PRODUCT SERVICE

SCHEMATIC MANUAL

WANG LABORATORIES, INC.
836 NORTH STREET, TEWKSBURY, MASSACHUSETTS 01876, TEL (617) 851-4111, TWX 710 343-6769, TELEX 94-7421

INTRODUCTION

This manual contains schematic drawings and cable diagrams of the following products:

Model 100 System
Model 400 System
Model 500/520/600 Calculators
Model 700/720 Calculators
Model 1200 System
Model 2200 System
Peripherals of 500/520/600/700/720/2200
DIABLO Series 40 Disk Drive

The schematics are arranged in sections in the order listed above. A colored title and table of contents sheet begins each section. The schematics in each section are arranged in ascending numerical order by printed circuit board number disregarding F and L prefixes. Pertinent power supply schematics and cable diagrams are placed at the end of each section. Due to the unavailability at time of publication, some schematics and cable diagrams are missing, especially on newer products. Rough engineering drawings and preliminary drawings are not usually incorporated in this manual.

This manual will periodically be updated to include drawings and schematics of newly manufactured products, and drawings that are now sketches or not finalized.

The Model 300 series drawings are not included in this manual because of a prior publication *Series 300 Drawings* (03-0007-0) which incorporated all 300 schematic diagrams. All copies of this manual are exhausted and there are currently no plans to reprint due to expense and low priority.

Publication of this new schematic manual eliminates schematic diagrams from future Service Bulletins; bulletins will have assembly drawings only if available at time of publication.

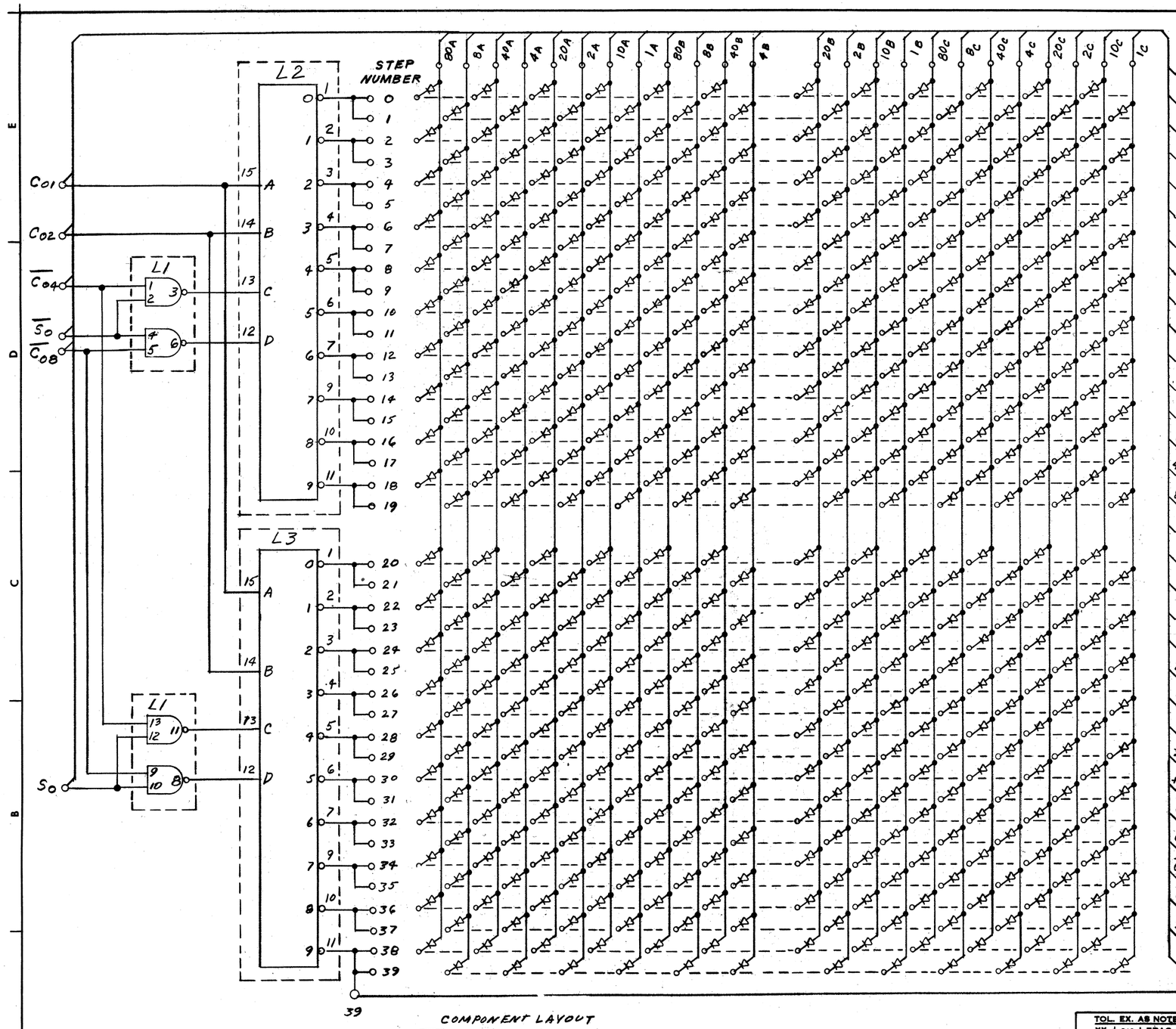
In order to improve this publication, use the business reply form on the next page to send suggestions or requests for drawings which may have been omitted; these will be incorporated in the next update.

MODEL 400 SYSTEM

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

TITLE	DRAWING #	NO. OF SHEETS
5977	C5977	1
6023	D6023, C6023	2
6024	E6024	1
6025	D6025	2
6026	D6026	1
6027	D6027	1
6028	D6028-1	1
6028-1	D6028-2	1
6029	D6029	3
6030	D6030	1
6244	D6244, E6244	2
6245	D6245	1
6246	D6246-1	1
6246-1	D6246-2	1

TITLE	DRAWING #	NO. OF SHEETS
6252	D6252	1
6253	D6253-1	1
6253-C1	D6253-C	1
6256	E6256	1
6265	D6265	1
6266	D6266	1
6267	E6267	1
6280	D6280-1	1
6282	D6282	1
6283	E6283	1
6338	D6338-1	1
6338-1	D6338-2	1
6339	D6339-1	1
C.R. CABLE	D6280-2	1



PLUG-IN TERMINAL END
WANG PART No. 595B

1A	2
2A	5
4A	11
8A	17
10A	44
20A	39
40A	38
80A	32
1B	4
2B	3
4B	9
8B	15
10B	42
20B	41
40B	36
80B	30
1C	6
2C	1
4C	7
8C	13
10C	40
20C	43
40C	34
80C	28
±0V	31
+5VR	35
CO_1	10
CO_2	8
$\overline{CO_4}$	21
$\overline{CO_8}$	19
S_0	23
$\overline{S_0}$	25
39	27

P1

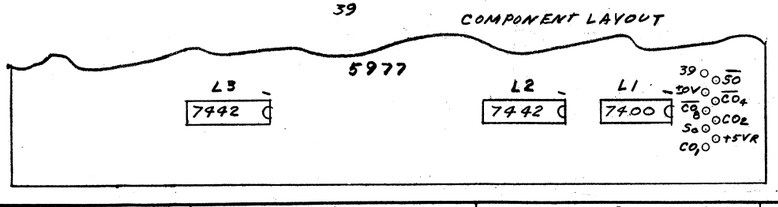
2C	1 2	1A
2B	3 4	1B
2A	5 6	1C
4C	7 8	CO_2
4B	9 10	CO_1
4A	11 12	
8C	13 14	
8B	15 16	
8A	17 18	
CO_8	19 20	
$\overline{CO_4}$	21 22	
S_0	23 24	
$\overline{S_0}$	25 26	
39 SEE NOTE2	27 28	80C
	29 30	80B
±0V	31 32	80A
	33 34	40C
+5VR	35 36	40B
	37 38	40A
20A	39 40	10C
20B	41 42	10B
20C	43 44	10A

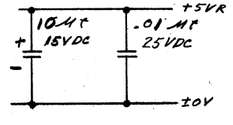
REV	REVISIONS
1	PER ECN #2121 ADDED P1, REMOVED ALL ARROWS FROM CONN., REMOVED 1 FROM .05 CAP ADDED NOTE 2. APP. RT
2	PER ECN #2860 WAS .5 MF AND .05 MF APP:- SKH

LOCATION	TYPE	WANG LAB. No.	TERM. No. ±0V	TERM. No. V_{CC} +5VR	QTY
L1	SN7400N	376-0002	7	14	1
L2,3	SN7442N	376-0008	8	16	2

NOTE:
1. ALL DIODES ARE WL380-1001 (QTY 480)
2. USED ONLY ON MODEL 704 CARD READER

COMPONENT LAYOUT





TOL. EX. AS NOTED
.XX ±.010 FRAC. ±1/
.XXX ±.005 ANG. ±

MATERIAL

FINISH SCALE

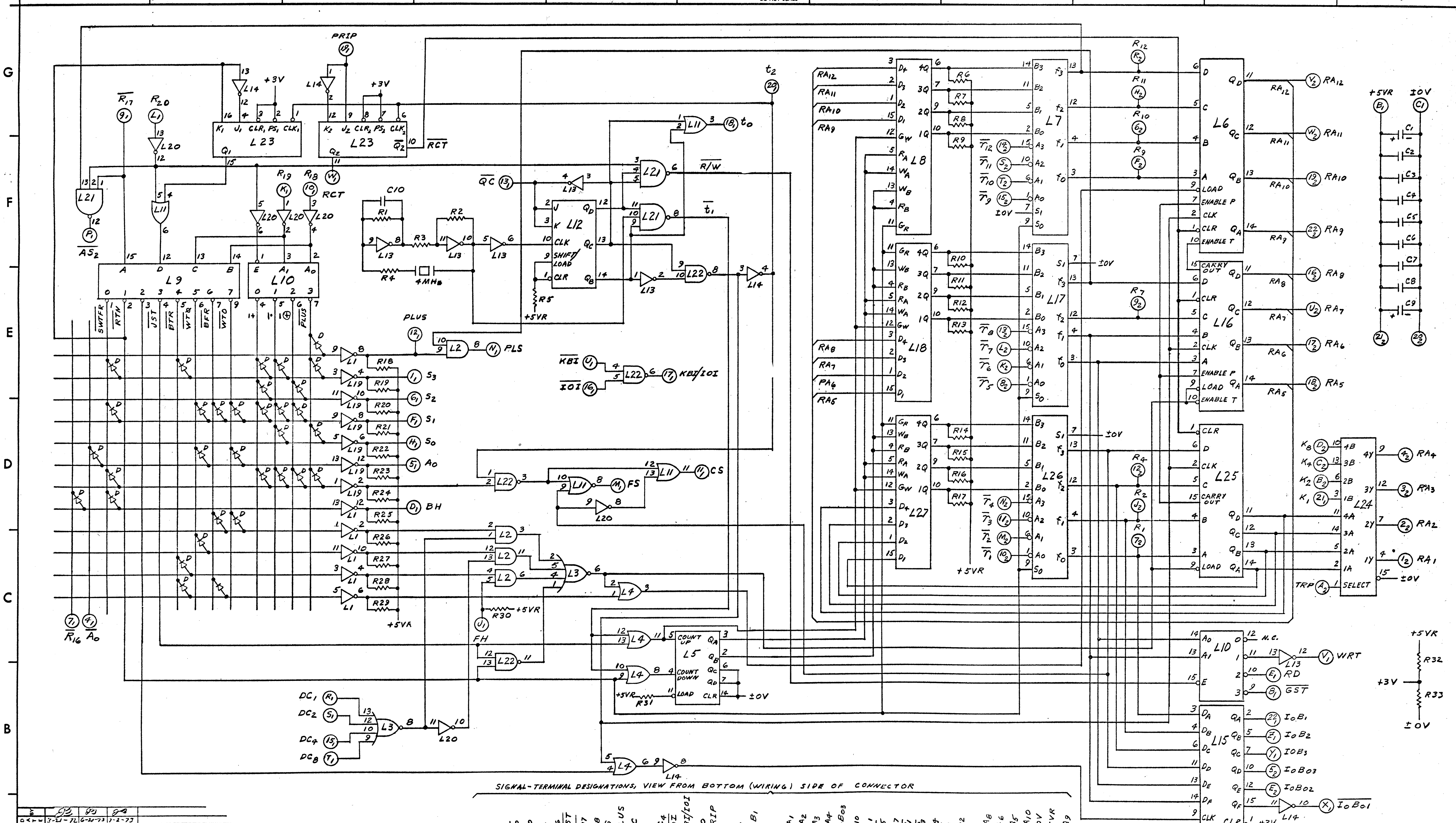
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	3/9/71	APP. G.T.C.	3/12/70
	CHECKED		APP.	

TITLE SCHEMATIC LOGIBLOC # 5977
CARD READER FOR MODEL 184, 185 AND 704

PT. NO. 210-5977 | DWG. NO. C 5977-1 | REV. 2

DWG. NO. C



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

1st HALF

Pin (wiring side)	Signal	Pin (comp. side)	Signal
1	S_3	A	
2		B	+5VR
3		C	±0V
4	$\overline{A_0}$	D	BH
5	A_0	E	RD
6	S_2	F	S_1
7	$\overline{R_{16}}$	H	S_0
8	$\overline{GST}$	J	FH
9	$\overline{R_{17}}$	K	R_{19}
10	R_{18}	L	R_{20}
11	CS	M	FS
12	PLUS	N	PLS
13	QC	P	$\overline{AS_2}$
14		R	DC_1
15	DC_4	S	DC_2
16	$\overline{IOI}$	T	DC_8
17	$\overline{KBI/IOI}$	U	$\overline{KBI}$
18	t_0	V	WRT
19	PRIP	W	$\overline{RCT}$
20	t_2	X	$\overline{I_oB_{O1}}$
21	K_1	Y	I_oB_3
22	I_oB_1	Z	I_oB_2

2nd HALF

Pin (wiring side)	Signal	Pin (comp. side)	Signal
1	RA_1	A	TRP
2	RA_2	B	K_2
3	RA_3	C	K_4
4	RA_4	D	K_8
5	I_oB_{O3}	E	I_oB_{O2}
6	R_{10}	F	R_9
7	R_1	H	R_{11}
8	$\overline{T_5}$	J	R_2
9	R_7	K	$\overline{T_6}$
10	$\overline{T_1}$	L	$\overline{T_7}$
11	$\overline{T_3}$	M	$\overline{T_2}$
12	R_4	N	$\overline{T_4}$
13	$\overline{T_8}$	P	
14	$\overline{T_{12}}$	R	R_{12}
15	$\overline{T_9}$	S	$\overline{T_{11}}$
16	RA_8	T	$\overline{T_{10}}$
17	RA_6	U	RA_7
18	RA_5	V	RA_{12}
19	RA_{10}	W	RA_{11}
20	±0V	X	.
21	+5VR	Y	
22	RA_9	Z	

← WIRING SIDE
← COMP. SIDE

REVISION

NO	REVISION	DATE	BY
1	REVISED PER ECN #3148 APP'D J. W.	3-21-72	[illegible]
2	CORRECTED PER RFA 0194 APP'D J. W.	6-20-73	[illegible]
3	REVISED PER ECN # 3709 APP'D J. W.	7-2-73	[illegible]

WANG LABORATORIES INC.
TEWKSBURY, MASS.

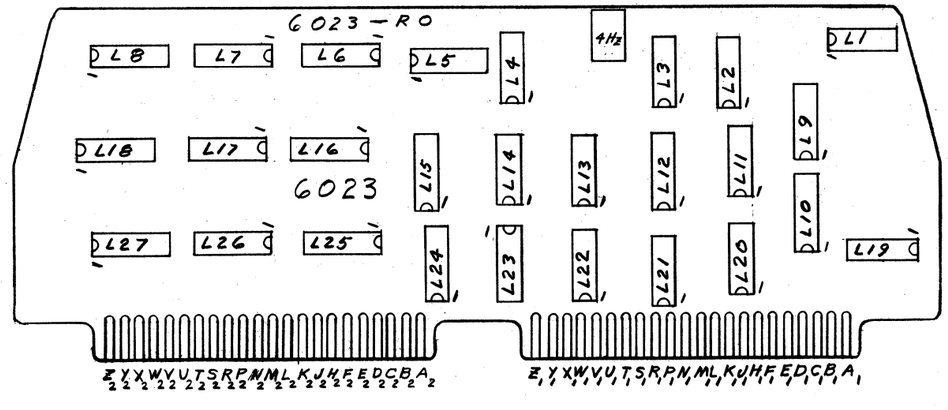
MODEL NO.	DRAWN		APP.	
400	[illegible]	3/1/72	G.T.C.	5/26/72
	CHECKED		APP.	

TITLE SCHEMATIC LOGIBLOC #6023 R.O.M. CONTROL

SHT 1 OF 2 DWG. NO. D 6023-1 REV. 3

LOCATION	TYPE	W.L. PART No.	TERM. No. V_{cc} +5VR	TERM. No. ±0V	QTY
L1, 19	9935	376-0025	14	7	2
L2	SN7408N	376-0081	14	7	1
L3	SN7425N	376-0092	14	7	1
L4, 11	SN7432N	376-0093	14	7	2
L5	SN74193N	376-0053	16	8	1
L6,16,25	93L16	376-0141	16	8	3
L7,17,26	8266	376-0041	16	8	3
L8,18,27	SN74170N	376-0095	16	8	3
L9	SN7442N	376-0008	16	8	1
L10	9321	376-0096	16	8	1
L12	93L00	376-0140	16	8	1
L13,14,20	SN7404N	376-0010	14	7	3
L15	SN74174N	376-0098	16	8	1
L21	SN7410N	376-0003	14	7	1
L22	SN7400N	376-0002	14	7	1
L23	SN7476N	376-0007	5	13	1
L24	93L22	376-0142	16	8	1

COMPONENT	SIZE/TYPE	W.L. PART No.	QTY
R1	180Ω 1/4W	330-2018	1
R2	1.8K 1/4W	330-3018	1
R3, 4	220Ω 1/4W	330-2022	2
R5	4.7K 1/4W	330-3047	1
R6 THRU 30	2.2K 1/4W	330-3022	25
R31	6.8K 1/4W	330-3068	1
R32	2.7K 1/4W	330-3027	1
R33	3.3K 1/4W	330-3033	1
C1, 9	15MF 20VDC	300-4022	2
C2,3,4,5,6,7,8	.05MF	300-1900	7
C10	47PF	300-1047	1
D	SIL DIODE	380-1001	33
XTAL	4MHz	321-0011	1



REVISIONS

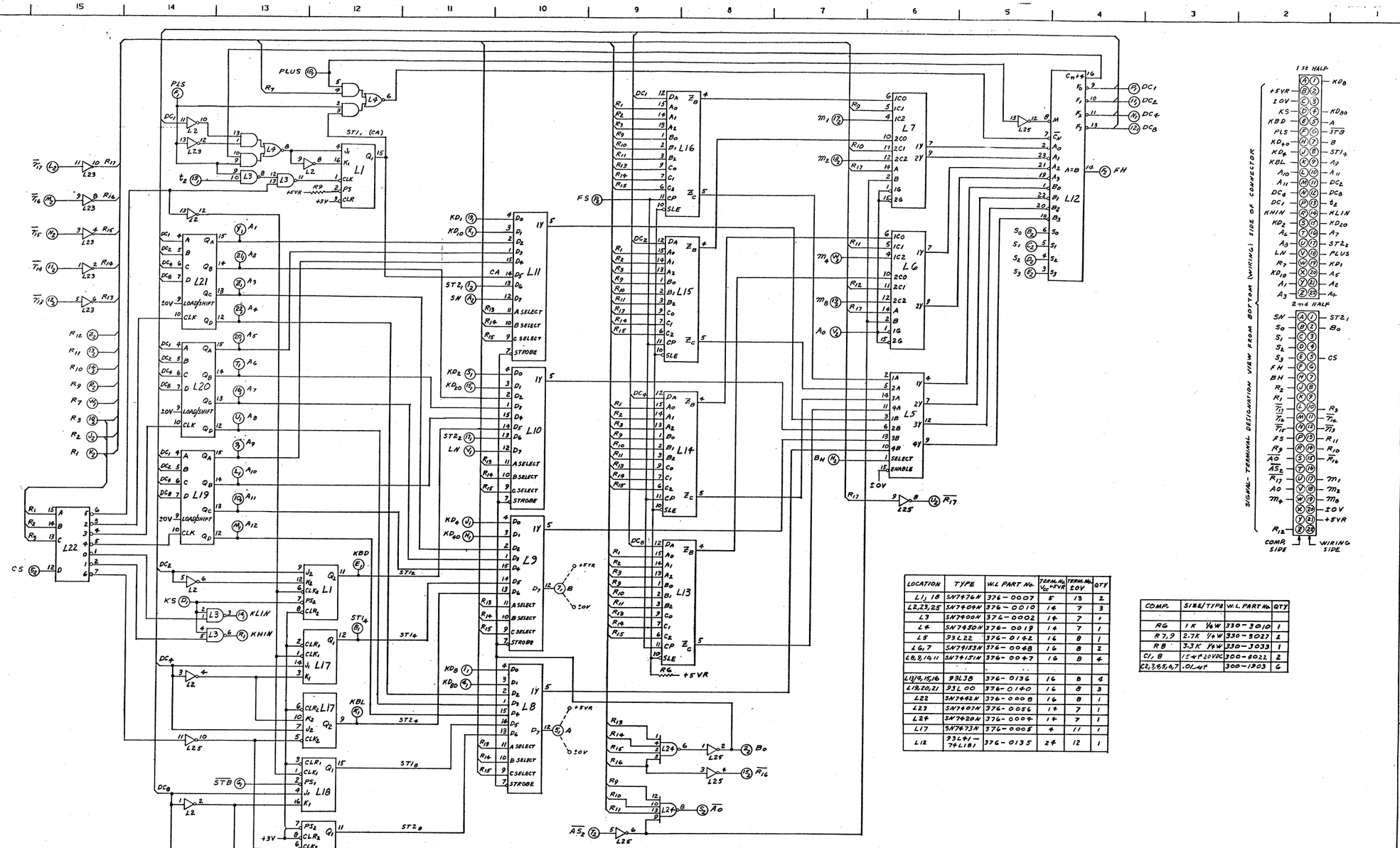
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
400	CHECKED	3/11/72	APP. G.T.C.	5/26/72

TITLE SCHEMATIC LOGIBLOC #6023
R.O.M. CONTROL

W.O. NO. SHT 2 OF 2 | DWG. NO. C 6023-1 | REV. 3

DWG. NO. C



LOCATION	TYPE	W.L PART No.	TERM. No. +5VR	TERM. No. 0V	QTY
L1, 18	SN7476N	376-0007	5	13	2
L2,23,25	SN7404N	376-0010	14	7	3
L3	SN7400N	376-0002	14	7	1
L4	SN7450N	376-0019	14	7	1
L5	93L22	376-0142	16	8	1
L6,7	SN74153N	376-0068	16	8	2
L8,9,10,11	SN74151N	376-0047	16	8	4
L13/14,15/16	93L38	376-0136	16	8	4
L18,20,21	93L00	376-0140	16	8	3
L22	SN7442N	376-0008	16	8	1
L23	SN7407N	376-0056	14	7	1
L24	SN7420N	376-0004	14	7	1
L17	SN7473N	376-0005	4	11	1
L12	93L91 — 74L181	376-0135	24	12	1

COMP.	SIZE/TYPE	W.L. PART No.	QTY
RG	1K ¼W	330-3010	1
R7,9	2.7K ¼W	330-3027	2
R8	3.3K ¼W	330-3033	1
C1, 8	1.5μF 20VDC	300-3022	2
C2,3,4,5,6,7	.01μF	300-1303	6

NO.	REVISION	BY	DATE
1	REVISED PER ECO #3169 ADDED	[illegible]	6-22-73
2	REVISED PER ECO #3176 ADDED	[illegible]	7-16-73
3	FIX FOR PARTS LEVEL TWIST LOGIC CHANGES ADDED	[illegible]	6-29-73

QTY	NAME	MATERIAL	DESCRIPTION
WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.		BY	DATE
		DWN [illegible]	3/4/72
		CHK	
MATERIAL	MODEL NO. 400	E.C. CONTROL	
	SEE ENGRG SPECIFICATIONS No.		
FINISH	TOL. EX. AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG. ± 1°30'	APPROVED BY	DATE
		E ENGR	5/11/72
		M ENGR	
		MFG ENGR	
	SCALE	SHT OF	WANG PART NUMBER
			SIZE E
TITLE	SCHEMATIC LOGIBLOC #6024 MAIN PROCESSOR		
			DRAWING NUMBER 6024-1
			REV 3

DO NOT SCALE

L14 L13 L7 L1 L2 L9 L4 L10 L12 L6 L5 L11 L8 L3

M1 M2 M3 M4 M5 M6 M7 M8 M9 M10 M11 M12 M13 M14 M15 M16

EXTERNAL HA7812 +12VR TO 6029 ±0V

EXTERNAL 2N6103 Q1 R1 BASE PT1 +8.0V +5VR

R2 +20V R21 ±0V R3 C1 C2 R4 R5 ±0V

EXTERNAL 2N6110 -17V R6 BASE PT2 C3 D1 N.C. N.C. ±0V -12V C5 C4 R7 R8 R9 R10 R11

+5VR +5VR +5VR +5VR

VDD VD SW D10 -12V -9.2V Q2 R15 R16 Q3 ±0V

D2 D3 D4 D5 C6 R12 R13 R14 D6 D7 D8 C7

C12 C13 C14 C15 C16 +5VR ±0V

+5VR R22 +3V

1st HALF

+20V	A1	+15V
+5VR	B2	
±0V	C3	
PRM	D4	+8.5V
+12VR	E5	PRIP
-12VR	F6	$\overline{KBI}$
BASE PT.	H7	KBL
-17V	J8	$\overline{KBS}$
RCT	K9	TRF
TRP	L10	t_2
KBD	M11	A_9
BASE PT2	N12	$\overline{GST}$
KS	P13	$\overline{IOI}$
A_{12}	R14	GISO
GISN	S15	A
A_7	T16	A_6
A_{10}	U17	A_8
WRT	V18	A_{11}
DC_1	W19	A_5
A_2	X20	
DC_2	Y21	A_1
A_4	Z22	A_3

2nd HALF

DC_4	A1	
DC_8	B2	
RO_4	C3	m_1
RO_8	D4	m_2
m_8	E5	m_4
RO_2	F6	RD
RO_1	H7	KD_4
STI4	J8	KD_8
KD_1	K9	KLIN
KD_2	L10	KBI/IOI
K_4	M11	$\overline{GKB_3}$
$\overline{GKB_2}$	N12	K_8
K_{10}	P13	
KD_{20}	R14	$\overline{GKB_1}$
KD_{40}	S15	K_2
KD_{80}	T16	K_1
$\overline{GKA_2}$	U17	$\overline{GKB_0}$
K_{40}	V18	$\overline{GKA_3}$
$\overline{GKA_1}$	W19	K_{80}
K_{10}	X20	±0V
$\overline{GKA_0}$	Y21	+5VR
KMIN	Z22	K_{20}

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

WIRING SIDE COMP. SIDE

REV	REVISION	BY
0	ORIG	
1	REVISED PER ECN #3150 APPD	9-21-72

WANG LABORATORIES INC. TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.	
400	CHECKED	APP.	

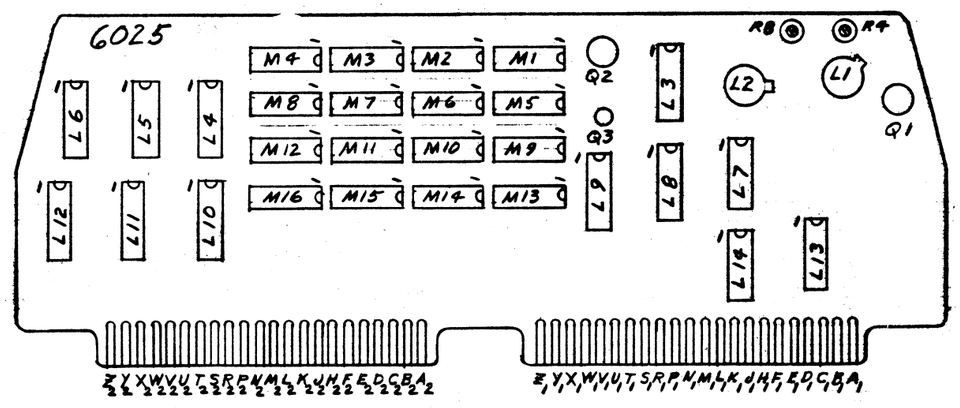
TITLE SCHEMATIC LOGIBLOC # 6025 MEMORY BOARD

SHT 1 OF 2 | DWG. NO. D 6025-1 | REV. 1

REVISIONS
REVISED PER ECN 3150 DR 8-16-72 APP'D J.N.

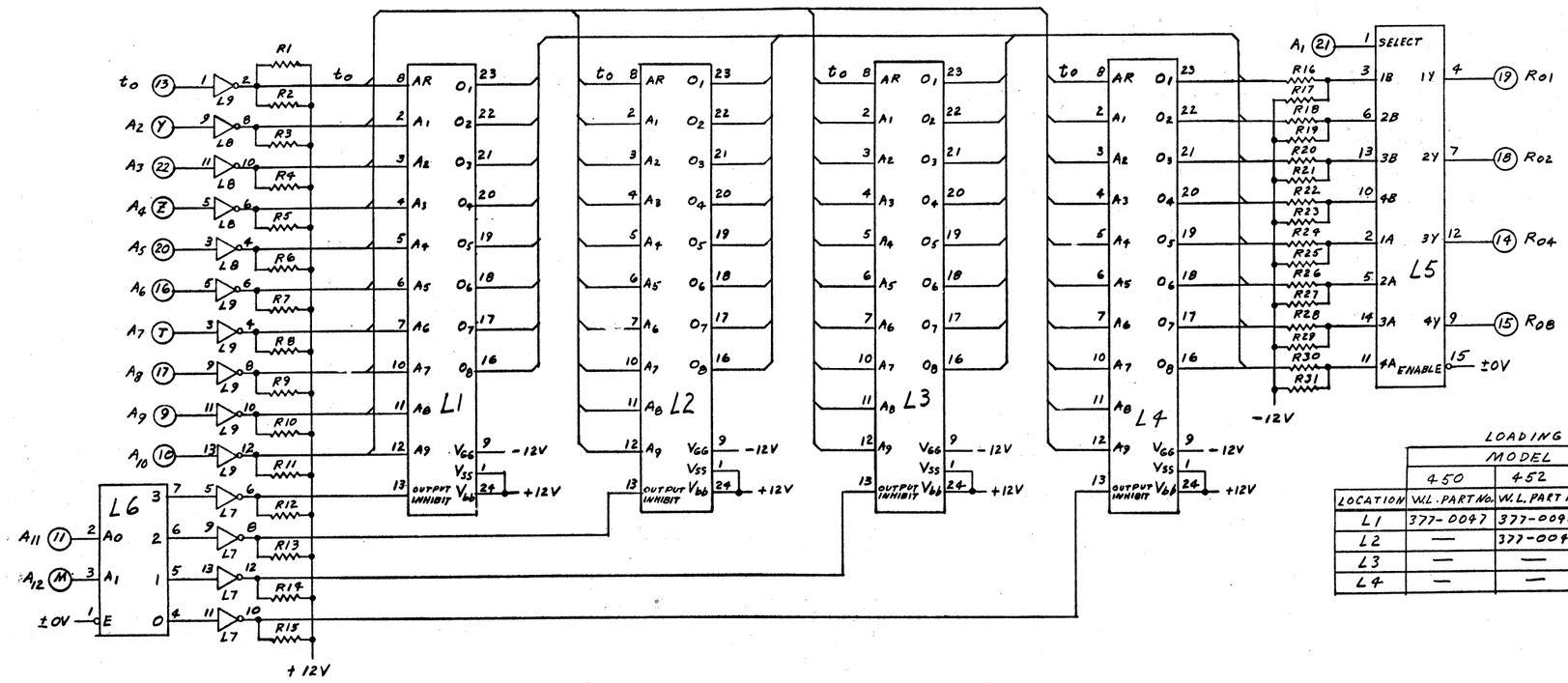
LOCATION	TYPE	W.L. PART No.	TERM. No V_{cc} +5VR	TERM. No 10V	QTY
L1, 2	723C	376-0066			2
L3, 8	9602	376-0104	16	8	2
L4	SN74157N	376-0082	16	8	1
L5, 6	SN74L98	376-0101	16	8	2
L7	SN7404N	376-0029	14	7	1
L9	9321	376-0096	16	8	1
L10	SN74195	376-0097	16	8	1
L11, 12	8266	376-0041	16	8	2
L13	SN7402N	376-0016	14	7	1
L14	SN7476N	376-0007	5	13	1
M1 THRU 16	1101	377-0000			16

COMP.	SIZE/TYPE	W.L. PART No.	QTY
R1	2.2Ω 1/2W	331-0022	1
R2	1.5K 1/4W	330-3015	1
R3	560Ω 1/4W	330-2056	1
R4, 5	1K POT	336-0003	2
R6	2.2K 1/4W	330-3022	1
R6, 16	470Ω 1/4W	330-2047	2
R7	2.7K 1/4W	330-3027	1
R9	820Ω 1/4W	330-2082	1
R10, 11, 13	3.3K 1/4W	330-3033	3
R14, 17, 19	10K 1/4W	330-4010	3
R12, 15, 22	1K 1/4W	330-3010	3
R18, 20	33K 1/4W	330-4033	2
R21	10K 1/2W	331-4010	1
C1, 7, 11	.001μF	300-1906	3
C2	.0056μF	300-1915	1
C3, 4	.01μF	300-1903	2
C5, 6, 12, 16	15μF 20V TANT	300-4022	4
C8	220 PF	300-1226	1
C9	470 PF	300-1470	1
C10	.82 PF	300-1082	1
C13, 14, 15	.05μF	300-1900	3
D1	IN753A 6.2V	380-2062	1
D2, 3, 4, 5	EM403	380-4000	4
D6, 7, 8	SIL DIODE	380-1901	3
D10	IN4733A 5.1V	380-2052	1
Q1, 2	2N5189	375-1021	2
Q3	GT545	375-1019	1



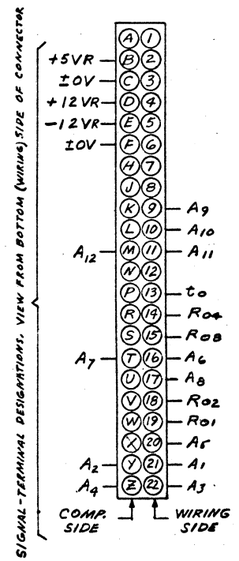
WANG LABORATORIES INC. TEWKSBURY, MASS.					
MODEL NO. 400	DRAWN JJ	3/7/72	APP. G.T.C.	5/26/72	
	CHECKED		APP.		
TITLE SCHEMATIC LOGIBLOC #6025 MEMORY BOARD					
W.O. NO. SHT 2 OF 2	DWG. NO. C 6025-1				REV. 1

ON TRACING

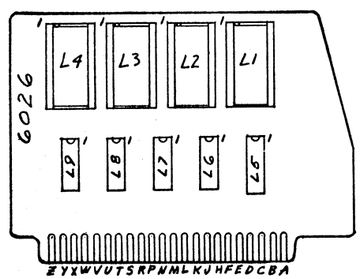


LOADING CHART

	MODEL		
LOCATION	450 W.L. PART No.	452 W.L. PART No.	462 W.L. PART No.
L1	377-0047	377-0098	377-0060
L2	—	377-0049	377-0061
L3	—	—	377-0062
L4	—	—	377-0063



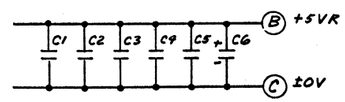
COMPONENT LAYOUT



LOCATION	TYPE	W.L. PART No.	TERM. No. Vcc +5VR	TERM. No. ±0V	QTY
L1,2,3,4	EA-4000	—	—	—	—
L5	93L22	376-0142	16	8	1
L6	9321	376-0096	16	8	1
L7,8,9	SN7406N	376-0055	14	7	3

SEE LOADING CHART

COMPONENT	SIZE/TYPE	W.L. PART No.	QTY
R1 THRU R15	1K 1/4W	330-3010	15
R16,18,20,22,24,26,28,30	2.7K 1/4W	330-3027	8
R17,19,21,23,25,27,29,31	6.8K 1/4W	330-3068	8
C1,2,3,4,5	.05MF	300-1900	5
C6	10MF16	300-3006	1
SOCKET	24 PIN	376-9003	4



NO.	REVISION	BY	DATE
1	REVISED PER ECN # 3151 APP'D J. Kling	GD	6-22-72
2	PER ECN # 3207 LEVELS 74157 APP'D J. Kling	AB	6-29-73
3	PER P.R. FA #0247 ADDED LOADING CHART APP'D J. Kling	GD	7-26-73

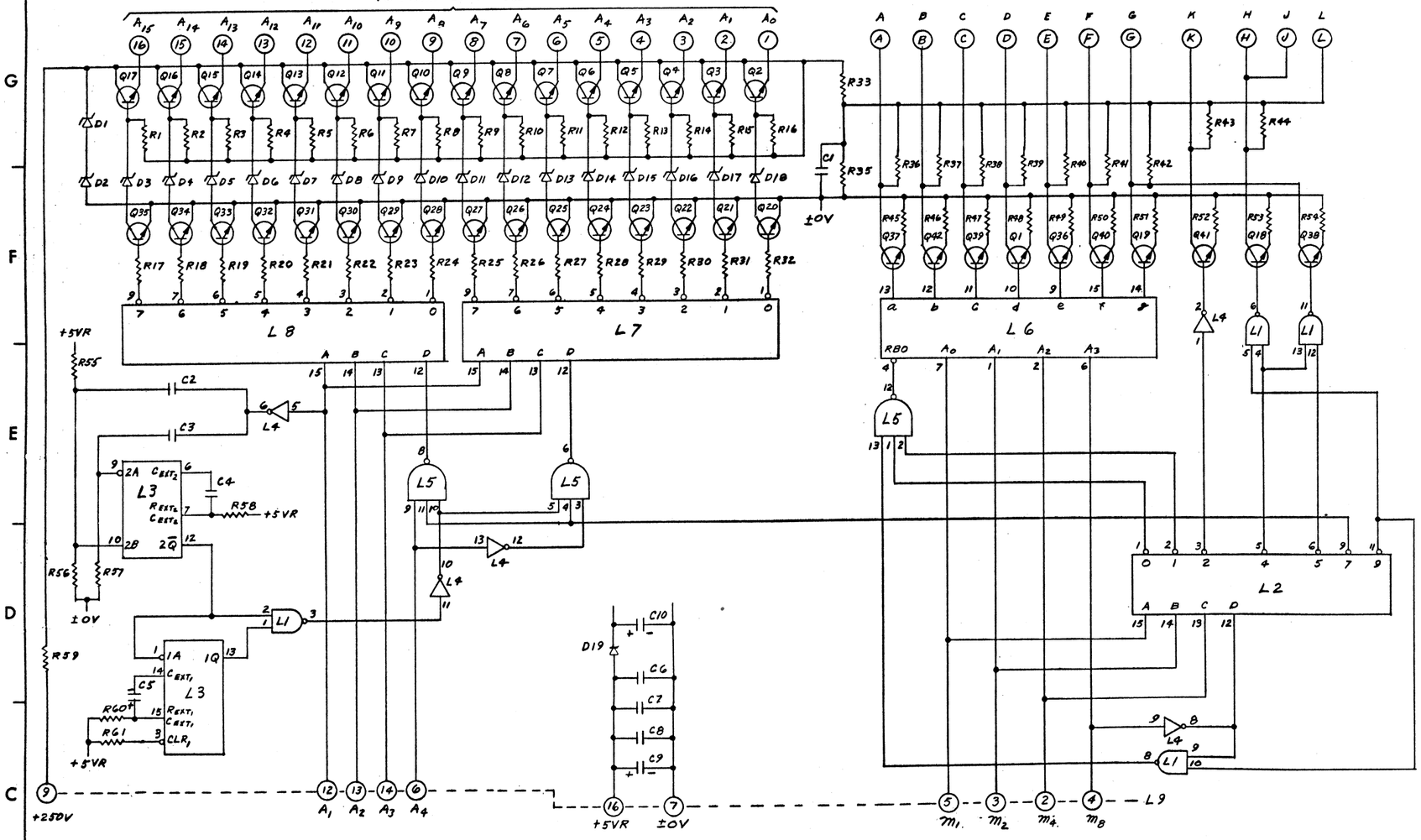
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	CHECKED	APP.	APP.	
400	GD 6/14/72				8/16/72

TITLE: SCHEMATIC LOGIBLOC 6026 4 BIT R.O.M.

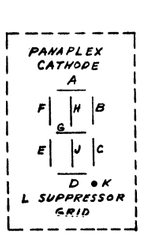
SHT OF | DWG. NO. D 6026-1 | REV. 3

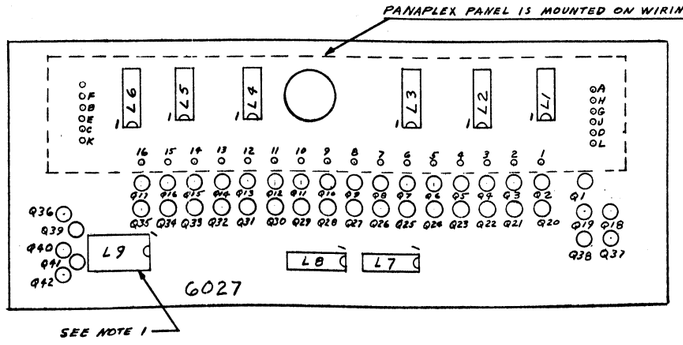
D 6026-1



LOCATION	TYPE	W.L. PART No.	TERM. No. V_{cc} +5VR	TERM. No. ±0V	QTY
L1	SN7400N	376-0002	14	7	1
L2, 7, 8	SN7442N	376-0008	16	8	3
L3	SN74123N	376-0080	16	8	1
L4	SN7404N	376-0010	14	7	1
L5	SN7410N	376-0003	14	7	1
L6	9307	376-0084	16	8	1

COMPONENT	SIZE/TYPE	W.L PART No.	QTY
R1 THRU 16	270K ¼W	330-5027	16
R17 THRU 32, 60	22K ¼W	330-4022	17
R33, 35	100K ½W	331-5010	2
R53	820Ω ¼W	330-2082	1
R36 THRU 43	330K ¼W	330-5033	8
R44	220K ¼W	330-5022	1
R45 THRU 52, 54	1.8K ¼W	330-3018	9
R55, 56, 61	10K ¼W	330-4010	3
R57	680Ω ¼W	330-2068	1
R58	33K ¼W	330-4033	1
R59	5.6K 1W	332-3056	1
C1	.005μF CER	300-1924	1
C2, 3	.001μF CER	300-1906	2
C4, 6, 7, 8	.01μF CER	300-1903	4
C5	1μF TANT	300-4000	1
C9, 10	10μF 16VDC	300-3006	2
D1 THRU 18	ZENER 110V	380-2125	18
D19	EM 403	380-4000	1
Q1 THRU 42	DRIVER TRANS.	375-1006	42
PANAPLEX	No. BR-16400	340-0100	1





NOTE:-
1. INTERCONNECTING CABLE W.L. 420-2000 IS SOLDERED TO BOARD

NO	REVISION	BY	DATE
1	PER ECN #3152 CHANGED SIGNAL IDENT. APP'D	JAB	8-21-72
2	REVISED PER ECN #3238 APP'D	JAB	9-27-72

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	DATE	APP.	DATE
400	CHECKED	2/24/72	G.T.C.	5/26/72

TITLE: SCHEMATIC LOGIBLOC #6027
DISPLAY LOGIC

SHT OF | DWG. NO. D 6027-1 | REV. 2

D 6027

DO NOT SCALE

I.C. LOCATION	TYPE	W.L. NO.	TERM FOR IOV	TERM FOR ICC +5VR	QTY.
L1	SN7400N	376-0002	7	14	1
L2	F9602	376-0104	8	16	1

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1,2,3,4,5,6,7, 8,9,10	470Ω 1/4W	330-2047	10
R11,12	33K 1/4W	330-4033	2
R13	220Ω 1/4W	330-2022	1
R14	1.2K 1/4W	330-3012	1
R15	3.3K 1/4W	330-3033	1
C1	.68μf 20V TANT.	300-4011	1
C2	.001μf 200V	300-1906	1
C3	15μf 20V TANT.	300-4022	1
C4	.01μf 25V	300-1903	1
D	30V SIL	380-1001	137
SW1 THRU 6	PUSH BUT. SW	325-2218	1
SW7 THRU 51	MIC. SW. 11SM804	325-2300	45
P1	16 PIN CABLE ASSY.	420-0000	1

MECHANICAL INTERLOCK
DEPRESS AND RELEASE
ONE SWITCH AT A TIME.

LOWER SW8 · UPPER SW7 · ST SW6 · RE SW5

P.C. 6342 CHART

COMP.	SIZE, TYPE	W.L. NO.	QTY.
R1	220Ω 1/4W	330-2022	1
R2	8.2K 1/4W	330-3082	1
R3	12K 1/4W	330-4012	1
R4	4.7K 1/4W	330-4037	1
C1	3.3μf 15V TANT.	300-4016	1
Q1	SIL. TRANS.	375-1005	1
D	SIL. DIODE	380-1001	1

COMPONENT LAYOUT

6342 R0 · Q1 · L2 PIN 5 · +5VR · L2 PIN 4

COMPONENT LAYOUT 6028

6028 R2 · SW 6 5 4 3 2 1 · SW1 THRU SW46 · P1 · L1 · L2

REV.	NO.	REVISION	BY	DATE
A	1	REDRAWN PER E.C.#3153 SEE 6830LTR. DWG. ADD'D P1	W.F.	9/15/72
	2	REVISED PER E.C.#3419 ADD'D SW51	W.F.	12/5/72
	3	REVISED PER E.C.#3473 ADD'D SW49	W.F.	12/5/72
	4	REVISED PER E.C.#3605 ADD'D L1	W.F.	1/4/73
	5	REVISED PER E.C.#3643 ADD'D L2	W.F.	3/6/73

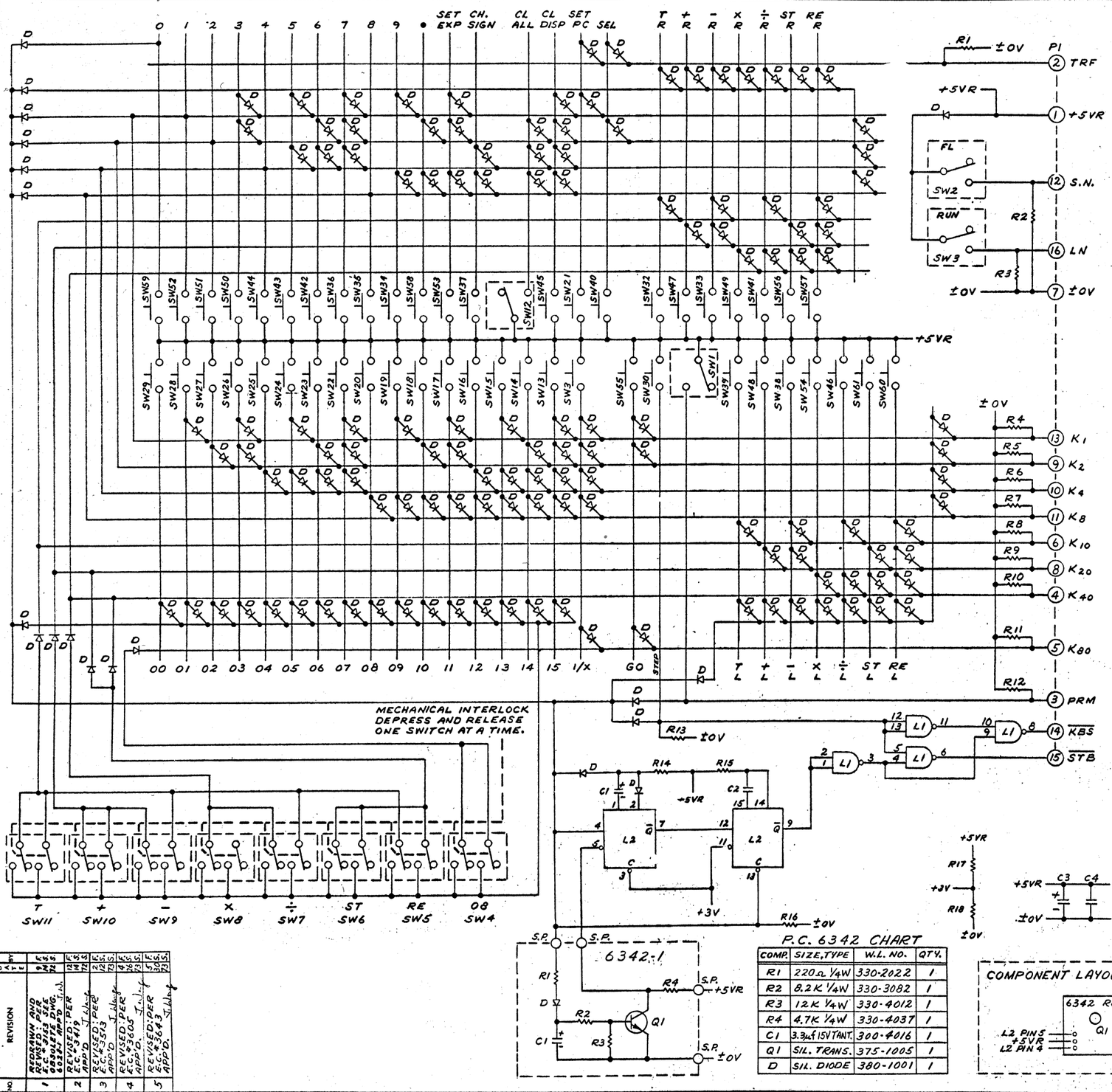
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. | DRAWN F.S.S. 9-16-72 | APP'D | CHECKED | APP.

TITLE: SCHEMATIC LOGIFLOC #6028 & #6342 MOD. 85 KEYBOARD

SHT 1 OF 1 | DWG. NO. D 6028-1 | REV. 5

6028-1



I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1	SN7400N	376-0002	7	14	1
L2	F9602	376-0104	8	16	1

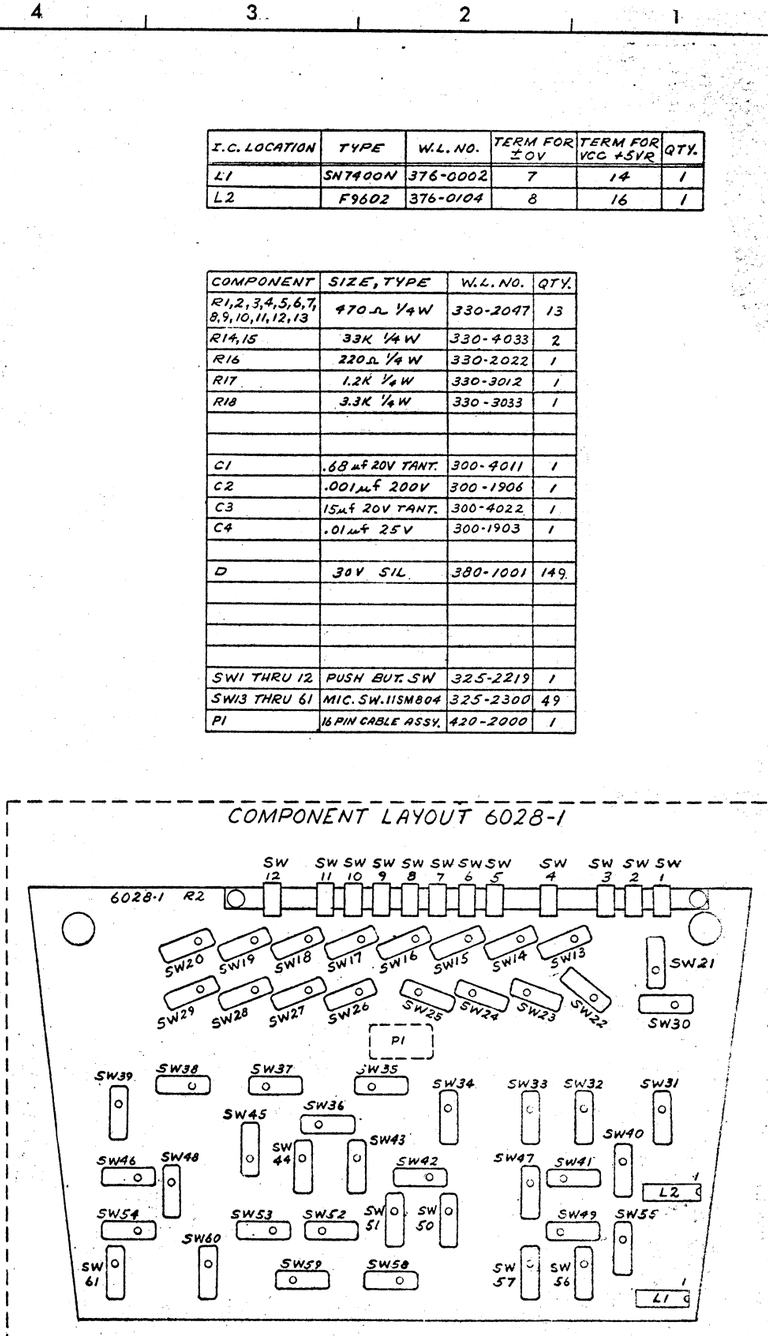
COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1,2,3,4,5,6,7, 8,9,10,11,12,13	470Ω 1/4W	330-2047	13
R14,15	33K 1/4W	330-4033	2
R16	220Ω 1/4W	330-2022	1
R17	1.2K 1/4W	330-3012	1
R18	3.3K 1/4W	330-3033	1
C1	.68 µf 20V TANT.	300-4011	1
C2	.001µf 200V	300-1906	1
C3	15µf 20V TANT.	300-4022	1
C4	.01µf 25V	300-1903	1
D	30V SIL	380-1001	149
SW1 THRU 12	PUSH BUT. SW	325-2219	1
SW13 THRU 61	MIC. SW. 11SM804	325-2300	49
P1	16 PIN CABLE ASSY.	420-2000	1

P.C. 6342 CHART

COMP.	SIZE, TYPE	W.L. NO.	QTY.
R1	220Ω 1/4W	330-2022	1
R2	8.2K 1/4W	330-3082	1
R3	12K 1/4W	330-4012	1
R4	4.7K 1/4W	330-4037	1
C1	3.3µf 15V TANT.	300-4016	1
Q1	SIL. TRANS.	375-1005	1
D	SIL. DIODE	380-1001	1

COMPONENT LAYOUT

COMPONENT LAYOUT 6028-1



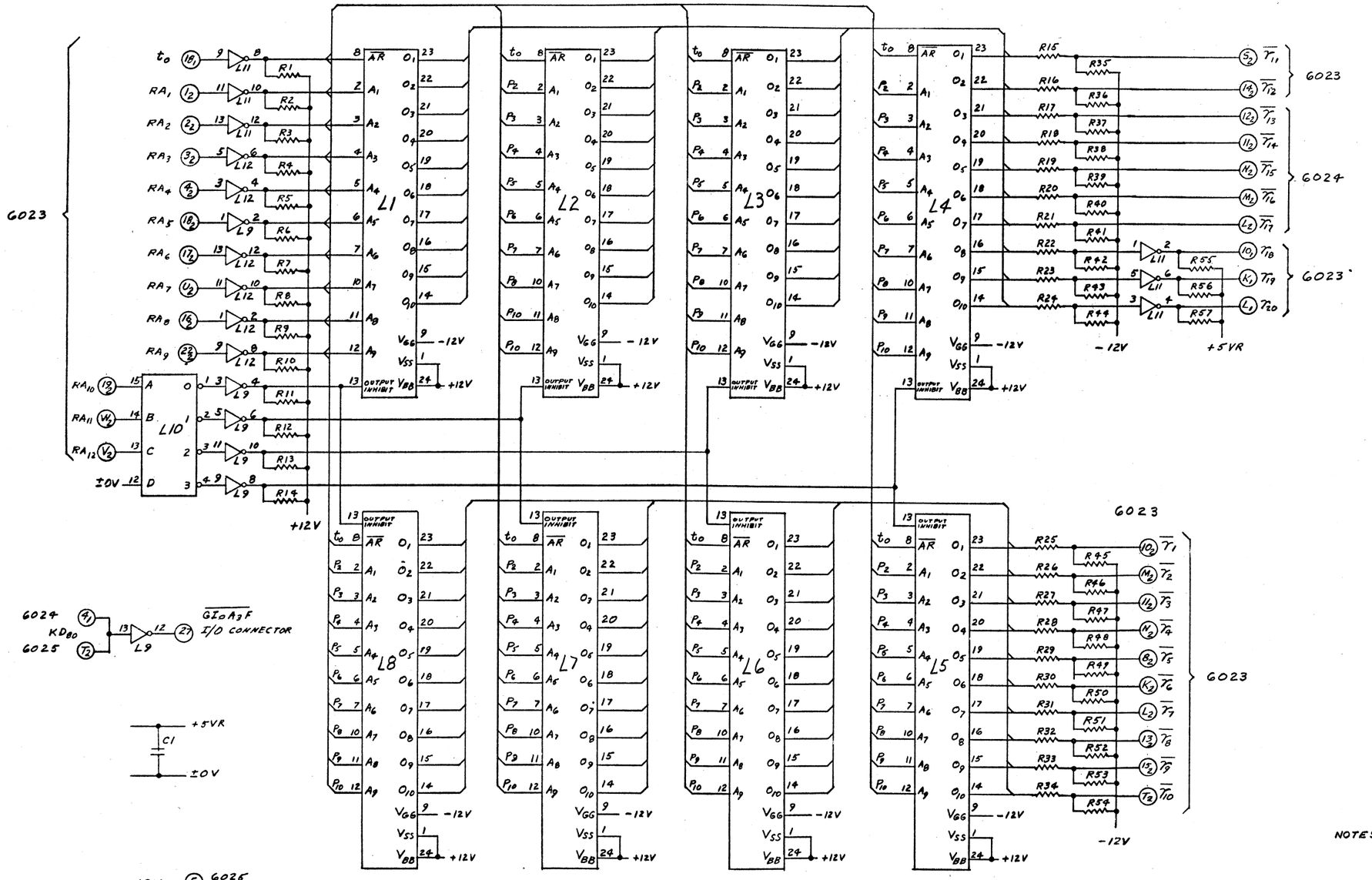
NO	REVISION	BY	DATE	APP'D
1	REDRAWN AND REVISED PER E.C.#3153 SEE 6342 LOGIBLOC DWG.	F.S.S.	9-14-72	
2	REVISED PER E.C.#3419	T.Lilly	12-5-72	
3	REVISED PER E.C.#3434	T.Lilly	12-15-72	
4	REVISED PER E.C.#3605	T.Lilly	3-6-73	
5	REVISED PER E.C.#3643	T.Lilly	3-30-73	

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. | DRAWN F.S.S. 9-14-72 | APP'D | CHECKED | APP.

TITLE SCHEMATIC LOGIBLOC #6028-1 & #6342 MOD. 450,452,462 KEYBOARD

SHT 1 OF 1 | DWG. NO. D 6028-2 | REV. 5



LOCATION	TYPE	W.L. PART No.	TERM. No. V_{CC} +5VR	TERM. No. ±0V	QTY
L1, 2, 3, 4, 5, 6, 7, 8	EA4000	SEE NOTE 1	—	—	8
L9, 11, 12	SN7406N	376-0055	14	7	3
L10	SN7442N	376-0008	16	8	1

COMPONENT	SIZE/TYPE	WL. PART No.	QTY
R1	470Ω ½W	331-2047	1
R2 THRU R14	1K ¼W	330-3010	13
R15 THRU R34 R55, 56, 57	2.2K ¼W	330-3022	23
R35 THRU R54	6.8K ¼W	330-3068	20
C1	.02 μF	300-1904	1

NOTES.
1. EA4000 I.C. CHIP VARIES WITH 400 MODEL APPLICATION.

NO.	REVISION	BY	DATE
1	PER ECN 3075 R1 WAS 1K APP: J. Nash	RD	6/30/72
2	REVISED PER ECN #3154 APP: J. Nash	RD	8-21-72

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
400	CHECKED		APP.	

TITLE: SCHEMATIC LOGIBLOC 6029 20 BIT R.O.M & MOTHER BOARD

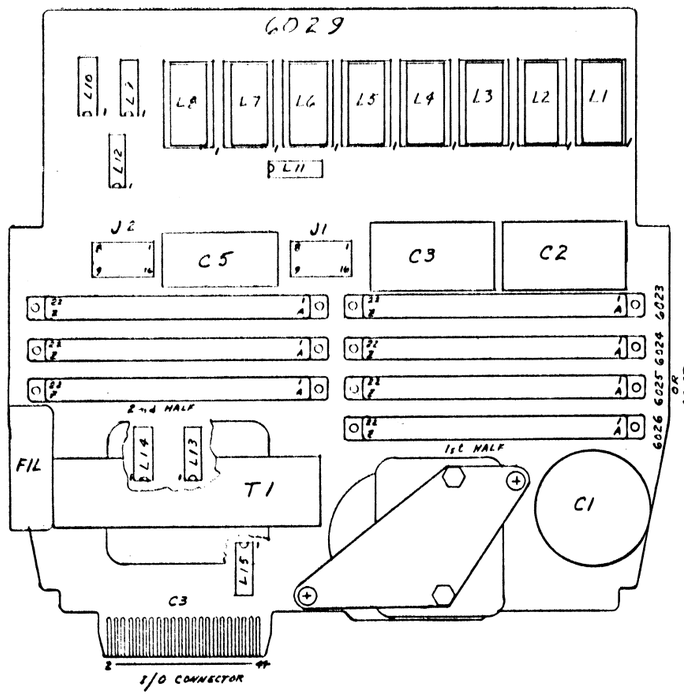
SHT 1 OF 3 | DWG. NO. D 6029-1 | REV. 2

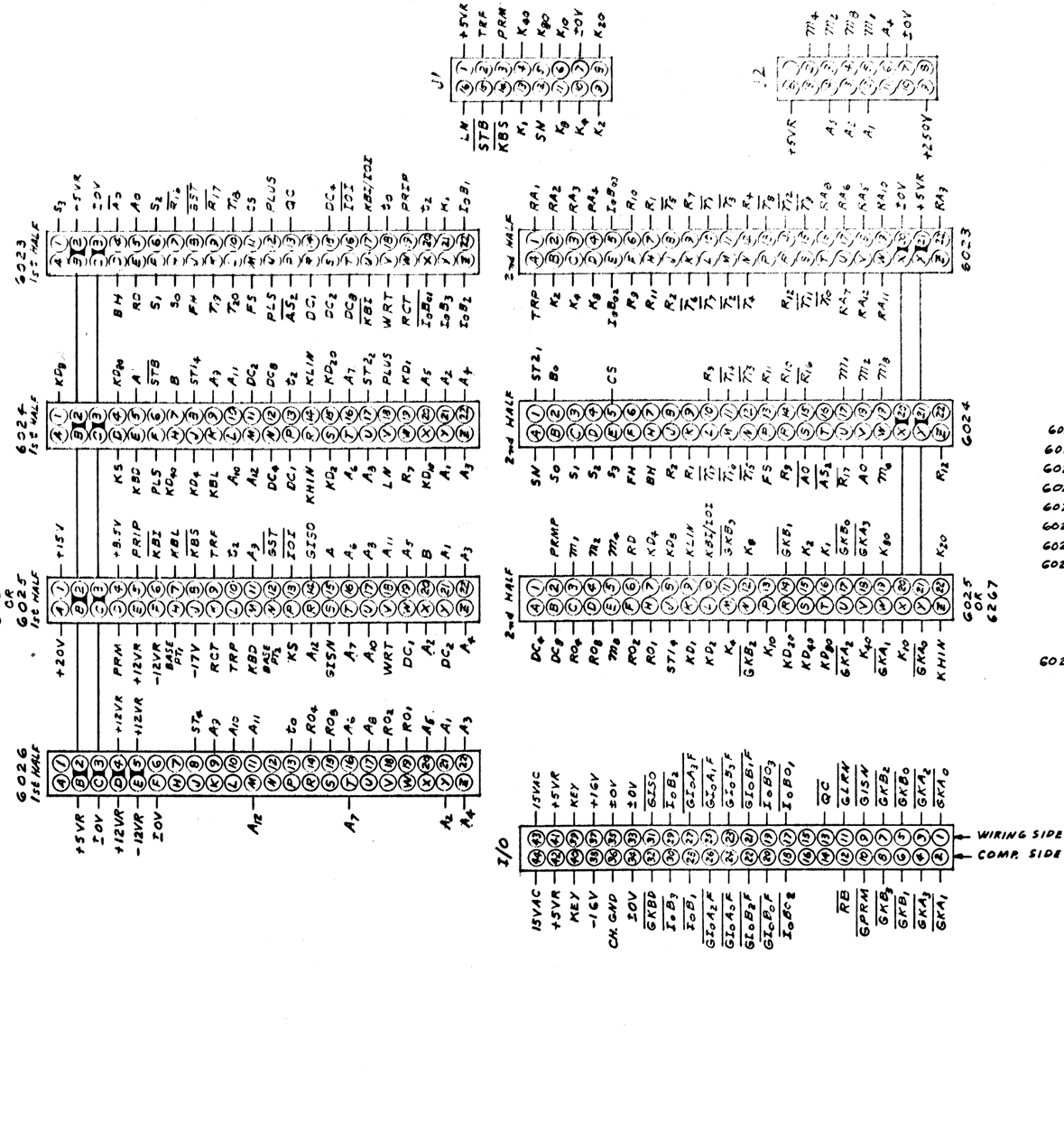
DO NOT SCALE

LOCATION	TYPE	W.L. PART NO.	TERM. M. V_{CC} ±5VR	TERM. M. GOV	QTY
L13,14,15	SN7400N	376-0010	14	7	3

COMP.	SIZE/TYPE	W.L. PART NO.	QTY
J1,2	16 PIN SOCKET	376-9005	2
	44 PIN CONN	350-0012M	8
SOCKET	24 PIN	376-9007	8

COMPONENT LAYOUT





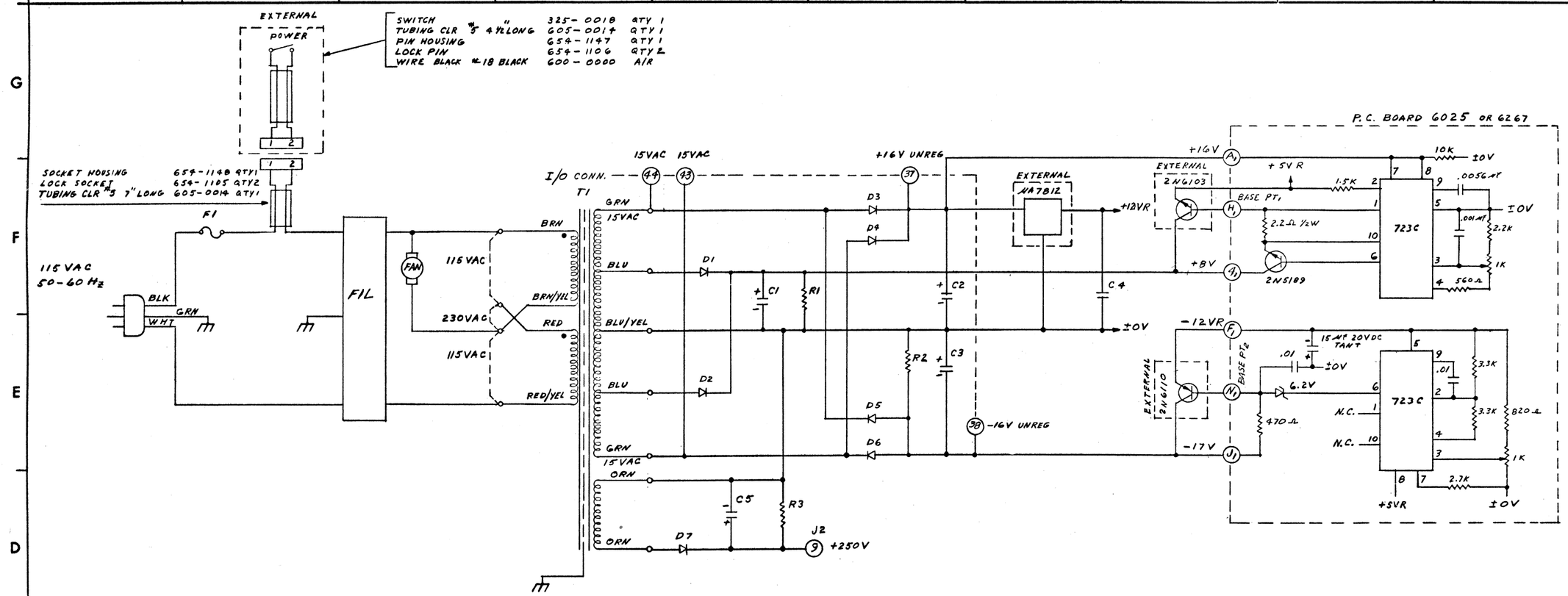
REVISION	DATE	BY

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	DATE	APP.	
400	CHECKED	6/27/72	APP.	7/27/72

TITLE SCHEMATIC LOGIBLOC 6029 I/O AND MOTHER BOARD

SHT 2 OF 3 | DWG. NO. D 6029-1 | REV. 1



COMP.	SIZE / TYPE	W.L. PART NO.	QTY
R1,2	10K ½ W	331-4010	2
R3	270K ½ W	331-2027	1
C1	19 MF 12V	300-3045	1
C2,3	2000 MF 20V	300-3058	2
C4	.02 MF CER.	300-1904	1
C5	16 MF 350VDC	300-3308	1
D1,2	GE A15F	380-3004	2
D3,4,5,6,7	EM 403	380-4000	5
F1	1 A S.B. 125V	360-10105B	1
	.6A S.B. 250V	360-10065B	1
FILTER	LINE FILTER	410-2001	1
FAN	MOTOR	400-0014	1
	IMPELLER	400-9002	1
T1	MMC-4328-5	410-0074	1
REGULATOR	MA 7812	374-0000	1
	2NG103	375-1035	1
	2NG110	375-1034	1

NO	REVISION	BY	DATE
1	PER ECN 3042 C4 WAS .1 MF APP J Whitty	JWhitty	6/5/72
2	REVISED PER ECN # 3279 APP: J Whitty	JWhitty	10-9-72
3	PER ECN 3736 CHANGED FUSES APP: D J Whitty	JWhitty	1-23-73
4	PER ECN # 3925 CHNGD FUSES APP D J Whitty	JWhitty	11-27-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

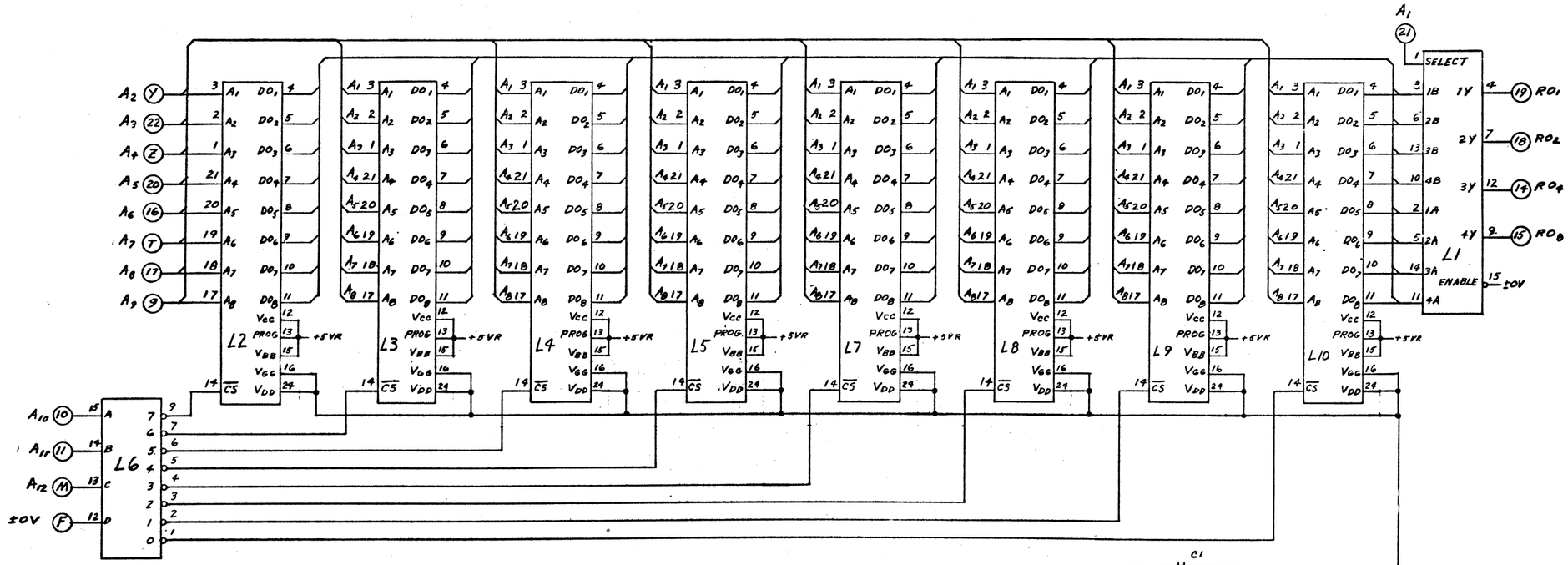
MODEL NO. 400 | DRAWN [illegible] 6-27-72 | APP. [illegible] | CHECKED | APP.

TITLE SCHEMATIC LOGIBLOC 6029 POWER SUPPLY & MOTHER BOARD

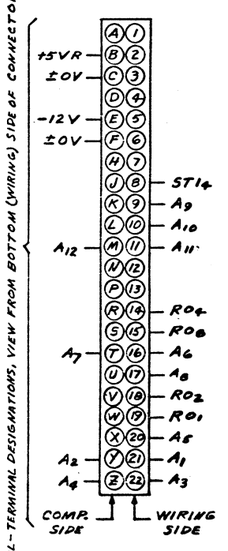
SHT 3 OF 3 | DWG. NO. D 6029-1 | REV. 4

D 6029-1

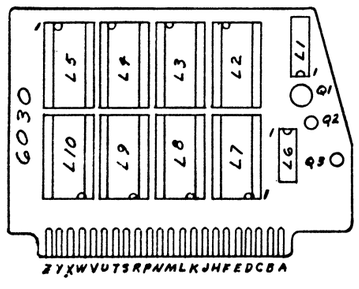
DO NOT SCALE



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



COMPONENT LAYOUT



LOCATION	TYPE	W.L. PART NO.	TERM. NO. V_{CC} +5V	TERM. NO. ±0V	QTY
L1	93L22	376-0142	16	8	1
L2,3,4,5 7,8,9,10	INTEL 1702	377-0009	—	—	8
L6	SN7442N	376-0008	16	8	1

COMP.	SIZE/TYPE	W.L. PART NO.	QTY
R1	47K ¼W	330-3047	1
R2,5,8	10K ¼W	330-4010	3
R3, 6	1K ¼W	330-3010	2
R4	3.3K ¼W	330-3033	1
R7	470Ω ¼W	330-2047	1
C1	10MF 15V DC	300-3006	1
C2	.001 CER.	300-1906	1
D1,2,3,4	EM403	380-4000	4
Q1	2N5189	375-1021	1
Q2	GT545	375-1016	1
Q3	2N3014	375-0017	1
	24 PIN SOCKET	376-9003	8

NO.	REVISION	BY	DATE
1	PER ECN #3130 REVISED ASSY PART NO AND CONNECTED TO ECO #3128	MD	9-6-73
2	PER ECN #3258 L1 WAS 74157 APP'D JAM	MD	6-29-73

WANG LABORATORIES INC. TEWKSBURY, MASS.				
MODEL NO. 400	DRAWN JB	6/11/72	APP. [illegible]	11/6/72
	CHECKED		APP.	
TITLE: SCHEMATIC LOGIBLOC 4 BIT R.O.M.				
SHT OF	DWG. NO. D 6030-1		REV. 2	

DO NOT SCALE

HOLE LEGEND

DRILLED OR PUNCHED HOLE TOLERANCES:	HOLE DIA.	TOL.
	.0135 to .125	±.002
	.126 to .350	±.003
	.351 to .500	±.004
		±.005

IDENT.	DESCRIPTION	QTY.
A		

LOCATION	TYPE	W.L. PART NO.	TERM. NO. V_{cc} +5VR	TERM. NO. -12V	QTY
L1	EA90130	377-0030			1
L2	EA90132	377-0032			1
L3	EA90134	377-0034			1
L4	EA90135	377-0035			1
L5	EA90133	377-0033			1
L6	EA90131	377-0031			1
L7,9,11	SN7406N	376-0055	14	7	1
L8,32,38	9321	376-0096	16	8	3
L10,18,25	SN74L98	376-0101	16	8	3
L12,13,16,18, 28,42,43	SN7404N	376-0010	14	7	7
L15,20,29	73L16	376-0101	16	8	3
L16,17,18,41	93L00	376-0140	14	8	4
L21,23,24,26	SN7815IN	376-0047	16	8	4
L26	SN7492N	376-0008	16	8	1
L27	SN7632N	376-0093	14	7	1
L30	SN74L74N	376-0007	5	13	1
L31	SN7473N	376-0005	4	11	1
L32,33,34,35	9338	376-0100	16	8	4
L36,49	SN7800N	376-0002	14	7	2
L40	SN7408N	376-0081	14	7	1
L44,46	SN74153N	376-0048	16	8	2
L45	93L22	376-0142	16	8	1
L47	9334	376-0025	14	7	1
L48	SN7450N	376-0019	14	7	1
L50	SN7402N	376-0016	14	7	1
L51	SN74181N	376-0099	24	12	1

COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY
R1 THRU 20	6.8K	¼W 330-3068	20
R21 THRU 40	2.7K	¼W 330-3027	20
R41, R48 THRU 62	1K	¼W 330-3010	16
R42 THRU 47, 63	2.2K	¼W 330-3022	7
RG3	180Ω	¼W 330-2018	1
RG4	1.8K	¼W 330-3018	1
RG5, 66	220Ω	¼W 330-2022	2
RG7, 68	4.7K	¼W 330-3047	2
D1, 2	GERM. DIODE	380-0000	2
XTAL	4 MHz	321-0011	1
C25	.02 MF	300-1904	1
C26	47PF	300-1041	1

J1 KEYBOARD

GISN	1	2	+5VR
KB S	3	4	KAB
KBD	5	6	PRIM
KB0	7	8	KA2
KB3	9	10	KA0
KB2	11	12	±0V
KB1	13	14	KA1

J2 DISPLAY

+5VR	A	1	
	B	2	m4
4	C	3	m2
2	D	4	m8
1	E	5	m1
	F	6	B
	H	7	±0V
+250V	J	8	

I/O CONNECTOR

WIRING SIDE / COMP. SIDE

GKA1	GKA3	GKB1	GKB3	PRIM	KAB											KBD	±0V	±0V	±0V	+5VR					
1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52
GKA0	GKA2	GKB0	GKB2	GISN													±0V	±0V	±0V	+5VR					

QTY.	NAME	MATERIAL	DESCRIPTION

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

	BY	DATE	APPROVED BY	DATE
DWN			E ENGR	
CHK			PM ENGR	
E.C. CONTROL			MFG ENGR	

MATERIAL — MODEL NO. 400L — SEE ENGRG SPECIFICATIONS No.

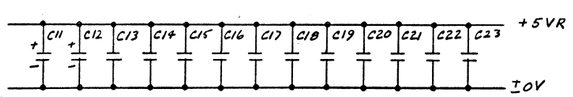
FINISH — TOL. EX. AS NOTED: XX ± .010 FRAC ± 1/64; XXX ± .005 ANG. ± 1°30' FINISH √

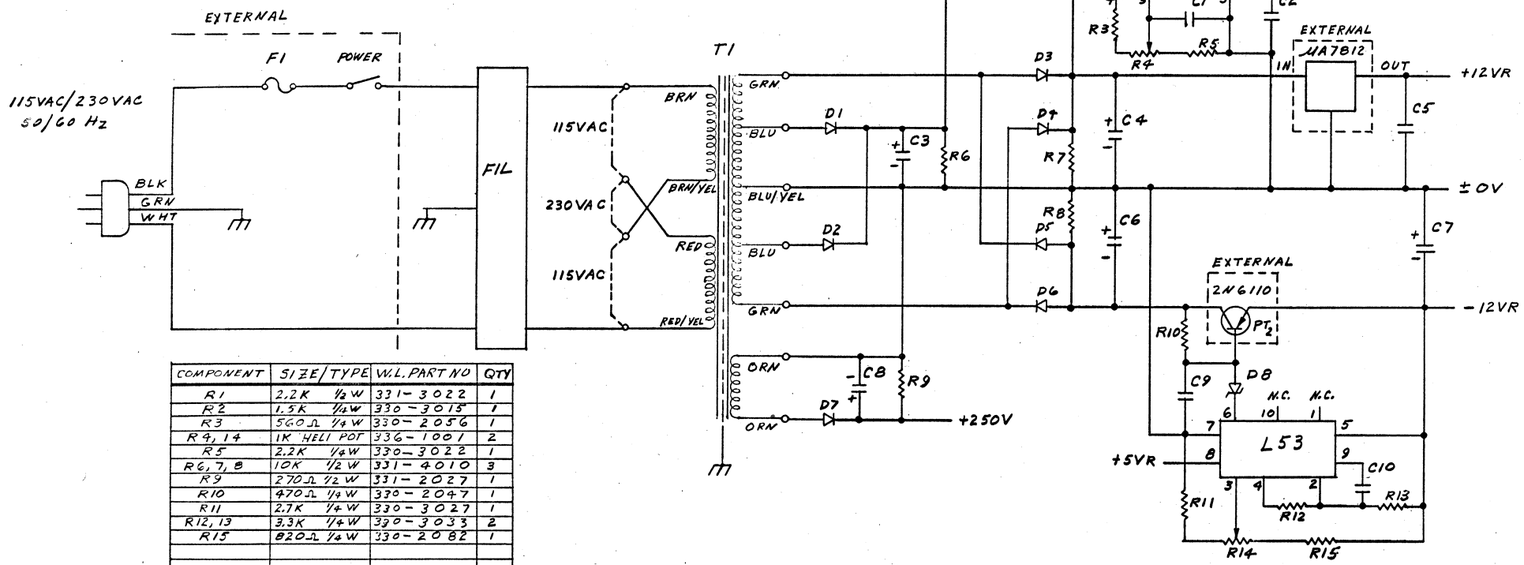
SCALE — SHT 1 OF 2

TITLE: SCHEMATIC LOGIBLOC 6247 MEMORY - MOTHER BOARD

WANG PART NUMBER: E 6247-1 — SIZE: 5 — DRAWING NUMBER — REV.

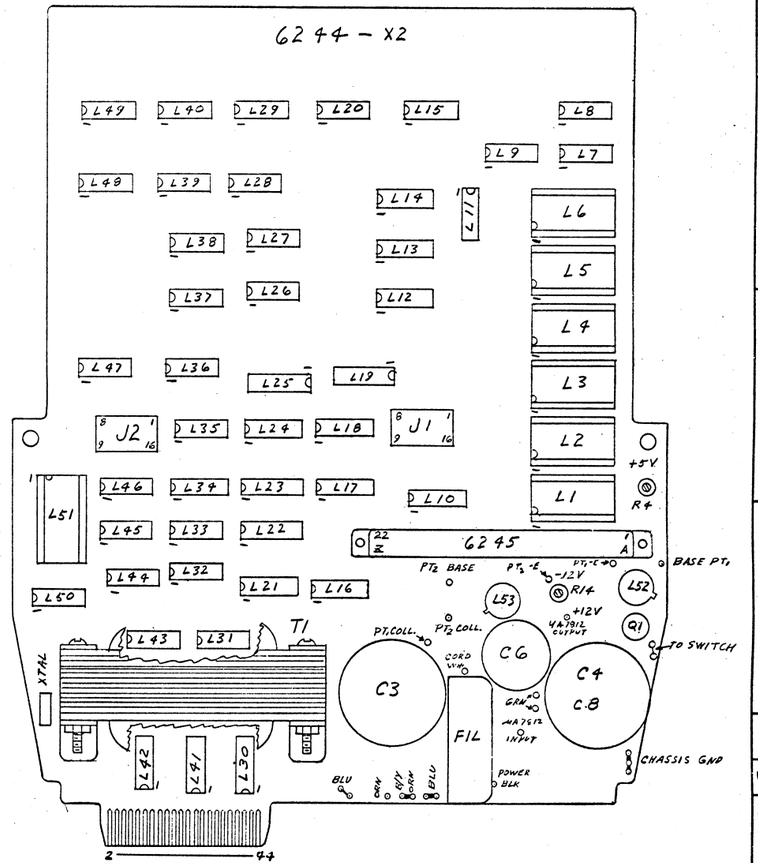
REV.	REVISION	BY	DATE
1	REVISED PER ECN #3240 ADDED R68	WS	6-7-72
2	REVISED PER ECN #3281 ADDED SHEET 2	BG	10-9-72
3	PER ECN #3467 ADDED R67 & R68 ADDED SHEET 2	BG	2-1-73
4	REVISED PER ECN #3710 ADDED C25	BG	7-2-73
5			





COMPONENT	SIZE/TYPE	W.L. PART NO	QTY
R1	2.2K 1/2 W	331-3022	1
R2	1.5K 1/4W	330-3015	1
R3	560Ω 1/4 W	330-2056	1
R4, 14	1K HELI POT	336-1001	2
R5	2.2K 1/4W	330-3022	1
R6, 7, 8	10K 1/2 W	331-4010	3
R9	270Ω 1/2 W	331-2027	1
R10	470Ω 1/4 W	330-2047	1
R11	2.7K 1/4 W	330-3027	1
R12, 13	3.3K 1/4W	330-3033	2
R15	820Ω 1/4W	330-2082	1
C1	.001MF	300-1905	1
C2	.0056MF	300-1915	1
C3	14KMF 12V	300-3045	1
C4	5KMF 20V	300-3018	1
C8	30MF 350VDC		
C5	.02MF 25V	300-1904	1
C6	2KMF 20V	300-3058	1
C7, 11, 12	15MF 20V	300-4022	3
C9, 10	.01MF	300-1903	2
C13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23	.05MF CER	300-1900	11
Q1	2N5189	375-1021	1
D1, 2	GE A15F	380-3004	2
D3, 4, 5, 6, 7	EM 403	380-4000	5
D8	ZENER 6.2V	380-2062	1
T1	MMC-4328-5	410-0074	1
FIL.	LINE FILTER	410-2002	1
CONN.	44 PIN CONN.	350-0031	1
J1, J2	16 PIN SOCKET	376-9005	2
	24 PIN SOCKET	376-9003	7
F1	.6A S.B. 125V	360-100758	1
	.3A S.B. 250V	360-100358	1

COMP.	TYPE	W.L. PART NO.	QTY
L52, 53	723	376-0066	2

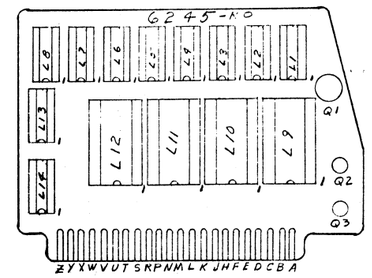


NO.	REVISION	BY	DATE
4	PER ECN #3476 CHANGED FUSE. APP'D	JDH	1-23-73

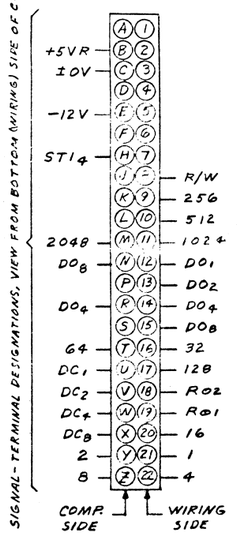
WANG LABORATORIES INC. TEWKSBURY, MASS.					
MODEL NO. 400L	DRAWN		6-25-72	APP.	10-6-72
	CHECKED			APP.	
TITLE SCHEMATIC LOGIBLOC 6244 POWER SUPPLY AND MOTHER BOARD					
SHT 2 OF 2		DWG. NO. D 6244-1			REV. 4

DO NOT SCALE

COMPONENT LAYOUT



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



COMP.	SIZE/TYPE	W.L PART NO.	QTY
R1	4.7K 1/4W	330-3047	1
R2,5,8	10K 1/4W	330-4010	3
R3,6	1K 1/4W	330-3010	2
R4	3.3K 1/4W	330-3033	1
R7	470Ω 1/4W	330-2047	1
C1,4	15MF 20V	300-4022	2
C2	.001MF	300-1906	1
C3	.05MF	300-1900	1
D1,2,3,4	SIL DIODE	380-1001	4
D5,6,7,8	EM403	380-4000	4
Q1	2N5189	375-1021	1
Q2	GT-545	375-1016	1
Q3	2N3014	375-0017	1
SOCKET	16 PIN	376-9002	8
SOCKET	24 PIN	376-9003	4

LOCATION	TYPE	W.L. PART NO.	TERM. NO V_{CC} +5VR	TERM. NO. IOV	QTY
L1,2,3,4, 5,6,7,8	1101A	377-0000	5	—	8
L9,10,11,12	1702	377-0009	—	—	4
L13	9321	376-0096	16	8	1
L14	SN74157N	376-0082	16	8	1

REVISION	BY	DATE
PER ECN # 3592 REMOVED SIGNALS AND CHANGED TO 0V APP'D	CG	9-6-73
REVISED PER ECN # 3646 APP'D	CG	6-4-73
REVISED PER ECN # 3713 APP'D	CG	7-2-73

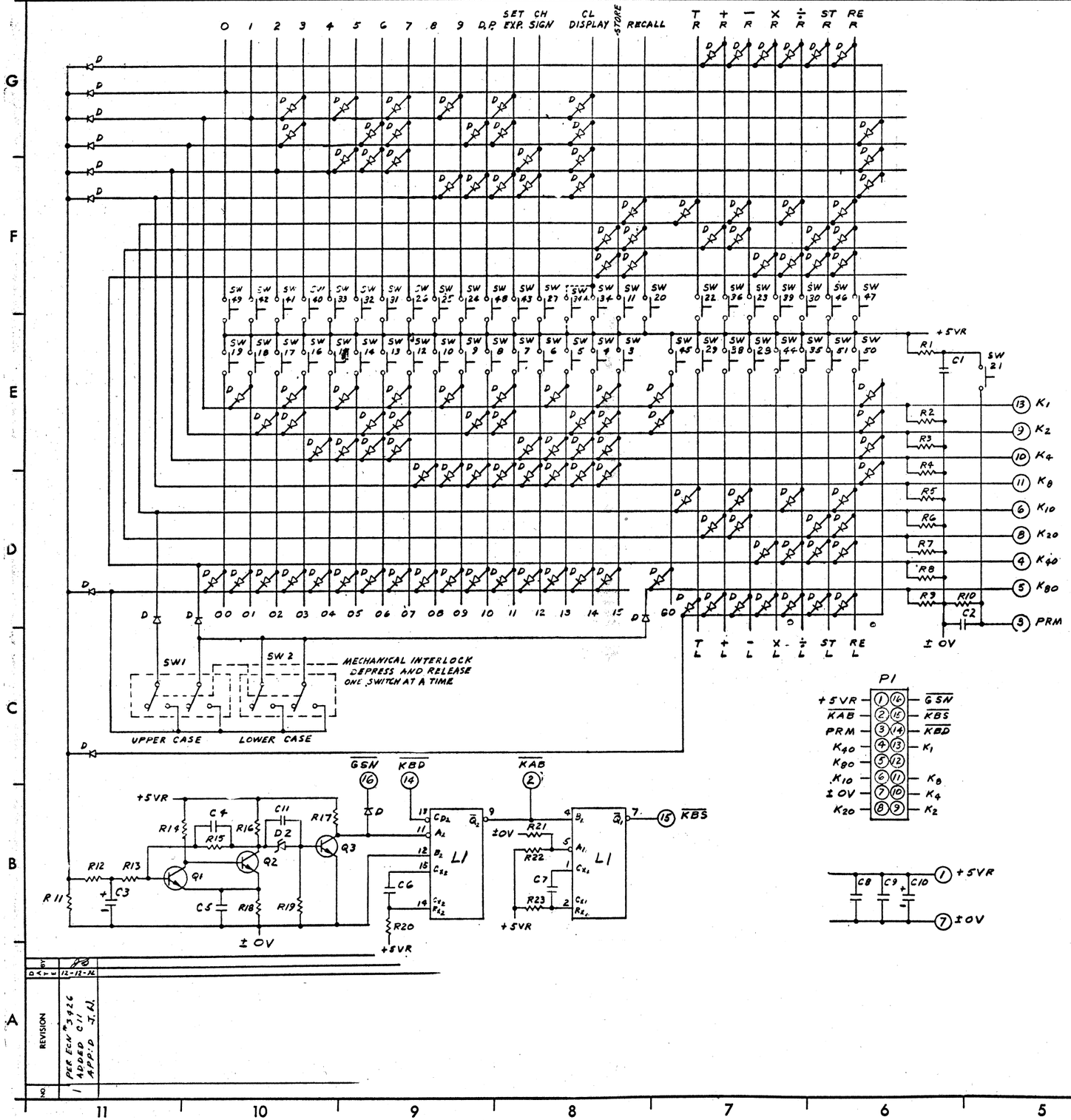
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	CHECKED	APP.	APP.
400L	6/17/72			11/6/72

TITLE: SCHEMATIC LOGIBLOC RAM / ROM 6245

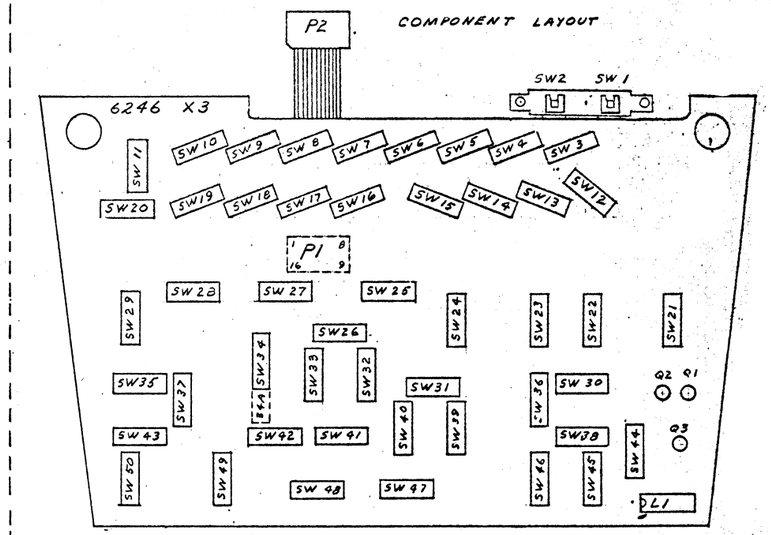
SHT OF | DWG. NO. D 6245-1 | REV. 3

DO NOT SCALE



P1

COMPONENT LAYOUT



LOCATION	TYPE	W.L. PART No.	TERM. No. ± 0V	TERM. No. V_{cc} +5VR	QTY
L1	9602	376-0104	8	16	1

COMPONENT	SIZE/TYPE	W. L. PART NO.	QTY
R1	100K ¼W	330-5010	1
R2,3,4,5,6,7,8,9,16,17,22	2.2K ¼W	330-3022	11
R10	220Ω ¼W	330-2022	1
R11,19,21	3.3K ¼W	330-3033	3
R12,13,14	1K ¼W	330-3010	3
R15,20,23	10K ¼W	330-4010	3
R18	520Ω ¼W	330-2052	1
C1,4,5	.01μF CER.	300-1903	3
C2	.002μF CER.	300-1913	1
C3	5.6μF 35V TANT	300-4017	1
C6	220 PF CER.	300-1220	1
C7	82 PF CER	300-1082	1
C8,9	.05μF CER	300-1900	2
C10	15μF 20V TANT	300-4022	1
C11	220PF CER	300-1220	1
D	DIODE SIL	380-1001	134
D2	1N746A 3.3V	380-2033	1
Q1,2,3	TRANS. SIL	375-1005	3
SW1, 2	PUSH BUTTON	325-2220	2
SW3 THRU 50	11SM804	325-2300	48
P1	CABLE ASS'Y	420-2000	1

NOTE:
1. P.C BOARD WITH 2 I.C.'S SEE DWG. D6246-2

NO	REVISION	BY	DATE
1	PER ECN #3926 ADDED C11 APP'D J.H.	RB	12-12-72

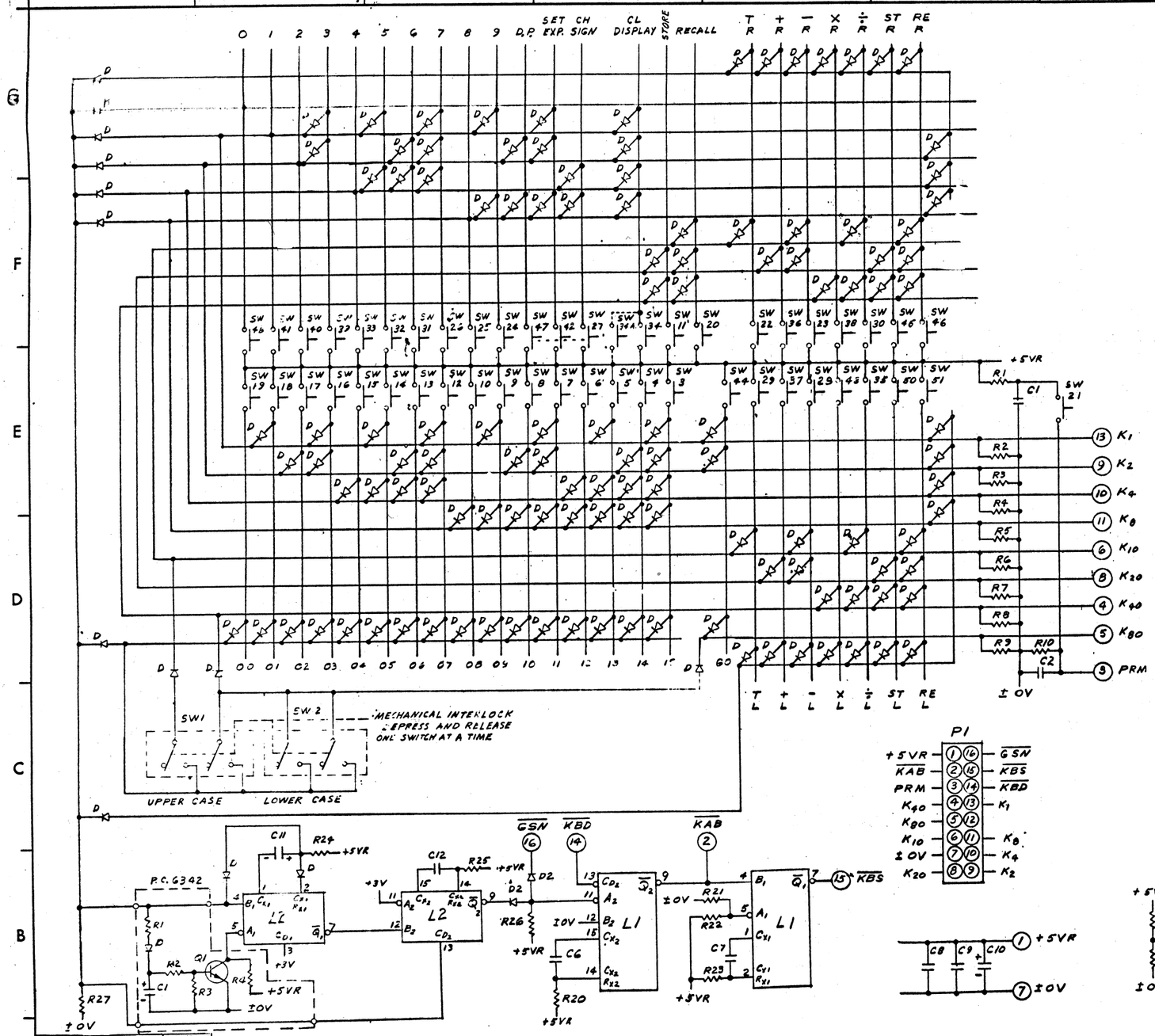
WANG LABORATORIES INC.
TEWKSBURY, MASS.

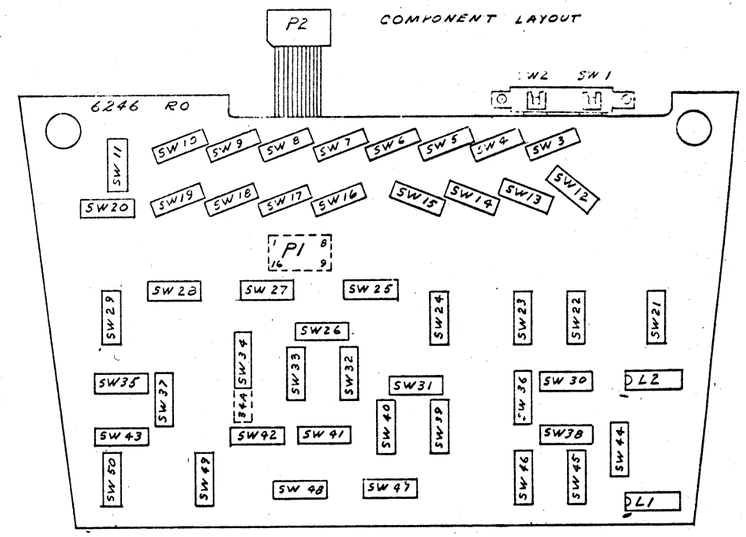
MODEL NO.	DRAWN	CHECKED	APP.
400L	RB 11-17-72		

TITLE: SCHEMATIC LOGBLOC 6246 KEYBOARD

SHT OF | DWG. NO. D 6246-1 | REV. 1

D 6246-1





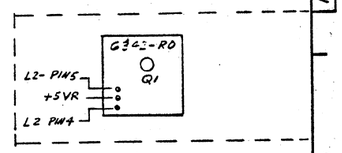
LOCATION	TYPE	W.L. PART No.	TERM. No. ⏚ 0V	TERM. No. Vcc +5VR	QTY
L1,2	9602	376-0104	8	16	2

COMPONENT	SIZE/TYPE	W. L. PART NO.	QTY
R1	100K ¼W	330-5010	1
R2,3,4,5,6,7,8,9, 22	2.2K ¼W	330-3022	9
R10,27	220Ω ¼W	330-2022	2
R21,29	3.3K ¼W	330-3033	2
R24, 25	82K ¼W	330-4823	2
R20,23	10K ¼W	330-4010	2
R26	4.7K ¼W	330-3047	1
R28	1.2K ¼W	330-3012	1
C1, 4	.01MF CER.	300-1903	2
C2	.002MF CER.	300-1913	1
C11	15MF TANT	300-4011	1
C6	220 PF CER.	300-1220	1
C7	82 PF CER	300-1082	1
C8, 9	.05MF CER	300-1900	2
C10	15MF 20V TANT	300-4022	1
C12	.001MF CER	300-1906	1
D	DIODE SIL	380-1001	135
D2	DIODE GER.	380-0006	2
SW1, 2	PUSH BUTTON	325-2220	2
SW3 THRU 50	115MB04	325-2306	48
P1	CABLE ASS'Y	420-2000	1

PC BOARD 6342

COMPONENT	SIZE/TYPE	W.L. PART No	QTY
R1	220Ω ¼W	330-2022	1
R2	8.2K ¼W	330-3082	1
R3	12K ¼W	330-4012	1
R4	4.7K ¼W	330-3047	1
C1	3.3MF TANT	300-4016	1
Q1	TRANS. SIL	375-1005	1
D	DIODE SIL	380-1001	1

NOTE:
1. P.C. BOARD WITH 3 TRANSISTORS SEE DWG. D6246-1.



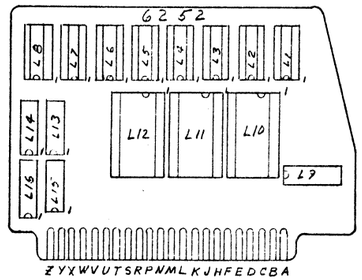
NO.	REVISION	BY	DATE
2	REVISED PER ECN 3419 APP'D J.N.	JN	12-5-72
3	PER ECN #3604 ADDED P.C. BOARD 6342 APP'D J.N.	JN	9-29-73
4	PER ECN #3644 C11 WAS 2.2 MF ADD SIL DIODE APP'D J.N.	JN	5-30-73

WANG LABORATORIES INC. TEWKSBURY, MASS.				
MODEL NO. 400L	DRAWN	11-17-72	APP.	
	CHECKED		APP.	
TITLE SCHEMATIC LOGIBLOC 6246 KEYBOARD (6342)				
SHT OF	DWG. NO. D 6246-2		REV. C	

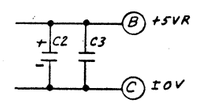
DO NOT SCALE

NO.	REVISION	DATE	BY

COMPONENT LAYOUT
6252



LOCATION	TYPE	W.L. PART NO.	TERM. No. V_{CC} +5VR	TERM. No. IOV	QTY
L1, 2, 3, 4, 5, 6, 7, 8	1101A	377-0000	5	—	8
L9	SN74157N	376-0082	16	8	1
L10, 11, 12	EA-4000		—	—	3
L13, 14, 15	SN7406N	376-0055	14	7	3
L16	9321	376-0096	16	8	1



COMPONENT	SIZE/TYPE	W.L PART NO.	QTY
R1 THRU R15	1K ¼W	330-3010	15
R16 THRU R23	2.7K ¼W	330-3027	8
R24 THRU R31	6.8K ¼W	330-3066	8
C1, 2	10 MF 15V	300-3006	2
C3	.05 MF CER	300-1900	1
D1, 2, 3, 4	SIL DIODE	380-1001	4
D5, 6, 7, 8	EM403	380-4000	4
SOCKET	16 PIN	376-9002	8
SOCKET	24 PIN	376-9003	3

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

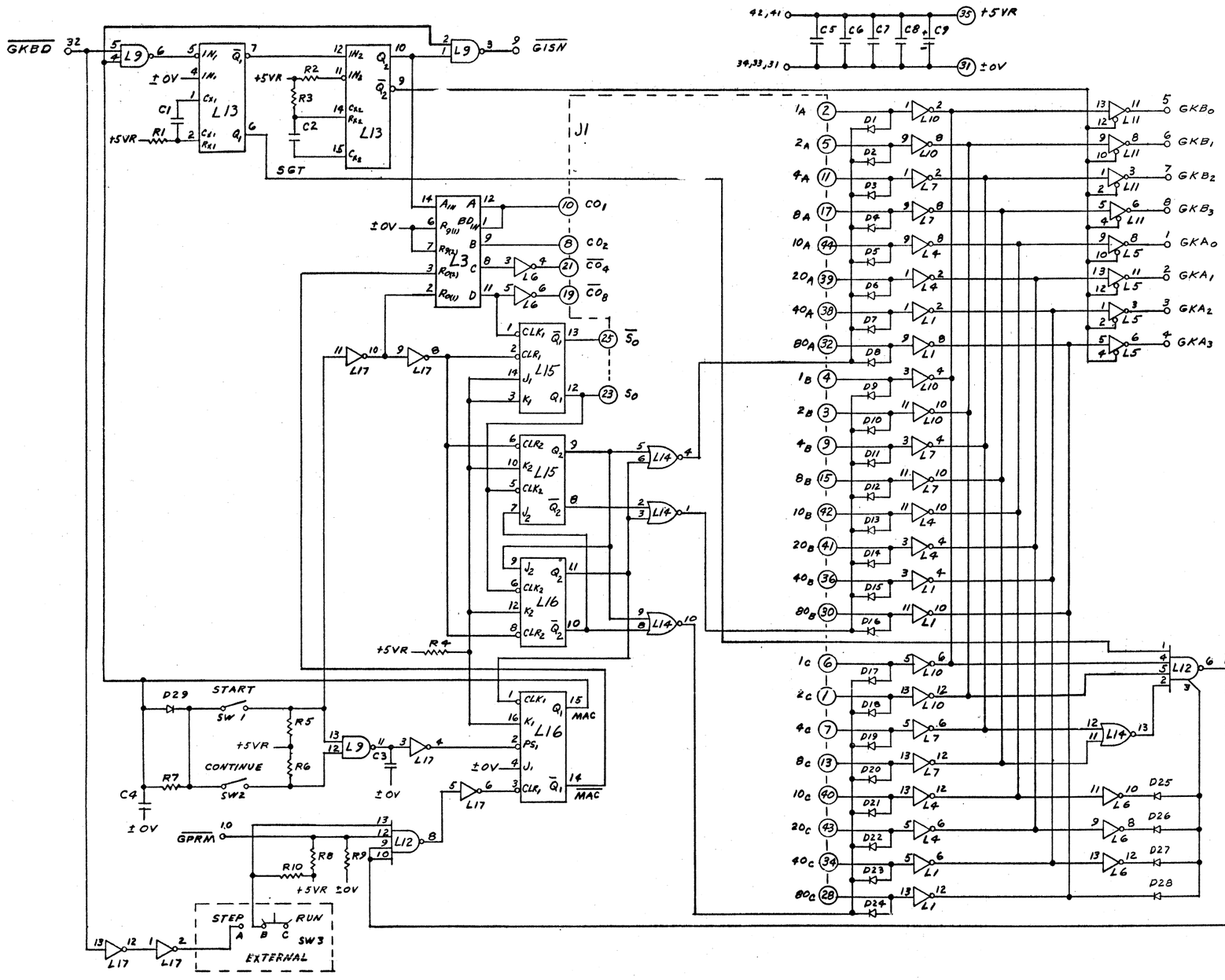
	A 1		
+5VR	B 2		
IOV	C 3		
+12V	D 4		
-12V	E 5		
	F 6		
	H 7		
	J 8		R/W
	K 9		256
	L 10		512
2048	M 11		1024
DO_8	N 12		DO_1
to	P 13		DO_2
DO_4	R 14		RO_4
	S 15		RO_8
64	T 16		32
DC_1	U 17		128
DC_2	V 18		RO_2
DC_4	W 19		RO_1
DC_8	X 20		16
2	Y 21		1
8	Z 22		4

COMP. SIDE — WIRING SIDE

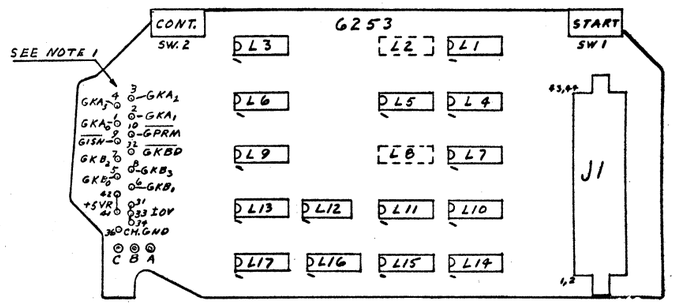
WANG LABORATORIES INC. TEWKSBURY, MASS.					
MODEL NO. 400L	DRAWN JB	6/30/72	APP.		
	CHECKED		APP.		
TITLE SCHEMATIC LOGIBLOC 6252 R.A.M. / ROM					
SHT OF	DWG. NO. D 6252-1			REV.	

D 6252-1

DO NOT SCALE



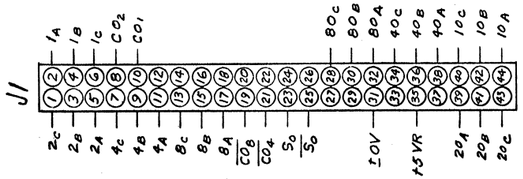
COMPONENT LAYOUT



LOCATION	TYPE	W.L. PART NO	TERM. NO. ±0V	TERM. NO. V_{cc} +5VR	QTY
L1, 4, 7, 10	9935	376-0025	7	14	4
L3	SN7490N	376-0073	10	5	1
L5, 11	8T09	376-0078	7	14	2
L6, 17	SN7409N	376-0010	7	14	2
L9	9946	376-0023	7	14	1
L12	MC844	376-0024	7	14	1
L13	9602	376-0104	8	16	1
L14	SN7402N	376-0016	7	14	1
L15	SN7473N	376-0005	11	4	1
L16	SN7476N	376-0007	13	5	1

COMP.	SIZE/TYPE	W.L. PART NO.	QTY
R1,2,3,5,6	10K ½W	330-4010	5
R4	1K ½W	330-3010	1
R7	1MEG ½W	330-6010	1
R8	2.2K ½W	330-3022	1
R9	3.3K ½W	330-3033	1
R10	6.8K ½W	330-3068	1
C1, 2	.002 MF CER.	300-1913	2
C3	220PF CER.	300-1220	1
C4	.01 MF CER	300-1903	1
C5,6,7,8	.05 MF CER	300-1900	4
C9	15 MF 20V	300-4022	1
D1 THRU 29	SIL DIODE	380-1001	29
SW1,2	SPDT SWITCH	325-2305	2
J1	44 PIN CONN.	350-0027M	1
A, B, C	CONN. JACK	654-0009	3
SW 3	SPDT SL. SW.	325-2106	1

NOTE:-
1. FOR I/O CABLE SEE DWG D-5672-106

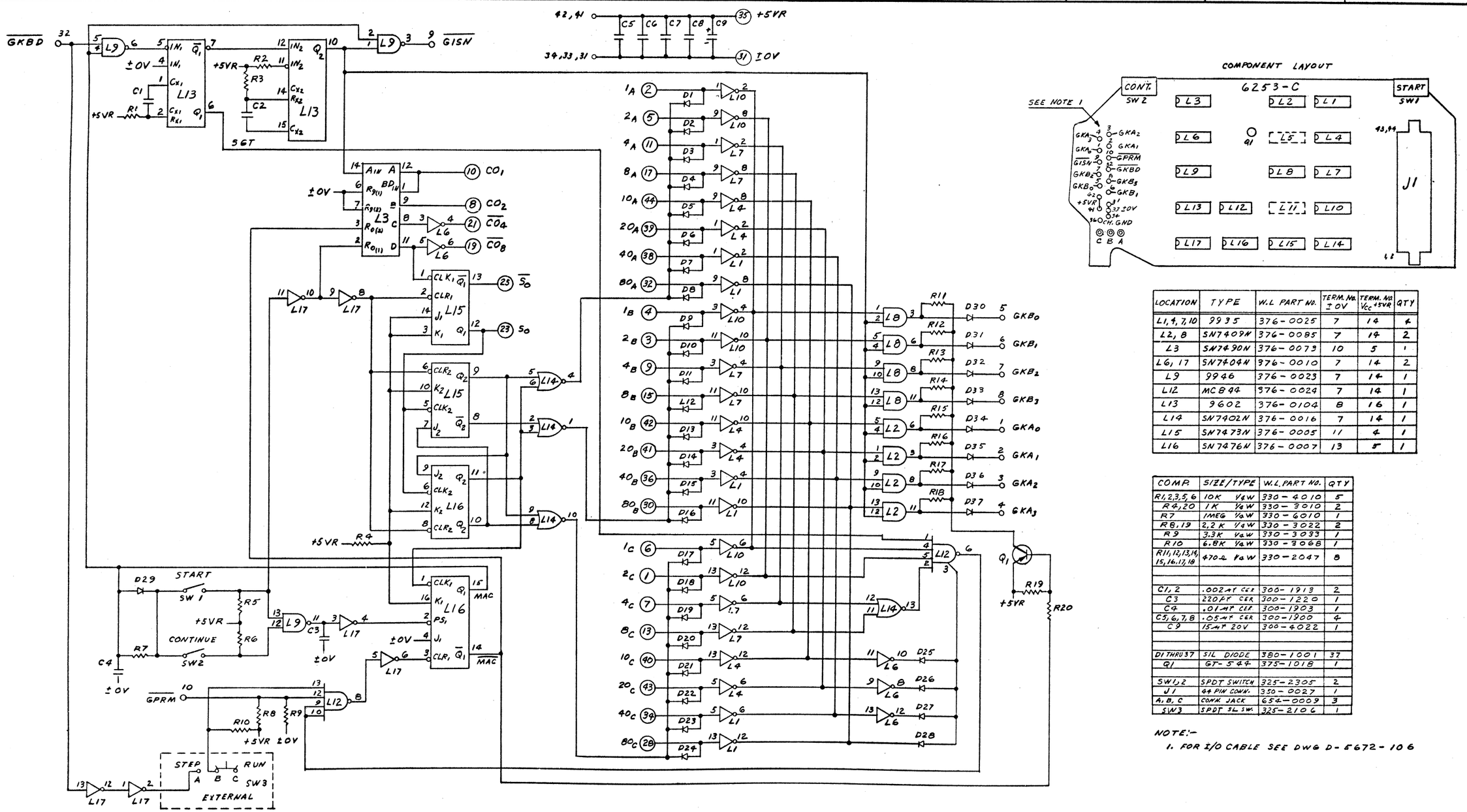


WANG LABORATORIES INC. TEWKSBURY, MASS.	
MODEL NO. 400	DRAWN BB 10-27-72 APP. KMO 11-13-72
	CHECKED APP.
TITLE SCHEMATIC LOGIBLOC # 6253 CARD READER	
SHT OF	DWG. NO. D 6253-1 REV.

D 6253-1

REVISION DATE NO.

DO NOT SCALE



COMPONENT LAYOUT

LOCATION	TYPE	W.L PART NO.	TERM. No. ±0V	TERM. No. V_{CC} +5VR	QTY
L1, 4, 7, 10	9935	376-0025	7	14	4
L2, 8	SN7409N	376-0085	7	14	2
L3	SN7490N	376-0079	10	5	1
L6, 17	SN7404N	376-0010	7	14	2
L9	9946	376-0023	7	14	1
L12	MC846	376-0024	7	14	1
L13	9602	376-0104	8	16	1
L14	SN7402N	376-0016	7	14	1
L15	SN7473N	376-0005	11	4	1
L16	SN7476N	376-0007	13	5	1

COMP.	SIZE/TYPE	W.L. PART NO.	QTY
R1,2,3,5,6	10K ¼W	330-4010	5
R4,20	1K ¼W	330-3010	2
R7	1MEG ¼W	330-6010	1
R8,19	2.2K ¼W	330-3022	2
R9	3.3K ¼W	330-3033	1
R10	6.8K ¼W	330-3068	1
R11,12,13,14, 15,16,17,18	470Ω ¼W	330-2047	8
C1, 2	.002MF CER	300-1913	2
C3	220PF CER	300-1220	1
C4	.01MF CER	300-1903	1
C5,6,7,8	.05MF CER	300-1900	4
C9	15MF 20V	300-4022	1
D1 THRU 37	SIL DIODE	380-1001	37
Q1	GT-544	375-1018	1
SW1,2	SPDT SWITCH	325-2305	2
J1	44 PIN CONN.	350-0027	1
A, B, C	CONN JACK	654-0009	3
SW3	SPDT SL SW.	325-2106	1

NOTE:-
1. FOR I/O CABLE SEE DWG D-5672-106

REV.	REVISION	BY	DATE

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	DATE	APP.	DATE
400L	CHECKED	10-30-72	APP.	11-13-72

TITLE: SCHEMATIC LOGIBLOC # 6253
CARD READER

SHT OF | DWG. NO. D 6253-C | REV.

DO NOT SCALE

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		

COMPONENT LAYOUT

LOCATION	TYPE	W.L. PART NO.	TERM. NO. V_{CC} +5V	TERM. NO. ±0V	QTY
L1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	1101A	377-0000	5	—	16
L17, 18	SN74492N	376-0008	16	8	
L19	SN74157N	376-0082	16	8	1
L20, 21, 22, 23, 24, 25, 26, 27	1702	377-0009	—	—	8

COMP.	SIZE/TYPE	W.L. PART NO.	QTY
R1, 8, 12, 13	10K ¼W	330-4010	4
R2, 10	3.3K ¼W	330-3033	2
R3, 5, 6, 9	1K ¼W	330-3010	4
R4, 7	470Ω ¼W	330-2047	2
R11	4.7K ¼W	330-3047	1
C1, 6	15 mf 20V TANT	300-4022	2
C2, 5	.05 mf CER.	300-1700	2
C3, 4	.001 mf CER.	300-1706	2
D1, 2, 3, 4, 10, 11, 12	SIL DIODE	380-1001	7
D5, 6, 7, 8	EM403	380-4000	4
D9	IN4733A	380-2052	1
Q1, 4	2N5189	375-1021	2
Q2, 5	GT545	375-1016	2
Q3	2N3014	375-0017	1
SOCKET	16 PIN	376-3002	16
SOCKET	24 PIN	376-3003	8

REV.	BY	DATE	REVISION
A	PG	6-8-73	REVISED PER ECN # 316 ADDED L-Wing
B	PG	7-20-73	REVISED PER ECN # 318 ADDED L-Wing
C	PG	7-25-73	REVISED PER ECN # 318 ADDED L-Wing

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	JCB	7/27/73	E ENGR	7/27/73
CHK			M ENGR	
E C CONTROL			MFG ENGR	

MATERIAL — MODEL NO. 400L — SEE ENGRG SPECIFICATIONS No.

FINISH

TOL. EX. AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG. ± 1°30' FINISH

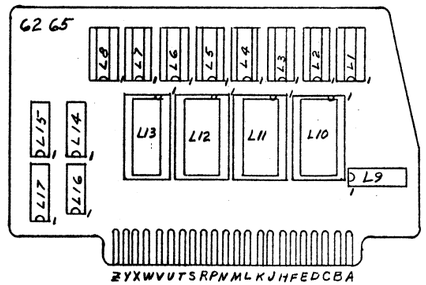
TITLE SCHEMATIC LOGIBLOC 6256 4 BIT R.O.M. (INTEL 1702)

SCALE — SHT — OF — WANG PART NUMBER — SIZE E — DRAWING NO. 6256-1 — REV. 3

DO NOT SCALE

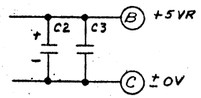
NO.	REVISION	DATE	BY

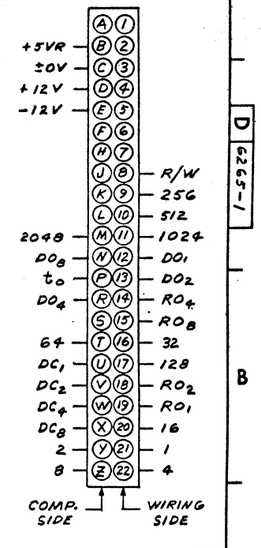
COMPONENT LAYOUT



COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY
R1 THRU R16	1K 1/4W	330-3010	16
R17 THRU R24	2.7K 1/4W	330-3027	8
R25 THRU R32	6.8K 1/4W	330-3068	8
C1, 2	15 MF 20V TANT	300-4022	2
C3	.05 MF CER	300-1900	1
D1, 2, 3, 4	DIODE SIL.	380-1001	4
D5, 6, 7, 8	EM 403	380-4000	4
SOCKET	16 PIN	376-9002	8
SOCKET	24 PIN	376-9003	4

LOCATION	TYPE	W.L. PART No.	TERM. No ±0V	TERM. No V_{CC} +5VR	QTY
L1, 2, 3, 4, 5, 6, 7, 8	1101A	377-0000	—	5	8
L9	SN74157N	376-0082	8	16	1
L10	EA40171		—	—	1
L11	EA40172		—	—	1
L12	EA40173		—	—	1
L13	EA40174		—	—	1
L14, 15, 16	SN7406N	376-0055	7	14	
L17	9321	376-0096	8	16	1





WANG LABORATORIES INC.
TEWKSBURY, MASS.

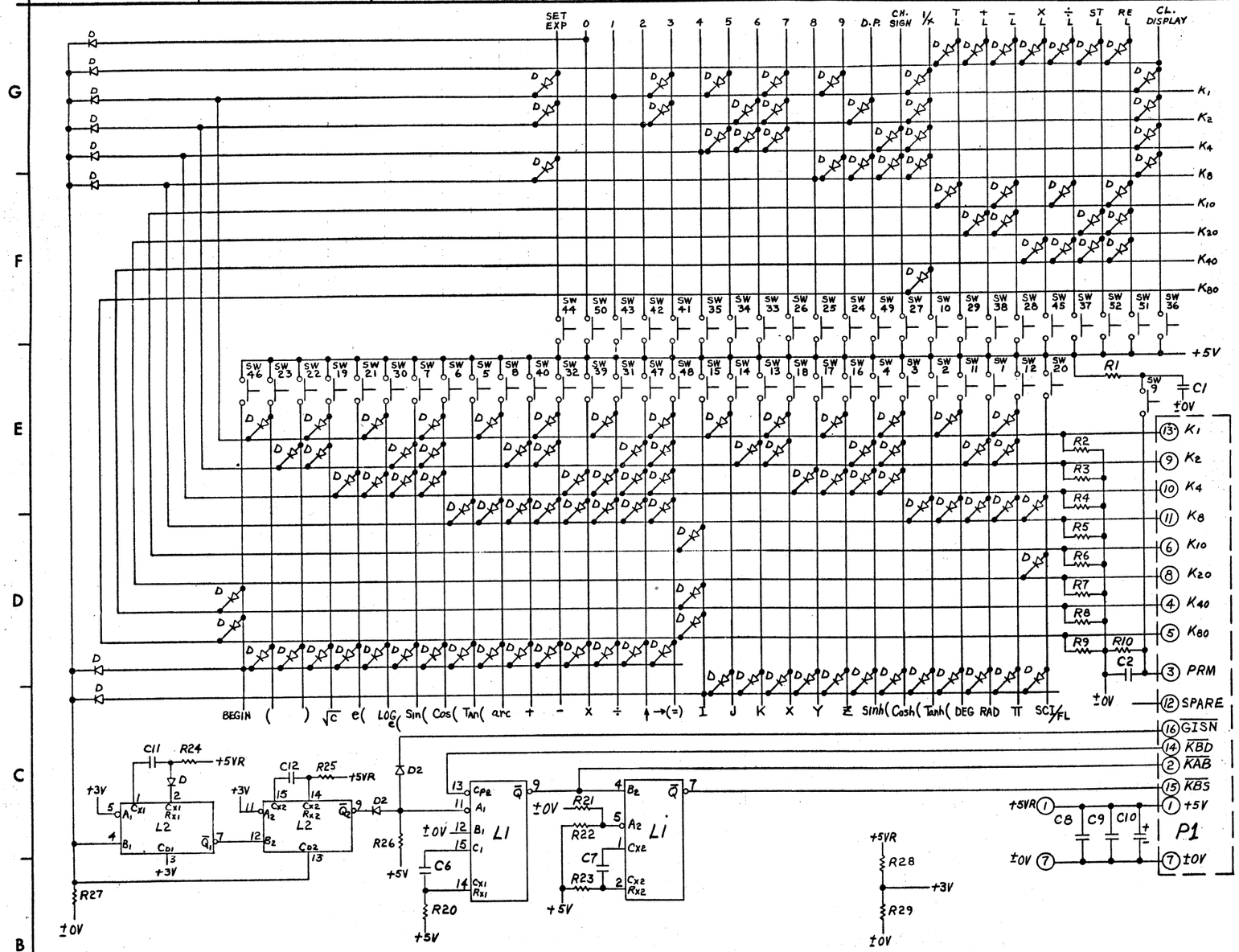
MODEL NO.	DRAWN		APP.	
400L	CHECKED		APP.	

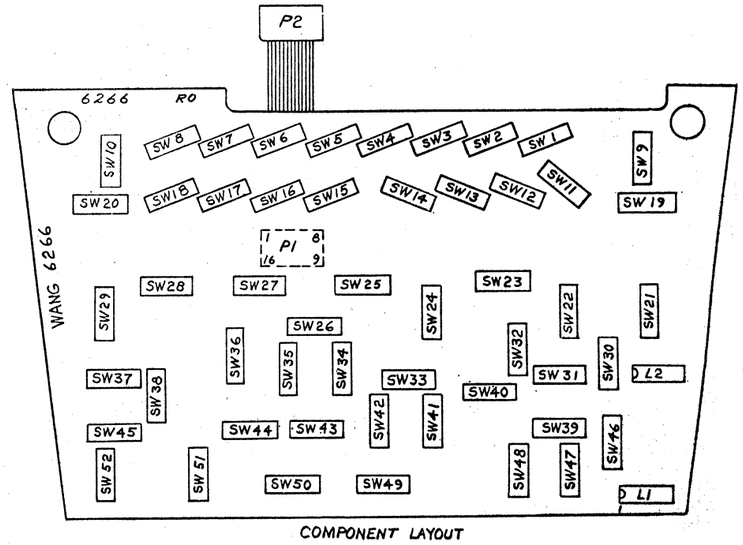
TITLE SCHEMATIC LOGIBLOC 6265 RAM / ROM

SHT OF | DWG. NO. D 6265-1 | REV.

D 6265-1

DO NOT SCALE

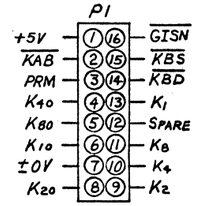




COMPONENT LAYOUT

LOCATION	TYPE	W.L. PART NO.	TERM. NO. ±0V	TERM. NO. V_{cc} +5VR	QTY.
L1,2	9602	376-0104	8	16	2

COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY.
R1	100K 1/4W	330-5010	1
R2 THRU 9, 22	2.2K 1/4W	330-3022	9
R10, 27	220Ω 1/4W	330-2022	2
R19, 21, 29	3.3K 1/4W	330-3033	3
R24, 25	33K 1/4W	330-4033	2
R 20, 23	10K 1/4W	330-4010	2
R26	4.7K 1/4W	330-3047	1
R28	1.2K 1/4W	330-3012	1
C1	.01μf CER.	300-1903	1
C2	.002μf CER.	300-1913	1
C11	2.2μf TANT.	300-4014	1
C6	220pf CER.	300-1220	1
C7	82 pf CER.	300-1082	1
C8,9	.05μf CER.	300-1900	2
C10	15μf, 20V TANT.	300-4022	1
C12	.001μf CER.	300-1906	1
D	DIODE SIL.	380-1001	141
D2	DIODE GER.	380-0000	2
SW 1 THRU 52	11SM804	325-2300	52
P1	CABLE ASS'Y	420-2000	1



REV	BY	DATE	REVISION
1	AK	12-8-72	REVISED PER ECN 3919 APP'D: T.M.

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	CHECKED	APP.
400L	AK 11-27-72		APP. 11/28/72

TITLE: SCHEMATIC LOGIBLOC 6266 ALGEBRAIC KEYBOARD (C72)

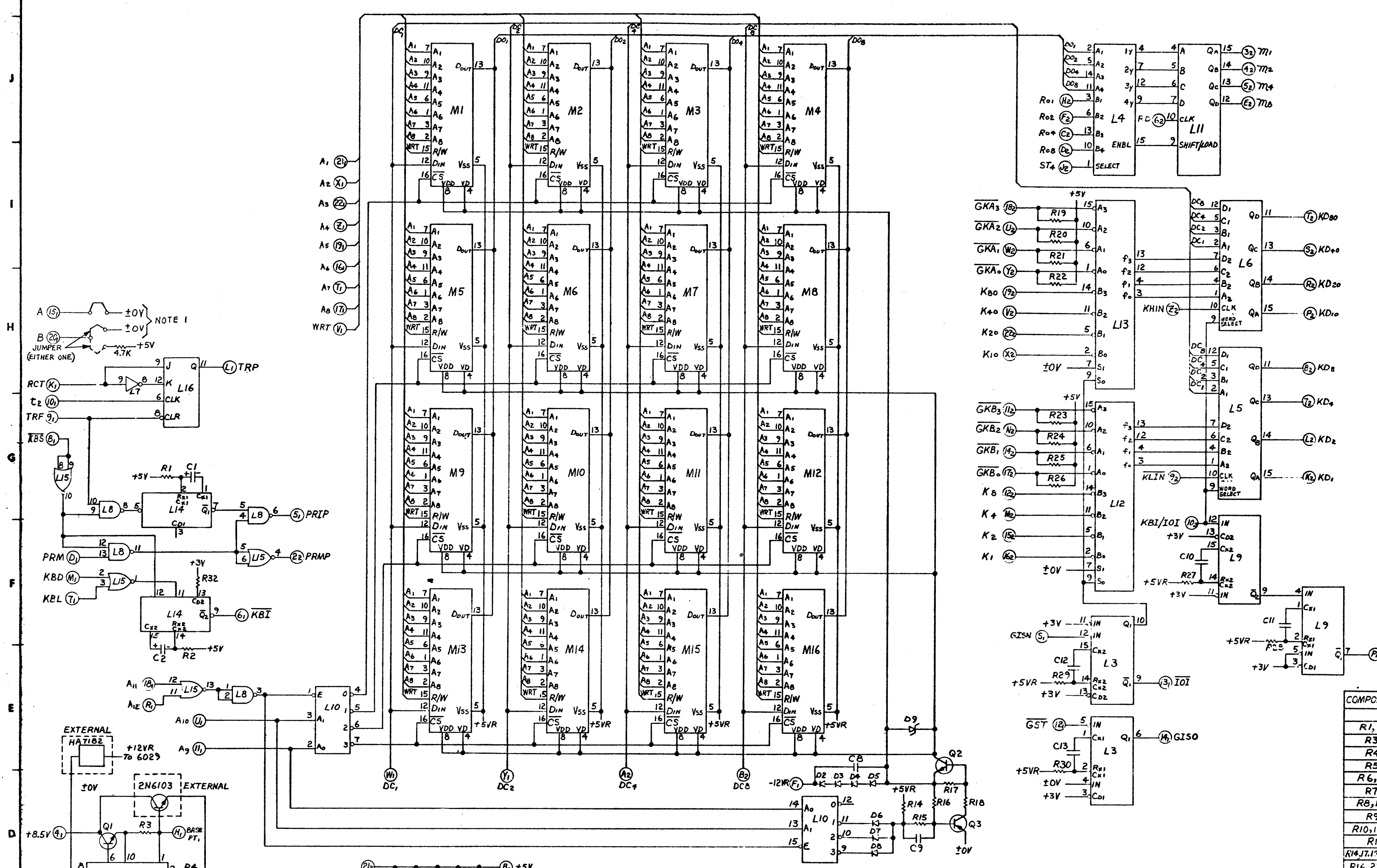
SHT OF | DWG. NO. D 6266-1 | REV. 1

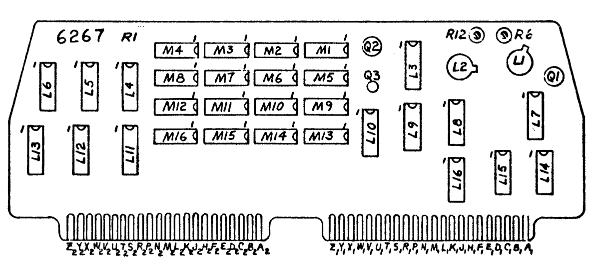
D 1-9929

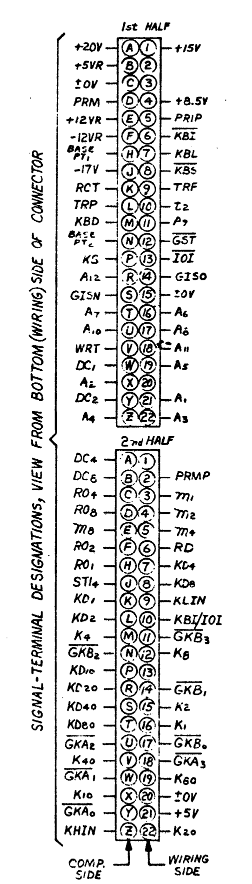
DO NOT SCALE

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		







COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY.
R1,2	33K 1/4W	330-4033	2
R3	2.2Ω 1/2W	331-0022	1
R4	1.5K 1/4W	330-3015	1
R5	560Ω 1/4W	330-2056	1
R6,12	1K POT	336-1001	2
R7	2.2K 1/4W	330-3022	1
R8,18	470Ω 1/4W	330-2047	2
R9	2.7K 1/4W	330-3027	1
R10,11,15	3.3K 1/4W	330-3033	3
R13	820Ω 1/4W	330-2082	1
R14,17,19-26,32	1K 1/4W	330-3010	11
R16,27,28	10K 1/4W	330-4010	3
R29,30	33K 1/4W	330-4033	2
R31	10K 1/2W	331-4010	1
C1	2.2μf TANT.	300-4014	1
C2,12	470pf	300-1470	2
C3,9,13	.0014f	300-1906	3
C4	.0056μf	300-1915	1
C5,6	.01μf	300-1903	2
C7,8,14,18	15μf,20V TANT	300-4022	4
C10	220pf	300-1220	1
C11	82pf	300-1082	1
C15,16,17	.05μf	300-1900	3
D1	1N753A 6.2V	380-2062	1
D2,3,4,5	EM403	380-4000	4
D6,7,8	SIL DIODE	380-1001	3
D9	1N4733A 5.1V	380-2052	1
Q1,2	2N5189	375-1021	2
Q3	GT 545	375-1019	1

LOCATION	TYPE	W.L. PART NO.	TERM. NO. Vcc +5VR	TERM. NO. ±0V	QTY.
L1,2	723C	376-0066			2
L3,9,14	9602	376-0104	16	8	3
L4	93L22	376-0142	16	8	1
L5,6	SN74L98	376-0101	16	8	2
L7	SN7404N	376-0029	14	7	1
L8	SN7400N	376-0002	14	7	1
L10	9321	376-0096	16	8	1
L11	93L00	376-0140	16	8	1
L12,13	8266	376-0041	16	8	2
L15	SN7402N	376-0016	14	7	1
L16	SN7476N	376-0007	5	13	1
M1 THRU M16	1101-A	377-0000			16

1. WHEN 8 SKTS. ARE USED ON 1101-A, USE SOLID LINE JUMPER; WHEN 16 SKTS. ARE USED ON 1101-A, USE DASH LINE JUMPER.

NOTES

REVISION	LTR	DATE	APP'D
1 REVISED PER ECN3275	GK	11-4-72	J. Wang
2 REVISED PER ECN3649	SK	6-12-73	J. Wang
3 CHANGED PER RFA0194	BK	6-27-73	
4 REVISED PER ECN3716	BK	7-24-73	J. Wang

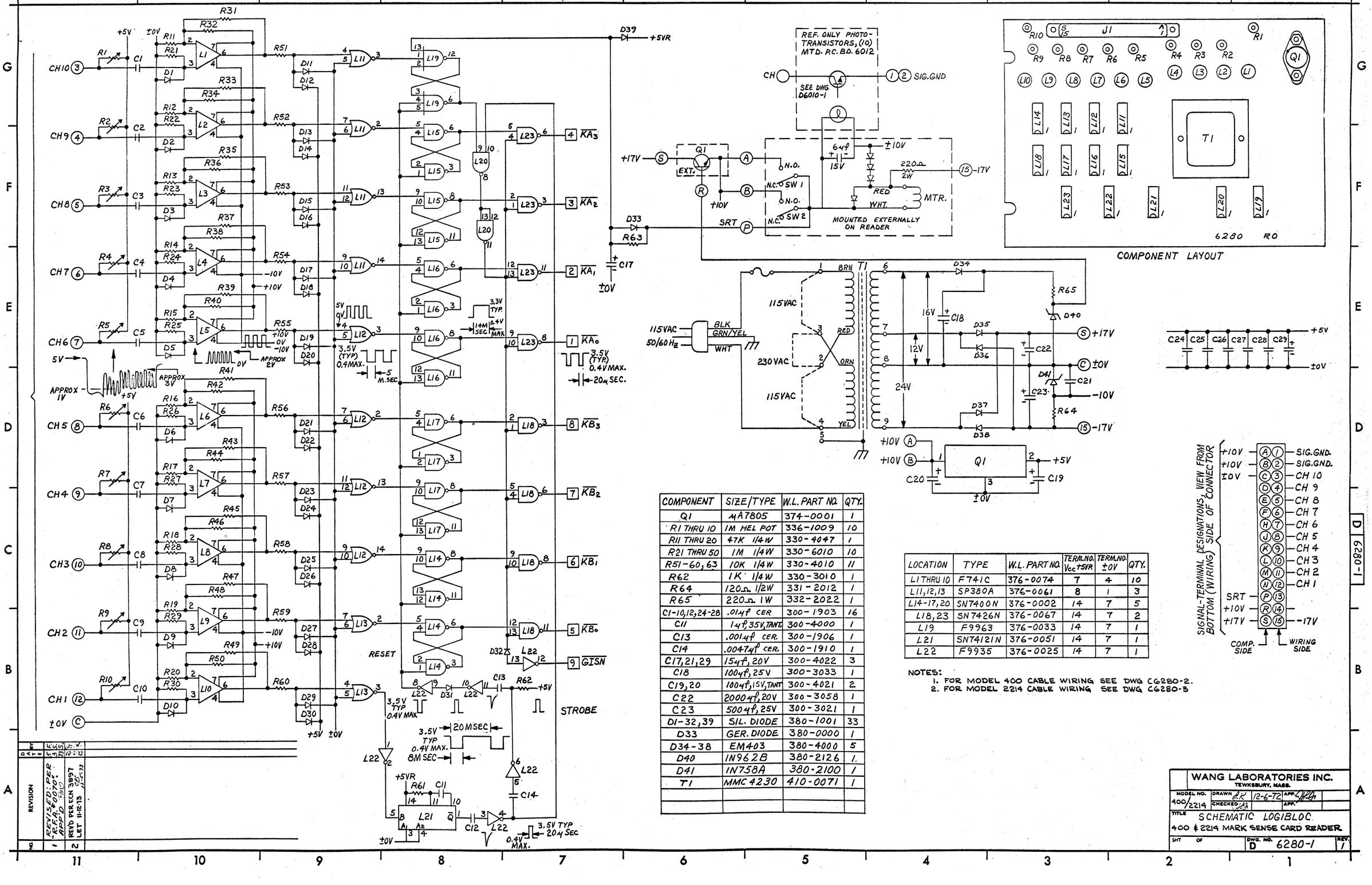
WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.

WANG PART NO	ITEM	QTY	NAME	
MATERIAL		MODEL NO. 400	DWN GK 12-29-72	E ENGR
FINISH		SEE ENGRG SPECIFICATIONS No.	CHK	M ENGR
		TOL EX AS NOTED XX ± .010 FRAC ± 1/64 .XXX ± .005 ANG ± 1°30' FINISH	E C CONTROL	MFG ENGR

TITLE SCHEMATIC LOGIBLOC #6267 MEMORY BOARD

SIZE	DRAWING NUMBER	REV
E	6267-1	4

E 6267-1



COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY.
Q1	μA7805	374-0001	1
R1 THRU 10	1M HEL POT	336-1009	10
R11 THRU 20	47K 1/4W	330-4047	1
R21 THRU 50	1M 1/4W	330-6010	10
R51-60, 63	10K 1/4W	330-4010	11
R62	1K 1/4W	330-3010	1
R64	120Ω 1/2W	331-2012	1
R65	220Ω 1W	332-2022	1
C1-10, 12, 24-28	.01μF CER	300-1903	16
C11	1μF, 35V, TANT.	300-4000	1
C13	.001μF CER.	300-1906	1
C14	.0047μF CER.	300-1910	1
C17, 21, 29	15μF, 20V	300-4022	3
C18	100μF, 25V	300-3033	1
C19, 20	100μF, 15V, TANT	300-4021	2
C22	2000μF, 20V	300-3058	1
C23	500μF, 25V	300-3021	1
D1-32, 39	SIL. DIODE	380-1001	33
D33	GER. DIODE	380-0000	1
D34-38	EM403	380-4000	5
D40	IN962B	380-2126	1.
D41	IN758A	380-2100	1
T1	MMC 4230	410-0071	1

LOCATION	TYPE	W.L. PART NO.	TERM.NO. Vcc +5VR	TERM.NO. ±0V	QTY.
L1 THRU 10	F741C	376-0074	7	4	10
L11, 12, 13	SP380A	376-0061	8	1	3
L14-17, 20	SN7400N	376-0002	14	7	5
L18, 23	SN7426N	376-0067	14	7	2
L19	F9963	376-0033	14	7	1
L21	SN74121N	376-0051	14	7	1
L22	F9935	376-0025	14	7	1

NOTES:
1. FOR MODEL 400 CABLE WIRING SEE DWG C6280-2.
2. FOR MODEL 2214 CABLE WIRING SEE DWG C6280-3

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

+10V	A 1	SIG.GND.
+10V	B 2	SIG.GND.
±0V	C 3	CH 10
	D 4	CH 9
	E 5	CH 8
	F 6	CH 7
	H 7	CH 6
	J 8	CH 5
	K 9	CH 4
	L 10	CH 3
	M 11	CH 2
	N 12	CH 1
SRT	P 13	
+10V	R 14	
+17V	S 15	-17V

COMP. SIDE — WIRING SIDE

NO.	REVISION	DATE	BY
1	REVISED: PER E.C.A. #2070 APPD.	5/3/73	R.S.
2	REVD PER ECN 3897 LET 11-12-13	12-2-13	R.K.

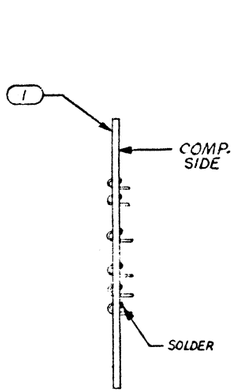
WANG LABORATORIES INC.
TEWKSBURY, MASS.

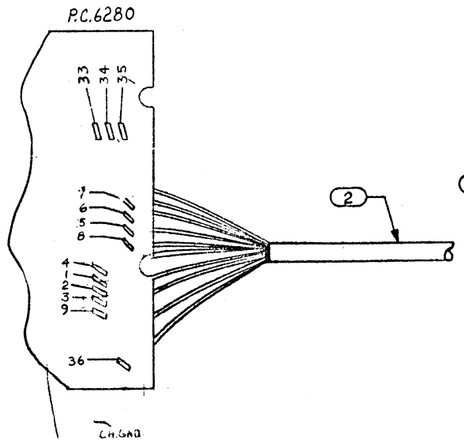
MODEL NO. 400/2214	DRAWN AR	12-6-72	APP.		
	CHECKED		APP.		

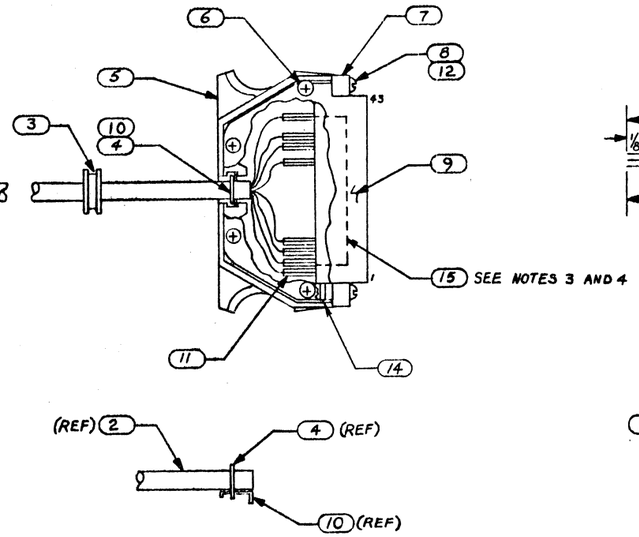
TITLE SCHEMATIC LOGIBLOC
400 & 2214 MARK SENSE CARD READER

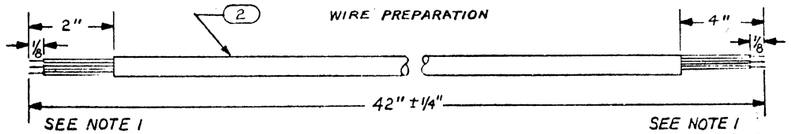
SHT OF | DWG. NO. D 6280-1 | REV. 1

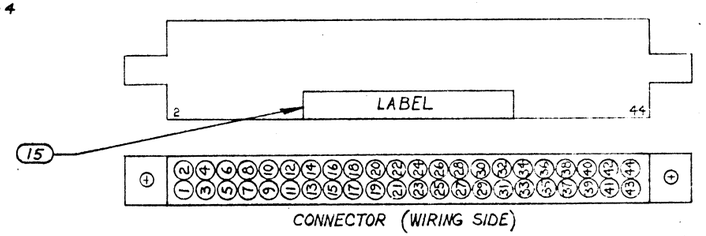
D 6280-1

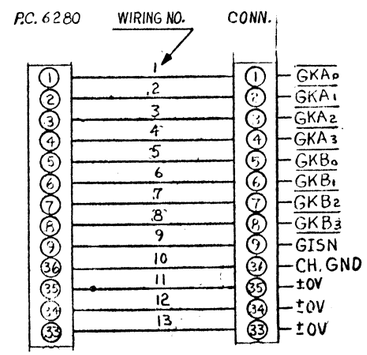












	615-1185	15	2	LABEL		DWG. B-6140-99
⚠2	652-2002	14	12	NUT, SQUARE		#4-40
	660-0202	13	A/R	SOLDER		63-37 ALLOY
	653-2002	12	2	WASHER LOCK		#4 INT. TOOTH
	605-0006	11	20	SLEEVE		#12TBG 5/8" LONG
⚠1	654-1235	10	1	ANTI-ROTATION CLIP		
	350-4220	9	1	COVER, CONN. SHELL		DWG. B-6140-123
	650-2160	8	2	SCREW PAN HEAD MS		#4-40 x 1/2"
	350-0027S	7	1	CONNECTOR (44 PIN)		261-10022-2
⚠	651-0009	6	4	SCREW FLAT HEAD		#4 x 3/8 SELF TAPPING
	350-4218	5	1	CONN. SHELL		DWG. D-6140-59
	654-1224	4	1	STRAIN RELIEF		#1 GRIPMASTER
	654-1212	3	1	GROMMET		
	420-0001	2	A/R	CABLE (15 CONDUCTOR)		15 COND. #26
⚠	210-6280	1	1	P.C. BOARD ASSY		DWG. D-6280-1
	WANG PART NO.	ITEM	QTY.	NAME	MATERIAL	DESCRIPTION

Qty. Per Unit	FIRST USED ON	ASSY USED ON
1	D6000-B	D6280-2

WANG LABORATORIES, INC. TEWKESBURY, MASS. U.S.A.

	BY	DATE	APPROVED BY	DATE
DWN.	AR	12-27	ENG.	
CHK.			QC CONTROL	
			MFG.	

MATERIAL — MODEL NO. 400 MODEL 10 — SEE ENGNG SPECIFICATIONS No.

FINISH — TOL. EX. AS NOTED .XX ± .010 FRAC ± 1/64 .XXX ± .005 ANG. ± 1°30' FINISH 125

TITLE: I/O CABLE ASSEMBLY

SCALE NONE | SHT 1 OF 1 | 220-0096 (WANG PART NUMBER) | D (SIZE) | 6280-2 (DRAWING NUMBER) | 2 (REV)

D 6280-2

4. LABEL ON INSIDE OF CONNECTOR SHELL, ITEM 5.
3. LABELS MUST FACE EACH OTHER WHEN ASSEMBLED.
2. DO NOT STRIP AND TIN UNUSED LEADS; FOLD BACK TAPE.
1. GROMMET MUST BE ON CABLE BEFORE WIRING TO P.C. BOARD.

NOTES

REVISION	BY	DATE
RFA № 0124 FOR REV. 1 REFER TO THIS RFA		5-18-73
REV. PER RFA #3/8	SAS	8-13-73

DRAWN BY AFM ECL

DO NOT SCALE

LOCATION	TYPE	W.L. PART NO.	TERM. NO. +5V	TERM. NO. GND	QTY
L1	SN7473N	376-0005	4	11	1
L2,18	SN7404N	376-0010	14	7	2
L9,22	SN7400N	376-0002	14	7	1
L4	SN74S11N	376-0012	14	7	1
L5	93L22	376-0048	16	8	1
L6,7	SN74S37N	376-0078	16	8	2
L8,9,10,11	SN74S11N	376-0047	16	8	4
L12	SN74S181N	376-0099	16	8	1
L14,15,16	9338	376-0100	16	8	3
L17	SN74S76N	376-0007	16	8	1
L19,20,21,25	93L16	376-0017	16	8	4
L23	SN74S32N	376-0008	14	7	1
L24	SN7432N	376-0033	14	7	1

COMP.	SIZE/TYPE	W.L. PART NO.	QTY
R1,2,4	1K 1/4 W	330-3010	3
R3	4.7K 1/4 W	330-3047	1
C1	.02 MF CER.	300-1904	1
C2	.05 MF CER	300-1900	1
C3, 8	15 MF 20V TANT	300-4022	2
C4,5, 6,7	.01 MF CER	300-1903	4

1ST HALF

	A 1	KD_8
+5VR	B 2	
±0V	C 3	
	D 4	KD_{80}
PRM	E 5	
KBD	F 6	$\overline{PRM}$
A_{11}	H 7	$\overline{KBD}$
$\overline{KBS}$	J 8	$\overline{RTC}$
A_{12}	K 9	KD_4
A_3	L 10	$\overline{MC}$
A_{10}	M 11	A_9
KD_{40}	N 12	DC_8
DC_4	P 13	
DC_1	R 14	ST1-3
KD_{20}	S 15	KD_2
A_6	T 16	A_2
A_8	U 17	A_7
	V 18	DC_2
CA	W 19	BA_7
KD_{10}	X 20	KD_1
A_1	Y 21	A_5
	Z 22	A_4

2ND HALF

S_3	A 1	S_2
$\overline{KAB}$	B 2	S_0
t_1	C 3	KLIN
KHIN	D 4	R_3
FNHG	E 5	FHG
R_0	F 6	$\overline{BRH}$
R_1	H 7	S_1
R_{15}	J 8	R_2
R_9	K 9	R_{12}
R_8	L 10	$\overline{R_{19}}$
R_{13}	M 11	R_{18}
R_{14}	N 12	$\overline{R_{37}}$
R_{10}	P 13	RBH
m_1	R 14	$\overline{RBH}$
AS	S 15	$\overline{QC}$
R_{16}	T 16	Q_B
m_2	U 17	Q_C
m_4	V 18	Q_D
m_8	W 19	OSC
	X 20	±0V
	Y 21	+5VR
R_{11}	Z 22	

COMP. SIDE — WIRING SIDE

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

COMPONENT LAYOUT

6282-R0

L7 L6 L5 L4 L3 L2 L1 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19 L20 L21 L22 L23 L24 L25

Z,Y,X,W,V,U,T,S,R,P,N,M,L,K,J,H,F,E,D,C,B,A$_2$

Z,Y,X,W,V,U,T,S,R,P,N,M,L,K,J,H,F,E,D,C,B,A$_1$

REVISION	BY	DATE
1	PER ECN # 3711 LS WAS 74LS1 APP:D	6-29-73
2	PER ECN #3711A L18,20,21,25 WERE SN74LS04 APP:D	7-26-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. C SERIES | DRAWN GB 1-19-73 | CHECKED | APP. | APP.

TITLE SCHEMATIC LOGIBLOC 6282 MAIN PROCESSOR

SHT OF | DWG. NO. D 6282-1 | REV. -

DO NOT SCALE

HOLE LEGEND

DRILLED OR PUNCHED HOLE TOLERANCES:	HOLE DIA.	TOL.
	.035 to .125	+.002 -.003
	.126 to .250	+.002 -.003
	.251 to .500	+.002 -.003

IDENT	DESCRIPTION	QTY.
A		

L1 L2 L3 L4 L5 L6 L7 L8 L10 L11 L12 L13 L15 L16 L17 L19 L20 L21 L22 L23 L24 L25 L26 L27 L28 L29 L30 L31

G252 OR G245

A1		
B2	-5VR	
C3	±0V	
D4		
E5	-12V	
F6		
H7	STI-3	
J8		R/W
K9		A9
L10		A10
M11	A12	A11
N12	DO8	DO1
P13		DO2
R14	DO4	RO4
S15		RO8
T16	A7	A5
U17	DC1	A8
V18	DC2	RO2
W19	DC4	RO1
X20	DC8	A6
Y21	A2	A1
Z22	A4	A3

G282 1st HALF

A1		KD8
B2	+5VR	
C3	±0V	
D4		KD10
E5	PRM	
F6	RBD	$\overline{PRM}$
H7	A11	$\overline{KBD}$
J8	$\overline{KBS}$	$\overline{RTC}$
K9	A12	KD4
L10	A3	$\overline{MC}$
M11	A10	A9
N12	KD10	DC1
P13	DC4	
R14	DC1	STI-3
S15	KD2	KD2
T16	A6	A2
U17	A8	A7
V18	RO2	DC2
W19	CA	BA7
X20	KD10	KD1
Y21	A1	A5
Z22	A5	A4

G282 2nd HALF

A1	S_3	S_2
B2	$\overline{KAB}$	S_0
C3	t_1	KLIN
D4	KHIN	R3
E5	FHG	FHG
F6	RO	$\overline{BRH}$
H7	R1	S1
J8	R15	R2
K9	R9	R12
L10	R8	R13
M11	R13	R18
N12	R14	R37
P13	R10	RBH
R14	M_1	$\overline{RBH}$
S15	AS	$\overline{QC}$
T16	R16	QB
U17	M_2	QC
V18	M_4	QD
W19	M_8	OSC
X20	±0V	±0V
Y21	+5VR	+5VR
Z22	R11	

J1

	GISM	1	
	$\overline{KBS}$	2	$\overline{KAB}$
	$\overline{KBD}$	3	PRM
GKB0/K1		4	K80/GKA2
		5	K80/GKA3
GKB3/K3		6	K20/GKA0
GKB1/K4		7	±0V
GKB2/K2		8	K20/GKA1

J2

+5VR		1	
		2	M_4
A3		3	M_2
A2		4	M_8
A1		5	M_1
		6	AS
+250V		7	±0V
		8	

COMPONENT	SIZE/TYPE	WL PART No.	QTY
XTAL OSC	4 MHz	321-0011	1
R1,2,3,4,5,6,7,8,9,50,51,52,53,54,55,56,86,87	1K ¼W	330-3010	19
R10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,80	2.7K ¼W	330-3027	21
R11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49	6.7K ¼W	330-3067	20
R57	6.7K ¼W	330-3047	1
R58,59,65,66,67,68,69,79	2.2K ¼W	330-3022	8
R60	180Ω ¼W	330-2018	1
R61	1.8K ¼W	330-3018	1
R62, 63	220Ω ½W	330-2022	2
R70	2.2K ½W	331-3022	1
R71	1.5K ½W	330-3015	1
R72	560Ω ½W	330-2056	1
R73, 83	1K HELI POT	336-1001	2
R75, 76, 77	10K ½W	331-4010	3
R78	270Ω ½W	331-2027	1
R79	470Ω ½W	330-2047	1
R81, 82	3.3K ½W	330-3033	2
R84	820Ω ½W	330-2082	1
C1	.001 MF CER	300-1905	1
C2	.0056 MFCER	300-1915	1
C3	1 MF 20V	300-3045	1
C4	3 MF 20V	300-3018	1
C8	30 MF 350VDC		
C5	.02 MF 25V	300-1904	1
C6	2 MF 20V	300-3028	1
C7, 12	15 MF 20V	300-4022	2
C9, 10	.01 MF CER	300-1903	2
C11	47 PF CER	300-1047	1
C13, 14, 15, 16, 17, 18	.05 MF CER	300-1900	6
Q1	2N5189	375-1021	1
D	DIODE SIL	380-1001	25
D2, 3	DIODE GER	380-0000	2
D4, 5	GE A15R	380-3004	2
D6, 7, 8, 9, 10	EM 403	380-4000	5
DH	ZENER 6.5V	380-2062	1
T1	MMC-9328-S	610-0078	1
FIL	LINE FILTER	610-2002	1
F1	1 AMP 115V	360-1010 SB	1
	1/2 AMP 250V	360-1005 SB	1
CONNECTOR	44 PIN	350-0021 M	3
J1, J2	16 PIN	376-9005	2
SOCKET	24 PIN	376-9003	8

LOCATION	TYPE	WL PART No.	TERM. No. I.C.	TERM. No. +5VR	QTY
L1	EA9013 0	377-0030	–	–	1
L2	EA9013 2	377-0032	–	–	1
L3	EA90134	377-0034	–	–	1
L6	EA90135	377-0035	–	–	1
L7	EA90133	377-0033	–	–	1
L8	EA90131	377-0031	–	–	1
L24	SN7900W	376-0002	7	14	1
L10, 25, 26	9321	376-0096	8	16	3
R9, 15, 12	SN7906W	376-0053	7	14	3
L13, 19, 21	93 L16	376-9197	8	16	3
L16, 17, 27	SN74198	376-0101	8	16	3
L22	SN7902W	376-0016	7	14	1
L18, 20, 23	SN7904W	376-0010	7	14	5
L28	SN7908W	376-0081	7	14	1
L29	9935	376-0023	7	14	1
L30, 31	723	376-0066	–	–	2

REVISION	BY	DATE	APPROVED
0 <- 1	GD	6-27-73	JT
1	GD	11-19-73	JT
2	GD	1-8-74	JT

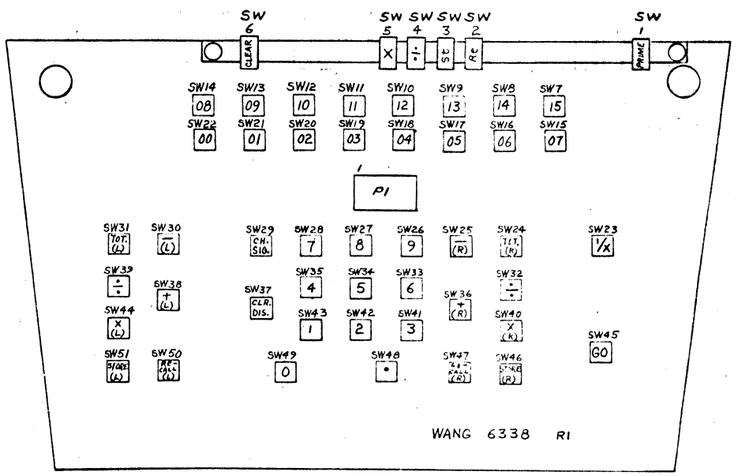
WANG PART NO.	ITEM	QTY.	NAME	MATERIAL	DESCRIPTION
Qty. Per FIRST USED ON	ASSY USED ON		WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.		BY GD DATE 6/1/73 APPROVED BY JT DATE 1-8-74
			MATERIAL	MODEL NO. C SERIES	DWN GD CHK E ENGR JT M ENGR E C CONTROL MFG ENGR
			FINISH	SEE ENGRG SPECIFICATIONS No.	TITLE SCHEMATIC LOGIBLOC 6283 POWER SUPPLY & MOTHER BOARD
				TOL. EX. AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°-30' FINISH	SCALE SHT OF WANG PART NUMBER E 6283-1 SIZE DRAWING NUMBER 3. REV.

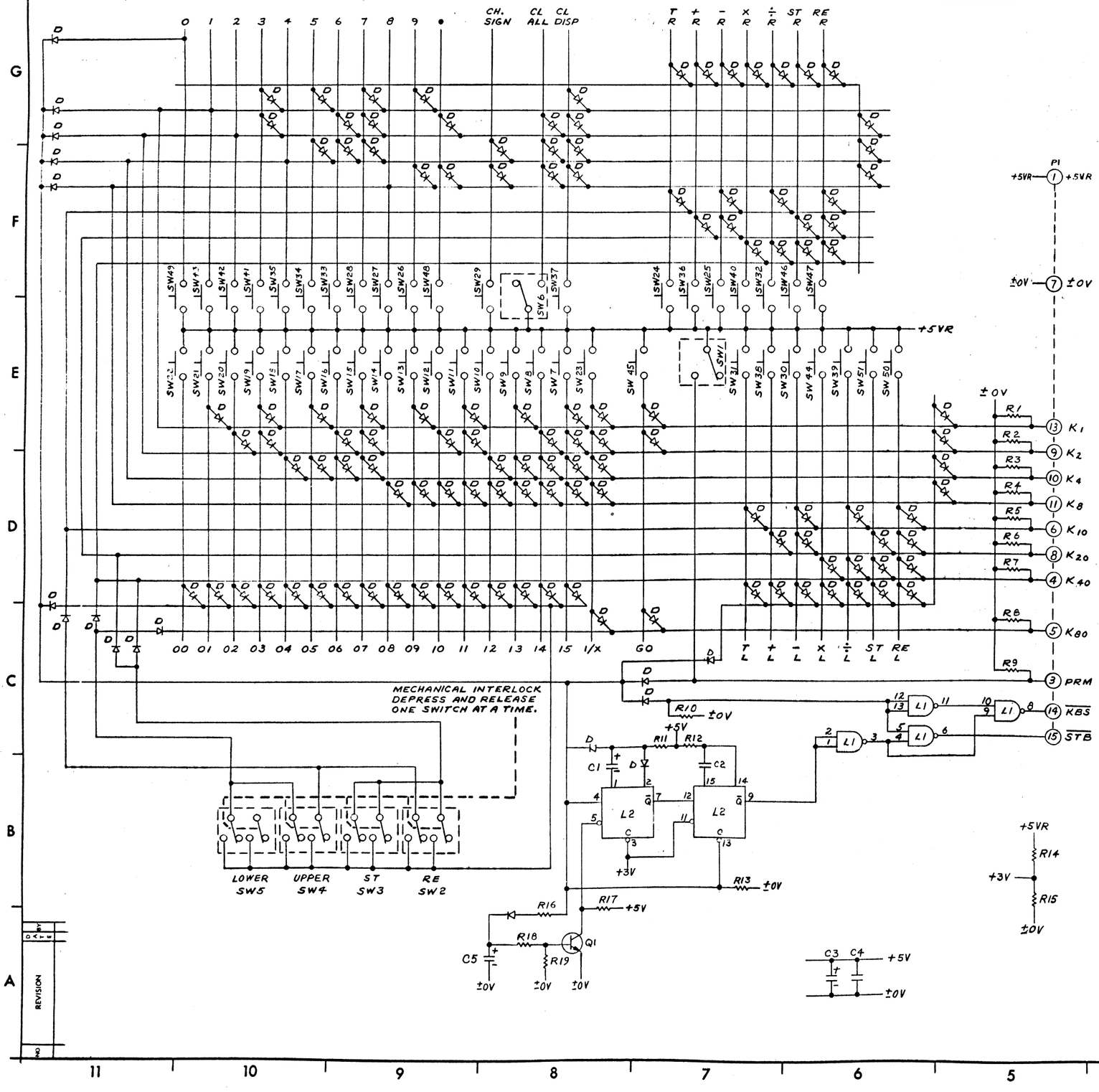
E 6283-1

I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1	SN7400N	376-0002	7	14	1
L2	F9602	376-0104	8	16	1

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1,2,3,4,5,6,7, 8,9,10	470Ω 1/4W	330-2047	10
R11,12	33K 1/4W	330-4033	2
R13,16	220Ω 1/4W	330-2022	2
R14	1.2K 1/4W	330-3012	1
R15	3.3K 1/4W	330-3033	1
R17	4.7K 1/4W	330-3047	1
R18	8.2K 1/4W	330-3082	1
C1	5.6mf 35V TANT.	300-4017	1
C2	.01mf 25V	300-1903	1
C3	.001mf 200V	300-1906	1
C4	.0056 200V	300-1915	1
C5	3.3mf 15V TANT	300-4016	1
D	30V SIL	380-1001	155
R19	12K 1/4W	330-4012	1
Q1	CORE DRIVER SIL TSTR	375-1005	1
J1	16 PIN SKT. BLK	376-9002	1
SW1 THRU 6	PUSH BUT. SW	325-2214	1
SW7 THRU 22	OAK SW. SPST 7/16"	325-2405	16
SW23 THRU 51	OAK SW SPST 1/2"	325-2408	29

COMPONENT LAYOUT 6338 R1





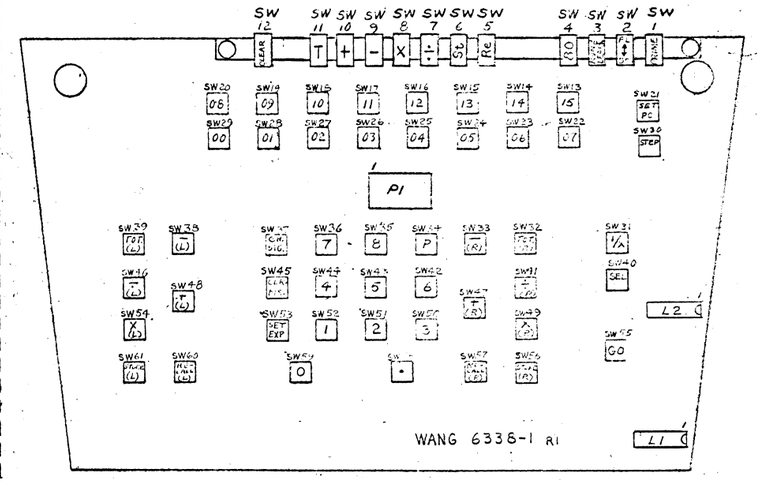
REVISION	BY

WANG LABORATORIES INC. TEWKSBURY, MASS.			
MODEL NO.	DRAWN EK 8-23-73	APP.	
	CHECKED	APP.	
TITLE	SCHEMATIC LOGIBLOC #6338 MOD. 85 KEYBOARD		
SHT 1 OF 1	DWG. NO. D 6338-1		REV.

I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1	SN7400N	376-0002	7	14	1
L2	F9602	376-0104	8	16	1

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1,2,3,4,5,6,7, 8,9,10,11,12,13	470Ω ¼W	330-2047	13
R14,15	33K ¼W	330-4010	2
R16,20	220Ω ¼W	330-3033	2
R17	12K ¼W	330-4012	1
R18	8.2K ¼W	330-3082	1
R19	4.7K ¼W	330-3047	1
R21	1.2K ¼W	330-3012	1
C1	.68μf 35V TANT.	300-4011	1
C2	.001μf 200V	300-1906	1
C3	15μf 20V TANT.	300-4022	1
C4	.01μf 25V	300-1903	1
C5	3.3μf 15V	300-4016	1
D	30V SIL	380-1001	155
P1	16PIN 6" CABLE ASSY.	420-2000	1
	TRANSIPAD (SMALL)	375-9004	1
Q1	CORE DRIVER TSTR	375-1005	1
SW13-2022-29	OAK SW. SPST 7/16"	325-2413	16
SW1 THRU 12	PUSH BUT. SW	325-2219	1
SW21, 30-61	OAK SW. SPST ½"	325-2405	32
R22	3.3K ¼W	330-3033	1

COMPONENT LAYOUT 6338-1 R1



MECHANICAL INTERLOCK. DEPRESS AND RELEASE ONE SWITCH AT A TIME.

REVISION	BY	DATE

WANG LABORATORIES INC.
TEWKSBURY, MASS.

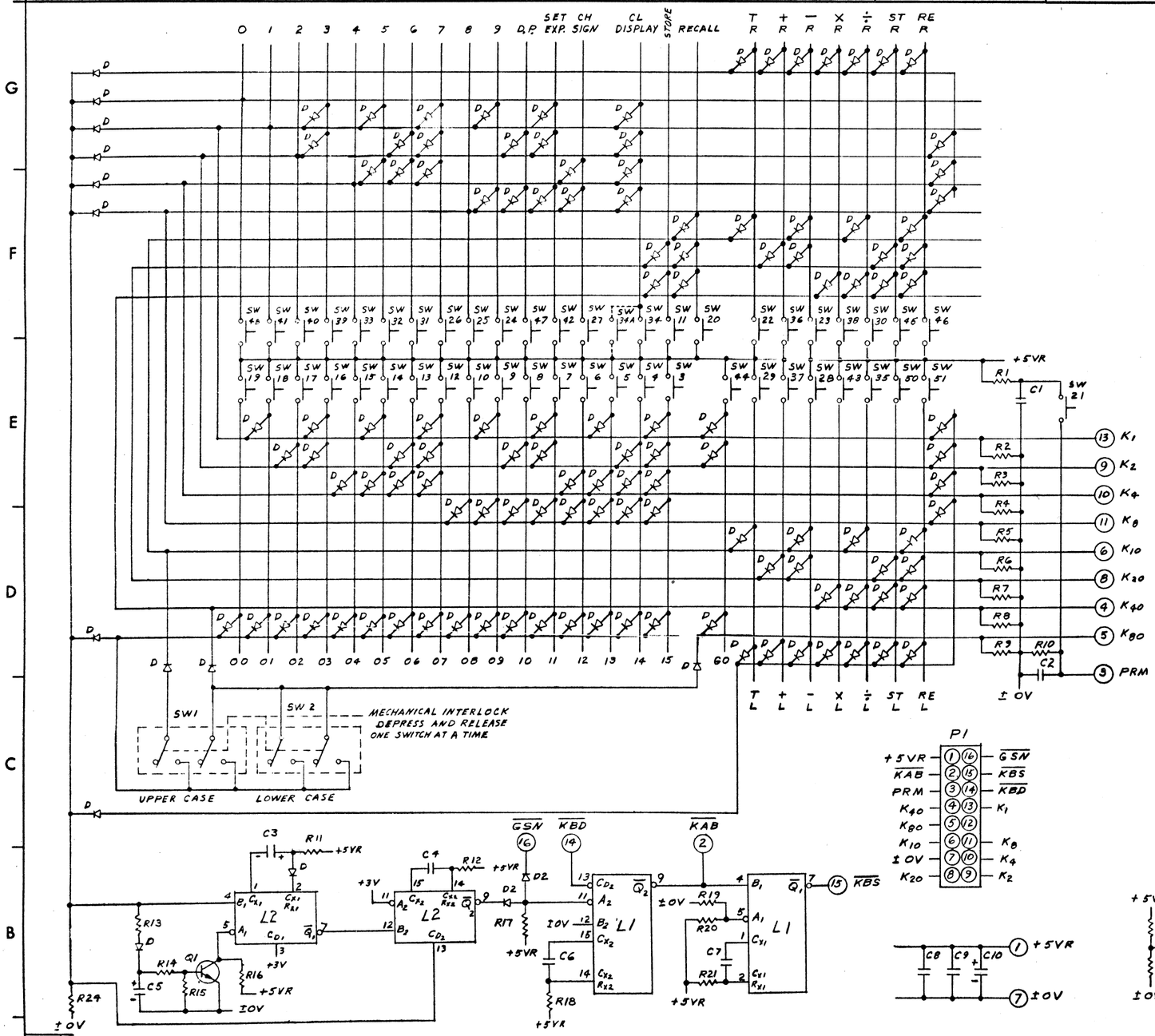
MODEL NO.	DRAWN	8-22-73	APP.
	CHECKED		APP.

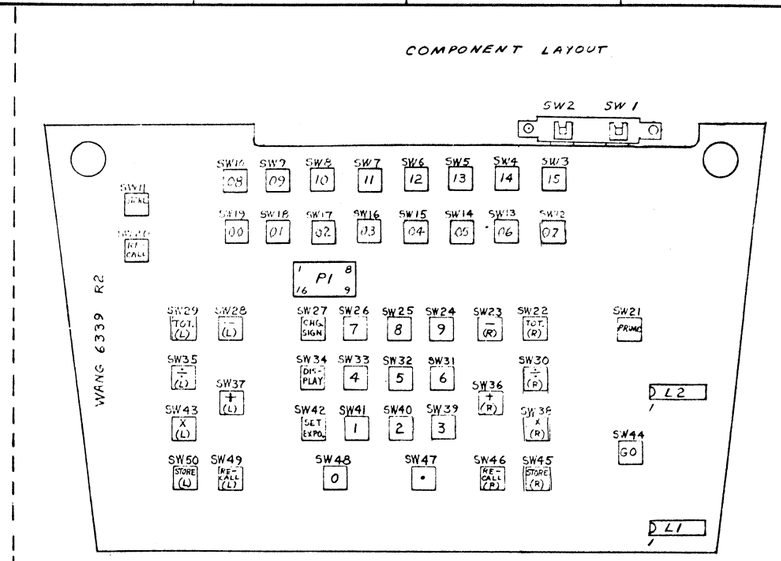
TITLE: SCHEMATIC LOGIBLOC #6338-1
MOD. 450, 452, 453 KEYBOARD

SHT 1 OF 1 | DWG. NO. 6338-2 | REV.

D 6338-2

DO NOT SCALE





LOCATION	TYPE	W.L. PART No.	TERM. No. 0V	TERM. No. Vcc +5VR	QTY
L1, 2	9602	376-0104	8	16	2

COMPONENT	SIZE/TYPE	W. L. PART NO.	QTY
R1	100K 1/4W	330-5010	1
R2,3,4,5,6,7, 8,9,22	2.2K 1/4W	330-3022	9
R10,24,13	220Ω 1/4W	330-2022	2
R19,23	3.3K 1/4W	330-3033	2
R11,12	33K 1/4W	330-4033	2
R18,21	10K 1/4W	330-4010	2
R16,17	4.7K 1/4W	330-3047	2
R22	1.2K 1/4W	330-3012	1
C1	.01MF CER.	300-1903	1
C2	.002MF CER	300-1913	1
C3	.68MF TANT.	300-4011	1
C6	220 PF CER.	300-1220	1
C7	82 PF CER	300-1082	1
C8, 9	.05MF CER	300-1900	2
C10	15MF 20V TANT	300-4022	1
C4	.001MF CER	300-1906	1
D	DIODE SIL	380-1001	136
D2	DIODE GER.	380-0000	1
P1	CABLE ASS'Y	420-2000	1
SW1,2	PUSH BUTTON	325-2220	2
SW3-10,12-19	OAK SW. SPST 1/2"	325-2405	16
SW11, 20-50	OAK SW. SPST 7/16"	325-2413	31
R14	8.2K 1/4W	330-3082	1
R15	12K 1/4W	330-4012	1
C5	3.3MF 15V TANT	300-4016	1
Q1	TRST. SIL	375-1005	1
TRANSIPAD	SMALL	375-9004	1

NOTE
1. P.C. BOARD WITH 3 TRANSISTORS, SEE DWG. D-6246-1

REVISION	BY	DATE

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	CHECKED	APP.	APP.	DATE
400L	AK		8-24-73		8-21-73

TITLE: SCHEMATIC LOGIBLOC # 6339
KEYBOARD

SHT OF | DWG. NO. D 6339-1 | REV.

D 6339-1