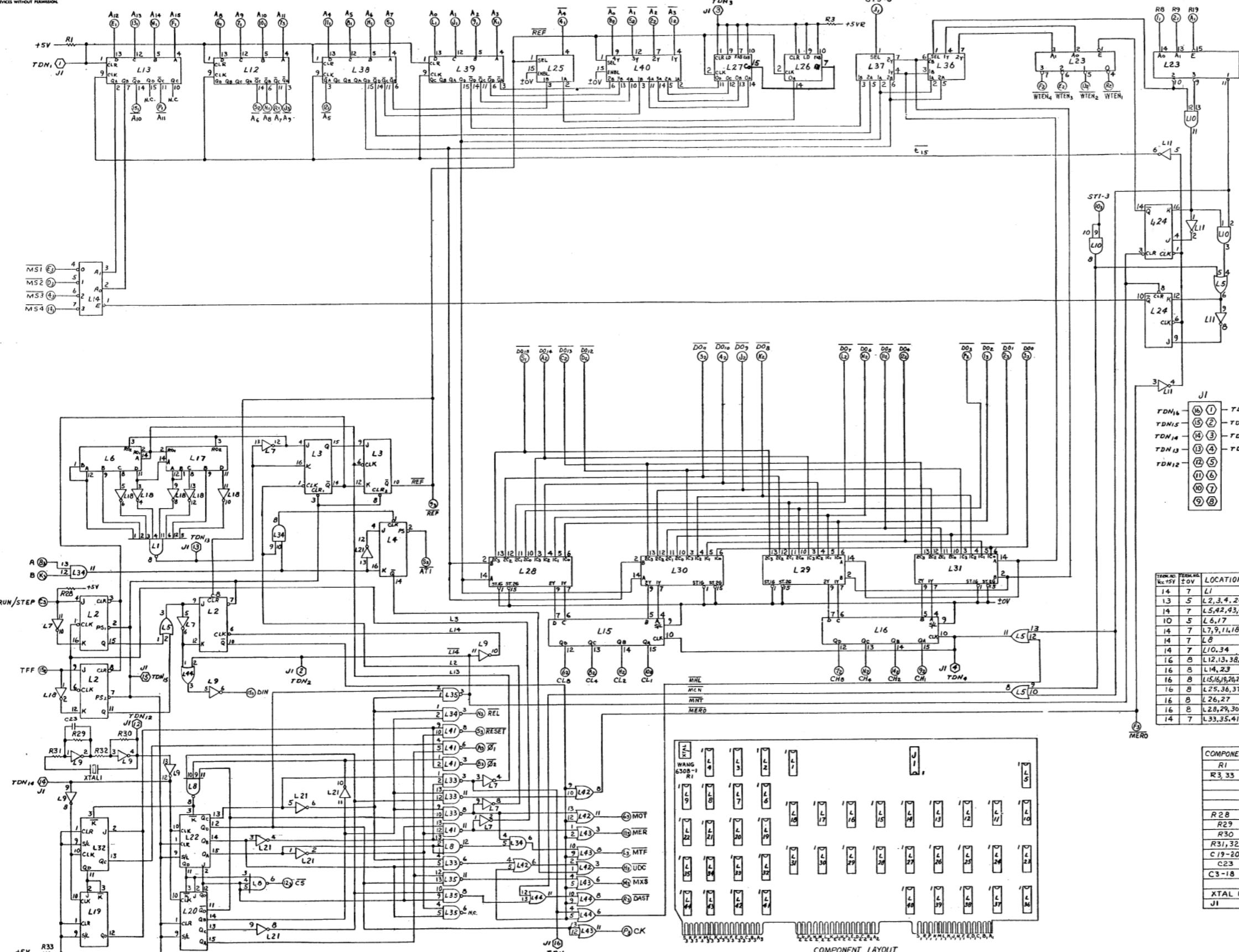
SIGNAL-TERMINAL DESIGNATIONS; VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR



WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
WANG	BY	DATE	APPROVED BY	DATE	
WANG	DATE	2-10-78	ENGR	1-1-78	5-1-78
WANG	CHK				
WANG	MFG				
WANG	MODEL NO	2200			
WANG	SEE ENGR SPECIFICATIONS				
WANG	TOL. EX AS NOTED				
WANG	XX 819 PAGE 1/1				
WANG	XXX 201 PAGE 1/1				
WANG	FINISH				
WANG	SCALE				
WANG	SHFT				
WANG	OF				
WANG	WANG PART NUMBER				
WANG	SIZE				
WANG	DRAWING NUMBER				
WANG	REV				



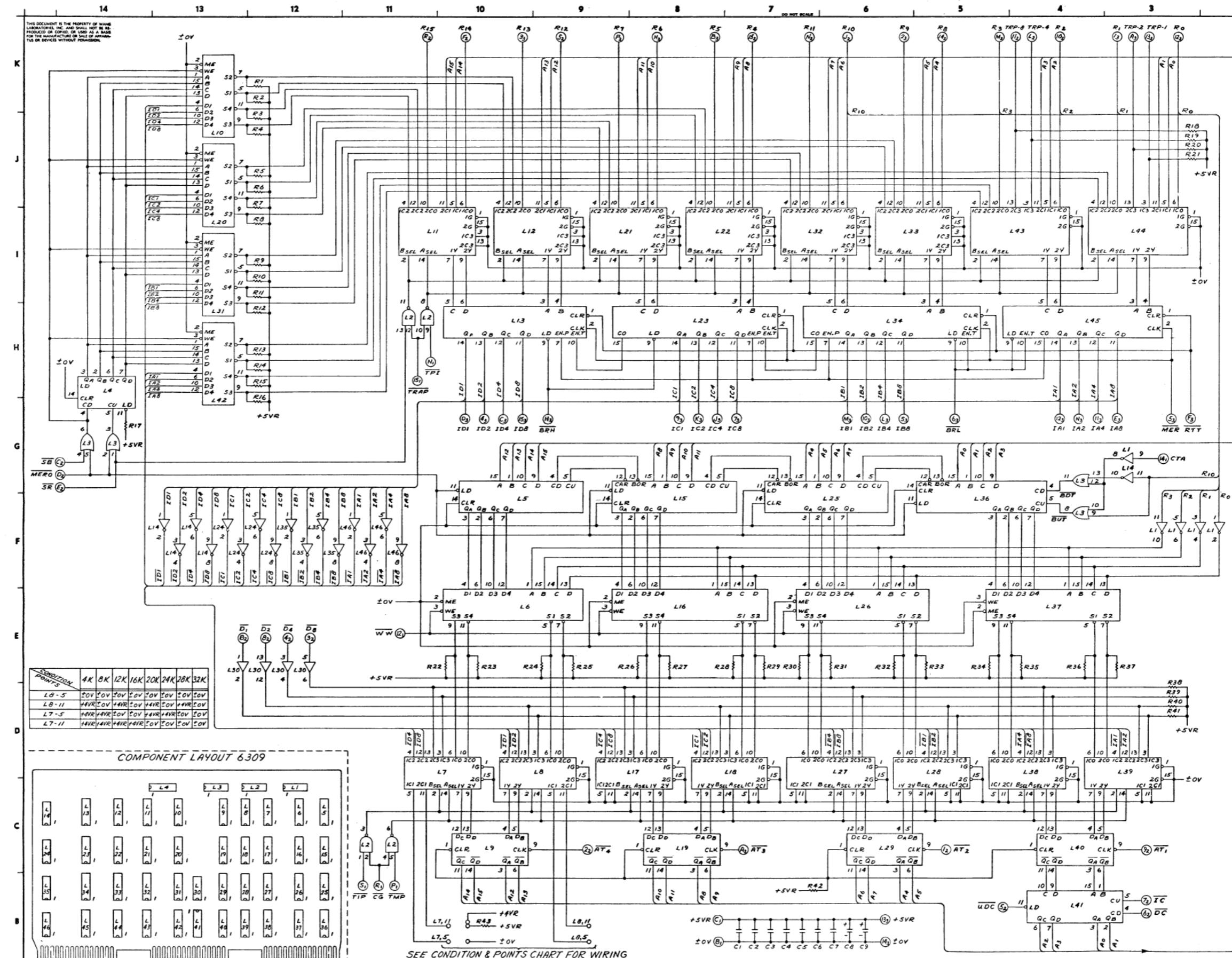
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TUS, EXCEPT AS AUTHORIZED BY WANG LABORATORIES.



ITEM NO.	DESCRIPTION	QTY.
14	L1	1
13	L2,3,4,24	4
14	L5,42,43,44	3
10	L6,17	2
14	L7,9,14,18,21	5
14	L8	1
14	L10,34	2
16	L12,13,38,39	4
16	L14,23	2
16	L15,16,19,20,23,32	6
16	L25,36,37,40	4
16	L26,27	2
16	L28,29,30,31	4
14	L33,35,41	3

COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY.
R1	2.7K 1/4W	330-3027	1
R3, 33	1K 1/4W	330-3010	2
R28	4.7K 1/4W	330-3047	1
R29	180Ω 1/4W	330-2018	1
R30	1.8K 1/4W	330-3018	1
R31, 32	220Ω 1/4W	330-2022	2
C19-20	15μF, 20V T	309-4022	2
C23	47PF CER	300-1047	1
C3-18	.05μF CER	360-1900	15
XTAL 1	10MC OSC.	321-0008	1
J1	16 PIN CONN.	376-9002	1

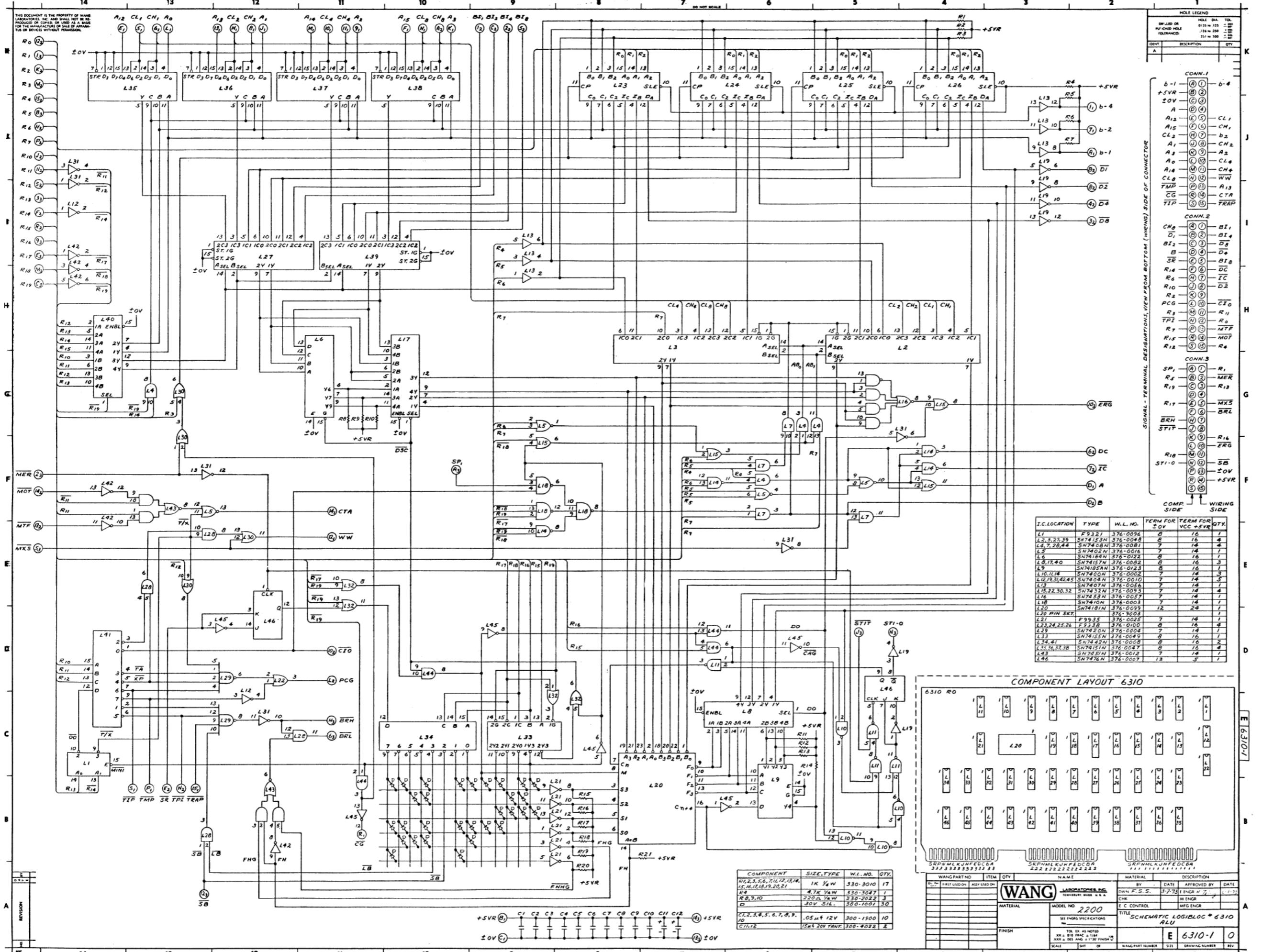
WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION				
DATE 19 <sup>th</sup> 19 <sup>68</sup>	FIRST USED ON	ASY USED ON	<b>WANG</b> LABORATORIES, INC. TEMBURY, MASS. U.S.A.		BY	DATE	APPROVED BY	DATE	
					DWN	9-12-73	E ENGR	4/1/73	
					CHK		M ENGR		
					E C CONTROL			MFG ENGR	
					TITLE SCHEMATIC LOGIC/BLOCK # 6308-1				
					MEMORY CONTROL				
			SET ENGR SPECIFICATIONS PRINTED 9-12-73						
FINISH		TOL. EX. AS NOTED XXX & 000 FRAC. 1/16A XXX & 000 ANG. $\pm 1^{\circ}30'$ FINISH		125		<b>E</b>		6308-2	3
		SCALE	SHT						
						WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
4	5	6	7	8	9	10	11	12	13

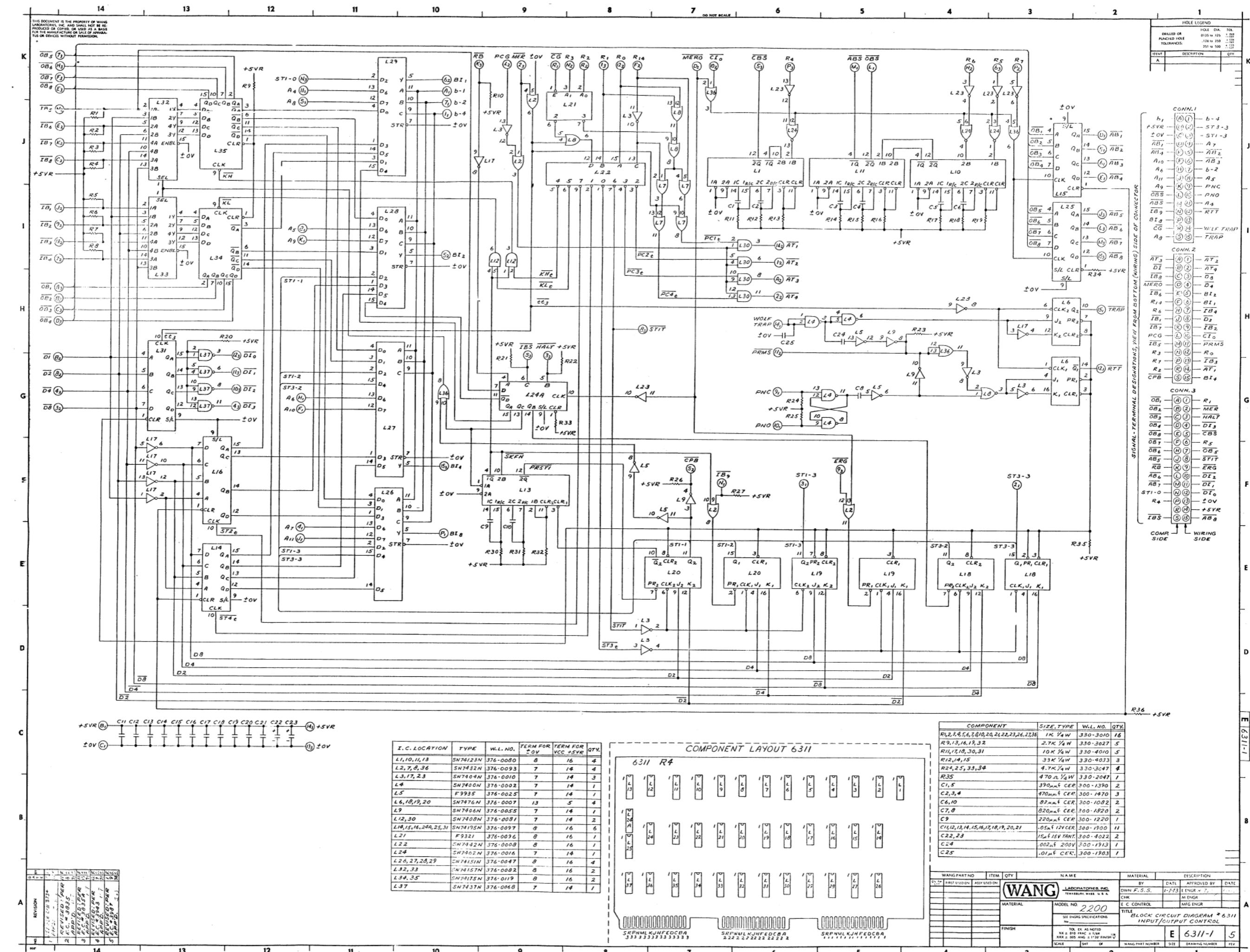


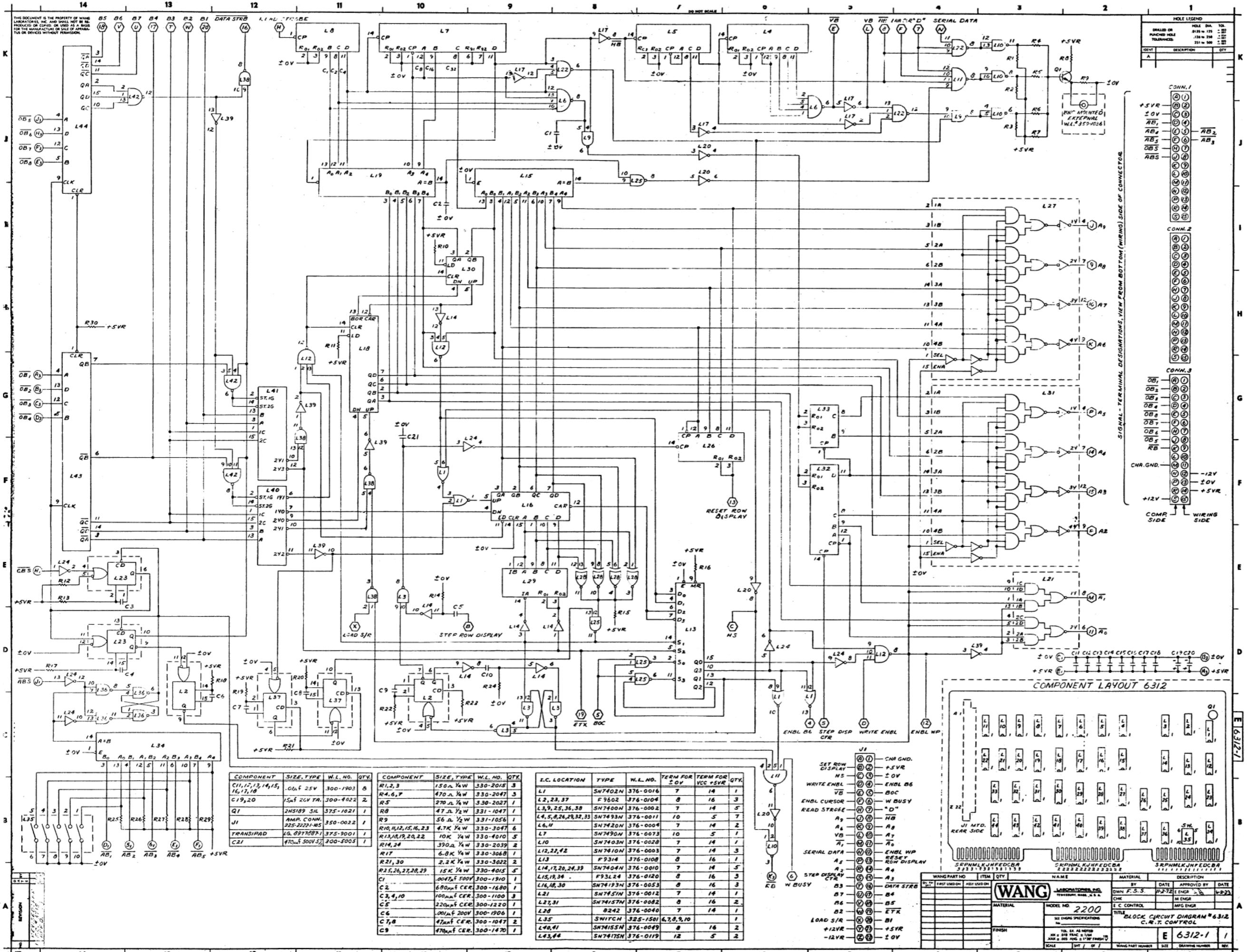
I.C. LOCATION	TYPE	W.L. NO.	TERM FOR I-CV	TERM FOR ICC & SVR	QTY.
L1,14,24,35,46	SN7404N	376-0010	7	14	5
L2	SN7400N	376-0002	7	14	1
L3	SN7432N	376-0093	7	14	1
L4,5,15,25,36,41	SN74193N	376-0053	8	16	6
L6,10,16,20,26,31,32,42	SN7489N	376-0113	8	16	8
L7,8,11,12,17,18,21,22, 22,23,32,33,34,35,43,44	SN74153N	376-0048	8	16	4
L9,19,29,40	SN74155N	376-0119	8	16	4
L1,13,23,34,45	SN74161N	376-0124	8	16	4
L30	SN7407N	376-0056	7	14	1

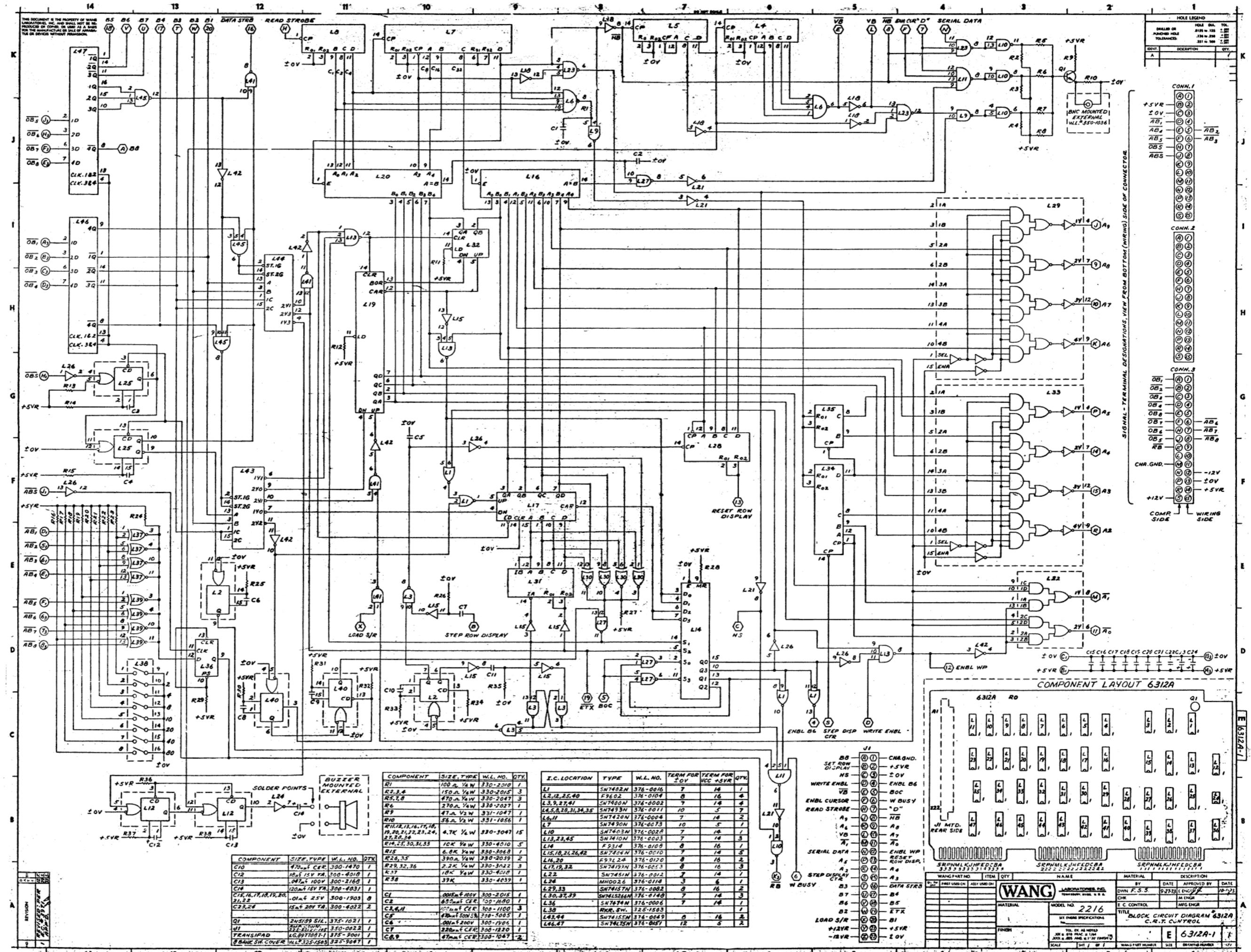
COMPONENT	SIZE, TYPE	W.L. NO.	Q.
91, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37	47Q.L 16W	330-2047	3
R17, 18, 19, 20, 21, 43	4.7K 16W	330-3047	
R30, 39, 40, 41, 42	1K 16W	330-3010	
C1, 2, 3, 4, 5, 6, 7	.004 CAP 250V	300-1503	
C8, 9	15MF 20V TANT	300-4022	

WANG PART NO	ITEM	QTY	NAME	MATERIAL
DATE	FIRST USED ON	ASV USED ON		BY
			<b>WANG</b>	DWY F. S. C.
			LABORATORIES, INC.	CHK
			TELETYPE, MASS., U.S.A.	E.C. CONTROL
				TITLE
				BLOCK
MATERIAL		MODEL NO. 2200		
		SEE ENGRG. SPECIFICATIONS		
FINISH		TO: EX AS NOTED		
		XX ± .010 FRAC 2 1/8"		
		XX ± .005 ANG. ± 1/10" FINISH V		
		SCALE	SHFT	WANG PART NO.

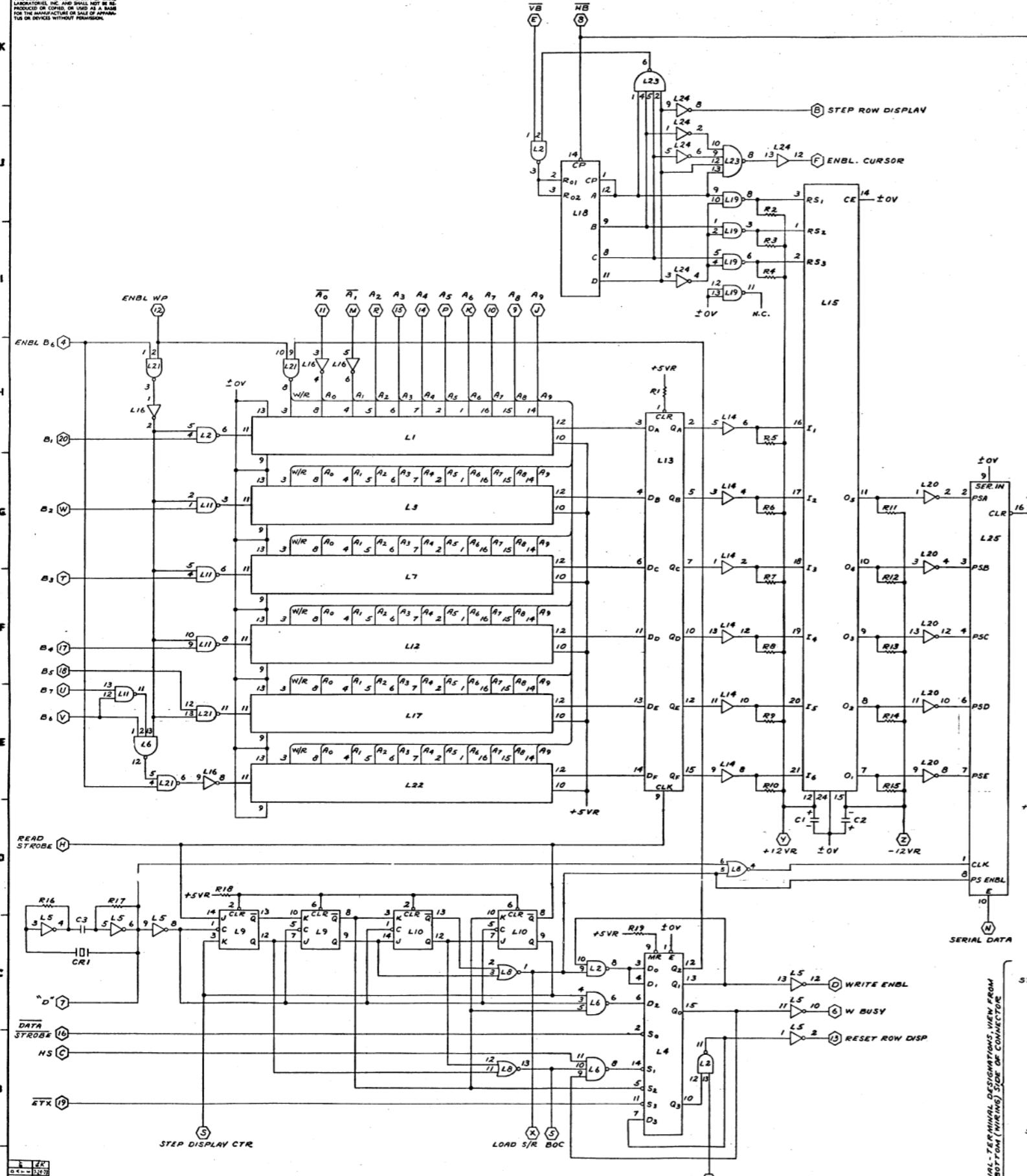








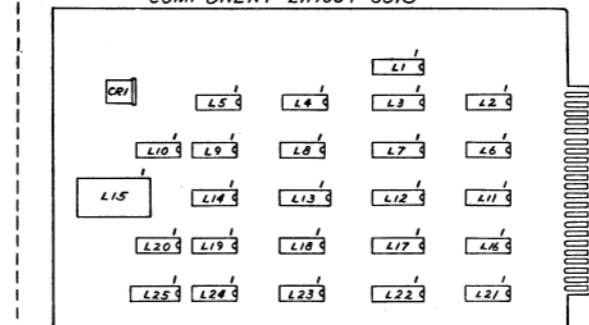
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COMPONENT	SIZE, TYPE	W.L. NO.
R1,19	4.7K 1/4W	330-3047
R2,3,4,5,6,7,8,9,10	3.3K 1/4W	330-3033
RH,12,13,14,15	6.8K 1/4W	330-3068
R16,17	470Ω 1/4W	330-2047
R18	1K 1/4W	330-3010
C1,2,4,5,6,7	15μF 20V TANT	300-4022
C3,8,9,10,11,12,13,14,15	.01μF 25V	300-1903
CRI	8.60160 MHZ	321-0012

I.C. LOCATION	TYPE	W.L. NO	TERM FOR TOV	TERM FOR VCC + SVB	QTY
L1,3,7,12,17,22	2102				6
L2,11,21	SN7400N	376-0002	7	14	3
L4	F9314	376-0108	8	16	1
L5,16,20,24	SN7404N	376-0010	7	14	4
L6	SN7410N	376-0003	7	14	1
L8	SN7420N	376-0016	7	14	1
L9,10	SN7473N	376-0005	11	4	2
L13	SN74174N	376-0098	8	16	1
L14	SN7407N	376-0056	7	14	1
L15	MM5240A	377-0070	24		
L15 SOCKET	24 PIN BLK	376-9003			1
L18	SN7493N	376-0011	10	5	1
L19	SN7426N	376-0067	7	14	1
L23	SN7420N	376-0004	7	14	1
L25	SN7496N	376-0065	12	5	1

COMPONENT LAYOUT 6313

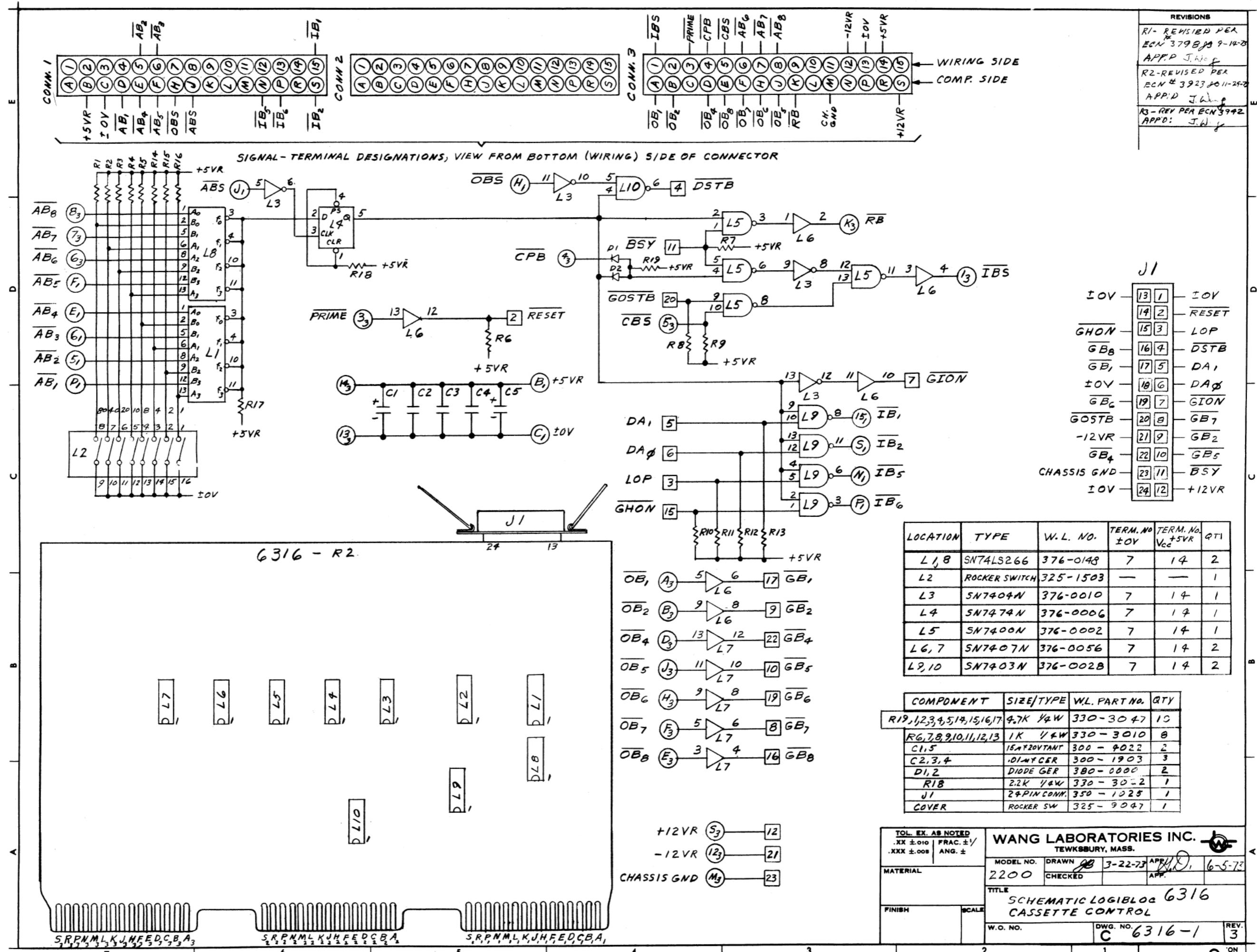


				CHAR. GND
STEP ROW DISP		①	②	+SVR
		②	③	±OV
	HS	③	④	
WRITE ENBL		④	⑤	ENBL B6
	VB	⑤	⑥	BOC
ENBL CURSOR		⑥	⑦	W BUSY
READ STROBE		⑦	⑧	“D”
	A <sub>9</sub>	⑧	⑨	HB
	A <sub>6</sub>	⑨	⑩	A <sub>8</sub>
	VB	⑩	⑪	A <sub>7</sub>
	A <sub>1</sub>	⑪	⑫	A <sub>6</sub>
SERIAL DATA		⑫	⑬	ENBL WP
	A <sub>2</sub>	⑬	⑭	RESET ROW D
	A <sub>2</sub>	⑭	⑮	A <sub>4</sub>
STEP DISP CTR		⑮	⑯	A <sub>3</sub>
	B <sub>3</sub>	⑯	⑰	DATA STROBE
	B <sub>7</sub>	⑰	⑱	B <sub>4</sub>
	B <sub>6</sub>	⑱	⑲	B <sub>5</sub>
	B <sub>2</sub>	⑲	⑳	ETX
LOAD S/R		⑳	㉑	B <sub>1</sub>
+12VR		㉑	㉒	+SVR
-12VR		㉒	㉓	±OV

B7	U17	B4
B6	V16	B5
B2	V15	ETX
LOAD S/R		
+12VR	X12	B1
-12VR	Z12	+SVR
	Z12	-ZVR
	Z12	ZOV

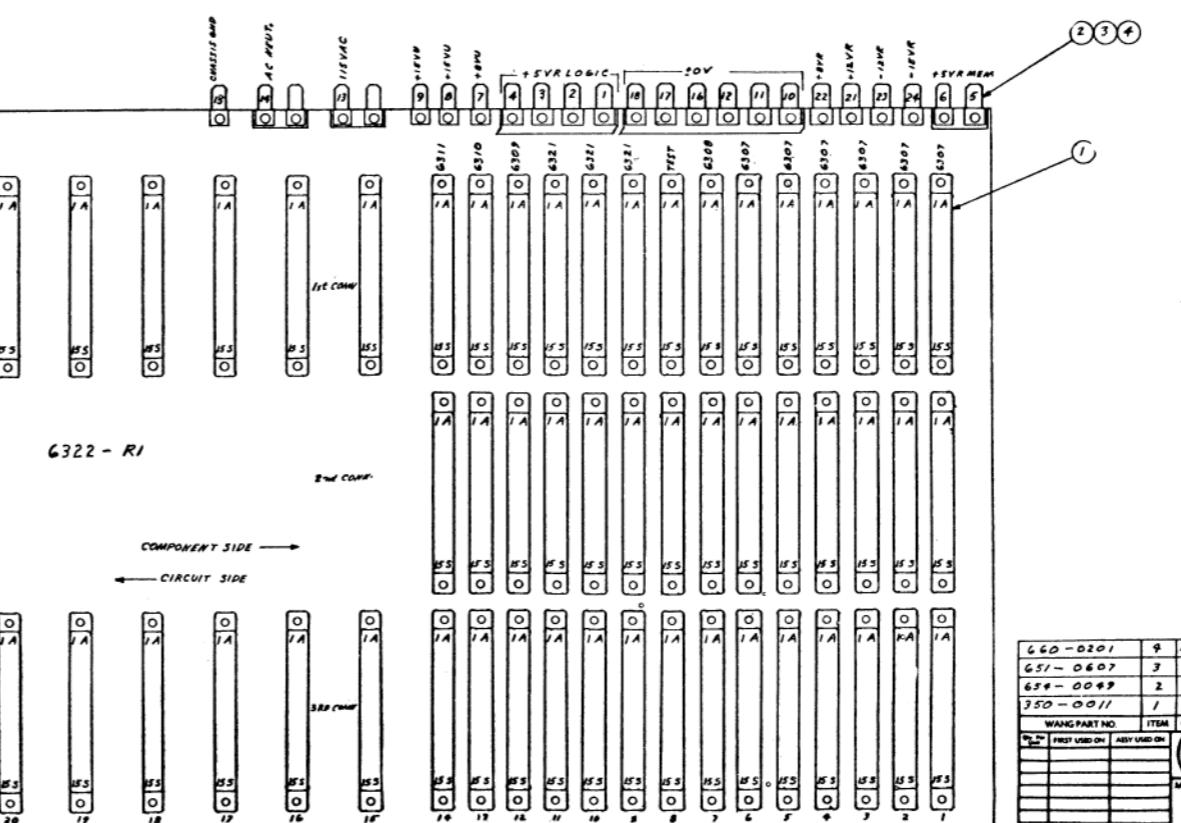
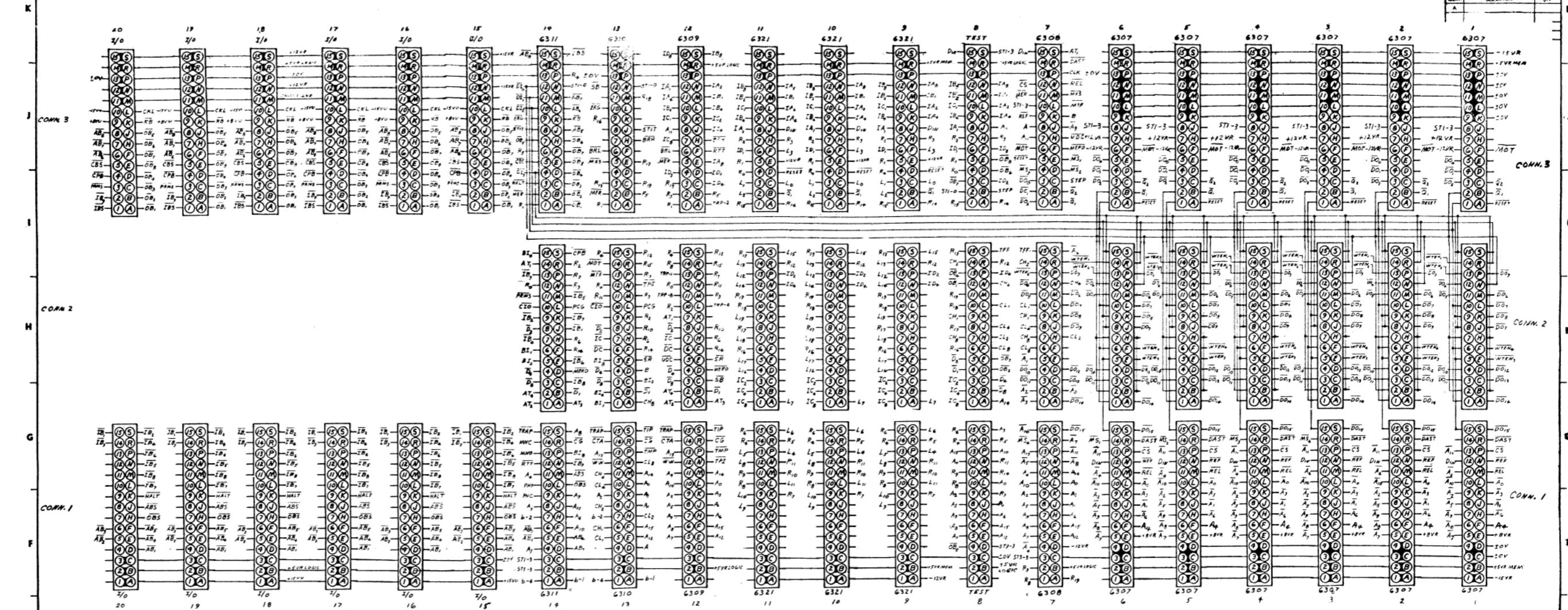
WANG PART NO.	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
FIRST USED ON	ASST USED ON		WANG LABORATORIES, INC. TERMINALLY WIRELESS	BY	DATE APPROVED BY DATE
				DWN F.S.S.	1-17-72 ENGR 34 6-5-72
				CHK	AM ENGR
				E C CONTROL	AMG ENGR
				TITLE BLOCK CIRCUIT DIAGRAM #6313 C.R.T. CONTROL	
SEE ENGINEER SPECIFICATIONS					
FINISH					
TOL. EX AS NOTED XX = .010 INCH = 1/64 XXX = .005 INCH = 1/16 INCH					

REVISIONS  
 R1 - REVISED PER  
 ECN # 3798 J9 9-14-73  
 APP. P J.W.  
 R2 - REVISED PER  
 ECN # 3923 J0 11-25-73  
 APP. D J.W.  
 R3 - REV PER ECN 3942  
 APPD: J.W.



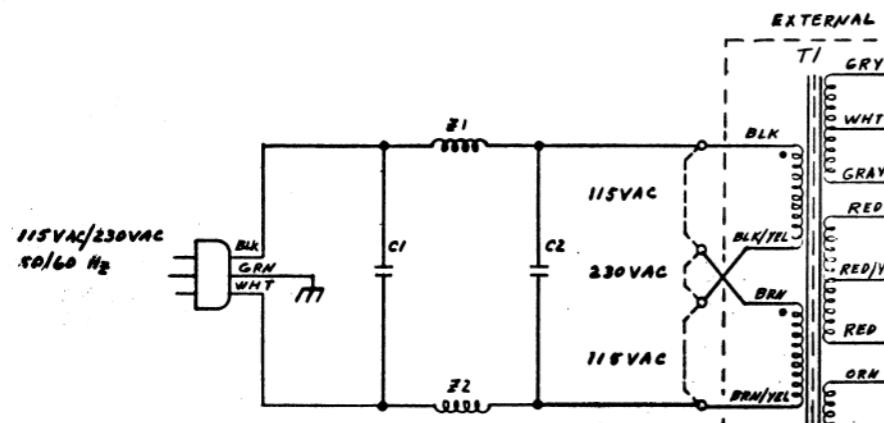


WIRKUNG SIEFE

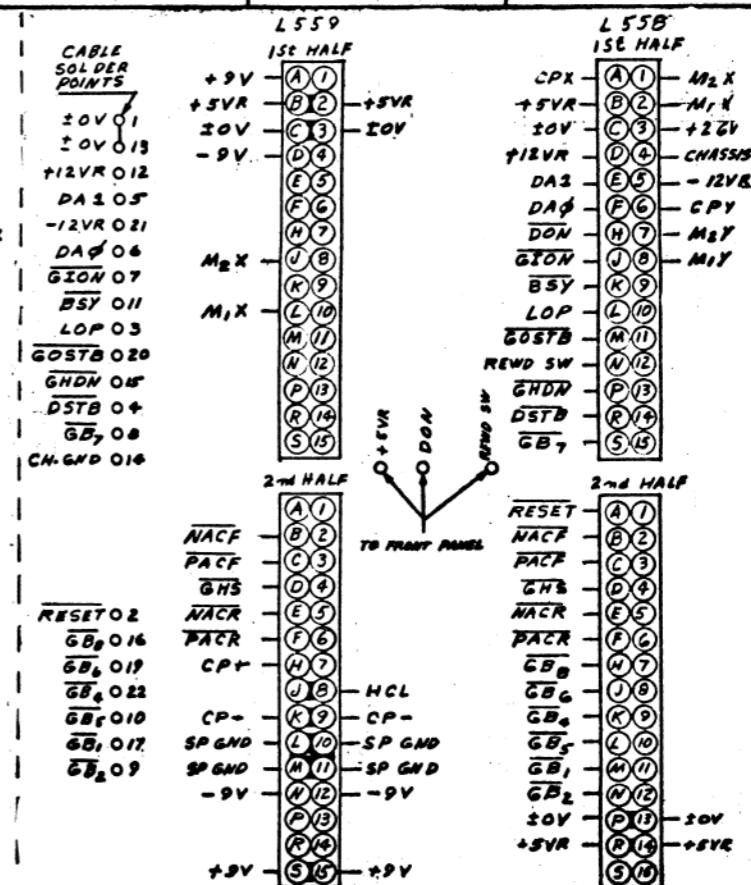
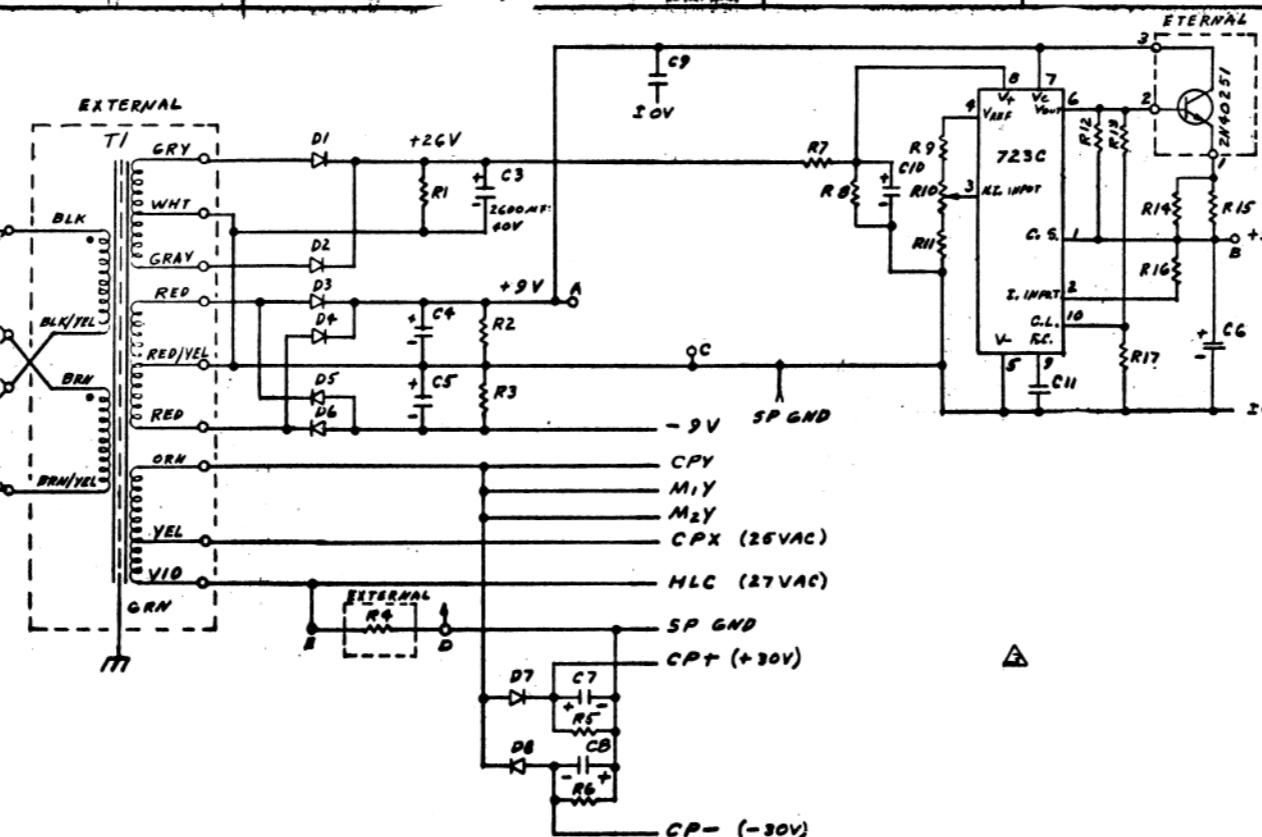
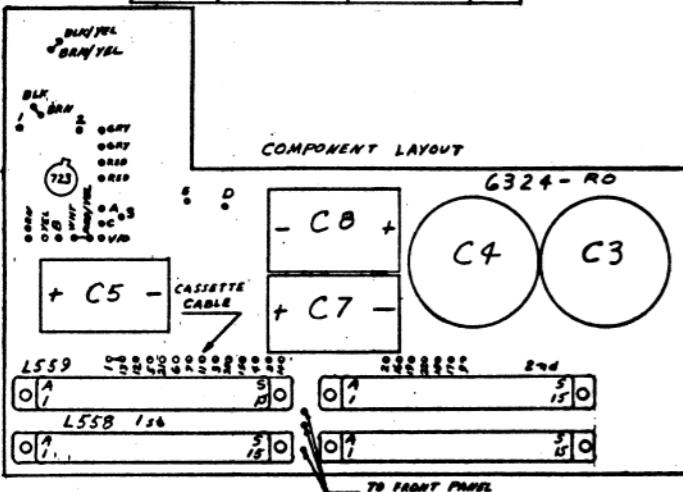


-0201	4	NR	SOLDER		63-37 ALLOY				
-0607	3	24	DISC EVELT SE-46						
-0049	2	24	AMP OFF SET TERMINAL		#42506-2				
-0011	1	54	CONNECTOR 235-21521-110		30 PIN CONNECTOR				
FANG PART NO.				ITEM QTY	NAME	MATERIAL	DESCRIPTION		
FIRST USED ON	ASB USED ON	(WANG)		LABORATORIES, INC.	BY	DATE	APPROVED BY	DATE	
				TELETYPE, MAIL, S. A.	OWN-A-3	5/2/71	E ENGR	5-2-71	
					CHE		M ENGR		
MATERIAL		MODEL NO		2200	I.C CONTROL	TITLE MOTHER BOARD			
FINISH		ME SHIPS SPECIFICATIONS		No.					
TOL. EX AS NOTED	ID: .819 PLAC: 1.0M	OD: 2.000 PLAC: 2.100	FLAT: 1.000		E	6322-1			
JOINT: 2.000	SHRINK: 1.000	SHRINK: 2.000	SHRINK: 1.000						
SCALE	SIZE	UNIT	NAME	PART NUMBER	SIZE	MANUFACTURER	DATE		

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COMP.	SIZE/TYPE	WL PART NO.	QTY
R15	1K 1W	330-3010	1
R1,2,3	9K 1W	330-4010	3
R4	10Ω 1W	333-0046	1
R5,6	1K 2W	337-3010	2
R7	680Ω 1W	330-2068	1
R8,13	820Ω 1W	330-2082	2
R9	1.5K 1W	330-3015	1
R10	1K POT	332-1001	1
R11	4.7K 1W	330-3047	1
R12	100Ω 1W	330-2010	1
R14,15	1.5Ω 1W	331-0010	2
R17	1.2K 1W	330-3012	1
C1,2	.024μF 1000V	300-1916	2
C3	.160μF 50V	300-3059	1
C4	14000μF 16V	300-3045	1
C5	2000μF 20V	300-3058	1
C6	100μF 16V	300-3011	1
C7,B	.500μF 30V	300-3033	2
C9,11	.01μF CER	300-1903	2
C10	.15μF 20V	300-3007	1
D1,2,5,6,7,8	EM403	380-4000	6
D3,4	GEA15-F	380-3004	4
Z1,Z2	22 MA	380-0000	2
	1W KORD	420-1000	1
T1	MMC-4831	610-0089	1
CDNA	225-21521-110	354-0011	4
	783C	376-0066	1



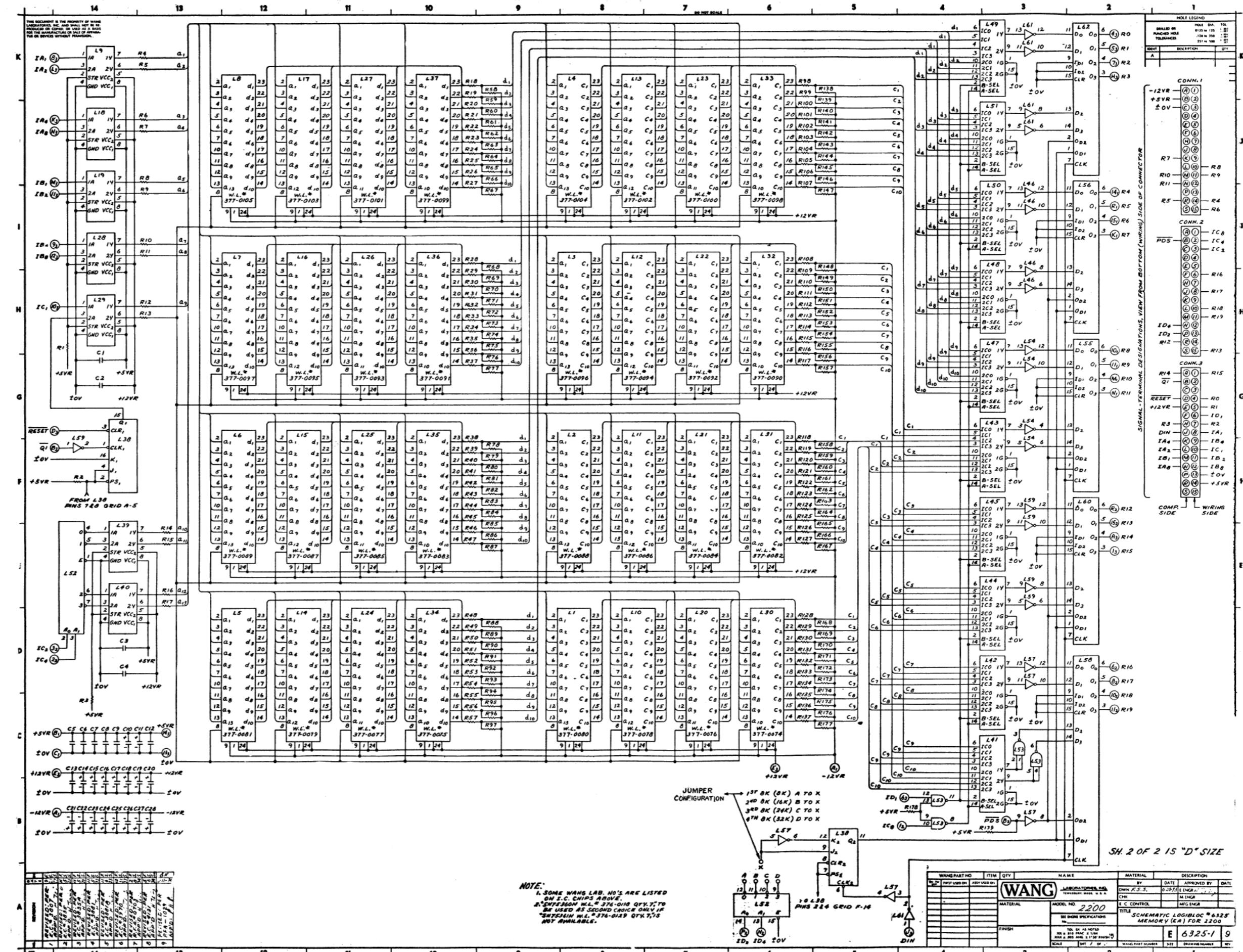
**NOTE:-**  
1. STRIP BACK  $\frac{1}{8}$ " AND TIN  $\frac{1}{8}$ "

**4. FOLD BACK AND TIE ALL UNUSED WIRES**

SIG.	PC. BD NO.	WIRE NO.	CONN. PIN NO.
<u>±OV</u>	1	1	1
<u>RESET</u>	2	2	2
<u>LOP</u>	3	3	3
<u>DSTB</u>	4	4	4
<u>DA 1</u>	5	5	5
<u>DA 0</u>	6	6	6
<u>GNDN</u>	7	7	7
<u>GB<sub>1</sub></u>	8	8	8
<u>GB<sub>2</sub></u>	9	9	9
<u>GB<sub>5</sub></u>	10	10	10
<u>BSY</u>	11	11	11
<u>+12VR</u>	12	12	12

SIG.	PC.BD NO.	WIRE NO.	CONN. PIN NO.
<u>±0V</u>	13	13	13
<u>      </u>	<u>      </u>	14	14
<u>GNDN</u>	15	15	15
<u>GB<sub>3</sub></u>	16	16	16
<u>GB<sub>1</sub></u>	17	17	17
<u>±0V</u>	<u>      </u>	18	18
<u>GB<sub>6</sub></u>	19	19	19
<u>GOSTB</u>	20	20	20
<u>-12VR</u>	21	21	21
<u>GB<sub>4</sub></u>	22	22	22
<u>CH.GND</u>	14	23	23
<u>±0V</u>	<u>      </u>	24	24

△ GGO-0202		1	A/R	SOLDER		G3-37 ALLOY			
WANG PART NO		ITEM	QTY.	NAME	MATERIAL	DESCRIPTION			
QTY Per Carton	FIRST USED ON	ASSY USED ON	<b>WANG</b>		BY	DATE	APPROVED BY	DATE	
			LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.		OWN 88	3-12-73	E ENGR G. J.	6-7-73	
					CHK		M ENGR		
					E C CONTROL		MFG ENGR		
			MODEL NO. <u>2217/16</u>		TITLE <u>SCHEMATIC, POWER G324-3</u> <u>SUPPLY MOTHER BOARD</u>				
			SEE ENGR SPECIFICATIONS <u>N/A</u>						
			FINISH		TOL. EX. AS NOTED JDX ± .010 PRAC. ± 1/64 <sup>125</sup> JDX ± .005 ANG. ± 1°30' FINISH ✓		D	G324-1	3
			SCALE	INCH	OF	WANG PART NUMBER	SIZE	DRAWINGS NUMBER	REV.



**SEE JUMPER CONFIGURATION  
IN ZONE 6B ON SH. 1 OF 2**

10

1

8

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1

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SEE JUMPER CONFIGURATION  
IN ZONE 6B ON SH. 1 OF 2

L57, P5 TO L52, P12

L57,P5 TO L52,PII

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### \* PREFIX & SUFFIX IDENTIFICATION

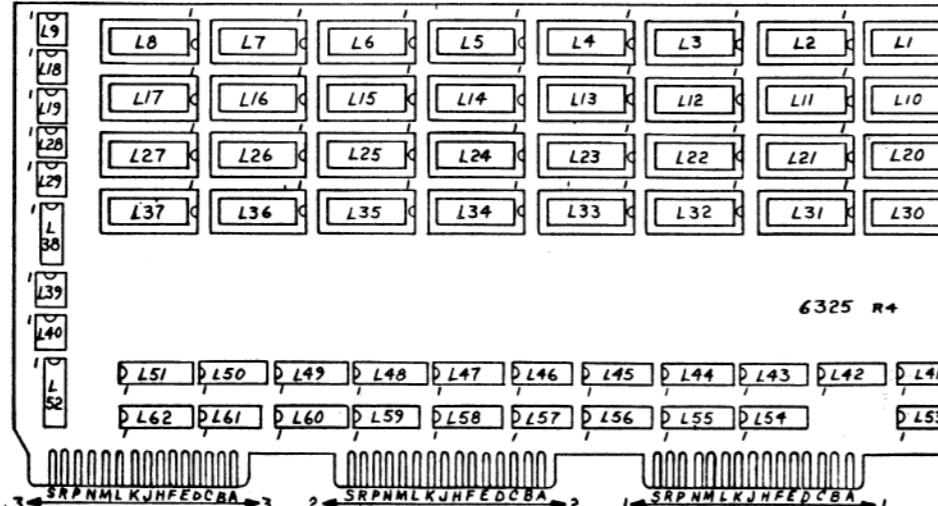
"A" - 22000

"A" - 2200A  
"B" - 2200B

"M" - MATRIX OPTION, LOAD L3, 7, 12, 46  
"B" - DEFINES 2MB BY RAM IN 2, 3, 6, 8

"X" - DEFINES 2<sup>ND</sup> OR ROM IN A 2200B

## COMPONENT LAYO



LOCATION	TYPE	W.L. P/N	TERM. NO. TOP	TERM. NO. VCC+5V	QTY.
L9,18,19,28,29,39,40	SN75361N SEE NOTE 2	376-0129	4	8	7
L38	SN7476N	376-0007	5	13	1
L41,42,43,44,45, 47,48,49,50,51	SN74153N	376-0048	8	16	10
L52	F9321	376-0096	8	16	1
L53	SN7437N	376-0068	7	14	1
L46,54,57,59,61	SN7404N	376-0010	7	14	5
L55,56,58,60,62	8T10	376-0137	8	16	5
REF. NOTE 1	I.C. SOCKET	376-9003			32

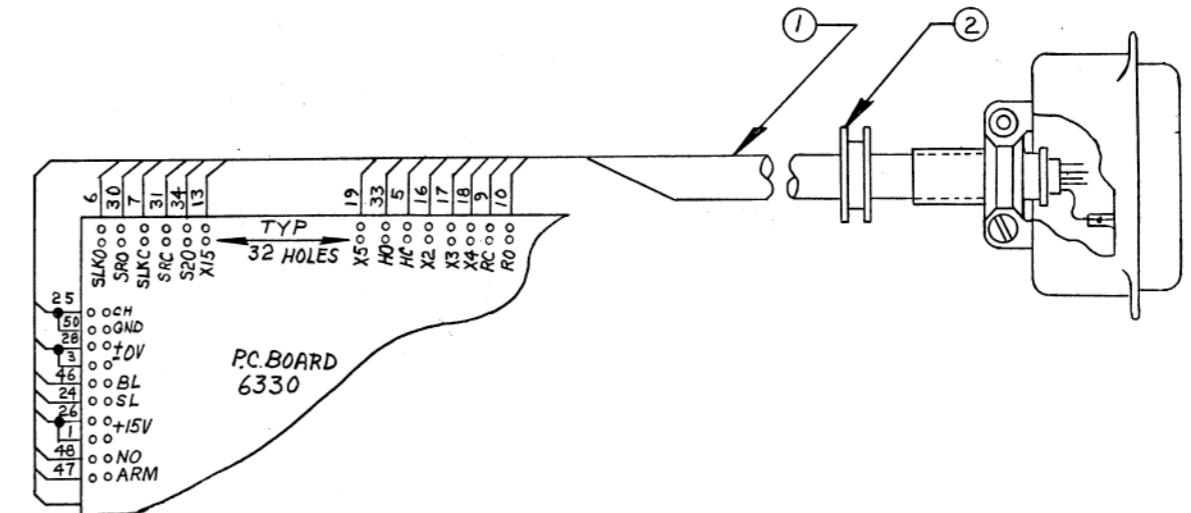
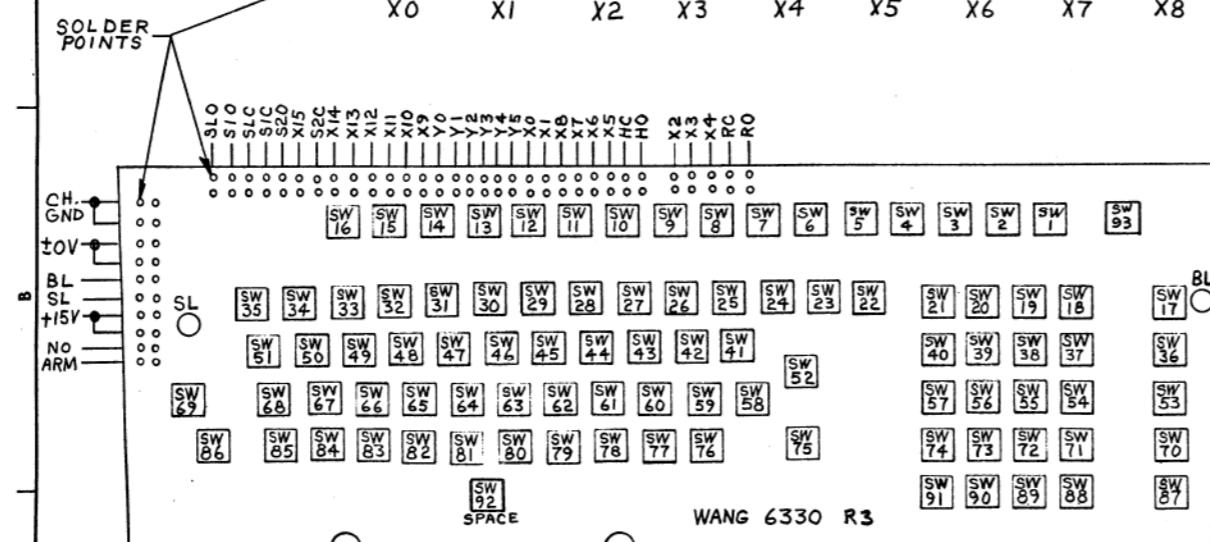
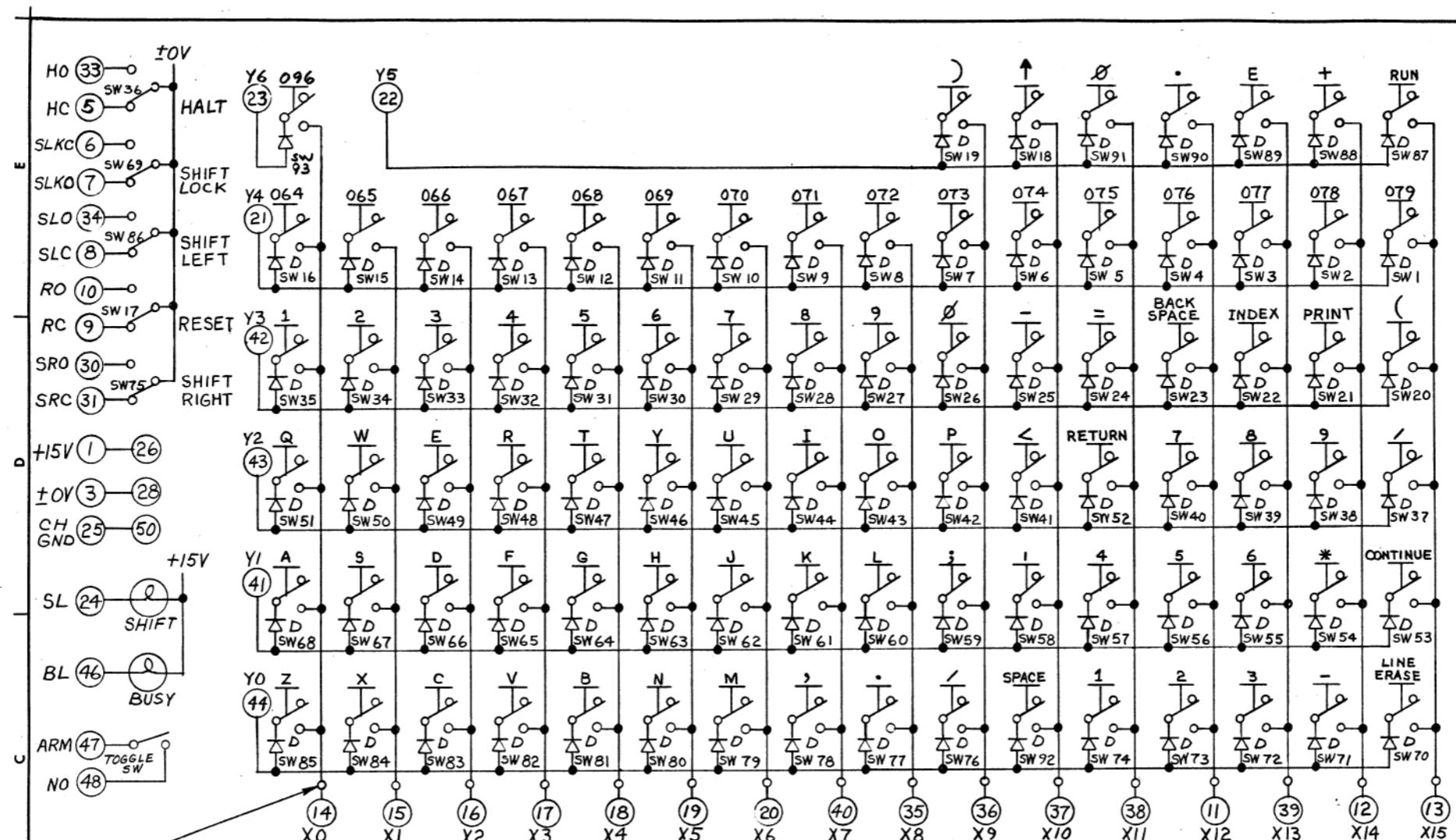
---

NOT

I. SEE JUMPER CONFIGURATION ON SHEET 1 OF 2.

COMPONENT	SIZE	TYPE	W.L. P/N	QTY
R1, 3	1K	1/4W	330-3010	2
R2	4.7K	1/4W	330-3047	1
R4 - 17	10Ω	1/4W	330-3010	14
R18-57, 98- 137, 178	2.7K	1/4W	330-3027	81
R58-97 138-177	6.8K	1/4W	330-3068	80
R179	2.2K	1/4W	330-3022	1
C1-4, 12, 13	.1μF	50V	300-1930	6
C5-9	.054μF	12V	300-1900	5
C10, 11, 14, 21	15μF	20V TANT	300-4022	4
C15-20, 22-28	1μF	35V TANT	300-4000	13

WANG LABORATORIES INC. TEWKSBURY, MASS.					
MODEL NO.	DRAWN BY	6-11-74	APR.	P.R.	6-17
2200	ENCLERED				
W.L.C. SCHEMATIC LOGIBLOC # 6325 VARIATION CHART					
REV 2	2	D 6325-1			



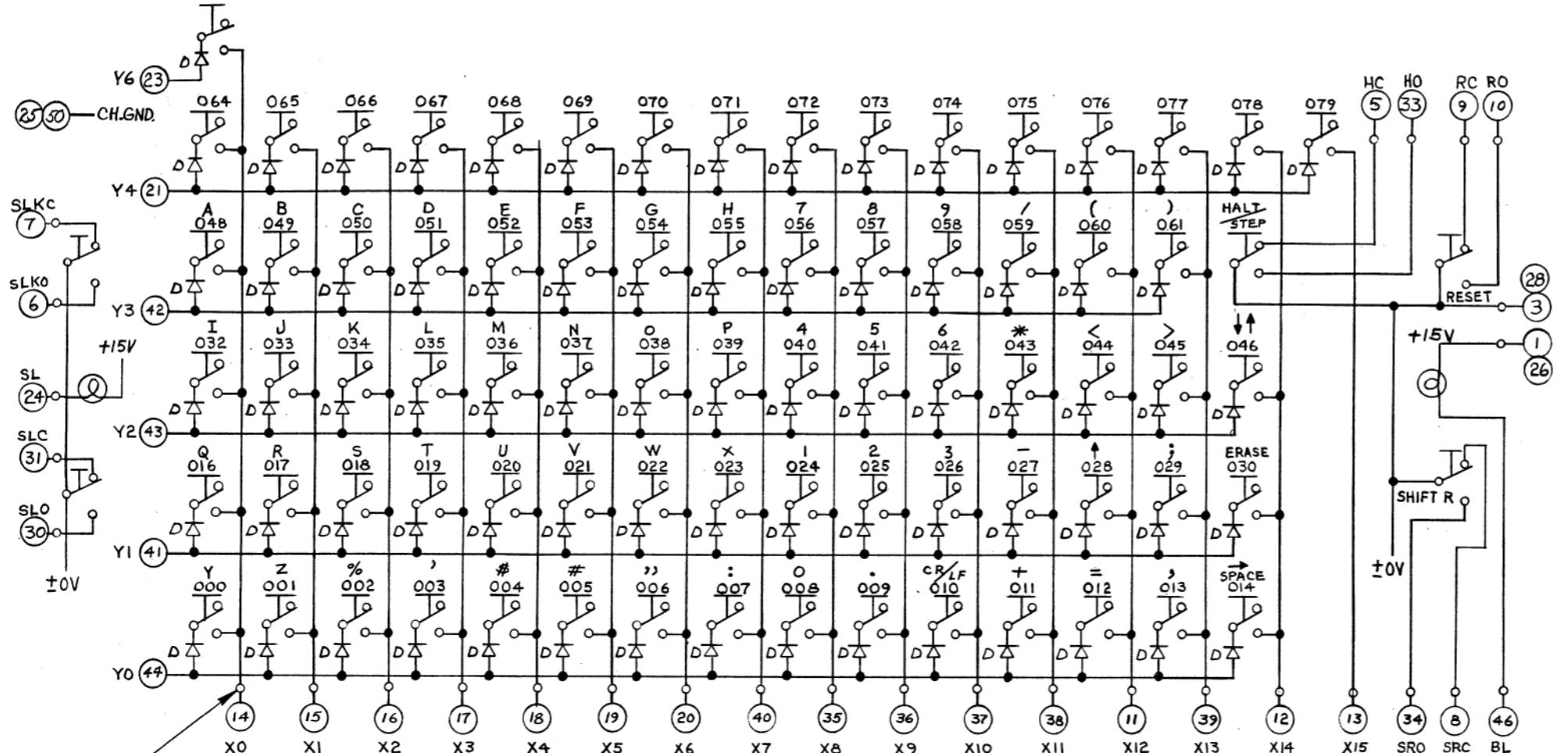
REV	BR	BR	DN	BR	BR
0	APPD	1	REV PER ENR 4040	2-21-74	10/3/74
1	APPD	2	REV PER ENR 4401	2-12-75	2-25-75
2	APPD	3	REVISED PER	2-10-74	2-7-74
3	APPD	4	REVISED PER	2-10-74	2-7-74
4	APPD	5	REVISED PER	2-10-74	2-7-74
5	APPD	6	REVISED PER	2-10-74	2-7-74
6	APPD	7	REVISED PER	2-10-74	2-7-74

ITEM	NAME	DESCRIPTION
380-1001	68 SIL. DIODE	4B
SWITHRU 16#325-2413	17 OAK SWITCH	SPST 7/16"
ALL OTHERS 325-2405	71 OAK SWITCH	SPST 1/2"
SW17,36,69,75,86 325-2407	5 OAK SWITCH	SPDT 1/2"
370-0004	2 LAMP	1762 WHITE
654-1205	2 REF GROMMET	1/2 I.D. - 3/4 HOLE
220-2650-1	1 REF CABLE ASSY.	DWG. C-6482-4
WANG PART NO.	ITEM QTY.	NAME

TOL. EX. AS NOTED		MATERIAL	WANG LABORATORIES INC.	
.XX ± .010	FRAC. ± / .XXX ± .008		ANG. ±	TEWKSBURY, MASS.
2222	DRAWN & K	5-30-73	APP.	6-5-73
	CHECKED		APP.	
TITLE SCHEMATIC LOGIBLOC 2222 KEYBOARD				
W.O. NO.	DWG. NO.	C 6330 RFV. 4		

E.REV.  
1

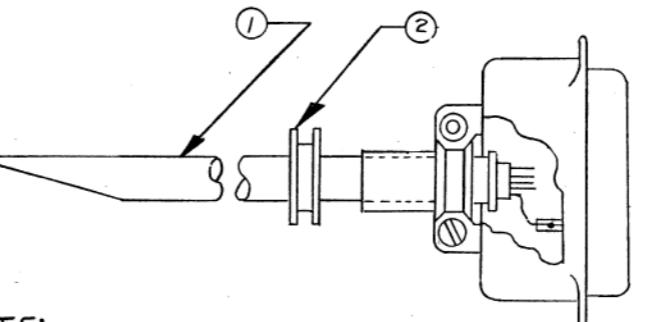
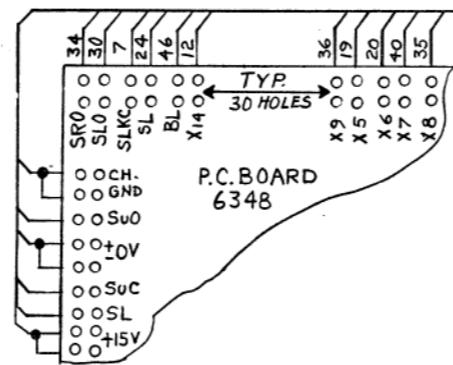
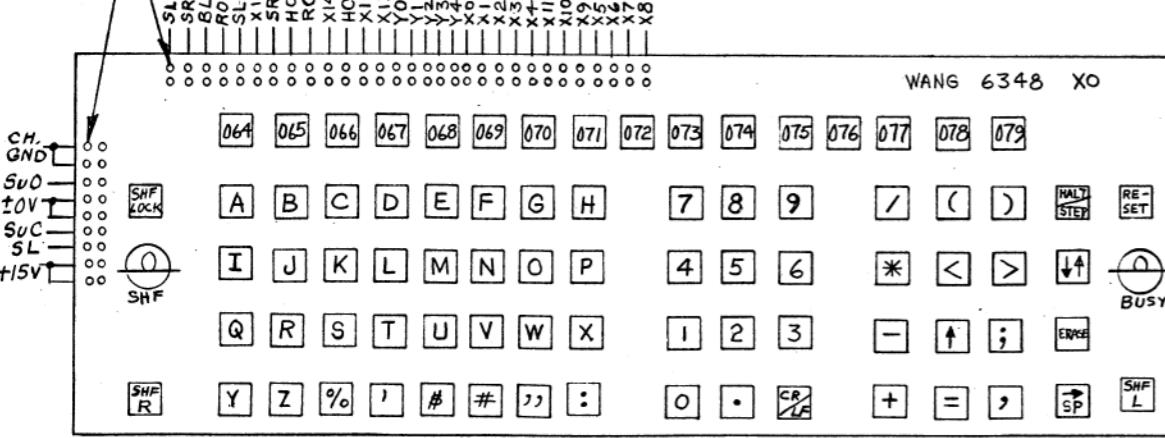
0EE9 C ON DMD



SIGNAL	WIRE NO.	PIN NO.
+15V	1	1
X	2	2
$\pm 10V$	3	3
X		4
HC	5	5
SLKO	6	6
SLKC	7	7
SRC	8	8
RC	9	9
RO	10	10
X <sub>12</sub>	11	11
X <sub>14</sub>	12	12
X <sub>15</sub>	13	13
X <sub>0</sub>	14	14
X <sub>1</sub>	15	15
X <sub>2</sub>	16	16
X <sub>3</sub>	17	17
X <sub>4</sub>	18	18
X <sub>5</sub>	19	19
X <sub>6</sub>	20	20
Y <sub>4</sub>	21	21
X	22	22
Y <sub>6</sub>	23	23
SL	24	24
CHAS.	25	25

SIGNAL	WIRE NO.	PIN NO.
+15V	26	26
X	27	27
±0V	28	28
X		29
SLO	30	30
SLC	31	31
X	32	32
HO	33	33
SRO	34	34
X8	35	35
X9	36	36
X10	37	37
X11	38	38
X13	39	39
X7	40	40
Y1	41	41
Y3	42	42
Y2	43	43
Y0	44	44
X	45	45
BL	46	46
X	47	47
X	48	48
X		49
CHAS.	50	50

## SOLDER POINTS



### **NOTE**

1. IF UNIT IS NOT AN EDIT VERSION, DELETE (1)  
325-2413 AND (1) 380-1001
  2. THE SHIFT LOCK SWITCH (SLK) IS WIRED REVERSED  
ON MODEL 2215.

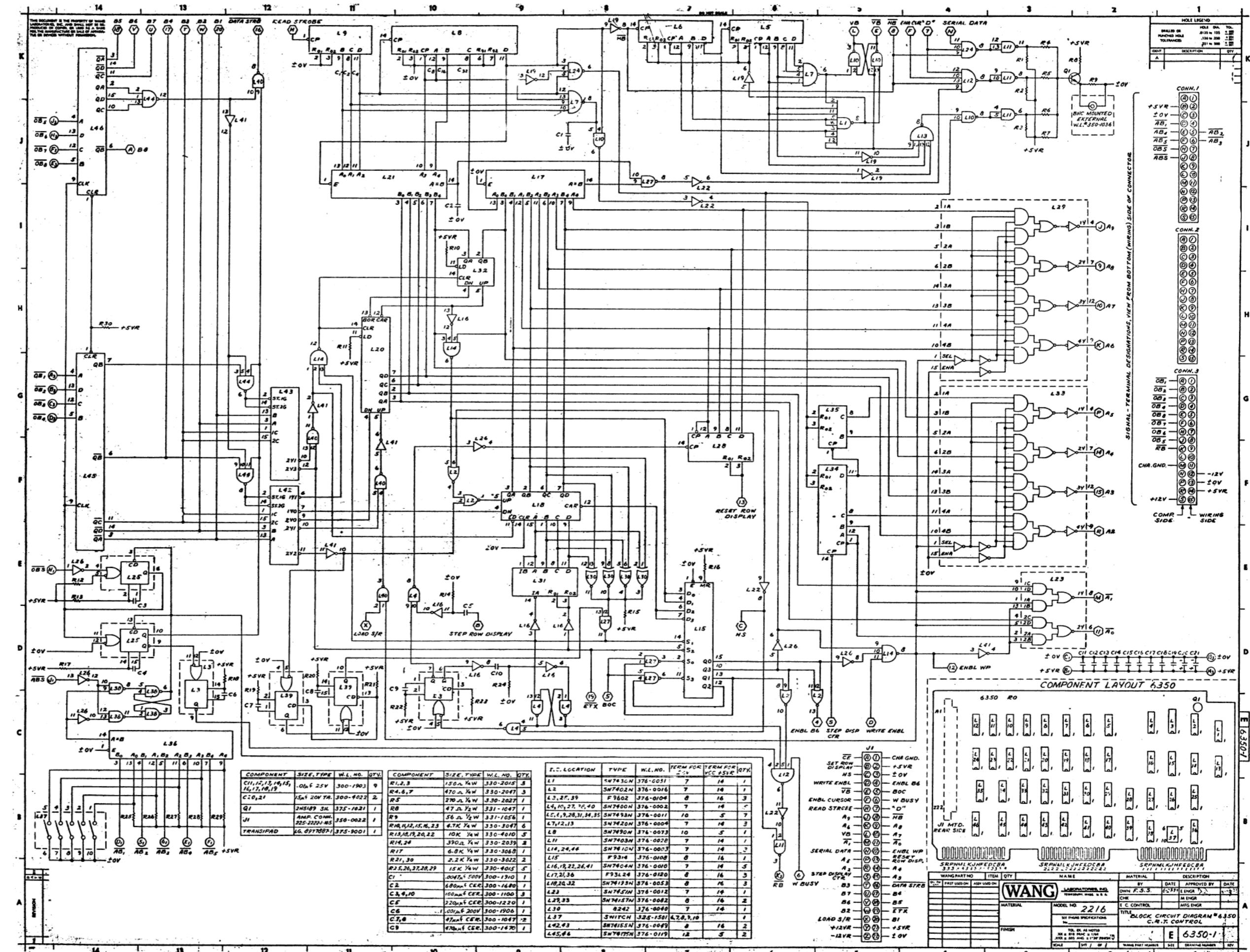
E.REV.  
O

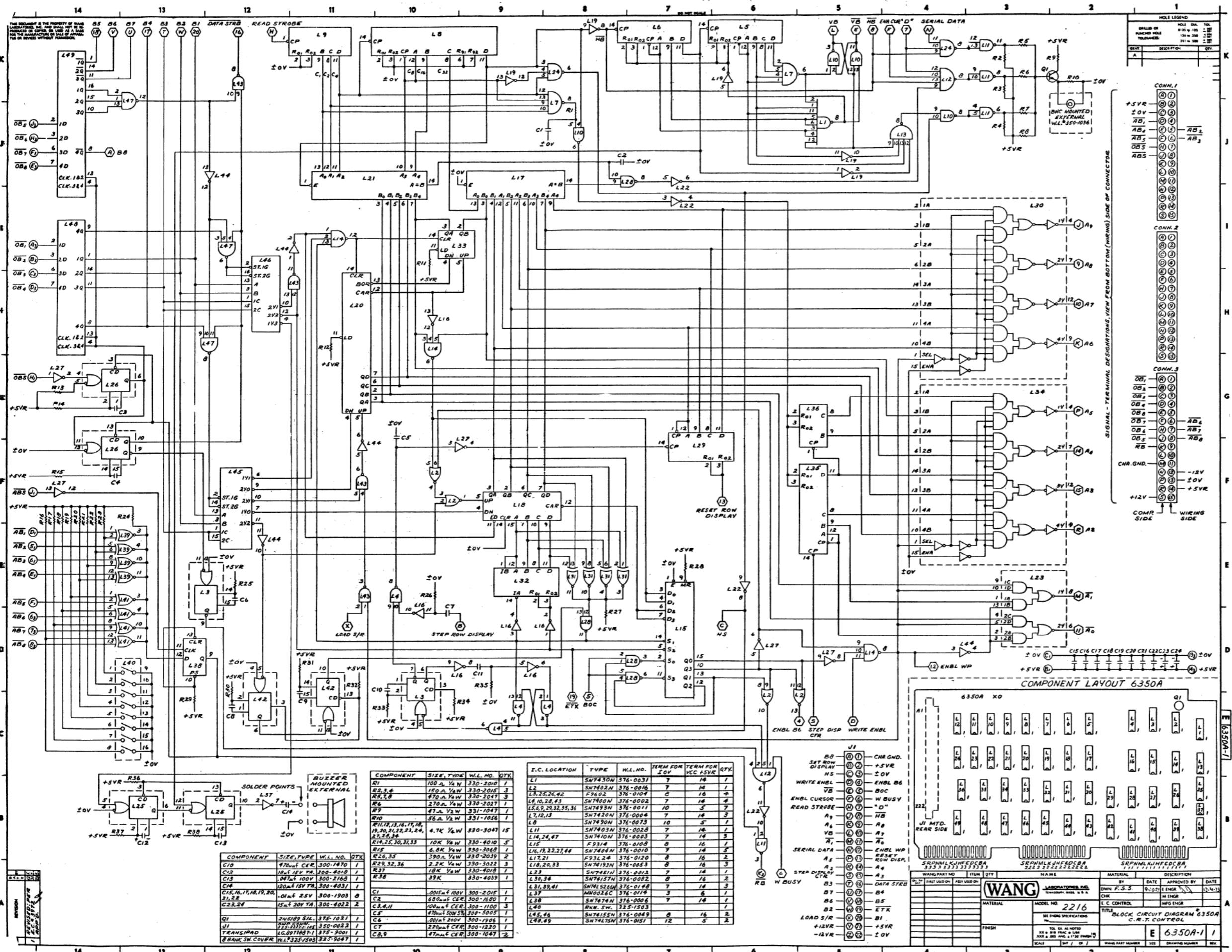
NOTE: 1-STRIP BACK  $\frac{1}{4}$ " & TIN  $\frac{1}{8}$ ".

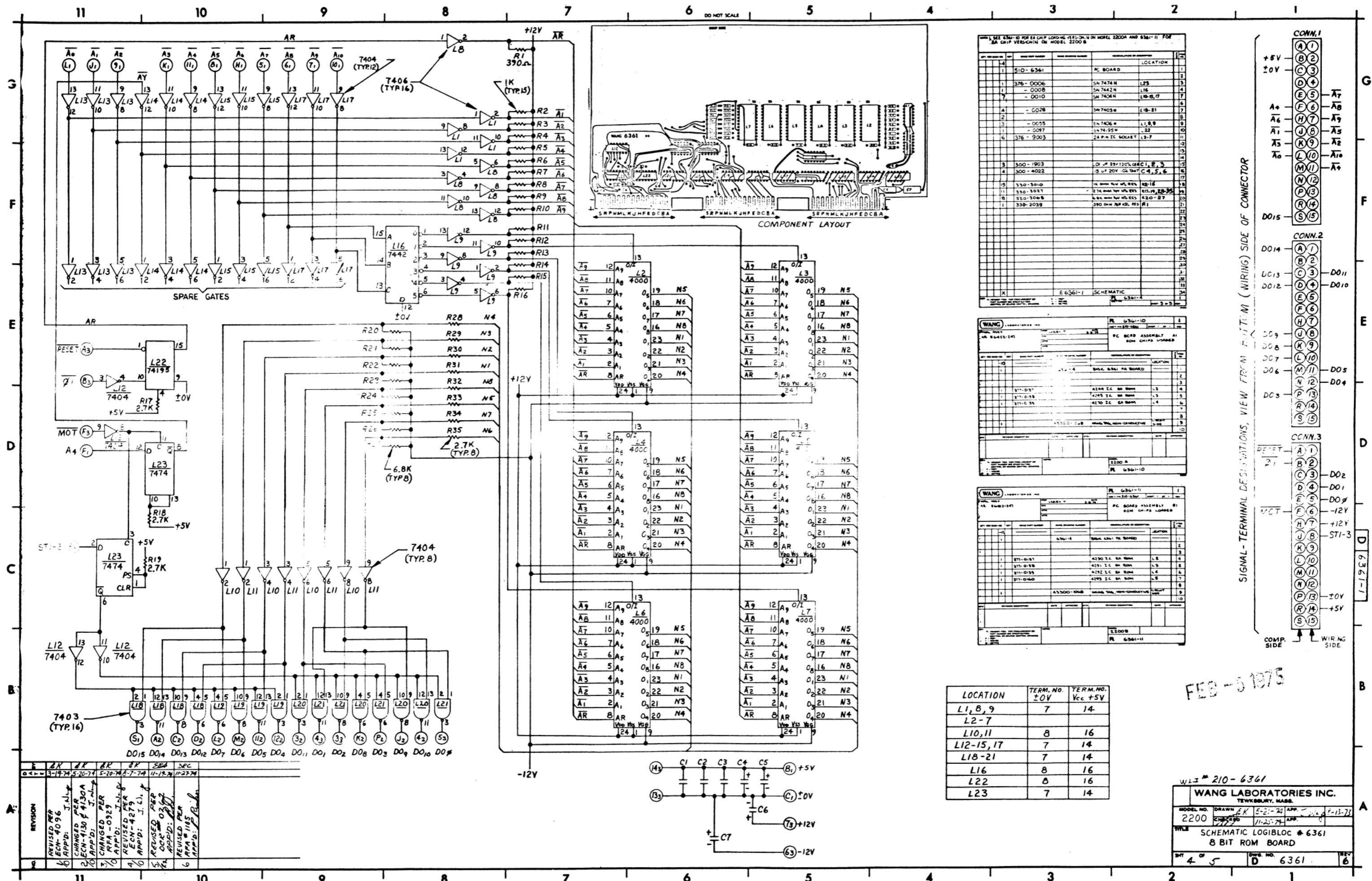
NO.	REVISION	D A T E	EK	ER	EW	ER
1/0	REV PER ECA <sup>13</sup> RFA-0330 APPD:	8-17-73	REV PER ECA <sup>13</sup> RFA-0330 APPD:	2-21-74	10/2/74	2-25-75
2/0	REV PER ECN 4039 APPD: J.L.J.					
3	REV PER ECA <sup>12</sup>					
	/ #4388 10/25/74 APPD: J.L.J.					
4/0	REV PER RFA- 1336 APPD: J.L.J.					

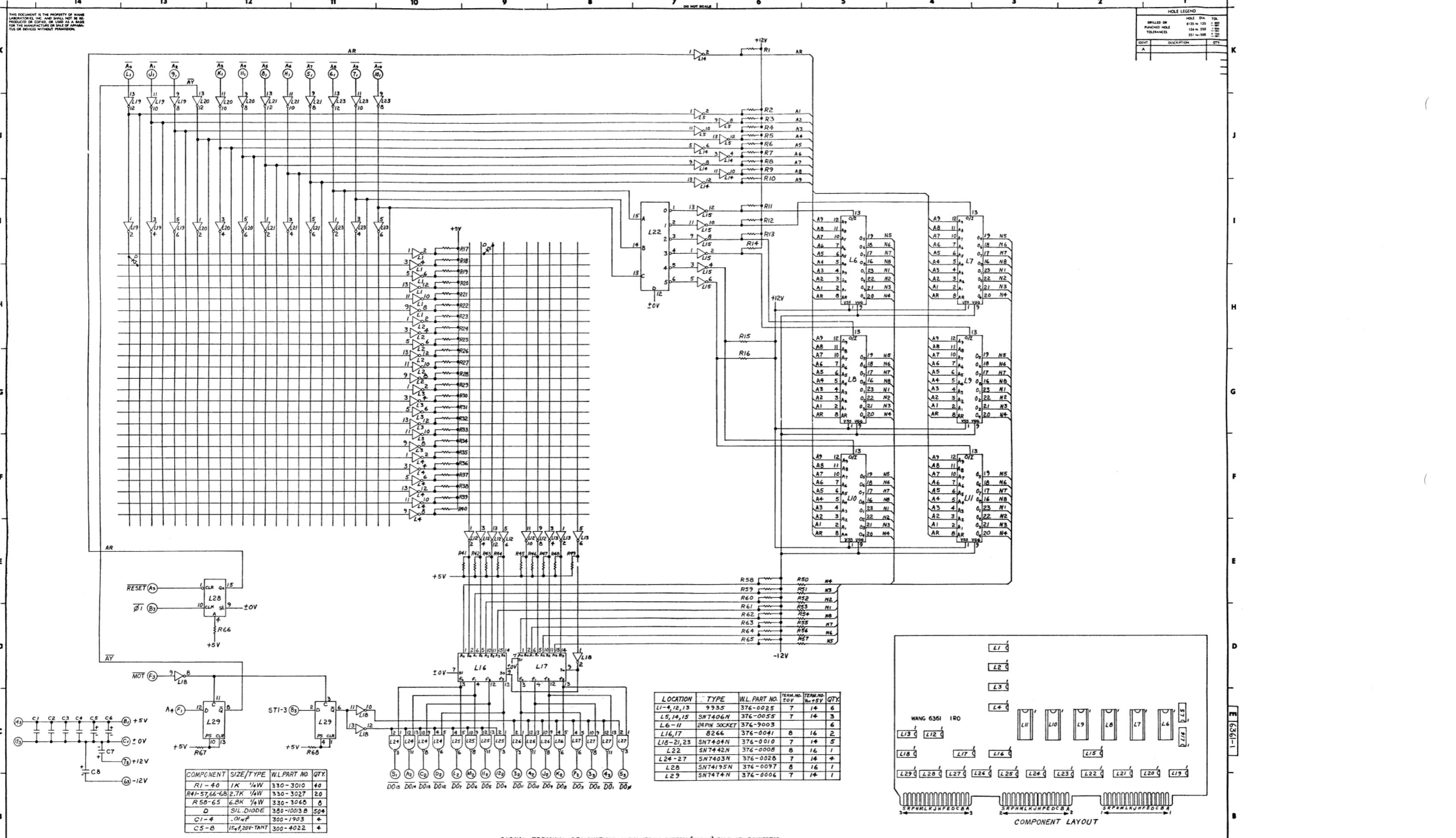
<u>380-1001</u>	<u>7</u>	<u>76</u>	<u>SIL. DIODE</u>	<u>48</u>
<u>325-2413</u>	<u>6</u>	<u>17</u>	<u>OAK SWITCH(SW64-79)</u>	<u>7/16" SPST</u>
<u>325-2405</u>	<u>5</u>	<u>59</u>	<u>OAK SWITCH</u>	<u>1/2" SPST</u>
<u>325-2407</u>	<u>4</u>	<u>5</u>	<u>OAK SWITCH</u>	<u>1/2" SPDT</u>
<u>370-0002</u>	<u>3</u>	<u>2</u>	<u>LAMP</u>	<u>1762 CLEAR</u>
<u>654-1205</u>	<u>2</u>	<u>REF</u>	<u>GROMMET</u>	<u>1/2 I.D. - 3/4 H</u>
<u>220-0101</u>	<u>1</u>	<u>REF</u>	<u>CABLE. ASSY.</u>	<u>DWG. # C-64</u>
WANG PART NO.	ITEM	QTY.	NAME	MATERIAL
				DESCRIP

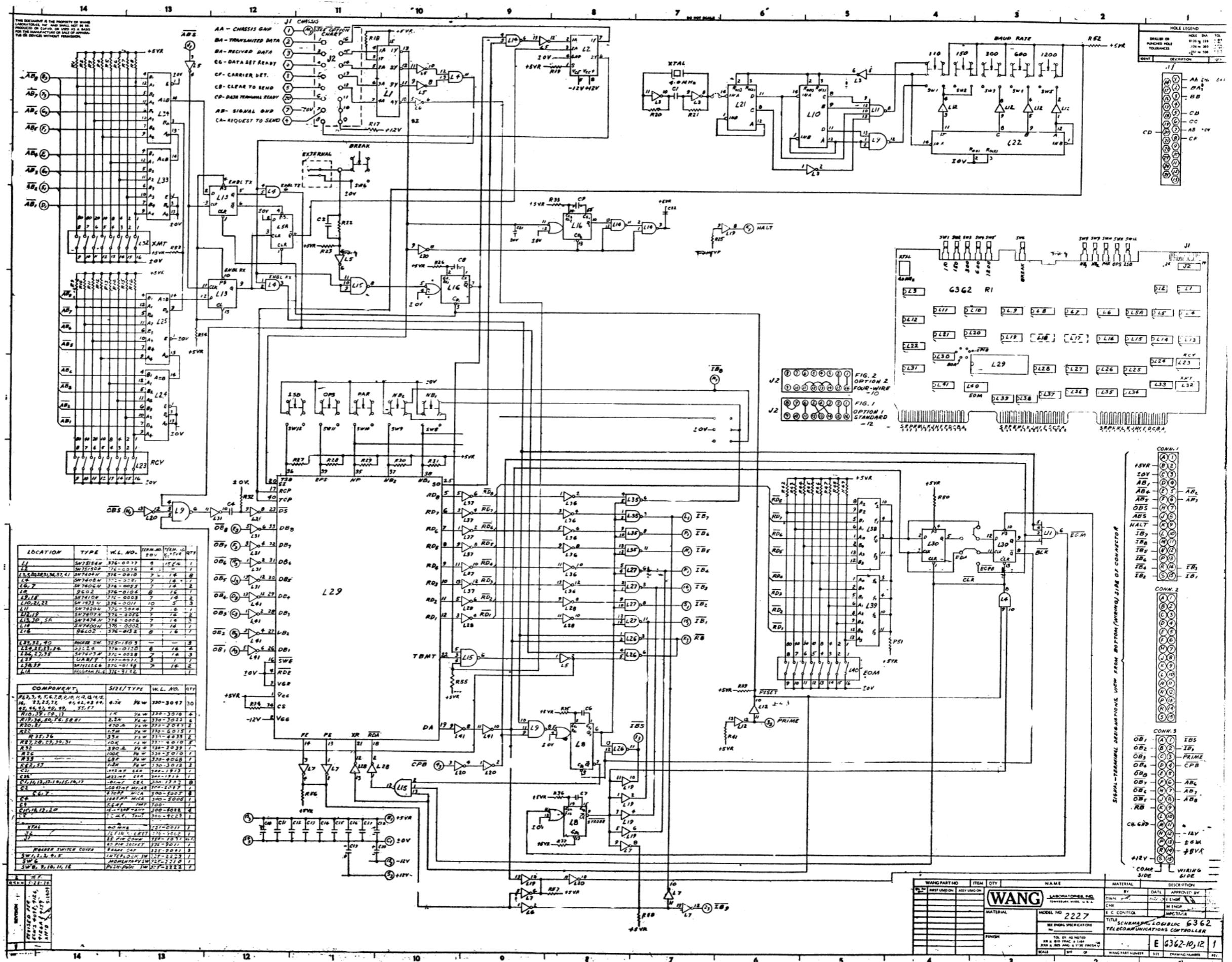
IDENT	QTY	NAME	MATERIAL	DESCRIPTION
TOL. EX. AS NOTED XXX ±.010    FRAC. ±1/64 XXX ±.005    ANG. ±0°30'		 <b>WANG LABORATORIES, INC.</b> TEWKSBURY, MASS. U. S. A.	DR	DATE 6-11-73
FINISH: ✓			CHK	DATE 2-26-75
MATERIAL			APPD	DATE 7-25-73
MODEL No. 2215			W.O. No.	SCALE
<b>TITLE</b> SCHEMATIC LOGIBLOC 2200 KEYBOARD #6348				
FINISH		210 - 6348	4	6348
Sheet 4 of		PART NUMBER	REV	DRAWING NUMBER

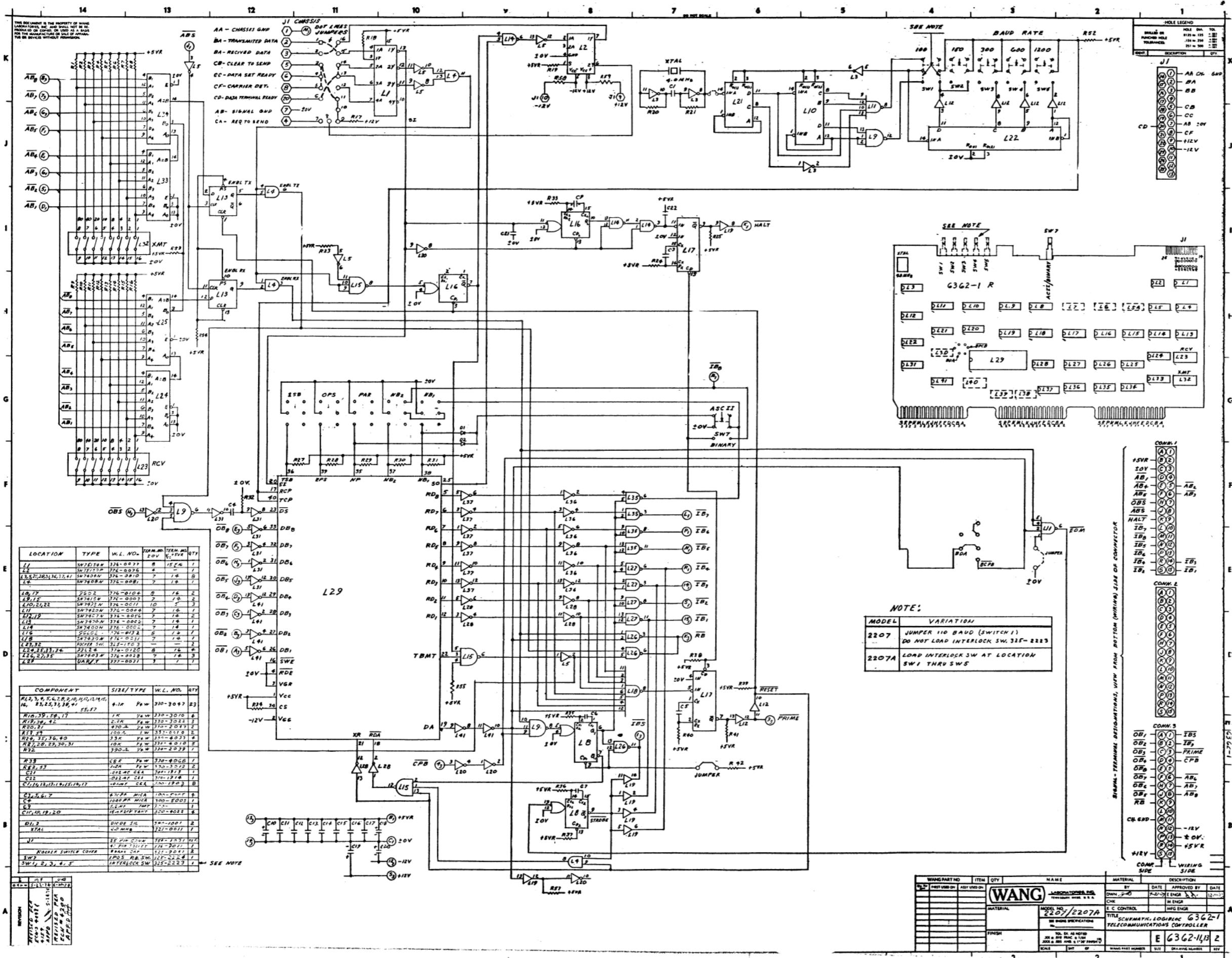




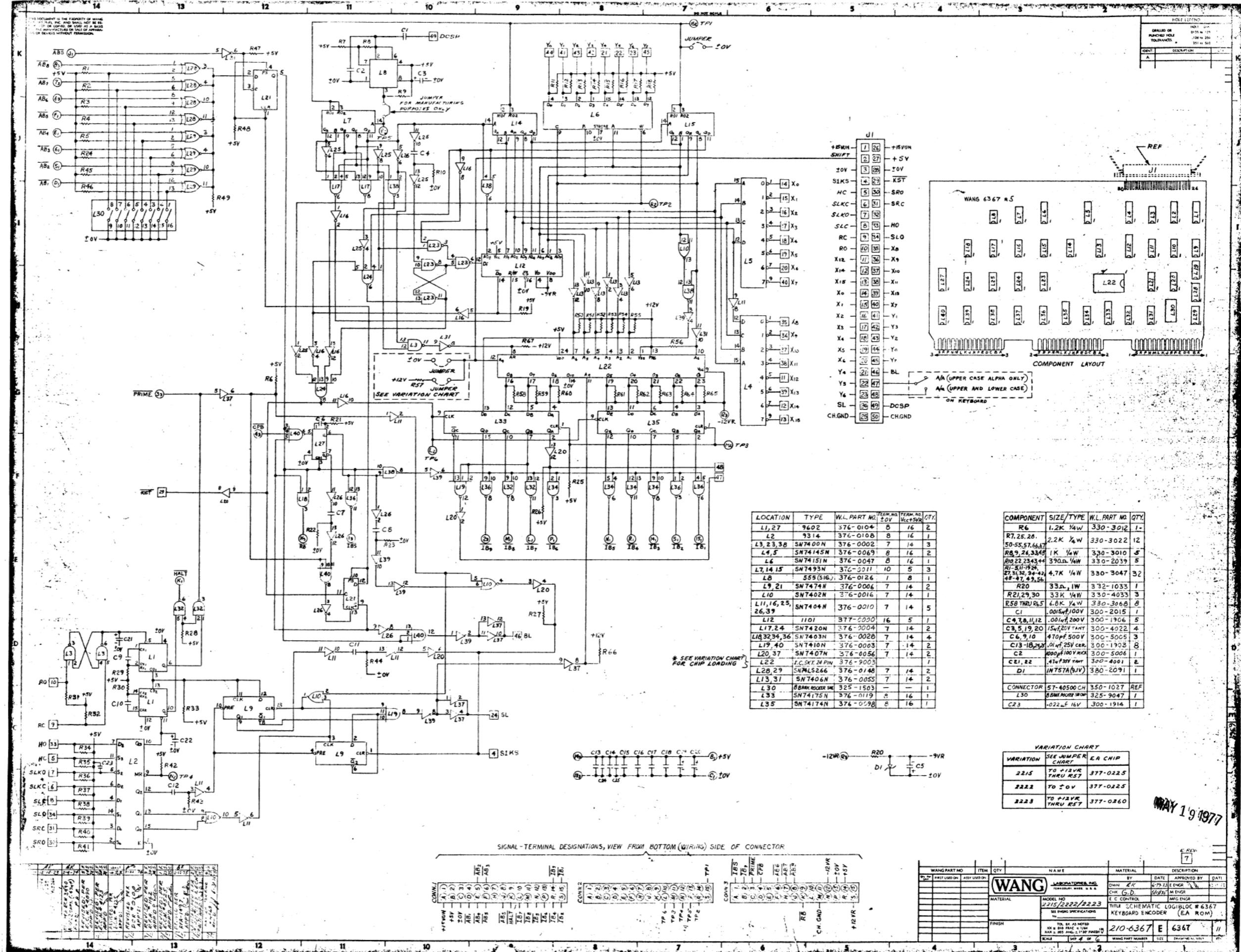


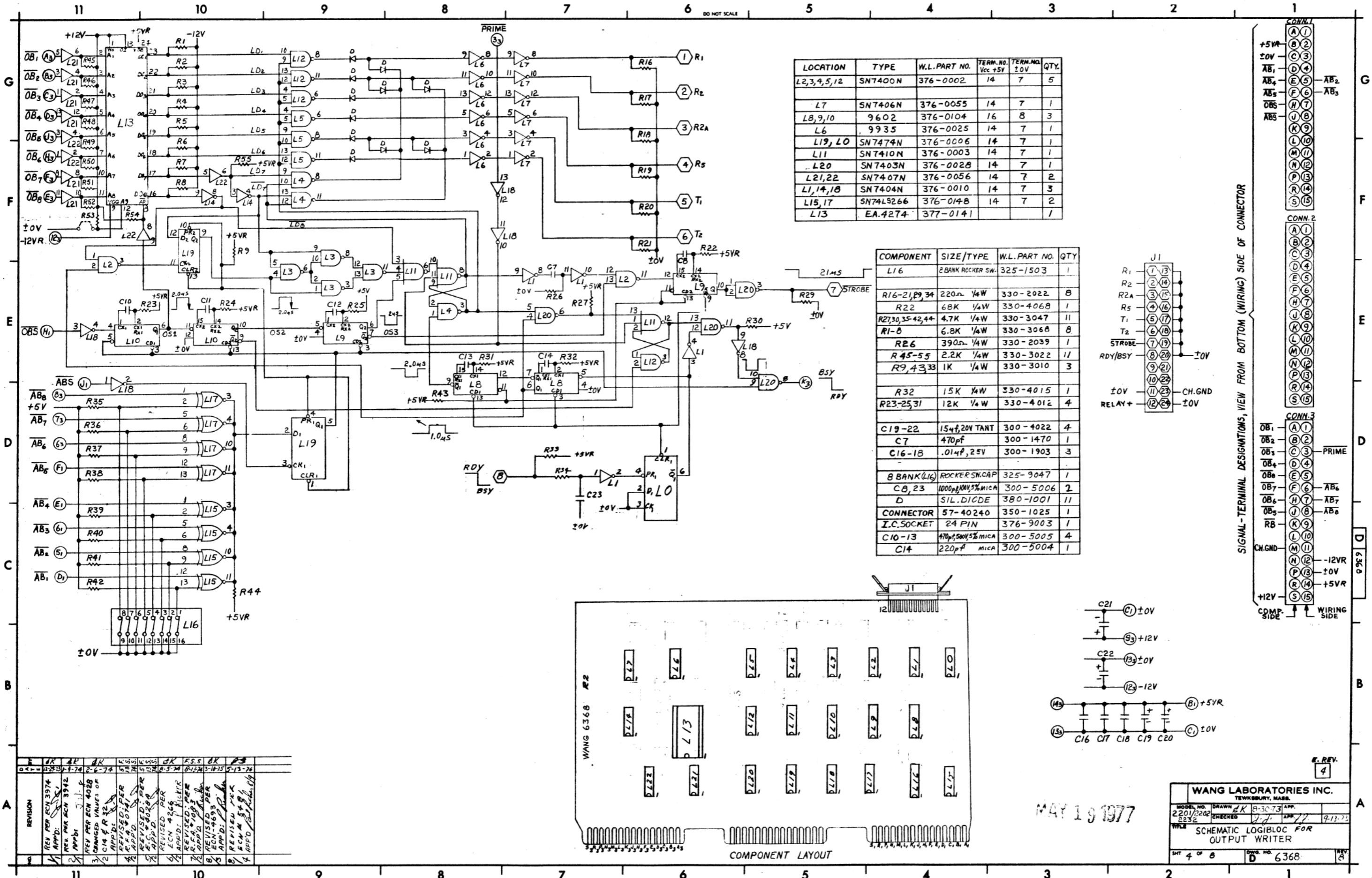






WANG PART NO.	ITEM QTY	NAME	MATERIAL	DESCRIPTION
2207/2207A	1	WANG	1	DATE APPROVED BY DATE
			1	12-25 ENGR D.R. 10-11-72
			2	CHE MFG ENGR
			3	E.C. CONTROL
			4	RE ISSUE SPECIFICATION
			5	TITLE: SCHEMATIC LOGIC FOR G362-1
			6	TELECOMMUNICATIONS CONTROLLER
			7	SCALE: 1:10
			8	WANG PART NUMBER
			9	SIZE DRWING NUMBER
			10	REV



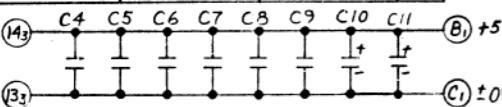


11 10 9 8 7 6 DO NOT SCALE 5 4 3 2 1

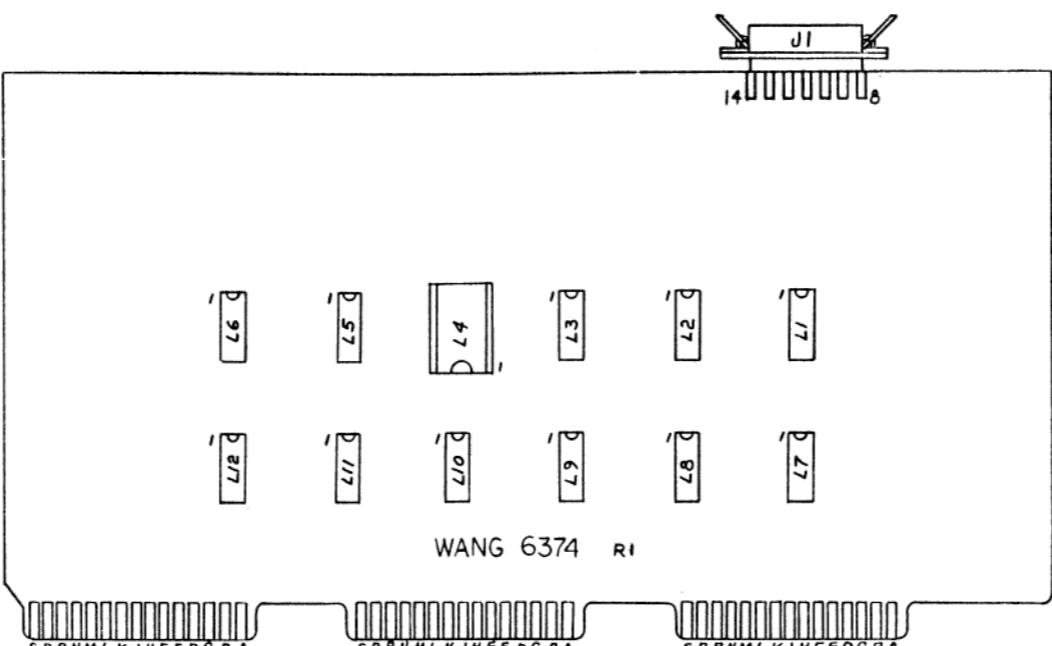
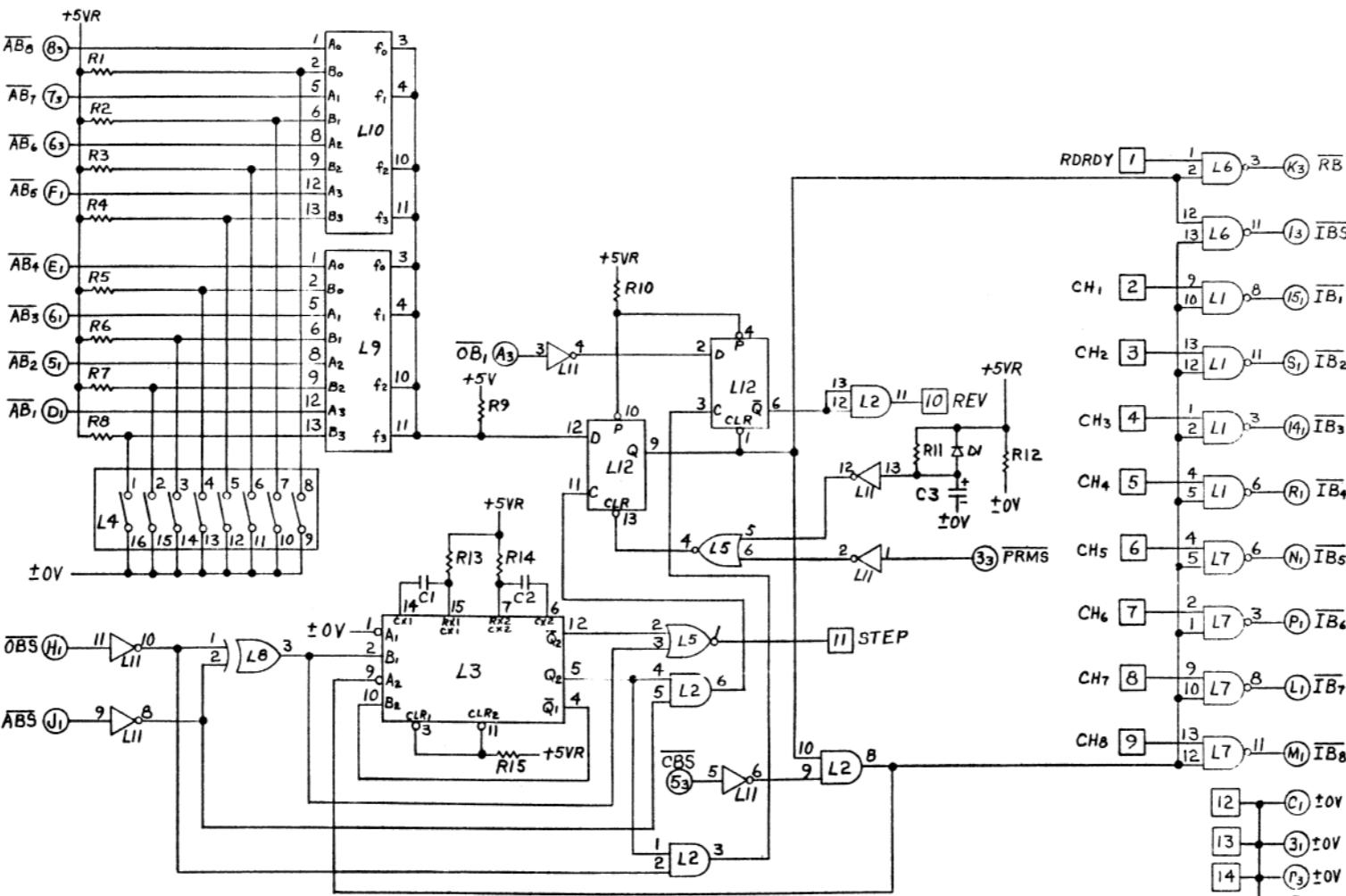
G

G

COMPONENT	SIZE/TYPE	WL.PART NO.	QTY.
R1-8,10,11,15	4.7K 1/4W	330-3047	11
R9	1.5K 1/4W	330-3015	1
R12	180Ω 1/4W	330-2018	1
R13,14	10K 1/4W	330-4010	2
C1,2	220pf CER.	300-1220	2
C3	8.24μF 20V TANT.	300-4028	1
C4 - 9	.05μF 20V TANT.	300-1900	6
C10,11	15μF 20V, TANT.	300-4022	2
ROCKER SN. COVER	8BXRCKERPCAP	325-9047	1
D1	SIL. DIODE	380-1001	1
J1	CONN.14 PIN CH	350-1024	1



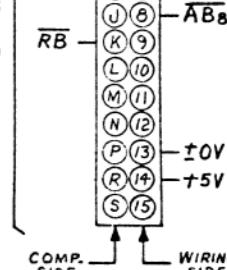
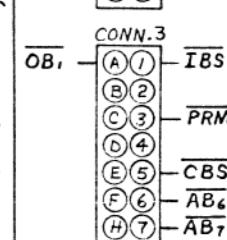
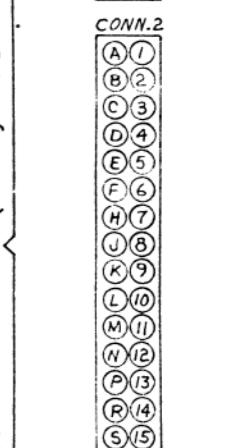
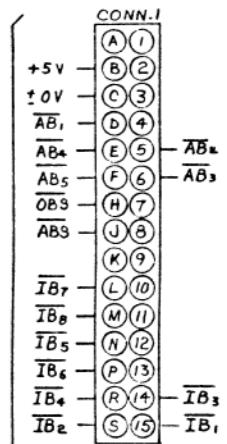
LOCATION	TYPE	WL.PART NO.	TERM NO. ±0V	TERM NO. Vcc+5V	QTY.
L1,6,7	SN7403N	376-0028	7	14	3
L2	SN7408N	376-0081	7	14	1
L3	SN74123N	376-0080	8	16	1
L4	8 BANK ROCKERS	325-1503			1
L5	SN7402N	376-0016	7	14	1
L8	SN7486N	376-0036	7	14	1
L9,10	SN745L266	376-0148	7	14	2
L11	SN7414N	376-0139	7	14	1
L12	SN7474N	376-0006	7	14	1



WANG 6374 RI

REV	6K
	0 < t < 1-1/4
	- REV PER ECN 374-2
	APPD

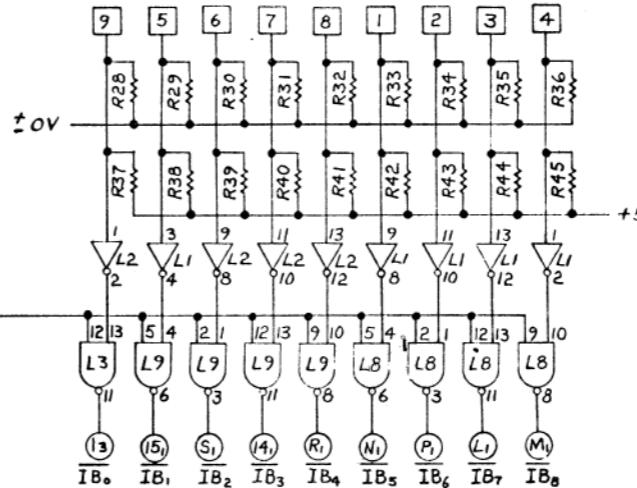
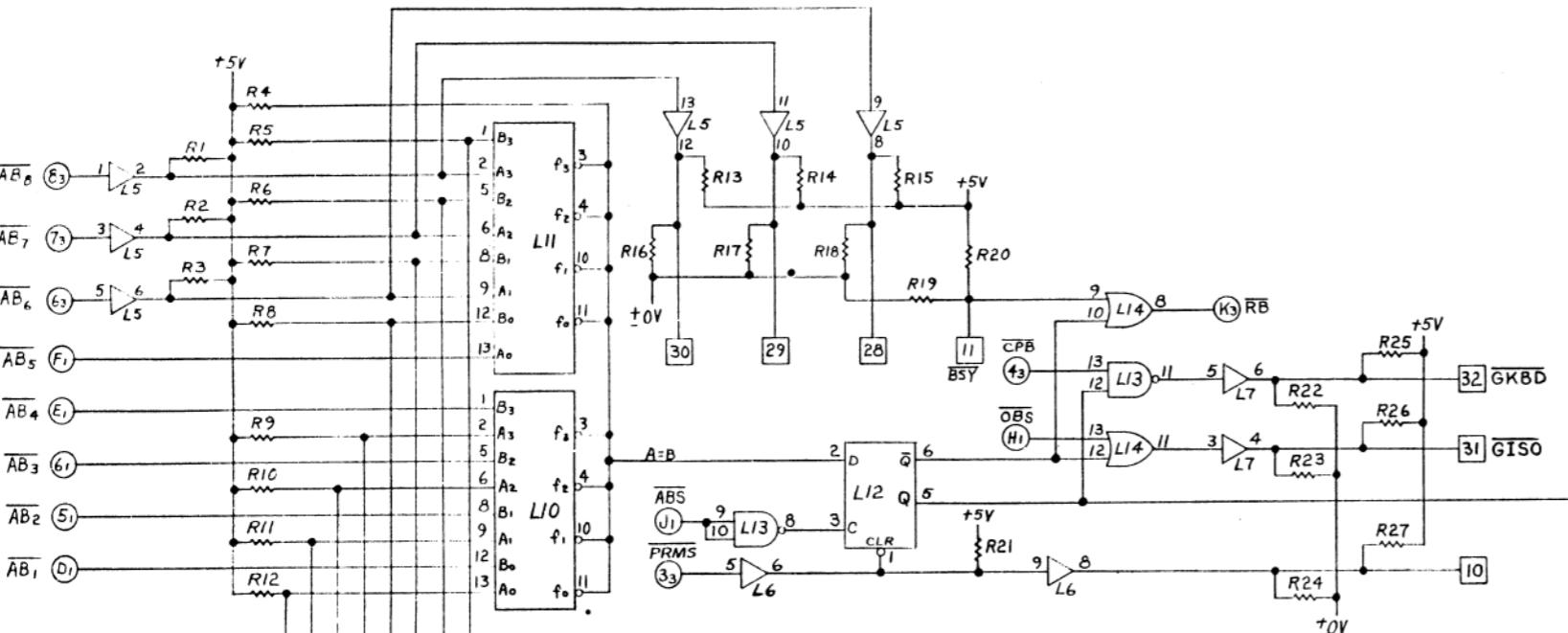
WANG LABORATORIES INC. TEWKSBURY, MASS.			
MODEL NO.	DRAWN	6K	9-19-73 APP. 10-2-73
2203 CHECKED 80H APP. 13.0'H			
TITLE	SCHEMATIC LOGIBLOC # 6374 HIGH SPEED PAPER TAPE READER	SHT OF	D 6374-1 REV. /



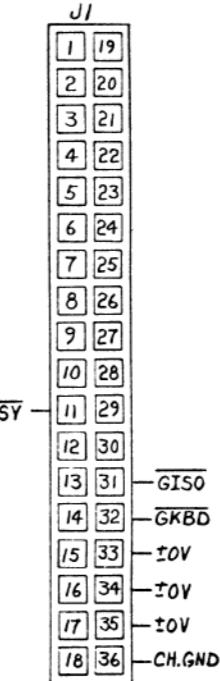
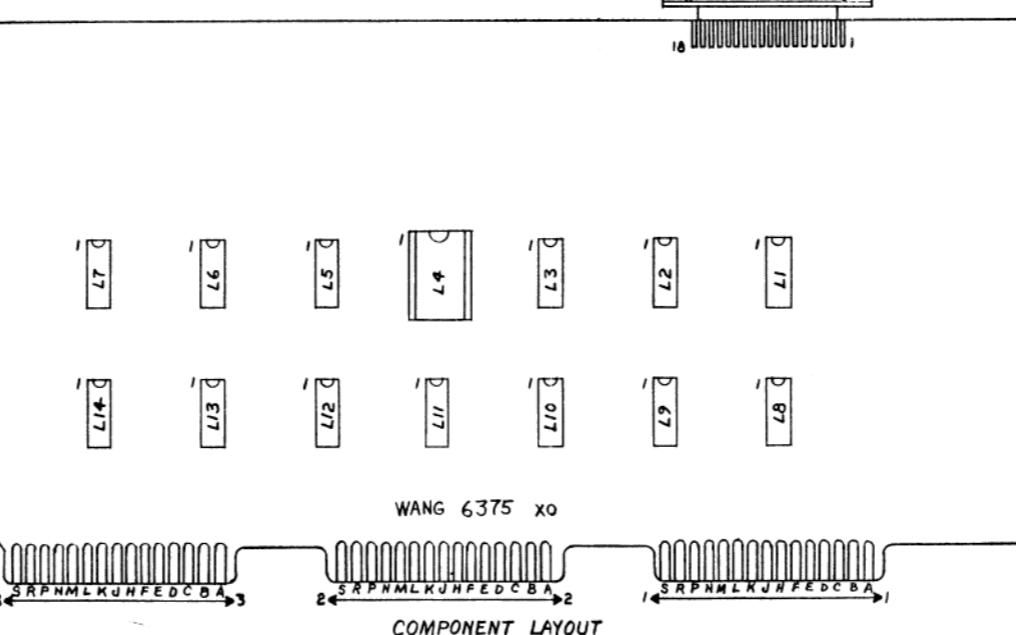
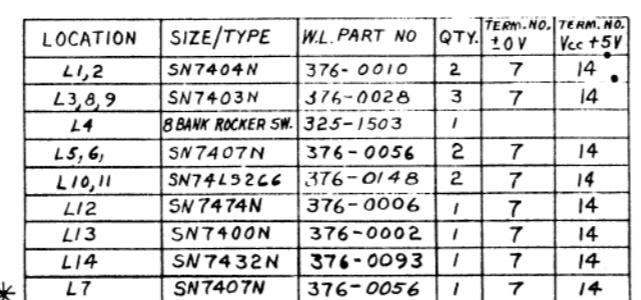
SIGNAL - TERMINAL DESIGNATIONS, VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR

CONN.1	CONN.2	CONN.3	CONN.4
(A) 1	(A) 1	(A) 1	OB1
(B) 2	(B) 2	(B) 2	(B) 2
(C) 3	(C) 3	(C) 3	(C) 3
(D) 4	(D) 4	(D) 4	(D) 4
(E) 5	(E) 5	(E) 5	(E) 5
(F) 6	(F) 6	(F) 6	(F) 6
(G) 7	(G) 7	(G) 7	(G) 7
(H) 8	(H) 8	(H) 8	(H) 8
(I) 9	(I) 9	(I) 9	(I) 9
(J) 10	(J) 10	(J) 10	(J) 10
(K) 11	(K) 11	(K) 11	(K) 11
(L) 12	(L) 12	(L) 12	(L) 12
(M) 13	(M) 13	(M) 13	(M) 13
(N) 14	(N) 14	(N) 14	(N) 14
(O) 15	(O) 15	(O) 15	(O) 15

COMP. SIDE WIRING SIDE

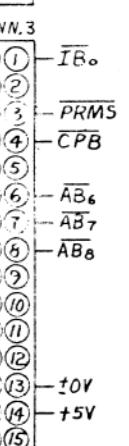
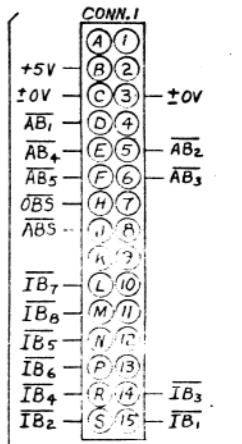


COMPONENT	TYPE	W.L. PART NO	QTY.
R1,2,3,21	180 $\mu$ $\frac{1}{4}$ W	330-2018	4
R4-12	1K $\frac{1}{4}$ W	330-3010	9
R13-1525-27,54-61	2.2K $\frac{1}{4}$ W	330-3022	14
R16-1822-24,46-53	3.3K $\frac{1}{4}$ W	330-3033	14
R19,28-36	330 $\mu$ $\frac{1}{4}$ W	330-2033	10
R20,37-45	220 $\mu$ $\frac{1}{4}$ W	330-2022	10
C1-7	.014 $\mu$ 25V, CER.	300-1903	7
C8,9	154 $\mu$ , 20V, TANT	300-4022	2
L4	BBANK ROCKERSWAP	325-9047	1
CONNECTOR	57-40360	350-1038	1



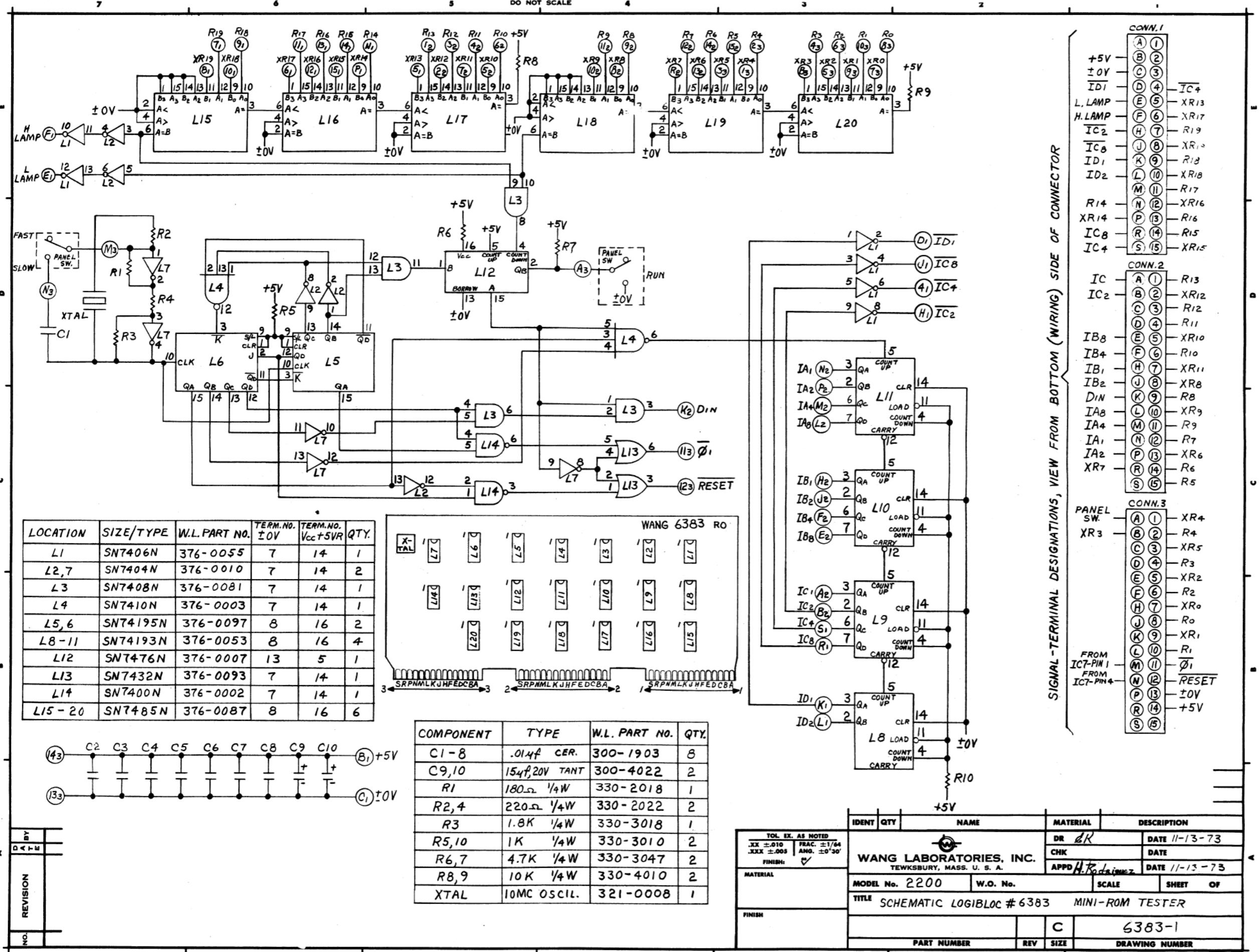
NOTES:  
1. 6375 FOR MODEL 2230 - FULL LOADED BOARD.  
\* 2. 6375-14 FOR MODEL 2214 - DO NOT LOAD LT.

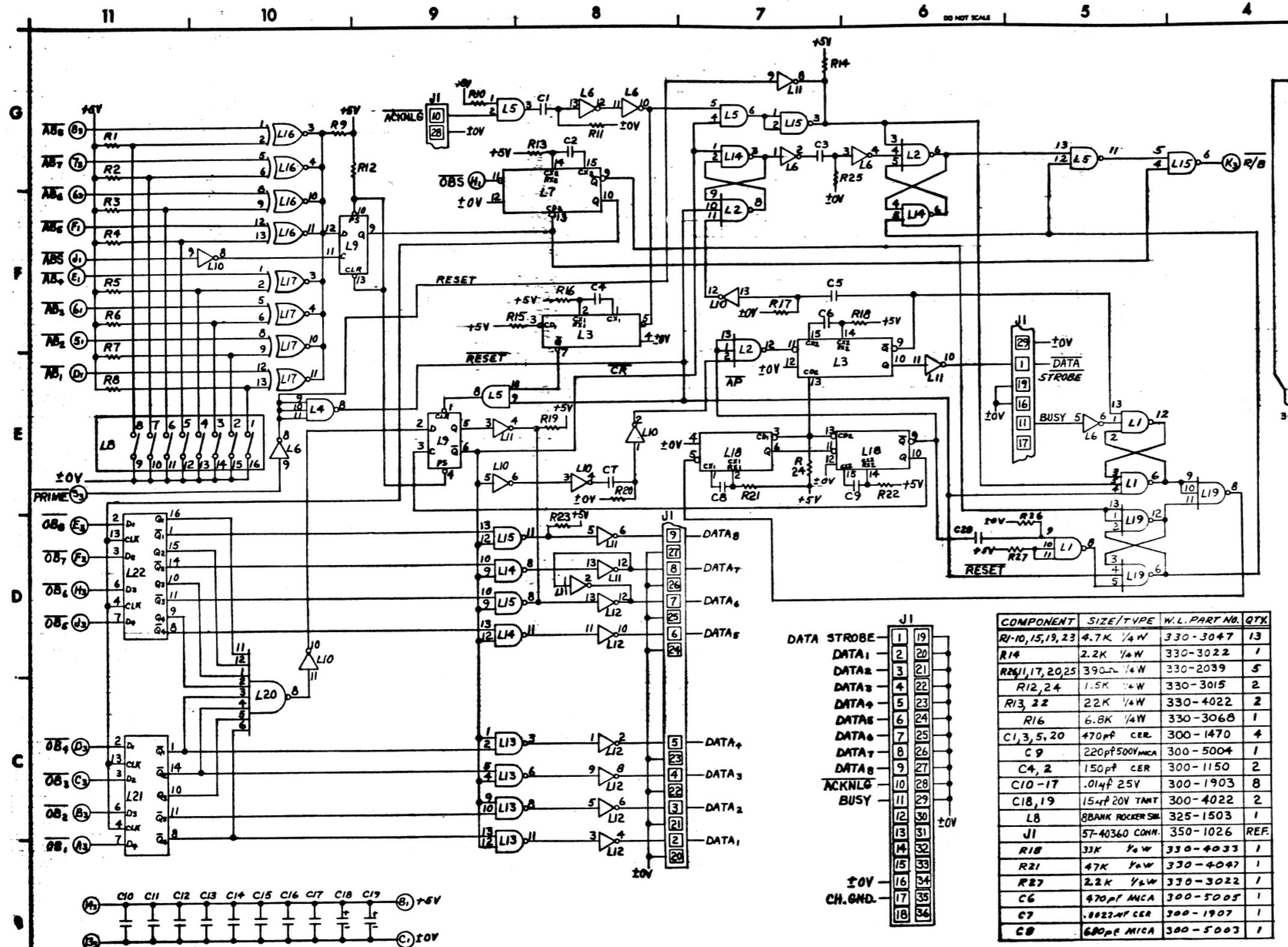
NO	REVISION	DATE	BY
1	REVISED E&N App'd:	3/9/42 T.S.J.	J.F.J.



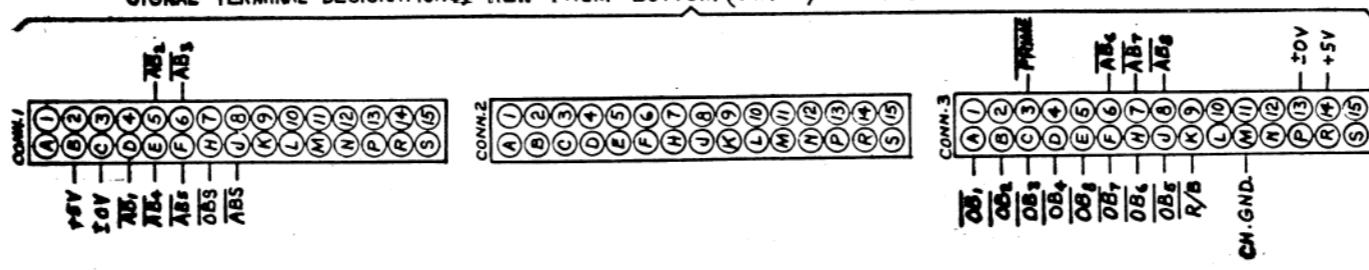
THE HISTORY OF THE CHURCH OF CHRIST IN CHINA

WANG LABORATORIES INC.			
TEWKSBURY, MASS.			
MODEL NO.	DRAWN BY	DATE	APP.
1/2230	JK	9-17-73	
CHECKED BY		1-15-73	APP. 7/27
SCHEMATIC LOGIBLOC #6375/6375-1			
DISK CONTROL			
OF	DWG. NO.	6375-1	





**SIGNAL-TERMINAL DESIGNATIONS, VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR**



## **COMPONENT LAYOUT**

6379 R3

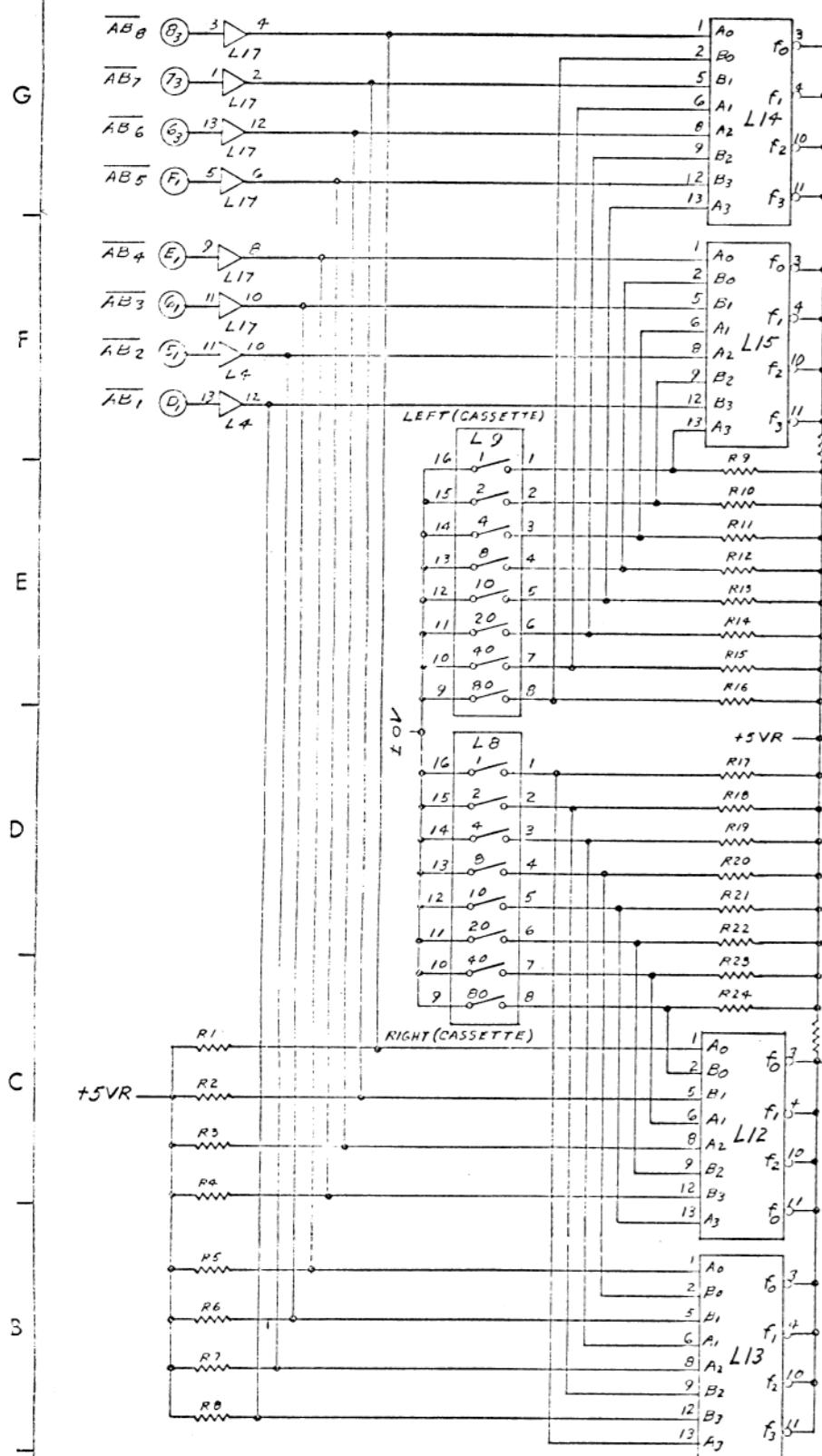
LOCATION	TYPE	WL.PART NO.	TERM.NO. 1 OV	TERM.NO. VECT+5VR	QTY.
L13,14	SN7400N	376-0002	7	14	2
L4,2,4,19	SN7410N	376-0003	7	14	4
L3,7,18	9602	376-0104	8	16	3
L5	SN7408N	376-0081	7	14	1
L6,10	SN7404N	376-0010	7	14	2
L9	SN7474N	376-0006	7	14	1
L11,12	SN7406N	376-0055	7	14	2
L15	SN7403N	376-0028	7	14	1
L16,17	T4L5266	376-0148	7	14	2
L20	SN7430N	376-0031	7	14	1
L21,22	SN74L75N	376-0151	12	5	2

	J1
DATA STROBE	1 19
DATA1	2 20
DATA2	3 21
DATA3	4 22
DATA4	5 23
DATA5	6 24
DATA6	7 25
DATA7	8 26
DATA8	9 27
ACKNLS	10 28
BUSY	11 29
	12 30
	13 31
	14 32
	15 33
	16 34
	17 35
	18 36
±OV	±OV
CH.GND.	

COMPONENT	SIZE/TYPE	W.L.	PART NO.	QTY
R1-10,15,19,23	4.7K $\frac{1}{4}$ W	330-	3047	13
R14	2.2K $\frac{1}{4}$ W	330-	3022	1
R20,11,17,20,25	390 $\mu$ L $\frac{1}{4}$ W	330-	2039	5
R12,24	1.5K $\frac{1}{4}$ W	330-	3015	2
R13,22	22K $\frac{1}{4}$ W	330-	4022	2
R16	6.8K $\frac{1}{4}$ W	330-	3068	1
C1,3,5,20	470pf CER	300-	1470	4
C9	220pf 500V MICA	300-	5004	1
C4,2	150pf CER	300-	1150	2
C10-17	.014 $\mu$ f 25V	300-	1903	8
C18,19	154 $\mu$ f 20V TANT	300-	4022	2
L8	8BANK ROCKER SH.	325-	1503	1
J1	57-40360 CONN.	350-	1026	REF.
R18	33K $\frac{1}{4}$ W	330-	4033	1
R21	47K $\frac{1}{4}$ W	330-	4047	1
R27	2.2K $\frac{1}{4}$ W	330-	3022	1
C6	470pf ANCA	300-	5005	1
C7	.00224 $\mu$ f CER	300-	1907	1
C8	680pf MICA	300-	5003	1

WANG LABORATORIES INC.			
TEWKSBURY, MASS.			
MR.	SHAWN	K	10-24-73
231	2231		APP. ✓
41	2261	✓	1-1-74
SCHEMATIC LOGIBLOC # 6379			
HIGH SPEED LINE PRINTER			
DRAWN NO. D 6379-1			

11 10 9 8 7 6 DO NOT SCALE 5 4 3 2 1



LOCATION	TYPE	W.L. No.	TERM.NG	TERM.NG	+5VR	QTY
L1,2,3,7	SN7403N	376-0028	7	14	4	
L4,5,17	SN7407N	376-0056	7	14	3	
L5,9	ROCKER SW.	325-1503	—	—	2	
L10	SN7408N	376-0081	7	14	1	
L11	SN7414N	376-0006	7	14	1	
L12,L13,L15	3L42	376-0040	7	14	4	
L16	SN7404N	376-0010	7	14	1	
L26	SN7409N	376-0085	7	14	1	

\* OR SN74516N WL376-0168 DEPENDING ON AVAILABLE SUPPLY

ABS

J1

L16

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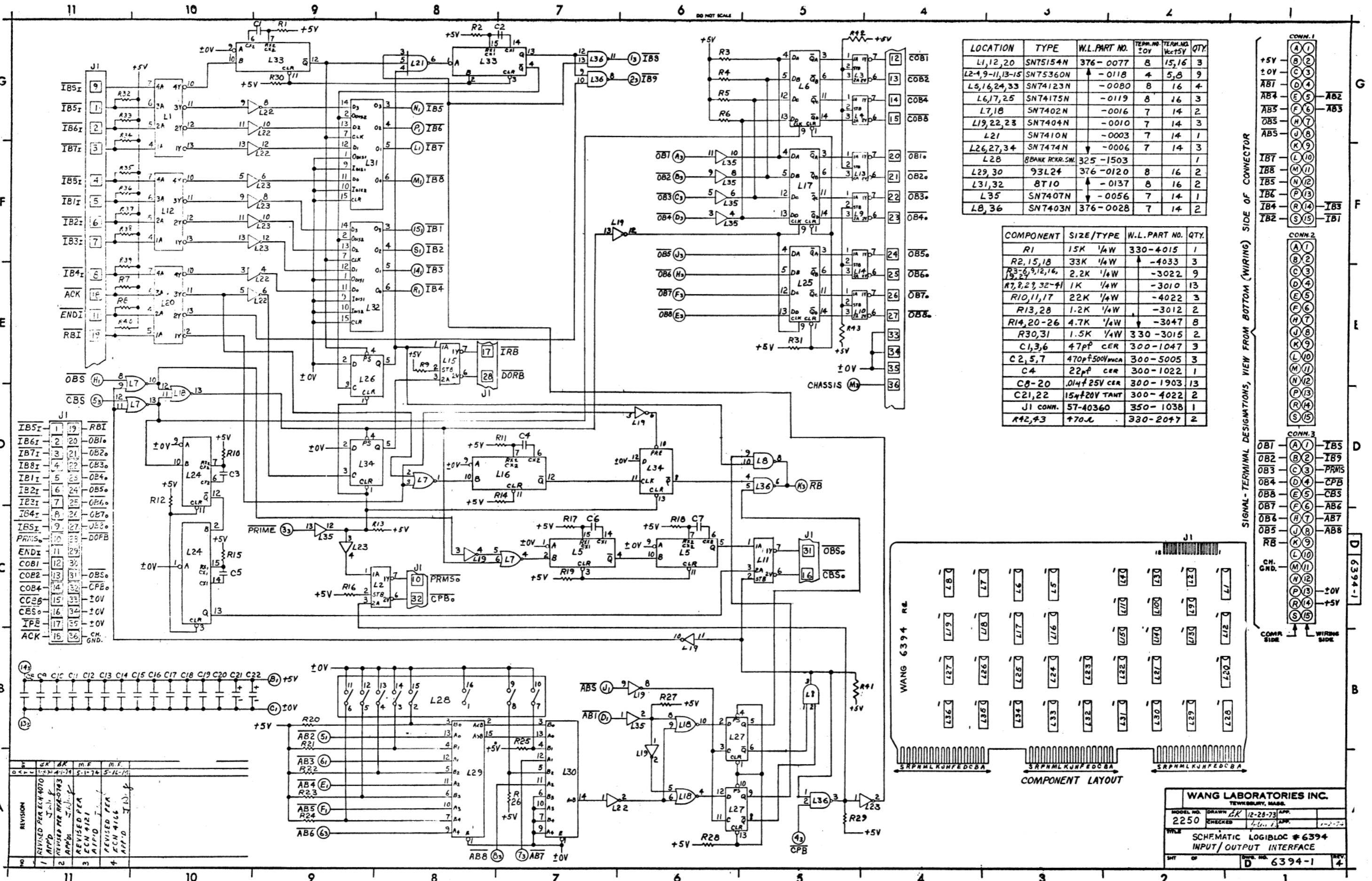
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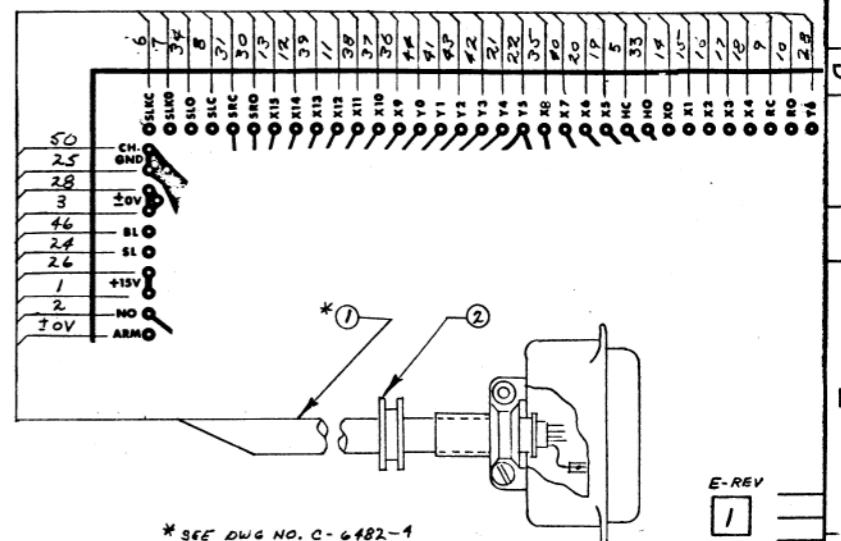
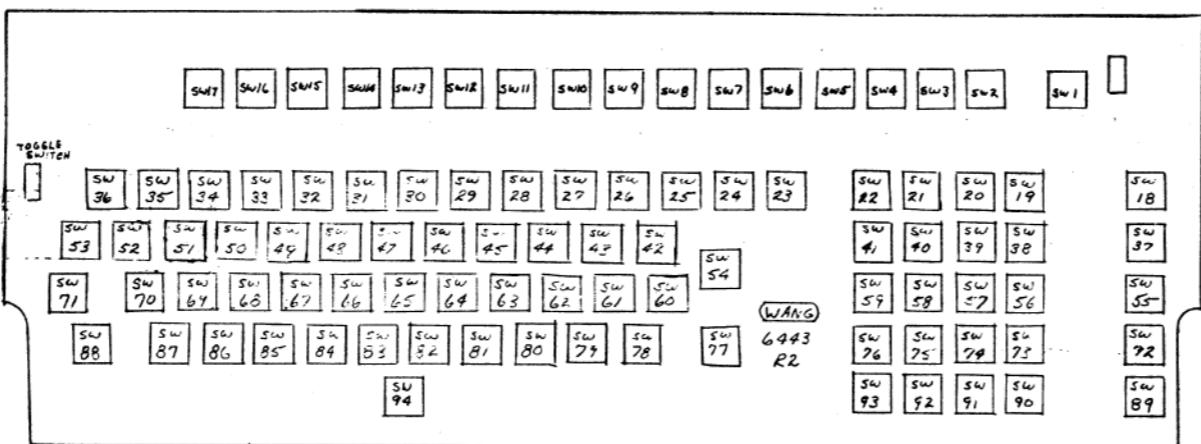
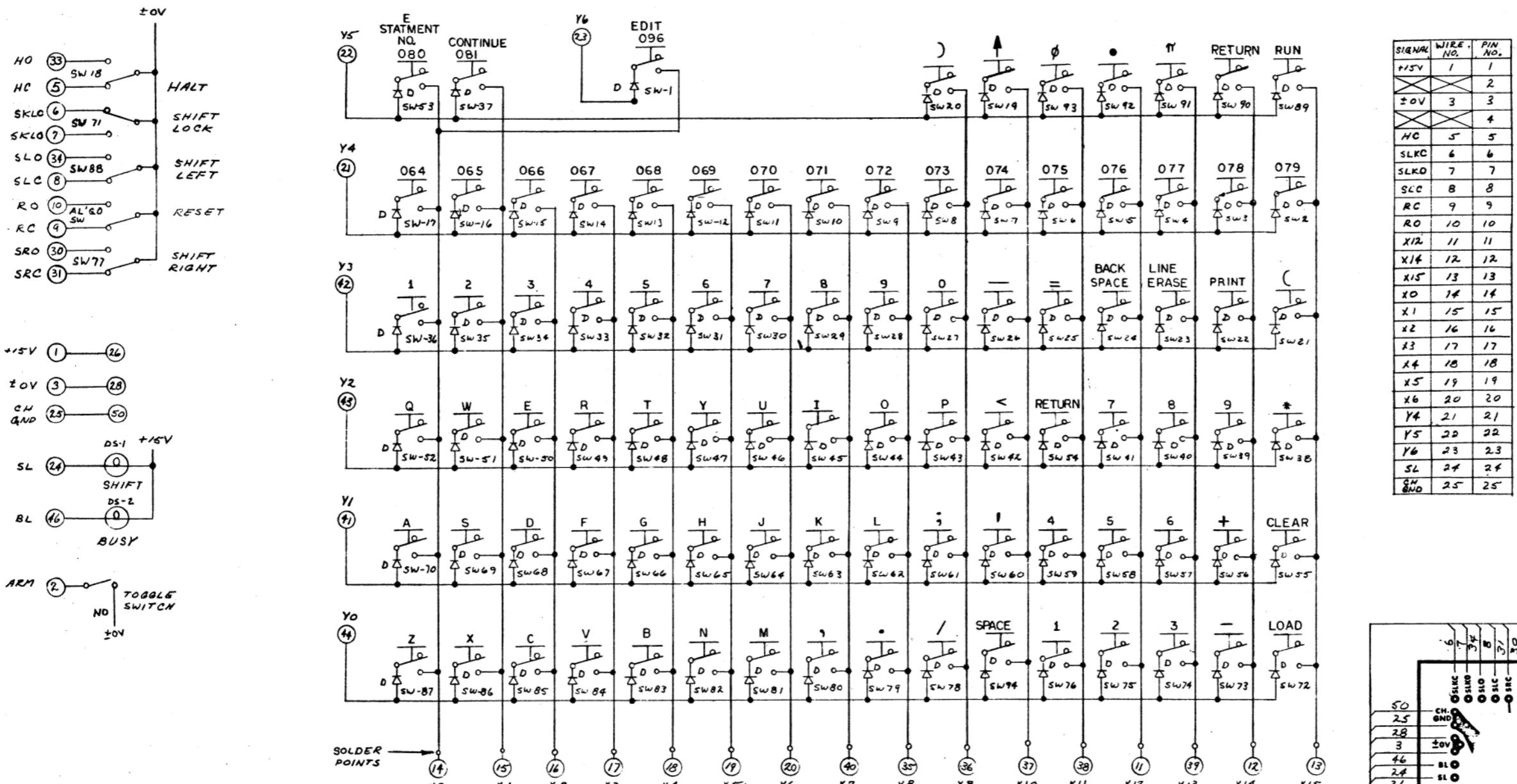
1

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#### **ROLE LEGEND**

HOLE DIA.  
.0135 to .125  
.126 to .250  
.251 to .500

IDENT.	DESCRIPTION	QTY.
A		



\* SEE DWG NO. C-6482-1

11

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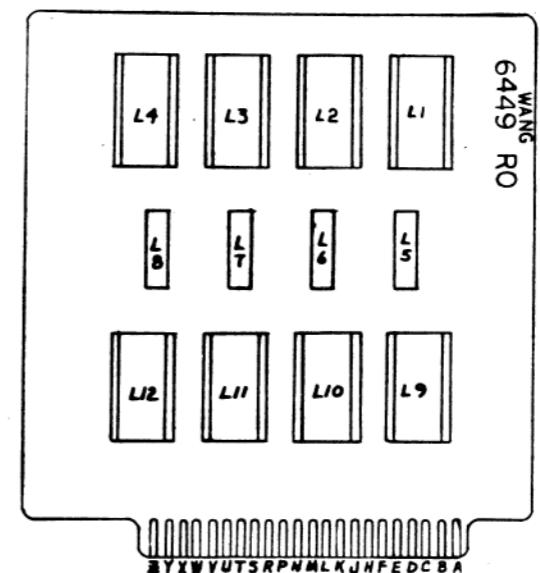
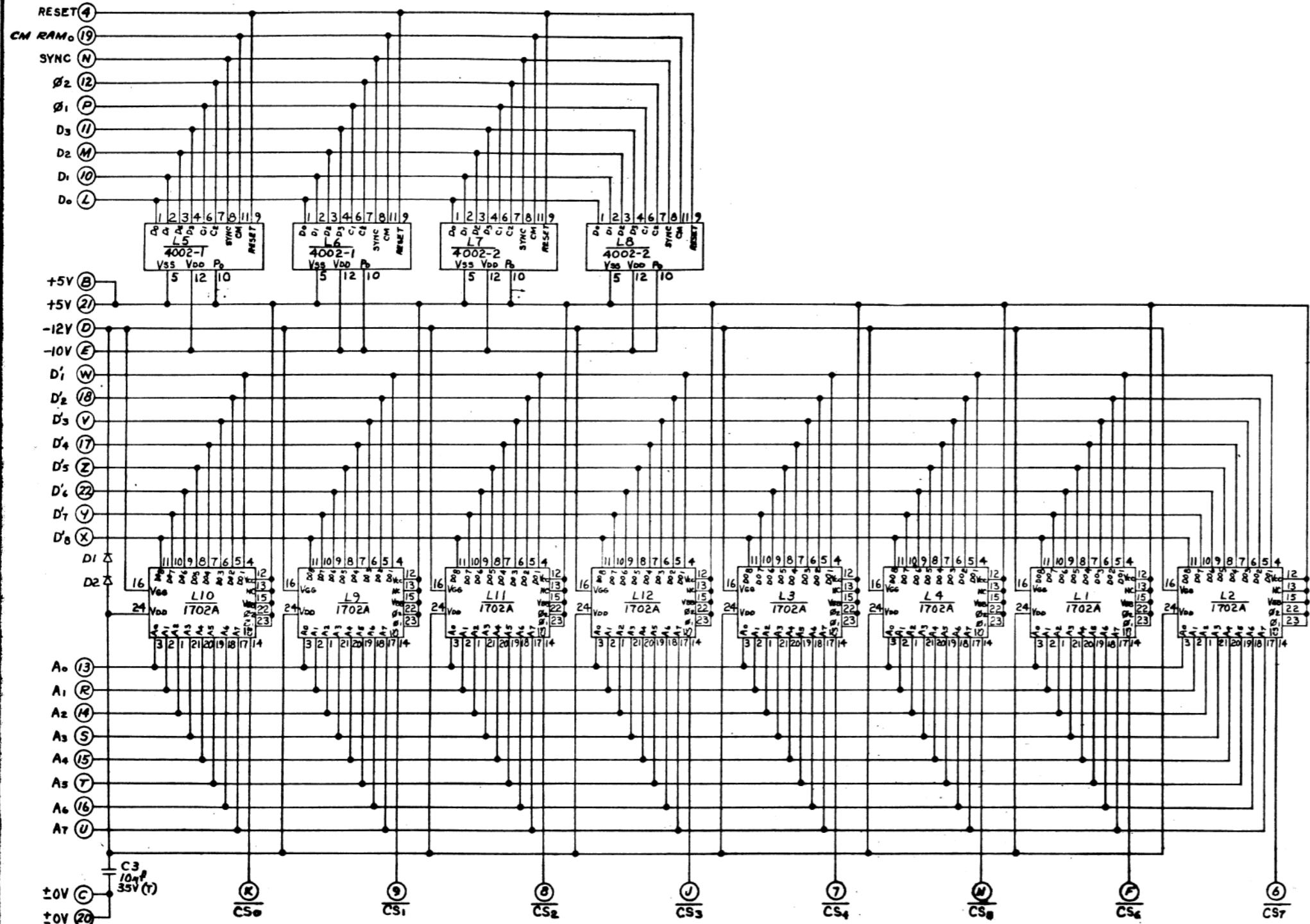
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DO NOT SCALE

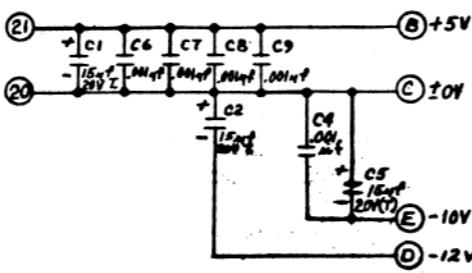


SIGNAL-TERM. DESIGNATIONS, VIEW FROM BOTTOM(WRMS) SIDE OF CONN.	
+SVR	A(1)
±0V	B(2)
-12V	C(3)
-10V	D(4)
-10V	E(5)
-10V	F(6)
-10V	G(7)
-10V	H(8)
-10V	I(9)
-10V	J(10)
-10V	K(11)
-10V	L(12)
-10V	M(13)
-10V	N(14)
-10V	O(15)
-10V	P(16)
-10V	Q(17)
-10V	R(18)
-10V	S(19)
-10V	T(20)
-10V	U(21)
-10V	V(22)
-10V	W(23)
-10V	X(24)
RESET	CM RAM
CM RAM	SYNC
D <sub>1</sub>	D <sub>2</sub>
D <sub>3</sub>	D <sub>4</sub>
D <sub>5</sub>	D <sub>6</sub>
D <sub>7</sub>	D <sub>8</sub>
D <sub>9</sub>	D <sub>10</sub>
D <sub>11</sub>	D <sub>12</sub>
D <sub>13</sub>	D <sub>14</sub>
D <sub>15</sub>	D <sub>16</sub>
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D <sub>19</sub>	D <sub>20</sub>
D <sub>21</sub>	D <sub>22</sub>
D <sub>23</sub>	D <sub>24</sub>

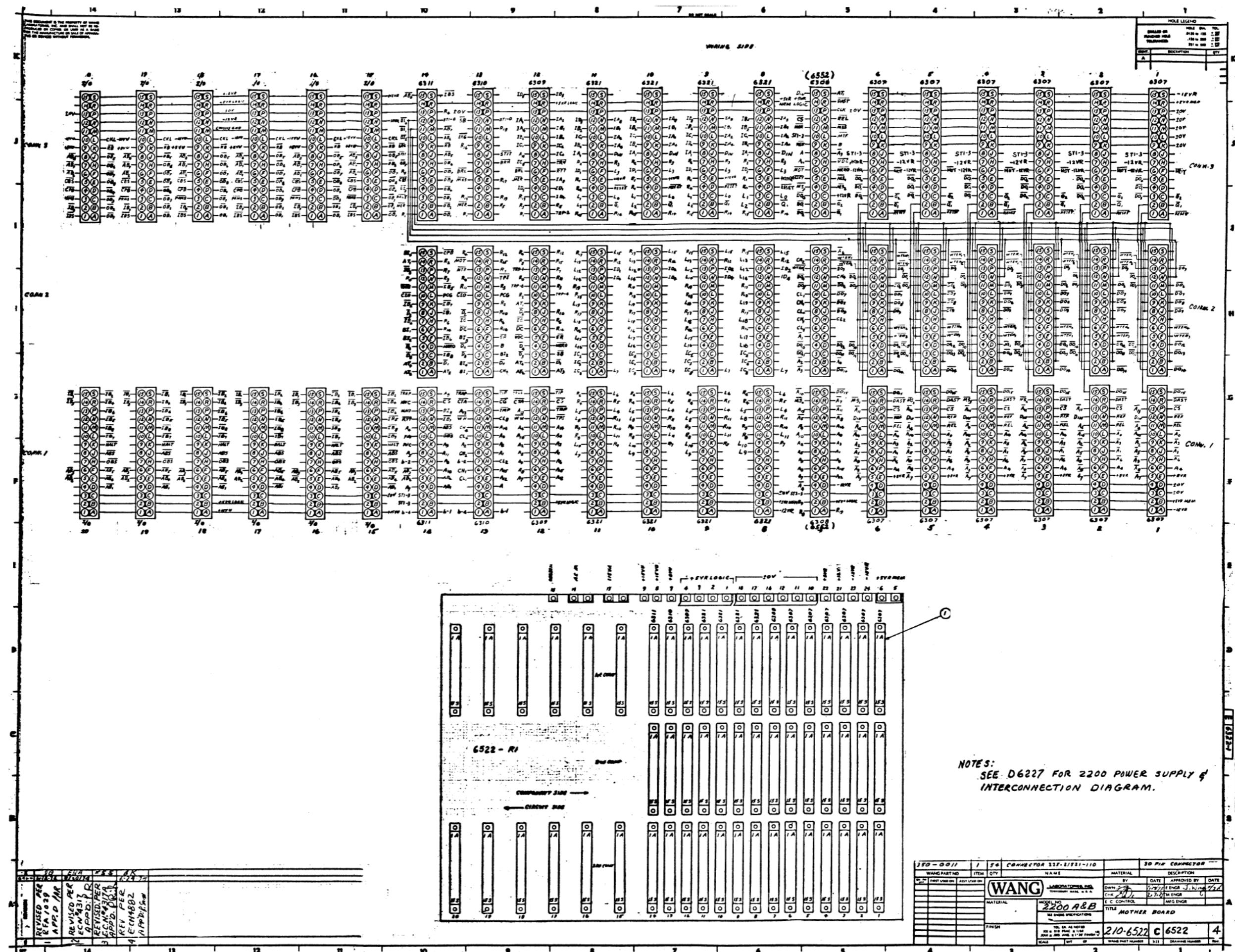
HOLE LEGEND		
DRILLED OR PUNCHED HOLE	HOLE DIA.	TOL.
.0125 to .125	.0125	±.005
.125 to .250	.125	±.005
.250 to .360	.250	±.005

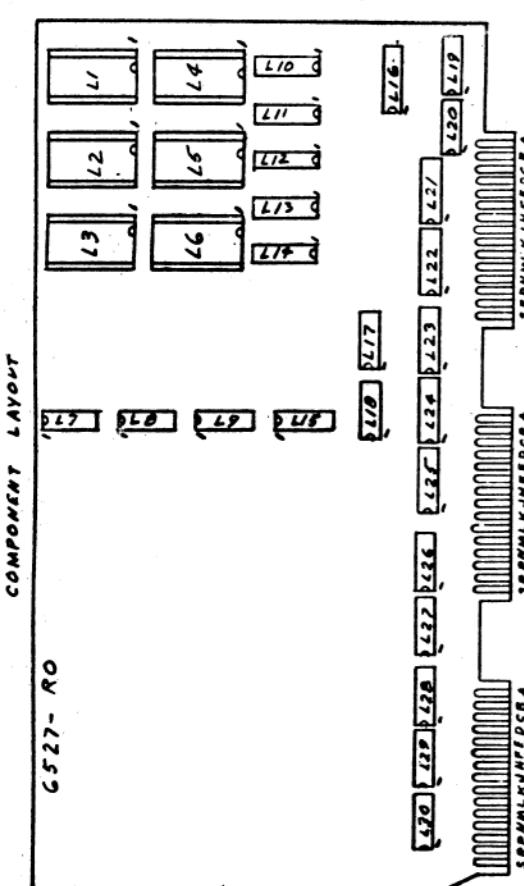
IDENT.	DESCRIPTION	QTY.
A		1

REV	6K	AL
0	1-6-73	
CHANGED APP DRAFT		
CHANGED APP RFA - 1992		
APPROV		
APPROV		



WANG PART NO.	ITEM	QTY.	NAME	MATERIAL	DESCRIPTION
22344/22444					
WANG					
LABORATORIES, INC.					
TEWKSBURY, MASS. U.S.A.					
MODEL NO.					
E.C. CONTROL					
SEE ENGR. SPECIFICATIONS					
FINISH					
TOL. IX. AS NOTED					
XX0 = .010 MAX. = ±.005					
XX0 = .005 MAX. = ±.005 FINISH					
SCALE					
SHT 4 of 5					
WANG PART NUMBER					
SIZE					
DRAWING NUMBER					
REV.					

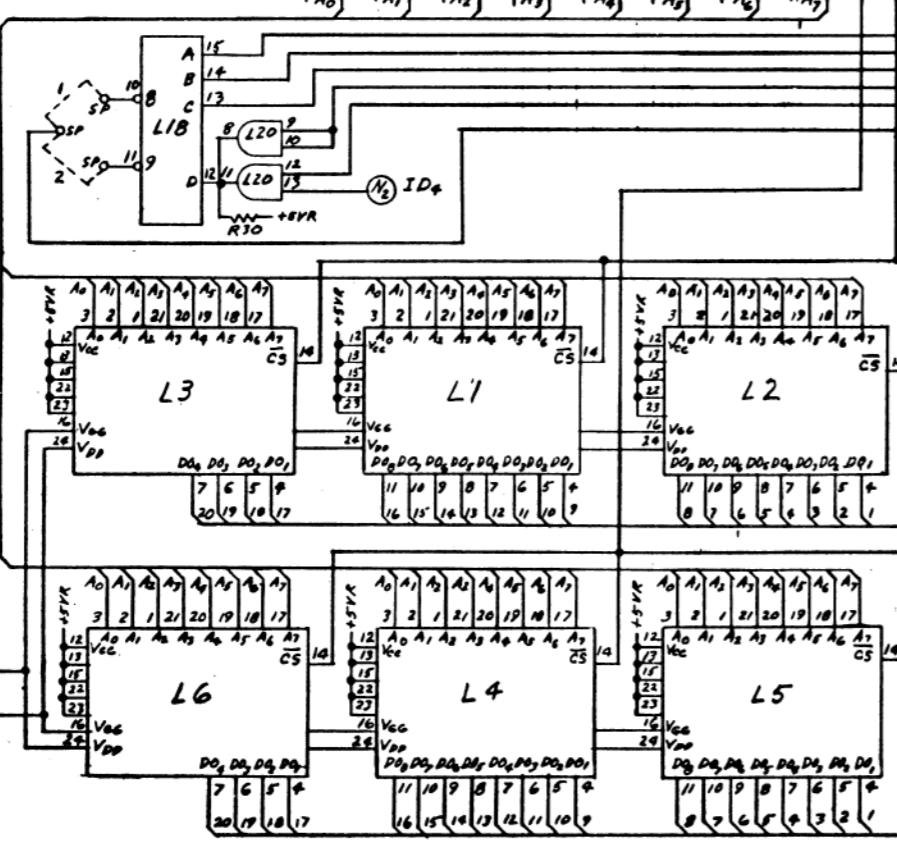




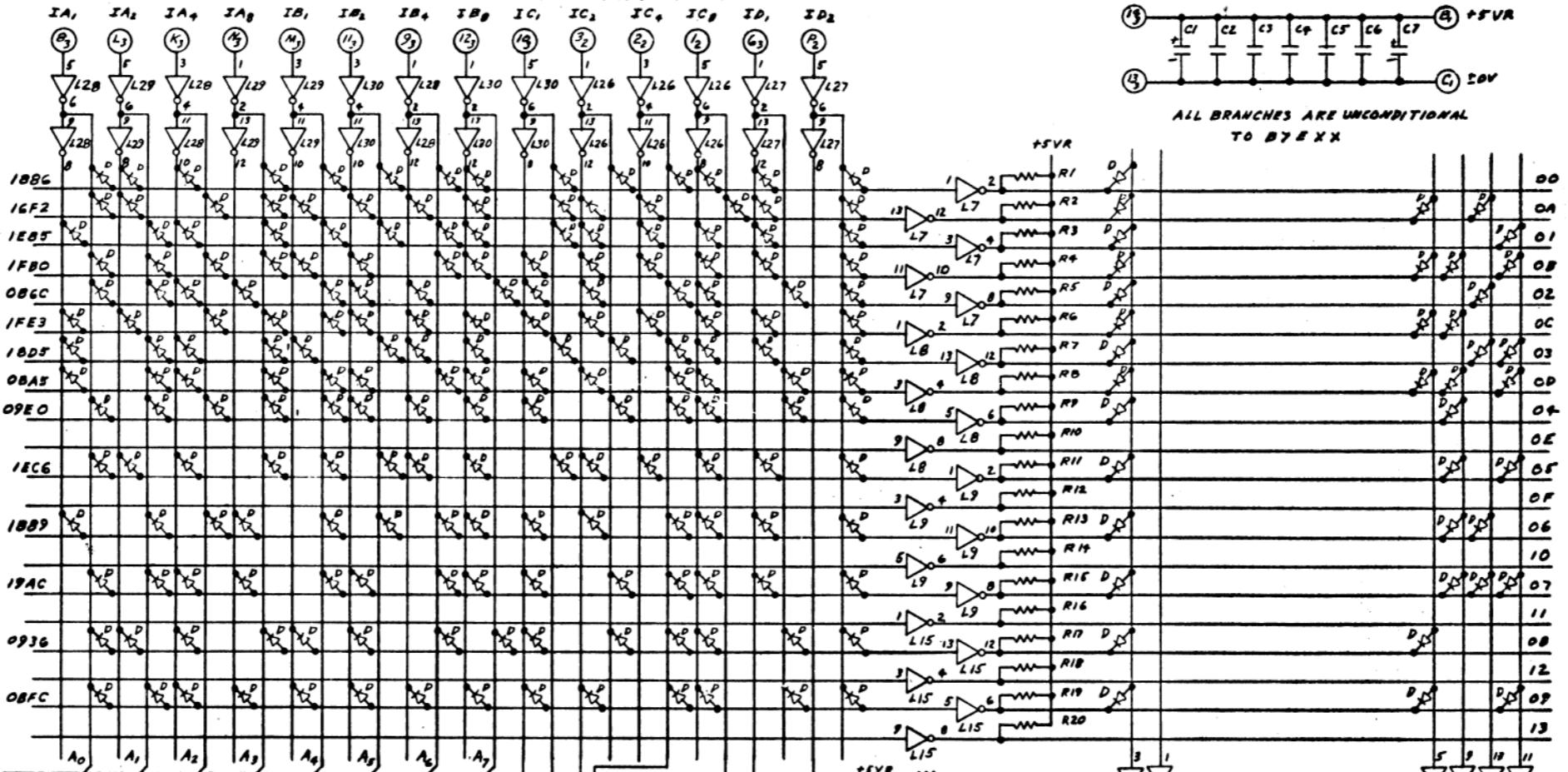
COMP.	SIZE/TYPE	W.L. NO.	QTY
KITR030 1K	790-3010	30	
D	SIL DIODE	380-1001	234
D2,3	EM903	380-4000	2
C,1,7	15AT24TA7T	300-9022	2
C2,3,4,	.01NF CER	300-1903	5
S,6			
SOCKET	24 PIN	376-9003	6

**1702A PROGRAM VARIATIONS**

LOC.	A1	A1E
L1	378-0256	
L2	378-0255	
L3	378-0257	
L4	378-0244	378-0253
L5	378-0243	378-0252
L6	378-0245	378-0256



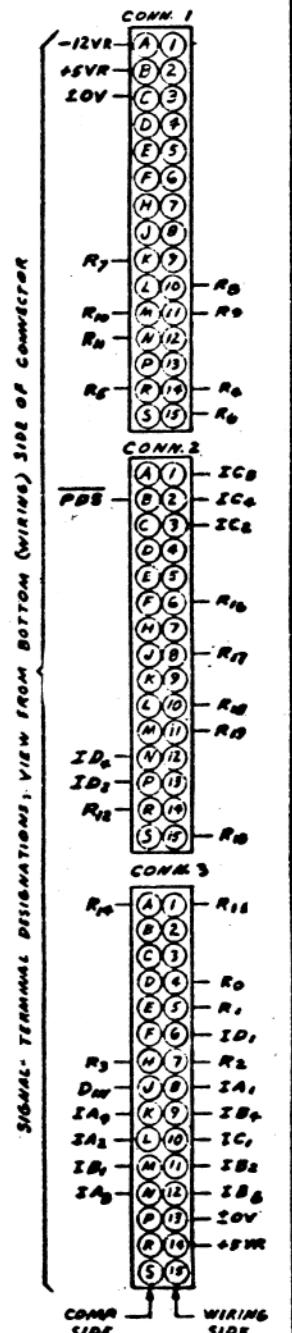
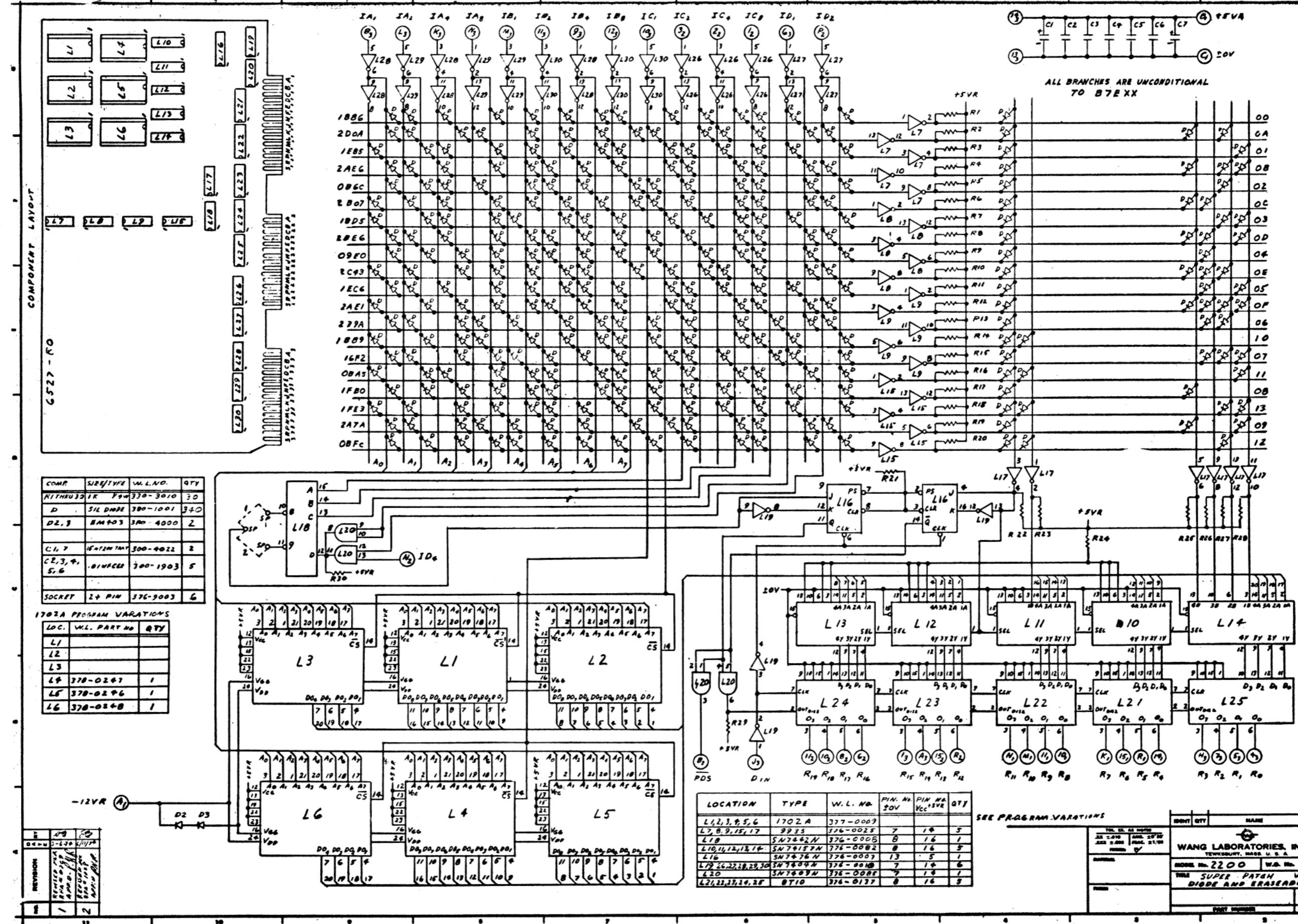
REVISION	REVISED BY	DATE	REVISION BY	DATE
5	REMOVED	1/8	6/17/74	
6	REMOVED	2-1-74	6/17/74	



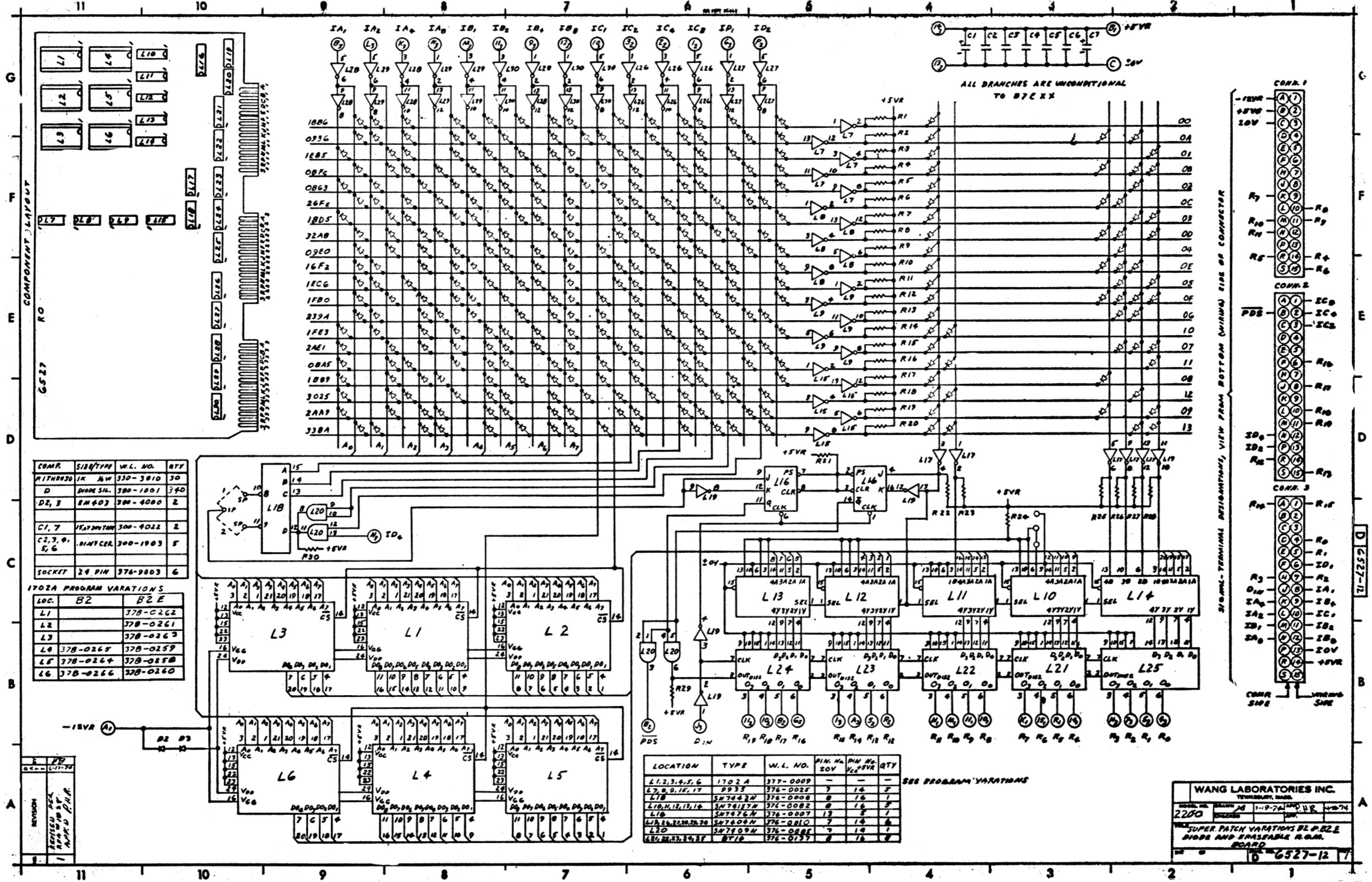
LOCATION	TYPE	W.L. NO.	PIN NO. Vcc +5v	PIN NO. ZOV	QTY
L1,2,3,4,5,6	1702A	377-0009	—	—	
L7,8,9,15,17	9935	376-0025	7	14	5
L18	SN7442N	376-0008	8	16	1
L10,11,12,13,17	SN74157N	376-0082	8	16	5
L16	SN7476N	376-0007	13	5	1
L20,26,27,28,29,30	SN7408N	376-0010	7	16	6
L20	SN7408N	376-0086	7	16	1
L21,22,23,24,25,26,27,28,29,30	BT10	376-0137	8	16	5

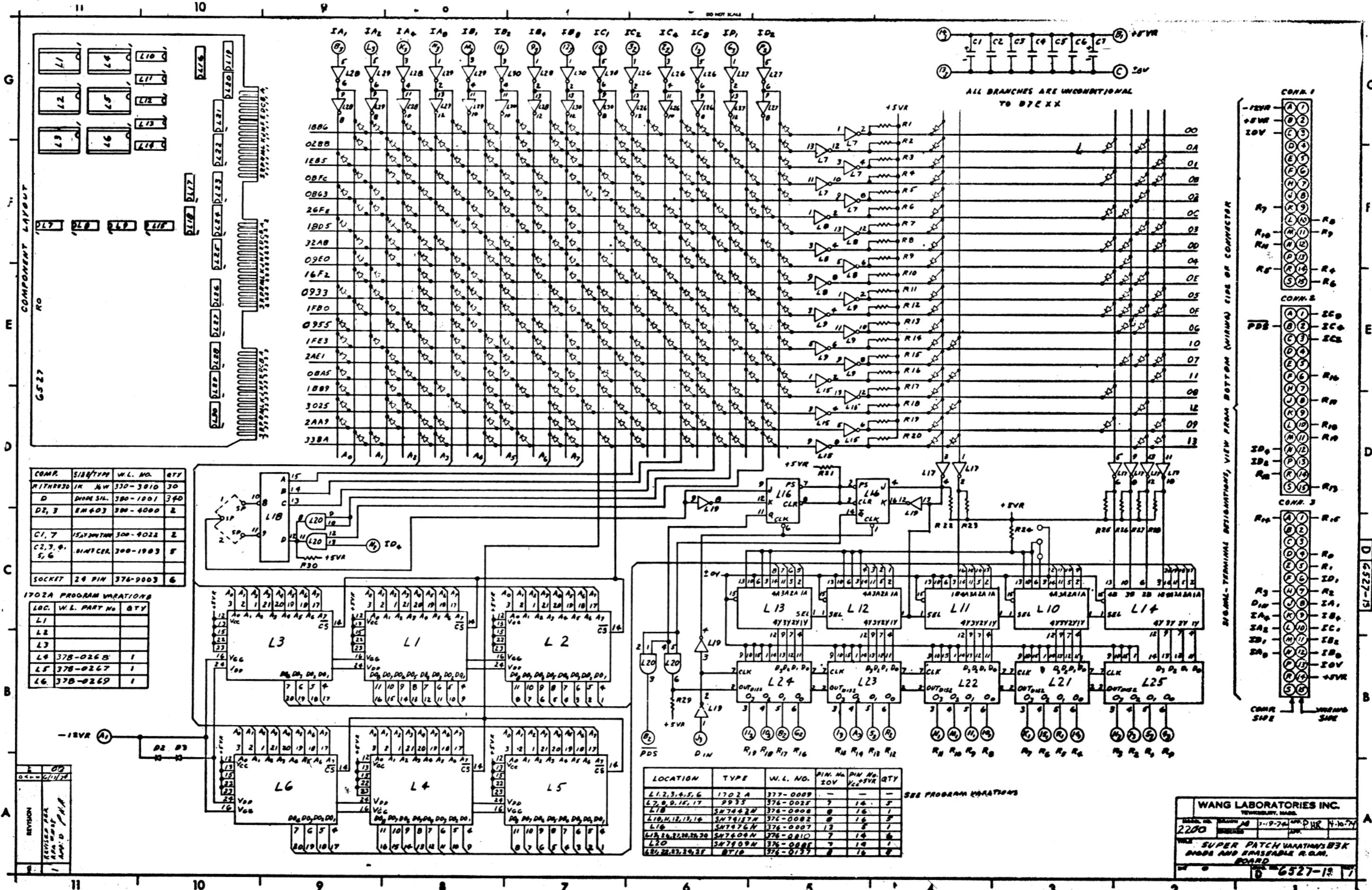
SEE PROGRAM VARIATIONS

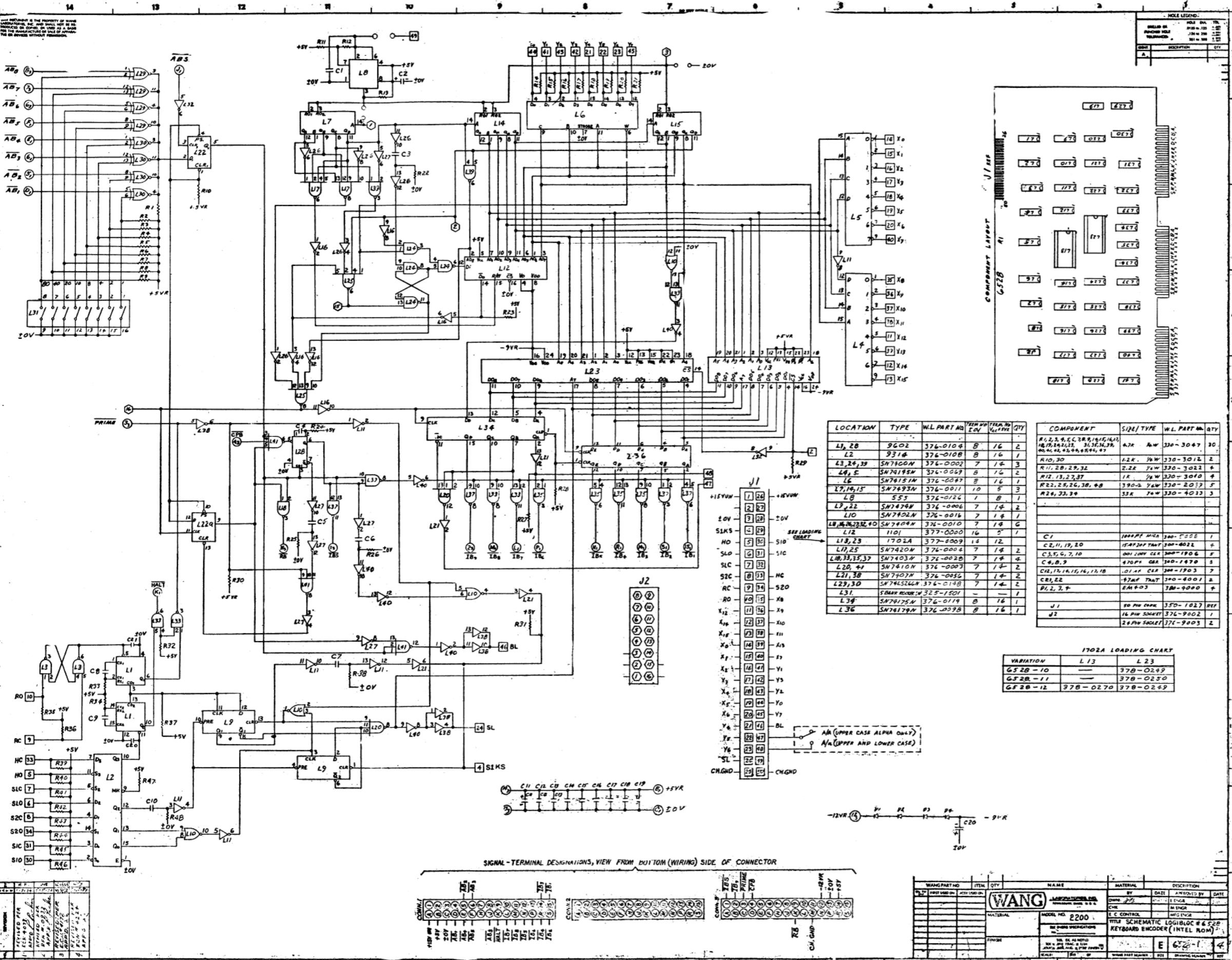
ITEM	QTY	NAME	MATERIAL	DESCRIPTION
DR	1	DATE 1-8-74		
ZAR	1	DATE 2-20-74		
CRK	1	DATE		
APP	1	DATE 1-30-74		
REMARKS				
MODEL NO.	2200	W.O. NO.		SCALE 1:1
WIRE SUPER PATCH VERSIONS AT AND AFTER DIODE AND ERASABLE ROM BOARD				
2	D	6527-10		

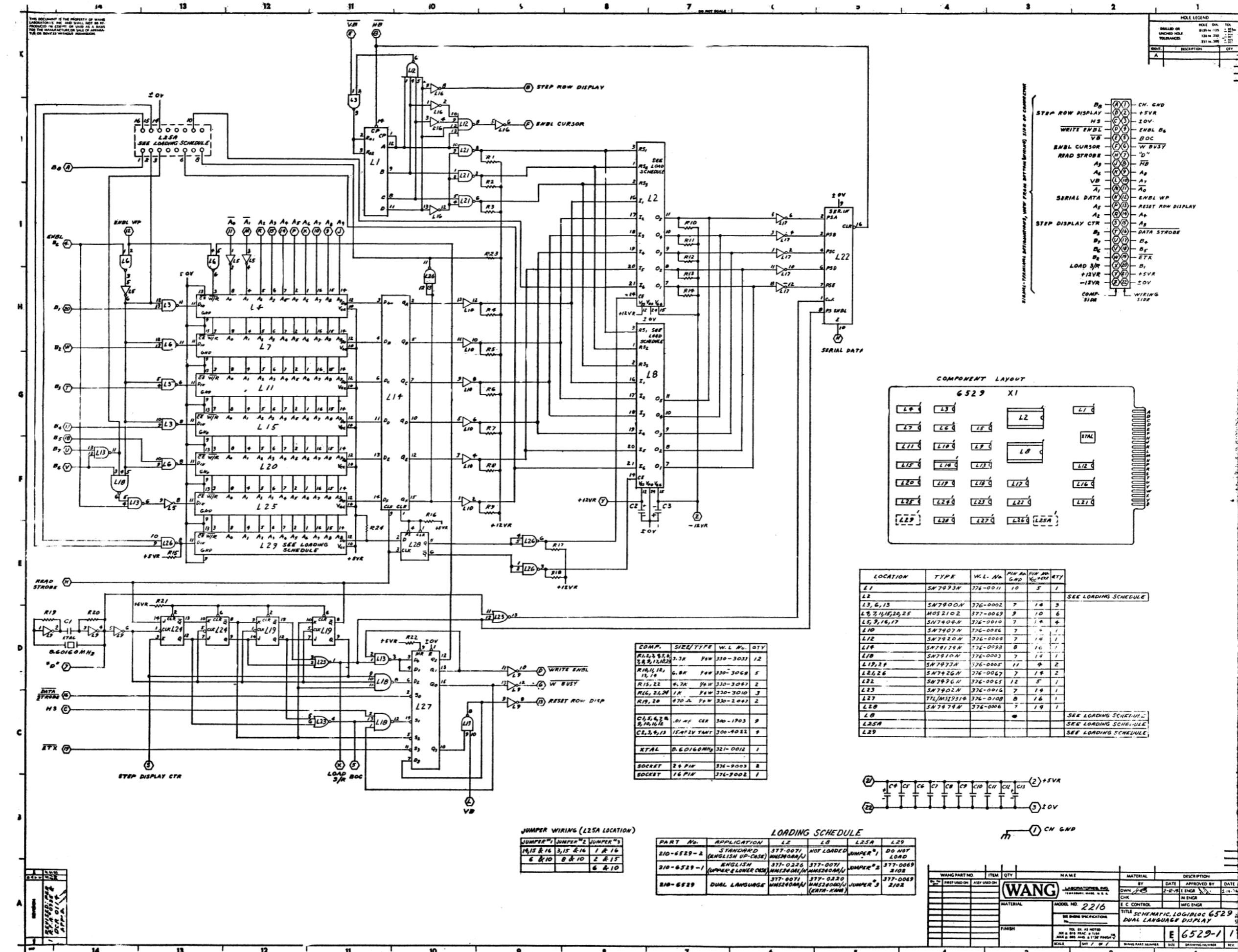


MATERIAL	DESCRIPTION	
DR 1-8	DATE 1-8-74	
CNC	DATE	
APP P. Rich	DAN 1-30-74	
PCAM 77, 0000		
ACTIONS BY RAM BOARD		
D	6527-11	
RECEIVED	FEBRUARY 1974	









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NO. 13

REV. A

DATE 1-26-75

APR. 1972

CHANGED

RESISTOR

VALUES FROM 3A

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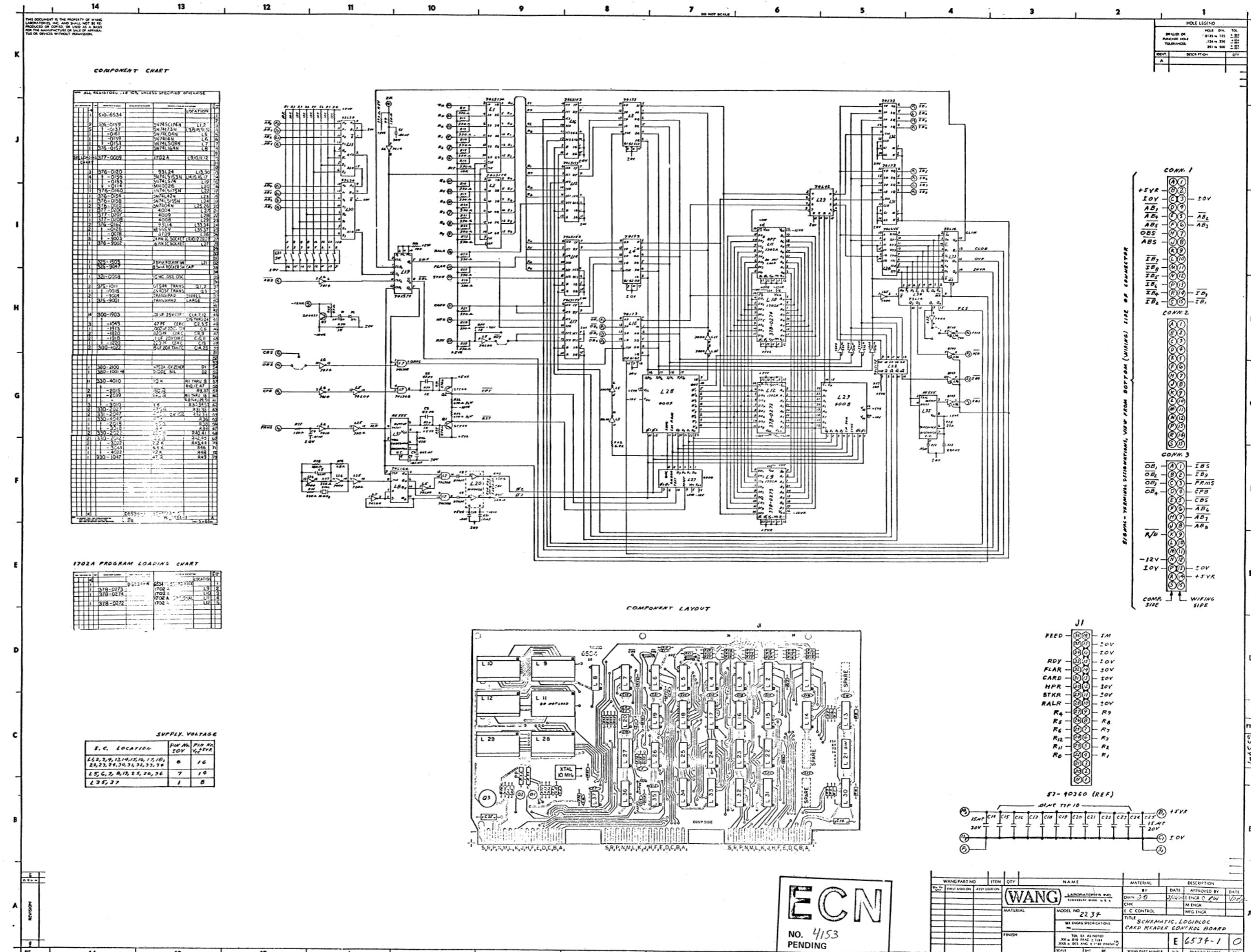
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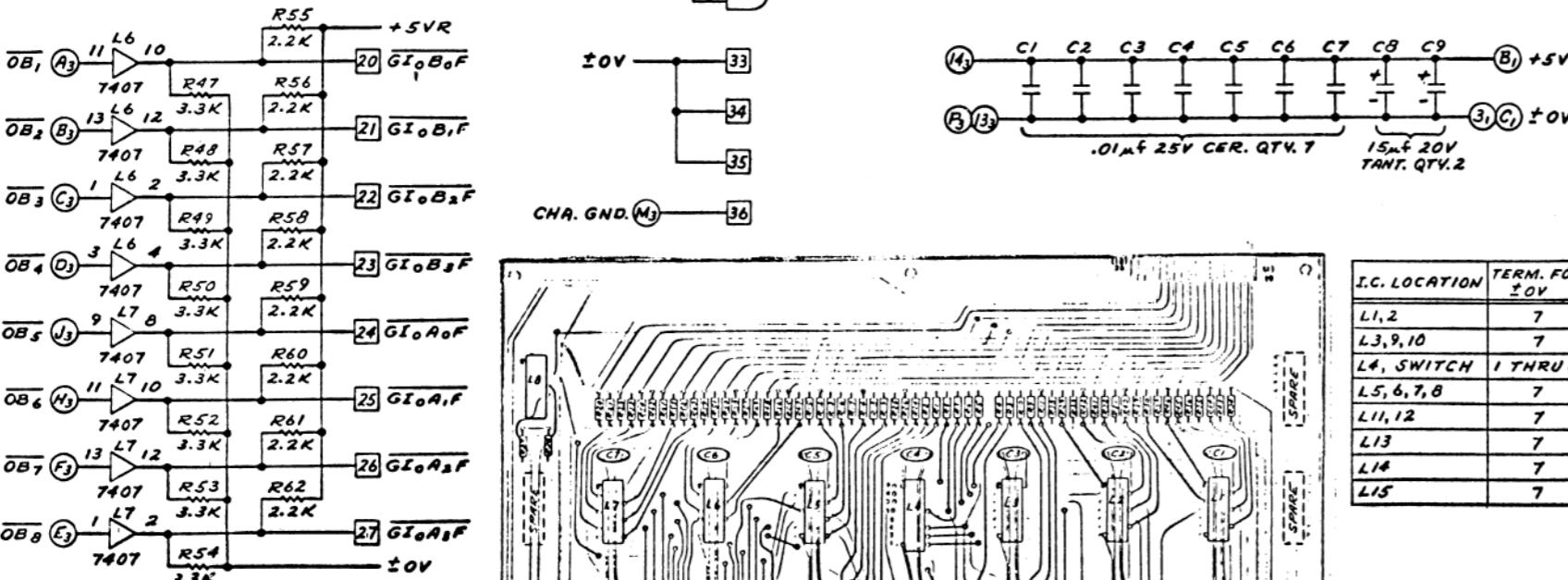
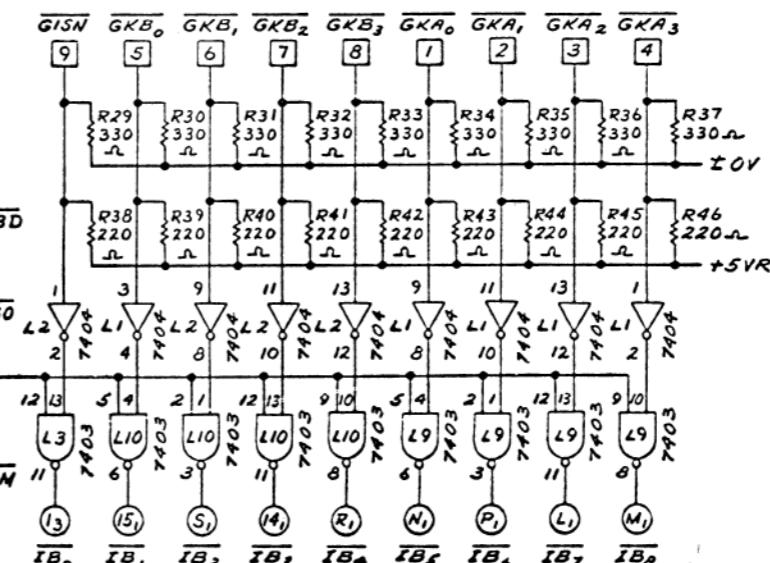
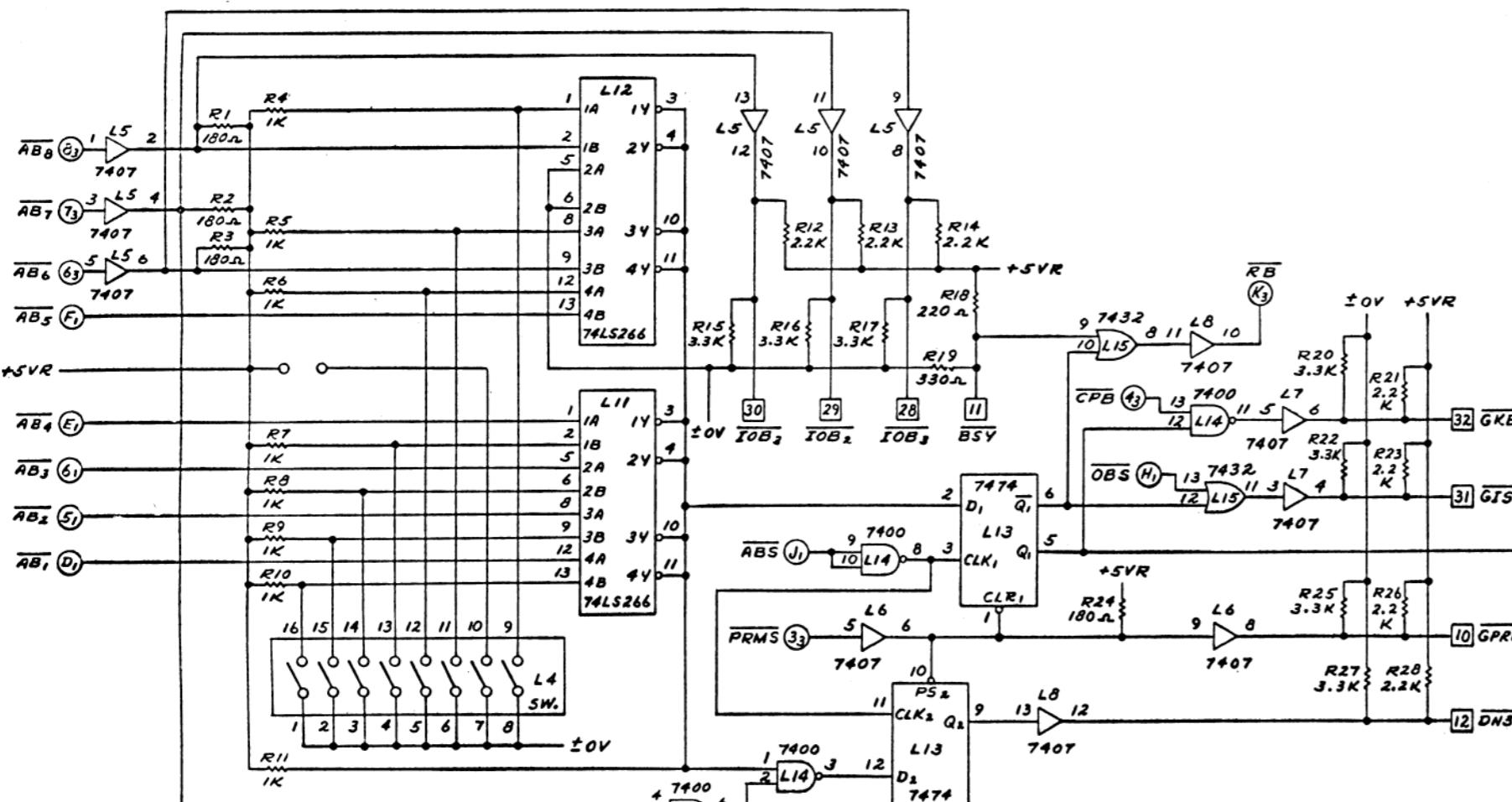
1



11 10 9 8 7 6 5 4 3 2 1

DO NOT SCALE

G



I.C. LOCATION	TERM. FOR ±OV	TERM. FOR VCC +5VR
L1,2	7	14
L3,9,10	7	14
L4, SWITCH	1 THRU 8	
L5,6,7,8	7	14
L11,12	7	14
L13	7	14
L14	7	14
L15	7	14

ALL RESISTORS NEW 10% UNLESS SPECIFIED OTHERWISE		
1	330-2018	1E0 R
2	-2022	R1,2,3,24
10	-2033	220 R
10	-3010	(P5,R38) 40
8	-3010	R1,2,39,37
15	-3022	1 K
14	330-3033	R4-11
		22 K
		P12,A2,23
		25,25,63
		25,27,54

USED ON MOD. NO.	WANG LABORATORIES INC.
MOD. 2230	TEWKSBURY, MASS.
MOD. 2240	MODEL NO. DRAWN F.S. 4-174 APP.
MOD. 2242	SCHEMATIC AT LEFT CHECKED APP.
SINGLE DISK	TITLE SCHEMATIC LOGIBLOC # 6541
MOD. 2243	DISK CONTROL
TRIPLE DISK	REV. NO. D 6541-1

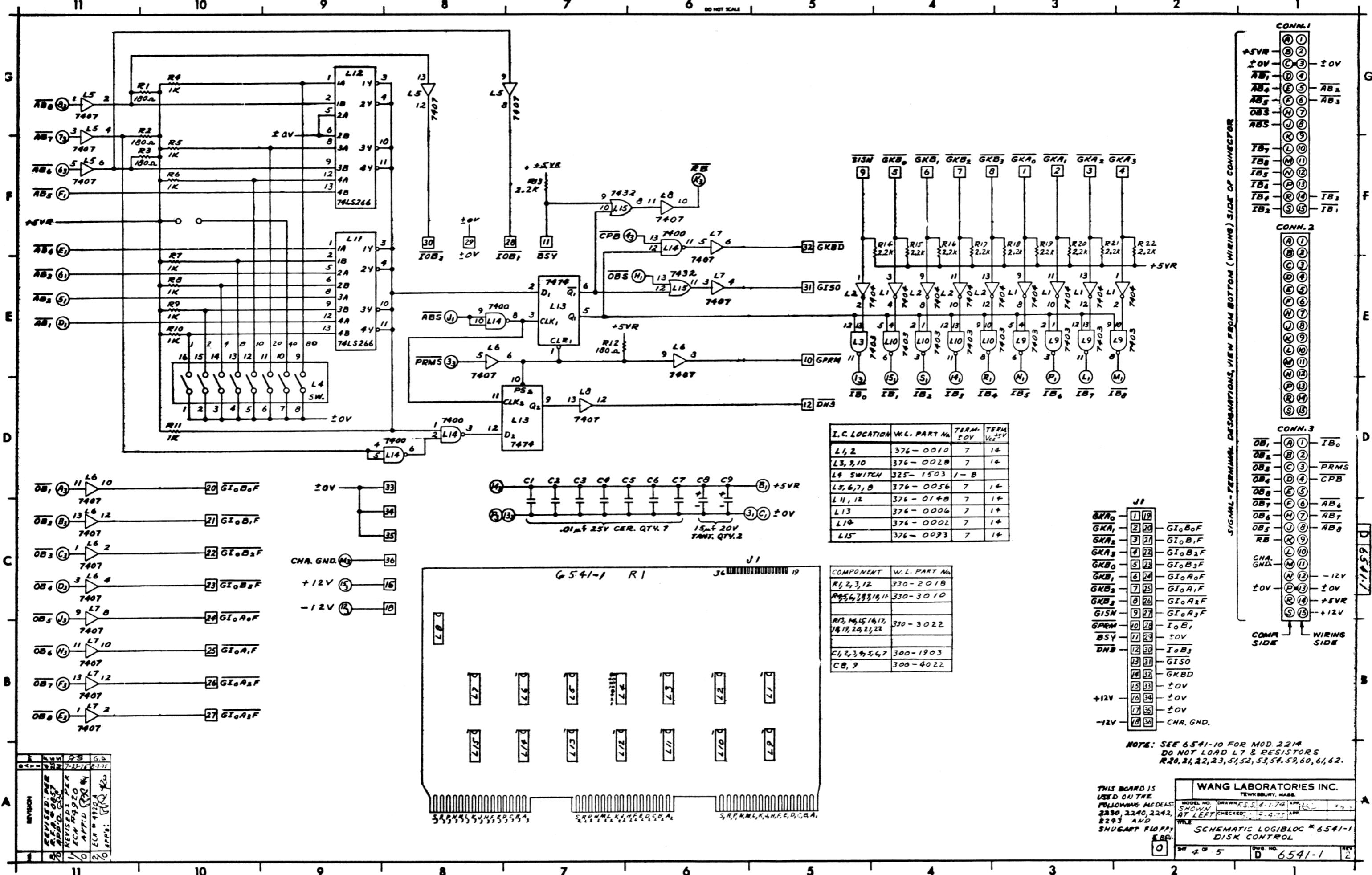
SIGNAL - TERMINAL DESIGNATIONS, VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR

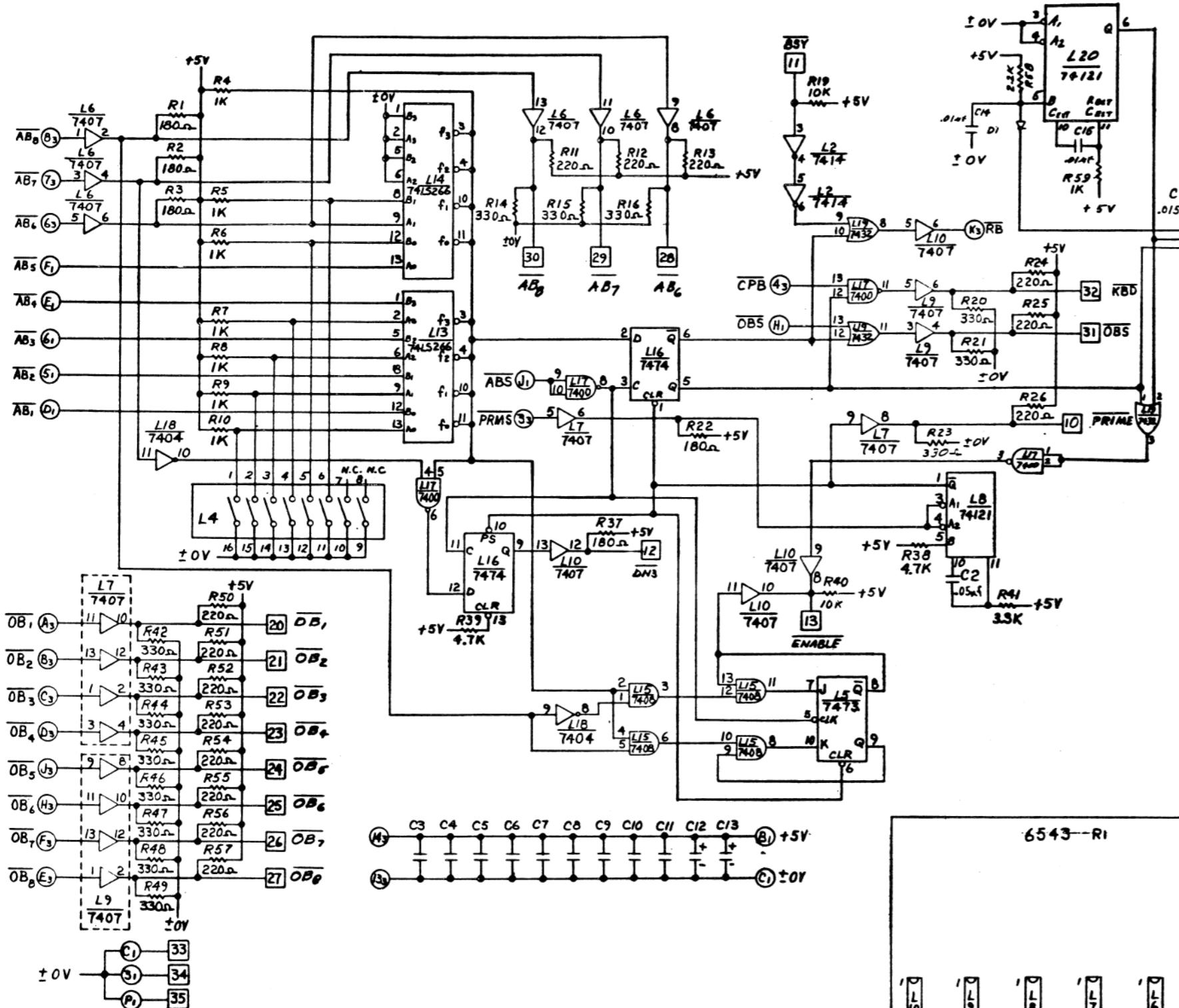
CONN. 1
A(1)
B(2)
C(3)
D(4)
E(5)
F(6)
G(7)
H(8)
I(9)
J(10)
K(11)
L(12)
M(13)
N(14)
O(15)

CONN. 2
---------

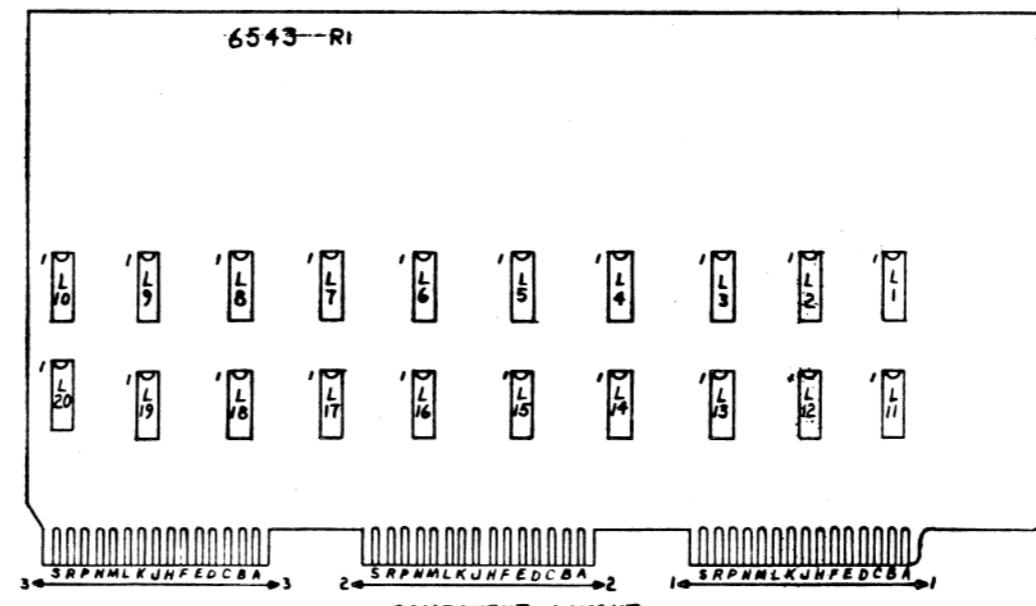
CONN. 3
---------

PREFRODUCTION



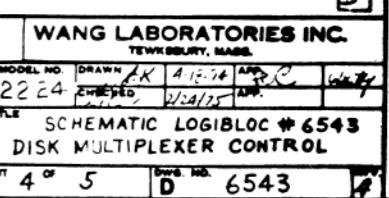


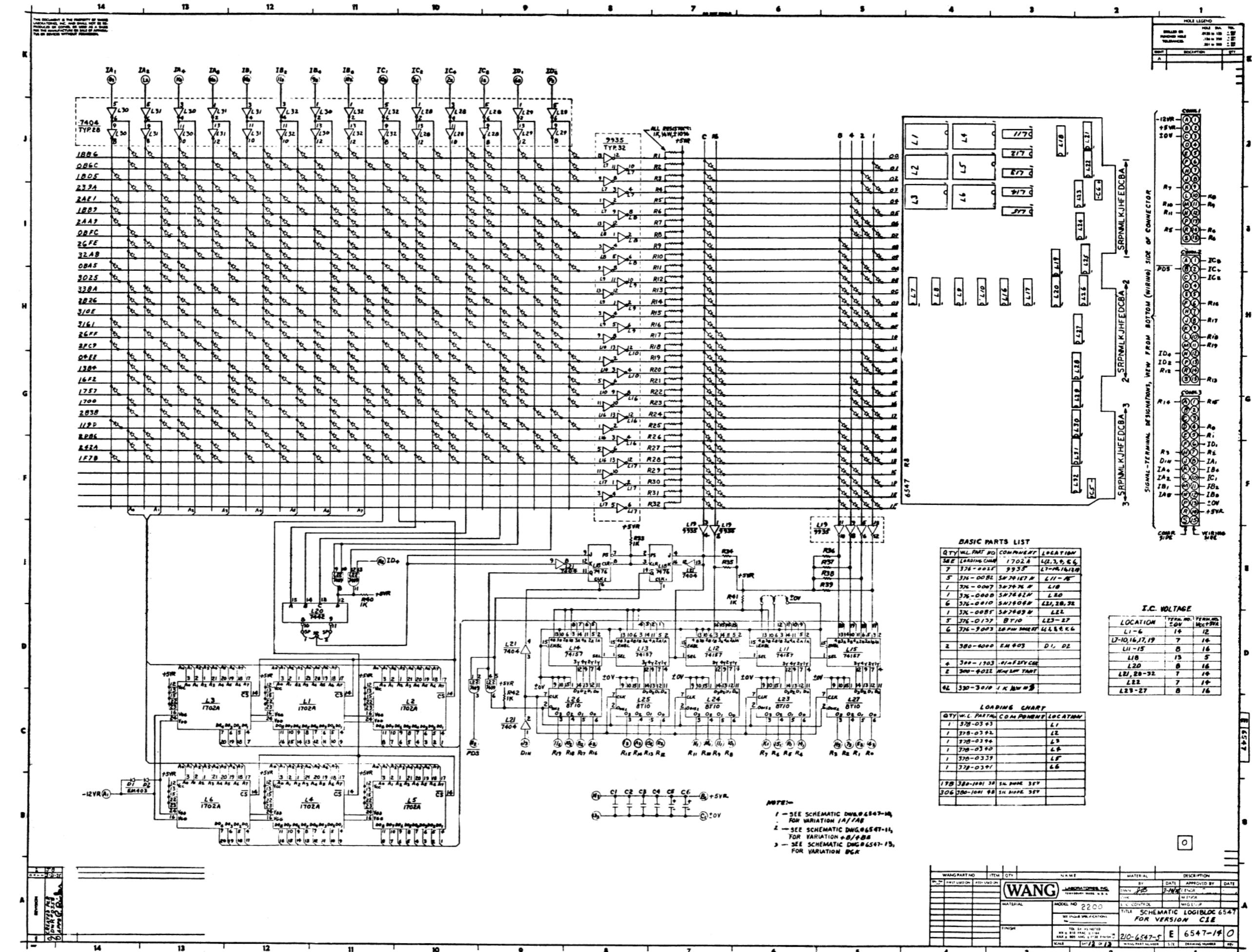
COMPONENT	W.L. PART NO.
L4	325-1503
L7	325-9047
C1	300-2115
C2	300-1900
C3-11,14,15	300-1903
C12,13	300-4022
R41	330-3033
R58	330-3022
R27	- 2010
R1-3,22,37	- 2018
R11-13,24-26,59-57	- 2022
RH-16,20,21,23,24-25	- 2033
R4-10, 59	- 3010
R38,39	- 3047
R19,28-36,40	330-4010



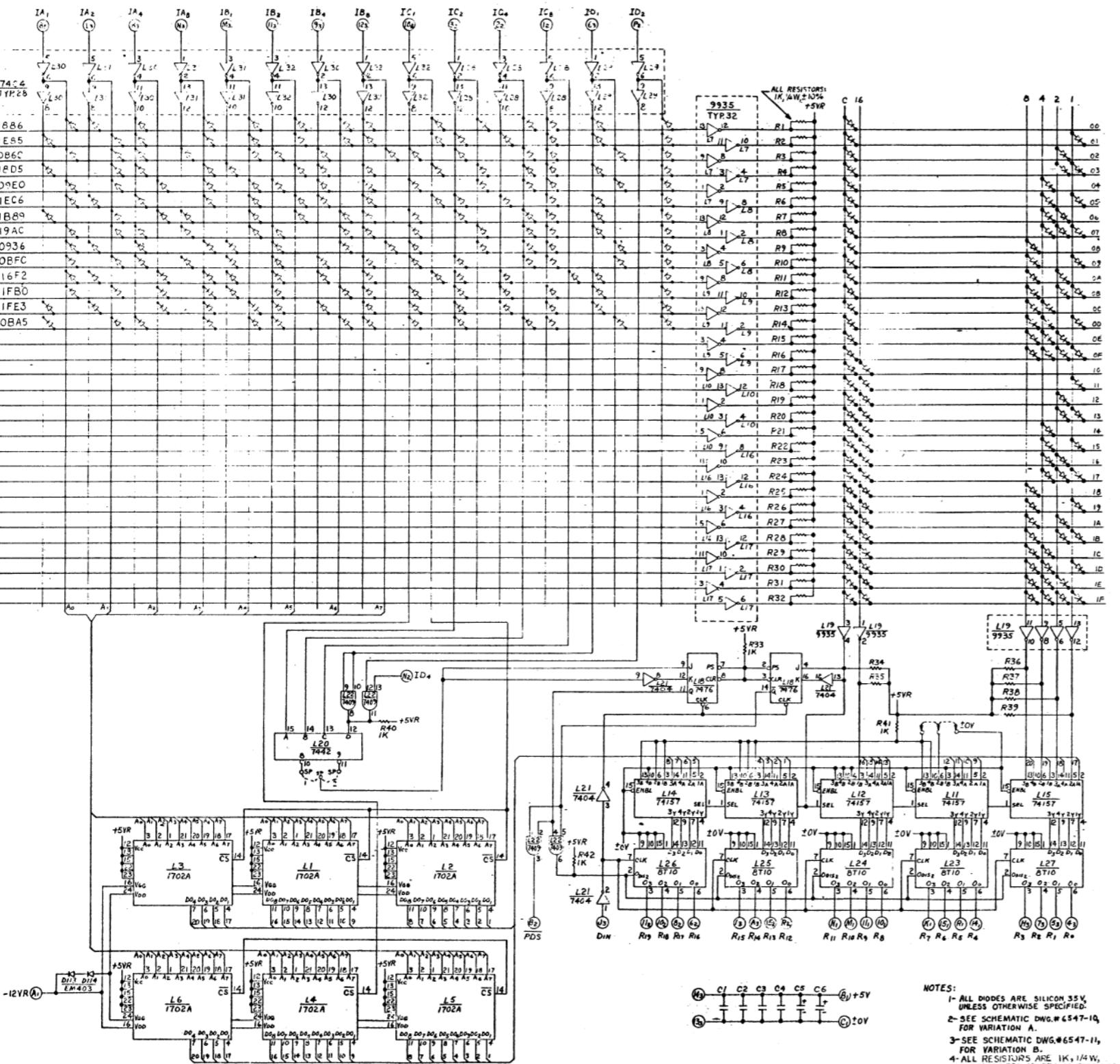
W.L. PART NO.	LOCATION	TERM. NO. $\pm 0V$	TERM. NO. $V_{CC} + 5V$
376-0139	L1,2	7	14
-0028	L3,11,12	7	14
-0005	L5	11	4
-0056	L6,7,9,10	7	14
-0051	L8,20	7	14
-0148	L13,14	7	14
-0081	L15	7	14
-0006	L16	7	14
-0002	L17	7	14
-0010	L18	7	14
376-0093	L19	7	14

## **COMPONENT LAYOUT**

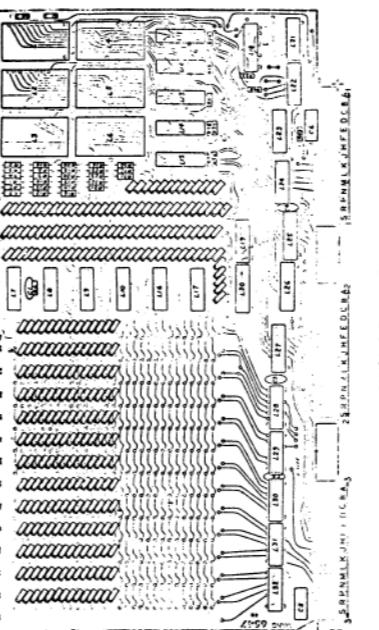




12 11 10 9 8 7 6 5 4 3 2 1



NOTES:  
 1- ALL DIODES ARE SILICON 35V, UNLESS OTHERWISE SPECIFIED.  
 2- SEE SCHEMATIC DWG # 6547-10, FOR VARIATION A.  
 3- SEE SCHEMATIC DWG # 6547-11, FOR VARIATION B.  
 4- ALL RESISTORS ARE 1K, 1/4W, ±10% UNLESS OTHERWISE SPECIFIED.  
 5- THE BASIC P.C. BOARD (WITHOUT SOFTWARE CHIPS), MADE IN PRODUCTION IS 6547-1.

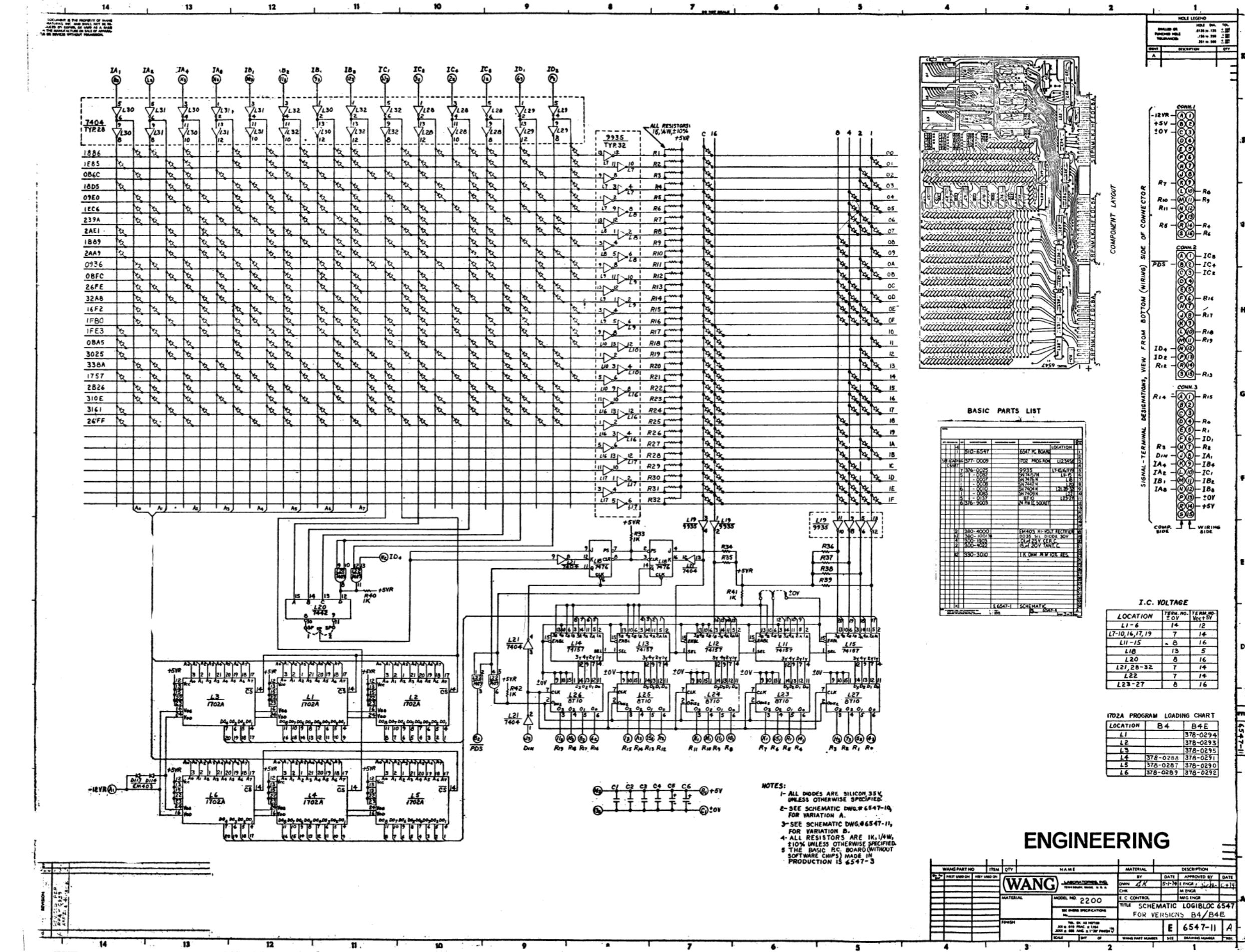


COMPONENT LAYOUT

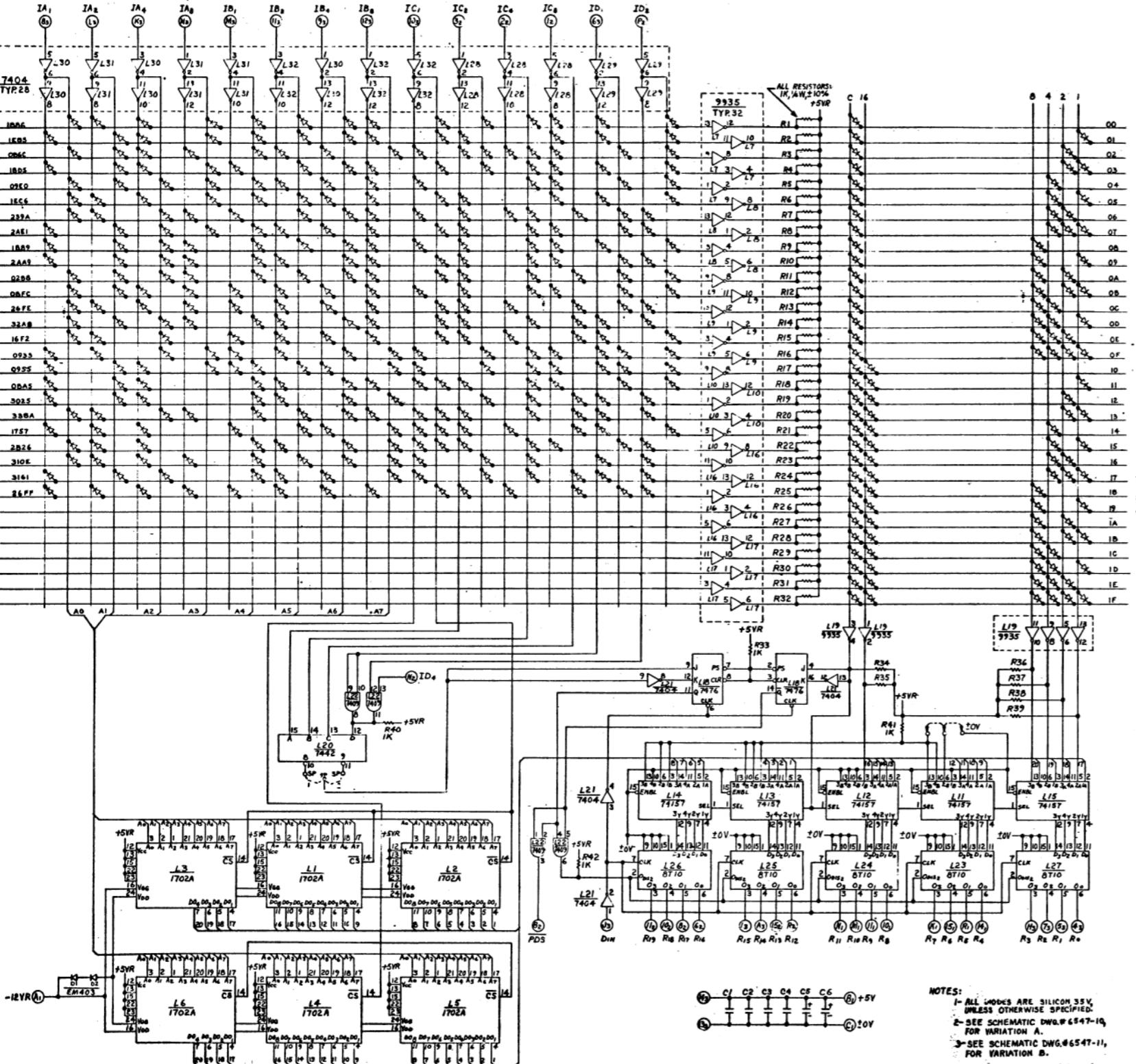
SIGNAL-TERMINAL DESIGNATIONS, VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR

	CONN. 1	CONN. 2	CONN. 3
-12V	(A1)	(A1)	(A1)
+5V	(C3)	(B2)	(B2)
+SV	(D4)	(C5)	(C5)
R7	(E5)	(F6)	(F6)
R10	(H7)	(J8)	(H7)
R11	(I8)	(K9)	(I8)
R5	(J9)	(L10)	(J9)
ID4	(M11)	(N12)	(M11)
ID2	(P13)	(P13)	(P13)
ID1	(R14)	(Q15)	(R14)
R12	(S15)	(S15)	(S15)
CONN. 2	(A1)	(A1)	(A1)
ID5	(B2)	(B2)	(B2)
ID4	(C3)	(C3)	(C3)
ID2	(D4)	(D4)	(D4)
ID1	(E5)	(E5)	(E5)
R16	(F6)	(F6)	(F6)
R17	(H7)	(J8)	(H7)
R18	(I8)	(K9)	(I8)
R19	(L10)	(N12)	(L10)
ID4	(M11)	(P13)	(M11)
ID2	(P13)	(Q15)	(P13)
ID1	(R14)	(S15)	(R14)
R13	(S15)	(S15)	(S15)
R14	(A1)	(B2)	(A1)
R15	(C3)	(D4)	(C3)
R16	(E5)	(F6)	(E5)
R17	(H7)	(I8)	(H7)
R18	(J8)	(K9)	(J8)
R19	(L10)	(N12)	(L10)
R20	(M11)	(P13)	(M11)
R21	(P13)	(Q15)	(P13)
R22	(R14)	(S15)	(R14)
R23	(S15)	(S15)	(S15)
R24	(A1)	(B2)	(A1)
R25	(C3)	(D4)	(C3)
R26	(E5)	(F6)	(E5)
R27	(H7)	(I8)	(H7)
R28	(J8)	(K9)	(J8)
R29	(L10)	(N12)	(L10)
R30	(M11)	(P13)	(M11)
R31	(P13)	(Q15)	(P13)
R32	(R14)	(S15)	(R14)

LOCATION	TERM. NO.	TERM. NO.	LOCATION
1	1	2	1
2	2	3	2
3	3	4	3
4	4	5	4
5	5	6	5
6	6	7	6
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152	152	153	152



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ATUS OR SERVICES WITHOUT PERMISSION.



ENGINEERING

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
100-1000000	100-1000000		<b>WANG</b>	BRASS	DATE APPROVED BY DATE
				PRINTED 4/26/65	S-1-10 (ENG) 4/26/65 A-1-10
				CHE	IN ENGL
				E.C. CONTROL	2ND EDITION
MATERIAL				TITLE SCHEMATIC LOGIC/BLOC 6547	
MODEL NO. 2200				FOR VERSION 65K	
SEE DRAWING SPECIFICATIONS IN					
FINISH				TEL. NO. AS NOTED JUN 1965 JUN 1965 JUN 1965 APR 1 1965 PRINTED	
SCALE				WANG PART NUMBER	WIZ. DRAWING NUMBER
INCH				WIZ	WIZ

6

5

4

3

2

## HOLE LEGEND

DRILLED OR PUNCHED HOLE TOLERANCES:

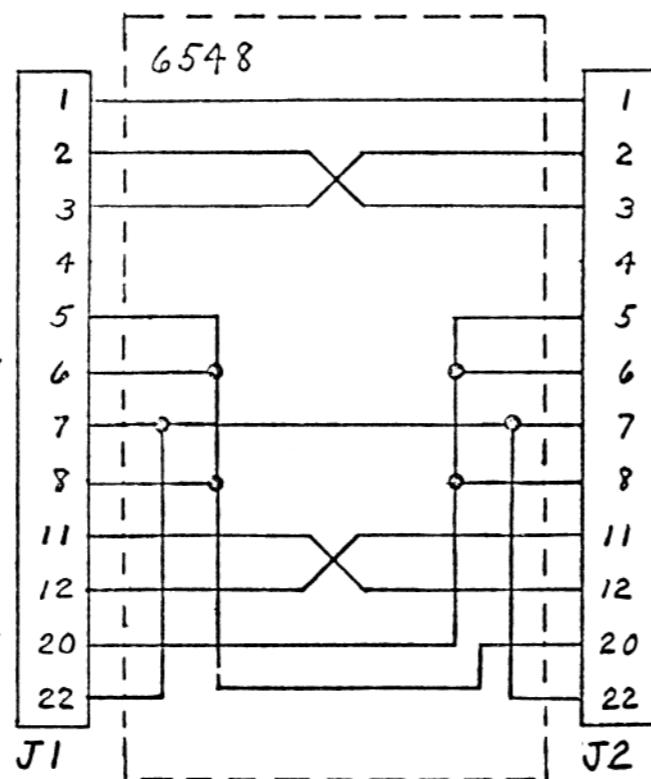
HOLE DIA.	TOL.
.0135 to .125	+ .003 -.001
.126 to .250	+ .004 -.001
.251 to .500	+ .005 -.001

IDENT.	DESCRIPTION	QTY.
A		

D

D

CHASSIS GND  
XMT DATA  
RCV DATA  
REQ TO SEND  
CLEAR TO SEND  
DATA SET READY  
SIGNAL GND  
CARRIER DET  
SUP. XMT  
SUP. RCV  
DATA TERM. READY  
RING



C

B

B

C

A

A

BY	REVISION	DATE
DWN		4-18-77
	O	4-29-77

WANG LABORATORIES, INC.				PL 6548-4			
PREP: AM DATE: 4-10-74 CHK APPD APPD				A			
NULL MODEN JUNCTION				ASSY NO: 210-6548 SHEET 1 OF 1 REV:			
QTY. PER DASH NO.	KEY	WANG PART NUMBER	WANG DRAWING NUMBER	NOMENCLATURE OR DESCRIPTION			
-4	1	510-6548	6548 PC BOARD	ITEM NO. 1			
	2	350-1031	DB-255 CH CONN 6000 SERIES	ITEM NO. 2			
				ITEM NO. 3			
SYN:	REVISION DESCRIPTION	DATE	APPROVED	SYN:	REVISION DESCRIPTION	DATE	APPROVED
KEY: * = VENDOR ITEM FOR PROCUREMENT OR PART NUMBER, X = SPECIFICATION CONTROL OR SOURCE CONTROL DRAWING F = FEET, INCHES M = METRIC				NOTES	MODEL 2227 N		
					PL 6548-4		

B 6548-1

WANG PART NO.	ITEM	QTY.	NAME	MATERIAL	DESCRIPTION
Qty. Per Unit	FIRST USED ON	ASSY USED ON	WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.		
			BY DATE APPROVED BY DATE		
			DWN M.F.	4-18-77	E ENGR
			CHK		M ENGR
			E. C. CONTROL MFG ENGR		
MATERIAL MODEL NO. 2227-N			TITLE WIRING DIAGRAM NULL MODEN JUNCTION		
SEE ENGRG SPECIFICATIONS No. _____					
FINISH			TOL. EX. AS NOTED .XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1°30' FINISH ✓ SCALE SHT / OF /		
			WANG PART NUMBER	SIZE	DRAWING NUMBER REV.
			B	6548-1	O

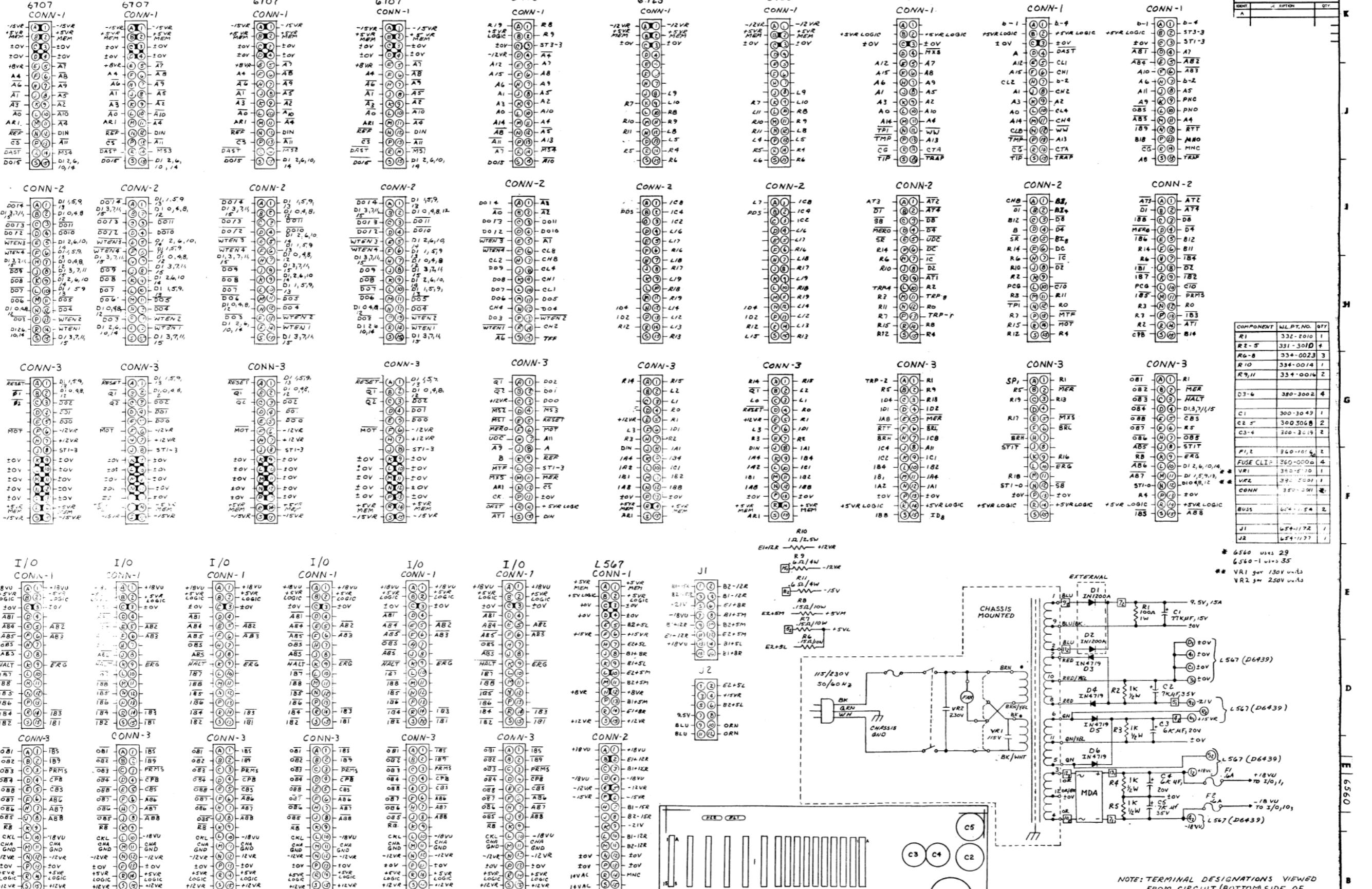
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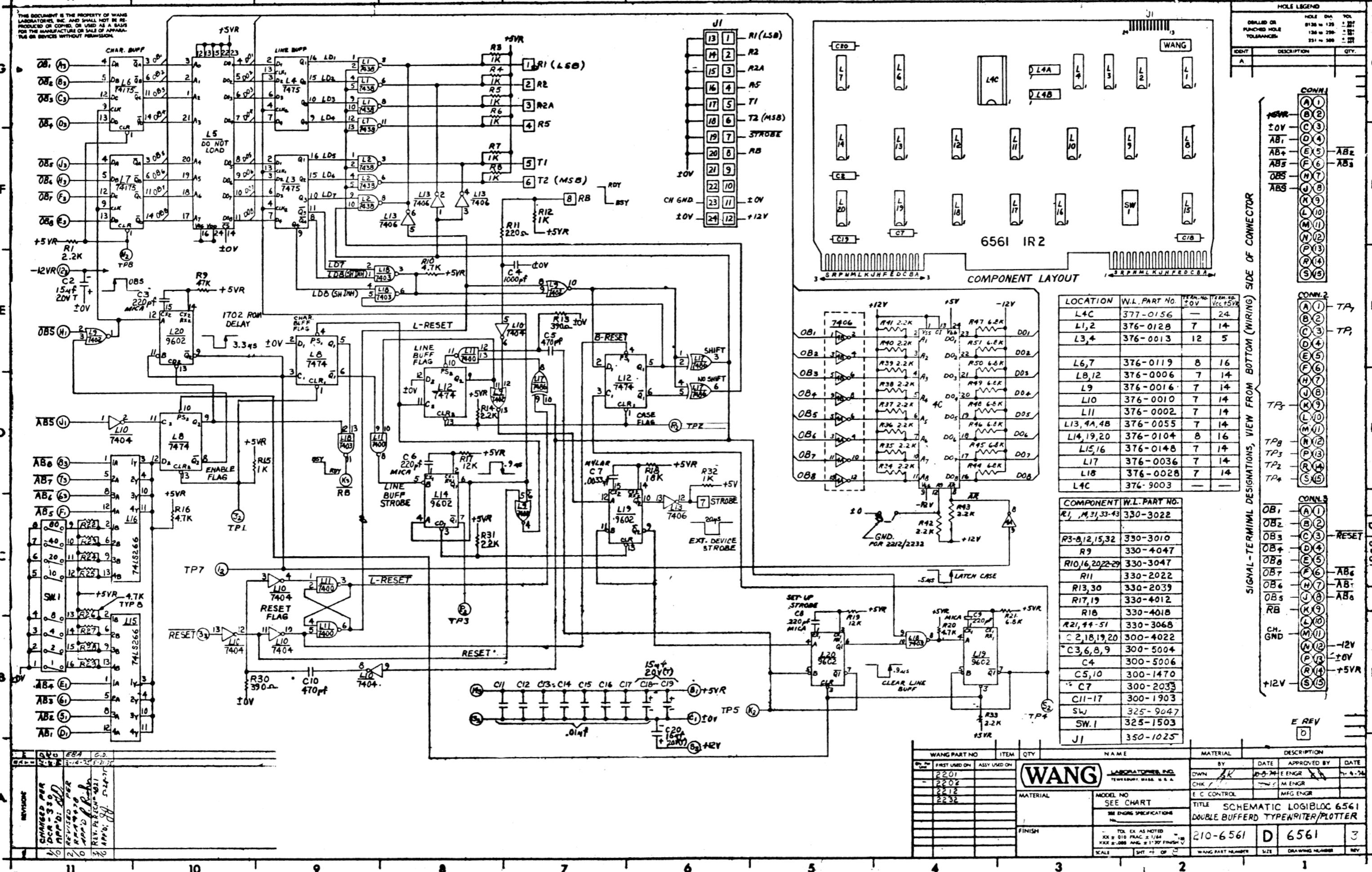
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2



DATE	REVISION	REMARKS
4-11-74	A	Initial
4-11-74	B	Revised BCR 220
4-11-74	C	Revised to add BQR 11/6/64 24+
4-11-74	D	REVISED PER ECAH-55-55 APR 21, 1968 REVISED PER ECAH-55-55 APR 21, 1968
	E	APR 21, 1968



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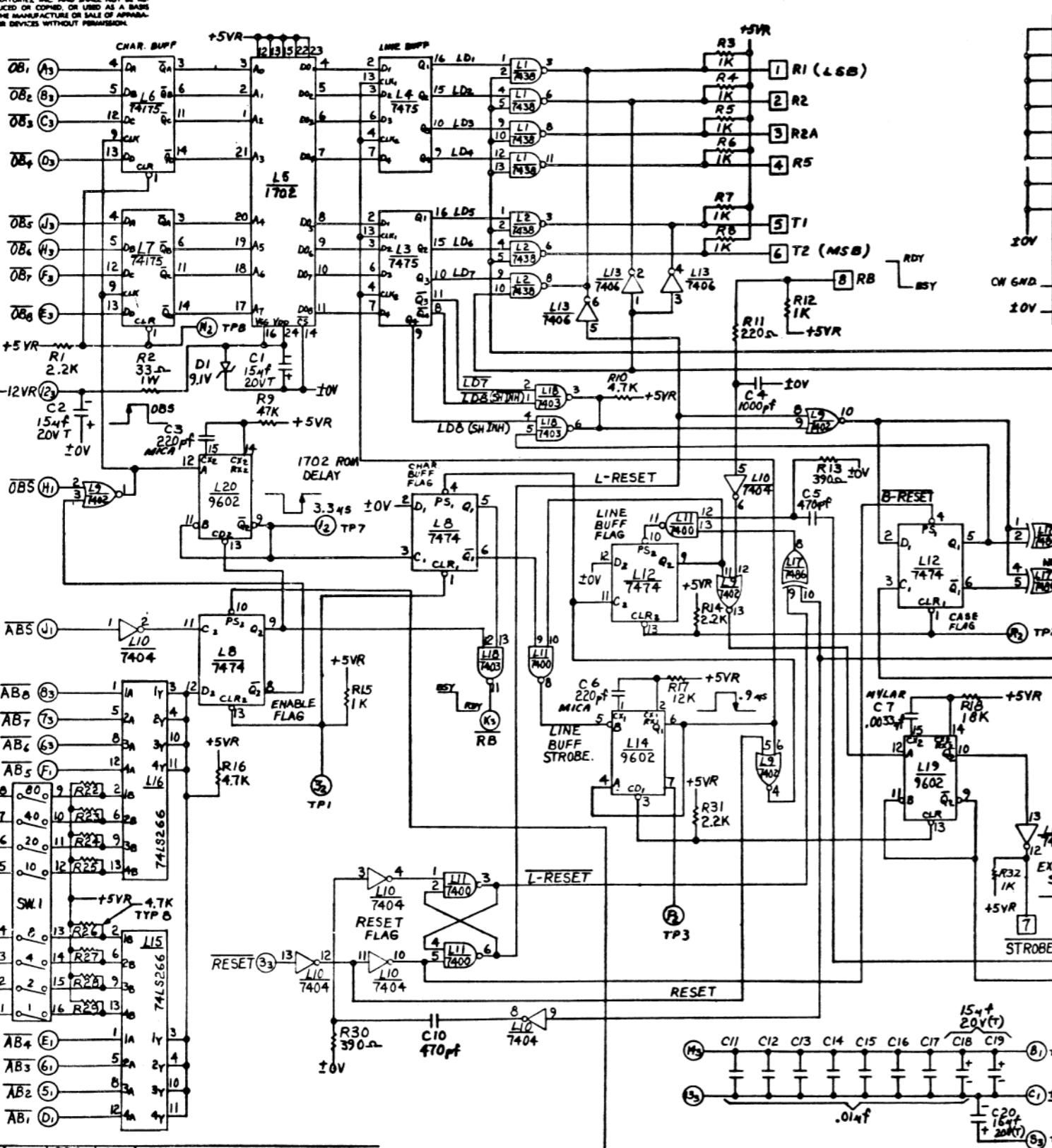
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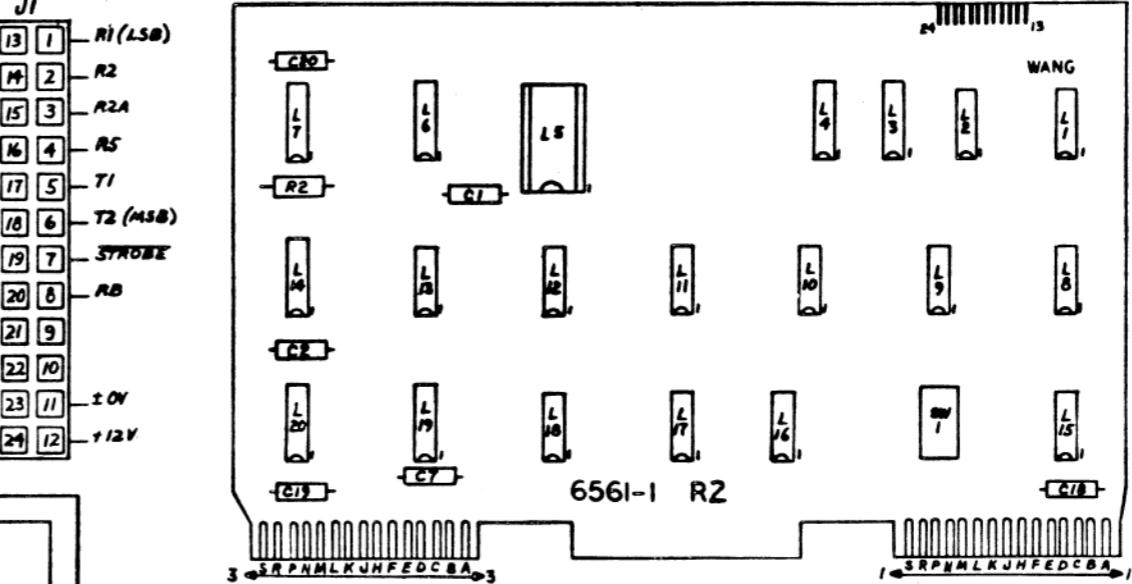
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2

1



REVISON	CHANGED PER	REF ID:	REVISED PER	G.D
1/0	CHANGED PER OCR - 330-4047 REMOVED PER REF ID: 6561-1	3-4-75	REVISED PER REF ID: 6561-1	5/21/11
2/0	REVISED PER REF ID: 6561-1	5/21/11	REVISED PER REF ID: 6561-1	5/21/11
3/0	REVISED PER REF ID: 6561-1	5/21/11	REVISED PER REF ID: 6561-1	5/21/11
4/0	REVISED PER REF ID: 6561-1	5/21/11	REVISED PER REF ID: 6561-1	5/21/11



COMPONENT LAYOUT

SIGNAL-TERMINAL DESIGNATIONS, VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR

CONN.1	IDENT	DESCRIPTION	QTY
A	TP7	+5VR	1
B	TP8	±10V	1
C	TP9	AB1	1
D	TP10	AB2	1
E	TP11	AB3	1
F	TP12	AB4	1
G	TP13	AB5	1
H	TP14	AB6	1
I	TP15	AB7	1
J	TP16	AB8	1
K	TP17	AB9	1
L	TP18	AB10	1
M	TP19	AB11	1
N	TP20	AB12	1
O	TP21	AB13	1
P	TP22	AB14	1
Q	TP23	AB15	1
R	TP24	AB16	1
S	TP25	AB17	1

CONN.2	IDENT	DESCRIPTION	QTY
A	TP7	-TP7	1
B	TP8	-TP8	1
C	TP9	-TP9	1
D	TP10	-TP10	1
E	TP11	-TP11	1
F	TP12	-TP12	1
G	TP13	-TP13	1
H	TP14	-TP14	1
I	TP15	-TP15	1
J	TP16	-TP16	1
K	TP17	-TP17	1
L	TP18	-TP18	1
M	TP19	-TP19	1
N	TP20	-TP20	1
O	TP21	-TP21	1
P	TP22	-TP22	1
Q	TP23	-TP23	1
R	TP24	-TP24	1
S	TP25	-TP25	1

CONN.3	IDENT	DESCRIPTION	QTY
OB1	A(1)	RESET	1
OB2	B(2)		1
OB3	C(3)		1
OB4	D(4)		1
OB5	E(5)		1
OB6	F(6)		1
OB7	G(7)		1
OB8	H(8)		1
RB	I(9)		1
CH. GND	J(10)		1
M(11)	M(12)	-12V	1
P(13)	P(14)	±10V	1
R(15)	R(16)	+5VR	1

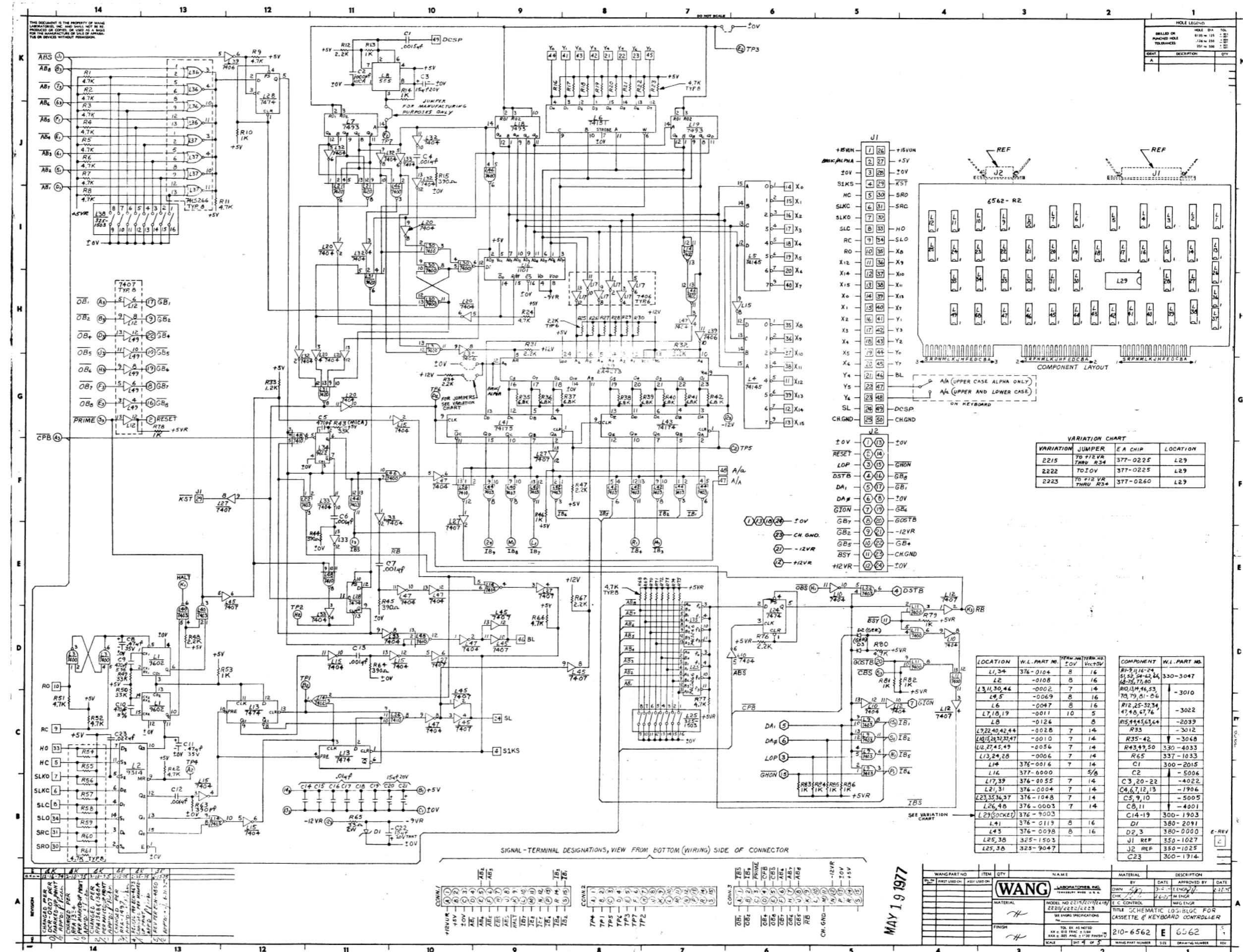
COMP	W.L. PT. NO
J1	350-1025

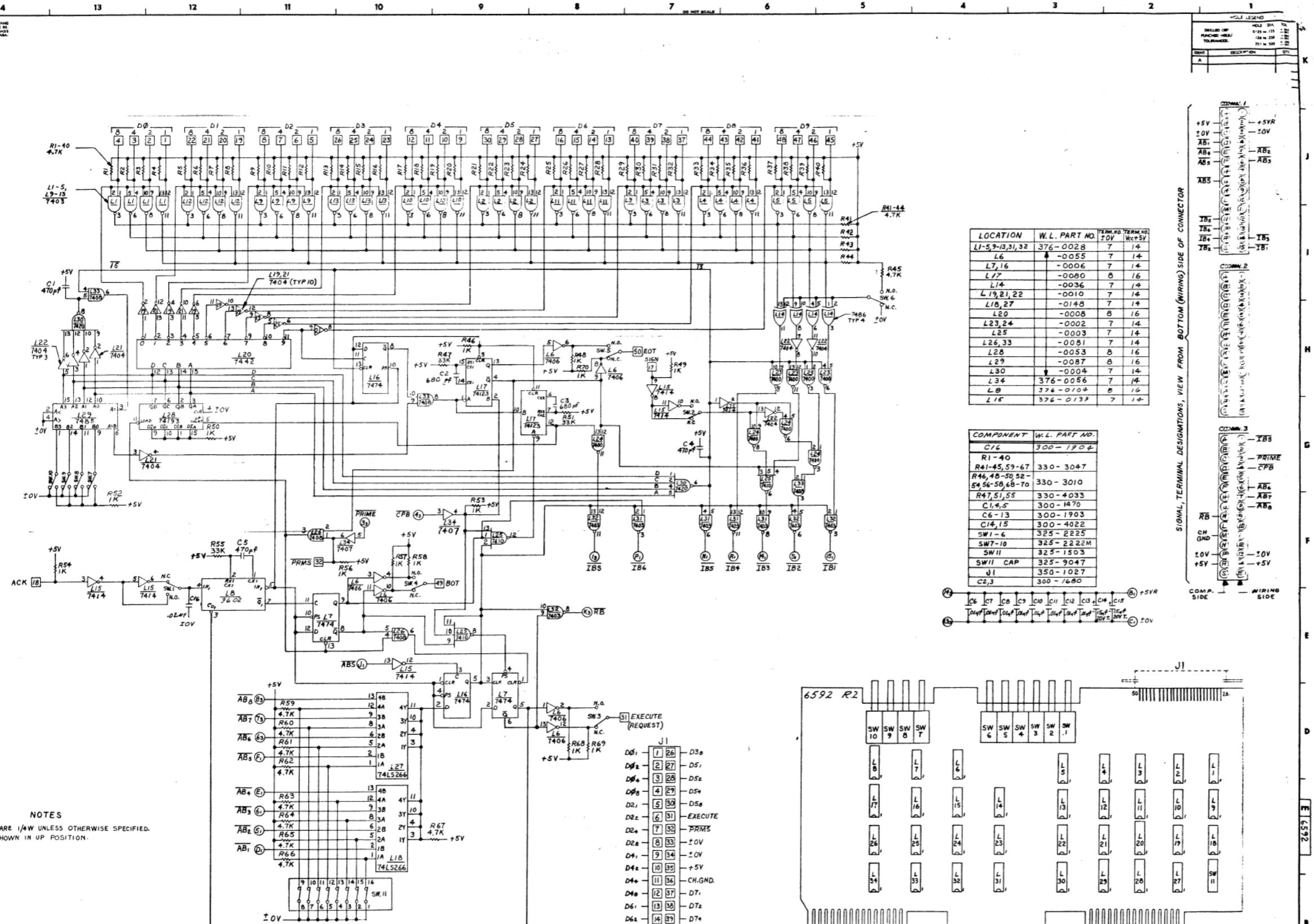
MATERIAL	DESCRIPTION
BY DATE APPROVED BY DATE	
DWN JK 10-5-74 E ENGR 1-1-74	
CHK // M ENGR	
E.C CONTROL MFG ENGR	
TITLE SCHEMATIC LOGIBLOC 6561 DOUBLE BUFFERD TYPEWRITER/ PLOTTER	
SCALE SHT G OF 8	
WAING PART NUMBER 210-6561-1	
SIZE DRAWING NUMBER REV	

WAING PART NO	ITEM	QTY	NAME
OB1	FIRST USED ON	ASSY USED ON	
OB2			
OB3			
OB4			
OB5			
OB6			
OB7			
OB8			
RB			
CH. GND			
MATERIAL	SEE CHART		
	SEE ENGR SPECIFICATIONS NO		
FINISH			

**WANG**

LABORATORIES, INC.  
TEWKSBURY MASS. U.S.A.





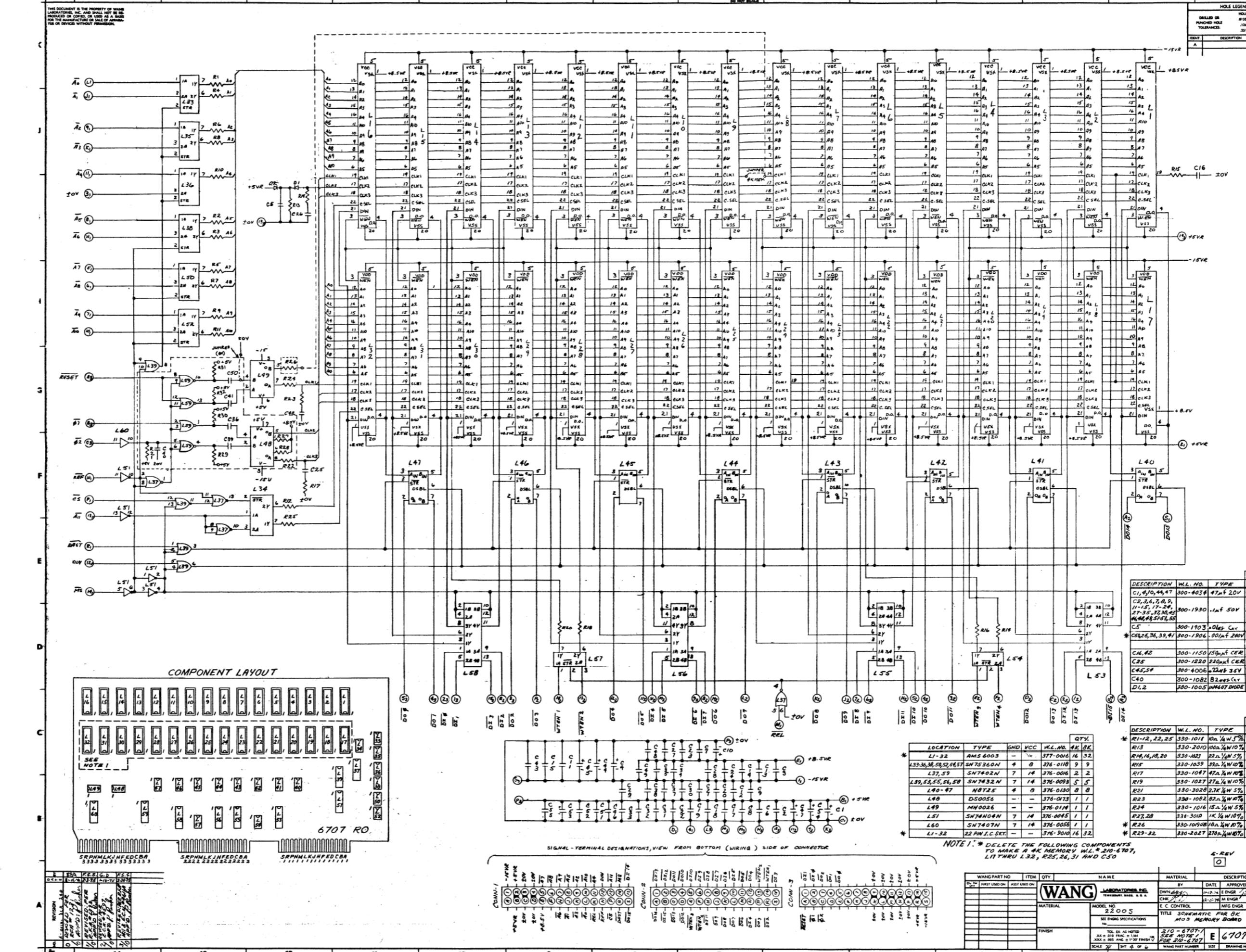
## NOTES

1. ALL RESISTORS ARE 1/4W UNLESS OTHERWISE SPECIFIED.
2. ALL SWITCHES SHOWN IN UP POSITION.

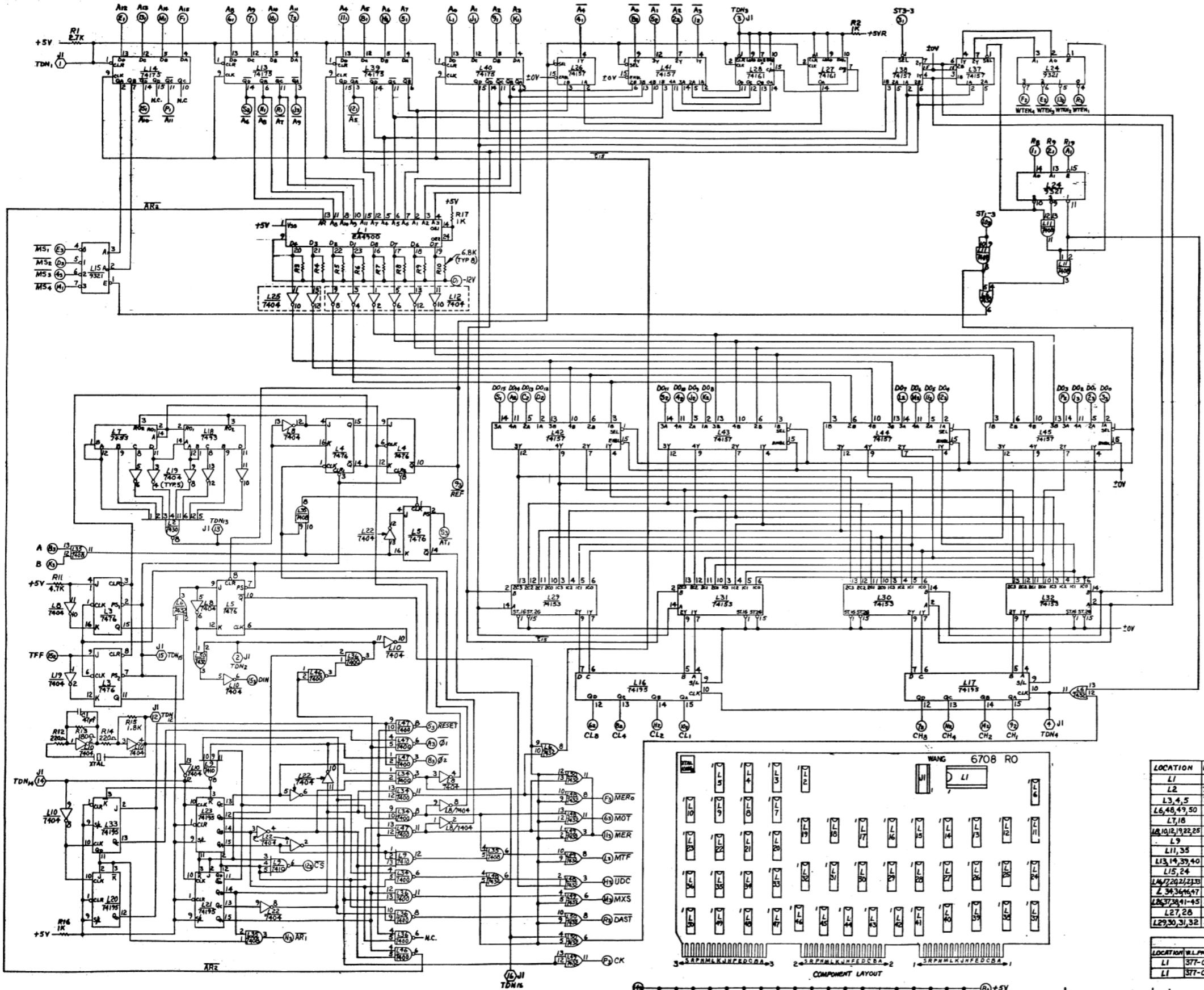
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3	10	11	12	13	14	15	16	17	18
4	19	20	21	22	23	24	25	26	27
5	28	29	30	31	32	33	34	35	36
6	37	38	39	40	41	42	43	44	45
7	46	47	48	49	50	51	52	53	54
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12	91	92	93	94	95	96	97	98	99
13	100	101	102	103	104	105	106	107	108
14	109	110	111	112	113	114	115	116	117

MAY 19 1977

WANG PART NO.	ITEM	QTY	NAME	MATERIAL	MANUFACTURE
2252A	FIRST USED ON	ASSEMBLED ON	DATE	BY	DATE
12-20-74	12-20-74	12-20-74	CH 202	12-20-74	12-20-74
LABORATORIES, INC. TELETYPE DIVISION U.S.A.					
ECC CONTROL					
SEE ENGRG SPECIFICATIONS					
FINISH					
TOP EX AN METAL TOP EX FRAC 2.7MM TOP EX PLASTIC 1.5MM					
SCALE 1:100					
210-6592 E L-32 J					
WANG PART NUMBER SIZE DRAWING NUMBER REV					



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HOLE LEGEND			
	HOLE	DIA.	TOL.
SIMPLY DR.		.451 to .125	+ .002 - .001
PANCHED HOLE		.136 to .250	+ .002 - .001
TOLERANCER		.251 to .300	+ .002 - .001
DEPT.	DESCRIPTION	QTY	
A			

CONTINUATION	
R19	A(1) R8
+8V	B(2) R9
20V	C(3) ST3-3
-12V	D(4) A4
Ain	E(5) A7
AG	F(6) A5
AH	G(7) A7
AI	H(8) A8
AN	I(9) A2
AO	J(10) A10
AM	K(11) A4
AN	L(12) A5
AN	M(13) A13
AT	N(14) MS4
DORG	S(15) A10

D0	(M) 1	-D05
CHe	(M) 2	-DO+
D03	(P) 3	-WTEN2
WTEN	(R) 4	-CH2
A6	(S) 5	-TFF
CONN.3		
M1	(A) 1	-DO2
ME	(B) 2	-DO1
	(C) 3	-DO0
M52	(D) 4	-M53
M51	(E) 5	-RESET
MERO	(F) 6	-MOT
UDC	(H) 7	-AI1
A9	(J) 8	-A
B-	(K) 9	-REF
MTF	(L) 10	-STI-3
M05	(M) 11	-MER
AT1	(N) 12	-CS
CK	(P) 13	-20V
DAST	(R) 14	+5V
AT1	(S) 15	-DIN
COMP.		
SIDE	T	T
		WIRING SIDE

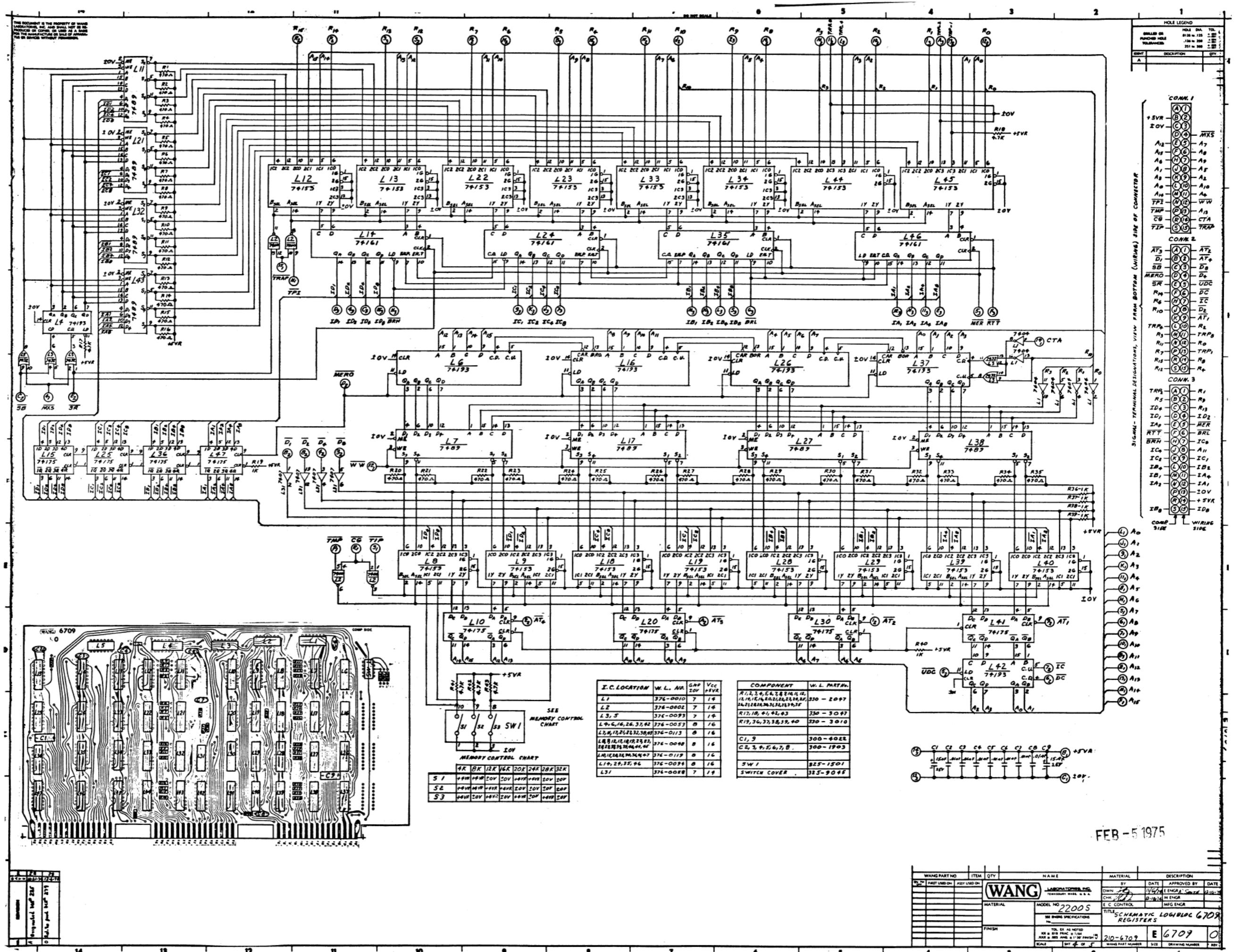
<u>COMPONENT</u>	<u>W.L. PART NO.</u>
<i>R1</i>	330-3027
<i>R2,16,17</i>	330-3010
<i>R3-10</i>	330-3068
<i>R11</i>	330-3047
<i>R12,14</i>	330-2022
<i>R13</i>	330-2018
<i>R15</i>	330-3018
<i>C1</i>	300-1047
<i>C2-18</i>	300-1900
<i>C19,20,21</i>	300-4022
<i>X7A</i>	321-0008
<i>8 PIN SOCKET (U)</i>	376-9003
<i>16 PIN SOCKET (TQ)</i>	376-9002

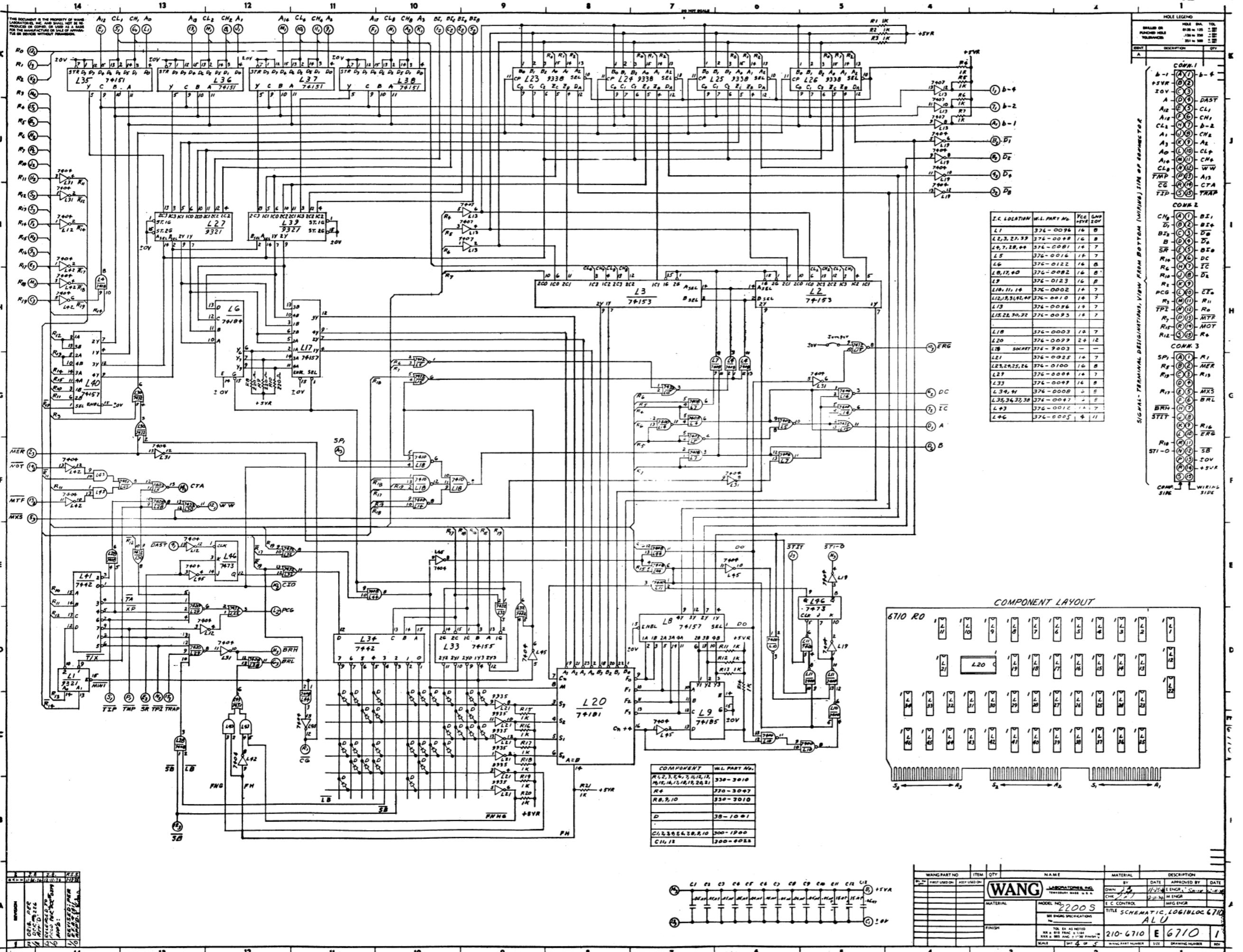
LOCATION	W.L. PART NO.	TERM. NO. 10V	TERM. NO. K+5V 12-16V
L1	SEE CHART		
L2	376-0031	7	14
L3,4,5	376-0007	13	5
6,8,45,50	376-0093	7	14
L1,18	376-0011	10	5
L12,19,22,25	376-0010	7	14
L9	376-0003	7	14
L1,35	376-0081	7	14
L13,19,39,40	376-0119	8	16
L5,24	376-0096	8	16
L4,22,23,24	376-0097	8	16
L3,34,46,47	376-0002	7	14
L3,37,34,41-45	376-0082	8	16
L7,28	376-0094	8	16
29,30,31,32	376-0048	8	16

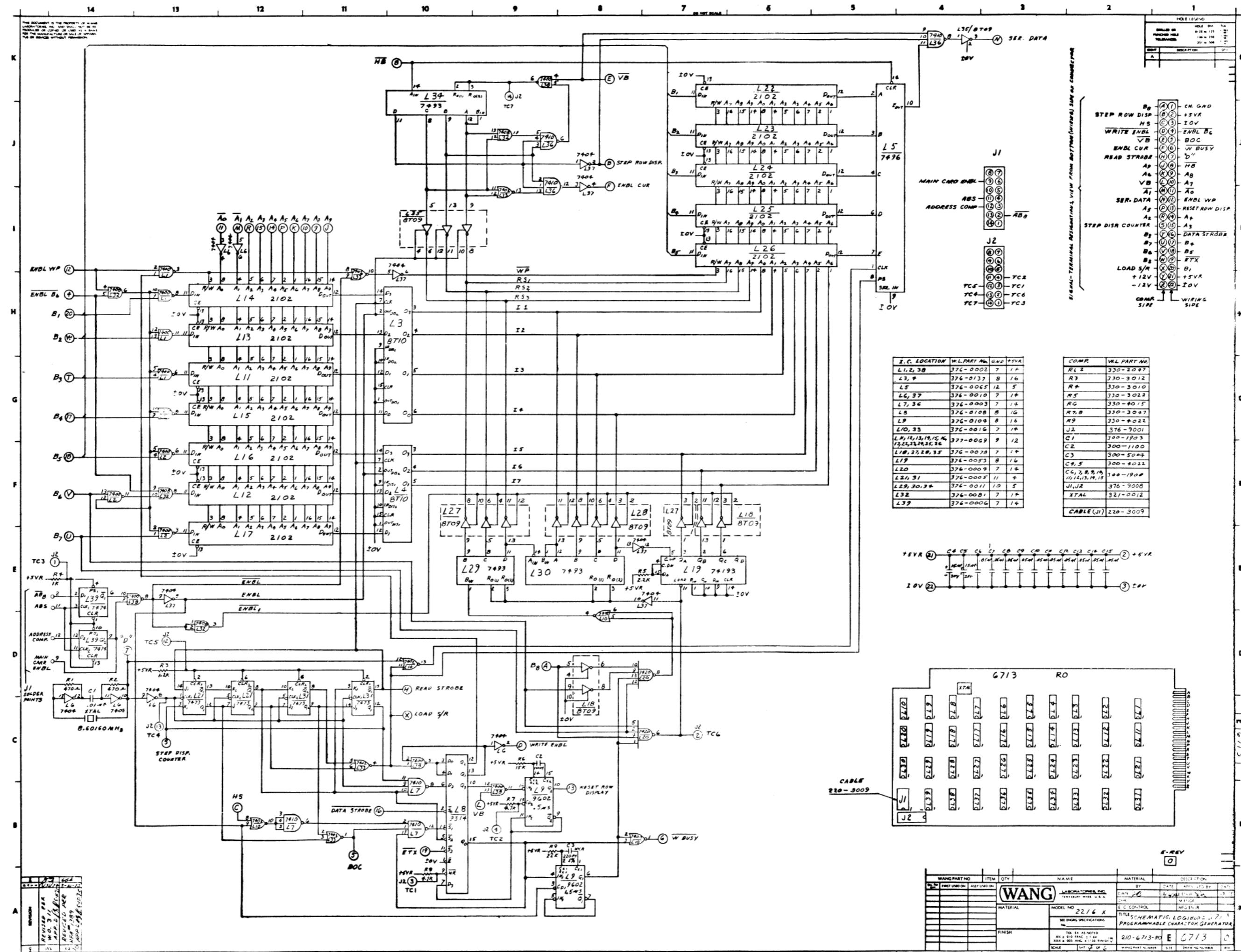
CHART		
LOCATION	ULL PART NO.	DESCRIPTION
LI	377-0259	WITHOUT MATRIX OPTION
LI	377-0244	WITH MATRIX OPTION

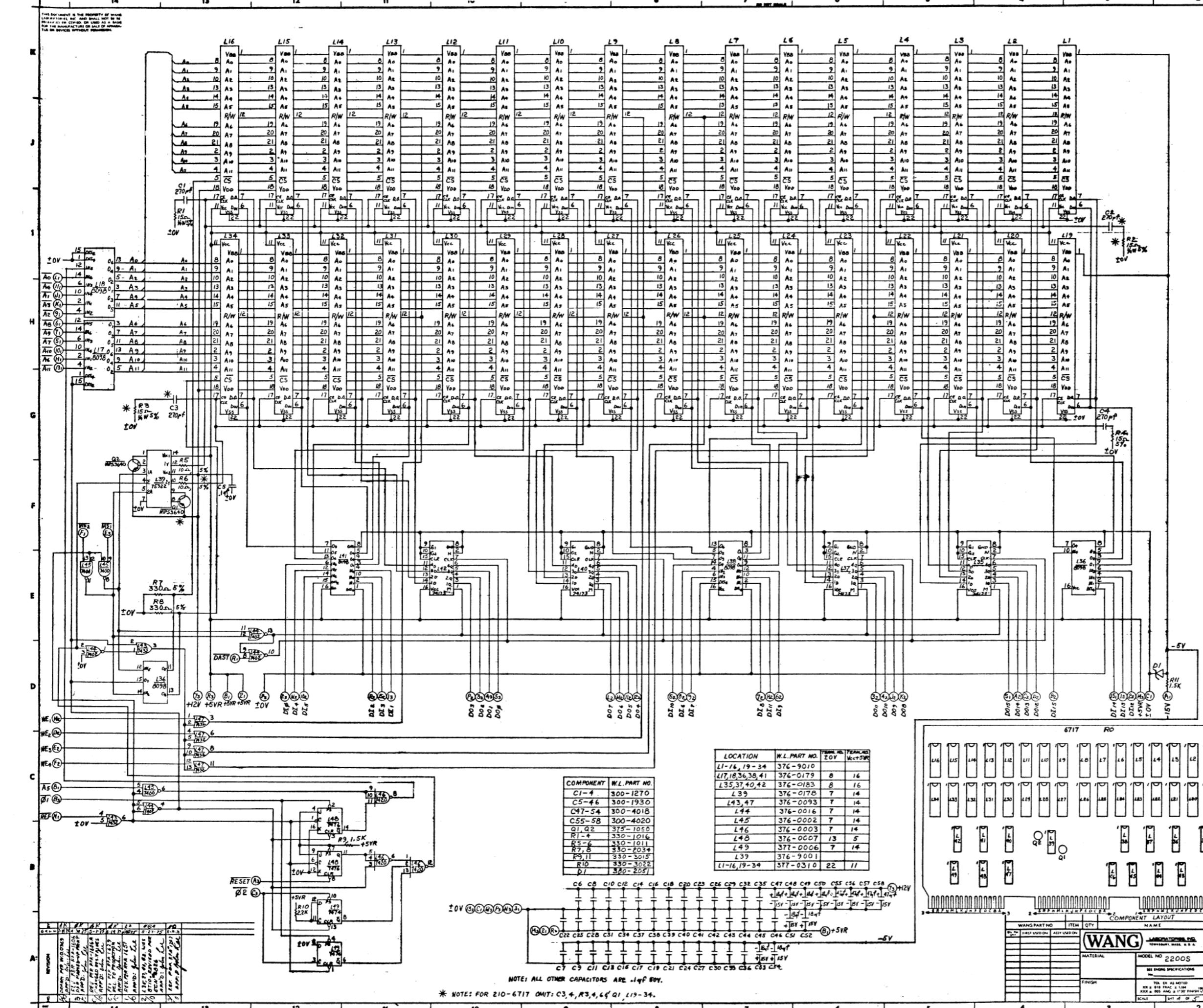
FEB - 5 1975

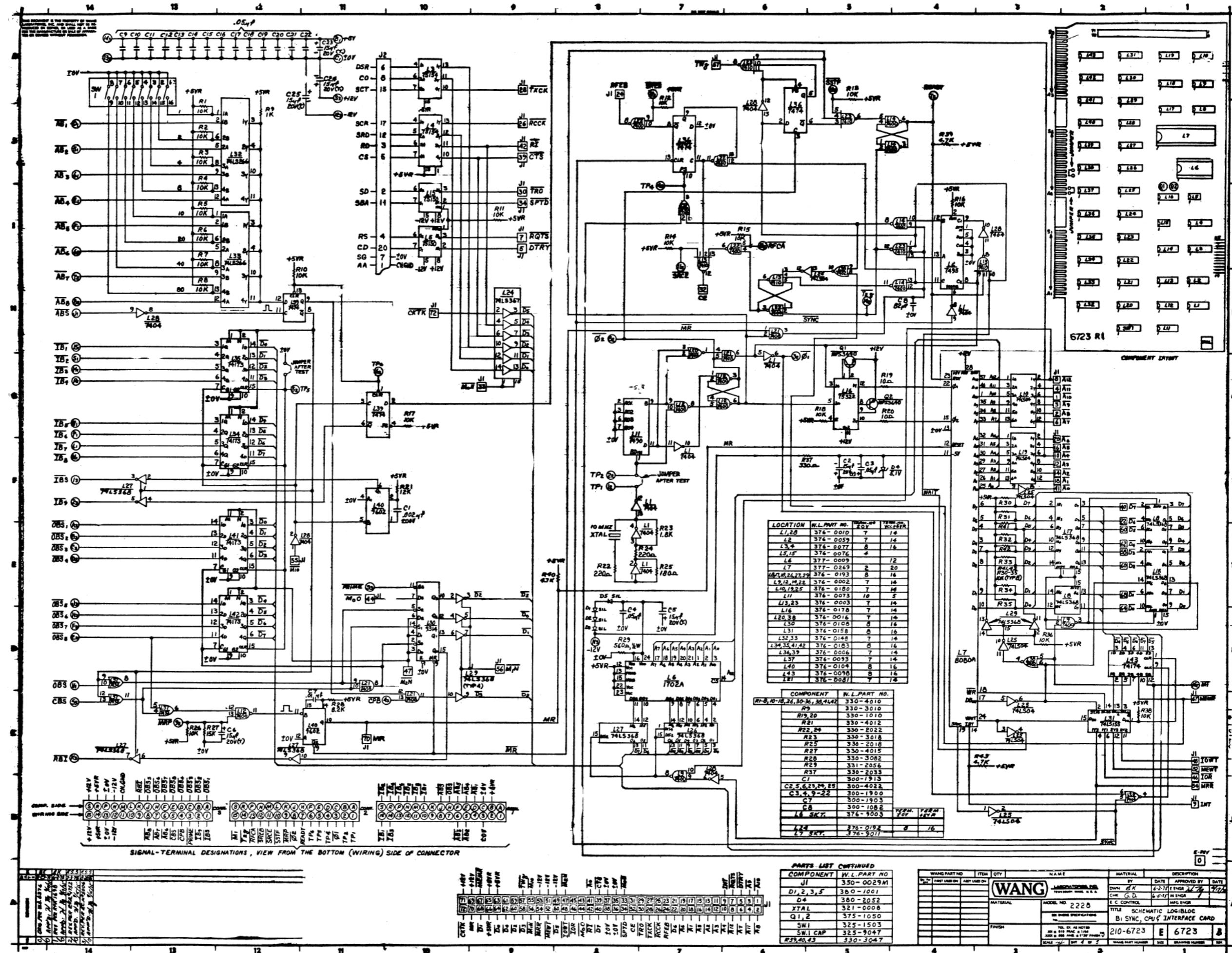
WANG PART NO	ITEM QTY	NAME	MATERIAL	DESCRIPTION		
DATE ISSUED	DATE RECEIVED		BY	DATE	APPROVED BY	DATE
FIRST USED ON	ASBY USED ON	<b>WANG</b> LABORATORIES, INC. TENNESSEE, MADE U.S.A.	DWN	0-17-76	E ENGR P Smit	4-1-76
			CHE	2-17-76	M ENGR	
			E C CONTROL		MFG ENGR	
			TITLE SCHEMATIC LOGIC/BLOC # 6708 2K X 8 MEMORY CONTROL			
			SEE ENGRS SPECIFICATIONS			
			TOL EX AS NOTED			
			EX 8 .005 MAX .002 MIN J001 2 INCH 2 1/2 INCH PREPINT			
			SCALE	SHW 45 OF 3"	WANG PART NUMBER	SIZE
					210-6708	E 6708
						REV

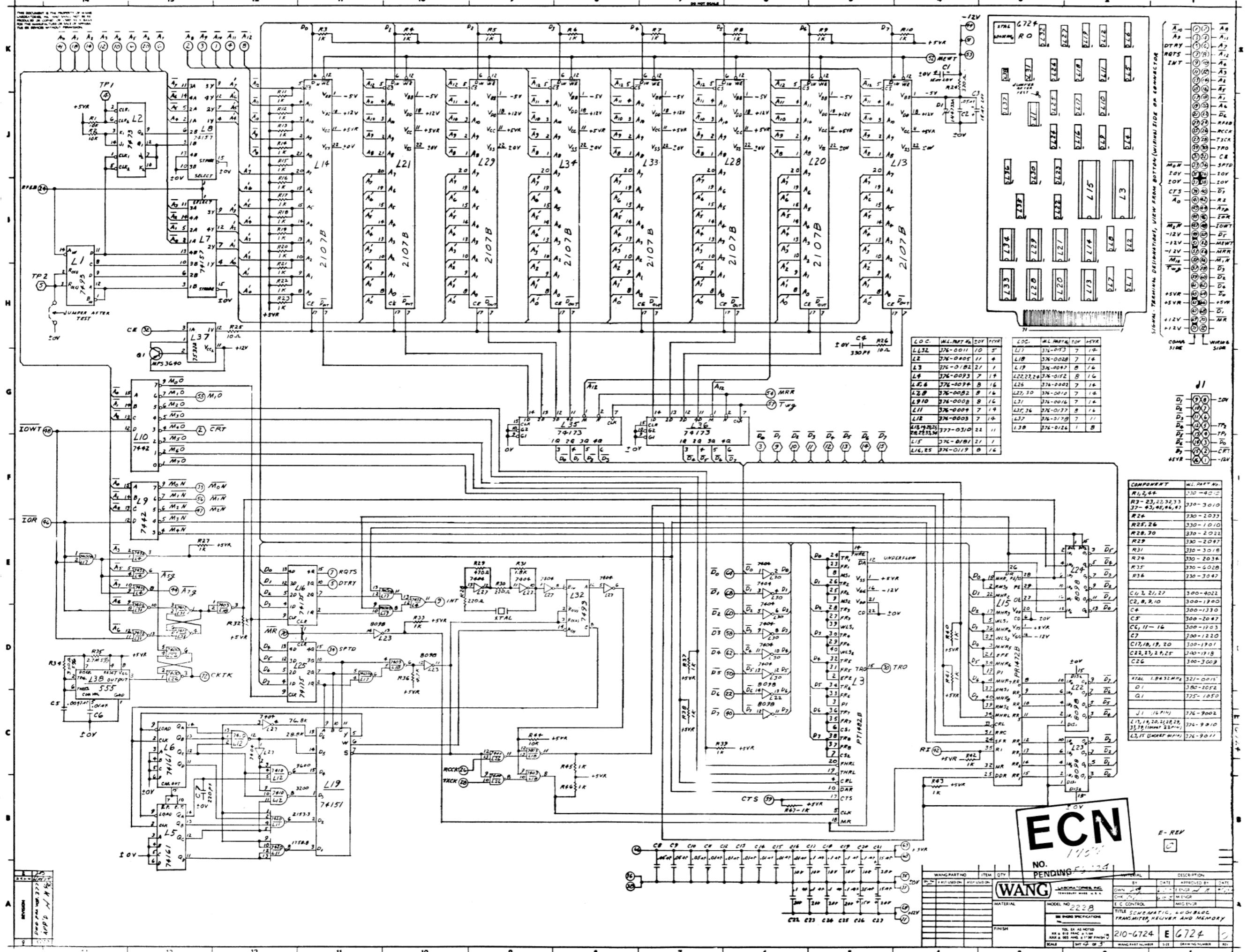




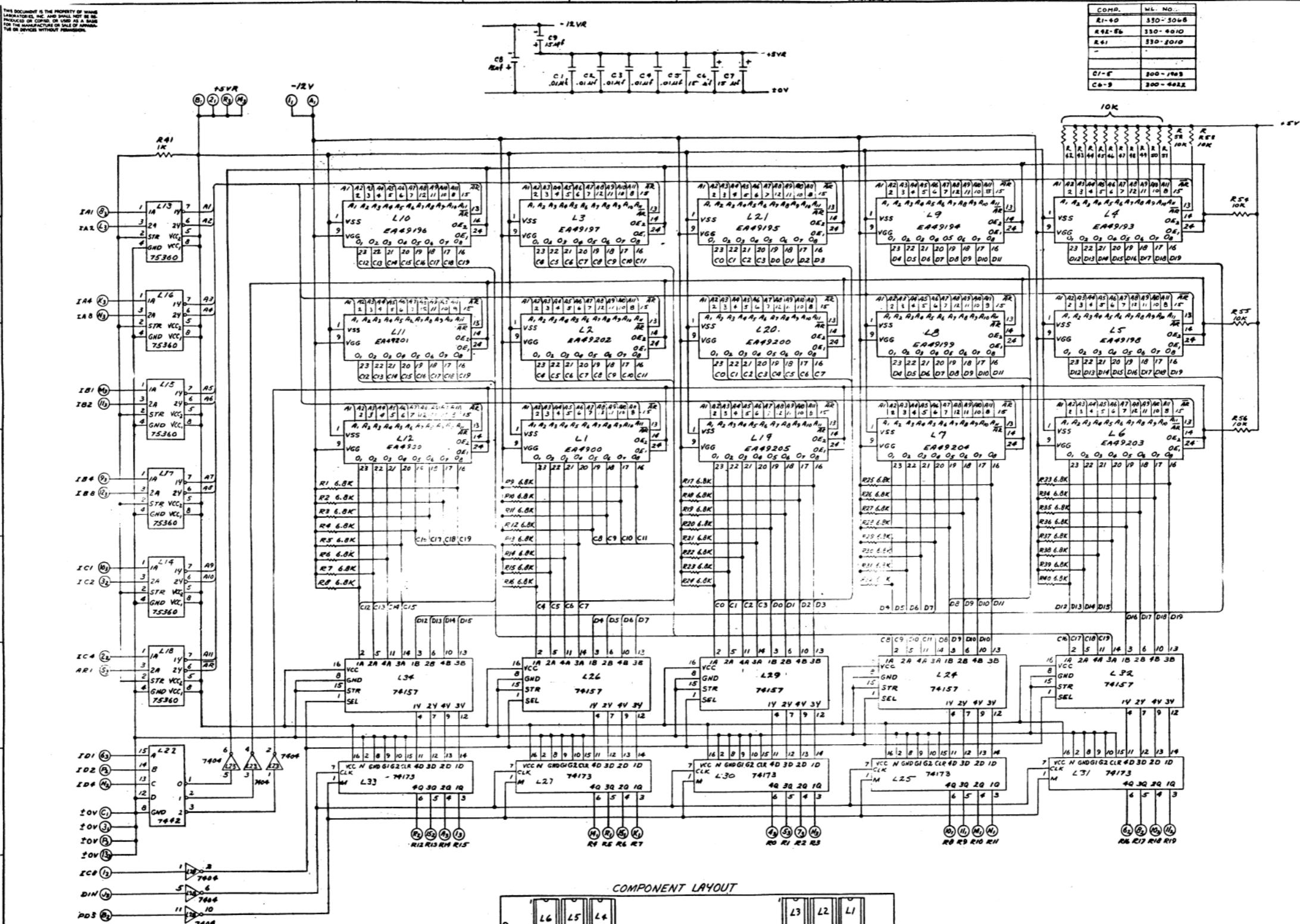




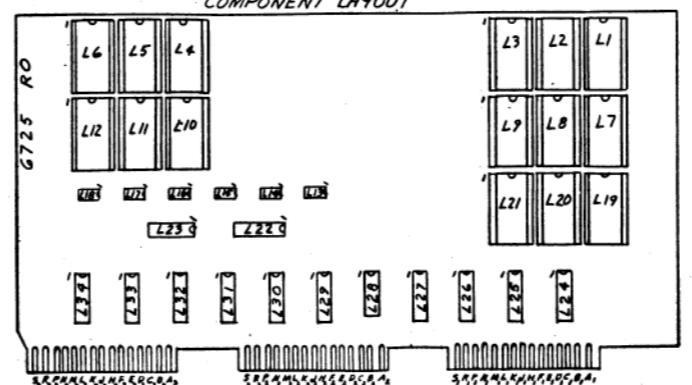




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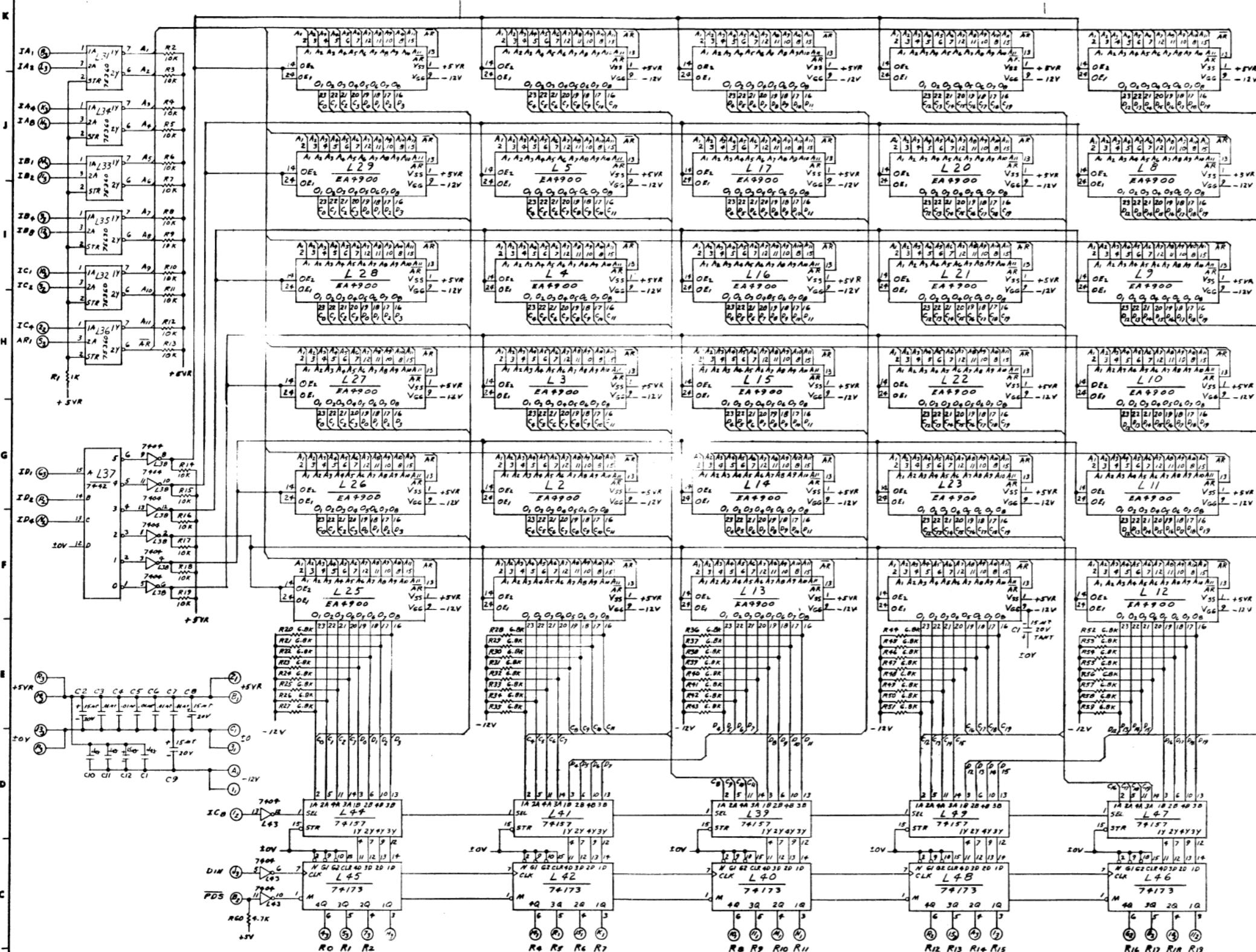
## COMPONENT LAYOUT



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555	555	555	555

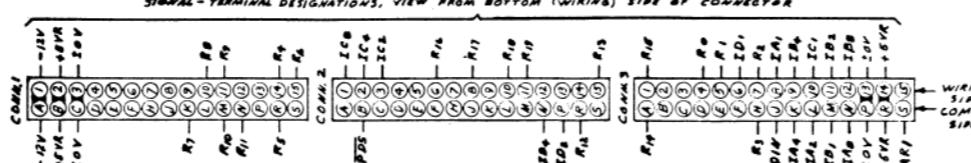
WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION		
10-200	FIRST USED ON	ASY USED ON		BY	DATE	APPROVED BY	DATE
			<b>WANG</b>	DWNR	E 525	11-18-64	M ENGR
			LABORATORY INC.	CHE	11-3-74	M ENGR	12-6-74
			TELETYPE MFG. CO. U.S.A.				
	MATERIAL		MODEL NO	22003	EIC CONTROL		
			SEE ENGR SPECIFICATIONS		TITLE SCHEMATIC FOR 6725		
			REVISION		EN 4900 ROM BOARDED		
	FINISH		TOL AS INDICATED				
			RK 2 .000 .005 .000	FRAC 2 1/16			
			RK 2 .005 .000 .000	AMG 2 1/16 FINISH			
			SCALE 1/4"	4 OF 4	WANG PART NUMBER	SIZE	DRAWING NUMBER
							REV

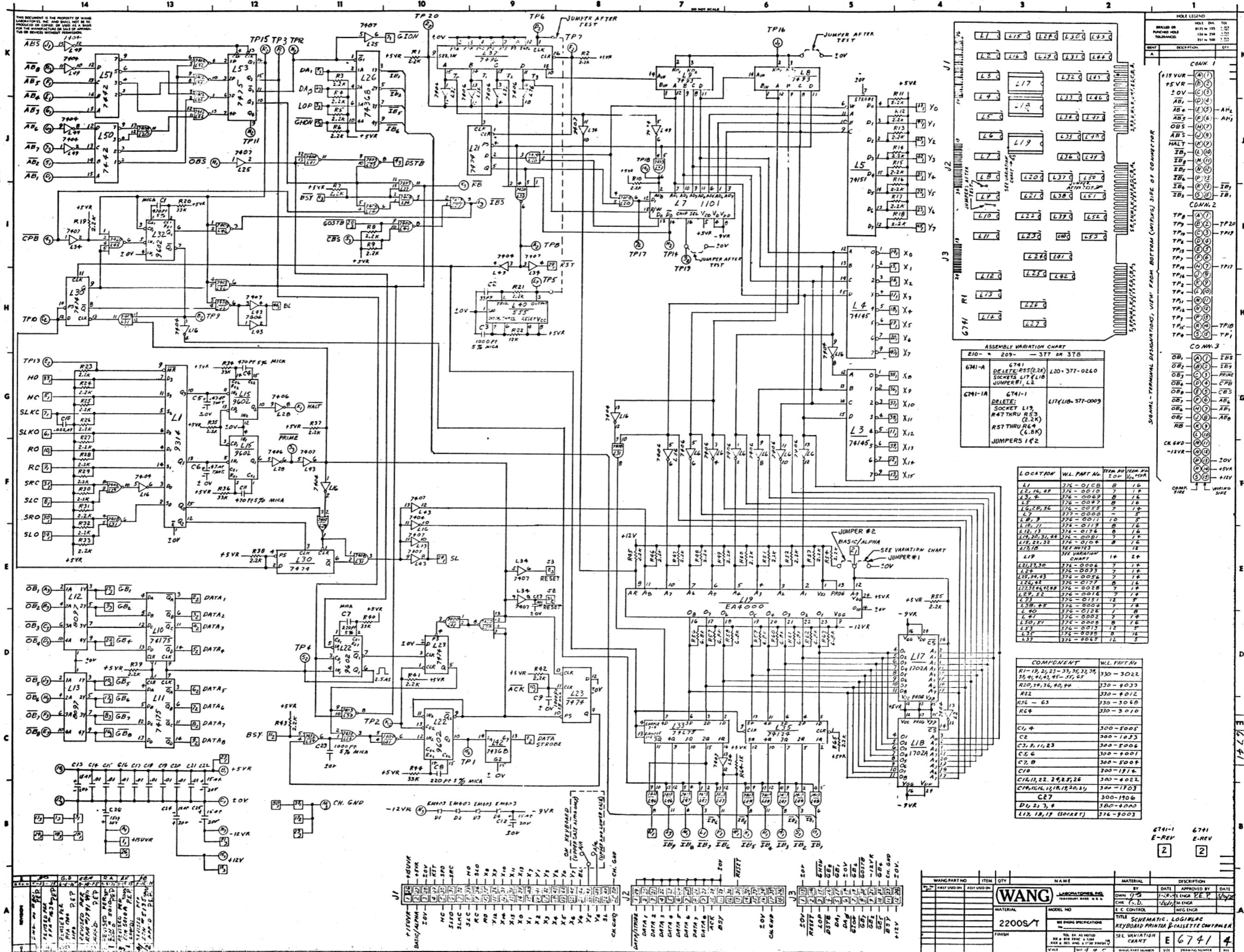
FEB - 5 1975

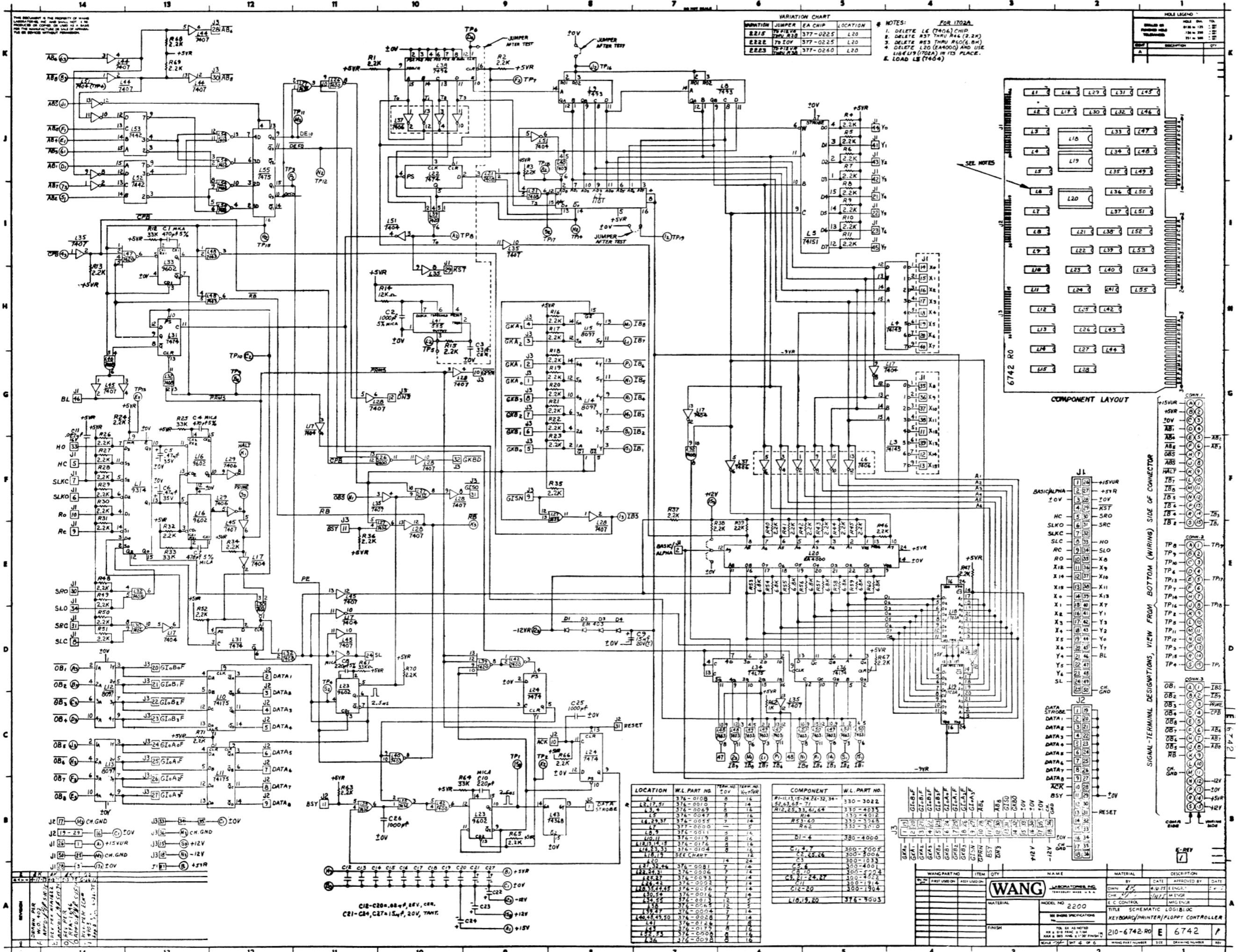


REVISION		PER ECA 470-3 AND 470-4 APP C PUBLICATION	R55 2/27/55 ENCL.	SD.
REVISED		ECA 470-3 APP C PUBLICATION		
REVISED		ECA 470-4 APP C PUBLICATION		
REVISED		ECA 470-3 APP C PUBLICATION		
REVISED		ECA 470-4 APP C PUBLICATION		

SIGNAL - TERMINAL DESIGNATIONS, VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR







1

WANG

LABORATORIES INC.

TELETYPE WIRELESS U.S.A.

CIRCLE 8

1

MATERIAL

MODEL NO 2200

IN Schematic LOGIC

KEYBOARD/PRINTER/FLOPPY CONTROLLER

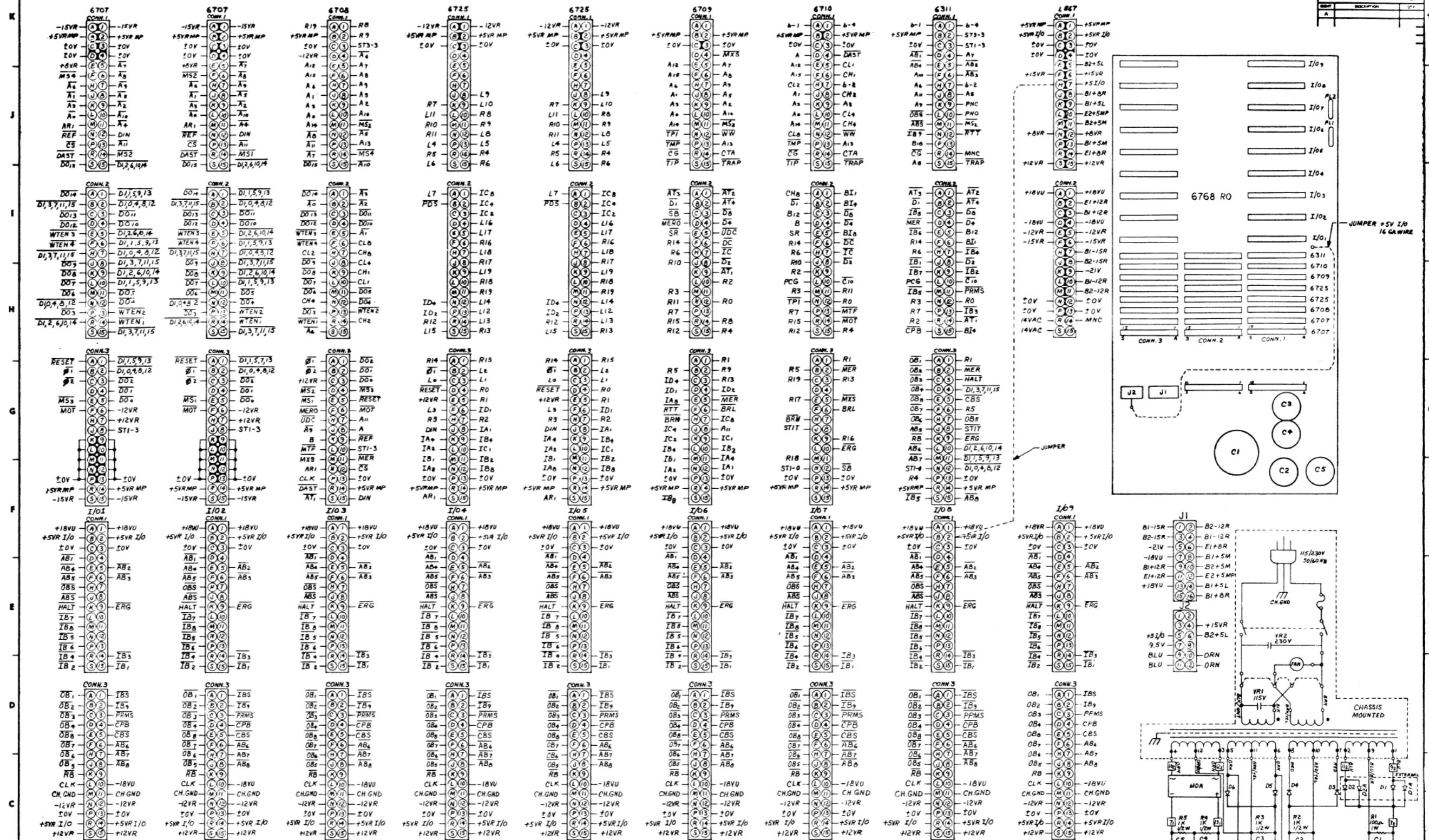
FINISH

210-6742-RO

E 6742

1

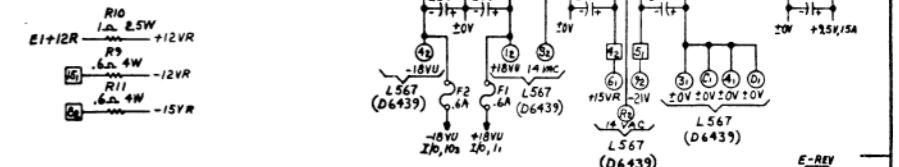
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FOR THE MANUFACTURE OR SALE OF APPARAU-  
TUS OR SERVICES WITHOUT PERMISSION.



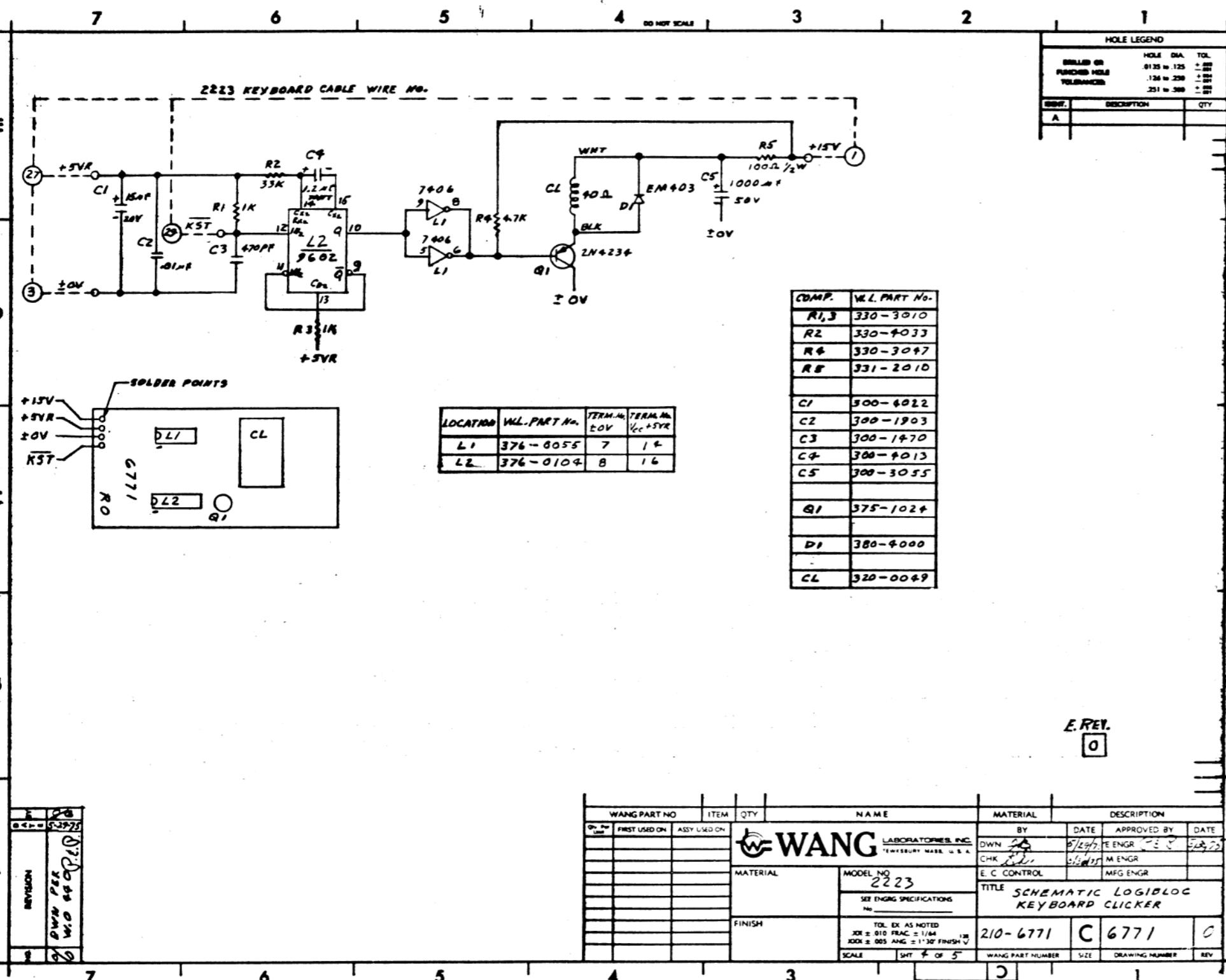
**NOTE:** FOR POWER SUPPLY REGULATOR SEE DWG. DG439  
FOR HEAT SINK ASSEMBLY SEE DWG. CG627-8  
FOR INTERCONNECTION DIAGRAM SEE DWG. CG800-13

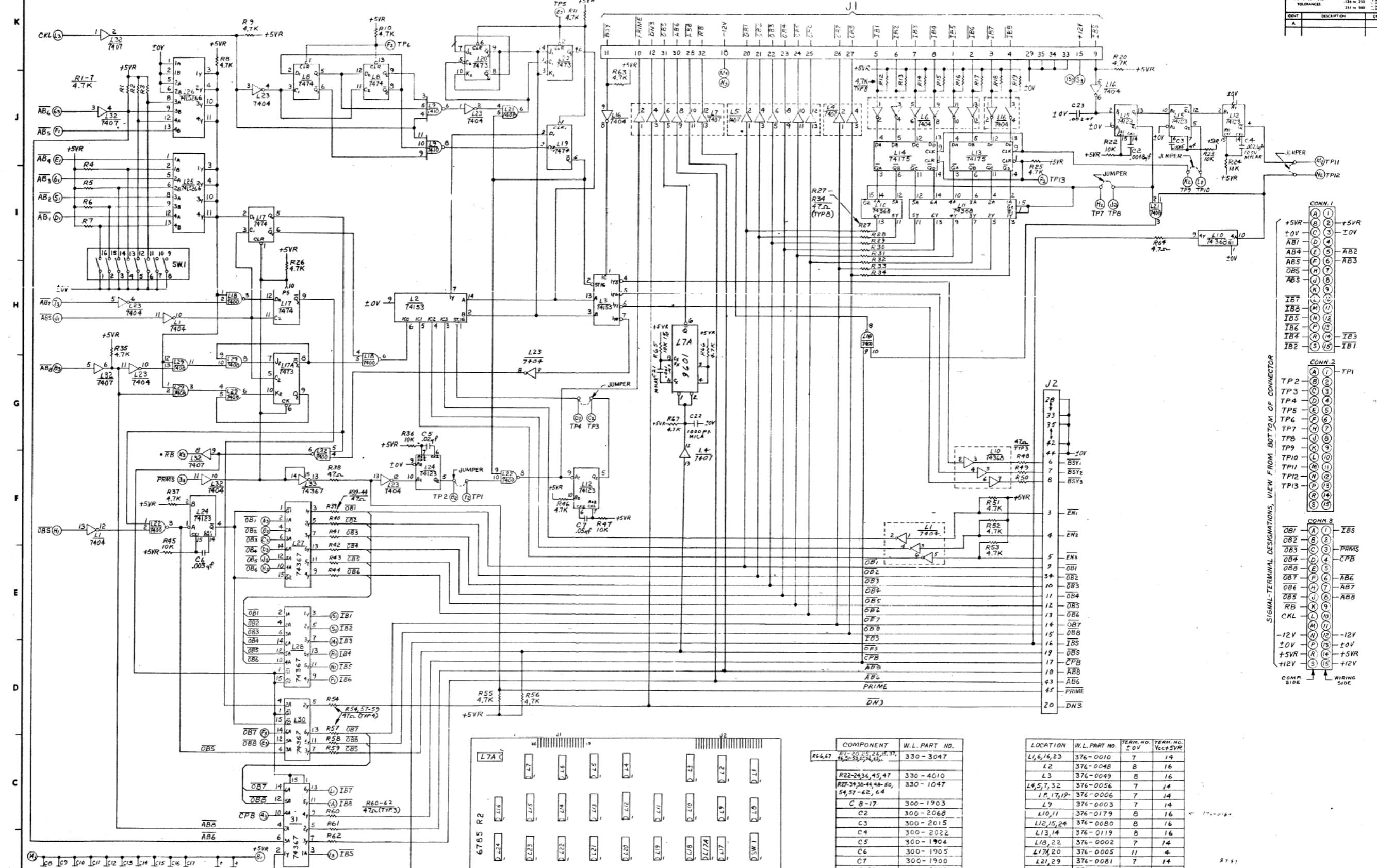
COMPONENT	W.L.PART NO.
91	332-2010
3,4,5	331-3010
4	
9,11	334-0016
R10	334-0014
M22,R24	380-3000
4,5,6	380-3002
Z1	300-3050
2,5	300-3068
3,4	300-3019
1,2	360-1006
C1P	360-0006
R1	380-5000
R2	380-5001
USS	654-1145
J1	654-1177
J2	654-1172
DNW	350-0011

VR1 FOR 130V UNITS  
VR2 FOR 250V UNITS



WANG PART NO	ITEM	QTY.	NAME	MATERIAL	DESCRIPTION	
50-27	FIRST USED ON	ASSEMBLED ON	<b>WANG</b>	LABORATORIES INC TENNESSEE WIRE & CABLE	BY	DATE
				DWY	5-5-74	ENGR PES
				CHK	G-6-74	MNGR
	MATERIAL	MODEL NO	WCS 2200	E C CONTROL	TITLE	
					WCS MOTHERBOARD	
			SEE ENGINE SPECIFICATIONS			
	FINISH		TOL. BY AS-NOTED	210-6768	E	6768
			KA-BB FRAC E 17/64			0
			KA-BB 95 AND E 17/64			

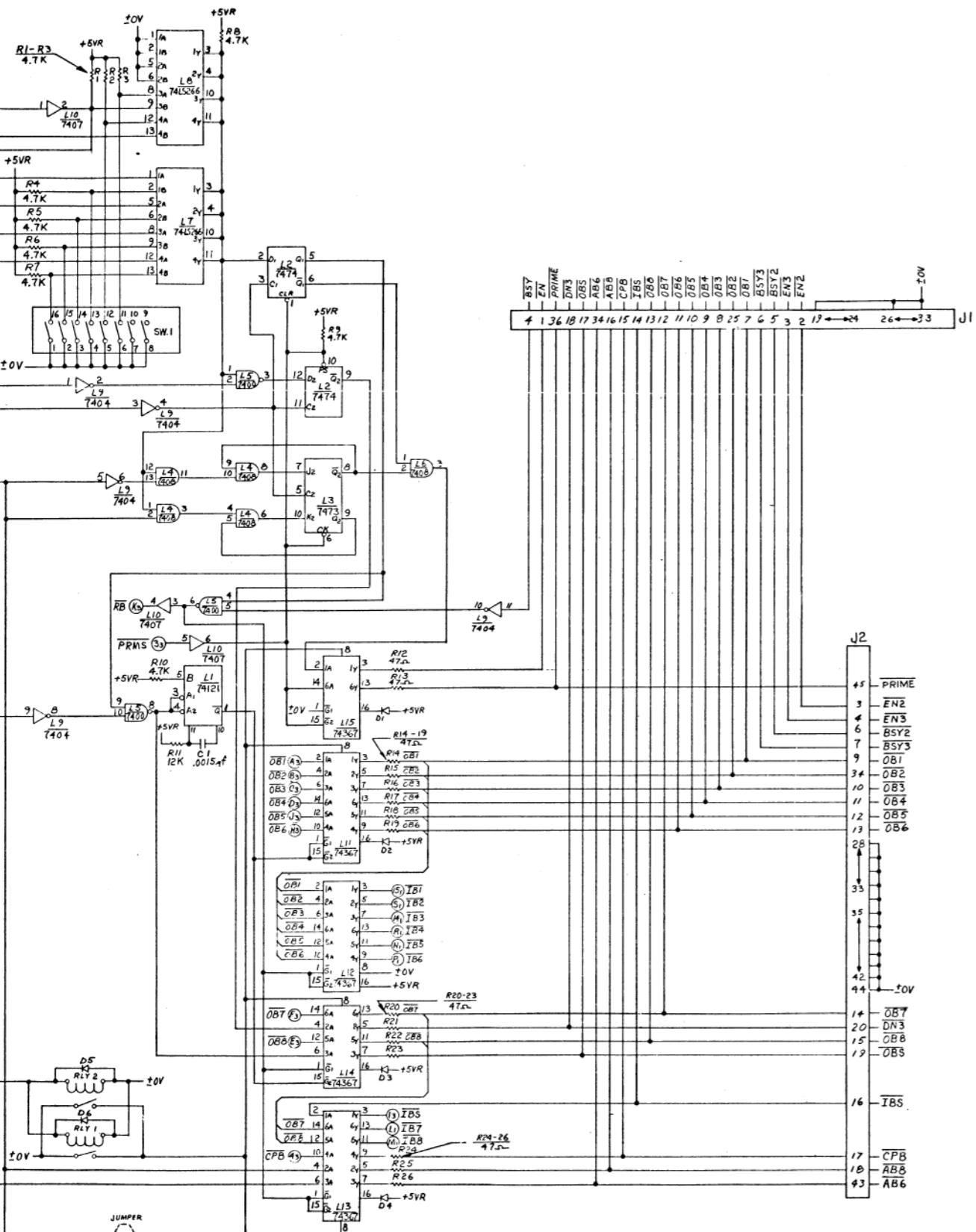




COMPONENT	W.L. PART NO.
R21-2436, 45, 47	330- 4010
R22-34, 36-44, 48-50, 54, 57-62, 64	330- 1047
C 8-17	300-1903
C2	300-2068
C3	300- 2015
C4	300- 2022
C5	300- 1904
C6	300- 1905
C7	300- 1900
C19, 20	300- 4022
C21	300- 2010
C23	300- 1913
R65	333- 0011
SW. I	325- 1503
SW. CAP	325- 9047
C22	300- 5006
J1	350- 1038
J2	350- 1027

CATION	W.L. PART NO.	TERM. NO. T.O.V	TERM. NO. VCO-SVR
6,6,23	376-0010	7	14
L2	376-0048	8	16
L3	376-0049	8	16
5,7,32	376-0056	7	14
18,17,19	376-0006	7	14
L9	376-0003	7	14
10,11	376-0179	8	16
12,15,24	376-0080	8	16
13,14	376-0119	8	16
18,22	376-0002	7	14
17,20	376-0005	11	4
21,29	376-0081	7	14
12,26	376-0148	7	14
28,30,31,33	376-0176	8	16
4,7,4	376-0086	7	14

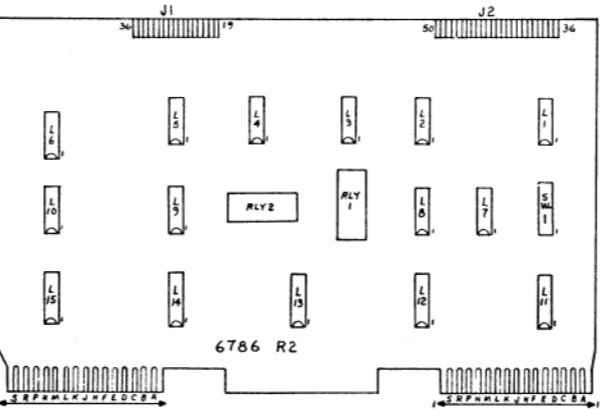
WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
FIRST USED ON	ASSEMBLED ON			BY	DATE APPROVED BY DATE
Sp. No. Unit				DWN	7/10/63 E ENGR 7/10/63 S/ly
				CHE	7/10/63 M ENGR
				E C CONTROL	MFG ENGR
LABORATORIES, INC.					
WESTSBURY MADE U.S.A.					
MATERIAL		MODEL NO.	2230 MA	TITLE SCHEMATIC LOGIBLOC	
		MECHS SPECIFICATIONS NO.		DAISY CHAIN MULTIPLEXER	
FINISH		TOP EX AS NOTED EX 2 810 FRAC 1/4 IN EX 2 810 FRAC 1/4 IN FINISHED		210-6785	E 6785
SCALE		INCHES .125 IN. = 1 IN		WANG PART NUMBER	PRINTING NUMBER

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LOCATION	W.L. PART NO.	TERM. NO.	TERM. NO.
L1	376-0051	7	14
L2	376-0006	7	14
L3	376-0005	11	4
L4, 6	376-0081	7	14
L5	376-0002	7	14
L7, 8	376-0148	7	14
L9	376-0010	7	14
L10	376-0056	7	14
L11-15	376-0176		

COMPONENT	W.L. PART NO.
SW 1	325-1503
SW 1 CAP	325-9047
J2	350-1027
J1	350-1038
R1-10	330-3047
R11	330-4012
R12-26	330-1047
C1	300-1907
C2-5	300-1903
C6, 7	300-4022
D1-4	380-0000
D5, 6	380-1001
RLY 1, 2	320-0047

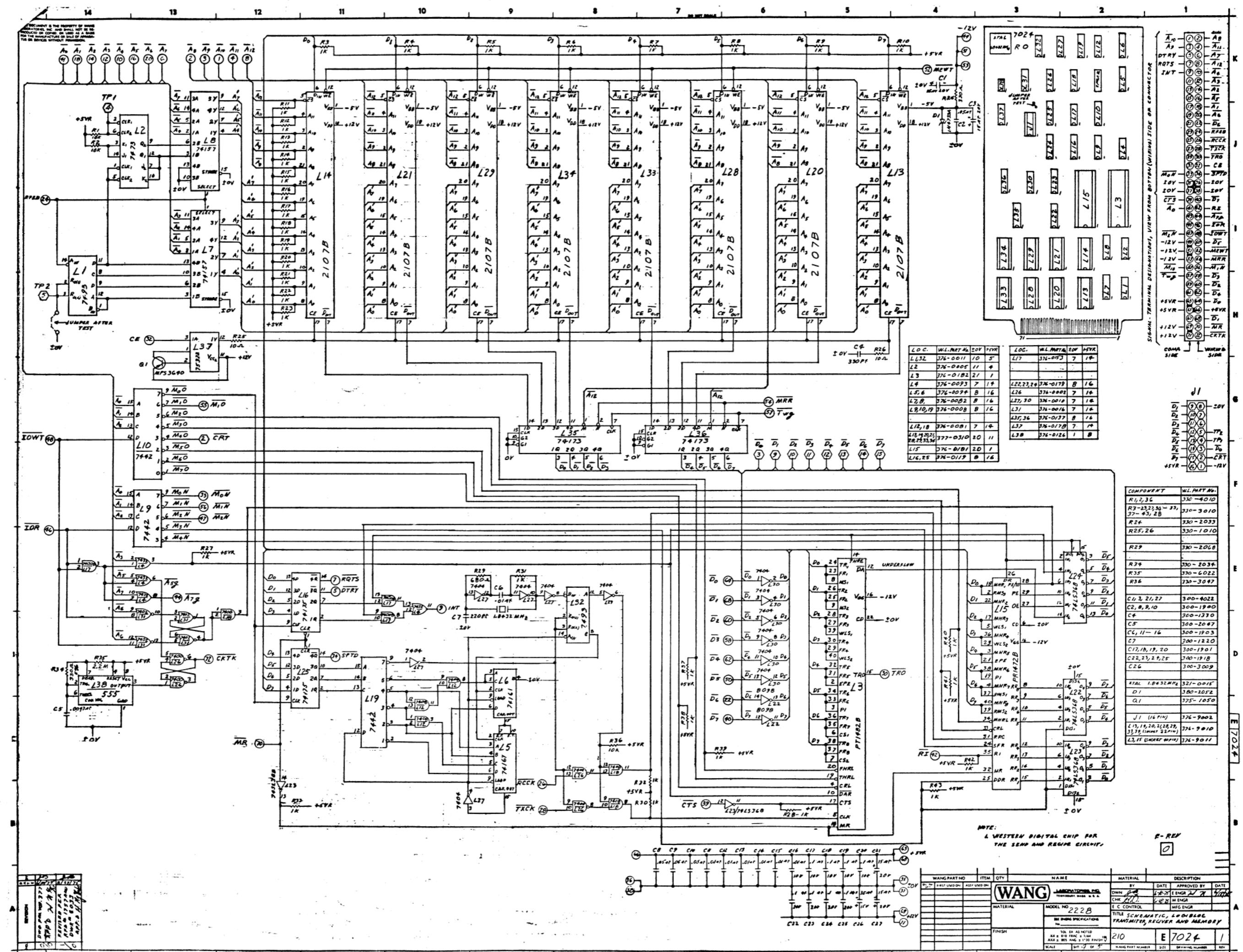
COMPONENT LAYOUT

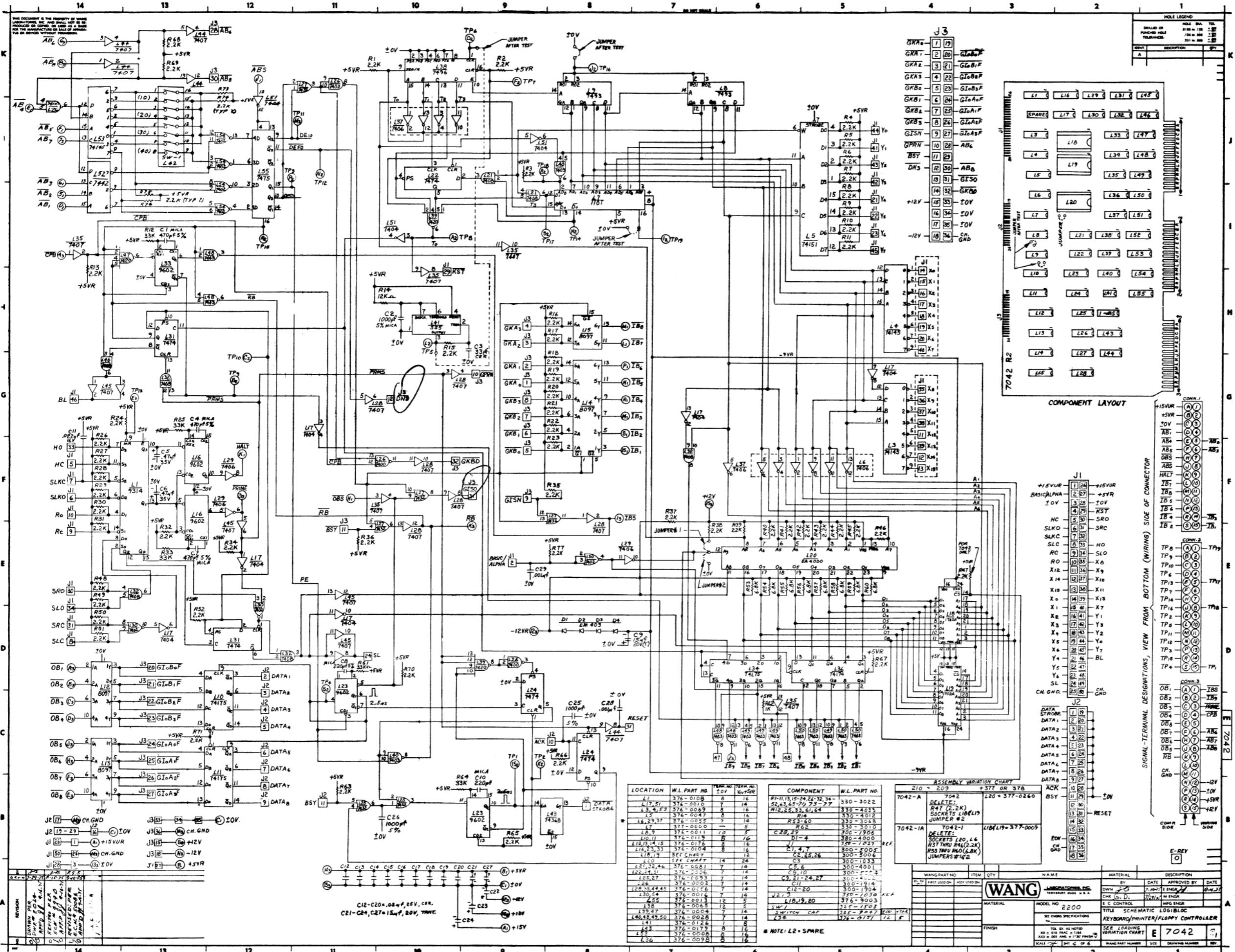


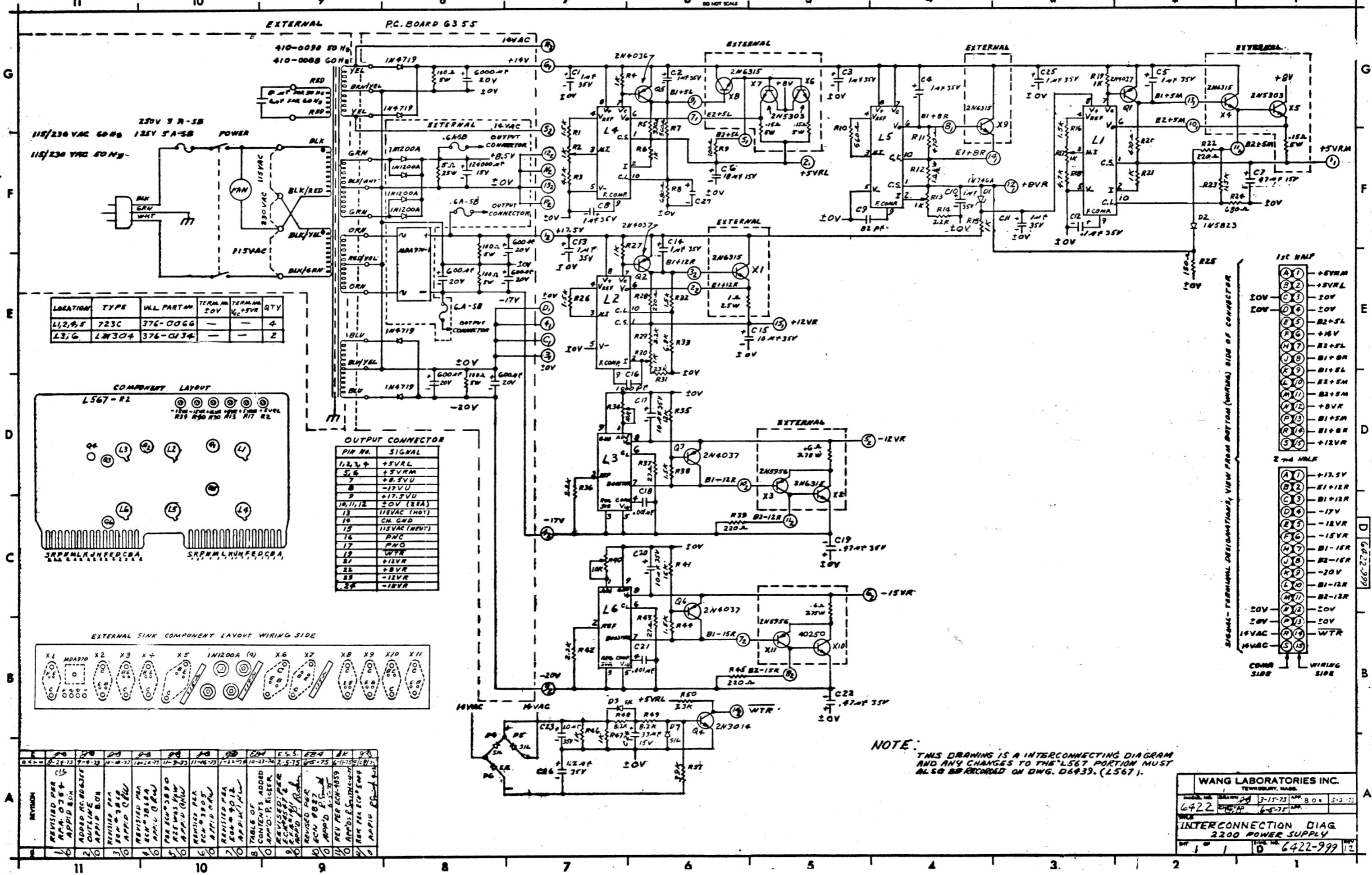
(4) C2  
T.014F  
C3  
T.014F  
C4  
T.017F  
C5  
T.014F  
C6  
T.017F  
C7  
T.017F  
+5VR  
±12V

(5)  
+12V

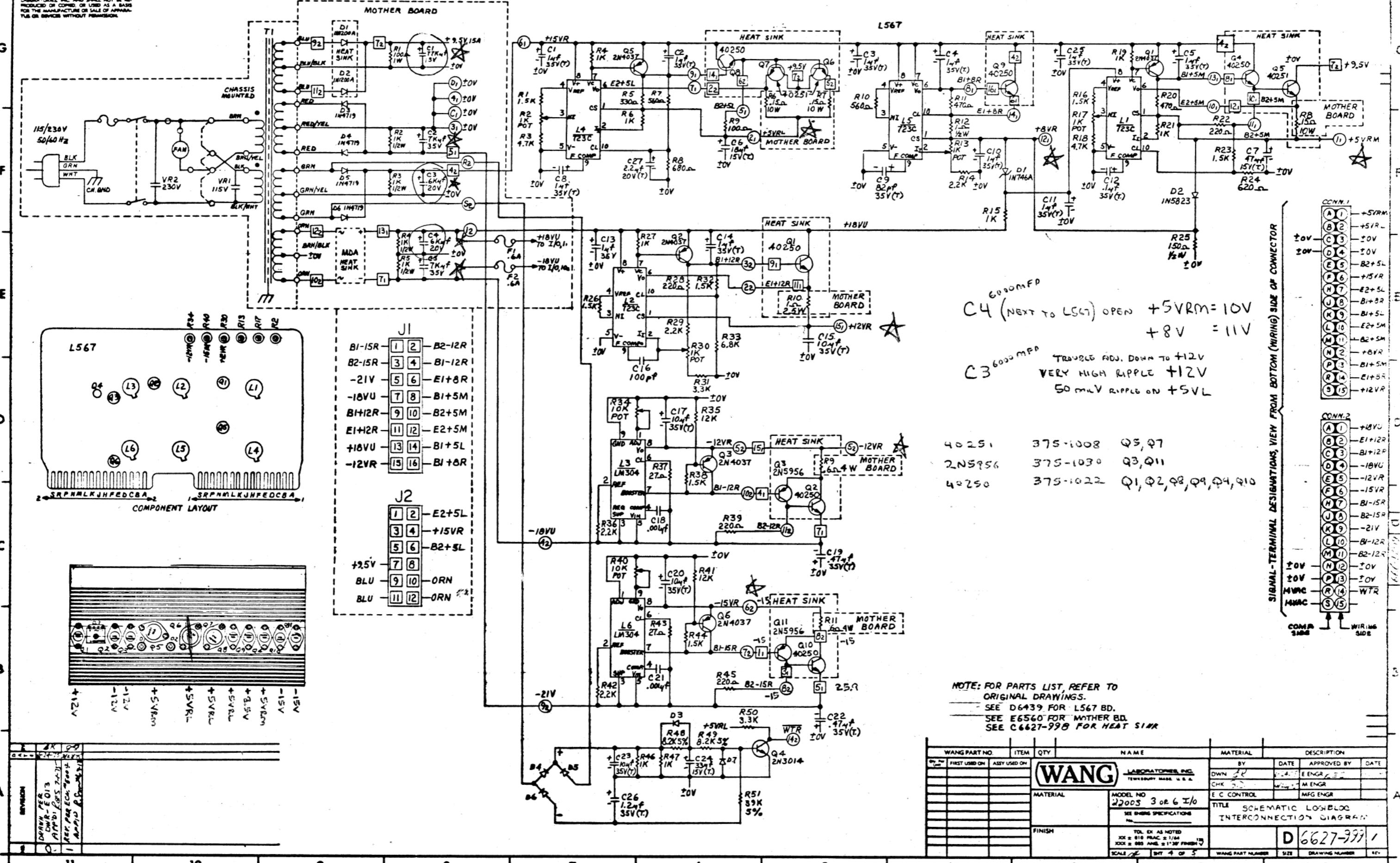
WANG PART NO.	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
6786	1	1	WANG	1	LOGIC CARD
6786	2	1	WANG	1	LOGIC CARD
6786	3	1	WANG	1	LOGIC CARD
6786	4	1	WANG	1	LOGIC CARD
6786	5	1	WANG	1	LOGIC CARD
6786	6	1	WANG	1	LOGIC CARD
6786	7	1	WANG	1	LOGIC CARD
6786	8	1	WANG	1	LOGIC CARD
6786	9	1	WANG	1	LOGIC CARD
6786	10	1	WANG	1	LOGIC CARD
6786	11	1	WANG	1	LOGIC CARD
6786	12	1	WANG	1	LOGIC CARD
6786	13	1	WANG	1	LOGIC CARD
6786	14	1	WANG	1	LOGIC CARD
6786	15	1	WANG	1	LOGIC CARD
6786	16	1	WANG	1	LOGIC CARD
6786	17	1	WANG	1	LOGIC CARD
6786	18	1	WANG	1	LOGIC CARD
6786	19	1	WANG	1	LOGIC CARD
6786	20	1	WANG	1	LOGIC CARD
6786	21	1	WANG	1	LOGIC CARD
6786	22	1	WANG	1	LOGIC CARD
6786	23	1	WANG	1	LOGIC CARD
6786	24	1	WANG	1	LOGIC CARD
6786	25	1	WANG	1	LOGIC CARD
6786	26	1	WANG	1	LOGIC CARD
6786	27	1	WANG	1	LOGIC CARD
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6786	31	1	WANG	1	LOGIC CARD
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6786	34	1	WANG	1	LOGIC CARD
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6786	91	1	WANG	1	LOGIC CARD
6786	92	1	WANG	1	LOGIC CARD
6786	93	1	WANG	1	LOGIC CARD
6786	94	1	WANG	1	LOGIC CARD
6786	95	1	WANG	1	LOGIC CARD
6786	96	1			



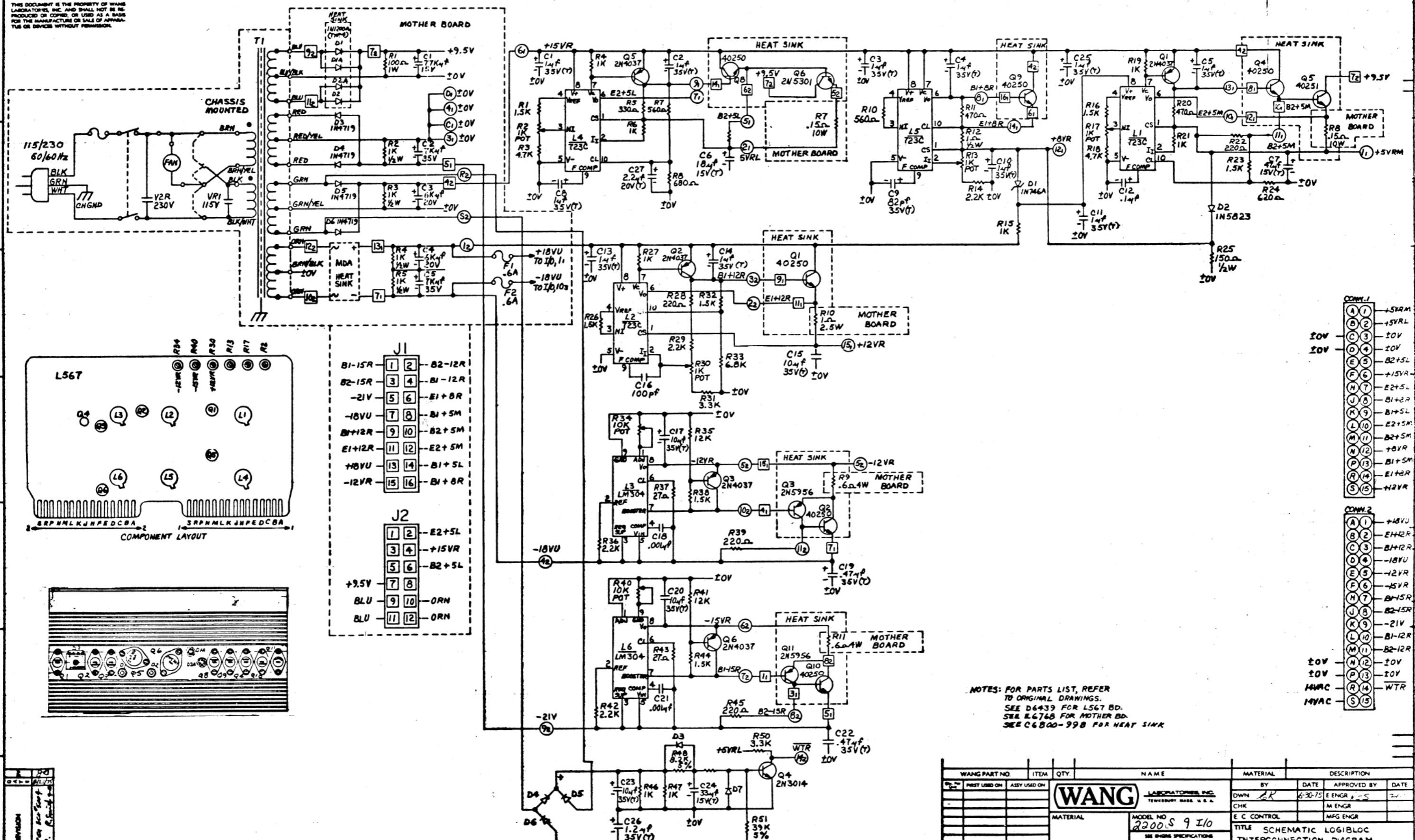




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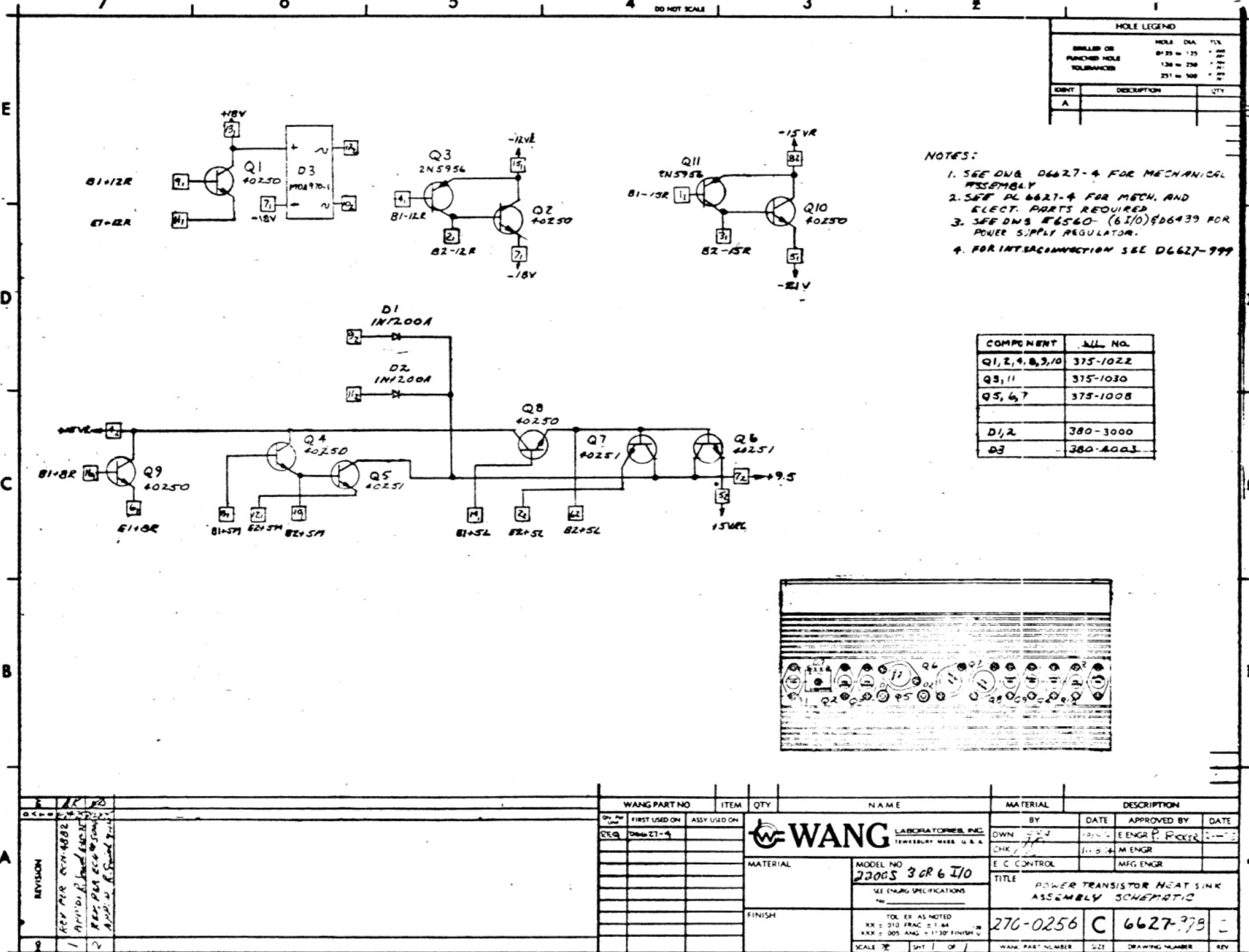
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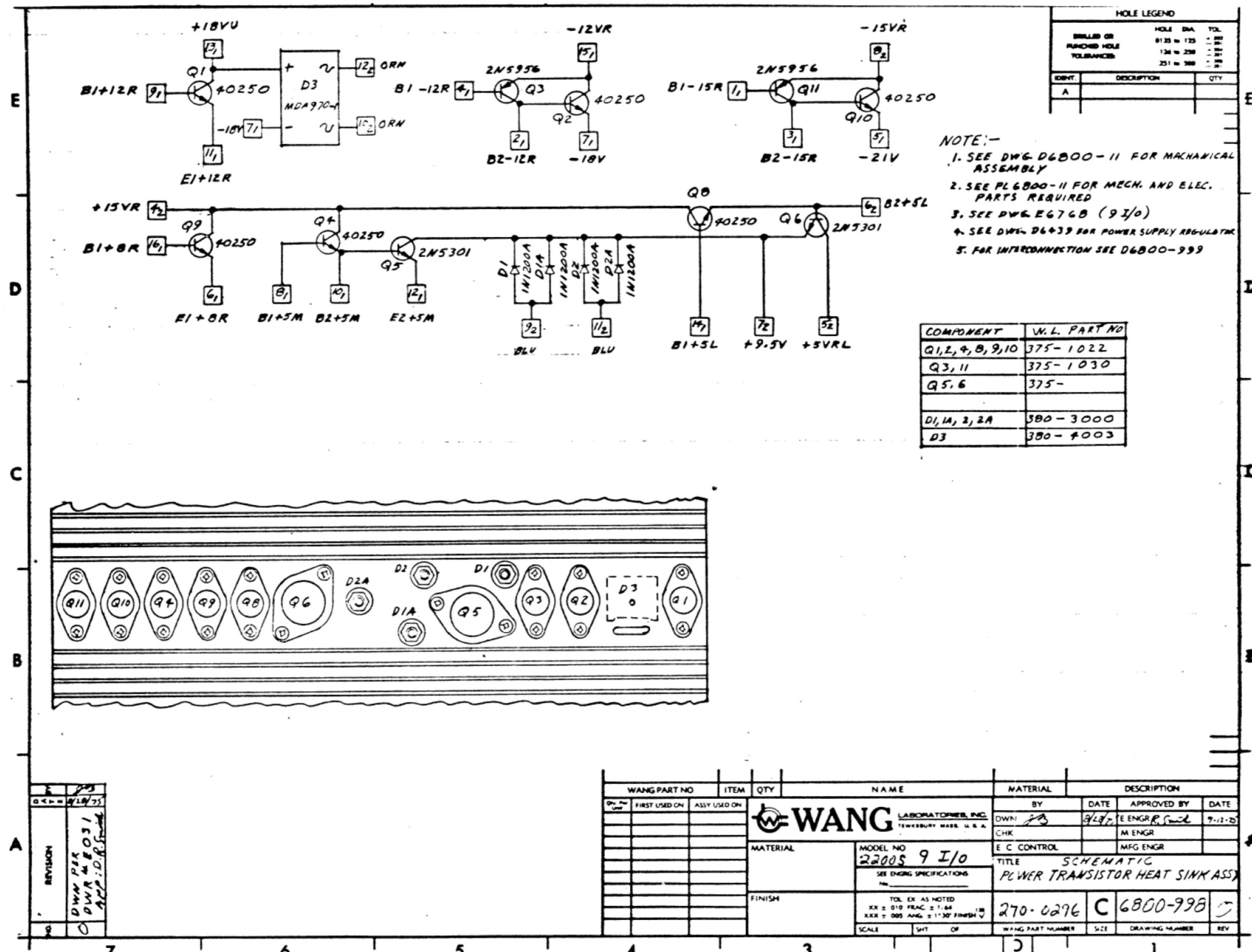


A	1	+5VAC
B	2	-12VR
C	3	-10V
D	4	-10V
E	5	-10V
F	6	-10V
G	7	-10V
H	8	-10V
I	9	-10V
J	10	-10V
K	11	-10V
L	12	-10V
M	13	-10V
N	14	-10V
O	15	-10V
P	16	-10V
Q	17	-10V
R	18	-10V
S	19	-10V

A	1	+10VU
B	2	-EH2R
C	3	-BI+2R
D	4	-10VU
E	5	-10VU
F	6	-5VU
G	7	-10VU
H	8	-10VU
I	9	-10VU
J	10	-10VU
K	11	-10VU
L	12	-10VU
M	13	-10VU
N	14	-10VU
O	15	-10VU
P	16	-10VU
Q	17	-10VU
R	18	-10VU
S	19	-10VU

4 DO NOT SCALE





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NOTES

33 MET ST

3

5

1

**CONNECTOR  
WIRING SIDE**



2 SEE NOTE 3

CONN. PIN NO.	GAUGE	COLOR	LENGTH DIM. "X"	P.C. 6322 PIN NO.	SIGNAL NAME	WANG LABS PART NO.
1	16	RED	11 1/2 "	1	+5VRL	600-7002
2	16	RED	12 "	2	+5VRL	600-7002
3	16	RED	12 1/4 "	3	+5VRL	600-7002
4				4		
5				5		
6	16	ORN	8"	6	+5VRM	600-7003
7	18	WHT/YEL	13"	7	+8.5VU	600-0094
8	18	WHT/VIO	13 3/4 "	8	-17 VU	600-0097
9	18	WHT/BRN	13 3/4 "	9	+17.5VU	600-0091
10	16	BLK	8 1/2 "	10	±OV	600-7000
11	16	BLK	9 1/2 "	12	±OV	600-7000
12	16	BLK	10 1/4 "	18	±OV	600-7000
13	18	WHT/BLK	15 1/2 "	13	115VAC	600-0090
14	18	GRN/YEL	23"	15	CHG GND	600-0054
15	18	WHT	16 3/4 "	14	AC NEUT.	600-0009
16	24	WHT/GRN	18 3/4 "	9,(6311)	PNC	600-2095
17	24	WHT/YEL	18 3/4 "	10,(6311)	PNO	600-2094
18	—	—	—	—	—	—
19	24	WHT/ORN	18 3/4 "	14,(6311)	WTR	600-2093
20	—	—	—	—	—	—
21	18	BLU	7"	21	+12VRL	600-0006
22	18	BRN	7"	22	+8VRL	600-0001
23	18	WHT/BLU	7"	23	-12VRL	600-0096
24	18	GRY	7 1/2 "	24	-15VRL	600-0008

WIRES #13 AND #15 (115 VAC AND AC NEUT.) ARE TO BE TWISTED PAIR AND SLEEVED WITH ITEM 10.

REV	REVISION	REVISED PER	DATE	REV	REVISED PER	DATE	REV	REVISED PER	DATE
1	RFA 0364 APP. D B.O.H.	RFA 0364 APP. D B.O.H.	10-17-74	2	RFA 0364 APP. D B.O.H.	10-29-74	3	RFA 0364 APP. D B.O.H.	11-22-74
2	REV. PER. RFA 0392 LET 9-18-73 CTP	REV. PER. RFA 0392 LET 9-18-73 CTP	10-17-74	4	REV. PER RFA 0713 JRB 2-13-74	10-22-74	5	REVISED PER RFA 0873 JRB 4-18-74	10-22-74
3	REV. PER. RFA 0392 APP. D B.O.H.	REV. PER. RFA 0392 APP. D B.O.H.	10-29-74	6	REV. PER RFA 0165 5/14/74 APPENDIX	10-22-74			

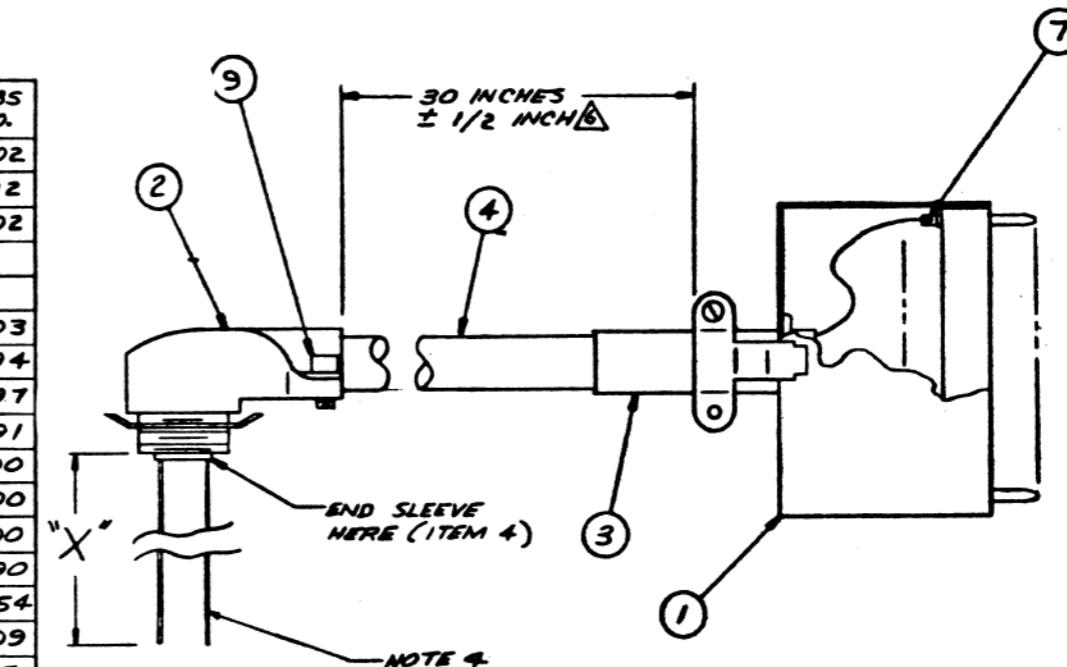
### **NOTES**

- △ 1) ASSEMBLE SHELL OF ITEM 1 AND ASSEMBLE ITEM 3 BEFORE  
 SOLDERING WIRES IN PLACE.  
 △ 2) JUMP PINS 1, 2, 3, + 4 USING 1 PASS      ITEM 12  
 JUMP PINS 5 AND 6 USING 1 PASS      ITEM 12  
 JUMP PINS 10, 11, + 12 USING 1 PASS.      ITEM 12  
 3) WIRE CONNECTOR PER CHART.  
 4) SLEEVE ITEM 14 WITH ITEM 10 ADD TO HARNESS PRIOR TO TYPING.  
 5) STRIP WIRES BACK 1/4 INCH AND TIN 1/8 INCH ALL WIRES EXCEPT AS NOTED  
 6) CRIMP ITEM 13 TO GRN/YEL WIRE 2 PLACES WERE SHOWN ON SHEET 2.

HOLE LEGEND		
	HOLE DIA.	TOL.
DRILLED OR PUNCHED HOLE	.0435 to .125	$\pm .005$
TOLERANCE:	.126 to .250	$\pm .001$
	.251 to .500	$\pm .005$
		$\pm .001$

INT.	DESCRIPTION	QTY.
A		



420-1005	14	1	FAN CORD	18 INCHES LONG
659-0050	13	2	RING TONGUE TERM	#6 RED BURNDY
600-9018	12	.75'	BUSS WIRE	#18 GA TINNED
605-1004	11	9	CABLE TIE	TY-RAP
605-0012	10	2.5'	TUBING # 4	
650-4125	9	2	SCR, SOC-CAP#8-32 x 3/8	BLACK OXIDE FINISH
		8		
660-0200	7	A/R	SOLDER	60-40 ALLOY
	6			
	5			
605-0104	4	2875	SLEEVE (1/2" TUBING)	BLACK (3 1/2 INCHES)
350-4105	3	1	#5 BUSHING (CANNON)	18220-10
654-1237	2	1	90° CONNECTOR (STRAIN RELIEF)	
350-2055	1	1	CONNECTOR (CINCH - JONES)	P-324-CCT

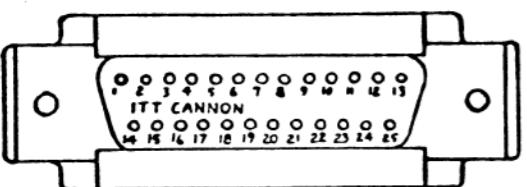
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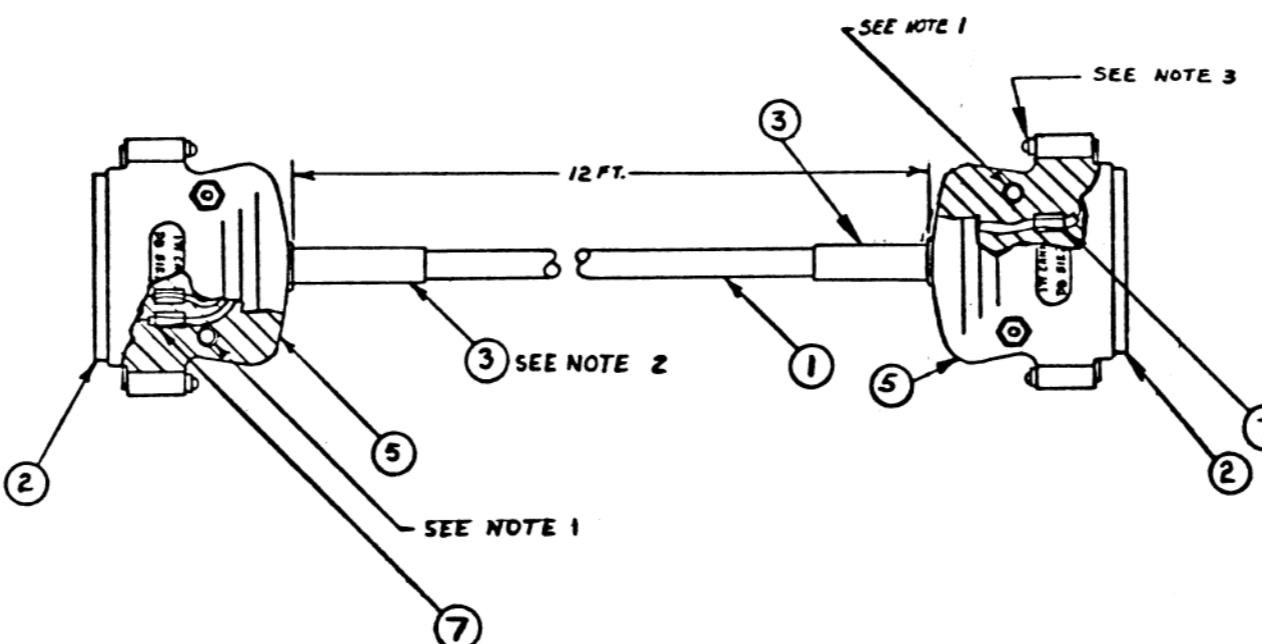
## NOTES:

1. STRIP OUTER INSULATION  $1\frac{1}{4}$ " STRIP & TIN ALL WIRES  $\frac{3}{16}$
  2. ASSEMBLE ITEM 3 TO ITEM 1 BEFORE WIRING
  3. HARDWARE SUPPLIED WITH ITEM 5.

HOLE LEGEND		
	HOLE DIA.	TOL.
OR	.0135 to .125	+ .005 - .000
HOLE	.126 to .250	+ .005 - .000
LS:	.251 to .500	+ .005 - .000

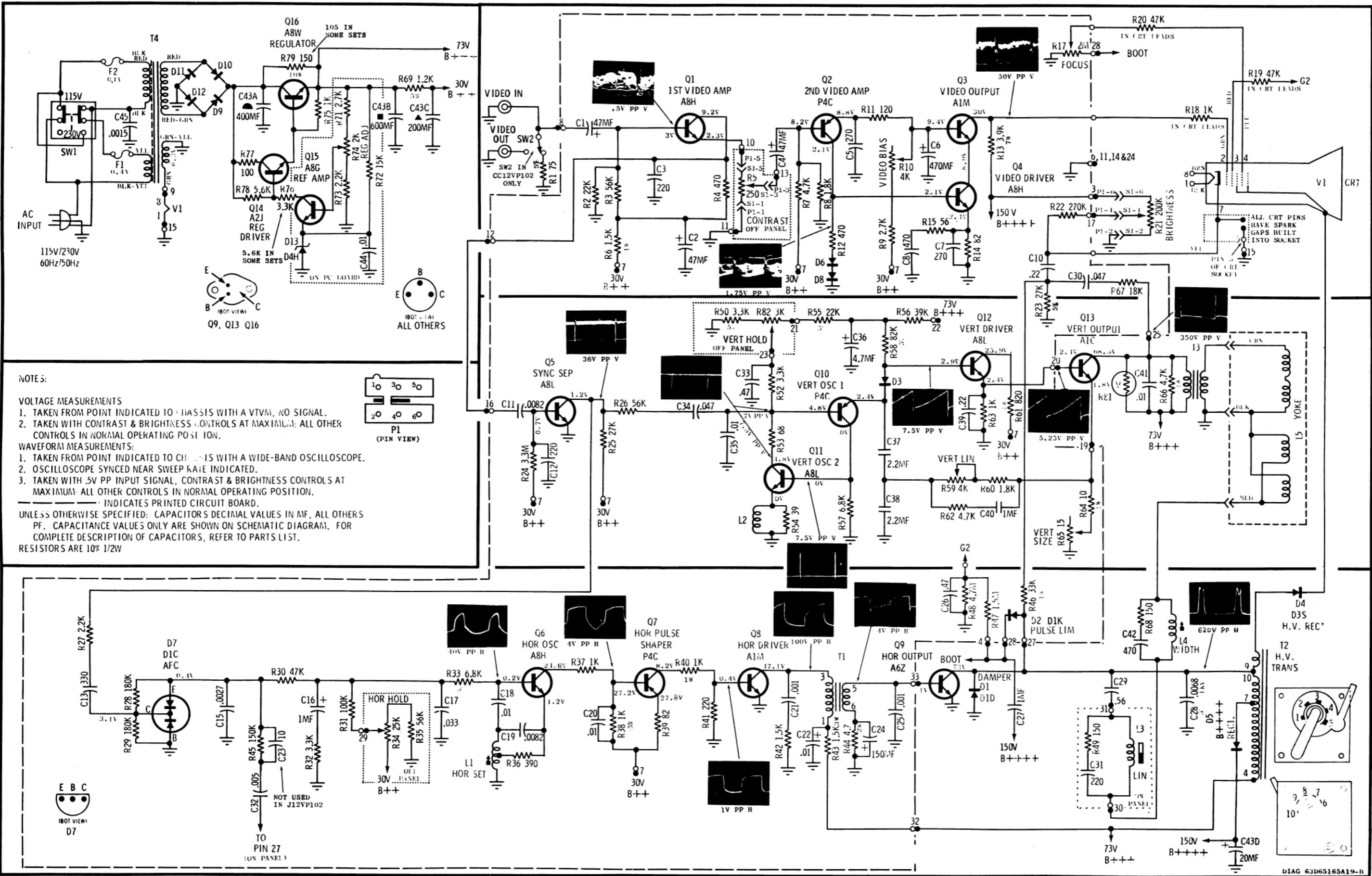


CANNON CONN. PIN NO.	WIRE NO.	CANNON CONN. PIN NO.	SIGNAL NAMES
1	1	1	(AA) PROTECTIVE GND
2	2	2	(BA) TRANSMITTED DATA
3	3	3	(BB) RECEIVED DATA
4	4	4	(CA) REQUEST TO SEND
5	5	5	(CB) CLEAR TO SEND
6	6	6	(CC) DATA SET READY
7	7	7	(AB) SIGNAL GND.
8	8	8	(CF) CARRIER DETECTOR
9	9	9	
10	10	10	
11	11	11	(SA) SUPERVISORY TRANS
12	12	12	(SB) SUPERVISORY REC.
13			
14			
15			
16			
17			
18			
19			
20	13	20	(CD) DATA TERMINAL READY
21			
22	14	22	(CE) RING INDICATOR
23			
24			
25			



605-0002	7	AR	SLEEVE	#15 3/8"
660-0202	6	AR	SOLDER	63/37 ALLOY
350-4215	5	2	CONN. SHELL	CANNON # DB 51226-1
350-4103	3	2	BUSHING #3	CANNON # 18220-6
350-1030	2	2	CONN. 25PIN	ITT CANNON DB 25P
120-0001	1	AR	CABLE	15 CONDUCTOR AWG 26

NO	REVISION	DATE	REV PER RRAO 072	DATE	REV PER RRAO 072
1	REVISED PER XFA. NO 08.76	2-13-79 CIP	2-22-74	4-17-79	4-17-79
1	REVISED PER XFA. NO 08.76	4-17-79			



DIAG 63D6516SA19-B