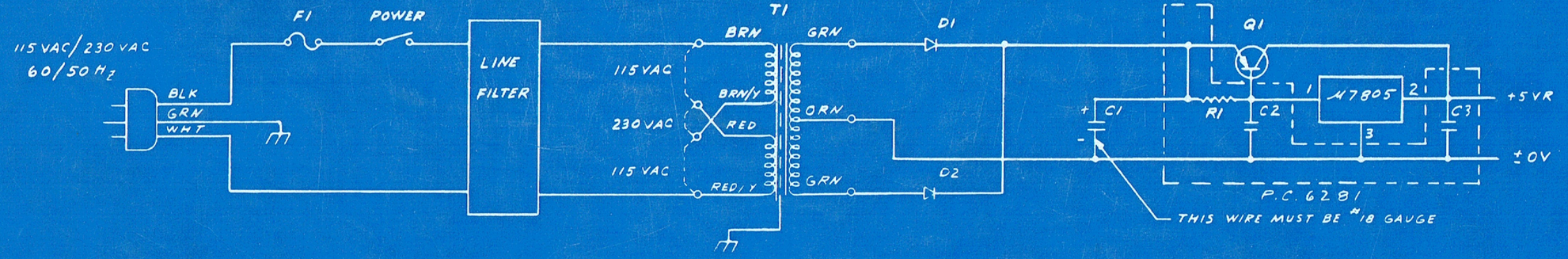
PRODUCT SERVICE

SCHEMATIC MANUAL



REFERENCE INFORMATION ONLY

NOT CONTROLLED

WANG LABORATORIES, INC.
ONE INDUSTRIAL AVENUE, LOWELL, MASSACHUSETTS 01851, TEL. (617) 851-4111, TWX 710 343-6769, TELEX 94-7421

Printed in U.S.A.

PRODUCT SERVICE

SCHEMATIC MANUAL

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

03-0019
SCHEMATIC MANUAL

May, 1977

SCHEMATIC MANUAL REPRINT

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.

Printed in U.S.A.

PERIPHERALS

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

TITLE	DRAWING #	SHEETS	PERIPHERAL
335	C6046	1	608/708
341	C5991-1	1	630/730/2230
343	C6188-1	1	609/709/629/729
347	D6473	1	641/741/2241
348	C6474	1	641/741/2241
350	C6490-1	1	633/733
351	C6467-1	1	2203
352	C6496	1	640/740/2240/2242/43
L506	See 6035 PC	1	602/702/2202
L507	See 6035 PC	1	602/702/2202
L507-1	See 6035-1 PC	1	602/702/2202
L509	D6109	1	703
L510	D6110	1	703
L511	D6111	1	703
L514	C6144-1	1	611/711
L515	D6145-1	1	611/711
L516	D6146-1	1	611/711
L517	D6147-1	1	611/711
L518	D6148-1	1	611/711
L519	D6149-1	1	711
L523	D6189-1	1	611
L532	See 6035-1 PC	1	602/702/2202
L534	D6196-1	1	609/709
L535	D6186-1	1	609/709/629/729
L536	D6180-1	1	609/709
L537	D6190-1	1	609/709/629/729
L538	D6198-1	1	609/709
L539	D6191	1	603/703
L540	D6199-1	1	609/709/629/729
L541	D6009-1	1	609/709
L542	D6401-1	1	609/709/629/729
L545	D6407	1	2203
L546	D6408	1	603
L556	D6421-1	1	628
L557	C6427-1	1	628
F560-1	C6040-1	1	603/703
L560	D6434-1	1	629/729
L561	D6431-1	1	629/729
L562	D6435-1	1	629/729
L563	D6432-1	1	629/729
L564	D6433	1	629/729
L565	D6436-1	1	632/732/2232
L574	C6484	1	633/733
L575	D6486-1	1	733
L576	D6487-1	1	633/733
L577	D6488-1	1	633/733

TITLE	DRAWING #	SHEETS	PERIPHERAL
L578	D6489-1	1	633
850	D6450-1	2	710
851	D6451-1	1	710
853	D6453-1	2	710
854	D6454-1	2	710
855	D6455-1	2	710
856	D6456-1	1	710
857	D6457-1	1	710
858	D6458-1	1	710
861	D6461-1	1	710
862	D6462-1	1	710
863	D6463-1	1	710
864	D6464-1	1	710
868	D6468-1	1	710
869	D6469-1	1	710
871	D6471-1	1	710
5971	D5971-1	1	618/718
5972	E5972-1	1	618/718
5973	D5973-1	1	618/718
5974	D5974-1	1	618/718
5977	C5977-1	1	604/704
5978	D5978-1	2	604/704
5992	C5992-1	1	607/707
5993	D5993-1	1	707
5994	E5994-1	1	707
5995	D5995-1	1	607/707
6021	D6021-1	1	611/711
6035	E6033	1	602/702/2202
6035-1	E6033-1	1	602/702/2202
6053	D6053	1	601/701/2201
6117	D6117-1	1	705
6125	D6125-1	2	514
6127	D6127-1	2	714
6127-1	D6127-2	2	614
6134	A6134-1	1	602/702/2202
6175	D6175-1	1	609/709/629/729
6216	E6216	1	608/708
6233	D6233-1	1	USER ROM
6234	D6234-1	1	621/721
6235	6235-1	8	609/709
6243	D6243-1	1	705
6243	D6243-2	1	605
6247	D6247-1	1	USER ROM
6248	E6248-1	1	612/712/2212
6249	E6249-1	1	612/712/2212
6250	D6250-1	1	612/712/2212
6251	D6251-1	2	622/722
6255	E6255-1	1	607/707
6257	D6257-1	1	623/723
6258	E6258-1	1	623/723
6268	D6268-1	2	USER ROM
6272	D6272-1	1	711
6273	D6273-1	1	611
6276	E6276-1	1	624/724
6280	D6280-1	1	2214
6281	C6281-1	1	623/723/624/624

TITLE	DRAWING #	SHEETS	PERIPHERAL
6284	C6284-1	1	603/703
6286	D6286-1	1	607/707
6287	D6287-1	1	628
6288	D6288-1	1	612/712/2212
6289	D6289-1	1	632/732/2232
6290	A6290-1	1	632/732/2232
6294	6294	2	629/729
6295	D6295-1	1	630/730/2230
6296	D6296-1	1	ALL 30's & 40's/2242/43
6297	D6297-1	1	-30
6297-1	D6297-10	1	ALL 30's/640/2240/42/43
6297-2	D6297-11	1	740
6298	E6298-1	1	ALL 30's & 40's/2242/43
6299	E6299-1	1	630/730/2230
6331	D6331-1	1	641/741/2241
6332	D6332-1	1	641/741/2241
6333	D6333-1	1	641/741/2241
6334	D6334-1	1	641/741/2241
6335	D6335-1	1	641/741/2241
6336	D6336-1	1	632/732/2232
6337	D6337-1	1	632/732/2232
6343	D6343-1	1	627/727
6344	D6344-1	1	627/727
6345	D6345-1	1	627/727
6346	D6346-1	1	627/727
6349	D6349-1	1	630/730/2230
6360 TESTER	B6360-1	1	621/721/2221
6363	D6363-1	1	632/732/2232
6366	D6366-1	1	633/733
6369	A6369	1	ALL 30's & 40's/2242/43
6390	D6390	1	640/740/2240/2242
6391	D6391-1	1	640/740/2240/2242
6392	C6392-1	1	640/740/2240/2242
6395	E6395	1	640/740/2240/2242
6398	E6398	1	630/730/2230
6398-1	E6398-1	1	2260
6399	E6399-1	1	ALL 40's/2242/43
6448	C6448	1	TD24
6537	E6537-1	1	2243
6538	D6538-1	1	2243
6539	D6539-1	1	2243
6542	E6542-1	1	2224
6544	D6544-1	1	2224
6545	D6545-1	1	2224
6558	C6558	1	TD24
6568	E COMPOSITE	1/4	MODEL 72 PRINTER
6573	E COMPOSITE	1/4	MODEL 72 PRINTER
6574	E COMPOSITE	1/4	MODEL 72 PRINTER
6575	E COMPOSITE	1/4	MODEL 72 PRINTER
6576	E6576	1	MODEL 72 PRINTER
6577	E6577	1	MODEL 72 PRINTER
6578	E6578	1	MODEL 72 PRINTER
6579	D6579	1	MODEL 72 PRINTER

TITLE	DRAWING #	SHEETS	PERIPHERAL
6590	D6590	1	612/712/2212
6594	E6594	1	2209
6595	D6595	1	2209
6596	E6596	1	2209
6597	D6597	1	2260
6598	E6598	1	2209
6599	D6599	1	2209
6704	C6704	1	MODEL 72 PRINTER
6718	E6718	3	WCS/2270
6728	E6728	1	MODEL 72 PRINTER
6734	C6734	1	MODEL 72 PRINTER
6772	D6772	1	MODEL 72 PRINTER
7012	D7012	1	MODEL 72 PRINTER
7018	E7018	3	WCS/2270
7028	E7028	1	MODEL 72 PRINTER
7076	E7076	1	MODEL 72 PRINTER
-01 PWR SUPPLY	D6066	1	601/701/2201
-01 CABLE	C6080	1	-01/-02/-11
-11 P2 CABLE	C6021-2	1	611/711
-11 P5 CABLE & PWR SUPPLY	D5776-558	2	-11
-11 I/O CABLE	C6021-4	1	611/711
2214 CABLE	C6280-3	1	2214
-21 I/O CABLE	C6465	1	621/721
-22 I/O CABLE	C5776-2042	1	622/722
-24 I/O CABLE	C6276-2	1	624/724
2221 CABLE	C6422-129	1	2221
DIABLO CABLE	D6472-59	1	ALL 30's
MEMOREX CABLE	C6499-25	1	ALL 40's
72 HEAT SINK	E6635-998	1	MODEL 72 PRINTER
72 PWR CIRCUIT	E6635-999	1	MODEL 72 PRINTER
72 CABLE	D6482-49	1	MODEL 72 PRINTER
6230 CABLE	D6230	1	2209
SHUGART CABLE	C6482-62	1	WCS/2270
MEMOREX BLOCK	204172	3	ALL 40's
MEMOREX LOGIC	012127	3	ALL 40's
SHUGART LOGIC	D25000	2	WCS/2270

*LIST OF DRAWINGS CONTAINED IN THIS SECTION BY PERIPHERAL

MODEL 601/701/2201
- 6053
- PWR SUPPLY
- CABLE

MODEL 602/702/2202
- L506
- L507
- L507-1/L532
- 6035
- 6035-1
- 6035-2
- 6134
- INPUT CABLE

MODEL 603/703
- L509
- L510
- L511
- L539
- L546
- F560-1
- 6284

MODEL 2203
- 351
- L545

MODEL 704
- 5977
- 5978

MODEL 605/705
- 6117
- 6243

MODEL 607/707
- 5992
- 5993
- 5994
- 5995
- 6255
- 6286

MODEL 708
- 335
- 6216

MODEL 609/709
- 343
- L534
- L535
- L536
- L537
- L538
- L540
- L541
- L542
- 6175
- 6235

MODEL 2209
- 6594
- 6595
- 6596
- 6598
- 6599
- 6230 CABLE

MODEL 710
- 850
- 851
- 853
- 854
- 855
- 856
- 857
- 858
- 861
- 862
- 863
- 864
- 868
- 869
- 871

MODEL 611/711
- L514
- L515
- L516
- L517
- L518
- L519
- L523
- 6021
- 6272
- 6273
- P2 CABLE
- P5 CABLE
- I/O CABLE
- INPUT CABLE
- PWR SUPPLY

MODEL 612/712/2212
- 6248
- 6249
- 6250
- 6288
- 6590

MODEL 514/614/714/2214
- 6125
- 6127
- 6127-1
- 6280
- 2214 CABLE

MODEL 618/718
- 5971
- 5972
- 5973
- 5974

MODEL 621/721/2221
- 6234
- 6360 TESTER
- 621/721 CABLE
- 2221 CABLE

MODEL 622/722
- 6251
- I/O CABLE

MODEL 623/723
- 6257
- 6258
- 6281

MODEL 624/724
- 6276
- 6281
- I/O CABLE

MODEL 2224
- 6542
- 6544
- 6545
- 6281

MODEL 627/727
- 6343
- 6344
- 6345
- 6346

MODEL 628
- L556
- L557
- 6287

MODEL 629/729
- 343
- L535
- L537
- L540
- L542
- L560
- L561
- L562
- L563
- L564
- 6175
- 6294

MODEL 630/730/2230
- 341
- 6295
- 6296
- 6297-1
- 6298
- 6299
- 6349
- 6398
- DIABLO CABLE

MODEL 632/732/2232
- L565
- 6289
- 6290
- 6336
- 6337
- 6363

MODEL 633/733
- 350
- L574
- L575
- L576
- L577
- L578
- 6366

MODEL 640/740/2240
- 352
- 6296
- 6297-1
- 6297-2
- 6298
- 6390
- 6391
- 6392
- 6395
- 6399
- MEMOREX CABLE
- MEMOREX LOGIC

MODEL 641/741/2241
- 347
- 348
- 6331
- 6332
- 6333
- 6334
- 6335

MODEL 2242
- 352
- 6296
- 6297-1
- 6298
- 6390
- 6391
- 6392
- 6395
- 6399
- MEMOREX CABLE
- MEMOREX LOGIC

MODEL 2243
- 352
- 6296
- 6297-1
- 6298
- 6399
- 6537
- 6538
- 6539
- MEMOREX CABLE
- MEMOREX LOGIC
- 2260
- 341
- 6295
- 6296
- 6297-1
- 6298
- 6299
- 6349
- 6398
- 6597
- DIABLO CABLE

WCS/2270
- 6718
- 7018
- SHUGART CABLE
- SHUGART LOGIC

MODEL 72
- 6568
- 6573
- 6574
- 6575
- 6576
- 6577
- 6578
- 6579
- 6704
- 6728
- 6734
- 6772
- 7012
- 7028
- 7076
- HEAT SINK
- PWR CIRCUIT
- CABLE

MODEL UROM
- 6233
- 6247
- 6268

MODEL TD24
- 6448
- 6558

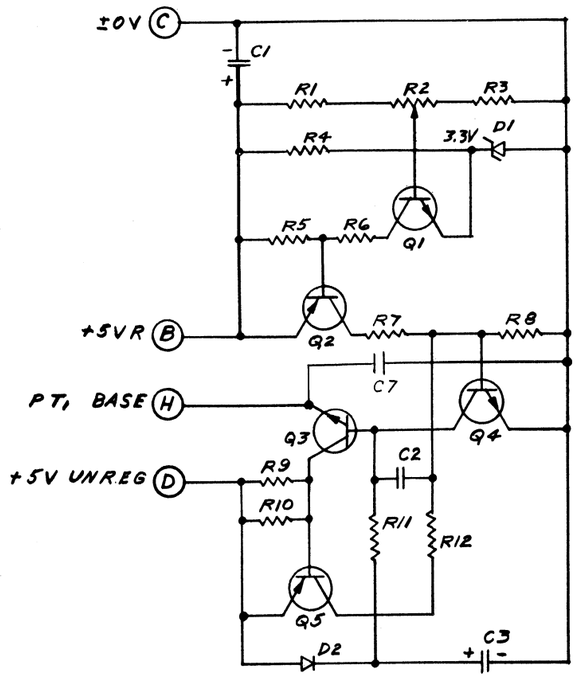
*This list does not necessarily contain all drawings of a particular peripheral due to the unavailability of some drawings.

DO NOT SCALE

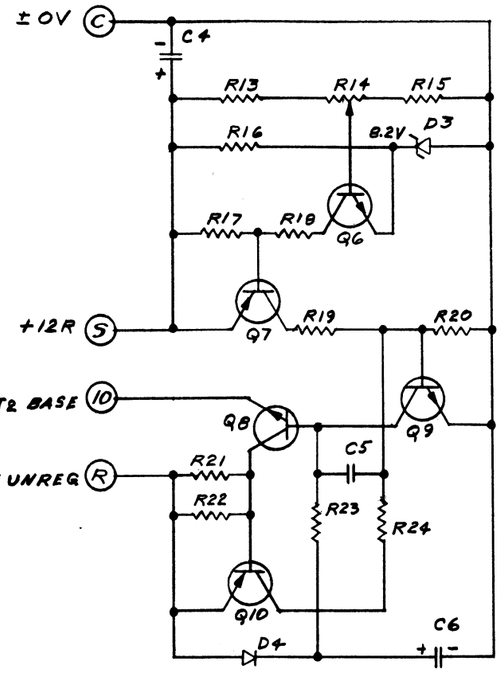
HOLE LEGEND		
DRILLED OR PUNCHED HOLE TOLERANCES:	HOLE DIA.	TOL.
	.0135 to .125	+.003 −.001
	.126 to .250	+.004 −.001
	.251 to .500	+.005 −.001

IDENT.	DESCRIPTION	QTY.
A		

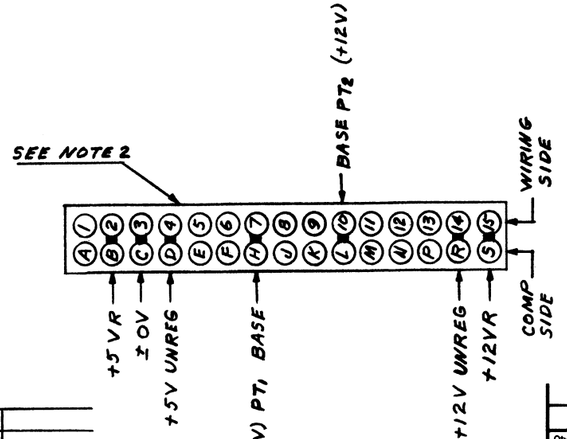
+5 V REGULATOR



+12 V REGULATOR



COMP.	SIZE / TYPE	QTY
R1, 13	220 Ω	2
R2, 14	1K POT.	2
R3, 15	1.5K	2
R4	100 Ω 1/2W	1
R5, 8, 17, 20	4.7K	4
R6, 18	1K	2
R7, 19	2.2K	2
R21, 22	10 Ω	2
R23	330 Ω ½ W	1
R12, 24	470 Ω 1/2W	2
C1, 3	100 μF/15V	2
C2	0.1 μF/10V CER.	1
C4	50 μF/50 V	1
C6	50 μF/50 V	1
D1	1N746A	1
D2, 4	1N3253	2
Q1, 4, 6, 9	RCA35224	4
Q2, 5, 7, 10	GT544	4
Q8	2N5189	1
D3	1N756A	1
R9	2.7 Ω	1
R16	330Ω 10%	1
Q3	2N3725	1
C7	.01 μF 25V	1
R11	100Ω 1/2 W	1
C5	.1 μF 20V CER.	1



NOTE:
1. ALL RESISTORS ¼ W UNLESS SPECIFIED OTHERWISE
2. PC SOCKET IS SOLDERED ON TO PC 6052

NO.	REVISION	BY	DATE
1	PER ECN 1497 R9 WAS 10Ω DELETED R10-10Ω	LEG	4-29-70
2	PER ECN 2010 R16 WAS 330 Ω ½W NOW 330 Ω ¼W 10% APP. RJT	PO	3/15/71
3	PER ECN #3104 Q3 WAS 2N5189 APP'D SKH	PO	8/2/72
4	PER ECN #3180 ADDED C7 CAP. APP'D. SKH	PO	9-25-72
5	PER ECN #3359 R11 WAS 330 Ω ½W APP'D SKH	PO	11-3-72

WANG PART NO.	ITEM	QTY.	NAME
Qty. Per Unit	FIRST USED ON	ASSY USED ON	

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

MATERIAL	MODEL NO. 700 SYSTEM
	SEE ENGRG SPECIFICATIONS No.
FINISH	TOL. EX. AS NOTED .XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1°30' FINISH 125 √
	SCALE / SHT / OF

MATERIAL	DESCRIPTION

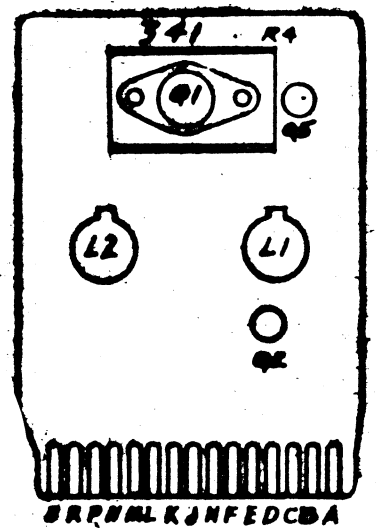
BY	DATE	APPROVED BY	DATE
DWN JS	9/29/69	E ENGR SKH	3/13/70
CHK RJT	3/13/70	M ENGR	
E. C. CONTROL		MFG ENGR	

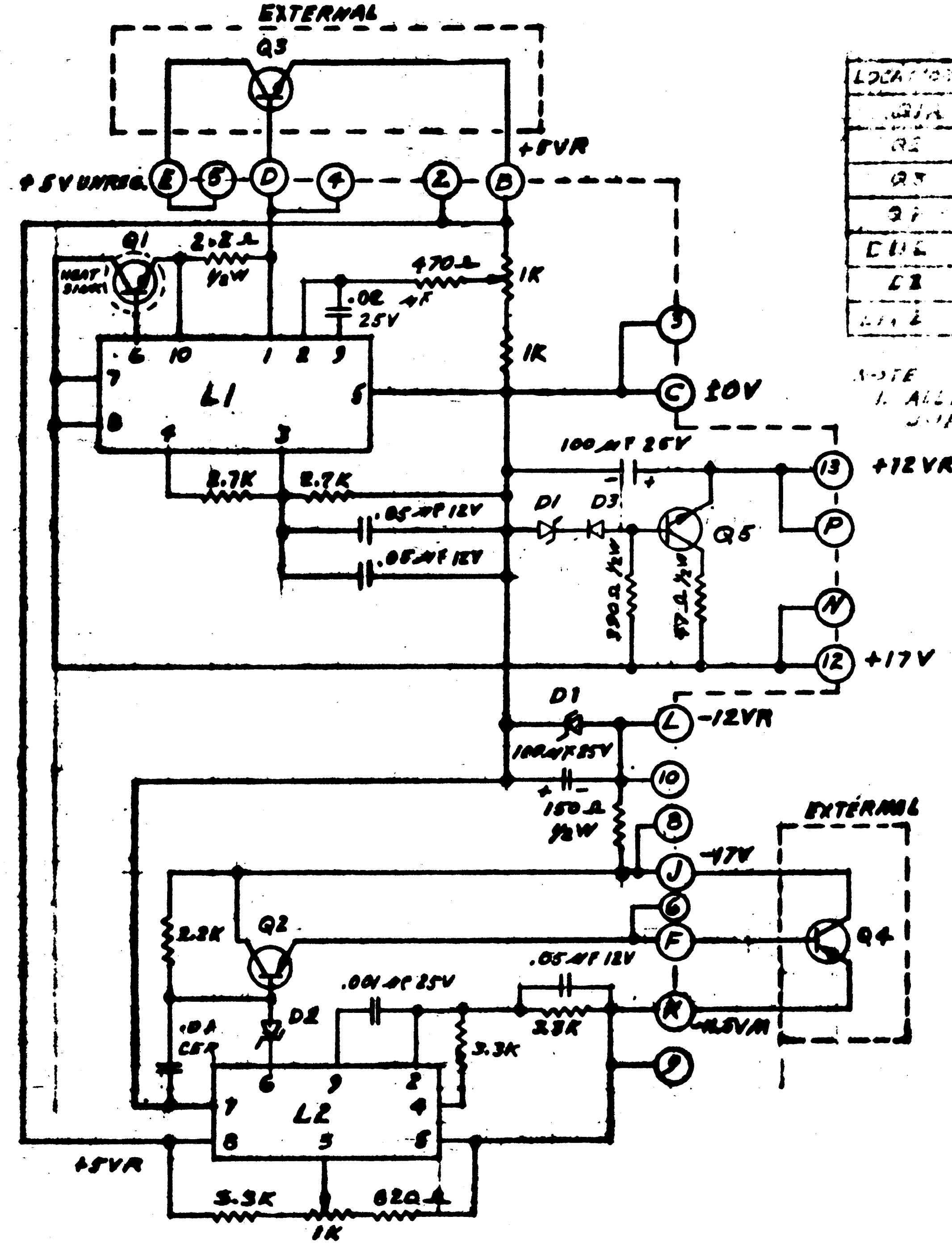
TITLE +5V REGULATOR P.C. #335
+12V REGULATOR

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
	C	6046	5

LOCATION	TYPE	WANGLAB. No.	QTY
Q1	40250M	375-1028	1
Q2	GT544	375-1017	1
Q3	40251	375-1008	1
Q4	2N6246	375-0029	1
D1	1N4742	380-2121	2
D2	1N742A	380-2042	1
L1,2	723	376-0066	2
D3	SIL DIODE	380-1001	1
Q5	3S284	375-1001	1

NOTE:
1. ALL RESISTORS ARE 1/4 W UNLESS SPECIFIED OTHERWISE.

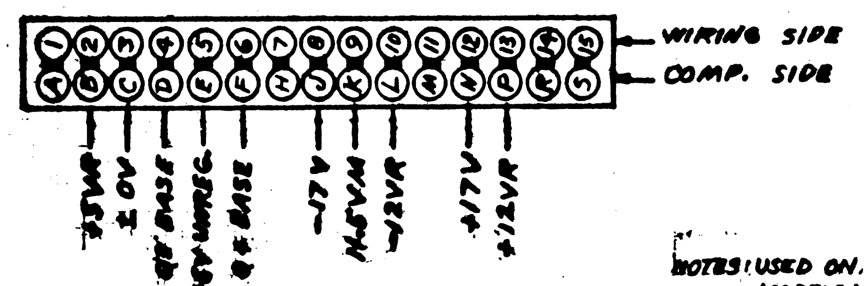




LOCATION	WANGLAB No.	QTY
Q1A	375-1028	1
Q2	375-1017	1
Q3	375-1008	1
Q4	375-0029	[illegible]
D1,2	380-2121	2
D3	380-2042	1
L1,2	376-0066	2

NOTE
1. ALL RESISTORS ARE 1/4 W UNLESS SPECIFIED OTHERWISE.

REV	BY	DATE	
1/1	[illegible]	[illegible]	PER ECN #2625 Q1 WAS 40250 APP:- SKHO
2/1	[illegible]	1-25-72	PER ECN #2726 Q4 WAS 2N1540 APP:- SKH
3/2	[illegible]	3/17/72	PER ECN #2835 RESISTOR AT L1-3 WAS 4.7K APP:- SKH
4/3	[illegible]	8-23-72	PER ECN #3161 ADDED REG. CIRCUIT TO +12V. APP:- SKH
5/4	[illegible]	3-16-73	REVISIED PER ECN #3563 APP'D SKH
6/4	[illegible]	6-18-73	REVISIED PER ECN #3673 APP: D. SKH
7/4	[illegible]	[illegible]	REVISED PER ECN #3571 APP: SKHO
8/5	[illegible]	[illegible]	REVISED PER ECN 4271, 4271A APP: SKHO



NOTES: USED ON THE FOLLOWING MODELS: 500/520/600/630/730/2230.

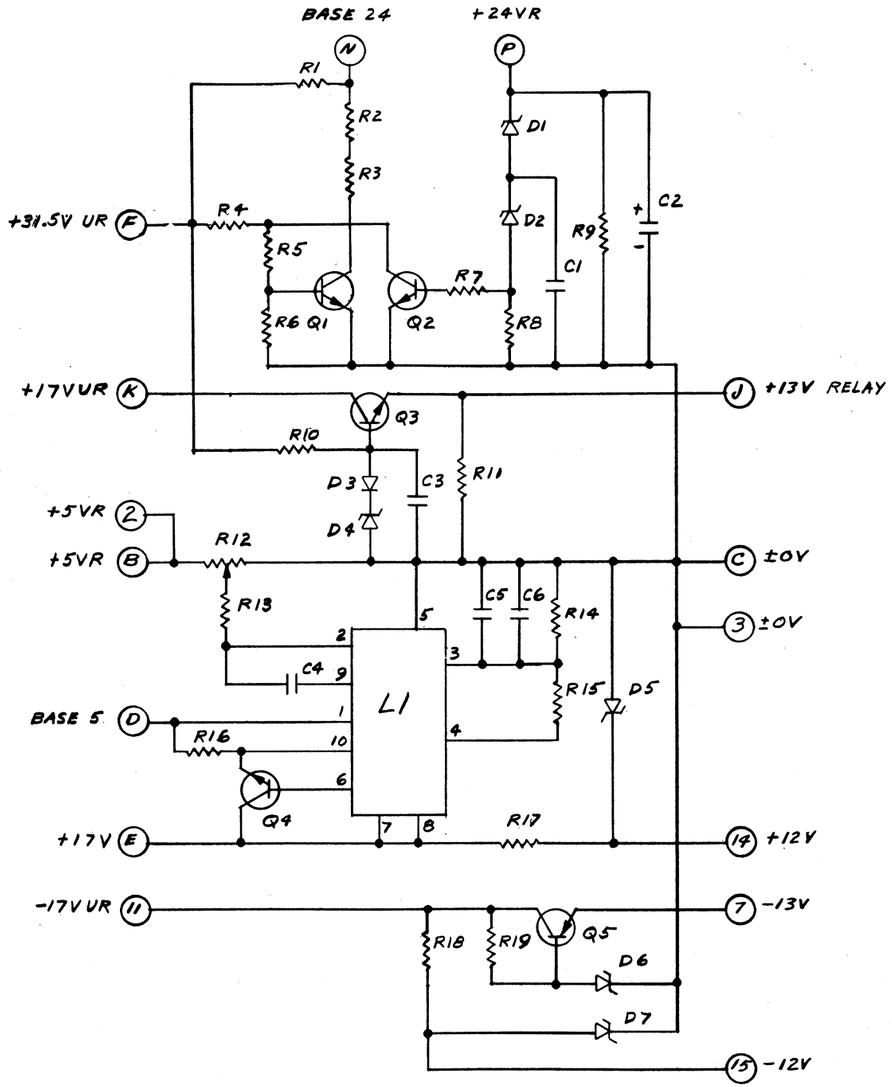
E-REV. 5

TOL. EX. AS NOTED .XX ±.010 .XXX ±.005 FRAC. ±1/ ANG. ±	WANG LABORATORIES INC. TEWKSBURY, MASS.		
MATERIAL	MODEL NO. SEE NOTE #1	DRAWN JB 1/14/71	APP. SKHO
		CHECKED DW 5/24/71	APP.
FINISH / SCALE	TITLE SCHEMATIC LOGIBLOC #341 POWER SUPPLY REGULATOR		
	W.O. NO.	DWG. NO. C 5999-1	REV. 8

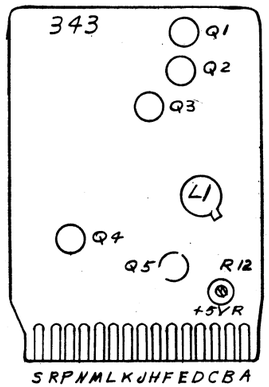
1-6665 ON DWG

COMP.	SIZE / TYPE	W.L. PART NO.	QTY
R1	100Ω 1/4W	330-2010	1
R2, 3	100Ω 2W	337-2010	2
R4	3.3K 1/4W	330-3033	1
R5	220Ω 1/4W	330-2022	1
R6, 8, 14	4.7K 1/4W	330-3047	3
R7	1K 1/4W	330-3010	1
R9	1K 1W	332-3010	1
R10	560Ω 1W	332-2056	1
R11	10K 1/4W	330-4010	1
R12	1K POT	336-0003	1
R13	470Ω 1/4W	330-2047	1
R15	2.7K 1/4W	330-3027	1
R16	2.7Ω 1/4W	330-0027	1
R17, 18	150Ω 1/2W	331-2015	2
R19	470Ω 1/2W	331-2047	1
C1	.0068μF	300-1911	1
C2	50μF/50VDC	300-3010	1
C3	.02μF	300-1904	1
C4	.1μF	300-1918	1
C5, 6	.05μF	300-1900	2
D1, 2	IN579A 12V	380-2120	2
D3	SIL DIODE	380-1001	1
D4, 6, 5, 7	IN4742 12V	380-2121	4
Q1, 2, 3, 4	2N5189	375-1021	4
Q5	2N4234	375-1024	1

LOCATION	TYPE	W.L. PART No.	QTY
L1	723	376-0066	1



COMPONENT LAYOUT



REVISIONS

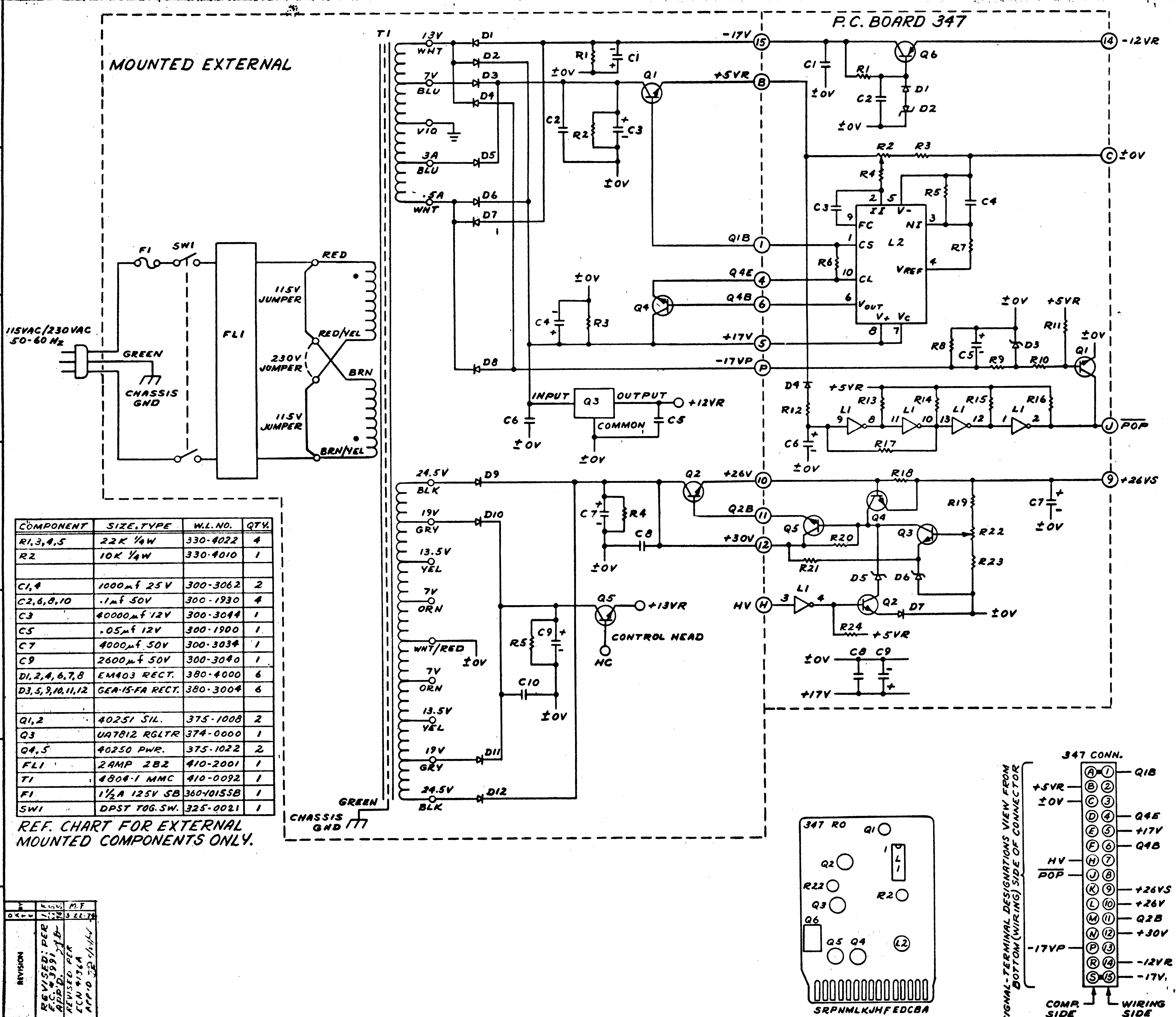
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
709	CHECKED K.T.	5/11/72	APP.	

TITLE SCHEMATIC LOGIBLOC # 343
POWER SUPPLY BOARD

W.O. NO. | DWG. NO. C 6188-1 | REV.

6188-1 ON DWG



COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1,3,4,5	22K 1/4W	330-4022	4
R2	10K 1/4W	330-4010	1
C1,4	1000μf 25V	300-3062	2
C2,6,8,10	.1μf 50V	300-1930	4
C3	40000μf 12V	300-3044	1
C5	.05μf 12V	300-1900	1
C7	4000μf 50V	300-3034	1
C9	2600μf 50V	300-3040	1
D1,2,4,6,7,8	EM403 RECT.	380-4000	6
D3,5,9,10,11,12	GEA-15-FA RECT.	380-3004	6
Q1,2	40251 SIL.	375-1008	2
Q3	UA7812 RGLTR	374-0000	1
Q4,5	40250 PWR.	375-1022	2
FL1	2AMP 2B2	410-2001	1
T1	4804-1 MMC	410-0092	1
F1	1 1/2A 125V SB	360-1015SB	1
SW1	DPST TOG. SW.	325-0021	1

REF. CHART FOR EXTERNAL MOUNTED COMPONENTS ONLY.

I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1	SN7406N	376-0055	7	14	1
L2	723	376-0066			1

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1,20	1.5K 1/4W	330-3015	2
R2,22	1K POT.	336-1001	2
R3	3.9K 1/4W	330-3039	1
R4,9	470Ω 1/4W	330-2047	2
R5,16	4.7K 1/4W	330-3047	2
R6	2.2Ω 1/2W	331-0022	1
R7	2.7K 1/4W	330-3027	1
R8	22K 1/4W	330-4022	1
R10,13,14,15	10K 1/4W	330-4010	4
R11	8.2K 1/4W	330-3082	1
R12	100Ω 1/4W	330-2010	1
R17	6.8K 1/4W	330-3068	1
R18	.35Ω 3W 5%	334-0019	1
R19,23	2.2K 1/4W	330-3022	2
R21	1.2K 1/4W	330-3012	1
R24	1K 1/4W	330-3010	1
C1,8	.1μf 50V	300-1930	2
C2,4	.05μf 12V	300-1900	2
C3	.02μf 25V	300-1904	1
C5	3.3μf 35V TA.	300-4040	1
C6	1μf 35V TA.	300-4000	1
C7	10μf 35V TA.	300-4032	1
C9	10μf 25V	300-3047	1
D1,7	40V SIL.	380-1004	2
D2,3,6	1N4742 12V ZEN.	380-2121	3
D4	30V SIL.	380-1001	1
D5	1N756A 8.2V ZEN.	380-2082	1
Q1	2N3014 SIL.	375-0017	1
Q2,3,4,5	2N3725	375-1027	4
Q6	2N6111 PNP	375-1034	1

D 6473

REVISION
1 REVISED: PER P.C. 3591
2 REVISED PER ECN #136A

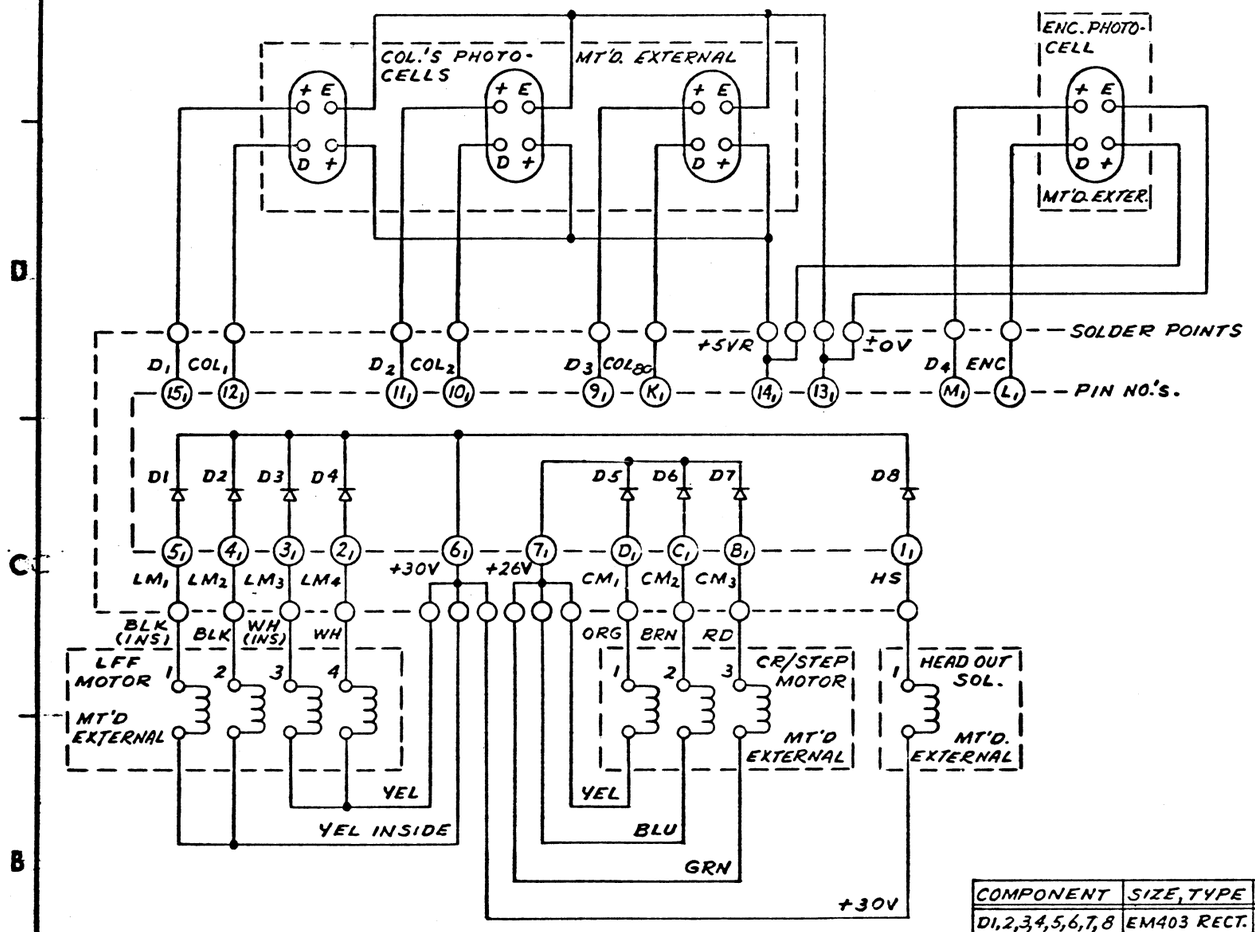
WANG LABORATORIES INC.
TEWKSBURY, MASS.

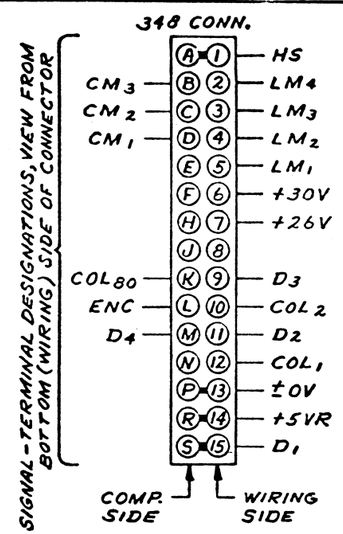
MODEL NO. 7417 2241	DRAWN F.S.S.	10-25-73	APP.	11-14-73
	CHECKED		APP.	

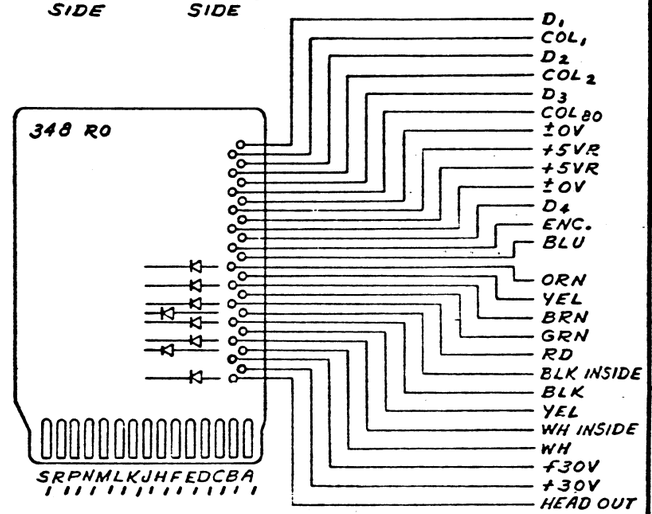
TITLE SCHEMATIC LOGIBLOC #347 POWER SUPPLY. REGULATOR FOR THERMAL. PRINTER

SHT 1 OF 1 | DWG. NO. D 6473 | REV. 2

DO NOT SCALE







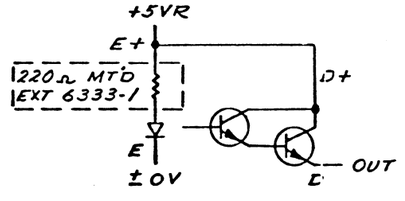
HOLE LEGEND

	HOLE DIA.	TOL.
DRILLED OR PUNCHED HOLE TOLERANCES:	.0135 to .125	+.003 −.001
	.126 to .250	+.004 −.001
	.251 to .500	+.005 −.001

IDENT.	DESCRIPTION	QTY.
A		

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
D1,2,3,4,5,6,7,8	EM403 RECT.	380-4000	8

TYPICAL PHOTO CELL CIRCUIT



REVISION	BY	DATE

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION

FIRST USED ON	ASSY USED ON

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

BY	DATE	APPROVED BY	DATE
DWN F.S.S.	10-25-73	E ENGR	11-14-73
CHK		M ENGR	
E C CONTROL		MFG ENGR	

MATERIAL

MODEL NO 741/2241

SEE ENGRG SPECIFICATIONS No.

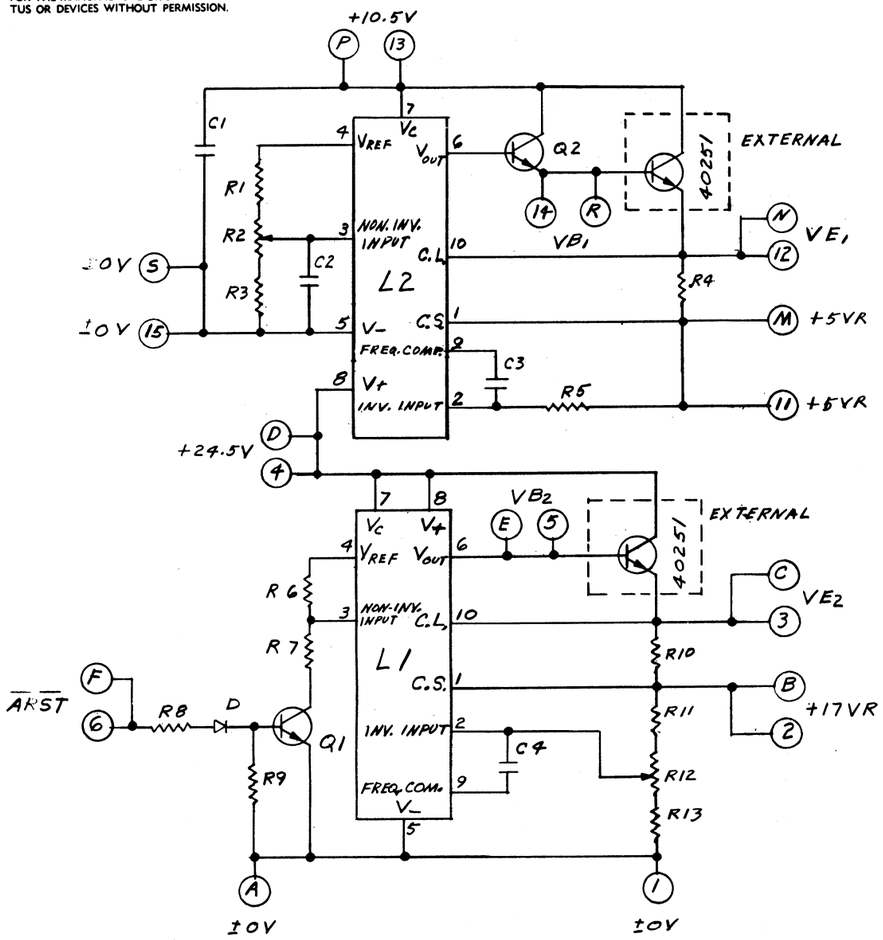
FINISH

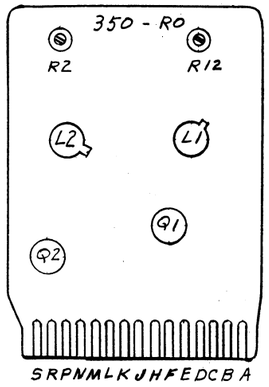
TOL. EX. AS NOTED .XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1°30' FINISH 125

SCALE | SHT 1 OF 1

TITLE SCHEMATIC LOGIBLOC #348 MOTOR AND PHOTO CELL TERMINAL BOARD

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
	C	6474	0



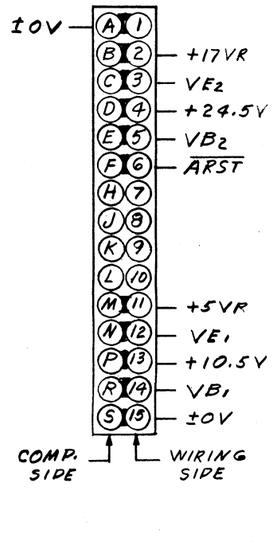


LOCATION	TYPE	W.L. PART No.	QTY
L1, 2	723	376-0066	2

COMP.	SIZE/TYPE	W.L. PART No	QTY
R1, 13	1.5K ¼W	330-3015	2
R2, 12	1K POT	336-0003	2
R3	4.7K ¼W	330-3047	1
R4, 10	.25Ω 5% 3 W	339-0017	2
R7, 11	1K ¼W	330-3010	2
R8	10K ¼W	330-4010	1
R9	47K ¼W	330-4047	1
R5	3.3K ¼W	330-3033	1
R6	680Ω ¼W	330-2068	1
C1, 2	.05μF CER	300-1900	2
C3, 4	220pF CER	330-1220	2
D	DIODE SIL.	380-1001	1
Q1, 2	2N5189	375-1021	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

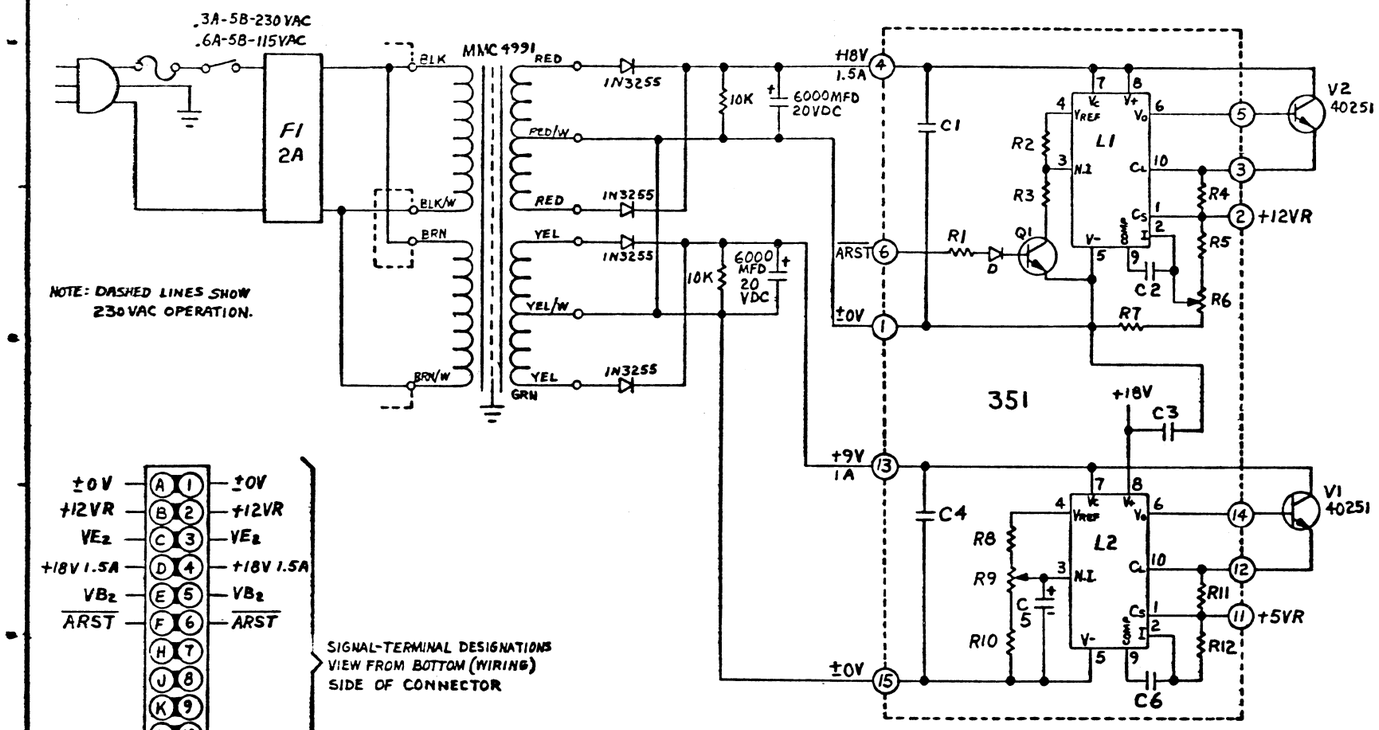
IDENT.	DESCRIPTION	QTY.
A		

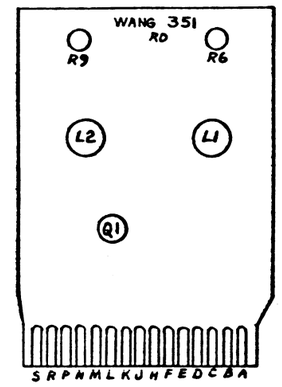


WANG PART NO.	ITEM	QTY.	NAME
Qty. Per Unit / FIRST USED ON / ASSY USED ON			
			WANG LABORATORIES, INC. TEWKSBURY, MASS. U. S. A.
			MATERIAL
			MODEL NO. 633/733
			SEE ENGRG SPECIFICATIONS No.
			FINISH
			TOL. EX. AS NOTED .XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1°30' 125 FINISH
			SCALE SHT OF

MATERIAL	DESCRIPTION			
BY	DATE	APPROVED BY	DATE	
DWN	10-1-73	E ENGR SKH	10/1/73	
CHK		M ENGR		
E. C. CONTROL		MFG ENGR		
TITLE SCHEMATIC 350 PROGRAMABLE POWER SUPPLY				
	C	6490-1		
WANG PART NUMBER	SIZE	DRAWING NUMBER	REV	

NO.	REVISION	BY	DATE





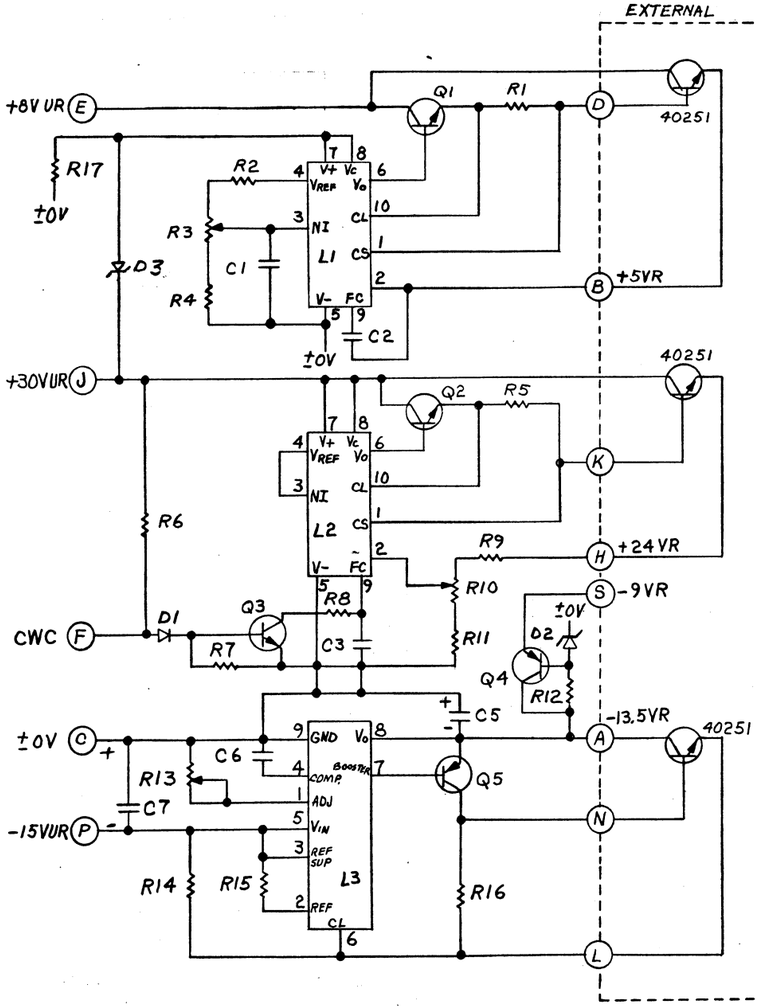
COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY.
R1	10K ¼W	330-4010	1
R2,3,5	1K ¼W	330-3010	3
R4,11	.3Ω 1.5W	333-0044	2
R6,9	1K TRIM POT	336-1001	2
R7	1.8K ¼W	330-3018	1
R8,12	1.5K ¼W	330-3015	2
R10	4.7K ¼W	330-3047	1
C1, 3	.047μf MYLAR	300-2348	2
C2,6	220pf CER.	300-1221	2
C4	.05μf CER.	300-1900	1
C5	1μf TANT.	300-4000	1
Q1	MPS 6512	375-1012	1
D	SIL. DIODE (1035)	380-1001	1
L1,2	723 I.C.	376-0066	2

BY	REVISION	NO.
D K T M		

TOL. EX. AS NOTED
.XX ±.010
.XXX ±.005
FRAC. ±1/64
ANG. ±0°30'
FINISH:
MATERIAL
FINISH

IDENT	QTY	NAME	MATERIAL	DESCRIPTION
		WANG LABORATORIES, INC. TEWKSBURY, MASS. U. S. A.	DR RK	DATE 10-26-73
			CHK	DATE
			APPD	DATE 12/20/73
MODEL No. 2203		W.O. No.	SCALE	SHEET OF
TITLE SCHEMATIC LOGIBLOC #351 PROGRAMABLE POWER SUPPLY				
PART NUMBER		REV	SIZE C	DRAWING NUMBER 6467-1

DO NOT SCALE



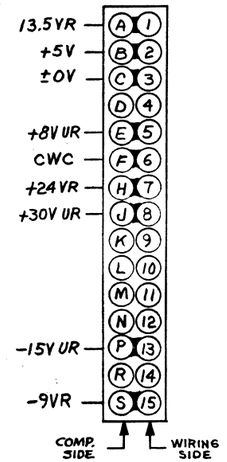
LOCATION	TYPE	W.L. PART NO.	TERM. NO. ±0V	TERM. NO. Vcc+5V	QTY.
L1,2	723	376-0066	5	2	2
L3	LM304	376-0134	9		1

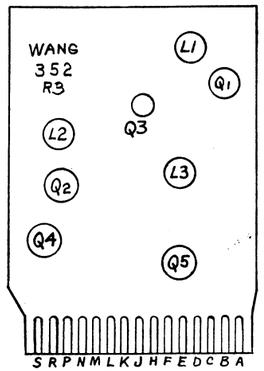
COMPONENT	SIZE/TYPE	W.L.PART NO.	QTY.
R1	1Ω 1/2 W	331-0010	1
R2	820Ω 1/4W	330-2082	1
R3,10	1K TRIM POT	336-1001	2
R4,11	3.3K 1/4W	330-3033	2
R6,9	8.2K 1/4W	330-3082	2
R7	1K 1/4W	330-3010	1
R8,15	2.2K 1/4W	330-3022	2
R12	220Ω 1/4W	330-2022	1
R13	10K TRIM POT	336-1010	1
R14	.25Ω 3W	334-0017	1
R16	100Ω 1/4 W	330-2010	1
C1, 2, 6	.0014f 200V	300-1906	3
C5	15μf 20V TANT	300-4022	1
C7	5.6μf 35V TANT	300-4017	1
Q1,2	2N5189	375-1021	2
Q3	2N3014	375-0017	1
Q4,5	2N4037	375-0018	2
Q1,2,4,5	TRANSIPAD	375-9001	4
Q3	TRANSIPAD	375-9004	1
D1	D035 SIL.	380-1001	1
D2	IN758A 10V	380-2100	1
C3	.0024f 200V	300-1913	1
R5	2.7Ω 1/2 W	331-0027	1
D3	IN4741 11V 1W	380-2110	1
R17	4.7K 1/4W	330-3047	1

HOLE LEGEND

	HOLE DIA.	TOL.
DRILLED OR PUNCHED HOLE TOLERANCES:	.0135 to .125	+.003 −.001
	.126 to .250	+.004 −.001
	.251 to .500	+.005 −.001

IDENT.	DESCRIPTION	QTY.
A		





COMPONENT LAYOUT

MAY 19 1977

E.REV. 2

NO.	REVISION	DATE	BY
1/0	REV PER ECN 4024 DELETED C4; CHANGED C3 FROM .0014μf TO .0024μf APP'D:	2-5-74	BK
2/1	REV. PER E.C.N.# 4227 APP'D:	6 DEC 74	DRC
3/2	REV. PER ECN-4606, 4606A. ADDED D2 & R17. APP'D: R. Rufer	2-18-75	BK

WANG PART NO.	ITEM	QTY. Per Unit	FIRST USED ON	ASSY USED ON

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

NAME	MATERIAL	DESCRIPTION
MATERIAL	MODEL NO. 640/740/2240/2242/2243	
	SEE ENGRG SPECIFICATIONS No.	
FINISH	TOL. EX. AS NOTED .XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1°30' FINISH 128	
	SCALE — SHT 4 OF 7	

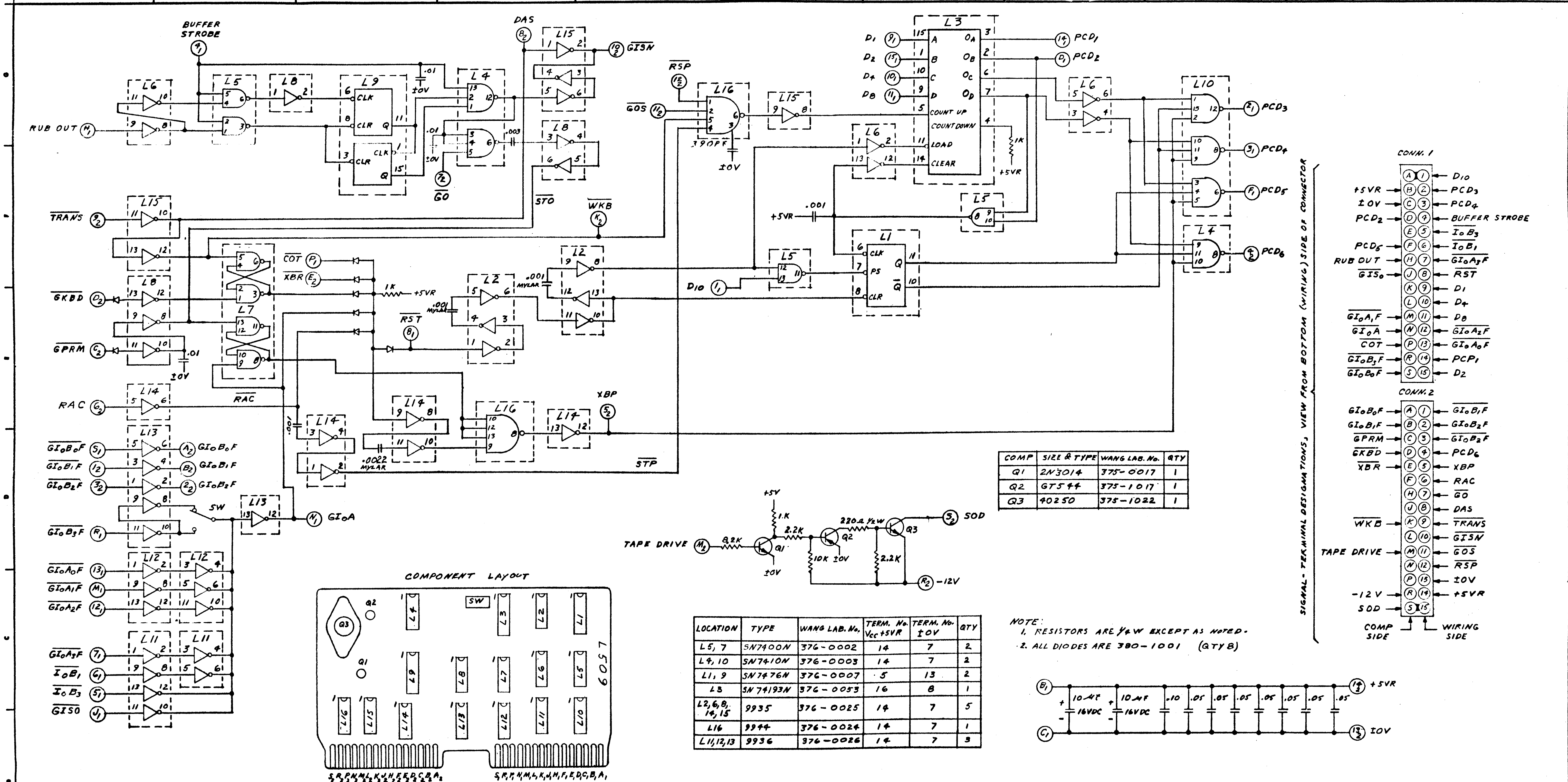
BY	DATE	APPROVED BY	DATE
DWN BK	12-26-73	E ENGR	2/1/74
CHK	3-21-75	M ENGR	
E. C. CONTROL		MFG ENGR	

TITLE SCHEMATIC LOGIBLOC #352 POWER SUPPLY REGULATOR

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
210-0352	C	6496	3

9649 3

DO NOT SCALE



COMP	SIZE & TYPE	WANG LAB. No.	QTY
Q1	2N3014	375-0017	1
Q2	GT544	375-1017	1
Q3	40250	375-1022	1

LOCATION	TYPE	WANG LAB. No.	TERM. No. Vcc +5VR	TERM. No. ±OV	QTY
L5, 7	SN7400N	376-0002	14	7	2
L4, 10	SN7410N	376-0003	14	7	2
L1, 9	SN7476N	376-0007	5	13	2
L3	SN74193N	376-0053	16	8	1
L2, 6, 8, 14, 15	9935	376-0025	14	7	5
L16	9944	376-0024	14	7	1
L11, 12, 13	9936	376-0026	14	7	3

NOTE:
1. RESISTORS ARE 1/4 W EXCEPT AS NOTED.
2. ALL DIODES ARE 380-1001 (QTY 8)

NO.	REVISION	DATE	BY
1	PER ECN 2788 ADDED DIODE AT (G) AMP (2) L11, 12, 13 WAS 9935 APP: SKH	3-1-72	
2	PER ECN 2813 CHANGED RESISTOR VALUES IN TAPE DRIVE APP: SKH	3-14-72	
3	REVISED PER ECN 3404 APP: SKH	11-30-72	

TOL. EX. AS NOTED .XX ±.010 .XXX ±.005 ANG. ±0°30' FRAC. ±1/64

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

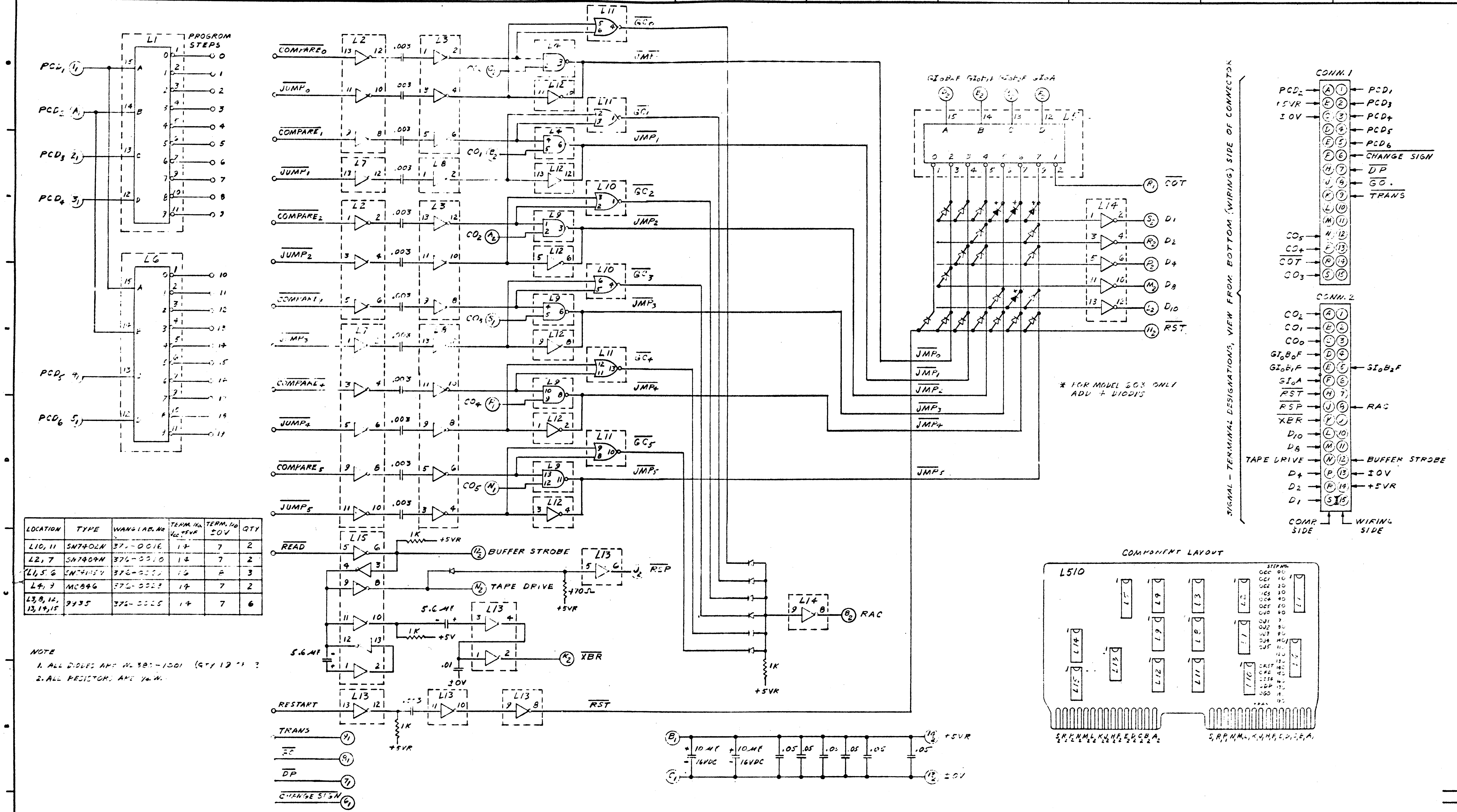
DR — DATE 3/23/71
CHK — DATE
APPD G.T.C. — DATE 4/23/71

MODEL No. 703 — W.O. No. — SCALE — SHEET — OF

TITLE SCHEMATIC LOGIBLOC, TAPE READER # L509

PART NUMBER — REV 3 — SIZE D — DRAWING NUMBER 6109

DO NOT SCALE



LOCATION	TYPE	WANG LAB. No	TERM. No. Vcc +5VR	TERM. No ±0V	QTY
L10, 11	SN7402N	37[illegible]-0016	14	7	2
L2, 7	SN7404N	376-0010	14	7	2
L1, 5, 6	SN74155N	376-[illegible]	16	8	3
L4, 9	MC846	376-0023	14	7	2
L3, 8, 12, 13, 14, 15	9935	376-0025	14	7	6

NOTE

1. ALL DIODES ARE WL 380-1001 (QTY 12 [illegible] 3
2. ALL RESISTORS ARE 1/4 W.

IDENT	QTY	NAME	MATERIAL	DESCRIPTION

TOL. EX. AS NOTED
.XX ±.010 ANG. ±0°30'
.XXX ±.005 FRAC. ±1/64
FINISH: ✓

MATERIAL

FINISH

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

DR | DATE
CHK | DATE
APPD | DATE

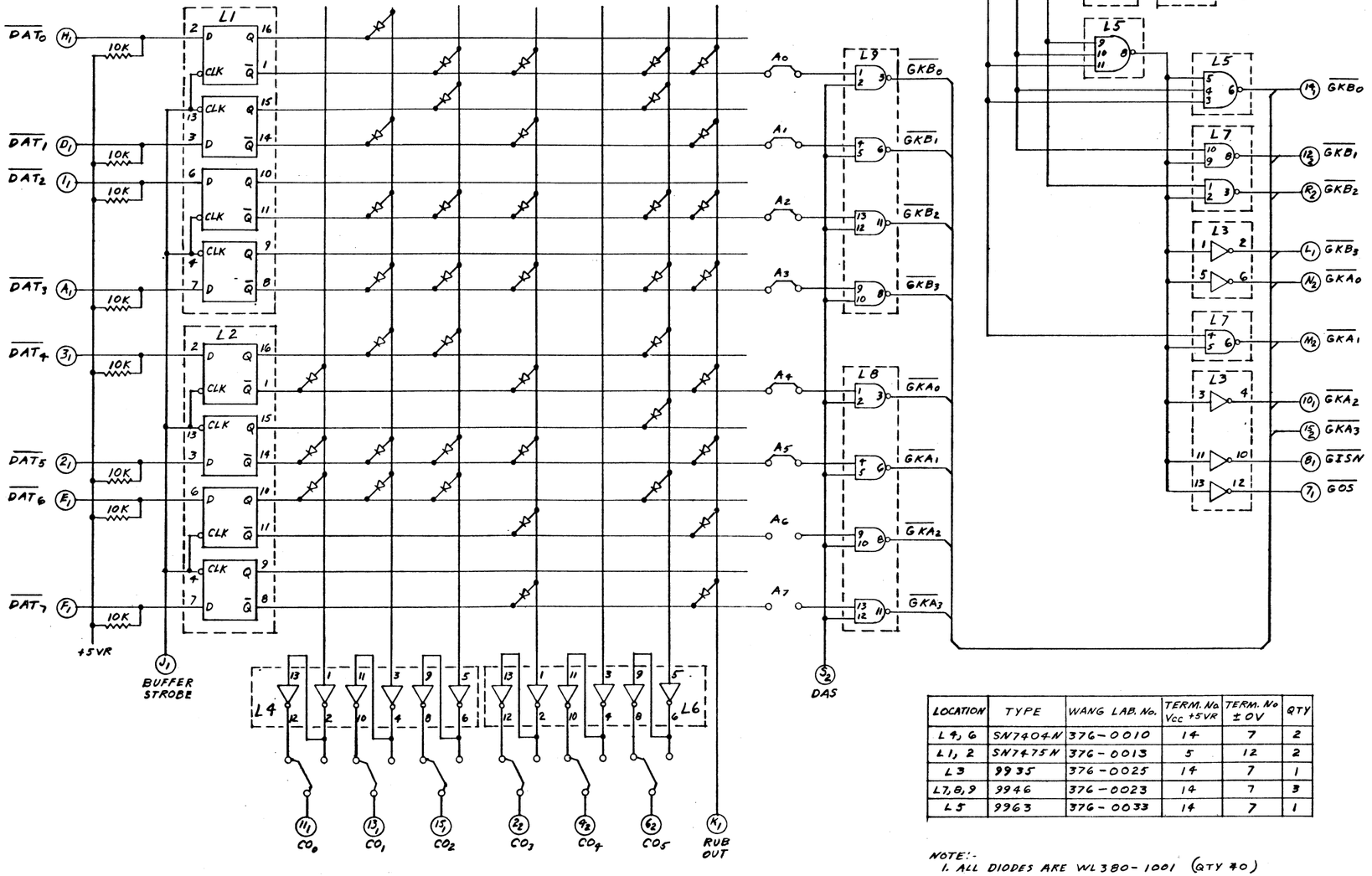
MODEL No. | W.O. No. | SCALE | SHEET OF

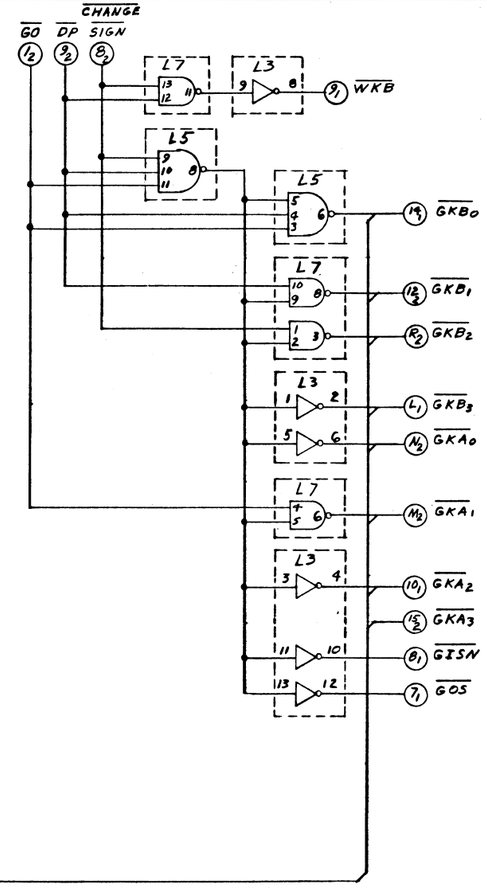
TITLE SCHEMATIC ASSEMBLY, TAPE READER # L510

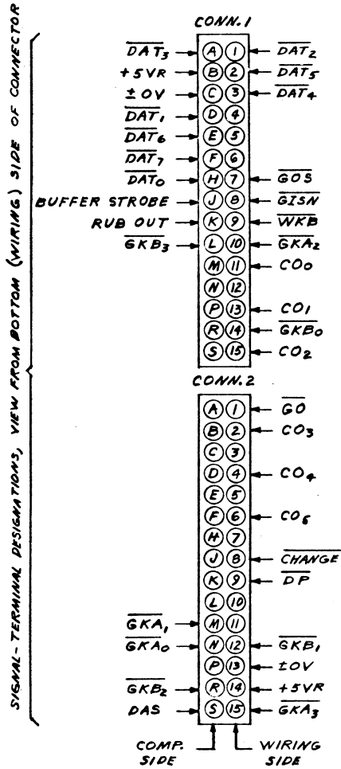
PART NUMBER	REV	SIZE	DRAWING NUMBER
		D	6110

REVISION

DO NOT SCALE



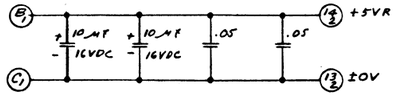




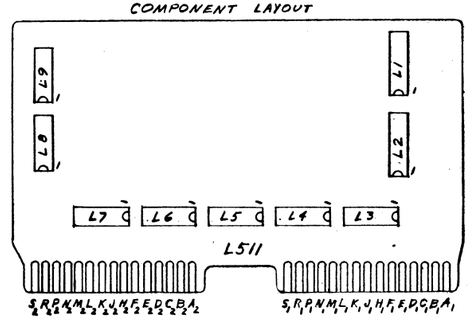
SIGNAL-TERMINAL DESIGNATIONS, VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR

LOCATION	TYPE	WANG LAB. No.	TERM. No Vcc +5VR	TERM. No ±0V	QTY
L4, 6	SN7404N	376-0010	14	7	2
L1, 2	SN7475N	376-0013	5	12	2
L3	9935	376-0025	14	7	1
L7, 8, 9	9946	376-0023	14	7	3
L5	9963	376-0033	14	7	1

NOTE:-
1. ALL DIODES ARE WL380-1001 (QTY 70)
2. ALL RESISTORS ARE ¼W



COMPONENT LAYOUT



REV	DESCRIPTION	DATE	APPD
A			
B			
C			
D			

TOL. EX. AS NOTED
.XX ±.010 ANG. ±0°30'
.XXX ±.002 RAD. ±1/64
FINISH 8

MATERIAL

FINISH

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

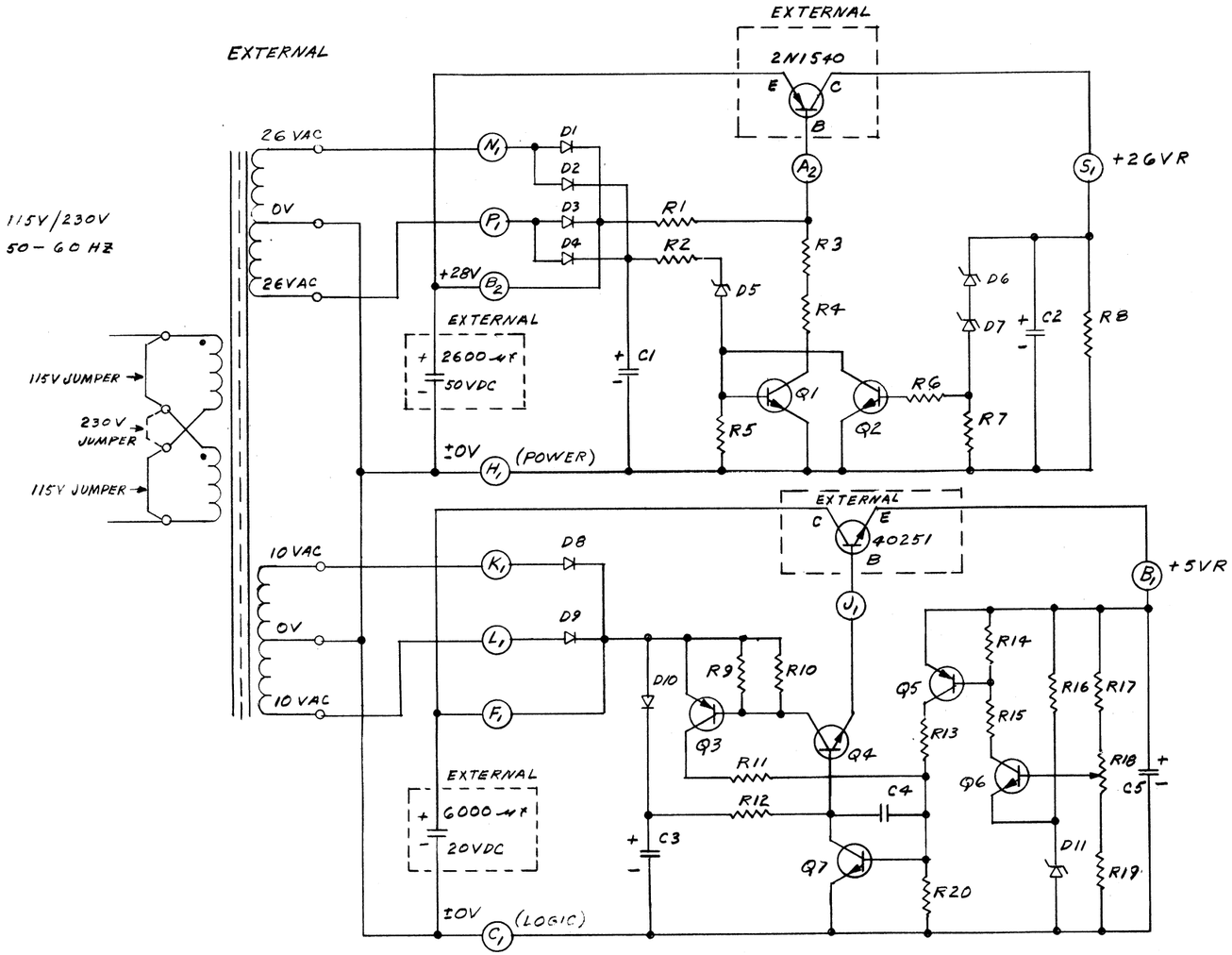
IDENT	QTY	NAME	MATERIAL	DESCRIPTION
		DR [illegible]		DATE 3/31/71
		CHK		DATE
		APPD G.T.C.		DATE 4/28/71

MODEL No. 703 | W.O. No. | SCALE FULL | SHEET OF

TITLE SCHEMATIC LOGIBLOC, TAPE READER # L511

PART NUMBER | REV | SIZE D | DRAWING NUMBER 6111

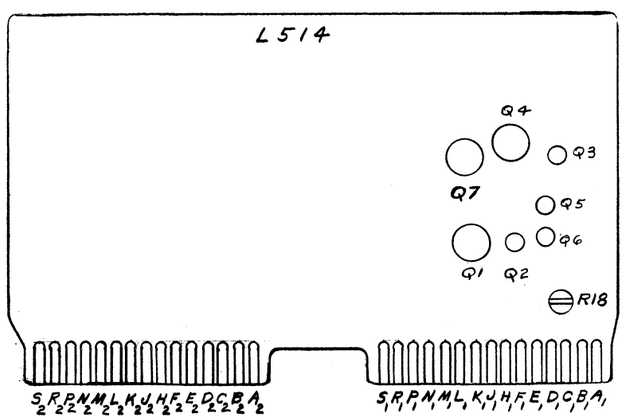
D 6111



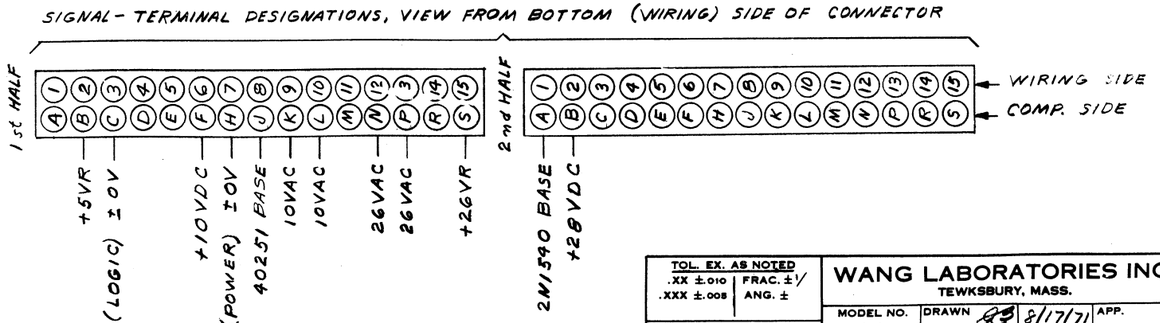
COMP.	SIZE/TYPE	WANG PART No.	QTY
R1,6,7,15	1K 1/4W	330-3010	4
R2,13	2.2K 1/4W	330-3022	2
R3,4	100Ω 2W	337-2010	2
R5	470Ω 1/4W	330-2047	1
R8	2.2K 1/2W	331-3022	1
R9,10	10Ω 1/4W	330-1010	2
R11	470Ω 1/2W	331-2047	1
R12	330Ω 1/4W	330-2033	1
R19,20	4.7K 1/4W	330-3047	2
R16	100Ω 1/2W	331-2010	1
R17	220Ω 1/4W	330-2022	1
R18	1K POT	336-1001	1
R19	1.5K 1/4W	330-3015	1
C1	1.2MF 35VDC	300-4013	1
C2	50MF 50VDC	300-3010	1
C3,5	100MF 15VDC	300-3011	2
C4	0.1MF	300-1918	1
D1,3,8,9	IN4719	380-3002	4
D2,4,10	IN3253	380-3003	3
D5	IN757A	380-2091	1
D6,7	IN759A	380-2120	2
D11	IN746A	380-2033	1
Q1,4	2N5189	375-1021	2
Q2,6	2N3014	375-0017	2
Q3,5	GT544	375-1011	2
Q7	RCA35224	375-1001	1

REV.	DATE	BY	REVISIONS
1	2-11-72	JB	PER ECN #2762 WAS L514-1 APP:— S.K. HO

COMPONENT LAYOUT

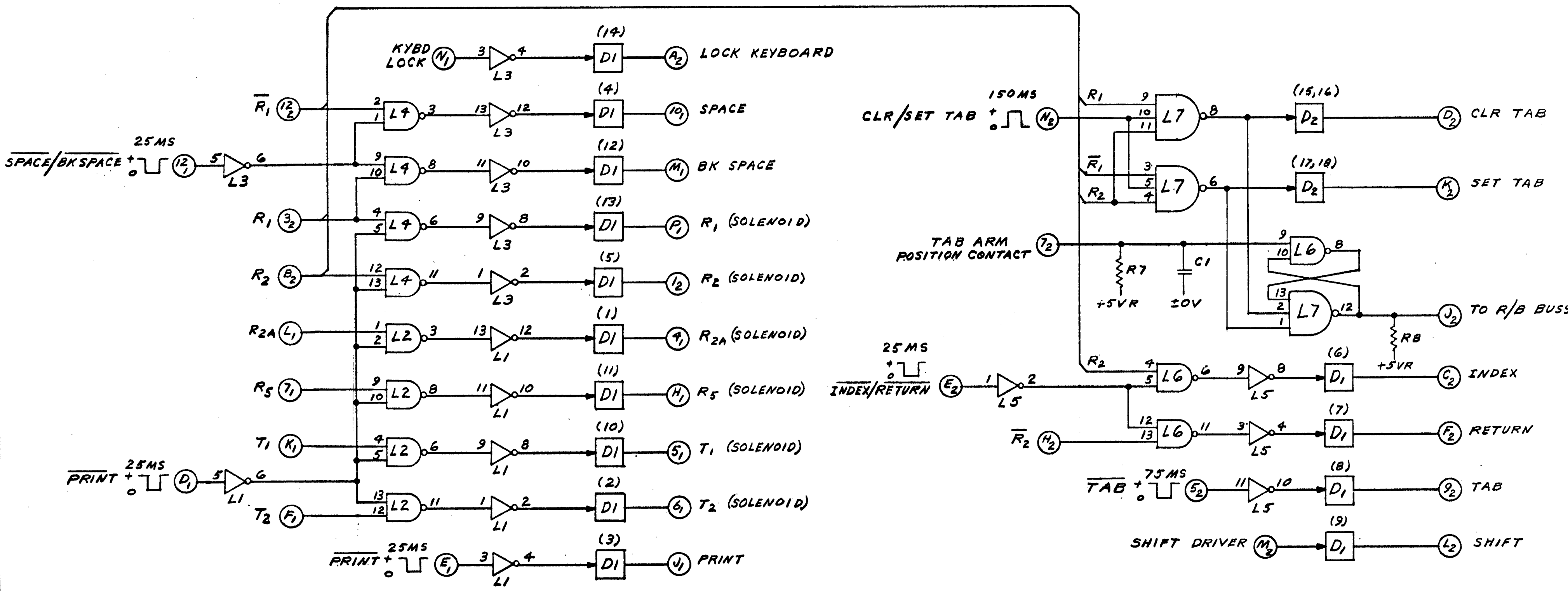


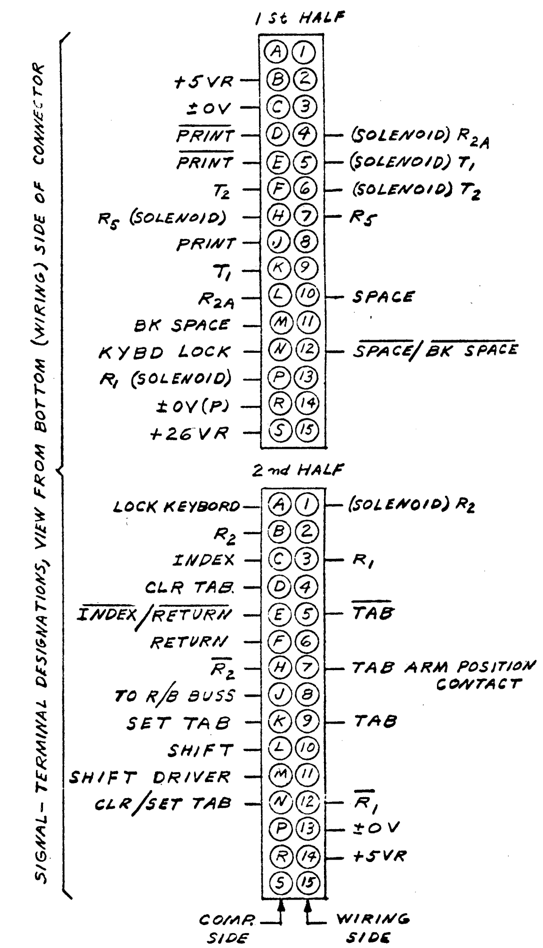
SIGNAL-TERMINAL DESIGNATIONS, VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR

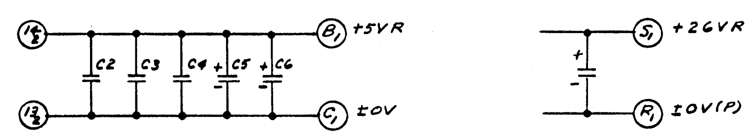


TOL. EX. AS NOTED		WANG LABORATORIES INC.				
.XX ±.010	FRAC. ±1/	TEWKSBURY, MASS.				
.XXX ±.005	ANG. ±	MODEL NO.	DRAWN	8/17/71	APP.	
MATERIAL		711	CHECKED		APP.	12-27-71
FINISH	SCALE	TITLE: SCHEMATIC, POWER SUPPLY FOR MODEL 711 ONLY L514				
		W.O. NO.	DWG. NO. C 6144-1			REV. 1

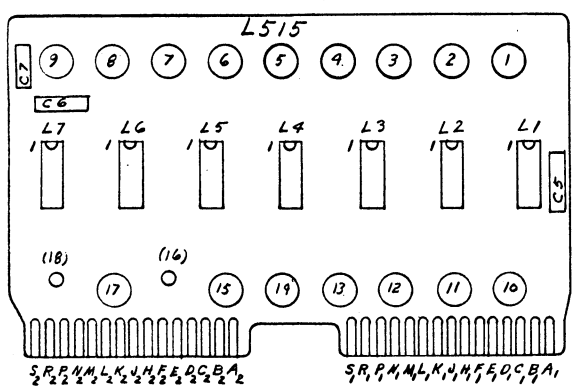
DWG. NO. C



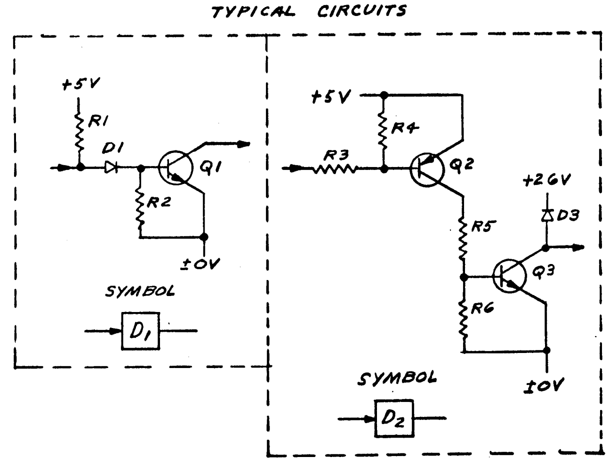




COMPONENT LAYOUT



TYPICAL CIRCUITS



D1

COMP.	SIZE/TYPE	WANG PART No.	QTY
R1	330Ω 1/4W	330 – 2033	14
R2	2.2K 1/4W	330 – 3022	14
D1	SIL DIODE	380 – 1001	14
Q1	2N3725	375 – 1027	14

D2

COMP.	SIZE/TYPE	WANG PART No.	QTY
R3	680Ω 1/4W	330 – 2068	2
R4	10K 1/4W	330 – 4010	2
R5	56Ω 1/4W	330 – 1056	2
R6	1K 1/4W	330 – 3010	2
D3	SIL DIODE	380 – 1004	2
Q2	GT544	375 – 1011	2
Q3	2N3725	375 – 1027	2

LOC.	TYPE	WANG PART No.	TERM. No. Vcc +5VR	TERM. No. ±0V	QTY
L1, 3, 5	MC836P	376 – 0026	14	7	3
L2, 4, 6	MC846P	376 – 0023	14	7	3
L7	MC862	376 – 0034	14	7	1

COMP.	SIZE/TYPE	WANG PART. No.	QTY
R7, 8	4.7K 1/4W	330 – 3047	2
C1, 2, 3, 4	.05µF	300 – 1900	4
C5, 6	35µF 16VDC	300 – 3009	2
C7	1.2µF 35VDC	300 – 4013	1

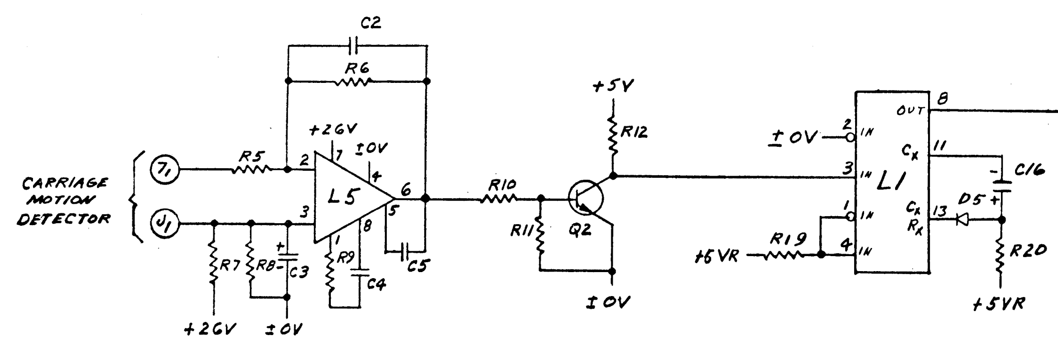
NO.	REVISION	DATE	BY
1	PER ECN 3048 DELETED D2 FROM D1 APP. SCH	6-20-72	
2	PER ECN #3721 Q1,3 WAS 2N5189 APP. D. SCH	10-27-72	

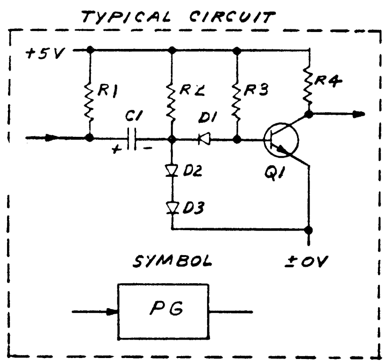
TOL. EX. AS NOTED .XX ±.010 .XXX ±.005 ANG. ±0°30' FRAC. ±1/64

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

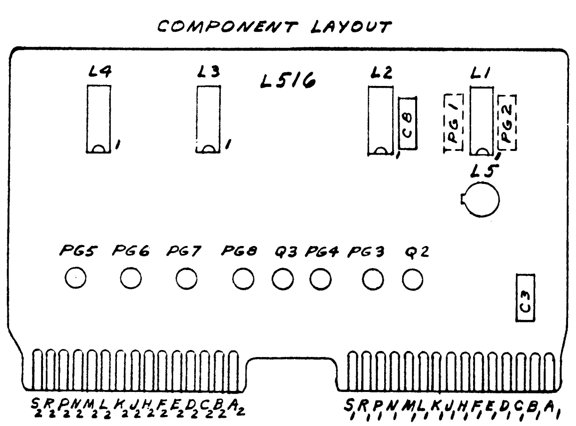
DR — DATE 8/16/71
APPD — DATE 2-27-71
MODEL No. 711 — SCALE 4X
TITLE: DRIVER BOARD #L515
REV 2 — SIZE D — DRAWING NUMBER 6145-1

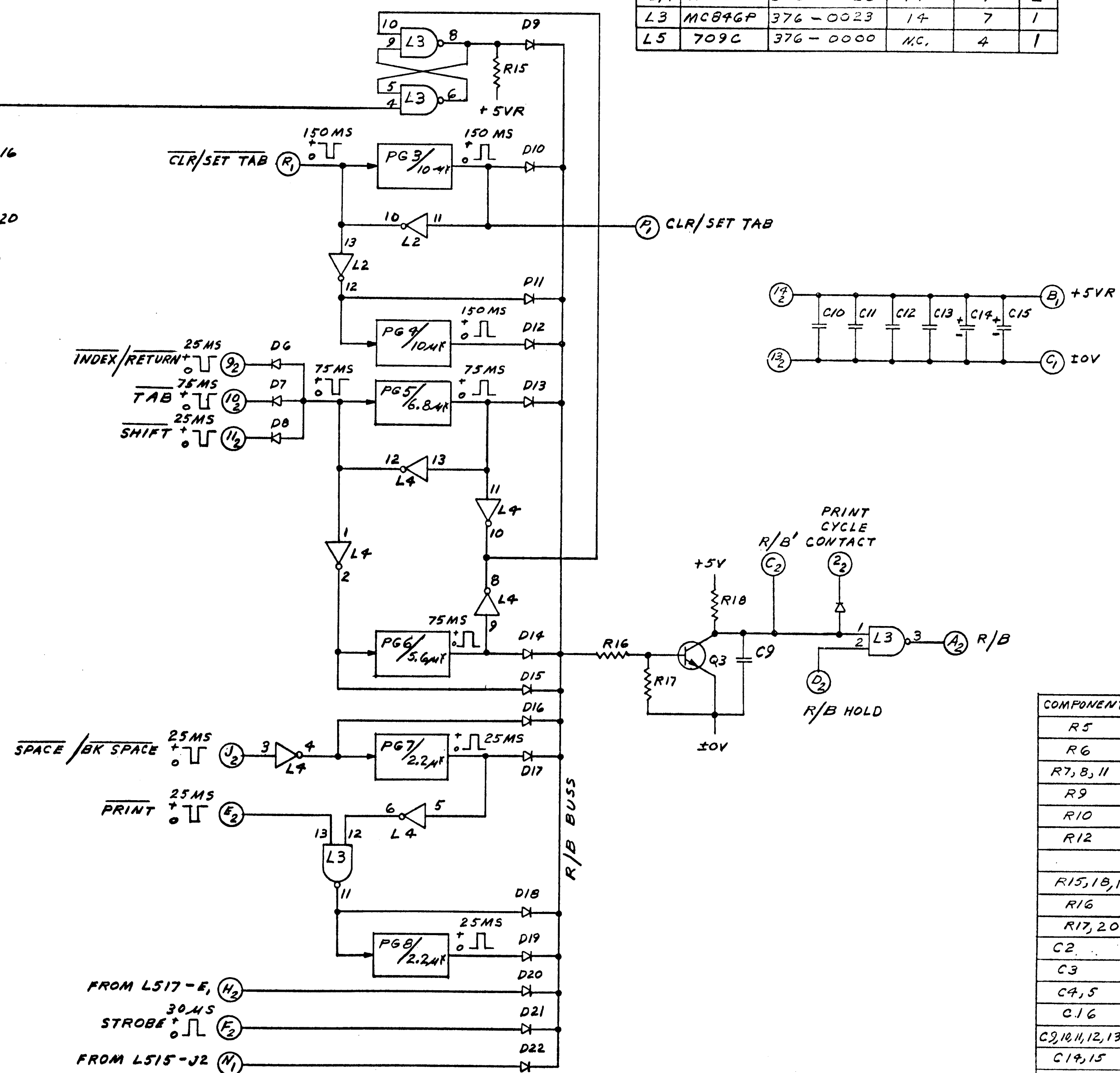
DO NOT SCALE



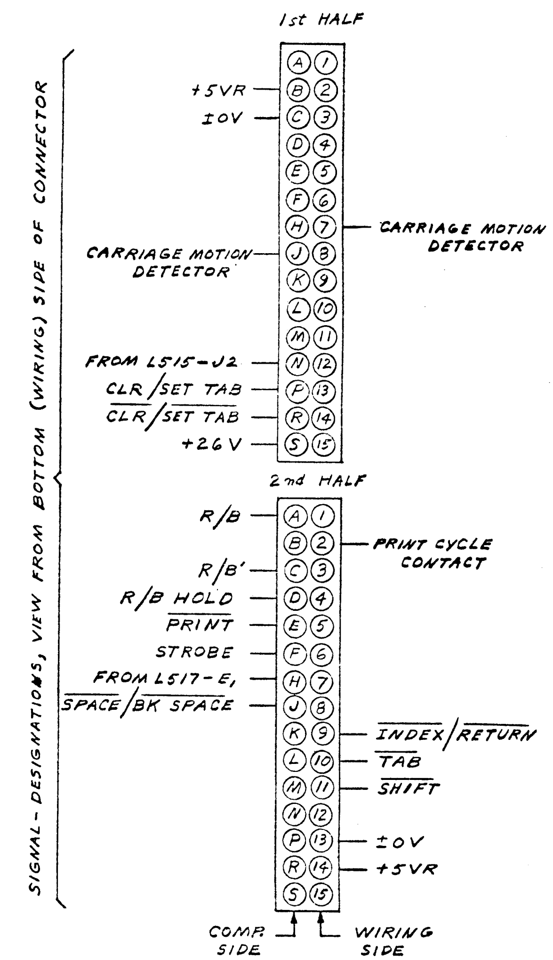


PG			
COMP.	SIZE/TYPE	WANG PART No.	QTY
R1	1K 1/4W	330-3010	6
R2	100K 1/4W	330-5010	6
R3	22K 1/4W	330-4022	6
R4	2.2K 1/4W	330-3022	6
C1	10µF	300-3006	2
	5.6µF	300-4017	2
	2.2µF	300-4014	2
D1,2,3	SIL. DIODE	380-1001	18
Q1	2N3014	375-0017	6





LOC.	TYPE	WANG PART No.	TERM. No. V_{CC}+5VR	TERM. No. ±0V	QTY
L1	9601	376-0086	14	7	1
L2,4	MC836P	376-0026	14	7	2
L3	MC846P	376-0023	14	7	1
L5	709C	376-0000	N.C.	4	1



COMPONENT	SIZE/TYPE	WANG PART No.	QTY
R5	100Ω 1/4W	330-2010	1
R6	1MEG 1/4W	330-6010	1
R7,8,11	10K 1/4W	330-4010	3
R9	1.5K 1/4W	330-3015	1
R10	22K 1/4W	330-4022	1
R12	2.2K 1/4W	330-3022	1
R15,18,19	4.7K 1/4W	330-3047	3
R16	6.8K 1/4W	330-3068	1
R17,20	15K 1/4W	330-4015	2
C2	470pF	300-1470	1
C3	1.2µF 35VDC	300-4013	1
C4,5	220pF	300-1220	2
C16	6.5µF TANT	300-4038	1
C9,10,11,12,13	.05µF	300-1300	5
C14,15	10µF 15VDC	300-3006	2
D5 THRU D23	SIL. DIODE	380-1001	19
Q2,3	2N3014	375-0017	2

NO.	REVISION	DATE	BY
1	PER ECN 2784 C9 WAS .02µF APP: SKH	1/21/72	JB
2	REVISED PER ECN #3355 APP'D SKH	11-1-72	RB
3	REVISED PER ECN 3589 APPD: SKH	7-25-73	CK

TOL. EX. AS NOTED .XX ±.010 .XXX ±.005 ANG. ±0°30' FRAC. ±1/64 FINISH: ✓

MATERIAL

FINISH

IDENT	QTY	NAME	MATERIAL	DESCRIPTION

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

DR | DATE 8/11/71

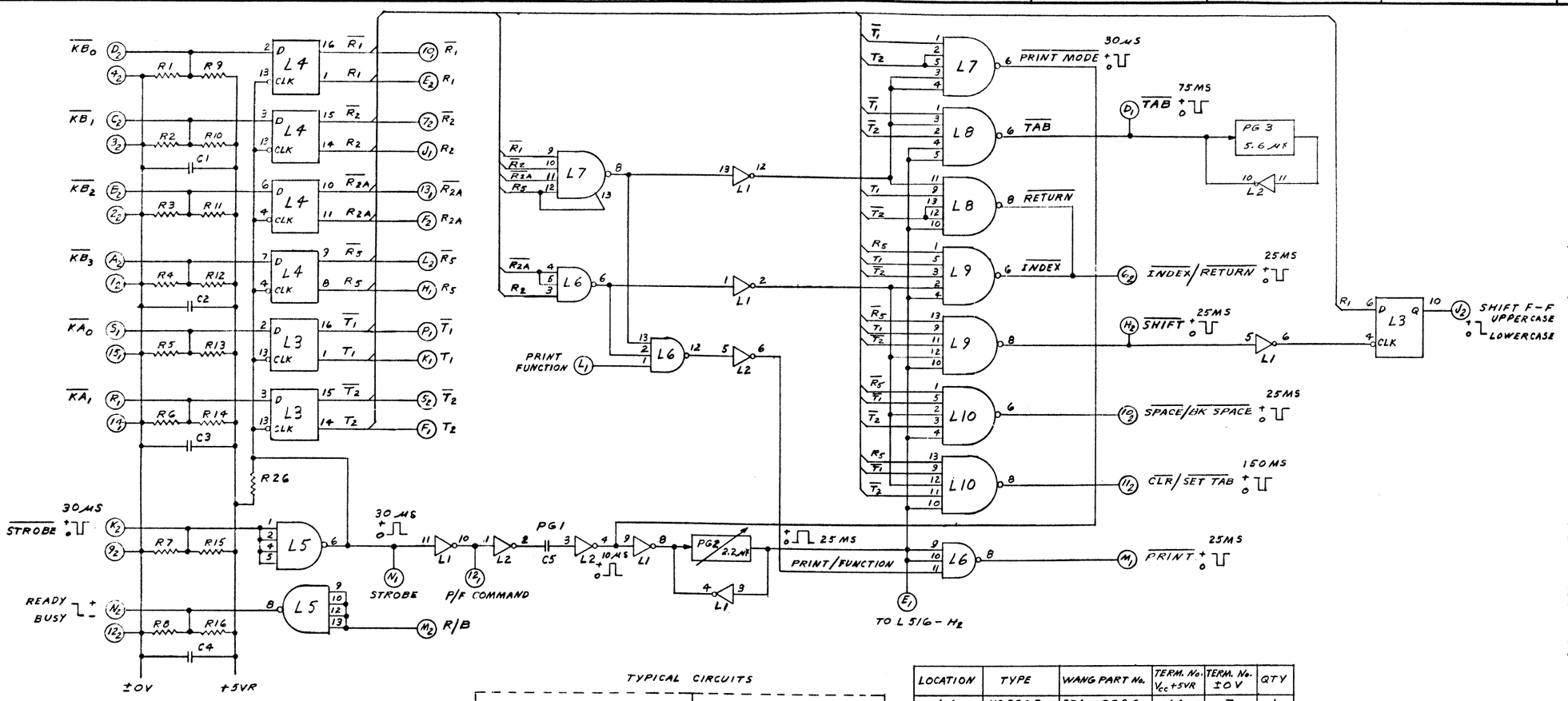
CHK | DATE

APPD | DATE 2-27-71

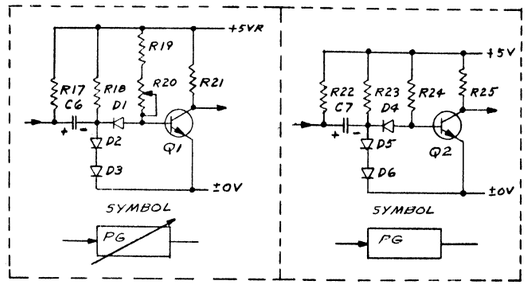
MODEL No. 711 | W.O. No. | SCALE | SHEET OF

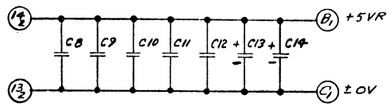
TITLE P. G. BOARD # L516

PART NUMBER | REV 3 | SIZE D | DRAWING NUMBER 6146-1

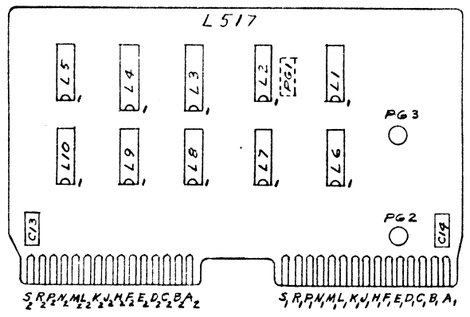


TYPICAL CIRCUITS





COMPONENT LAYOUT



LOCATION	TYPE	WANG PART No.	TERM. No. V_{cc} +5VR	TERM. No. ±0V	QTY
L1	MC836P	376-0026	14	7	1
L2	MC840P	376-0025	14	7	1
L5	MC844P	376-0024	14	7	1
L6	MC862P	376-0034	14	7	1
L7,8,9,10	MC1800P	376-0062	14	7	4
L3,4	SN7475N	376-0013	5	12	2

COMPONENT	SIZE/TYPE	WANG PART No	QTY
R1,2,3,4,5,6,7	220Ω 1/4W	330-2022	7
R8, 21, 25, 26	2.2K 1/4W	330-3022	4
R9,10,11,12,13,14,15	180Ω 1/4W	330-2018	7
R16	1.8K 1/4W	330-3018	1
R17, 22	1K 1/4W	330-3010	2
R18, 23	100K 1/4W	330-5010	2
R19	10K 1/4W	330-4010	1
R20	25K POT	336-1007	1
R24	22K 1/4W	330-4022	1
C1,2,3,4,8,9,10,11,12	.05MF	300-1900	9
C5	.002MF	300-1913	1
C6	2.2MF	300-4014	1
C7	5.6MF	300-4017	1
C13, 14	10MF 15VDC	300-3006	2
D1,2,3,4,5,6	SIL DIODE	350-1001	6
Q1, 2	2N3014	375-0017	2

REVISION	BY	DATE

IDENT	QTY	NAME	MATERIAL	DESCRIPTION
			DR RB	DATE 8/3/71
			CHK	DATE
			APPD	DATE 12-22-71

TOL. FX. AS NOTED .XX ±.010 .XXX ±.005 ANG. ±0°30' FRAC. ±1/64 FINISH: ✓

MATERIAL

FINISH

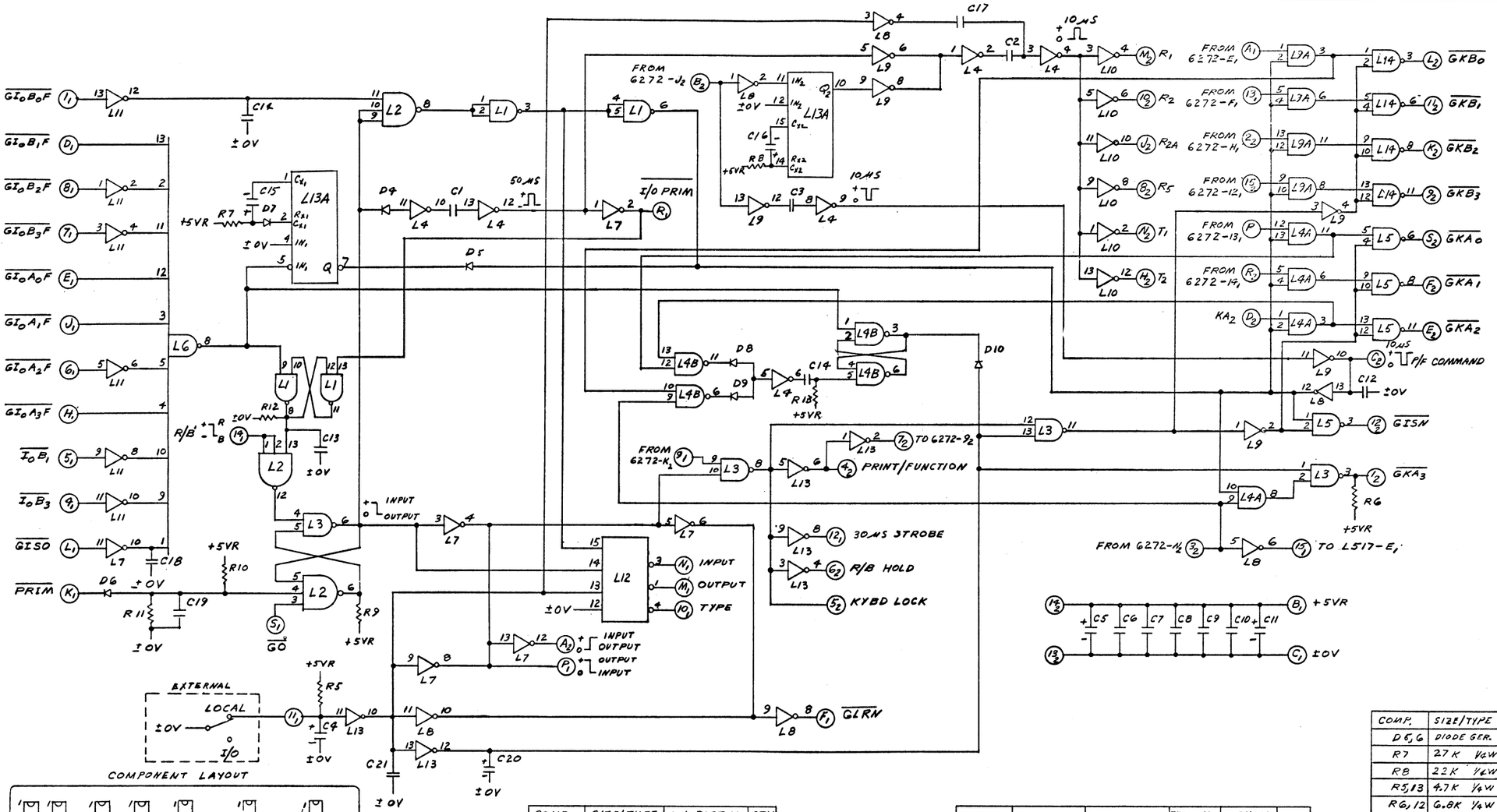
WANG LABORATORIES, INC. TEWKSBURY, MASS. U. S. A.

MODEL No. 711 | W.O. No. | SCALE NONE | SHEET OF

TITLE SCHEMATIC, LOGIBLOC INPUT LATCHES AND DECODING **L517

PART NUMBER | REV | SIZE D | DRAWING NUMBER 6147-1

DO NOT SCALE



1st HALF

FROM 6272-E1	A 1	$\overline{GI_0B_0F}$
+5VR	B 2	
±0V	C 3	
$\overline{GI_0B_1F}$	D 4	$\overline{I_0B_3}$
$\overline{GI_0A_0F}$	E 5	$\overline{I_0B_1}$
$\overline{GLRN}$	F 6	$\overline{GI_0A_2F}$
$\overline{GI_0A_3F}$	H 7	$\overline{GI_0B_3F}$
$\overline{GI_0A_1F}$	J 8	$\overline{GI_0B_2F}$
$\overline{PRIM}$	K 9	FROM 6272-K2
$\overline{GISO}$	L 10	TYPE
OUTPUT	M 11	LOCAL I/O
+ INPUT	N 12	30 MS STROBE
+ OUTPUT	P 13	FROM 6272-F1
± I/O PRIM	R 14	R/B'
$\overline{GO}$	S 15	TO L517-E1

2nd HALF

+ INPUT	A 1	$\overline{GKA_3}$
± OUTPUT	B 2	FROM 6272-H1
FROM 6272-J2	C 3	FROM 6272-N2
P/F COMMAND	D 4	PRINT/FUNCTION
KA_2	E 5	KYBD LOCK
$\overline{GKA_2}$	F 6	R/B*HOLD
$\overline{GKA_1}$	H 7	TO 6272-S2
T_2	J 8	R5
R_{2A}	K 9	$\overline{GKB_3}$
$\overline{GKB_2}$	L 10	R_2
$\overline{GKB_0}$	M 11	$\overline{GKB_1}$
R_1	N 12	$\overline{GISN}$
FROM 6272-13,	P 13	
FROM 6272-14,	R 14	
$\overline{GKA_0}$	S 15	FROM 6272-12,

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

COMP. SIDE — WIRING SIDE

COMP.	SIZE/TYPE	W.L. PART NO.	QTY
R10, 11	10K 1/4W	330-4010	2
C19	3.3 MF 15V	300-4016	1
C20	.27 MF TANT	300-4007	1
D10	DIODE GER.	380-0000	1
C21	.22 MF CER	300-1926	1

LOCATION	TYPE	WANG PART NO	TERM. NO. V_{CC} +5VR	TERM. NO ±0V	QTY
L7, 8, 9, 11, 13	MC836P	376-0026	14	7	5
L2	MC862	376-0034	14	7	1
L4B, 1, 3, 5, 14	MC846P	376-0023	14	7	5
L4	MC840P	376-0025	14	7	1
L12	SN74145N	376-0069	14	7	1
L6	MC1804P	376-0079	14	7	1
L9A, 9A	SN7409N	376-0085	14	7	2
L13A	9602	376-0104	16	8	1
L10	SN7406N	376-0055	14	7	1

COMP.	SIZE/TYPE	W.L. PART NO.	QTY
D6, 6	DIODE GER.	380-0000	2
R7	27K 1/4W	330-4027	1
R8	22K 1/4W	330-4022	1
R5, 13	4.7K 1/4W	330-3047	2
R6, 12	6.8K 1/4W	330-3068	2
C12	.001 MF	300-1906	1
C2	.002 MF	300-1913	1
C6, 7, 8, 9, 10	.05 MF	300-1900	6
C5, 11	10 MF 15V DC	300-3006	2
C1, 17	.01 MF	300-1903	2
D4, 7, 8, 9	SIL DIODE	380-1001	4
C3	.0056 MF	300-1915	1
C13, 14	680 PF	300-1680	2
C4	2.2 MF TANT	300-4014	1
C14	390 PF	300-1390	1
C15	47 MF TANT	300-4020	1
C16	5.6 MF TANT	300-4017	1
C18	380 PF	300-1380	1
R9	470Ω 1/4W	330-2041	1

NO	REVISION	BY	DATE
1	PER ECN 2998 ADDED I.C. CHIPS L4A & L9A, C5 WAS .002 MF APP. SKH	SKH	6-1-72
2	PER ECN 3018 ADDED C13: 680 PF APP: SKH	SKH	6-6-72
4	PER ECN #3169 ADDED I.C. CHIP L13A APP: SKH	SKH	9-12-72
5	PER ECN #3257 ADDED R9 470Ω APP'D SKH	SKH	9-28-72
6	PER ECN #3278 ADDED R10, 11, C19 AND DG APP: SKH	SKH	10-9-72
7	PER ECN #3320 L10 WAS 9936 APP'D SKH	SKH	10-23-72
8	REVISED PER ECN 3375 APP: D SKH	SKH	11-22-72
9	PER ECN #3435 ADDED C20 AND D10 APP'D SKH	SKH	12-18-72
10	PER ECN #3581 R7 WAS 33K ADDED C21: .22 MF APP'D SKH	SKH	7-25-73
11	PER ECN #3598 R7 WAS 47K C15 WAS 10 MF APP'D SKH	SKH	7-25-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

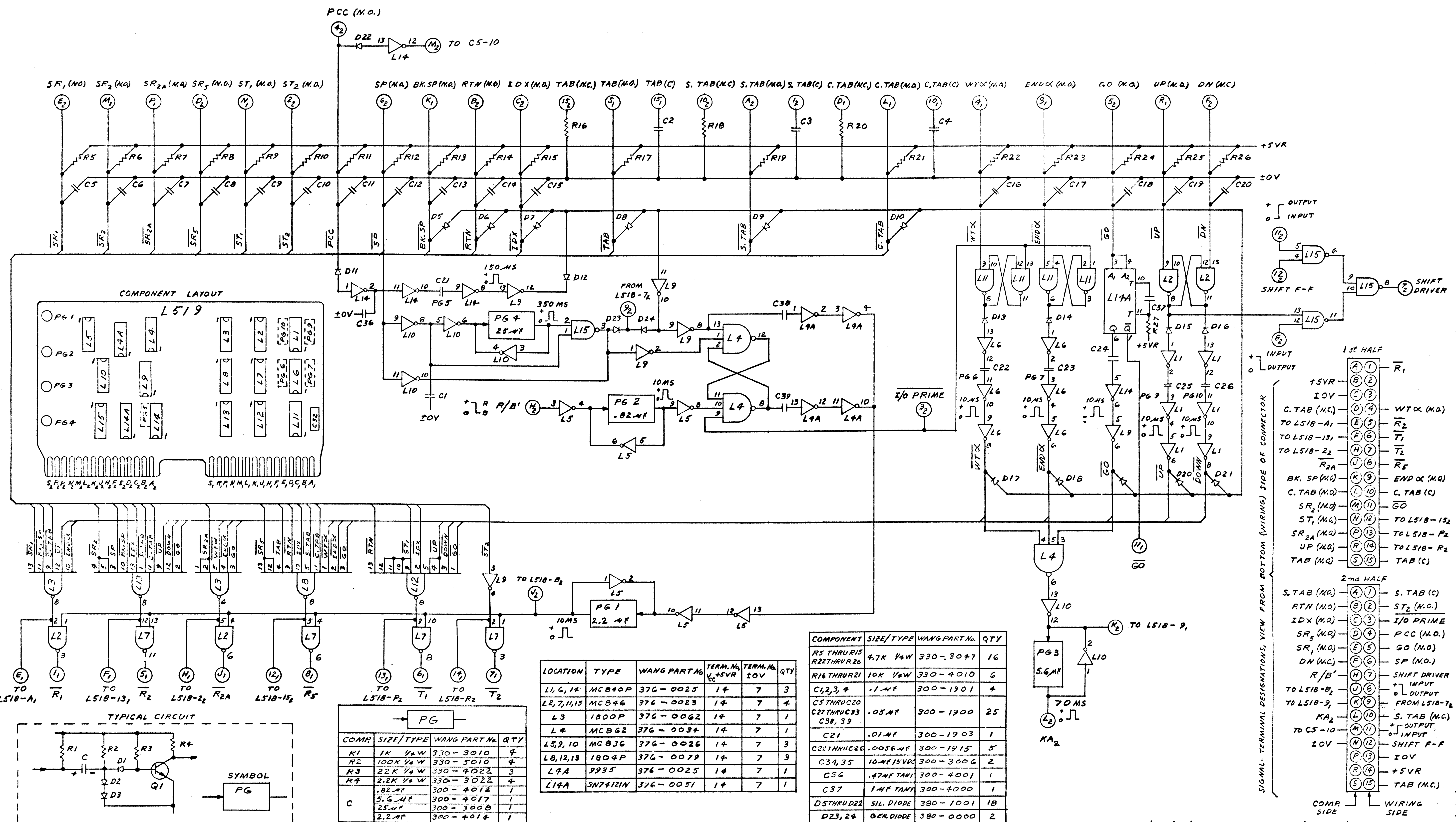
MODEL NO. 611/711 | DRAWN SS 11/1/71 | APP. | CHECKED | APP. 12-27-71

TITLE SCHEMATIC LOGIBLOC L518
GENERAL I/O INPUT SECTION

SHT OF | DWG. NO. D 6148-1 | REV. 11

D 6148-1

DO NOT SCALE

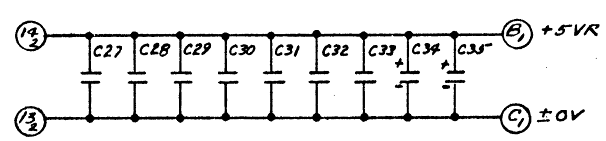


COMP.	SIZE/TYPE	WANG PART No.	QTY
R1	1K 1/4W	330-3010	4
R2	100K 1/4W	330-5010	4
R3	22K 1/4W	330-4022	3
R4	2.2K 1/4W	330-3022	4
C	.82 μF	300-4012	1
	5.6 μF	300-4017	1
	25 μF	300-3008	1
	2.2 μF	300-4014	1
D1,2,3	SIL. DIODE	380-1001	12
Q1	2N3014	375-0017	4
* R3	6.8K 1/4W	330-3068	1

* R3 FOR PG1 ONLY

LOCATION	TYPE	WANG PART No	TERM. No. V_{cc} +5VR	TERM. No. ±0V	QTY
L1, 6, 14	MC840P	376-0025	14	7	3
L2, 7, 11, 15	MC846	376-0023	14	7	4
L3	1800P	376-0062	14	7	1
L4	MC862	376-0034	14	7	1
L5, 9, 10	MC836	376-0026	14	7	3
L8, 12, 13	1804P	376-0079	14	7	3
L4A	9935	376-0025	14	7	1
L14A	SN74121N	376-0051	14	7	1

COMPONENT	SIZE/TYPE	WANG PART No.	QTY
R5 THRU R15 R22 THRU R26	4.7K 1/4W	330-3047	16
R16 THRU R21	10K 1/4W	330-4010	6
C1, 2, 3, 4	.1 μF	300-1901	4
C5 THRU C20 C27 THRU C33 C38, 39	.05 μF	300-1900	25
C21	.01 μF	300-1903	1
C22 THRU C26	.0056 μF	300-1915	5
C34, 35	10 μF 15VDC	300-3006	2
C36	.47 μF TANT	300-4001	1
C37	1 μF TANT	300-4000	1
D5 THRU D22	SIL. DIODE	380-1001	18
D23, 24	GER. DIODE	380-0000	2
R27	33K 1/4W	330-4033	1



NO.	DATE	BY	REVISION
1	2-25-72	[signature]	PER ECN 2785 DELETE ONE R3-22K ADD ONE R3-6.8K DELETE ONE C-.82 μF ADD ONE 2.2 μF APP.-SKH
2	6-2-72	[signature]	PER ECN 2908 ADDED 2 I.C.'S L4A & L14A AND CIRCUIT CHANGES. APP. SKH

IDENT	QTY	NAME	MATERIAL	DESCRIPTION

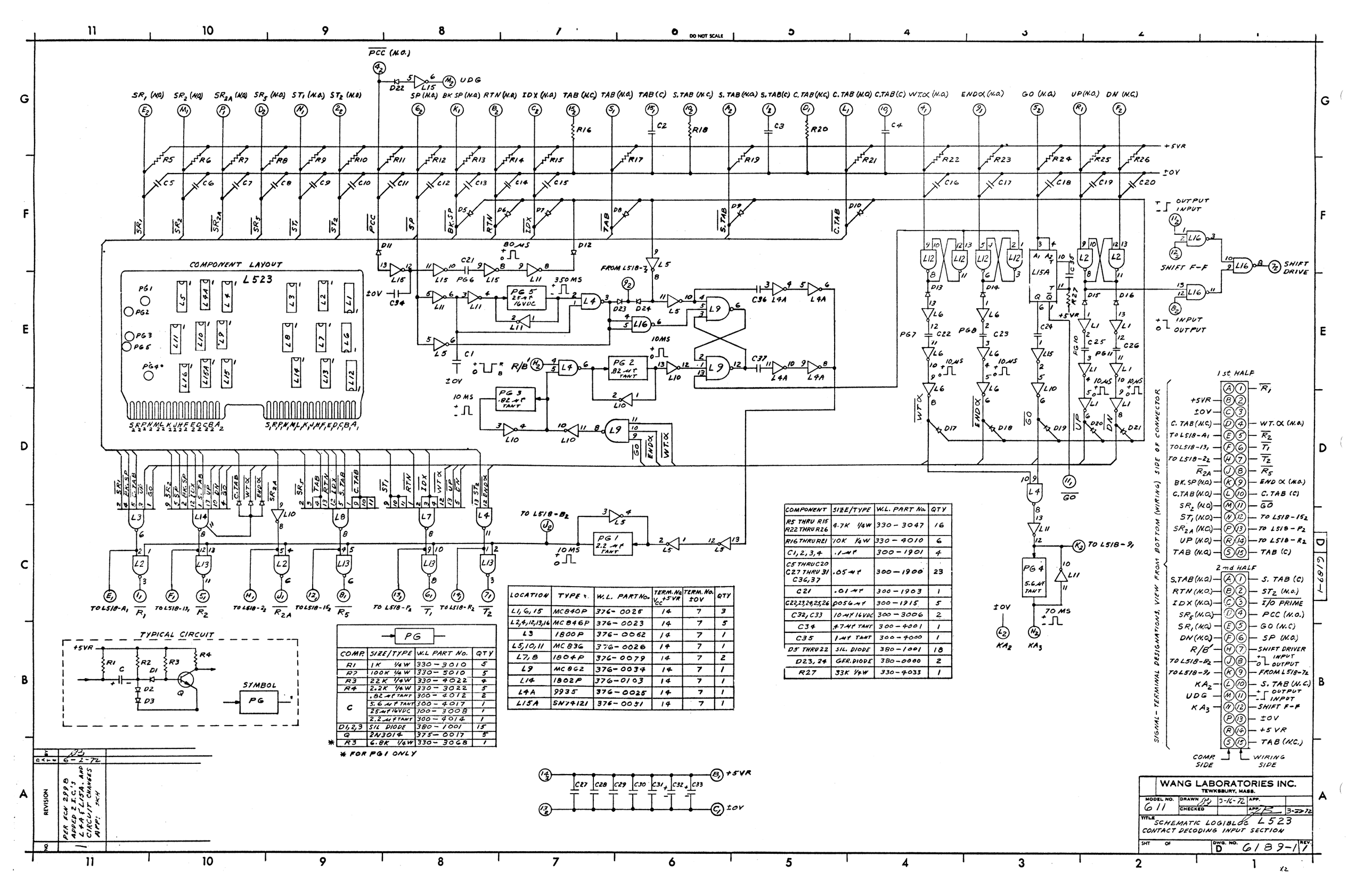
WANG LABORATORIES, INC.
TEWKSBURY, MASS. U. S. A.

DR [signature] DATE 8/25/71
CHK DATE
APPD [signature] DATE 12-27-71

MODEL No. 711 | W.O. No. | SCALE 4/1 | SHEET OF

TITLE SCHEMATIC LOGIBLOC, CONTACT DECODING SECTION L519

PART NUMBER	REV	SIZE	DRAWING NUMBER
210-L519	2	D	6149-1



COMPONENT	SIZE/TYPE	W.L. PART No.	QTY
R5 THRU R15 R22 THRU R26	4.7K 1/4W	330-3047	16
R16 THRU R21	10K 1/4W	330-4010	6
C1,2,3,4	.1 MF	300-1901	4
C5 THRU C20 C27 THRU 31 C36,37	.05 MF	300-1900	23
C21	.01 MF	300-1903	1
C22,23,24,25,26	.056 MF	300-1915	5
C32, C33	10 MF 16VDC	300-3006	2
C34	4.7 MF TANT	300-4001	1
C35	1 MF TANT	300-4000	1
D5 THRU 22	SIL. DIODE	380-1001	18
D23, 24	GER. DIODE	380-0000	2
R27	33K 1/4W	330-4033	1

LOCATION	TYPE	W.L. PART No.	TERM. No +5VR	TERM. No. ±0V	QTY
L1, 6, 15	MC840P	376-0025	14	7	3
L2,4,12,13,16	MC846P	376-0023	14	7	5
L3	1800P	376-0062	14	7	1
L5,10,11	MC836	376-0026	14	7	1
L7,8	1804P	376-0079	14	7	2
L9	MC862	376-0034	14	7	1
L14	1802P	376-0103	14	7	1
L4A	9935	376-0025	14	7	1
L15A	SN74121	376-0051	14	7	1

PG			
COMP.	SIZE/TYPE	W.L PART No.	QTY
R1	1K 1/4W	330-3010	5
R2	100K 1/4W	330-5010	5
R3	22K 1/4W	330-4022	*
R4	2.2K 1/4W	330-3022	5
C	.82 MF TANT	300-4012	2
	5.6 MF TANT	300-4017	1
	25 MF 16VDC	300-3008	1
	2.2 MF TANT	300-4014	1
D1,2,3	SIL DIODE	380-1001	15
Q	2N3014	375-0017	5
R3	6.8K 1/4W	330-3068	1

* FOR PG1 ONLY

REVISION	DATE	APP.
PER ECN 2998 ADDED 2 I.C.'S L14 & L15A, AND CIRCUIT CHANGES APP: JCH	6-1-72	

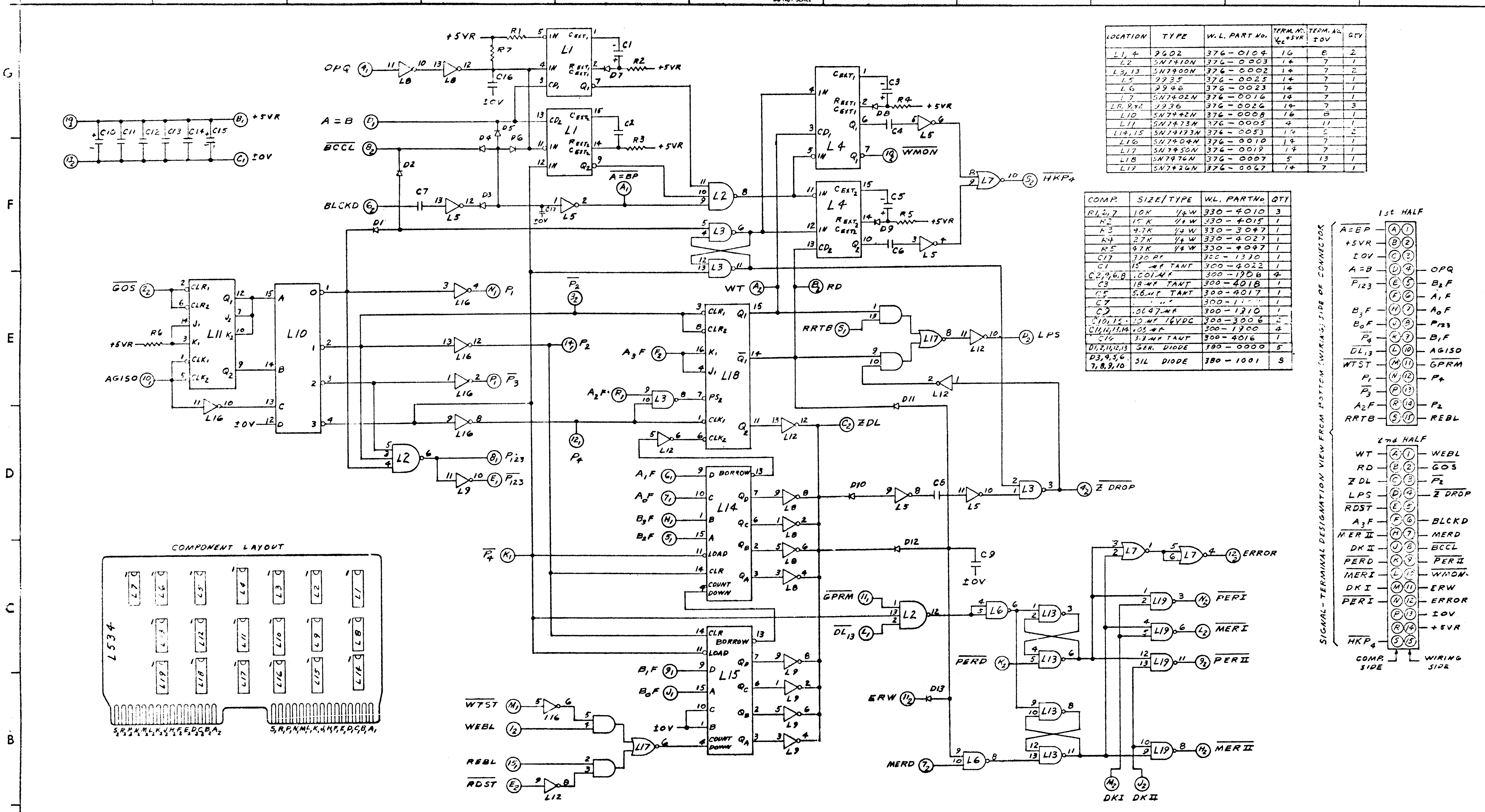
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 611 | DRAWN | 5-16-72 | APP. | CHECKED | APP. 5-22-72

TITLE SCHEMATIC LOGIBLOC L523
CONTACT DECODING INPUT SECTION

SHT OF | DWG. NO. D 6189-1 | REV. 7

6189-1



LOCATION	TYPE	W.L. PART No.	TERM. No. V_{cc} +5VR	TERM. No. ⊥0V	QTY
L1, 4	9602	376-0104	16	8	2
L2	SN7410N	376-0003	14	7	1
L3, 13	SN7400N	376-0002	14	7	2
L5	9935	376-0025	14	7	1
L6	9946	376-0023	14	7	1
L7	SN7402N	376-0016	14	7	1
L8, 9, 12	9936	376-0026	14	7	3
L10	SN7442N	376-0008	16	8	1
L11	SN7473N	376-0005	4	11	1
L14, 15	SN74193N	376-0053	16	8	2
L16	SN7404N	376-0010	14	7	1
L17	SN7450N	376-0019	14	7	1
L18	SN7476N	376-0007	5	13	1
L19	SN7426N	376-0067	14	7	1

COMP.	SIZE/TYPE	W.L. PART No.	QTY
R1, 6, 7	10K 1/4W	330-4010	3
R2	15K 1/4W	330-4015	1
R3	4.7K 1/4W	330-3047	1
R4	27K 1/4W	330-4027	1
R5	47K 1/4W	330-4047	1
C17	330 PF	300-1330	1
C1	15 μF TANT	300-4022	1
C2, 4, 6, 8	.001 μF	300-1908	4
C3	18 μF TANT	300-4018	1
C5	5.6 μF TANT	300-4017	1
C7	[illegible]	300-1[illegible]	1
C9	.0047 μF	300-1310	1
C10, 15	10 μF 16VDC	300-3006	2
C11, 12, 13, 14	.05 μF	300-1900	4
C16	3.3 μF TANT	300-4016	1
D1, 2, 11, 12, 13	GER. DIODE	380-0000	5
D3, 4, 5, 6, 7, 8, 9, 10	SIL DIODE	380-1001	8

REVISION: 1 — REVISED PER ECN #3235 ADD'D FN

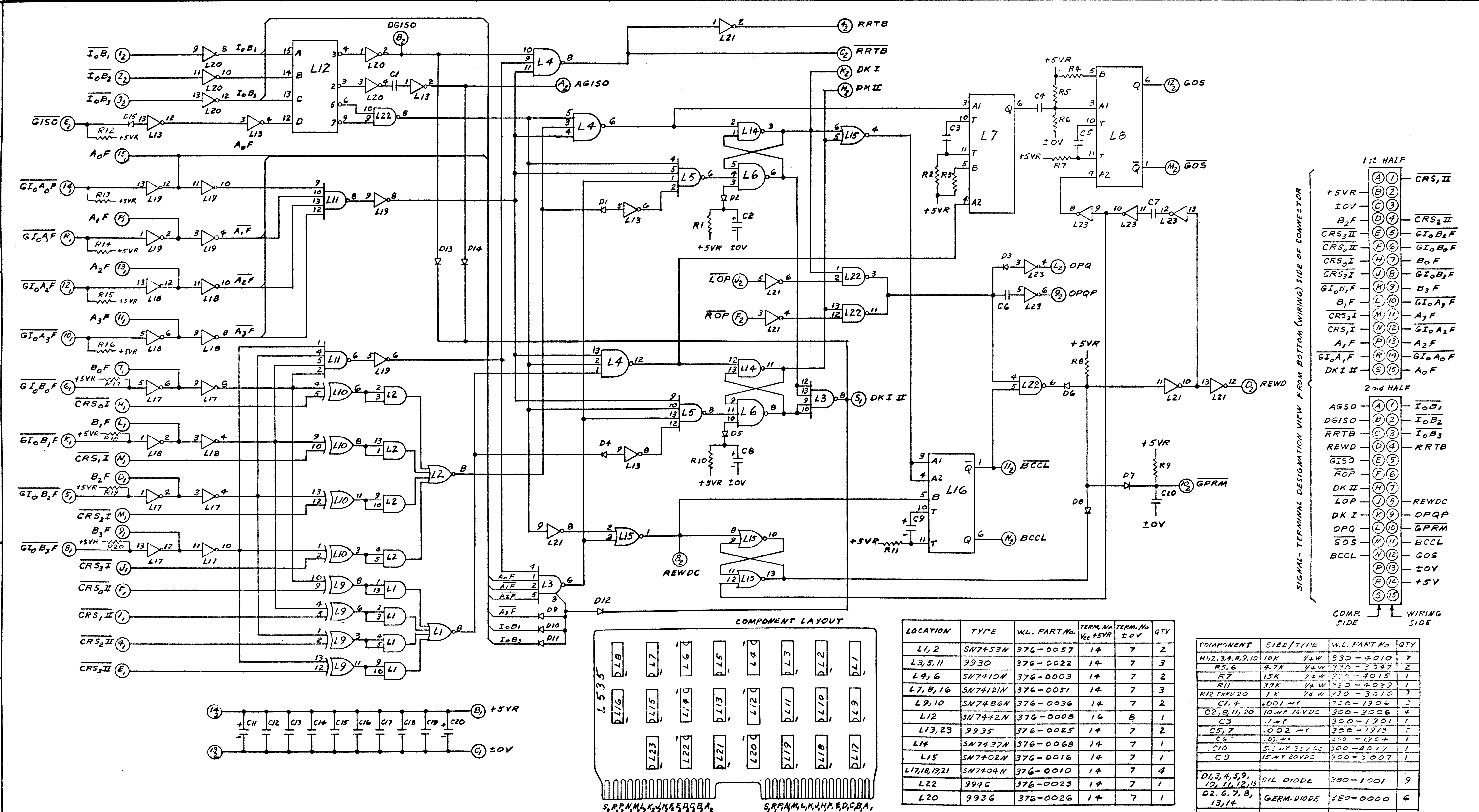
210-
510-L534.

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
709	[illegible]	2/14/72	SKH	5/15/72
	CHECKED KT	5/11/72	APP.	

TITLE: SCHEMATIC LOGIBLOC L534 CONTROL UNIT I

SHT OF | DWG. NO. D 6196-1 | REV. 1



LOCATION	TYPE	W.L. PART No.	TERM. No. Vcc +5VR	TERM. No ±OV	QTY
L1, 2	SN7453N	376-0057	14	7	2
L3, 5, 11	9930	376-0022	14	7	3
L4, 6	SN7410N	376-0003	14	7	2
L7, 8, 16	SN74121N	376-0051	14	7	3
L9, 10	SN7486N	376-0036	14	7	2
L12	SN7442N	376-0008	16	8	1
L13, 23	9935	376-0025	14	7	2
L14	SN7437N	376-0068	14	7	1
L15	SN7402N	376-0016	14	7	1
L17, 18, 19, 21	SN7404N	376-0010	14	7	4
L22	9946	376-0023	14	7	1
L20	9936	376-0026	14	7	1

COMPONENT	SIZE/TYPE	W.L. PART No	QTY
R1, 2, 3, 4, 8, 9, 10	10K 1/4W	330-4010	7
R5, 6	4.7K 1/4W	330-3047	2
R7	15K 1/4W	330-4015	1
R11	39K 1/4W	330-4039	1
R12 THRU 20	1K 1/4W	330-3010	9
C1, 4	.001 μf	300-1906	2
C2, 8, 11, 20	10 μf 16VDC	300-3006	4
C3	.1 μf	300-1901	1
C5, 7	.002 μf	300-1913	2
C6	.02 μf	300-1904	1
C10	5.6 μf 35VDC	300-4017	1
C9	15 μf 20VDC	300-3007	1
D1, 3, 4, 5, 9, 10, 11, 12, 15	SIL DIODE	380-1001	9
D2, 6, 7, 8, 13, 14	GERM. DIODE	380-0000	6
C12 THRU C19, 6	.02 μf	300-1904	9

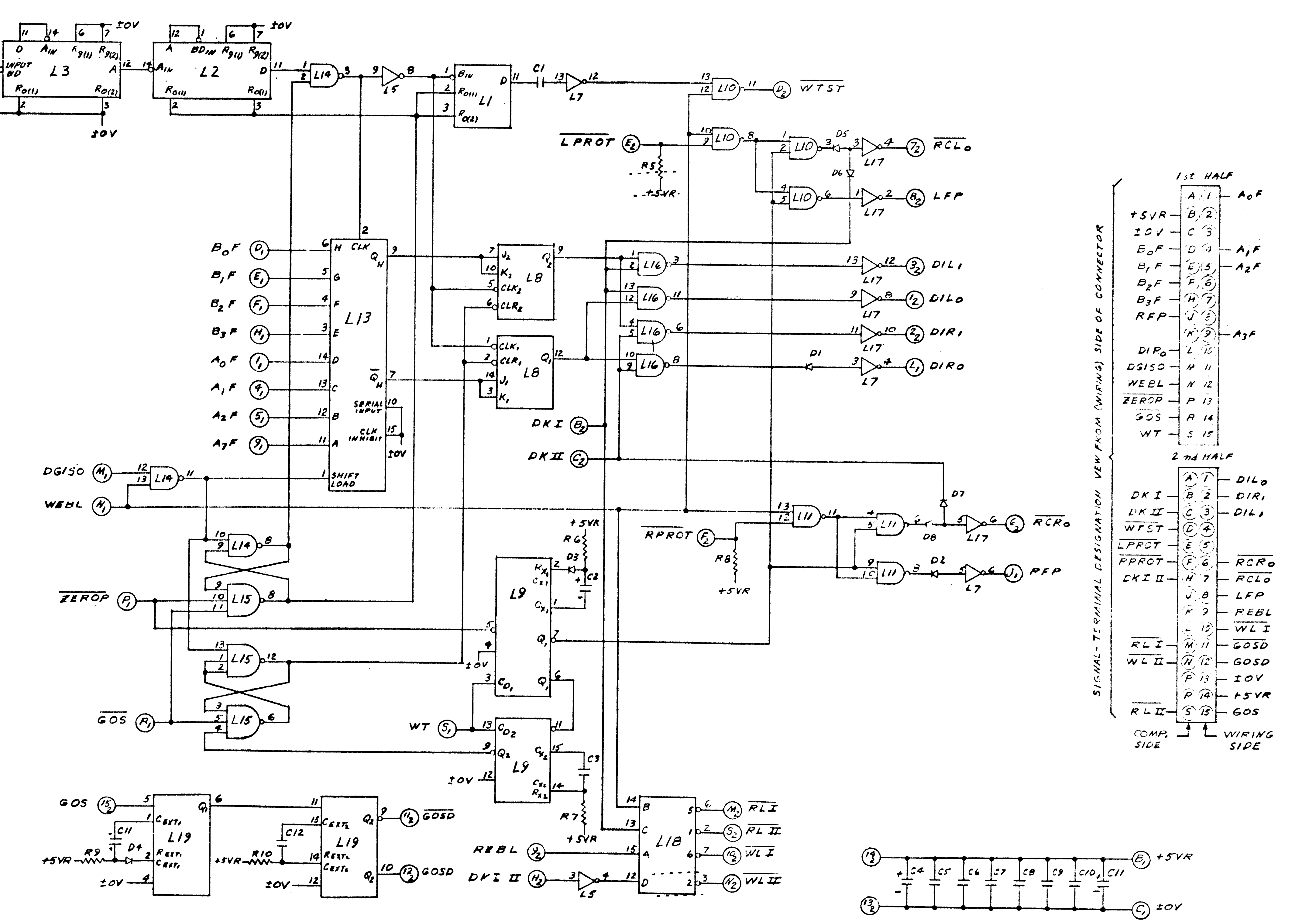
NO	1	2	3	4	5	6
REVISION	PER ECN 2894 ADDED 2 DIODES BETWEEN (A2) AND (F2) L20 WAS 7404 APP	PER ECN 2908 ADDED DIODE TO PIN 3 OF L3 AND (S1) APP	PER ECN 3020 C12 THRU C19 WAS .05 μf APP'D	PER ECN 3099 C10 WAS .02 μf APP'D	PER ECN #3198 C10 WAS 5 μf APP'D	REVISED PER ECN #3234 APP'D
DATE	5-5-72	5-5-72	6-16-72	7/31/72	9-1-72	9-27-72

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 709 — DRAWN 1/14/72 — CHECKED 5/14/72 — APP. 5/15/72

TITLE: SCHEMATIC LOGIBLOC CHANNEL SELECT UNIT #L535

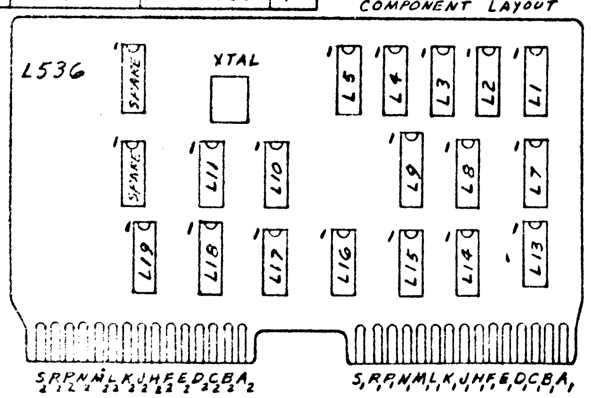
DWG. NO. D 6186-1



LOCATION	TYPE	W.L. PART No.	TERM. No. V_{CC} +5VR	TERM. No. ±OV	QTY
L1	SN7493N	376-0011	5	10	1
L2,3,4	SN7490N	376-0073	5	10	3
L5	SN7404N	376-0010	14	7	1
L7	9935	376-0025	14	7	1
L8	SN7473N	376-0005	4	11	1
L9	9602	376-0104	16	8	1
L10,11,14,16	9946	376-0023	14	7	4
L13	SN74165N	376-0105	16	8	1
L15	SN7410N	376-0003	14	7	1
L17	9936	376-0026	14	7	1
L18	SN7445N	376-0032	16	8	1
L19	9602	376-0104	16	8	1

COMP.	SIZE/TYPE	W.L. PART No.	QTY
R1	180 Ω 1/4W	330-2018	1
R2	68K 1/4W	330-3018	1
R3, 4	220 Ω 1/4W	330-2022	2
R5, 6	10K 1/4W	330-4010	2
R6,10	27K 1/4W	330-4027	2
R7	47K 1/4W	330-4047	1
R9	18K 1/4W	330-4018	1
C1	.001 μF	300-1906	1
C4,11	10 μF 16VDC	300-3006	2
C3	470 PF	300-1470	1
C5,6,7,8,9,10	.05 μF	300-1900	6
C11	47 μF TANT.	300-4020	1
C12	.002 μF	300-1913	1
D1,2,3,4	SIL DIODE	380-1001	4
XTAL	4 MHZ	321-0011	1
C2	15 μF TANT.	300-4022	1
C13	47 PF	300-1047	1
D5,6,7,8	GER. DIODE	380-[illegible]	4

COMPONENT LAYOUT



REVISION: PER ECN 3062 ADDED 4 DIODES D5,6,7,8

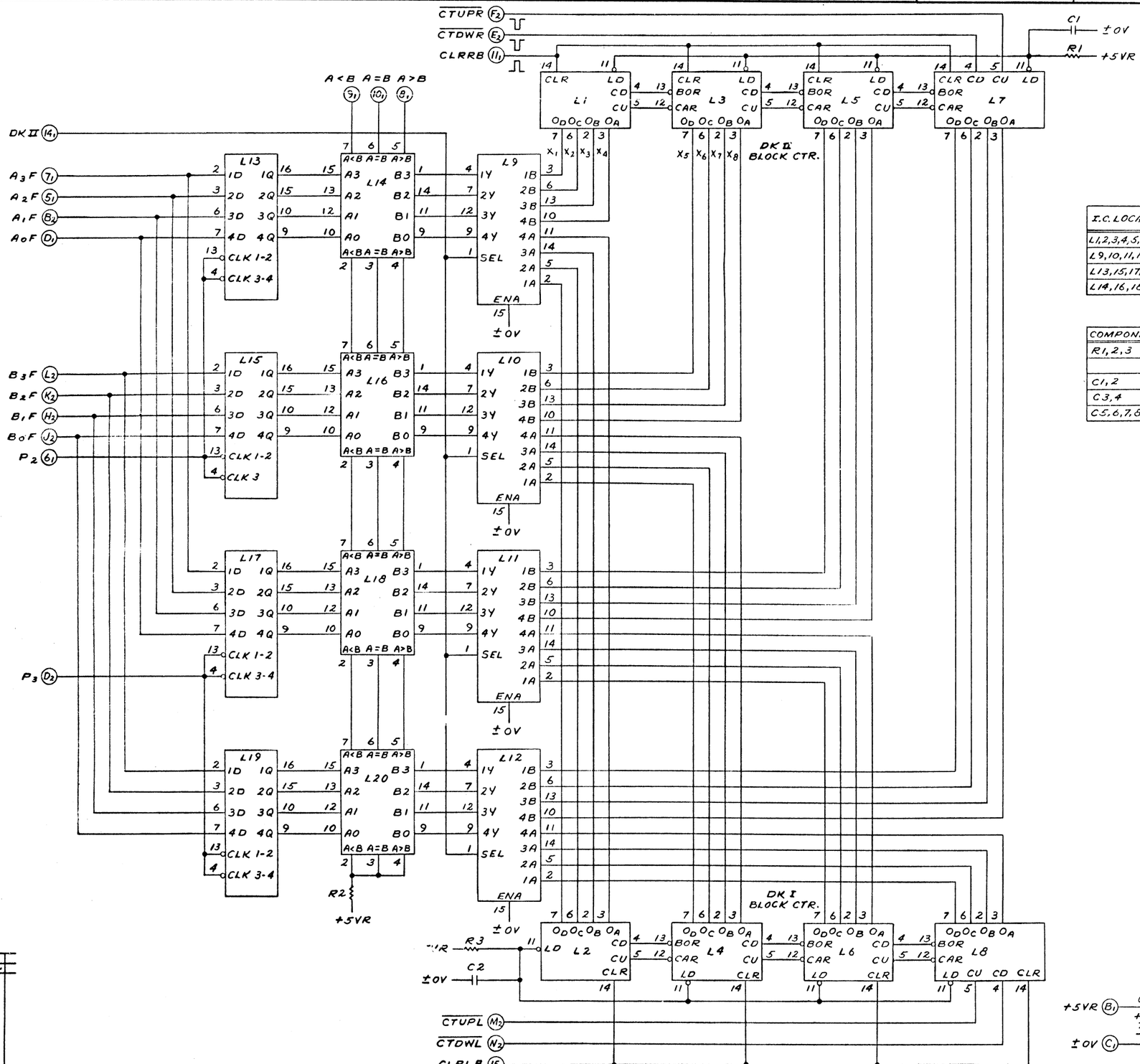
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 707 | DRAWN 3/13/72 | CHECKED 3/10/72

TITLE: SCHEMATIC LOGIBLOC # L536 TAPE WRITE UNIT

DWG. NO. D 6180-1 | REV 1

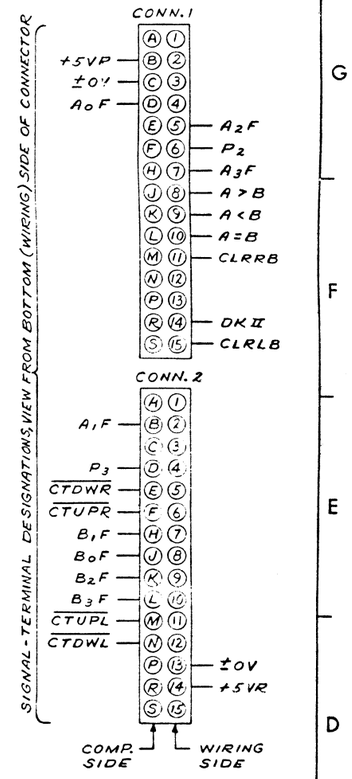
DO NOT SCALE



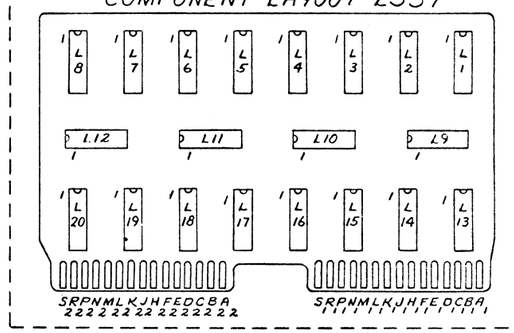
I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1,2,3,4,5,6,7,8	SN74193N	376-0053	8	16	8
L9,10,11,12	SN7415 7N	376-0082	8	16	4
L13,15,17,19	SN7475N	376-0013	12	5	4
L14,16,18,20	SN7485N	376-0087	8	16	4

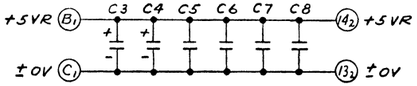
COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1,2,3	10K 1/4W	330-4010	3
C1,2	.001µf 200V	300-1906	2
C3,4	10µf 15V	300-3006	2
C5,6,7,8	.01µf 25V	300-1903	4

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



COMPONENT LAYOUT L537

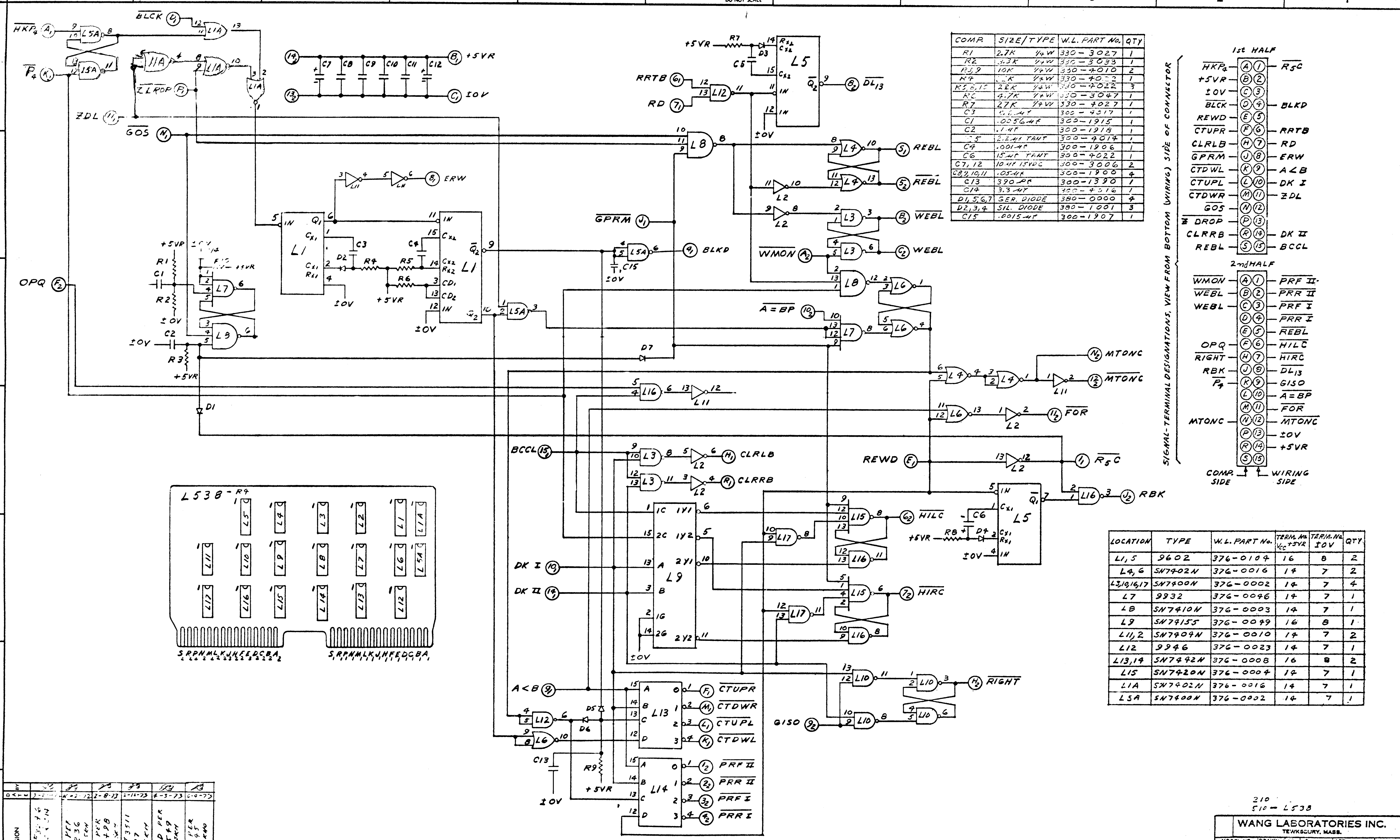




WANG LABORATORIES INC. TEWKSBURY, MASS.				
MODEL NO. 709	DRAWN F.S.S. 3-17-72	APP.	5/16/72	
	CHECKED	5-1-72	APP.	
TITLE: SCHEMATIC LOGIBLOC # L537 BLOCK COUNTER & COMPARATOR UNIT				
SHT 1 OF 1	DWG. NO. D 6190-1		REV.	

D 6190

DATE	REVISION	NO.



COMP.	SIZE/TYPE	W.L. PART No.	QTY
R1	2.7K 1/4W	330-3027	1
R2	3.3K 1/4W	330-3033	1
R3,9	10K 1/4W	330-4010	2
R4	[illegible]K 1/4W	330-40[illegible]	1
R5,6,1[illegible]	22K 1/4W	330-4022	3
R[illegible]	4.7K 1/4W	330-3047	1
R7	27K 1/4W	330-4027	1
C3	[illegible]	300-4017	1
C1	.0056μF	300-1915	1
C2	.1μF	300-1918	1
[illegible]5	2.2μF TANT	300-4014	1
C4	.001μF	300-1906	1
C6	15μF TANT	300-4022	1
C7, 12	10μF 15VDC	300-3006	2
C8,9,10,11	.05μF	300-1900	4
C13	390pF	300-1390	1
C14	3.3μF	300-4016	1
D1,5,6,7	GER. DIODE	380-0000	4
D2,3,4	SIL. DIODE	380-1001	3
C15	.0015μF	300-1907	1

LOCATION	TYPE	W.L. PART No.	TERM. No. Vcc +5VR	TERM. No. ±0V	QTY
L1, 5	9602	376-0104	16	8	2
L4, 6	SN7402N	376-0016	14	7	2
L3,10,16,17	SN7400N	376-0002	14	7	4
L7	9932	376-0046	14	7	1
L8	SN7410N	376-0003	14	7	1
L9	SN74155	376-0049	16	8	1
L11, 2	SN7409N	376-0010	14	7	2
L12	9946	376-0023	14	7	1
L13, 14	SN7442N	376-0008	16	8	2
L15	SN7420N	376-0004	14	7	1
L1A	SN7402N	376-0016	14	7	1
L5A	SN7400N	376-0002	14	7	1

210
510 – L538

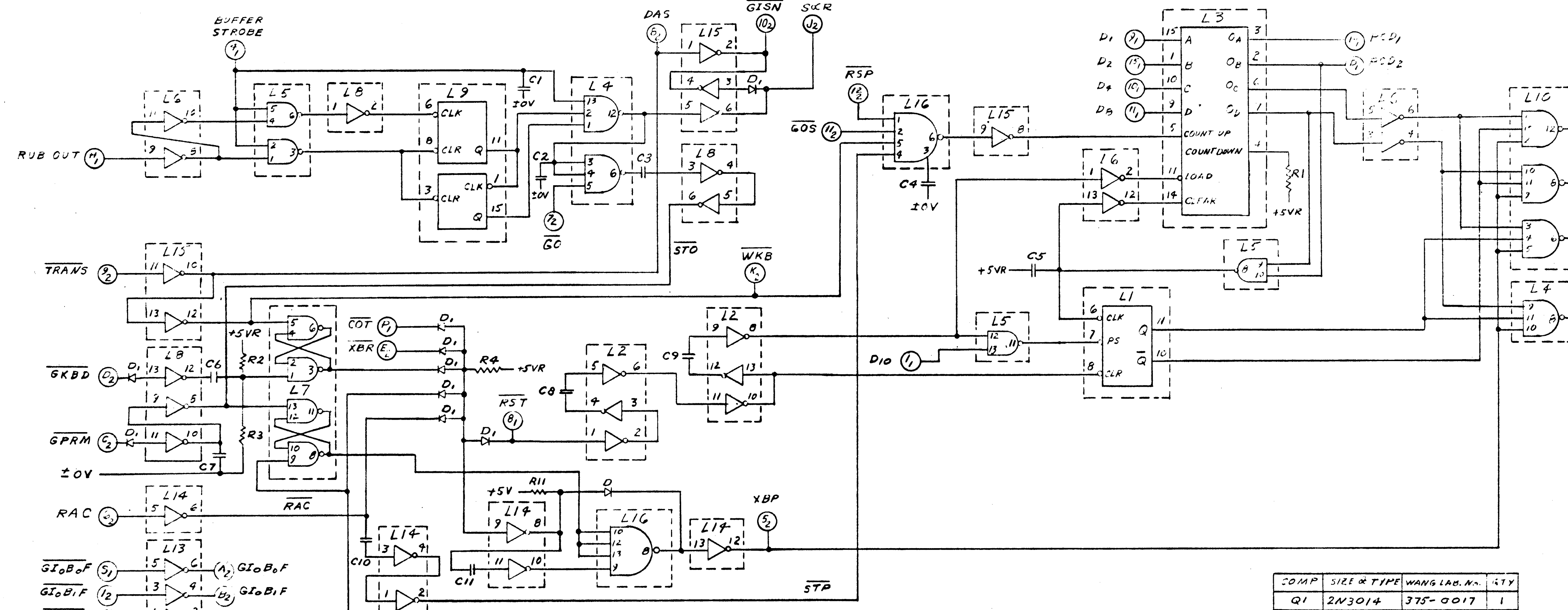
WANG LABORATORIES INC.
TEWKSBURY, MASS.

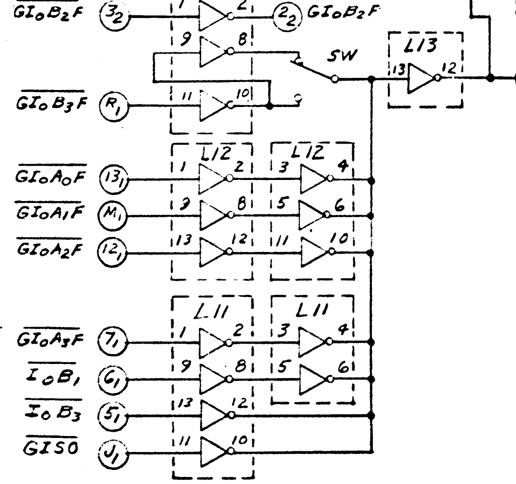
MODEL NO.	DRAWN		APP.	
709		4-10-72	SKH	5/15/72
	CHECKED	5/11/72	APP.	

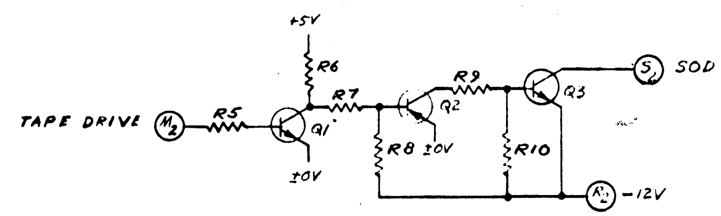
TITLE: SCHEMATIC LOGIBLOC L538 CONTROL UNIT II

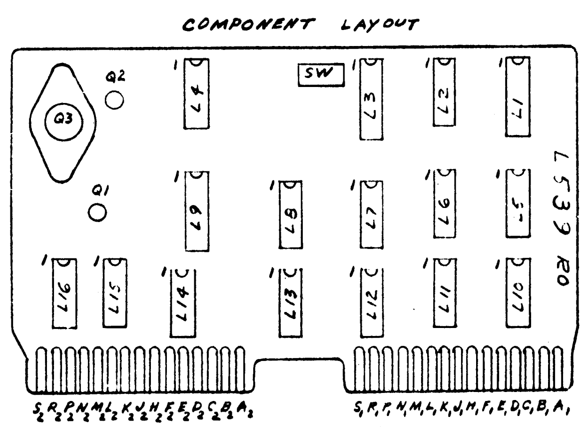
SHT OF — DWG. NO. D 6198-1

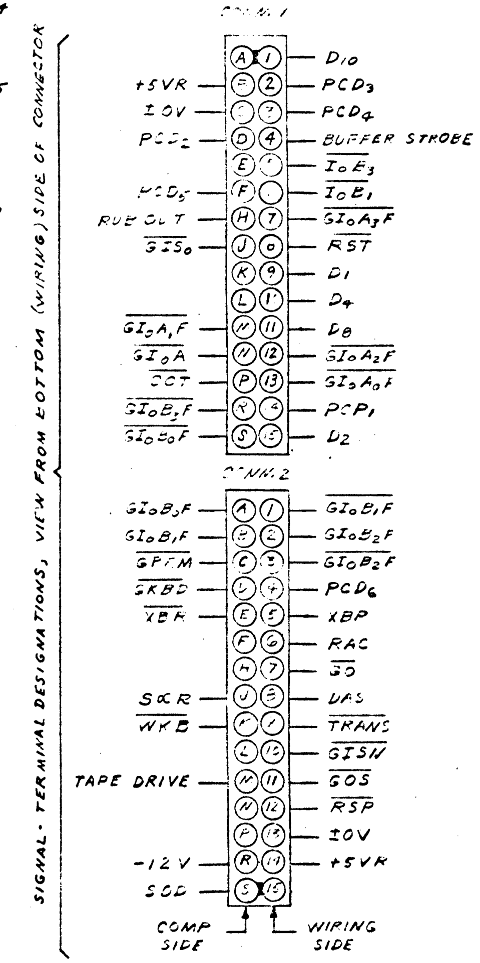
DO NOT SCALE

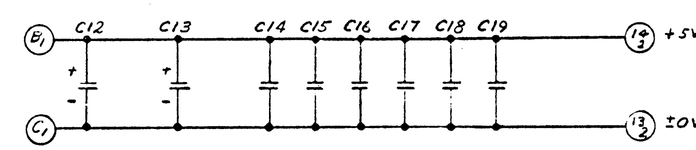












COMP	SIZE & TYPE	WANG LAB. No.	QTY
Q1	2N3014	375-0017	1
Q2	GT544	375-1017	1
Q3	40250	375-1022	1

LOCATION	TYPE	WANG LAB. No.	TERM. No. Vcc +5VR	TERM. No. ±OV	QTY
L5, 7	SN7400N	376-0002	14	7	2
L4, 10	SN7410N	376-0003	14	7	2
L1, 9	SN7476N	376-0007	5	13	2
L3	SN74193N	376-0053	16	8	1
L2, 6, 8, 14, 15	9935	376-0025	14	7	5
L16	9944	376-0024	14	7	1
L11, 12, 13	9936	376-0026	14	7	3

COMPONENT	TYPE, SIZE	W.L. NO.	QTY.
R1,4,6	1K 1/4W	330-3010	3
R2,3,8	10K 1/4W	330-4010	3
R5	8.2K 1/4W	330-3082	1
R7,10,11	2.2K 1/4W	330-3022	3
R9	220Ω 1/2W	331-2022	1
C1,2,7	.01uf 25V	300-1903	3
C3	.003uf 100V	300-1905	1
C4	390uuf CER.	300-1390	1
C5,8,9,10	.001uf 200V	300-1906	4
C6	.002uf 200V	300-1913	1
C11	.0068uf 100V	300-2068	1
C12,13	10uf 15V	300-3006	2
C14,15,16,17,18,19	.05 12V	300-19[illegible]	6
D1	DIODE SIL.	380-1001	9
D2	DIODE GER.	380-0000	1
SW.	SL. SW SPDT.	325-2104	1

NO	REVISION	DATE	BY
1	REVISED PER ECN #3405 APPD. SKH	12/72	F.S.S.
2	REVISED PER ECN #3615 APPD. SKH	25/73	EK
3	REVISED PER ECN #3[illegible] APPD. SKH	11/73	F.S.S.
4	REVISED PER E.C.#3903 APPD. SKH	16/73	F.S.S.

IDENT	QTY	NAME	MATERIAL	DESCRIPTION

TOL. EX. AS NOTED .XX ±.010 .XXX ±.005 ANG. ±0°30' FRAC. ±1/64 FINISH: ✓

MATERIAL

FINISH

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

DR F.S.S. DATE 3-17-72
CHK DATE
APPD G.T.C. DATE 11/9/72

MODEL No. 603/703 W.O. No. SCALE [illegible] SHEET 1 OF 1

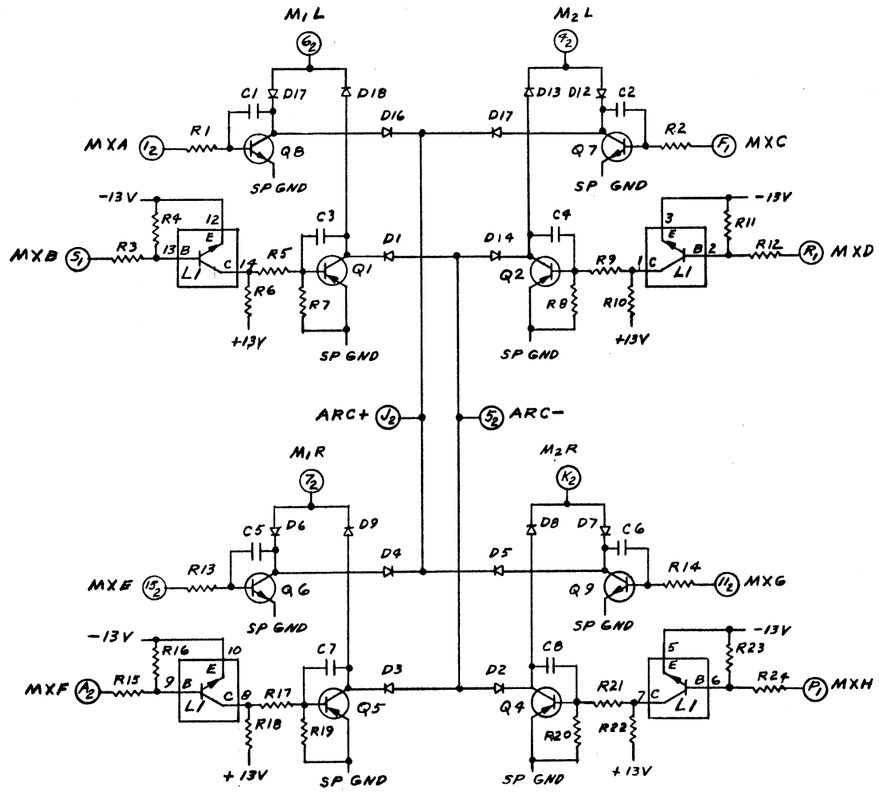
TITLE SCHEMATIC LOGIBLOC, TAPE READER # L539

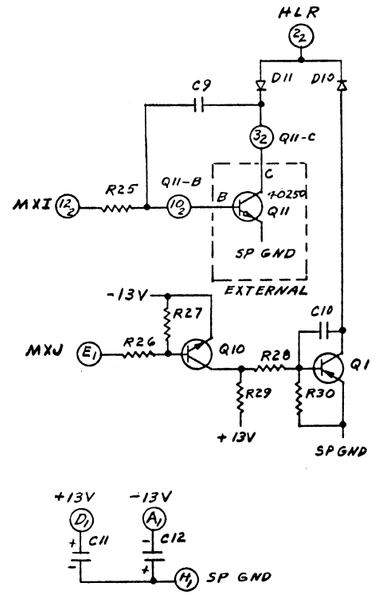
PART NUMBER	REV	SIZE	DRAWING NUMBER
	4	D	6191

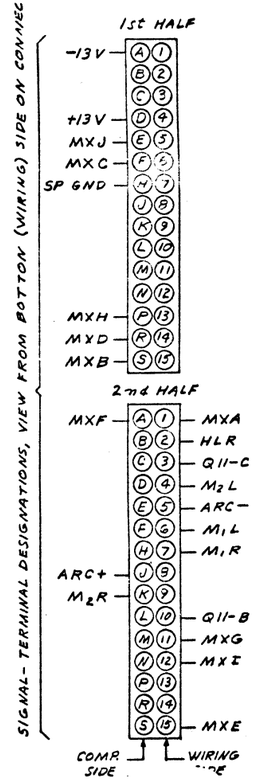
D 6191

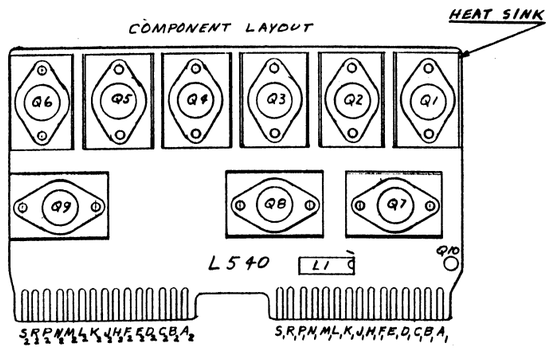
COMPONENT	SIZE/TYPE	W.L. PART No	QTY
R1, 2, 13, 14, 25	100 Ω ¼W	330-2010	5
R3, 12, 15, 24, 26	1.2K ¼W	330-3012	5
R4, 11, 16, 23, 27	47K ¼W	330-4047	5
R5, 9, 17, 21, 28	150 Ω ¼W	330-2015	5
R6, 10, 18, 22, 29	10K ¼W	330-4010	5
R7, 8, 19, 20, 30	1K ¼W	330-3010	5
C1 THRU 10	.1MF 100V	300-2210	10
C11, 12	15MF 15VDC	300-9007	2
D1 THRU 18	EM403	380-4000	18
Q1, 2, 3, 4, 5	2N5954	375-1032	5
Q6, 7, 8, 9	40250 V1	375-1028	4
Q10	CORE DRIVER	375-1005	1

LOCATION	TYPE	W.L. PART No	QTY
L1	FPQ3725	376-0106	1









REV.	BY	DATE	REVISION	NO.

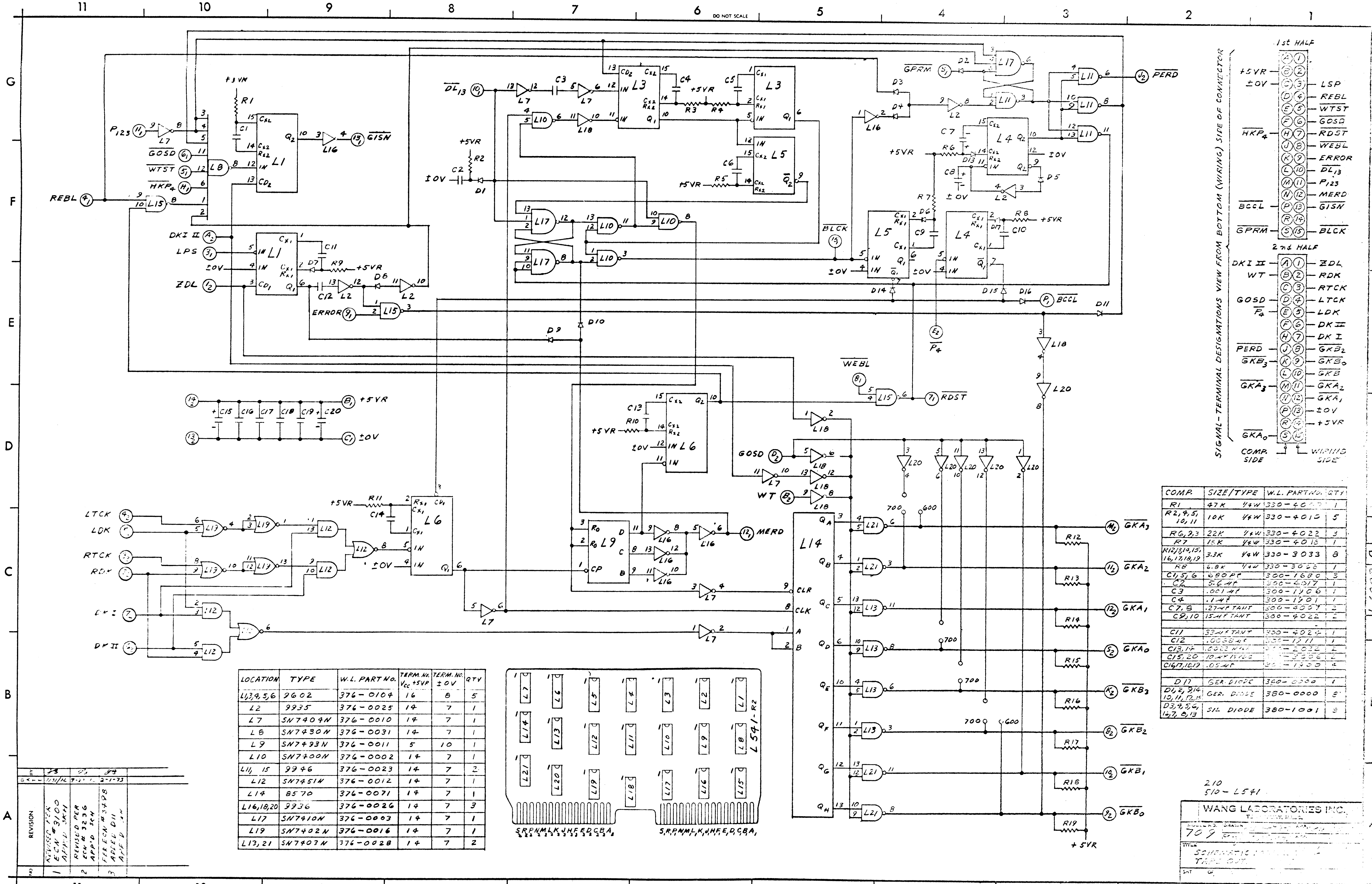
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	DATE	APP.	DATE
709	CHECKED	5/11/72	APP.	

TITLE: SCHEMATIC LOGIBLOC L540 MOTOR CONTROL

SHT OF | DWG. NO. D 6199-1 | REV. X0

6199-1 D



LOCATION	TYPE	W.L. PART No.	TERM. No. V_{cc} +5VR	TERM. No. ±0V	QTY
L1,3,4,5,6	9602	376-0104	16	8	5
L2	9935	376-0025	14	7	1
L7	SN7404N	376-0010	14	7	1
L8	SN7430N	376-0031	14	7	1
L9	SN7493N	376-0011	5	10	1
L10	SN7400N	376-0002	14	7	1
L11, 15	9946	376-0023	14	7	2
L12	SN7451N	376-0012	14	7	1
L14	8570	376-0071	14	7	1
L16,18,20	9936	376-0026	14	7	3
L17	SN7410N	376-0003	14	7	1
L19	SN7402N	376-0016	14	7	1
L13, 21	SN7403N	376-0028	14	7	2

COMP.	SIZE/TYPE	W.L. PART NO.	QTY
R1	47K 1/4W	330-40[illegible]	1
R2,4,5, 10,11	10K 1/4W	330-4010	5
R6,9,3	22K 1/4W	330-4022	3
R7	15K 1/4W	330-4015	1
R12,13,14,15, 16,17,18,19	3.3K 1/4W	330-3033	8
R8	6.8K 1/4W	330-3068	1
C1,5,6	680PF	300-1680	3
C2	5.6μf	300-4017	1
C3	.001μf	300-1906	1
C4	.1μf	300-1901	1
C7,8	.27μf TANT	300-4007	2
C9,10	15μf TANT	300-4022	2
C11	33μf TANT	330-4024	1
C12	.0068μf	300-1911	1
C13,14	.0022 [illegible]	[illegible]-2022	2
C15,20	10μf [illegible]	[illegible]-3006	2
C16,17,18,19	.05μf	[illegible]-1900	4
D17	GER. DIODE	360-0300	1
D1,2,9,14 10,11,12,15	GER. DIODE	380-0000	8
D3,4,5,6, 16,7,8,13	SIL DIODE	380-1001	8

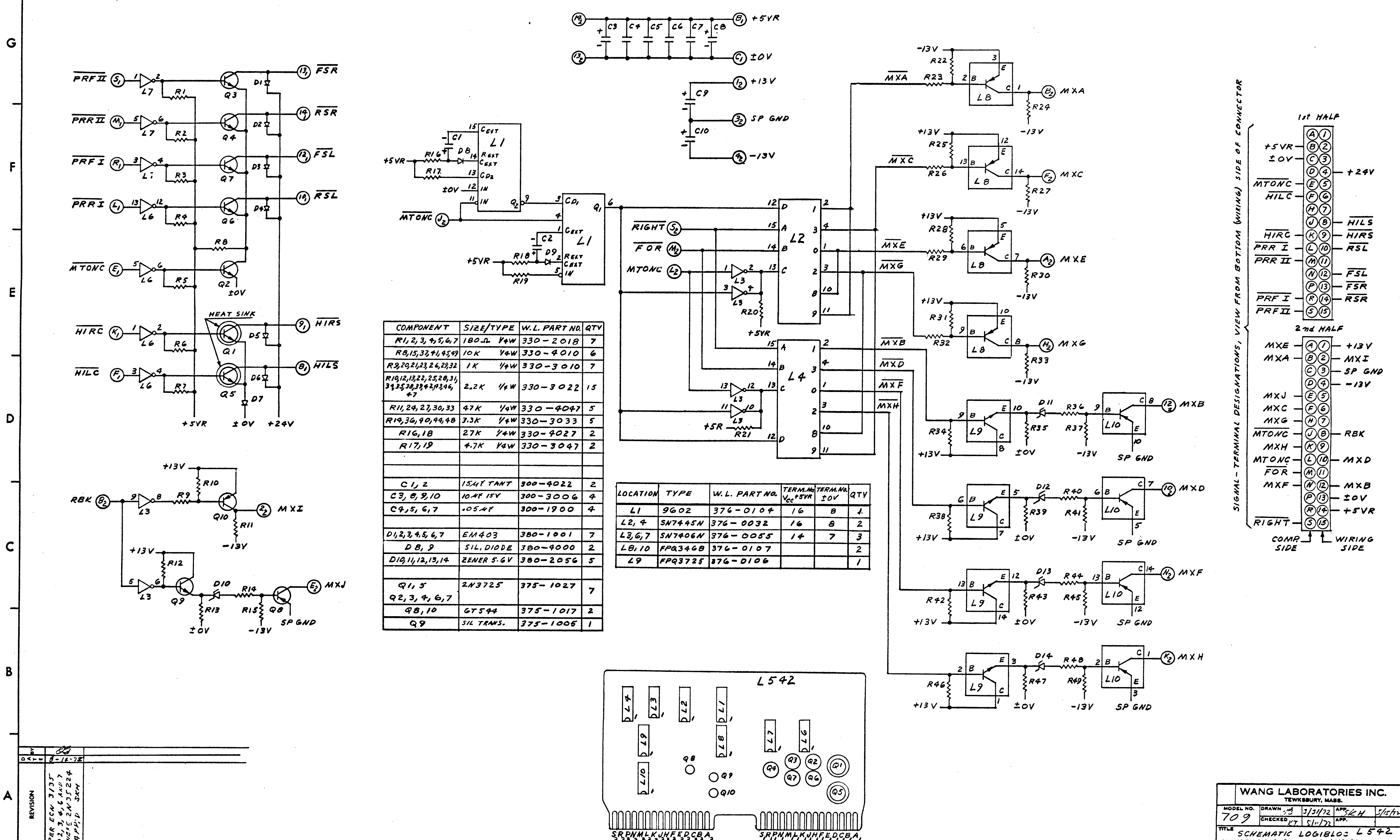
210
510-L541

WANG LABORATORIES INC.

MODEL NO. 709

TITLE: SCHEMATIC [illegible] TAPE OUT

SHT OF



COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY
R1, 2, 3, 4, 5, 6, 7	180Ω 1/4W	330-2018	7
R8, 15, 37, 41, 45, 49	10K 1/4W	330-4010	6
R9, 20, 21, 23, 26, 29, 32	1K 1/4W	330-3010	7
R10, 12, 13, 22, 25, 28, 31, 34, 35, 38, 39, 42, 43, 46, 47	2.2K 1/4W	330-3022	15
R11, 24, 27, 30, 33	47K 1/4W	330-4047	5
R14, 36, 40, 44, 48	3.3K 1/4W	330-3033	5
R16, 18	27K 1/4W	330-4027	2
R17, 19	4.7K 1/4W	330-3047	2
C1, 2	15μf TANT	300-4022	2
C3, 8, 9, 10	10μf 15V	300-3006	4
C4, 5, 6, 7	.05μf	300-1900	4
D1, 2, 3, 4, 5, 6, 7	EM403	380-1001	7
D8, 9	SIL. DIODE	380-4000	2
D10, 11, 12, 13, 14	ZENER 5.6V	380-2056	5
Q1, 5 Q2, 3, 4, 6, 7	2N3725	375-1027	7
Q8, 10	GT544	375-1017	2
Q9	SIL TRANS.	375-1006	1

LOCATION	TYPE	W.L. PART NO.	TERM. NO. V_{cc} +5VR	TERM. NO. ±OV	QTY
L1	9602	376-0104	16	8	1
L2, 4	SN7445N	376-0032	16	8	2
L3, 6, 7	SN7406N	376-0055	14	7	3
L8, 10	FPQ3468	376-0107			2
L9	FPQ3725	376-0106			1

NO.	REVISION	DATE	BY
1	PER ECN 3135 Q2, 3, 4, 6 AND 7 WERE 2N3224 APP'D SKH	8-16-72	

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
709	[illegible]	3/31/72	SKH	5/15/72
	CHECKED K.T.	5/11/72	APP.	

TITLE: SCHEMATIC LOGIBLOC L542
MOTOR LOGIC CONTROL AND SOLENOID CONTROL UNIT

SHT OF — DWG. NO. D 6401-1 — REV. 1

LOCATION	TYPE	W.L PART NO.	TERM.NO. Vcc +5VR	TERM.NO. ±0V	QTY.
L1,14,15	SP380A	376-0061	8	1	3
L2,3,13	2N74123N	376-0080	16	8	3
L4	2N7486N	376-0036	14	7	1
L5,7,12	2N7400N	376-0002	14	7	4
L6,10	2N7474N	376-0006	14	7	2
L8	2N7404N	376-0010	14	7	1
L9	8T380	376-0163	8	1	1

COMPONENT	SIZE / TYPE	W.L. PART NO.	QTY.
R1,3,7,16,18, 20,22,24	1K, 1/4W	330-3010	8
R2,14,17	27K, 1/4W	330-4027	3
R4,21,23,25	120Ω, 1/4W	330-2012	4
R5,8	5.6K, 1/4W	330-3056	2
R6,9,10	25K, 1/4W	336-1007	3
R 26,27,28	2.2K, 1/4W	330-3022	3
R11	15K 1/4W	330-4015	1
R12,13,15	220Ω 1/4W	330-2022	3
R19	33Ω, 1/4W	330-1033	1
C1,17,18	15μf 20V	300-4022	3
C2	.05μf CER.	300-1900	1
C4	.82μf	300-4012	1
C5	.015μf	300-2033	1
C3,6,7,9,12-16	.01μf	300-1917	9
C8	100pf	300-1100	1
C10	3.3μf	300-4013	1
C11	.1μf	300-1901	1
D1-6	SIL. DIODE	380-1000	6
Q1,2,3	2N5189	375-1021	3
Q4,5,6	2N3055		3

6407

COMPONENT LAYOUT

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

CONN.1

A	1	
B	2	+5V
C	3	±0V
D	4	SPR
E	5	
F	6	
H	7	
J	8	
K	9	RDRDY
L	10	
M	11	
N	12	
P	13	STEP
R	14	ARST
S	15	REV

CONN.2

A	1	
B	2	
C	3	CH1
D	4	CH2
E	5	CH3
F	6	CH4
H	7	CH5
J	8	CH6
K	9	CH7
L	10	CH8
M	11	
N	12	
P	13	±0V
R	14	+5V
S	15	

COMP. SIDE — WIRING SIDE

REVISION	BY	DATE
1 REV. PER ECN 4045 APP'D: J. Wu	AK	2-21-74
2 REV. PER ECN 4132 APP'D: C. Lee	AK	4-17-74

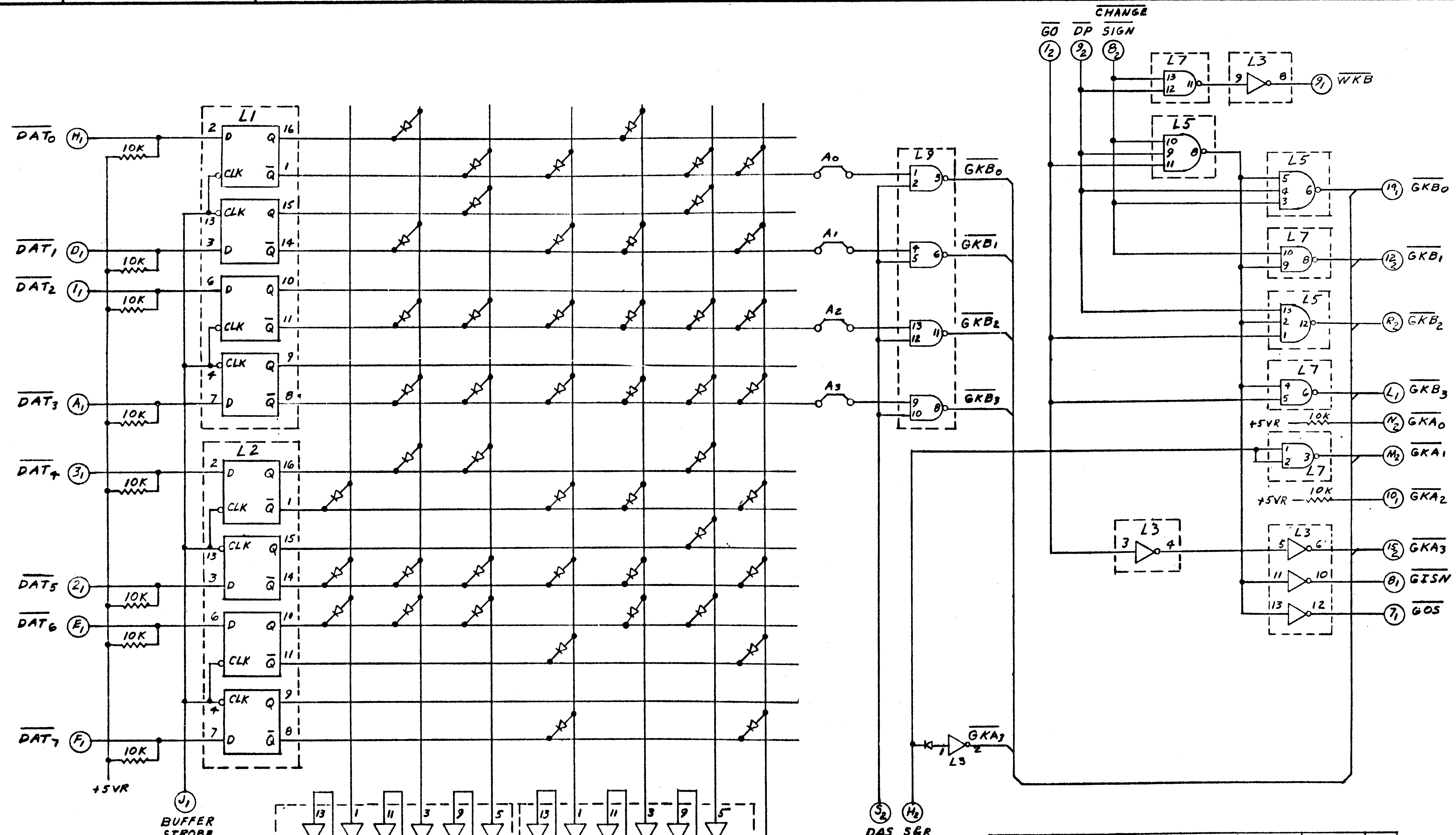
WANG LABORATORIES INC.
TEWKSBURY, MASS.

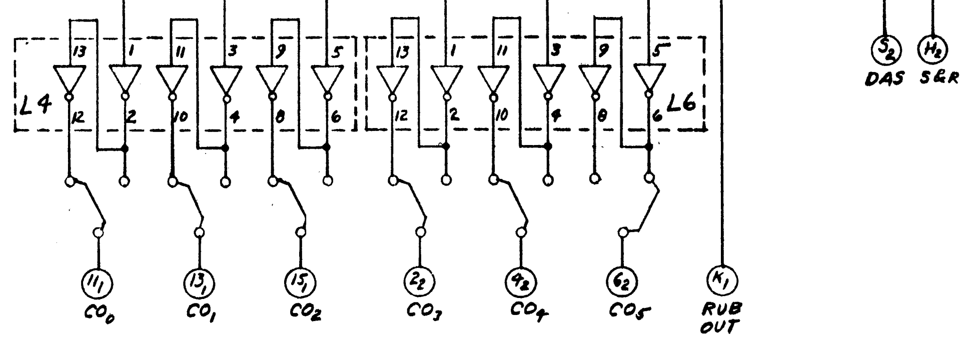
MODEL NO.	DRAWN	DATE	APP.
3300	AK	11-13-72	
	CHECKED		APP. BOM 2-7-73

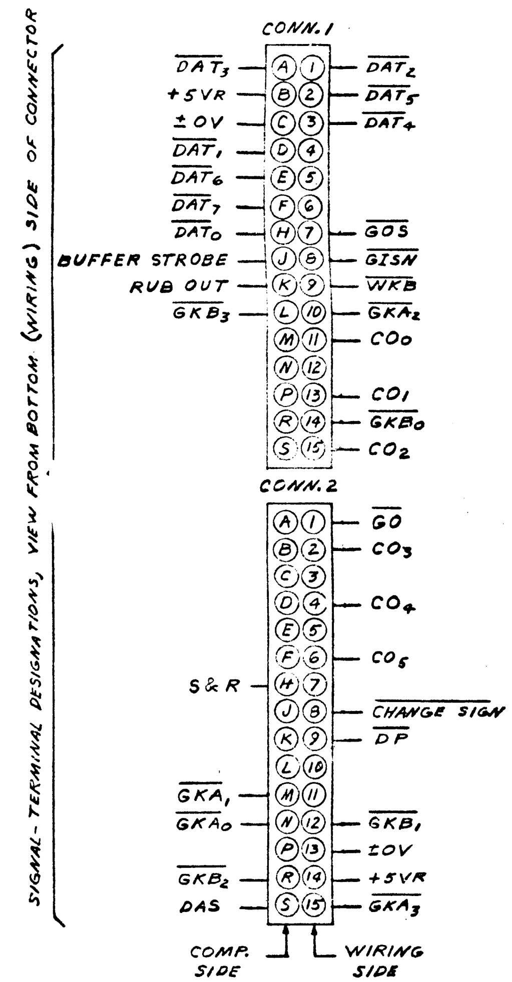
TITLE: SCHEMATIC LOGIBLOC #L545
HIGH SPEED TAPE READER CONTROL

SHT OF | DWG. NO. D 6407 | REV. 2

DO NOT SCALE

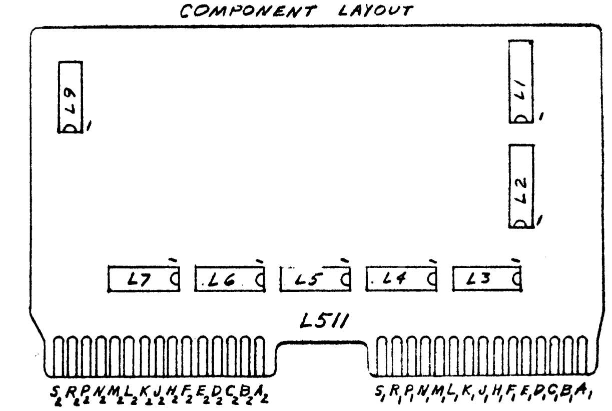




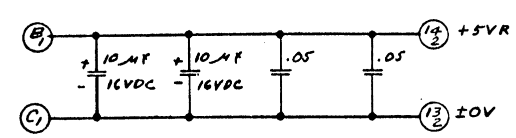


LOCATION	TYPE	WANG LAB. No.	TERM. No Vcc +5VR	TERM. No ±0V	QTY
L4, 6	SN7404N	376-0010	14	7	2
L1, 2	SN7475N	376-0013	5	12	2
L3	9935	376-0025	14	7	1
L7, 9	9946	376-0023	14	7	2
L5	9963	376-0033	14	7	1

COMPONENT LAYOUT



NOTE:-
1. ALL DIODES ARE WL380-1001 (QTY 48)
2. ALL RESISTORS ARE 1/4 W



NO.	REVISION	DATE	BY
1	REVISED PER ECN # 3928 APP'D SKH	12-13-72	

TOL. EX. AS NOTED .XX ±.010 .XXX ±.005 ANG. ±0°30' FRAC. ±1/64 FINISH ✓	
MATERIAL	
FINISH	

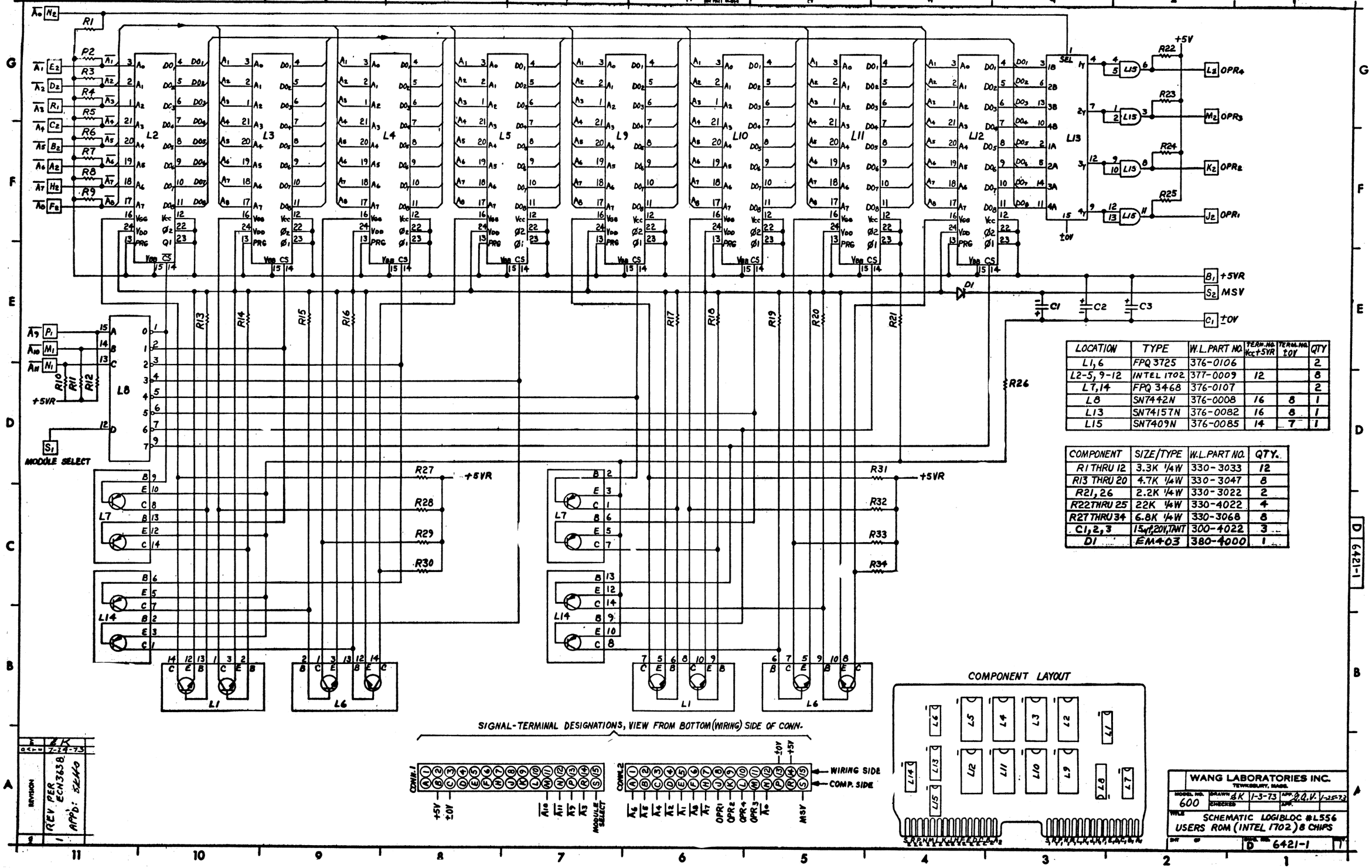
WANG LABORATORIES, INC. TEWKSBURY, MASS. U. S. A.

DR	DATE 6-27-72
CHK	DATE
APPD G.T.C.	DATE 11/8/72
MODEL No. 603	W.O. No.
SCALE	SHEET OF

TITLE SCHEMATIC LOGIBLOC, TAPE READER #L546

PART NUMBER	REV	SIZE	DRAWING NUMBER
	1	D	6408

D 6408



LOCATION	TYPE	W.L.PART NO.	TERM.NO. Vcc+5VR	TERM.NO. ±0V	QTY
L1, 6	FPQ 3725	376-0106			2
L2-5, 9-12	INTEL 1702	377-0009	12		8
L7, 14	FPQ 3468	376-0107			2
L8	SN7442N	376-0008	16	8	1
L13	SN74157N	376-0082	16	8	1
L15	SN7409N	376-0085	14	7	1

COMPONENT	SIZE/TYPE	W.L.PART NO.	QTY.
R1 THRU 12	3.3K 1/4W	330-3033	12
R13 THRU 20	4.7K 1/4W	330-3047	8
R21, 26	2.2K 1/4W	330-3022	2
R22 THRU 25	22K 1/4W	330-4022	4
R27 THRU 34	6.8K 1/4W	330-3068	8
C1, 2, 3	15μf 20V, TANT	300-4022	3
D1	EM403	380-4000	1

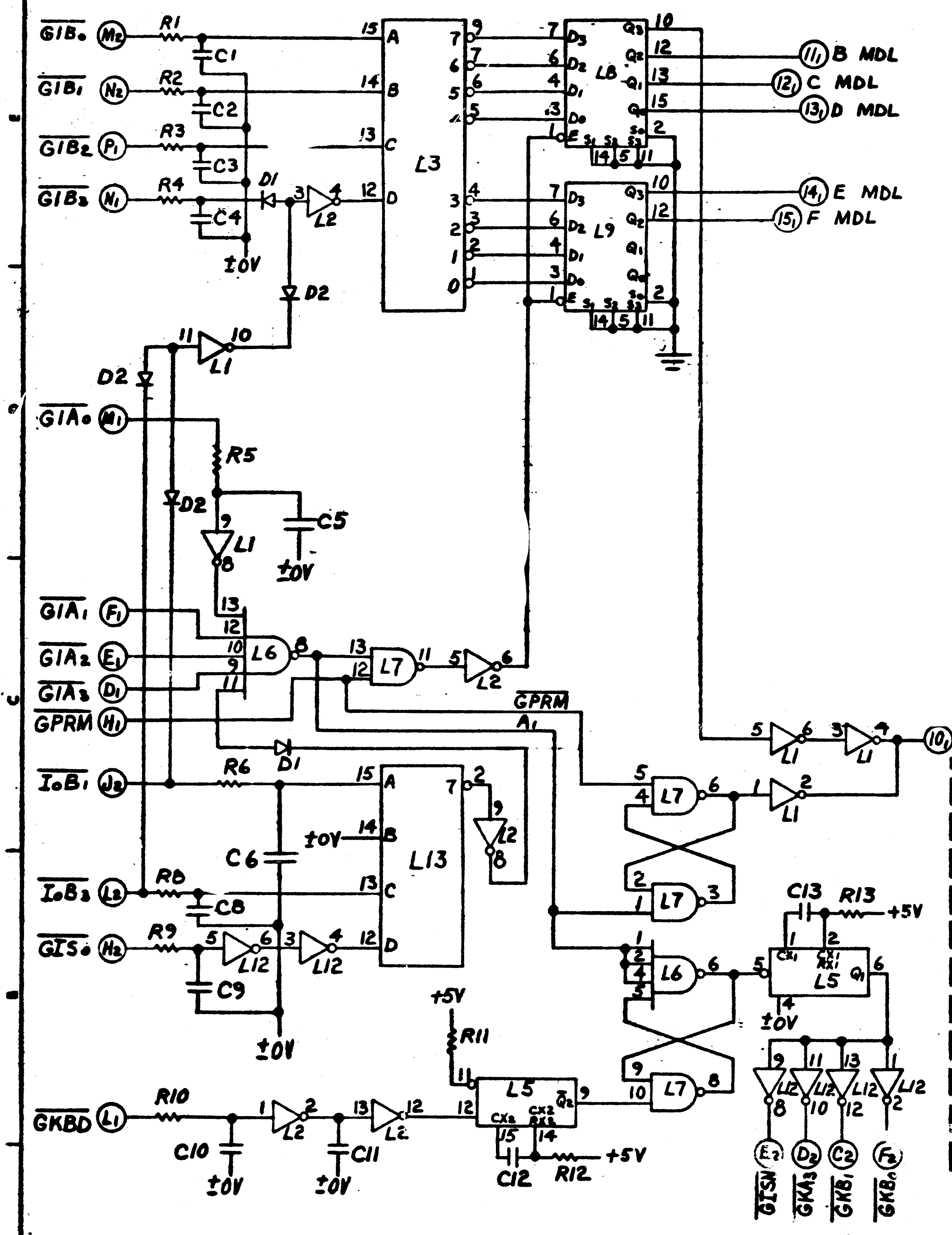
REVISION	BY	DATE
1 REV PER ECN 3638 APP'D: SLMO	dK	7-24-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.	DATE
600	dK 1-3-73	D.D.V.	1-25-73
CHECKED		ENG.	

TITLE: SCHEMATIC LOGIBLOC #L556
USERS ROM (INTEL 1702) 8 CHIPS

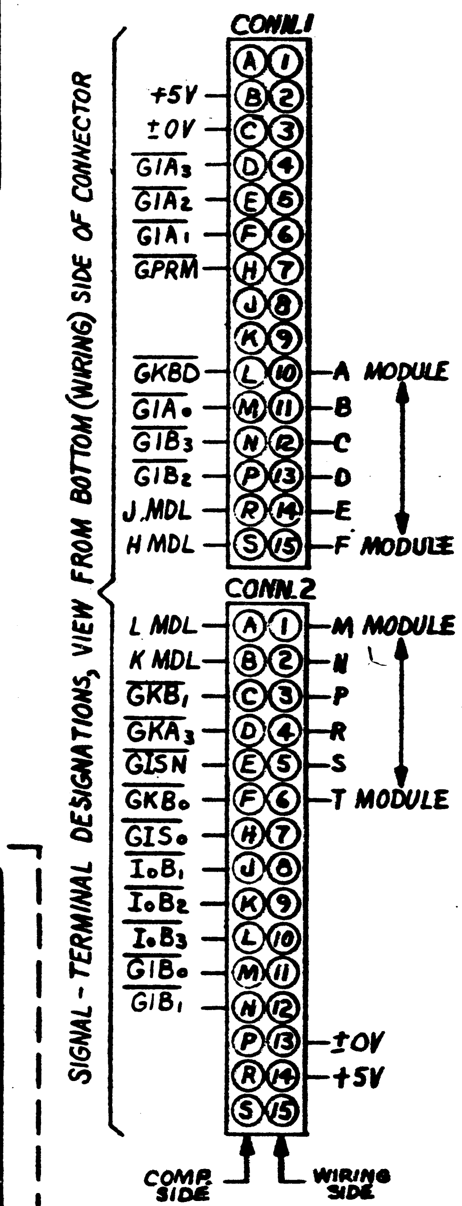
SIZE D | DWG. NO. 6421-1 | REV. 1

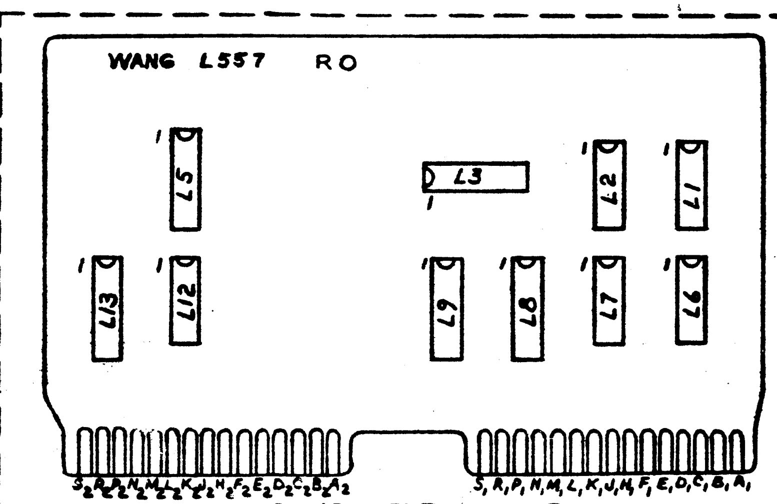


LOCATION	TYPE	W.L. PART NO.	TERM. NO. ±0V	TERM. NO. Vcc+5V	QTY.
L1, 2, 12	9936	376-0026	7	14	3
L3, 13	SN7442N	376-0008	8	16	2
L5	9602	376-0104	8	16	1
L6	9932	376-0046	7	14	1
L7	9946	376-0023	7	14	1
L8, 9	9314	376-0108	8	16	2

COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY.
R1-10	100Ω 1/4W	330-2010	10
R11	10K 1/4W	330-4010	1
R12, 13	27K 1/4W	330-4027	2
C1-5, 6-10	390pf	300-1390	10
C11	.001μf	300-1906	1
C12, 13	150pf	300-1150	2
--			
C14-18	.01μf	300-1903	5
C19-20	15μf 20V (TANT)	300-4022	2
D1	SIL. DIODE	380-1001	2
D2	GER. DIODE	380-0000	3

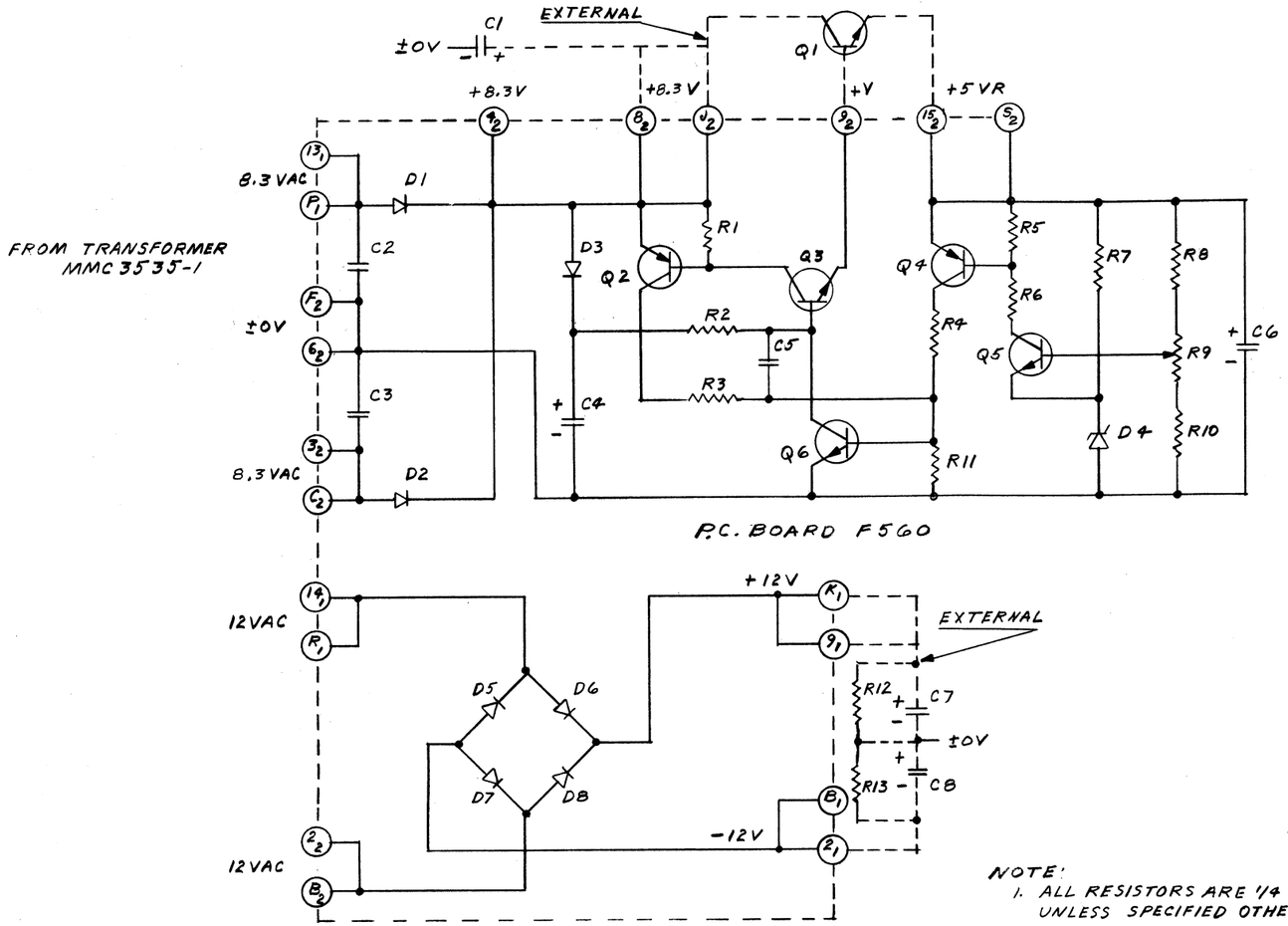
REVISIONS
1. RFA-0533
APP'D:
11-16-73





COMPONENT LAYOUT

TOL. EX. AS NOTED .XX ±.010 .XXX ±.005 FRAC. ±1/ ANG. ±	WANG LABORATORIES INC. TEWKSBURY, MASS.	
MODEL NO. 628/FAB	DRAWN GK 2-28-73	APP. 5/10/73
	CHECKED	APP.
MATERIAL	TITLE SCHEMATIC LOGIBLOC # L557 EXTENDED ROM CONTROL CIRCUIT	
FINISH	SCALE	
W.O. NO.	DWG. NO. C 6427-1	REV. 1

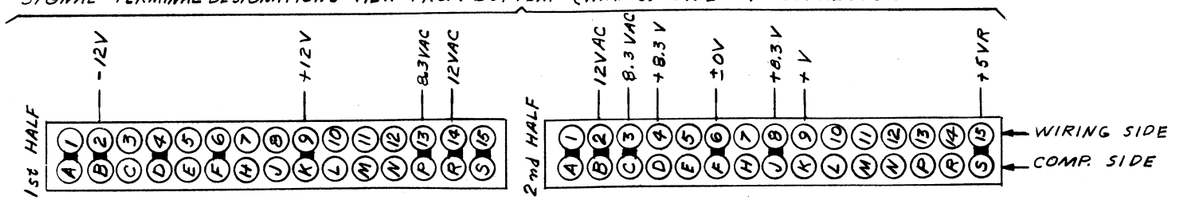


COMPONENT	SIZE/TYPE	QTY
Q1	40251	1
Q2, 4	GT544	2
Q3	2N5189	1
Q5	2N3014	1
Q6	35224	1
C1	14000μF 12V	1
C2, 3	.02μF	2
C4, 6	100μF 15V	2
C5	0.1μF	1
C7, 8	6000μF 20V	2
D1, 2, 5, 6, 7, 8	1N4719	6
D3	1N3253	1
D4	1N746A	1
R1	10Ω	1
R2, 3	470Ω ½W	2
R4	2.2K	1
R5, 11	4.7K	2
R6	1K	1
R7	100Ω ½W	1
R8	220Ω	1
R9	1K POT	1
R10	1.5K	1
R12, 13	10K	2

REV	DATE	REVISIONS
B	6/14/71	PER ECN #2208 WAS 7.5VAC NOW 8.3VAC APP. RJT

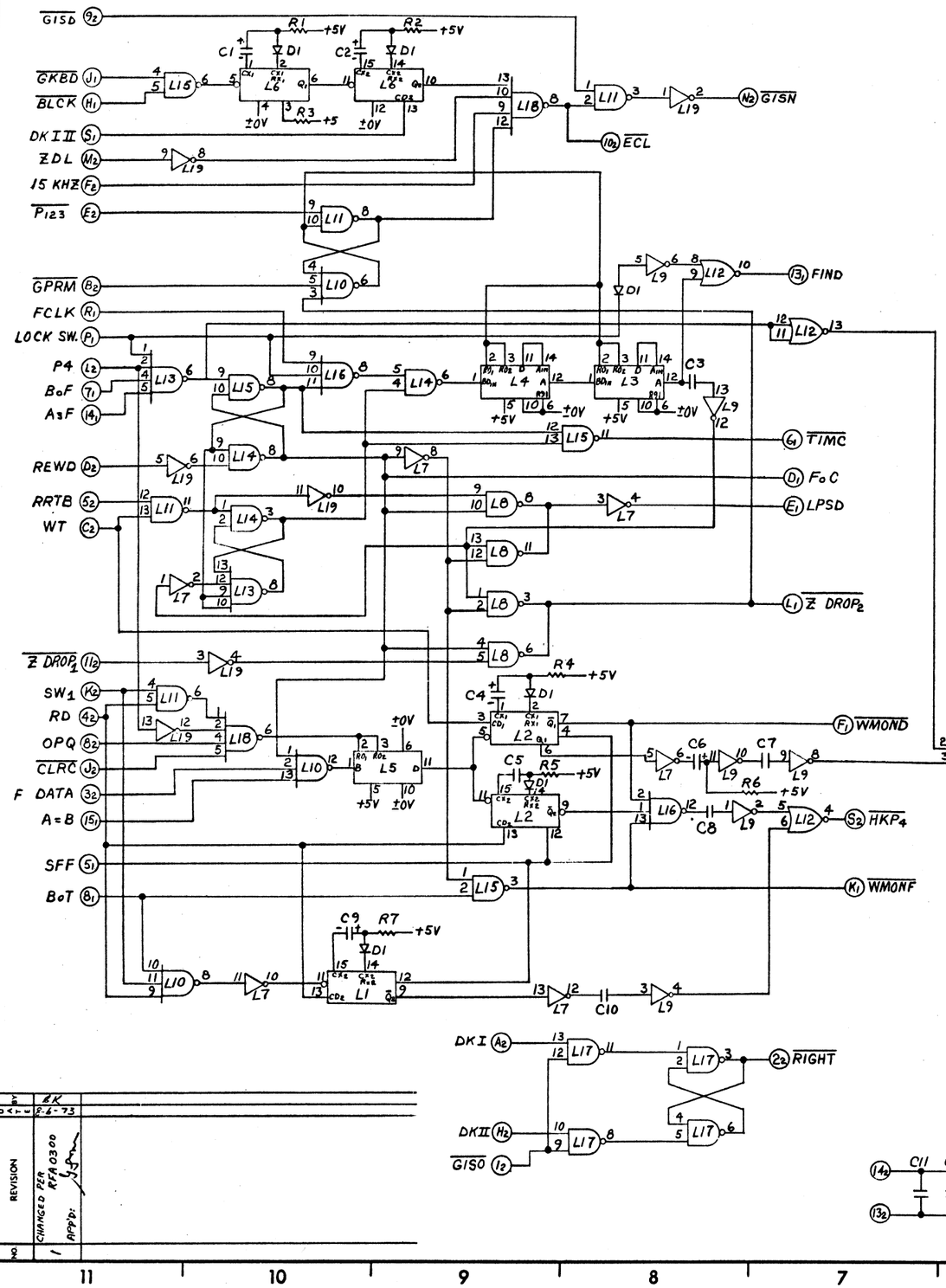
NOTE:
1. ALL RESISTORS ARE 1/4 W UNLESS SPECIFIED OTHERWISE.

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



WANG LABORATORIES INC. TEWKSBURY, MASS.					
MODEL NO. 703	DRAWN JAB	12/3/70	APP.		
	CHECKED		APP. JM	12/3/70	
TITLE SCHEMATIC #F560-1 DC SUPPLY					
W.O. NO.	DWG. NO. C 6040-1			REV. 1	

DO NOT SCALE



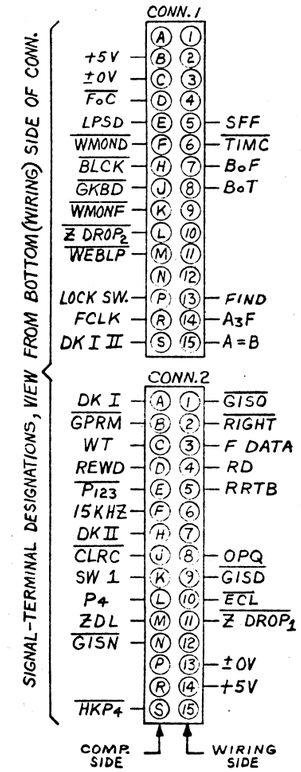
LOCATION	TYPE	W.L. PART NO.	TERM. NO. ±0V	TERM. NO. Vcc +5VR	QTY.
L1, 2, 6	9602	376-0104	8	16	3
L3, 4	SN7490N	376-0073	5	10	2
L5	SN7493N	376-0011	5	10	1
L7, 19	SN7404N	376-0010	7	14	2
L8, 11, 14, 15, 17	SN7400N	376-0002	7	14	5
L9	9935	376-0025	7	14	1
L10, 16	SN7410N	376-0003	7	14	2
L12	SN7402N	376-0016	7	14	1
L13, 18	SN7420N	376-0004	7	14	2

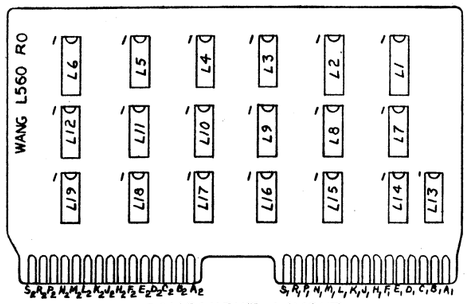
COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY.
R1	33K 1/4W	330-4033	1
R2	27K 1/4W	330-4027	1
R3, 5	10K 1/4W	330-4010	2
R4	22K 1/4W	330-4022	1
R6	3.9K 1/4W	330-3039	1
C1	200µf, 15V	300-4036	1
C2	5.6µf, 35V	300-4017	1
C3	.0014µf, 200V	300-1906	1
C4	.82µf, 35V	300-4012	1
C5	.22µf, 35V	300-4006	1
C6	1µf, 35V	300-4000	1
C7	.0024µf, 200V	300-1913	1
C8, 10	680pf (CER.)	300-1680	2
C17, 18	15µf, 20V TANT	300-4022	2
C11 THRU 16	.05µf, 12V	300-1900	6
D1	.4B SIL. DIODE	380-1001	6
C9	.47µf TANT	300-4001	1
R7	15K 1/4W	330-4015	1

HOLE LEGEND

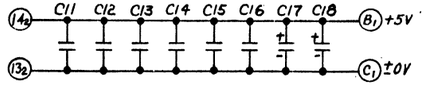
	HOLE DIA	TOL
DRILLED OR PUNCHED HOLE TOLERANCES:	.0135 to .125	± .003 ± .001
	.126 to .250	± .004 ± .001
	.251 to .500	± .005 ± .001

IDENT	DESCRIPTION	QTY
A		





COMPONENT LAYOUT



NO.	REVISION	BY	DATE
1	CHANGED PER RFA 0300 RFPD:	EK	8-6-73

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 EK	3-7-73	E ENGR	6/1/73
	CHK		M ENGR	
	E. C. CONTROL		MFG ENGR	

MATERIAL — MODEL NO. 729 — SEE ENGRG SPECIFICATIONS No.

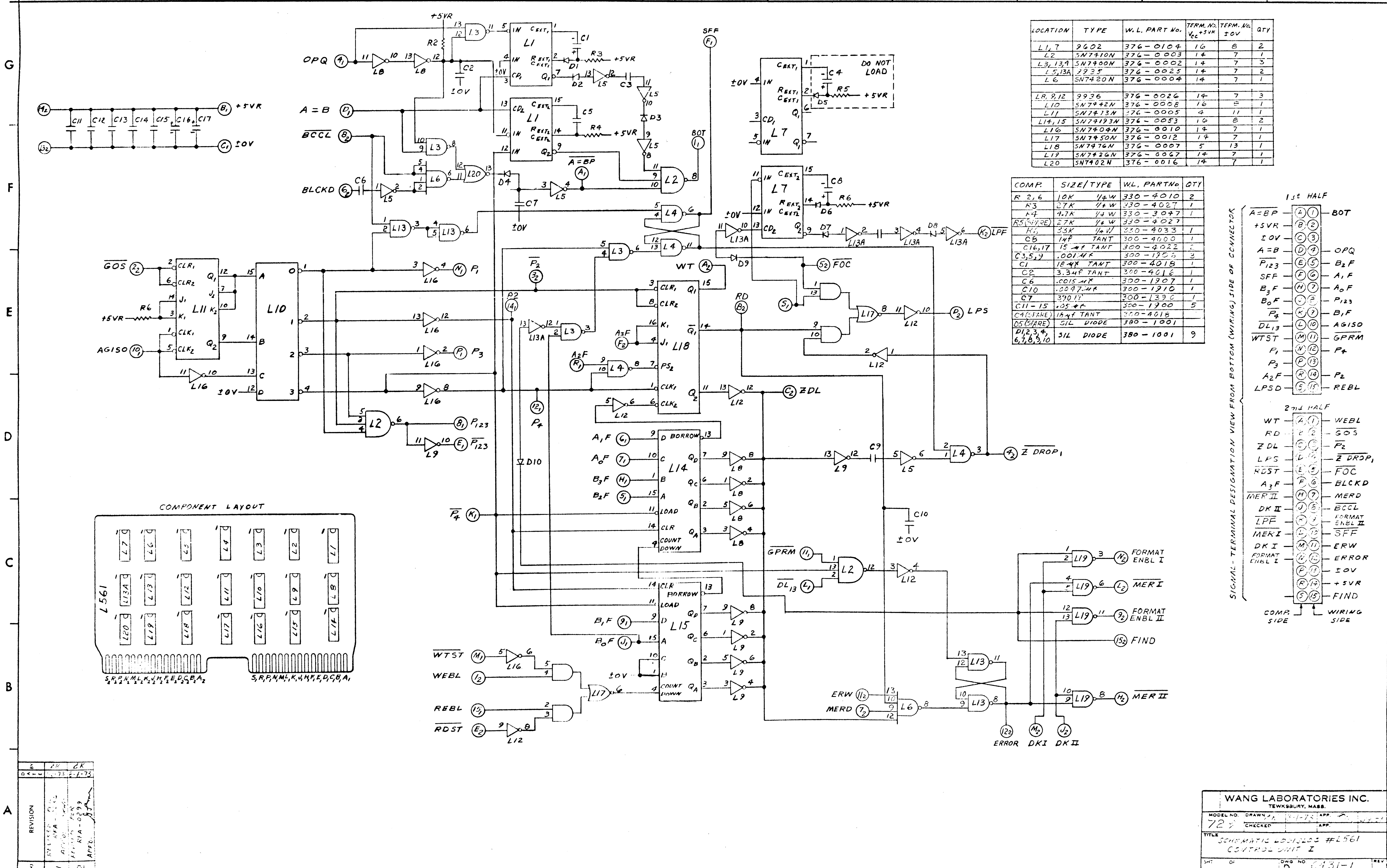
FINISH — TOL. EX. AS NOTED .XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1°30' FINISH 125

TITLE: SCHEMATIC LOGIBLOC #L560 FORMAT CONTROL LOGIC

SCALE — SHT — OF

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.
	D	6434-1	

6434-1



LOCATION	TYPE	W.L. PART No.	TERM. No. V_{cc} +5VR	TERM. No. ±0V	QTY
L1, 7	9602	376-0104	16	8	2
L2	SN7410N	376-0003	14	7	1
L3, 13, 4	SN7400N	376-0002	14	7	3
L5, 13A	9935	376-0025	14	7	2
L6	SN7420N	376-0004	14	7	1
L8, 9, 12	9936	376-0026	14	7	3
L10	SN7442N	376-0008	16	8	1
L11	SN7473N	376-0005	4	11	1
L14, 15	SN74193N	376-0053	16	8	2
L16	SN7404N	376-0010	14	7	1
L17	SN7450N	376-0012	14	7	1
L18	SN7476N	376-0007	5	13	1
L19	SN7426N	376-0067	14	7	1
L20	SN7402N	376-0016	14	7	1

COMP.	SIZE/TYPE	W.L. PART No.	QTY
R 2, 6	10K 1/4W	330-4010	2
R3	27K 1/4W	330-4027	1
R4	4.7K 1/4W	330-3047	1
R5 (SPARE)	27K 1/4W	330-4027	
R6	33K 1/4W	330-4033	1
C8	1μf TANT	300-4000	1
C16, 17	15 μf TANT	300-4022	2
C3, 5, 9	.001 μf	300-1906	3
C1	18 μf TANT	300-4018	1
C2	3.3μf TANT	300-4016	1
C6	.0015 μf	300-1907	1
C10	.0047 μf	300-1910	1
C7	390 PF	300-1390	1
C11-15	.05 μf	300-1900	5
C4 (SPARE)	18μf TANT	300-4018	
D5 (SPARE)	SIL DIODE	380-1001	
D1, 2, 3, 4, 6, 7, 8, 9, 10	SIL DIODE	380-1001	9

WANG LABORATORIES INC.
TEWKSBURY, MASS.

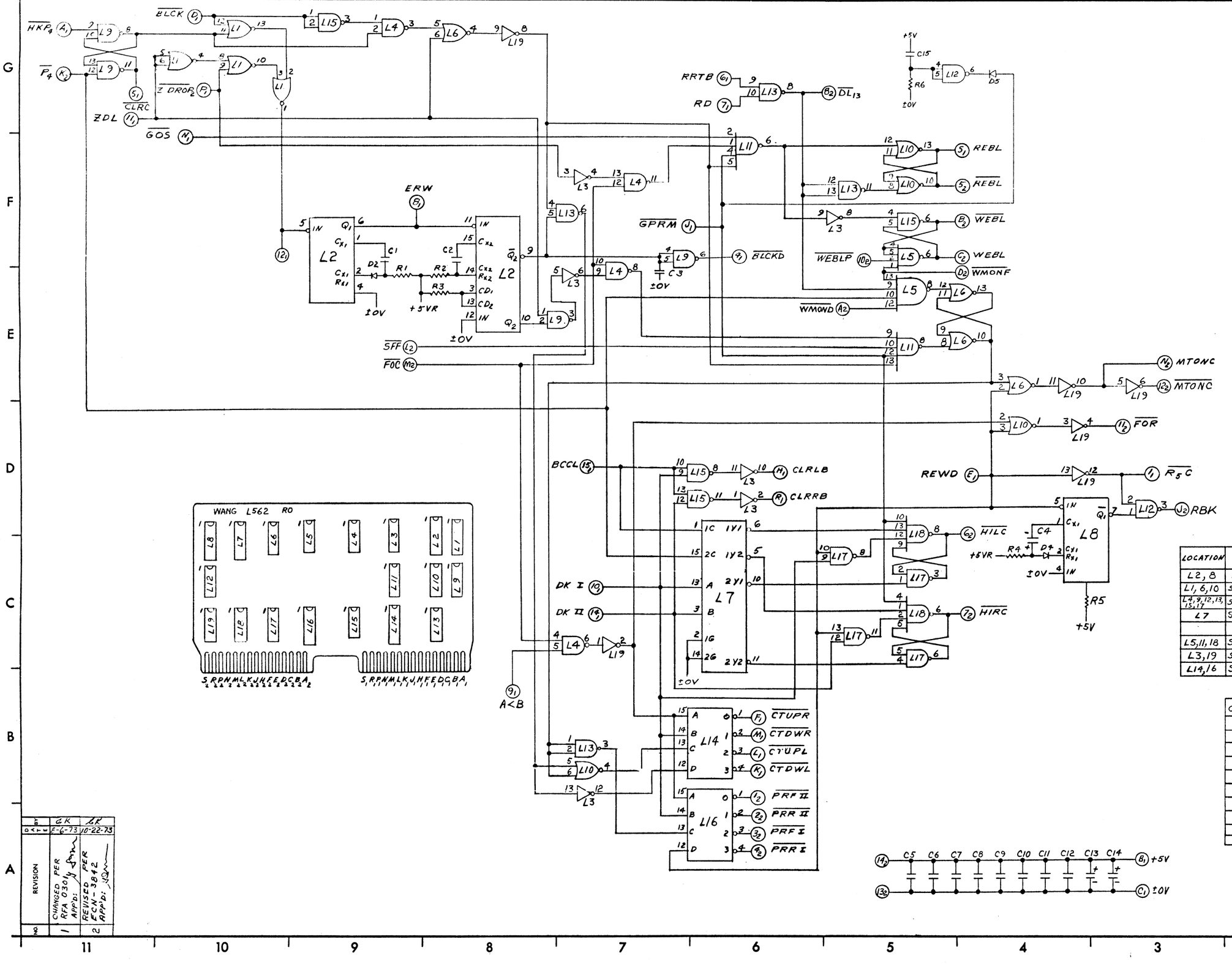
MODEL NO. 729 — DRAWN ... 5-1-73 — APP. — CHECKED — APP.

TITLE: SCHEMATIC LOGIBLOC #L561 CONTROL UNIT I

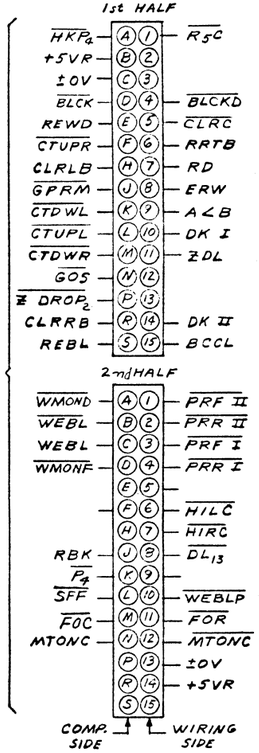
SHT OF — DWG NO. D 6431-1 — REV

REVISION

DO NOT SCALE



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



LOCATION	TYPE	W.L. PART No.	TERM. No +5VR	TERM. No ±0V	QTY
L2, 8	9602	376-0109	16	8	2
L1, 6, 10	SN7402N	376-0016	14	7	3
L4, 9, 12, 13, 15, 17	SN7400N	376-0002	14	7	6
L7	SN74155	376-0049	16	8	1
L5, 11, 18	SN7420N	376-0004	14	7	3
L3, 19	SN7404N	376-0010	14	7	2
L14, 16	SN7442N	376-0008	16	8	2

COMPONENT	SIZE/TYPE	W.L. PART NO	QTY.
R1, 2, 4	22K 1/4W	330-4022	3
R3	4.7K 1/4W	330-3047	1
C1, 15	5.6μF, 35V	300-4017	2
C2	.001μF, 200V	300-1906	1
C3	.0015μF, 200V	300-1907	1
C4, 13, 14	15μF, 20V (TANT)	300-4022	3
C5-12	.05μF, 12V	300-1900	8
D2, 4, 5	.4B SIL. DIODE	380-1001	3
R5	10K 1/4W	330-4010	1
R6	820Ω 1/4W	330-2094	1

NO.	REVISION	BY	DATE
1	CHANGED PER RFA 0301 APP'D:	G.K	5-6-73
2	REVISED PER ECN-3842 APP'D:	R.K	10-22-73

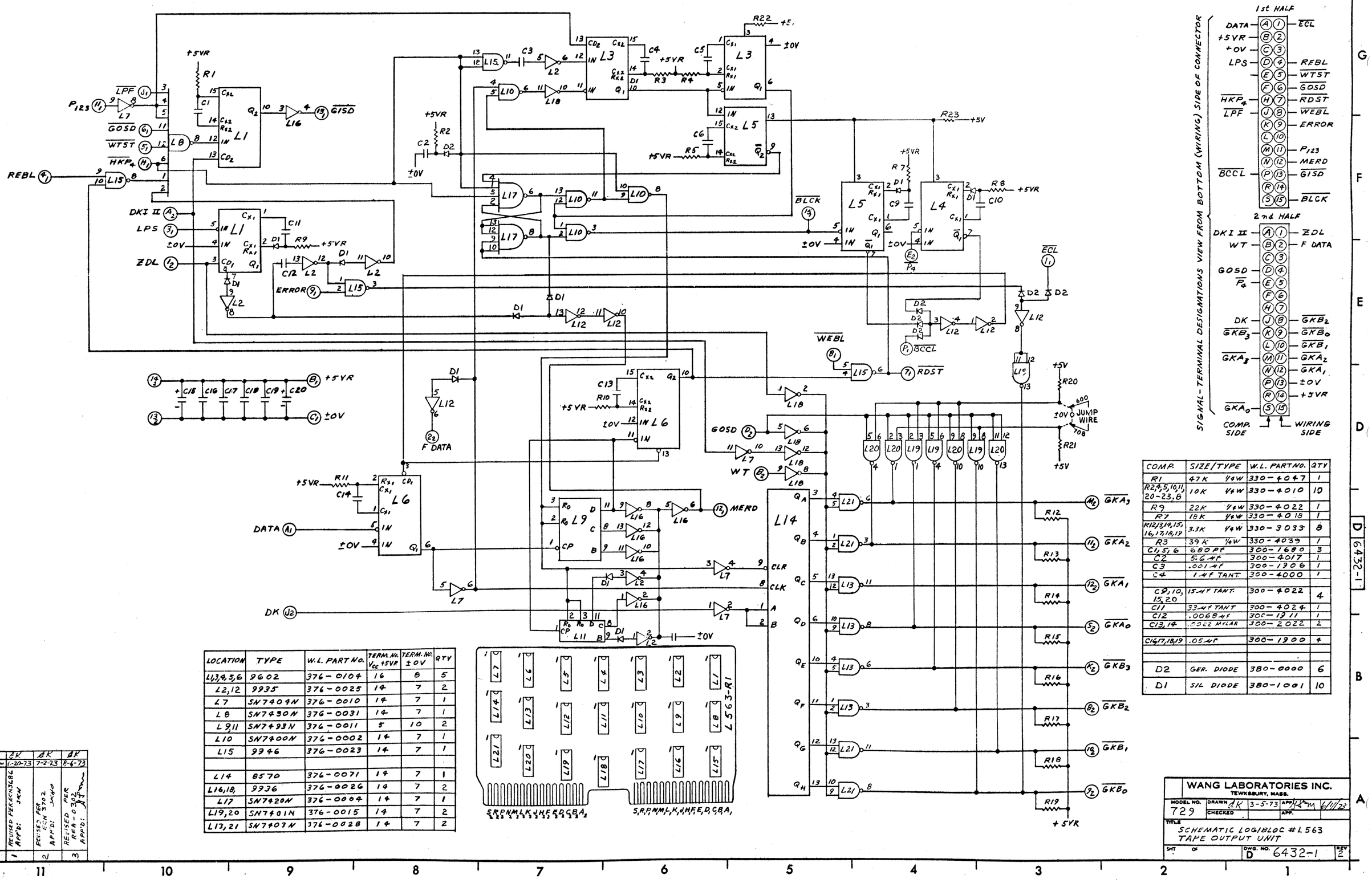
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	CHECKED	APP.	APP.
729	R.K 3-2-73			5/4/73

TITLE: SCHEMATIC LOGIBLOC #L562 CONTROL UNIT II

SHT OF | DWG. NO. D 6435-1 | REV.

D 6435-1



LOCATION	TYPE	W.L. PART NO.	TERM. NO. V_{CC} +5VR	TERM. NO. ±0V	QTY
L1,3,4,5,6	9602	376-0104	16	8	5
L2,12	9935	376-0025	14	7	2
L7	SN7404N	376-0010	14	7	1
L8	SN7430N	376-0031	14	7	1
L9,11	SN7493N	376-0011	5	10	2
L10	SN7400N	376-0002	14	7	1
L15	9946	376-0023	14	7	1
L14	8570	376-0071	14	7	1
L16,18,	9936	376-0026	14	7	2
L17	SN7420N	376-0004	14	7	1
L19,20	SN7401N	376-0015	14	7	2
L13,21	SN7403N	376-0028	14	7	2

COMP.	SIZE/TYPE	W.L. PART NO.	QTY
R1	47K 1/4W	330-4047	1
R2,4,5,10,11, 20-23,8	10K 1/4W	330-4010	10
R9	22K 1/4W	330-4022	1
R7	18K 1/4W	330-4018	1
R12,13,14,15, 16,17,18,19	3.3K 1/4W	330-3033	8
R3	39K 1/4W	330-4039	1
C1,5,6	680 PF	300-1680	3
C2	5.6 MF	300-4017	1
C3	.001 MF	300-1906	1
C4	1 MF TANT.	300-4000	1
C9,10, 15,20	15 MF TANT.	300-4022	4
C11	33 MF TANT	300-4024	1
C12	.0068 MF	300-1911	1
C13,14	.0022 MYLAR	300-2022	2
C16,17,18,19	.05 MF	300-1900	4
D2	GER. DIODE	380-0000	6
D1	SIL DIODE	380-1001	10

NO	REVISION	BY	DATE
1	REVISED PER ECN 3686 APP'D: JKW	BK	1-20-73
2	REVISED PER ECN 3702 APP'D: JKW	BK	7-2-73
3	REVISED PER RFA-0302 APP'D:	BK	8-6-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	CHECKED	APP'D
729	BK 3-5-73		APP.

TITLE: SCHEMATIC LOGIBLOC #L563 TAPE OUTPUT UNIT

SHT OF | DWG. NO. D 6432-1 | REV 2

D 6432-1

DO NOT SCALE

LOCATION	TYPE	W.L. PART NO.	TERM. NO. Vcc + 5VR	TERM. NO. 0V	QTY
L18	SN7420N	376-0004	14	7	1
L19	SN7402N	376-0016	14	7	1
L12	SN7400N	376-0002	14	7	1
L1,7,15	SN7493N	376-0011	5	10	3
L2,3,4	SN7490N	376-0073	5	10	3
L5	SN7404N	376-0010	14	7	1
L8	9935	376-0025	14	7	1
L9	SN7473N	376-0005	4	11	1
L10,23	9602	376-0104	16	8	2
L13,14,17,20	9946	376-0023	14	7	4
L16	SN74165N	376-0105	16	8	1
L6	SN7406N	376-0055	14	7	1
L21	9936	376-0026	14	7	1
L22	SN7445N	376-0032	16	8	1
L23	9602	376-0104	16	8	1
L11	SN7451N	376-0012	14	7	1
L7A	SN74121N	376-0051	14	7	1

COMP.	SIZE/TYPE	W.L. P/N	QTY
R3, 4	220Ω ¼W	330-2022	2
R11	10K ¼W	330-4010	1
R10,12	27K ¼W	330-4027	2
R7	47K ¼W	330-4047	1
R6,9	18K ¼W	330-4018	2
C1	.001μF	300-1906	1
C11,12	15μF 20VDC	300-4022	2
C3	470PF	300-1970	1
C4-10	.05μF	300-1900	7
C13	47μF TANT.	300-4020	1
C14	.002μF	300-1913	1
D1, 3,4	SIL DIODE	380-1001	3
XTAL	6 MHZ	321-0011	1
C2	8.2μF TANT.	300-4028	1
C15	47PF	300-1047	1
C16	5.6μF 35V	380-4017	1
R1	180Ω ¼W	330-2018	1
R2	1.8K ¼W	330-3018	1

1st HALF

TP7	A 1	A_0F
+5VR	B 2	
0V	C 3	
B_0F	D 4	A_1F
B_1F	E 5	A_2F
B_2F	F 6	
B_3F	H 7	TP5
RFP	J 8	TP4
TIMC	K 9	A_3F
DIR_0	L 10	DATA
DGISO	M 11	RDK
WEBL	N 12	RTCK
EDROP	P 13	LDK
GOS	R 14	LTCK
WT	S 15	DK

2nd HALF

TP3	A 1	DIL_0
DK I	B 2	DIR_1
DK II	C 3	DIL_1
WTST	D 4	SEL I
TP2	E 5	SEL II
TP	F 6	RCR_0
DK II	H 7	RCL_0
15KHZ	J 8	TP
FCLK	K 9	REBL
TP	L 10	WL I
RL I	M 11	GOSD
WL II	N 12	GOSD
TP1	P 13	0V
TP6	P 14	+5VR
RL II	S 18	GOS

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

COMP. SIDE — WIRING SIDE

L564 R2 WANG

L7A L7 L6 XTAL L5 L4 L3 L2 L1

L16 L14 L13 L12 L11 L10 L9 L8

L23 L22 L21 L20 L19 L18 L17 L15

2 SRPNMLKJHFEDCBA 2 — 1 SRPNMLKJHFEDCBA 1

COMPONENT LAYOUT

REVISION	BY	DATE
REVISED PER RFA-0303 APPD:	ER	6-6-73
REVISED PER ECN-4209 APPD: J.K.W.	BK	8-6-74
CHANGED PER RFA 1077 PER MARKED-UP PRINT APPD:	BK	2-11-75

MAY 19 1977

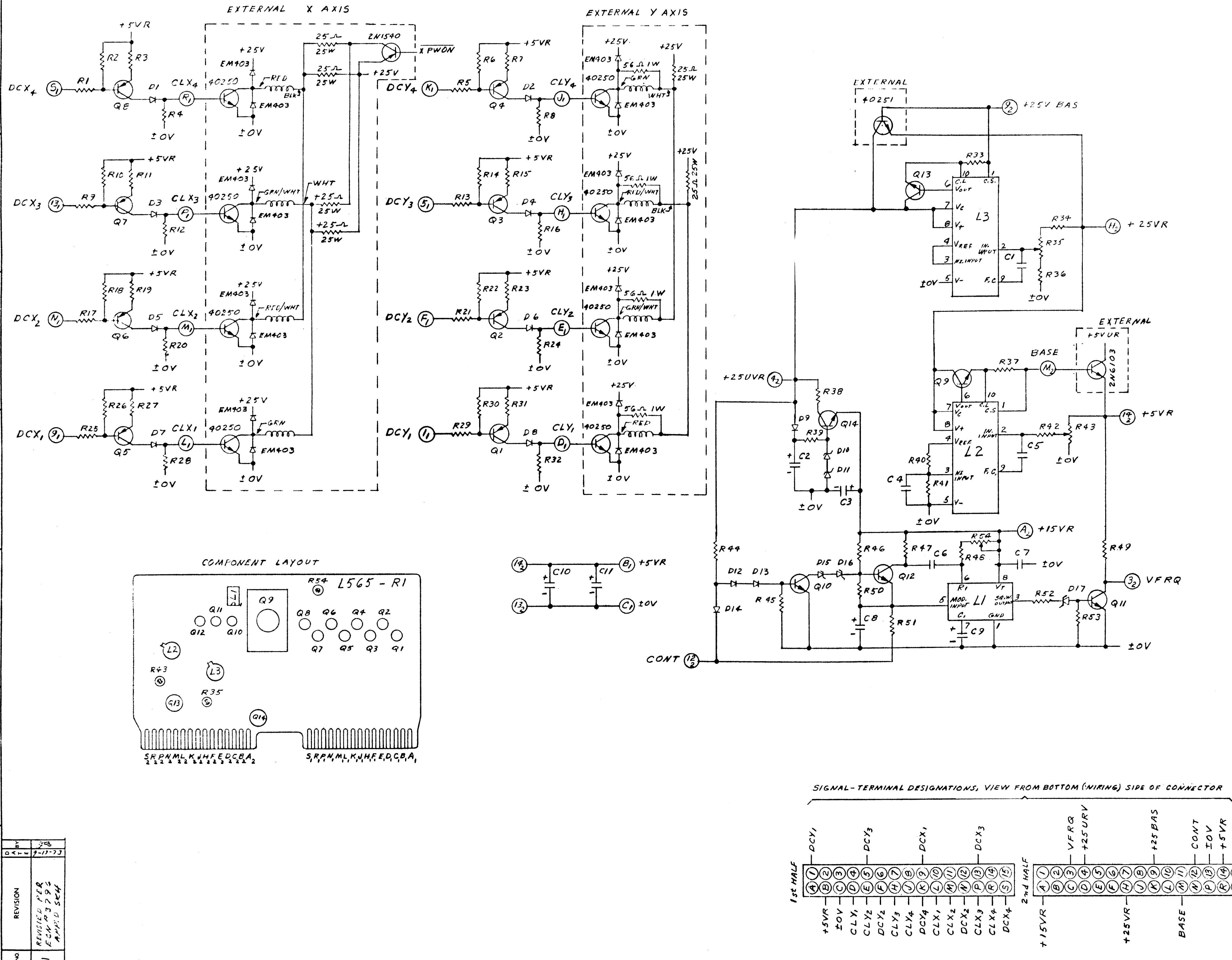
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.
729	BK 3-5-73	APP. 6/4/73
	CHECKED 2-20-75	APP.

TITLE: SCHEMATIC LOGIBLOC #L564
TAPE WRITE UNIT

W.L.# 210-L564 | SHT 4 OF 6 | DWG. NO. D 6433 | REV. 3

D 6433-1



COMPONENT	SIZE/TYPE	W.L. PART NO	QTY
R1, 5, 9, 13, 17, 21, 25, 29.	680 Ω 1/4W	330-2068	8
R2, 6, 10, 14, 18, 22, 26, 30, 45, 53	10K 1/4W	330-4010	10
R3, 7, 11, 15, 19, 23, 27, 31	100 Ω 1/4W	330-2010	8
R4, 8, 12, 16, 20, 24, 28, 32	1K 1/4W	330-3010	8
R33	2.2 Ω 1/2W	331-0022	1
R34	3.3K 1/4W	330-3033	1
R35, 43	1K POT	336-0016	2
R36	1.2K 1/4W	330-3012	1
R37	3.3 Ω 1/2W	331-0033	1
R38	120 Ω 1/4W	330-2012	1
R39, 42	470 Ω 1/4W	330-2047	2
R40	2.7K 1/4W	33 -3027	1
R41, 49, 52	4.7K 1/4W	330-3047	3
R44	22K 1/4W	330-4022	1
R46	330 Ω 1/4W	330-2033	1
R47	[illegible] 5% 1/4W	330-	1
R48	15K 5% 1/4W	330-4016	1
R50	5.6K 1/4W	330-3056	1
R51	2.7K 5% 1/4W	330-3028	1
R54	5K POT	336-1003	1
C1	.01 μF CER	300-1903	1
C2, 3	33 μF 35V TANT	300-4029	2
C4, 5, 7	.05 μF CER	300-1900	3
C6	.001 μF CER	300-1906	1
C8	47 μF 15V TANT	300-4020	1
C9	.0033 μF MYLAR	300-2033	1
C10, 11	15 μF 20V TANT	300-4022	2
D1, 2, 3, 4, 5, 6, 7, 8	EM403	380-4000	8
D9, 12, 13, 14	DIODE SIL	380-1001	4
D10	1N752A 5.6V	380-2056	1
D11	1N758A 10V	380-2100	1
D15, 16	1N753 A 6.2V	380-2062	2
D17	1N962B 11V	380-2126	1
Q1, 2, 3, 4, 5, 6, 7, 8	GT544	375-1017	8
Q9	40250V1	375-1028	1
Q10, 11, 12	TRANS. SIL	375-1006	3
Q13, 14	35224	375-1001	2

LOCATION	TYPE	W.L. PART No.	QTY
L1	NE566V	376-0112	1
L2, 3	723	376-0066	2

REVISION: 1 — REVISED PER ECN #3796 APP'D SCH — 9-17-73

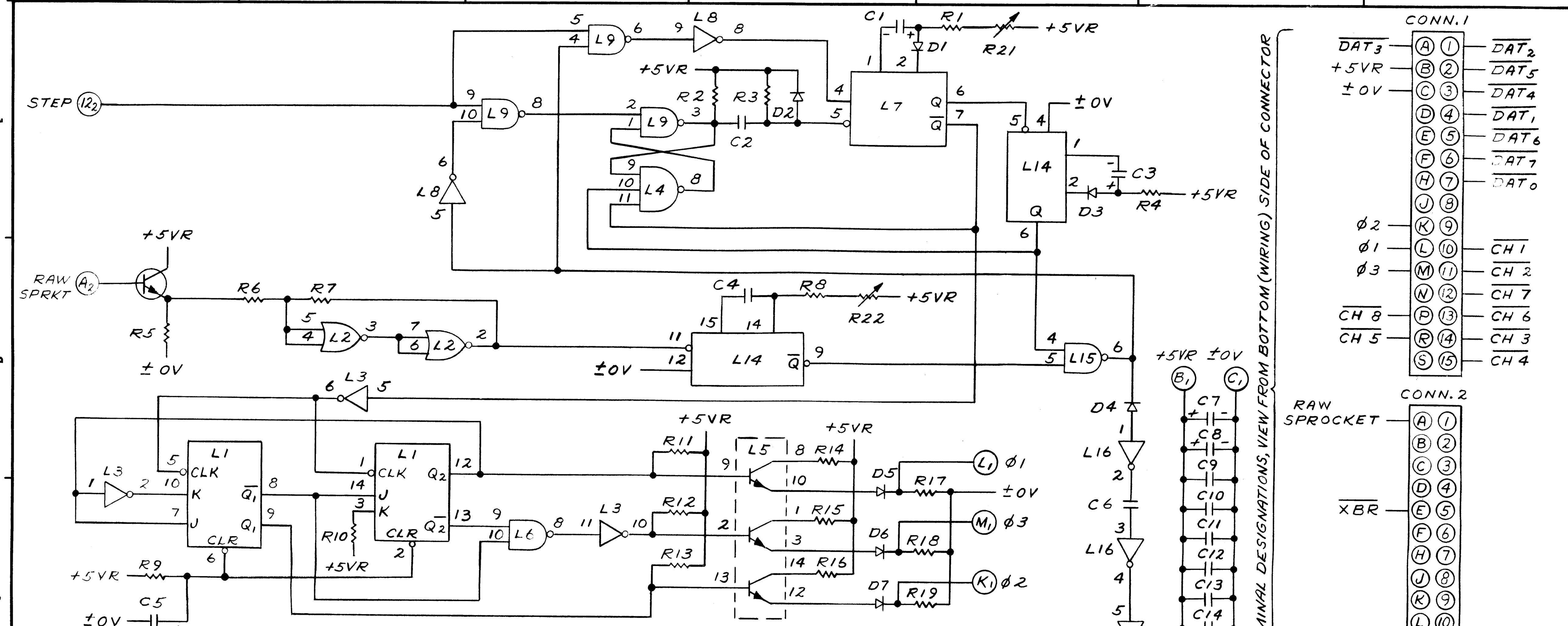
WANG LABORATORIES INC.
TEWKSBURY, MASS.

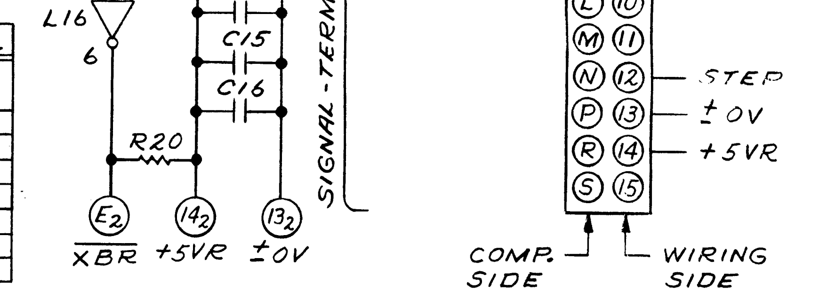
MODEL NO. 732 — DRAWN 3-9-73 — CHECKED — APP.

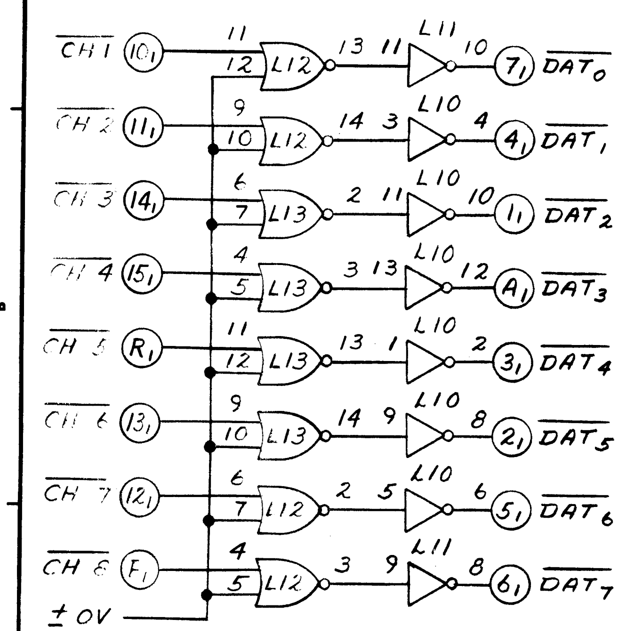
TITLE: SCHEMATIC LOGIBLOC L565 REGULATOR & STEP MOTOR DRIVER

DWG. NO. D 6436-1 — REV 1

DO NOT SCALE



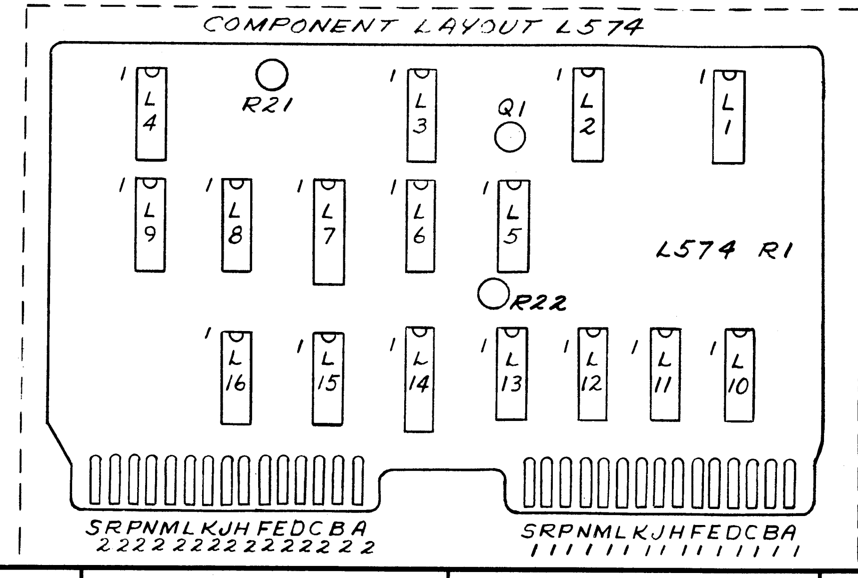




COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1	3.3K 1/4W	330-3033	1
R2,3,5,6,11,12,13,20	1K 1/4W	330-3010	8
R4	15K 1/4W	330-4015	1
R7	4.7K 1/4W	330-3047	1
R8	27K 1/4W	330-4027	1
R9,10	10K 1/4W	330-4010	2
R14,15,16	120Ω 1/4W	330-2012	3
R17,18,19	2.2K 1/4W	330-3022	3
D1,2,3,4	DIODE, SIL.	380-1001	4
D5,6,7	DIODE, SIL.	380-1000	3
Q1	2N3014 SIL.	375-0017	1
C1	.47µf 35V TA.	300-4001	1

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
C2,9,10,11,12,13,14,15,16	.01µf 25V	300-1903	9
C3	5.6µf 35V TA.	300-4017	1
C4	.22µf 35V TA.	300-4006	1
C5,7,8	15µf 20V TA.	300-4022	3
C6	.02µf 25V	300-1904	1
R21	10K POT.	336-1010	1
R22	25K POT.	336-1007	1

COMPONENT LAYOUT L574



I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1	SN7473N	376-0005	11	4	1
L2,12,13	SP380A	376-0061	1	8	3
L3,8,10,11	SN7404N	376-0010	7	14	4
L4	SN7410N	376-0003	7	14	1
L5	FPQ3725	376-0106			1
L6,9,15	SN7400N	376-0002	7	14	3
L7,14	F9602	376-0104	8	16	2
L16	F9935	376-0025	7	14	1

NO.	REVISION	DATE	BY
1	REVISED PER E.C. #3968 APP'D. SKHo	12/31/73	F.S.S.

TOL. EX. AS NOTED: .XX ±.010, .XXX ±.005; FRAC. ±1/64, ANG. ±0°30'; FINISH: ✓

MATERIAL

FINISH

IDENT | QTY | NAME | MATERIAL | DESCRIPTION

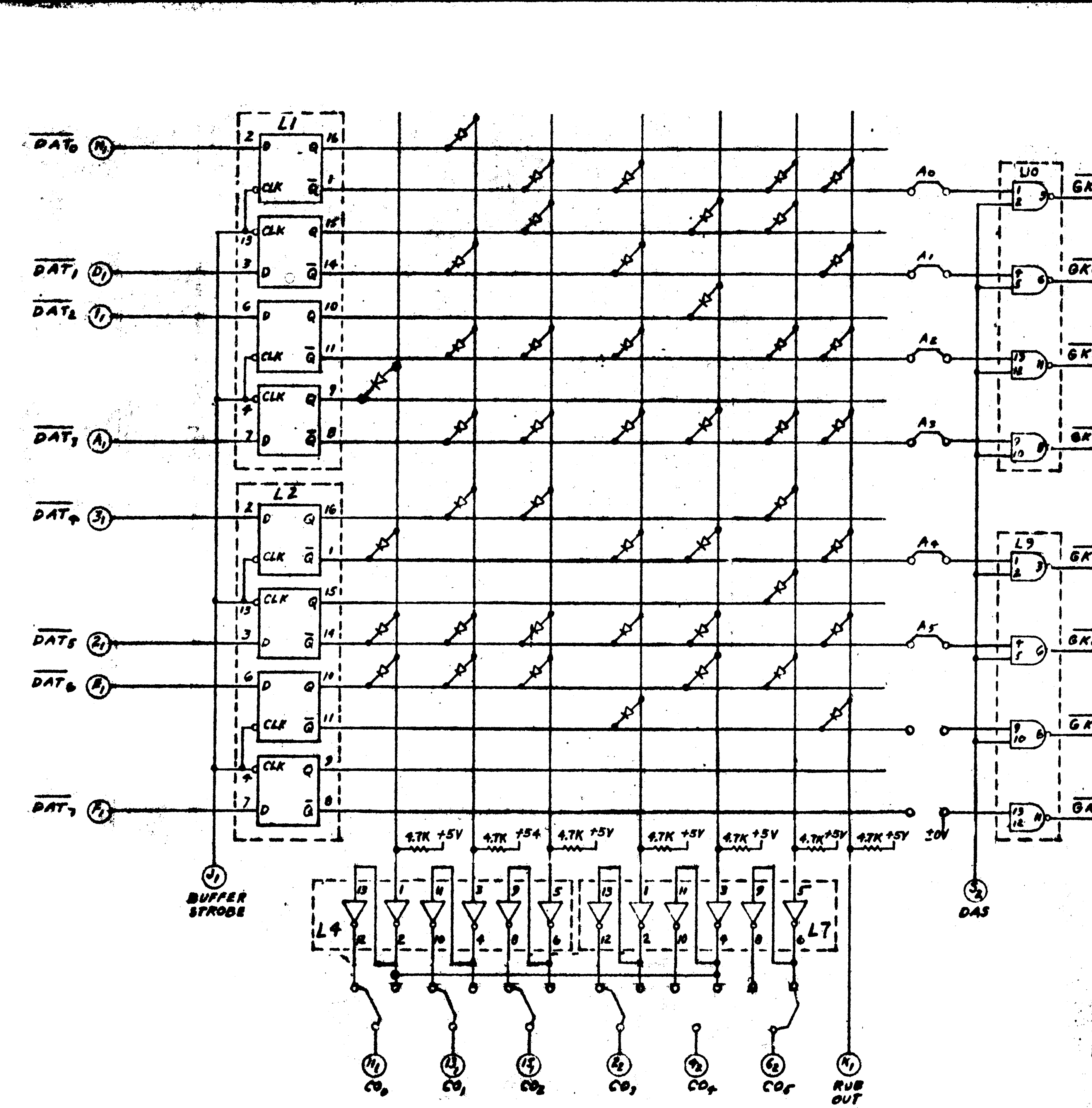
WANG LABORATORIES, INC.
TEWKSBURY, MASS. U. S. A.

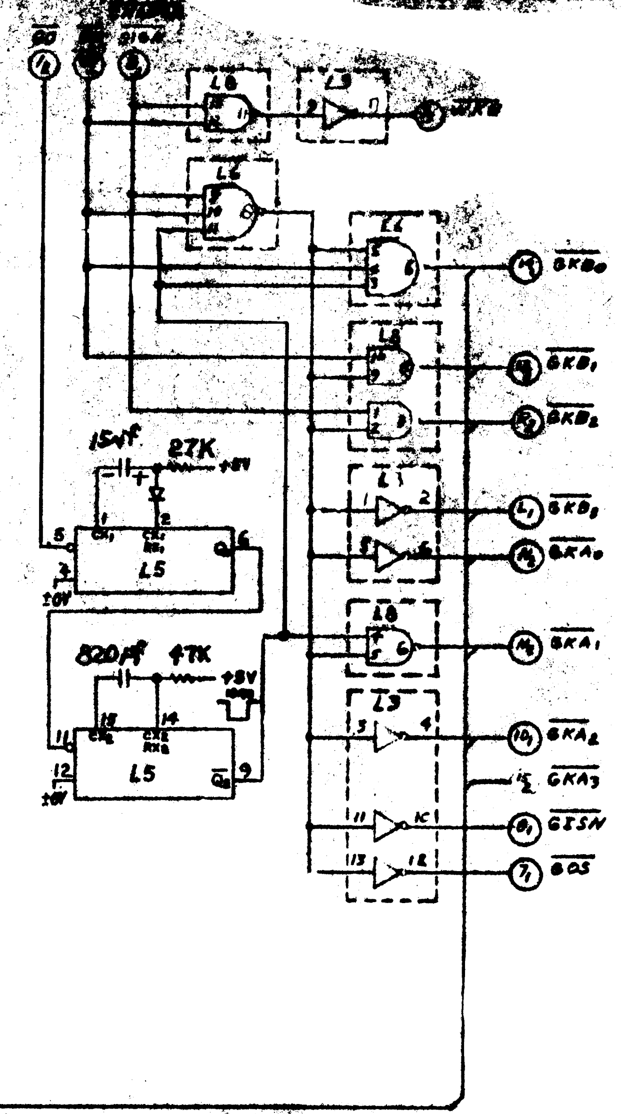
DR F.S.S. — DATE 7-2-73
CHK — DATE
APPD SKHo — DATE 10/31/73

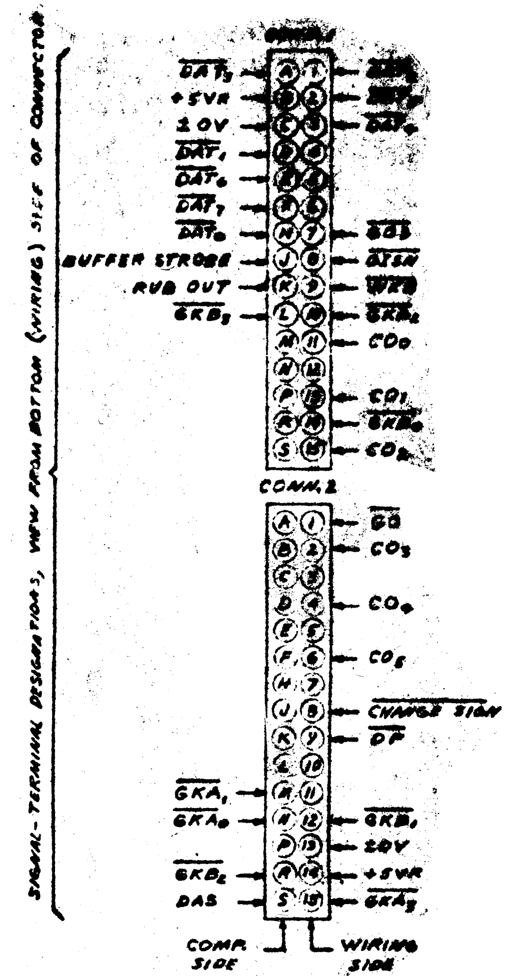
MODEL No. 633/733 — W.O. No. — SCALE — SHEET 1 OF 1

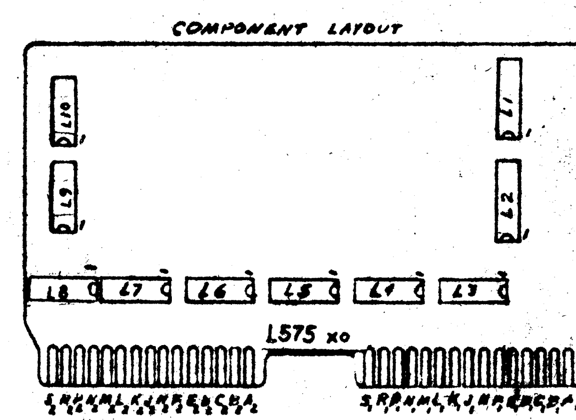
TITLE SCHEMATIC LOGIBLOC #L574 HIGH SPEED TAPE READER MOTOR CONTROL LOGIC

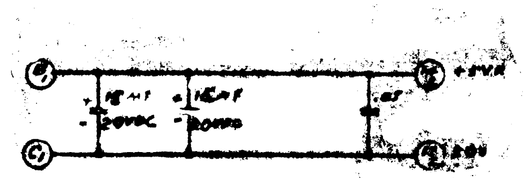
PART NUMBER: 1 — REV: — SIZE: C — DRAWING NUMBER: 6484











LOCATION	TYPE	WANG LAB. No.	TERM. No. Vcc +5VR	TERM. No. ±0V	QTY
L3,4,7	9936	376-0026	14	7	3
L1, 2	SN7474N	376-0015	5	12	2
L5	9602	376-0104	16	8	1
L10,8,9	9946	376-0023	14	7	3
L6	9963	376-0038	14	7	1

NOTE:-
1. ALL DIODES ARE WL380-1061 (QTY 40)
2. ALL RESISTORS ARE ¼W

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

MODEL No. 723

TITLE SCHEMATIC LOGIBLOC, TAPE READER

D 6586-1

DO NOT SCALE

PCD1 (1) PCD2 (A1) PCD3 (2) PCD4 (3) PCD5 (4) PCD6 (5)

L1, L6

COMPARE0 JUMP0 COMPARE1 JUMP1 COMPARE2 JUMP2 COMPARE3 JUMP3 COMPARE4 JUMP4 COMPARE5 JUMP5 JUMP6

L2, L3, L7, L8 — .003 capacitors

CO0 (C2) CO1 (B2) CO2 (A2) CO3 (S1) CO4 (P1) CO5 (M1)

L4, L9, L10, L11, L12

GC0 JMP0 GC1 JMP1 GC2 JMP2 GC3 JMP3 GC4 JMP4 GC5 JMP5

GI0B0F GI0B1F GI0B2F GI0A

L5

COT (P1) D1 (S2) D2 (R2) D4 (P2) D8 (M2) D10 (L2) RST (H2)

L14

JMP0 JMP1 JMP2 JMP3 JMP4 JMP5

READ — 1K +5VR — BUFFER STROBE (12/2)

L15, L13

STEP (N2) — RSE (H2)

RAC (B2)

1K +5V pull-ups

RESTART — L13 — .003 — 1K +5VR — RST

TRANS (9)1 GO (8)1 DP (7)1 CHANGE SIGN (6)1

B1: +15 MF 20VDC, +15 MF 20VDC, .05 .05 .05 .05 .05, .05 — (14/2) +5VR

C1: (12/2) ±0V

LOCATION	TYPE	W.L. PART NO.	TERM. NO Vcc +5VR	TERM. NO. ±0V	QTY.
L10,11	SN7402N	376-0016	14	7	2
L2,7	SN7404N	376-0010	14	7	2
L1,5,6	SN74145N	376-0069	16	8	3
L4,9	MC846	376-0023	14	7	2
L3,8, 13,14	9935	376-0025	14	7	4
L15	SN7406N	376-0055	14	7	1
L12	9936	376-0026	14	7	1

2. ALL RESISTORS ARE 1/4 W. (QTY. 4)
1. ALL DIODES ARE W.L. 380-1001. (QTY. 25)
NOTES

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

CONN. 1

PCD2	A 1	PCD1
+5VR	B 2	PCD3
0V	C 3	PCD4
	D 4	PCD5
	E 5	PCD6
	F 6	CHANGE SIGN
	H 7	DP
	J 8	GO
	K 9	TRANS
	L 10	
	M 11	
CO5	N 12	
CO4	P 13	
COT	R 14	
CO3	S 15	

CONN. 2

CO2	A 1	
CO1	B 2	
CO0	C 3	
GI0B0F	D 4	
GI0B1F	E 5	GI0B2F
GI0A	F 6	
RST	H 7	
RSP	J 8	RAC
XBR	K 9	
D10	L 10	
D8	M 11	
STEP	N 12	BUFFER STROBE
D4	P 13	0V
D2	R 14	+5VR
D1	S 15	

COMP. SIDE — WIRING SIDE

COMPONENT LAYOUT

L510

L5 L14 L13 L6 L9 L12 L3 L8 L11 L2 L7 L10 L4 L1 L15

S, R, P, N, M, L, K, J, H, F, E, D, C, B, A2 — S, R, P, N, M, L, K, J, H, F, E, D, C, B, A1

IDENT	QTY	NAME	MATERIAL	DESCRIPTION
			DR LK	DATE 9-24-73
			CHK	DATE
			APPD SKH	DATE 11/2/73

TOL EX. AS NOTED: .XX ±.010, ANG. ±0°30', .XXX ±.003, FRAC. ±1/64; FINISH:

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

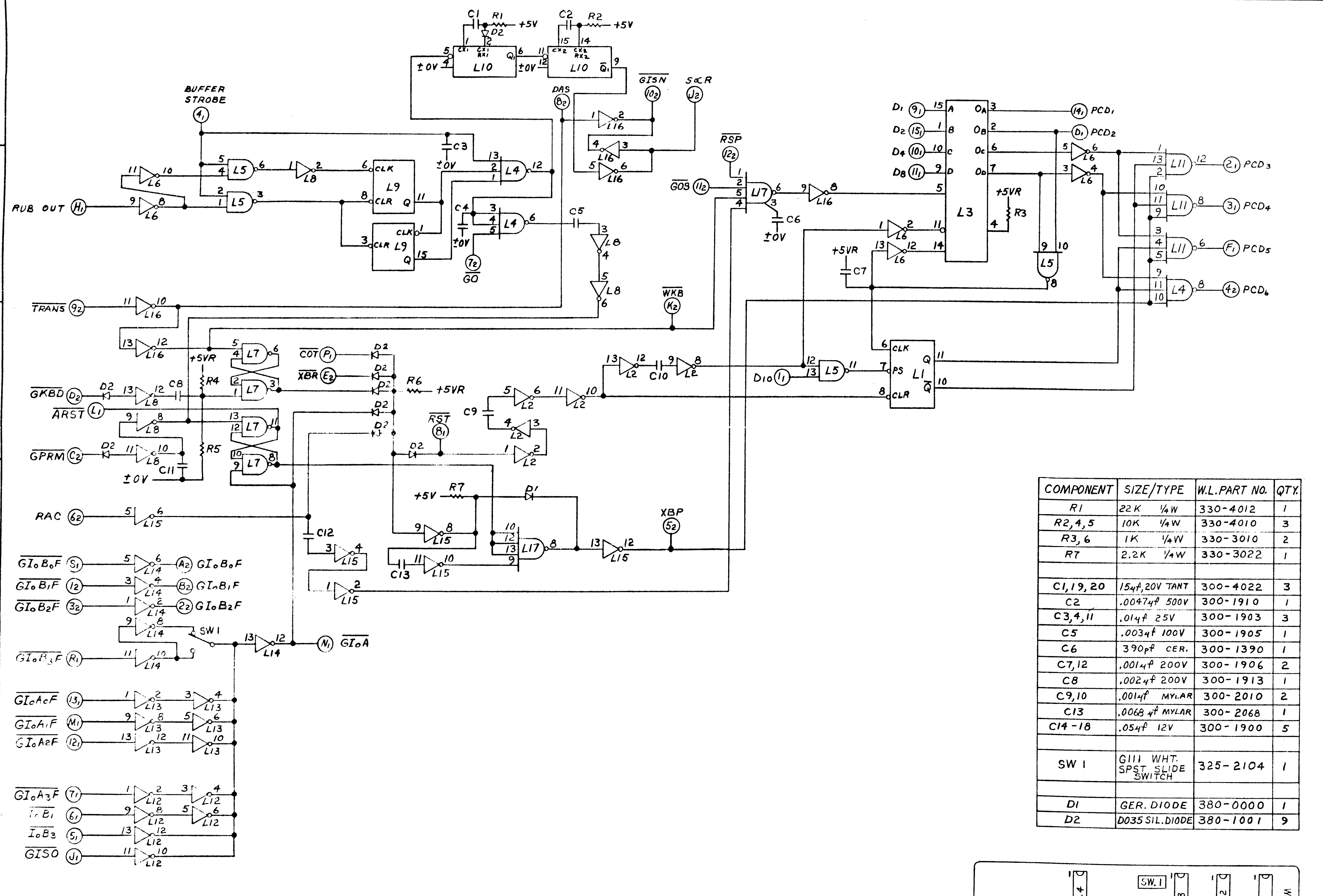
MODEL No. 633/733 | W.O. No. | SCALE | SHEET OF

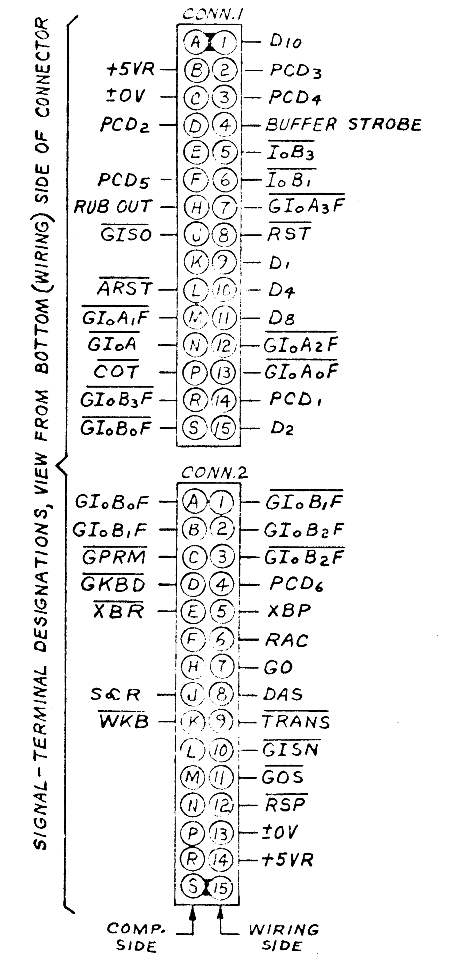
TITLE: SCHEMATIC LOGIBLOCK, PROGRAM COUNTER #L576

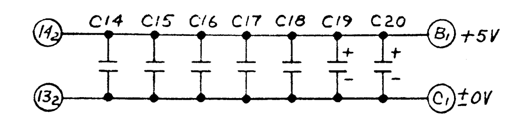
PART NUMBER | REV | D | 6487-1 SIZE | DRAWING NUMBER

NO.	REVISION	BY	DATE

D 6487-1

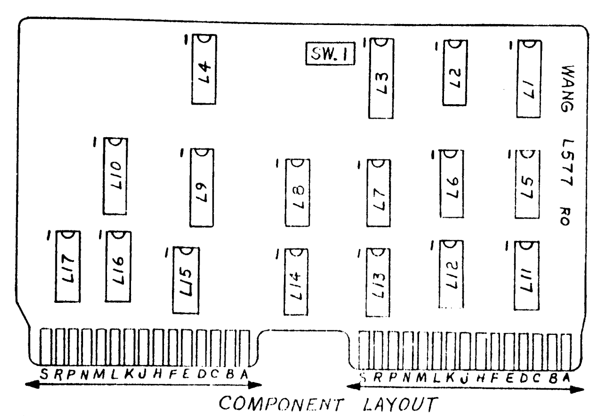






COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY.
R1	22K 1/4W	330-4012	1
R2,4,5	10K 1/4W	330-4010	3
R3,6	1K 1/4W	330-3010	2
R7	2.2K 1/4W	330-3022	1
C1,19,20	15μf, 20V TANT	300-4022	3
C2	.0047μf 500V	300-1910	1
C3,4,11	.01μf 25V	300-1903	3
C5	.003μf 100V	300-1905	1
C6	390pf CER.	300-1390	1
C7,12	.001μf 200V	300-1906	2
C8	.002μf 200V	300-1913	1
C9,10	.001μf MYLAR	300-2010	2
C13	.0068μf MYLAR	300-2068	1
C14-18	.05μf 12V	300-1900	5
SW 1	G111 WHT. SPST SLIDE SWITCH	325-2104	1
D1	GER. DIODE	380-0000	1
D2	D035 SIL. DIODE	380-1001	9

LOCATION	TYPE	W.L. PART NO.	TERM NO. ±0V	TERM NO. Vcc 5VR	QTY
L1,9	SN7476N	376-0007	13	5	2
L2,8,15	9935	376-0025	7	14	3
L3	SN74193N	376-0053	8	16	1
L4,11	SN7410N	376-0003	7	14	2
L5,7	SN7400N	376-0002	7	14	2
L6,12,13,14,16	9936	376-0026	7	14	5
L10	9602	376-0104	8	16	1
L17	9944	376-0024	7	14	1



COMPONENT LAYOUT

REVISION: 1 — KEYPER E.N-3335 APP'D

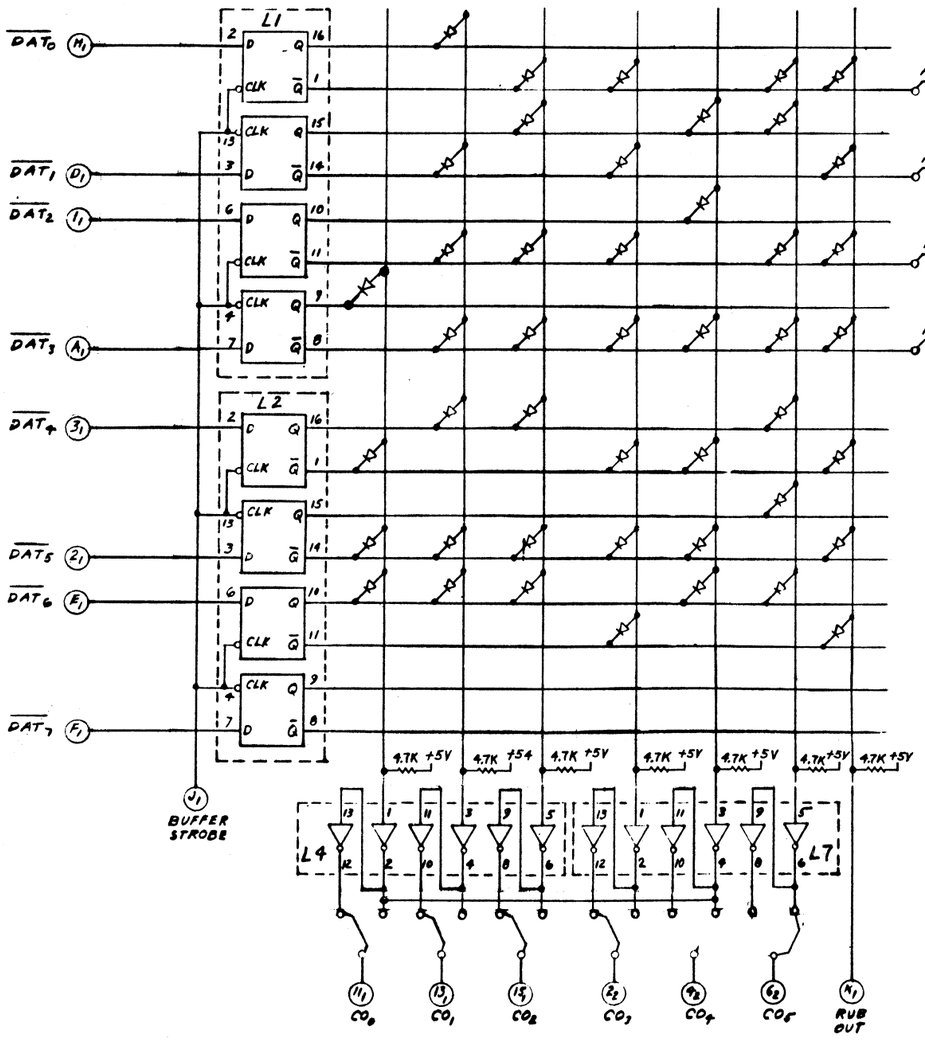
WANG LABORATORIES INC.
TEWKSBURY, MASS.

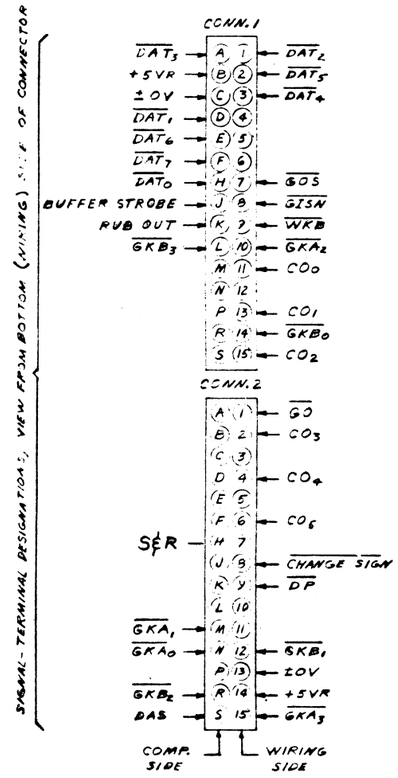
MODEL NO. 633/733

TITLE: SCHEMATIC LOGIBLOC # L577 ADDRESS & PROGRAM COUNTER

DWG. NO. D 6488-1 REV 1

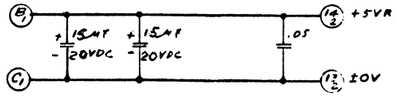
DO NOT SCALE



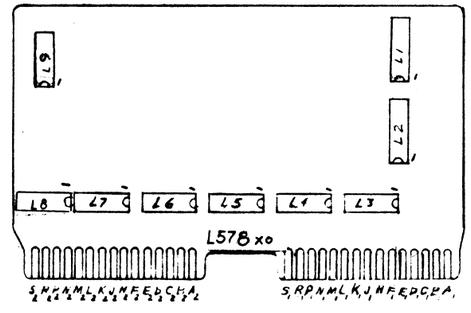


LOCATION	TYPE	WANG LAB. No.	TERM. No Vcc +5VR	TERM. No ±0V	QTY
L3,4,7	9936	376-0026	14	7	3
L1, 2	SN7475N	376-0013	5	12	2
L 8,9	9946	376-0023	14	7	2
L6	9963	376-0033	14	7	1
L5	9602	376-0104	16	8	1

NOTE:-
1. ALL DIODES ARE WL380-1001 (QTY #0)
2. ALL RESISTORS ARE ¼ W



COMPONENT LAYOUT



BY	DATE	REVISION

IDENT	QTY	NAME	MATERIAL	DESCRIPTION

TOL. EX. AS NOTED .XX ±.010 .XXX ±.005 ANG. 29'30" FRAC. ±1/64 FINISH

MATERIAL

FINISH

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

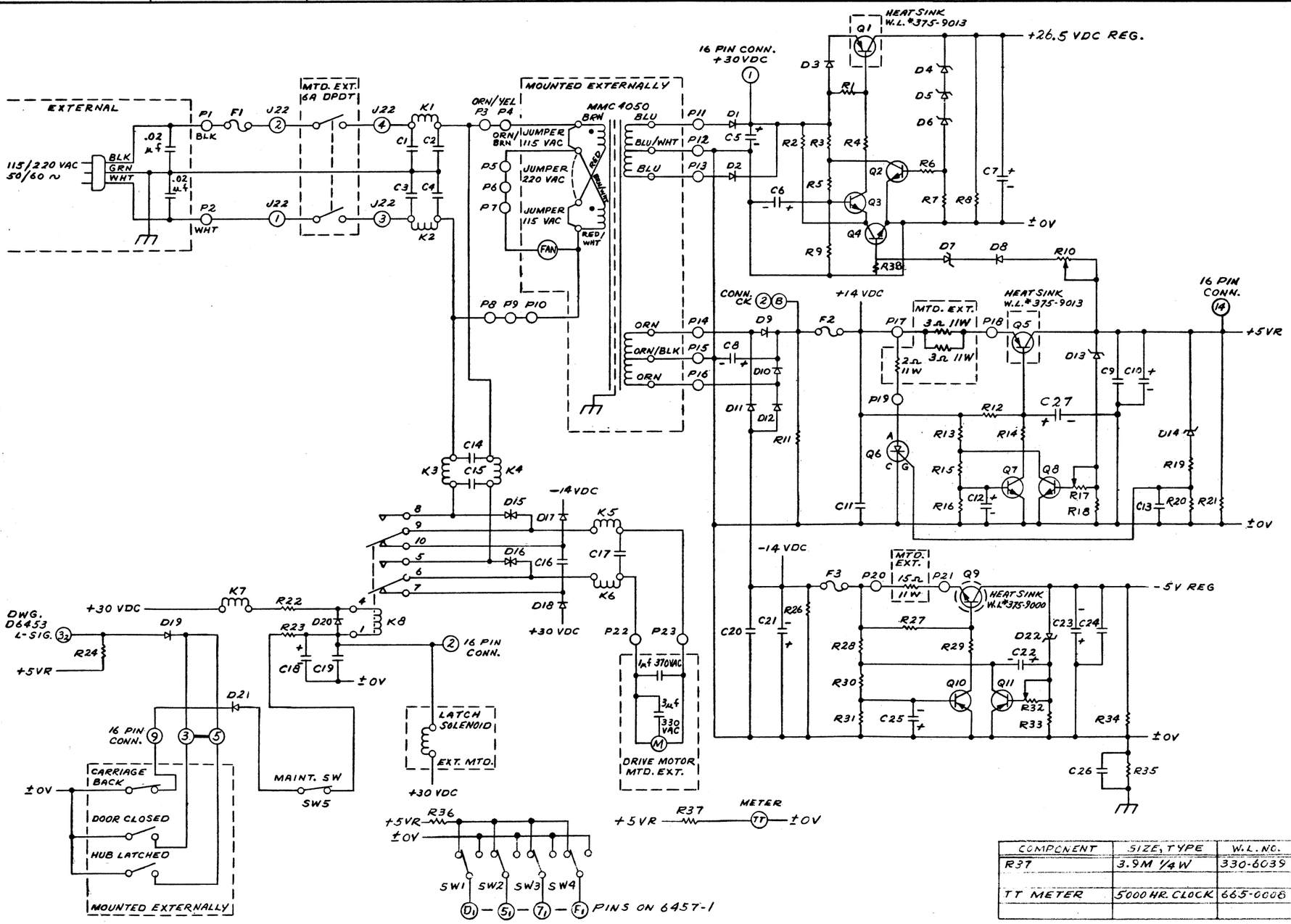
DR SK DATE 9-27-73
CHK DATE
APPD SK DATE 10/21/73

MODEL No. 733 W.O. No. SCALE SHEET OF

TITLE SCHEMATIC LOGIBLOC, TAPE PROGRAM #L578

PART NUMBER REV SIZE D DRAWING NUMBER 6489-1

D 6489-1



COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1,6,12,27,29	1K ¼W	330-3010	5
R2,11,24, 26	10K ¼W	330-4010	4
R3,36	3.3K ¼W	330-3033	2
R4,16,31	2.2K ¼W	330-3022	3
R5	220Ω ¼W	330-2022	1
R9	4.7K ¼W	330-3047	1
R8	1K 2W	337-3010	1
R10	2K HELIPOT	336-1011	1
R13,28	680Ω ¼W	330-2068	2
R14,21	33Ω 2W	337-1033	2
R15,30, 38	100Ω ¼W	330-2010	3
R17,32	10K TRIMPOT	336-1010	2
R7,18,20,33	47Ω ¼W	330-1048	4
R19	33Ω ¼W	330-1033	1
R22	100Ω 2W	337-2010	1
R23	50Ω 5W	334-0013	1
R34	470Ω ¼W	330-2047	1
R35	100K ¼W	330-5010	1
C1,2,3,4,14,15,16,17	.02µf 1400V	300-1916	8
C5	7000µf 35V	300-3024	1
C6,12,25	1µf 15V	300-3000	3
C7	50µf 50V	300-3010	1
C8	25000µf 25V	300-3022	1
C9,13,24	.22µf 12V	300-1902	3
C10,19,20	.01µf 25V	300-1903	3
C11,23	10µf 15V	300-3006	2
C18	35µf 15V.	300-3009	1
C21	6000µf 20V	300-3019	1
C22	100µµf	300-1100	1
C26	.02µf 600V±20%	300-1912	1
D1,2,9,10,11,12	IN4719 RECT.	380-3002	6
D3,8,19,20,21	IN4607 (IN4448)	380-1005	5
D4	IN4735A 6.2V ZENER	380-2063	1
D5,6	IN758A 10V ZENER	380-2100	2
D7	IN749A 4.2V ZENER	380-2042	1
D13,22	IN748A 3.9V ZENER	380-2039	2
D14	IN751A 5.1V ZENER	380-2051	1
D15,16	6RSR05P9B9 THYR.	380-4004	2
D17,18	IN3255 RECT.	380-3001	2
Q1	2N1540 GERM.	375-0007	1
Q5	2N6246	375-1029	1
Q6	MCR406-2 THYRISTOR	375-3000	1
Q7,8,9,2,3,4	2N5189 SIL	375-1021	6
Q10,11	GT544 SIL.	375-1018	2
C27	.1µf 100V	300-2210	1
F1	2 AMP FUSE SB	360-10205B	1
F2	5 AMP FUSE	360-1050	1
F3	½ AMP FUSE	360-1005	1
F1,2,3 CLIPS	100-200-4A-1	360-0002	6
K1,2,3,4,5,6,7	22µh CHOKE	300-0000	7
K8	SIGMA 70R2-12DC/SCD	320-0045	1
K8 SOCKET	AD-67 SIGMA	341-0019	1
SW1 THRU SW5	115D SPDT SW	325-0006	5
HS-1	HEAT SINK	375-9013	2
P1 THRU P23	42506-2 AMP TERM.	654-0049	23
J1 THRU J21	225-21521-110 CONN.	350-0011	21
J22	5304-AB CONN.	654-0054	1
J23	I.C. 16 PIN SOCKET	376-9005	1

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R37	3.9M ¼W	330-6039	1
TT METER	5000 HR. CLOCK	665-0008	1

NO.	REVISION	BY	DATE
1	REVISED: PER E.C.#3037 APP'D.	J.F.	9/5
2	REVISED: PER E.C.#3252 APP'D.	J.F.	10/5
3	REVISED: PER E.C.#3370 APP'D.	J.F.	11/5
4	REVISED: PER E.C.#3419 APP'D.	J.F.	12/5
5	REVISED: PER E.C.#3459 APP'D.	J.F.	1/5
6	REVISED: PER E.C.#3466 APP'D.	J.F.	2/5
7	REVISED: PER E.C.#3528 APP'D.	J.F.	2/5
8	REVISED: PER E.C.#3546 APP'D.	J.F.	4/5
9	REVISED: PER E.C.#3575 APP'D.	J.F.	5/5
10	R.F.A. NO. (0114 FOR REVISION TO THIS RFA APP'D.	J.F.	6/5
11	REVISED: PER R.F.A.#0118 APP'D.	J.F.	6/5

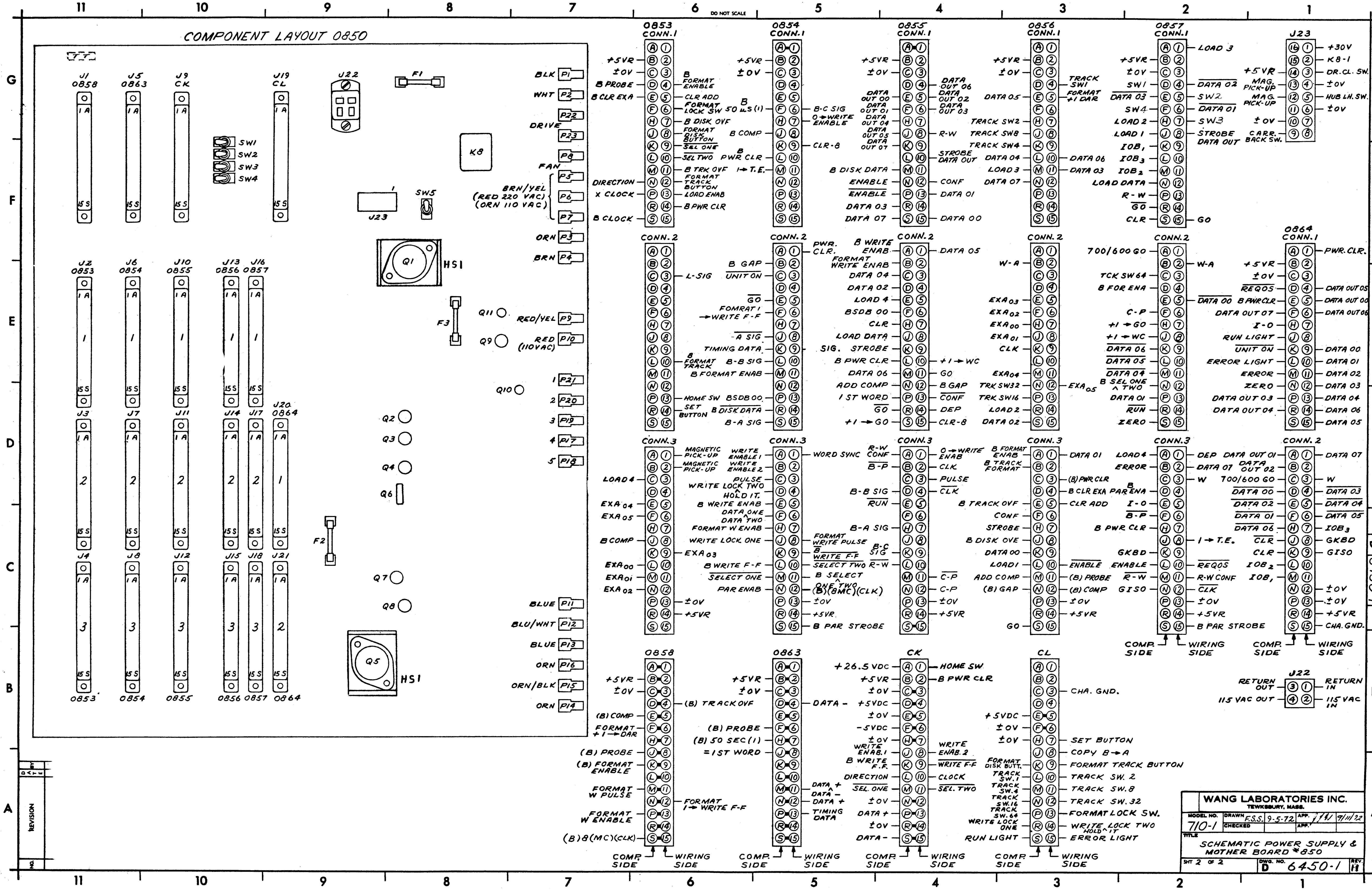
WANG LABORATORIES INC.
TEWKSBURY, MASS.

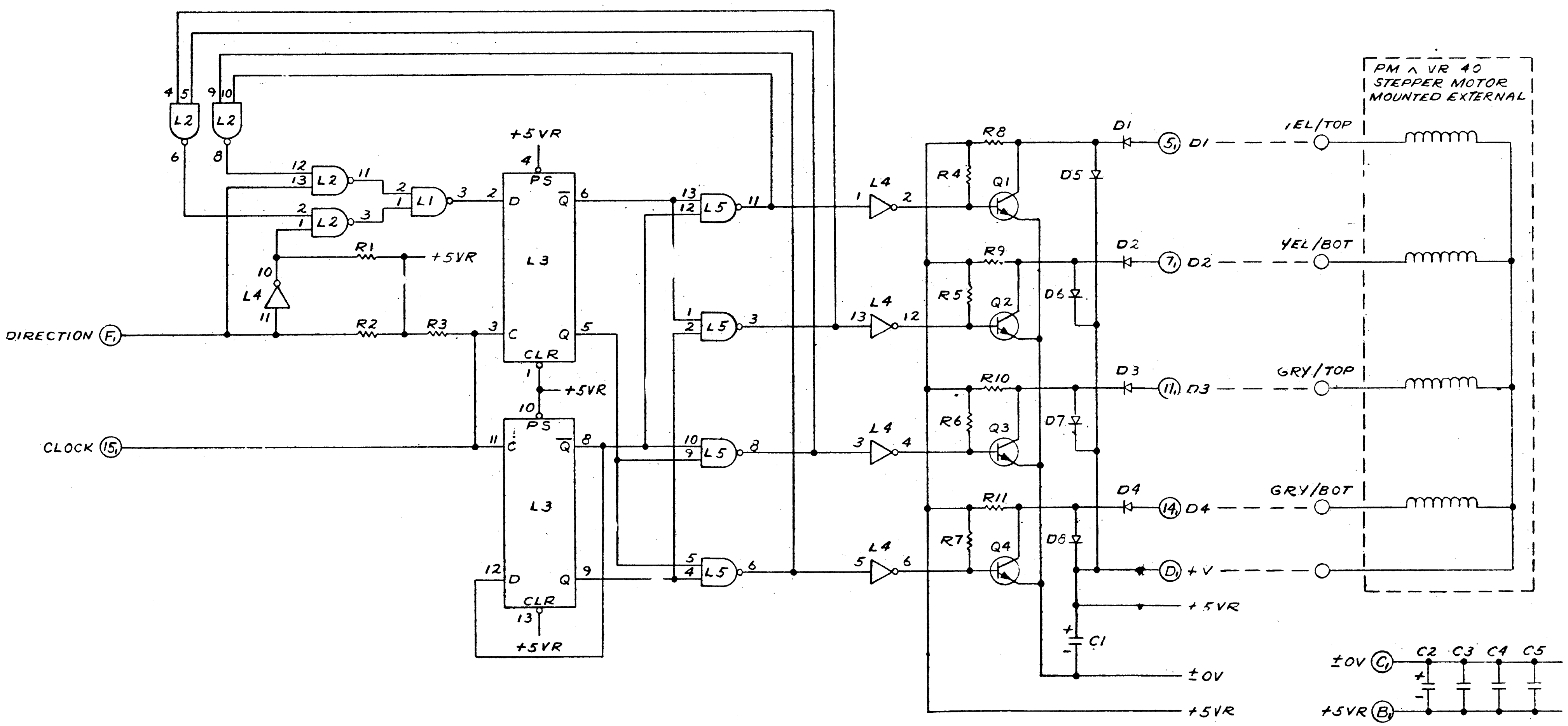
MODEL NO. 710-1 | DRAWN F.S.S. 9-5-72 | APP. | CHECKED | APP.

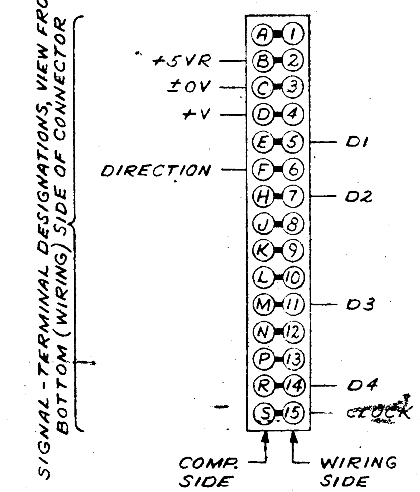
TITLE: SCHEMATIC POWER SUPPLY & MOTHER BOARD #0850

SHT 1 OF 2 | DWG. NO. D 6450-1 | REV 11

D 6450-1


COMPONENT LAYOUT 0850
DO NOT SCALE
J1 0858
J5 0863
J9 CK
J19 CL
J22
F1
K8
SW1
SW2
SW3
SW4
SW5
J23
Q1
HS1
F3
Q11
Q9
Q10
J2 0853
J6 0854
J10 0855
J13 0856
J16 0857
J3
J7
J11
J14
J17
J20 0864
J4
J8
J12
J15
J18
J21
Q2
Q3
Q4
Q6
F2
Q7
Q8
Q5
BLK P1
WHT P2
DRIVE P22 P23
FAN P8
BRN/YEL (RED 220 VAC) (ORN 110 VAC) P5 P6 P7
ORN P3
BRN P4
RED/YEL P9
RED (110VAC) P10
BLUE P11
BLU/WHT P12
BLUE P13
ORN P16
ORN/BLK P15
ORN P14
0853 CONN.1
0854 CONN.1
0855 CONN.1
0856 CONN.1
0857 CONN.1
J23
0864 CONN.1
CONN.2
CONN.3
0858
0863
CK
CL
J22
COMP. SIDE
WIRING SIDE
RETURN OUT
RETURN IN
115 VAC OUT
115 VAC IN
REVISION
WANG LABORATORIES INC.
TEWKSBURY, MASS.
MODEL NO. 710-1
DRAWN F.S.S. 9-5-72
CHECKED
TITLE SCHEMATIC POWER SUPPLY & MOTHER BOARD #850
SHT 2 OF 2
DWG. NO. D 6450-1
REV. H
D 6450-1

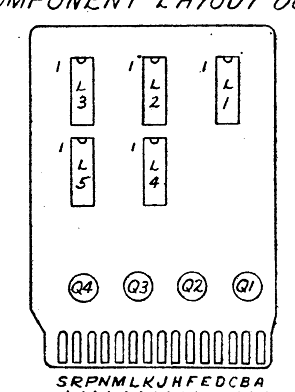




I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1,2,5	SN7400N	376-0002	7	14	3
L3	SN7474N	376-0006	7	14	1
L4	SN7406N	376-0055	7	14	1

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1	4.7K 1/4W	330-3047	1
R2,3,8,9,10,11	1K 1/4W	330-3010	6
R4,5,6,7	180Ω 1/4W	330-2018	4
C1	TANT. 18µf 15V	300-4018	1
C2	100µf 15V	300-3011	1
C3,4,5	.001µf 200V	300-1906	3
Q1,2,3,4	2N5189 SIL.	375-1021	4
D1,2,3,4,5,6,7,8	1N4607(1N4448)	380-1005	8

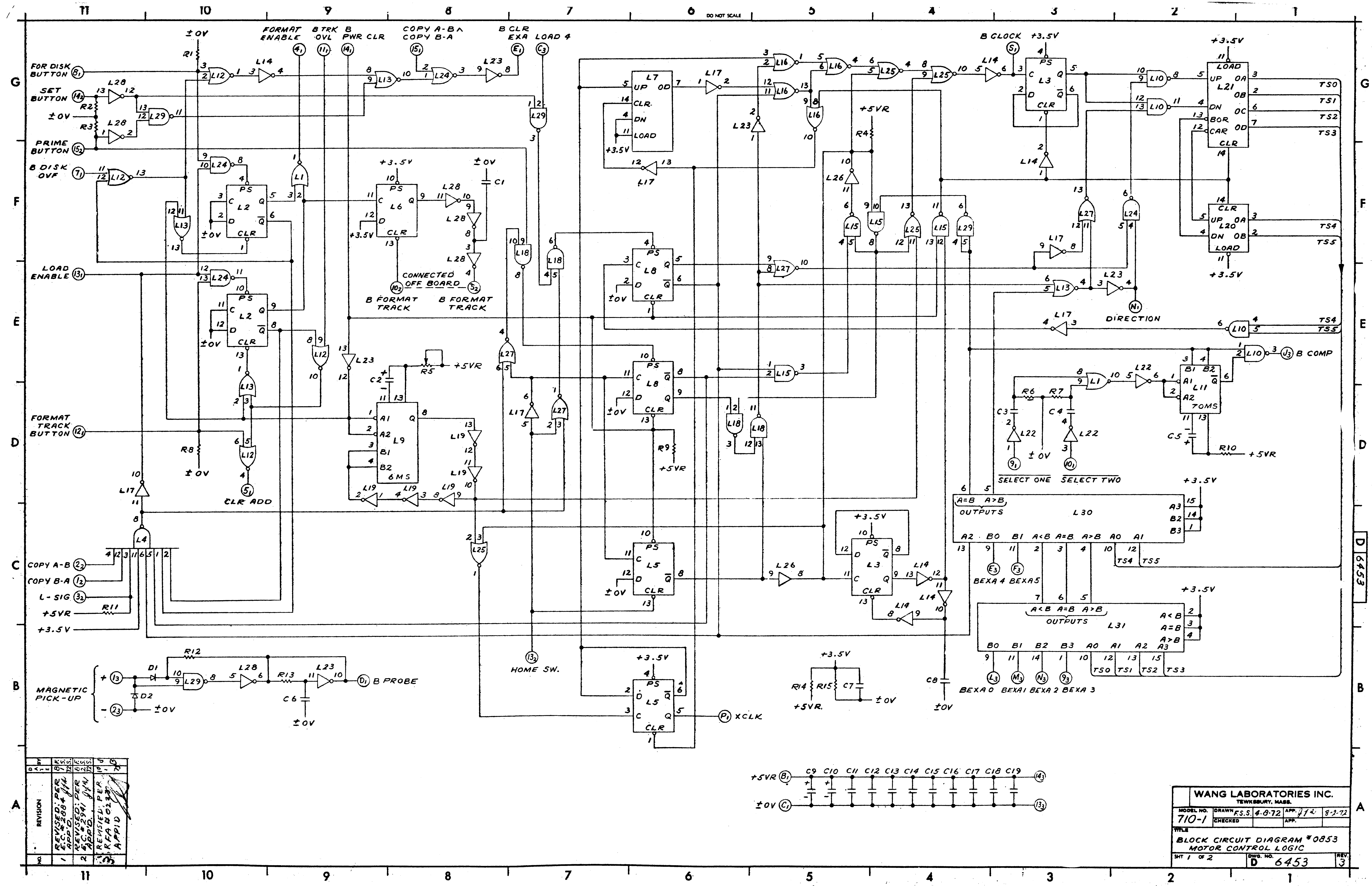
COMPONENT LAYOUT 0851



REVISION

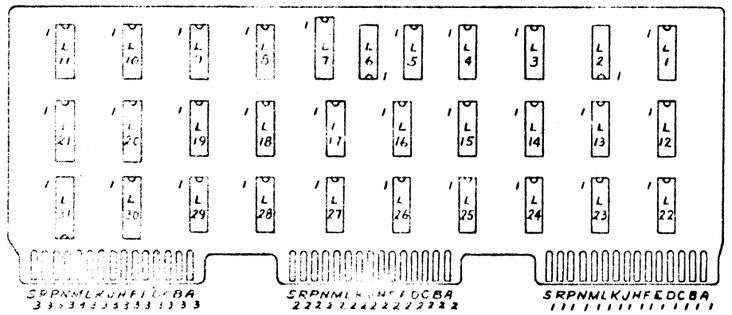
WANG LABORATORIES INC. TEWKSBURY, MASS.			
MODEL NO. 710-1	DRAWN F.S.S. 4-24-72	APP.	8-3-72
	CHECKED	APP.	
TITLE BLOCK CIRCUIT DIAGRAM #0851 STEPPER MOTOR DRIVE			
SHT 1 OF 1	DWG. NO. D 6451		REV. 1

D 6451

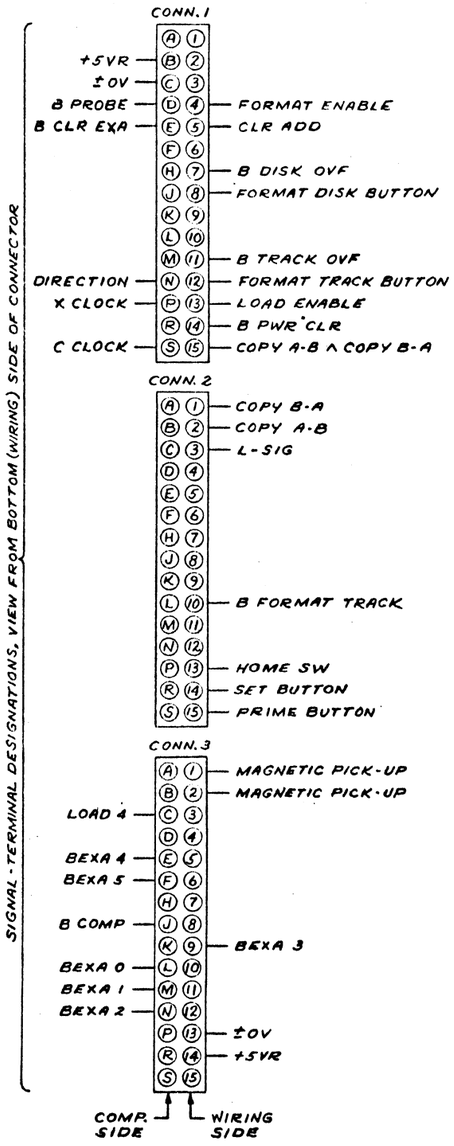


DO NOT SCALE
FOR DISK BUTTON
SET BUTTON
PRIME BUTTON
B DISK OVF
LOAD ENABLE
FORMAT TRACK BUTTON
FORMAT ENABLE
8 TRK OVL
B PWR CLR
COPY A-B
COPY B-A
B CLR EXA
LOAD 4
B CLOCK
CONNECTED OFF BOARD
B FORMAT TRACK
CLR ADD
COPY A-B
COPY B-A
L-SIG
DIRECTION
B COMP
SELECT ONE
SELECT TWO
HOME SW.
MAGNETIC PICK-UP
B PROBE
XCLK
BEXA 4 BEXA 5
BEXA 0 BEXA 1 BEXA 2 BEXA 3
REVISION
REVISED: PER E.C.#2884
REVISED: PER E.C.#2941
REVISED: PER RFA #0217
WANG LABORATORIES INC.
TEWKSBURY, MASS.
MODEL NO. 710-1
DRAWN F.S.S. 4-8-72
APP. 8-3-72
BLOCK CIRCUIT DIAGRAM #0853
MOTOR CONTROL LOGIC
SHT 1 OF 2
DWG. NO. D 6453
REV. 3

COMPONENT LAYOUT 0853



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



I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1,12,13,16,25,27	SN7402N	376-0016	7	14	6
L2,3,5,6,8	SN7474N	376-0064	7	14	5
L4	SN7430N	376-0031	7	14	1
L7,20	SN74193N	376-0053	8	16	2
L9,11	F9601	376-0044	7	14	2
L10,15,18,24,29	SN7400N	376-0002	7	14	5
L14,17,19,22,23,28	SN7404N	376-0010	7	14	6
L21	SN74121N	376-0051	7	14	1
L26	SN7407N	376-0076	7	14	1
L30,31	SN7495N	376-0087	8	16	2

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1,2,3,8,13	100Ω ¼W	330-2010	5
R4,11	3.3K ¼W	330-3033	2
R5	20K POT.	333-0025	1
R6,7	470Ω ¼W	330-2047	2
R9	2K 2%	333-0007	1
R10	10K ¼W	330-4010	1
R12	10K ¼W 1%	333-0038	1
R14	270Ω ¼W	330-3027	1
R15	1K ¼W	330-3010	1
C1,8	1000μμf 15V	300-5006	2
C2	1μf 15V	300-3006	1
C3,4, 7,11,12,13,14,15,16,17,18,19	.01μf 25V	300-1903	12
C5	33μf 25V TANT.	300-4029	1
C6	470μμf 500V	300-5005	1
C9,10	35μf 15V	300-3009	2
D1,2	IN4607(IN4446)	380-1005	2

REVISION	DATE
9	

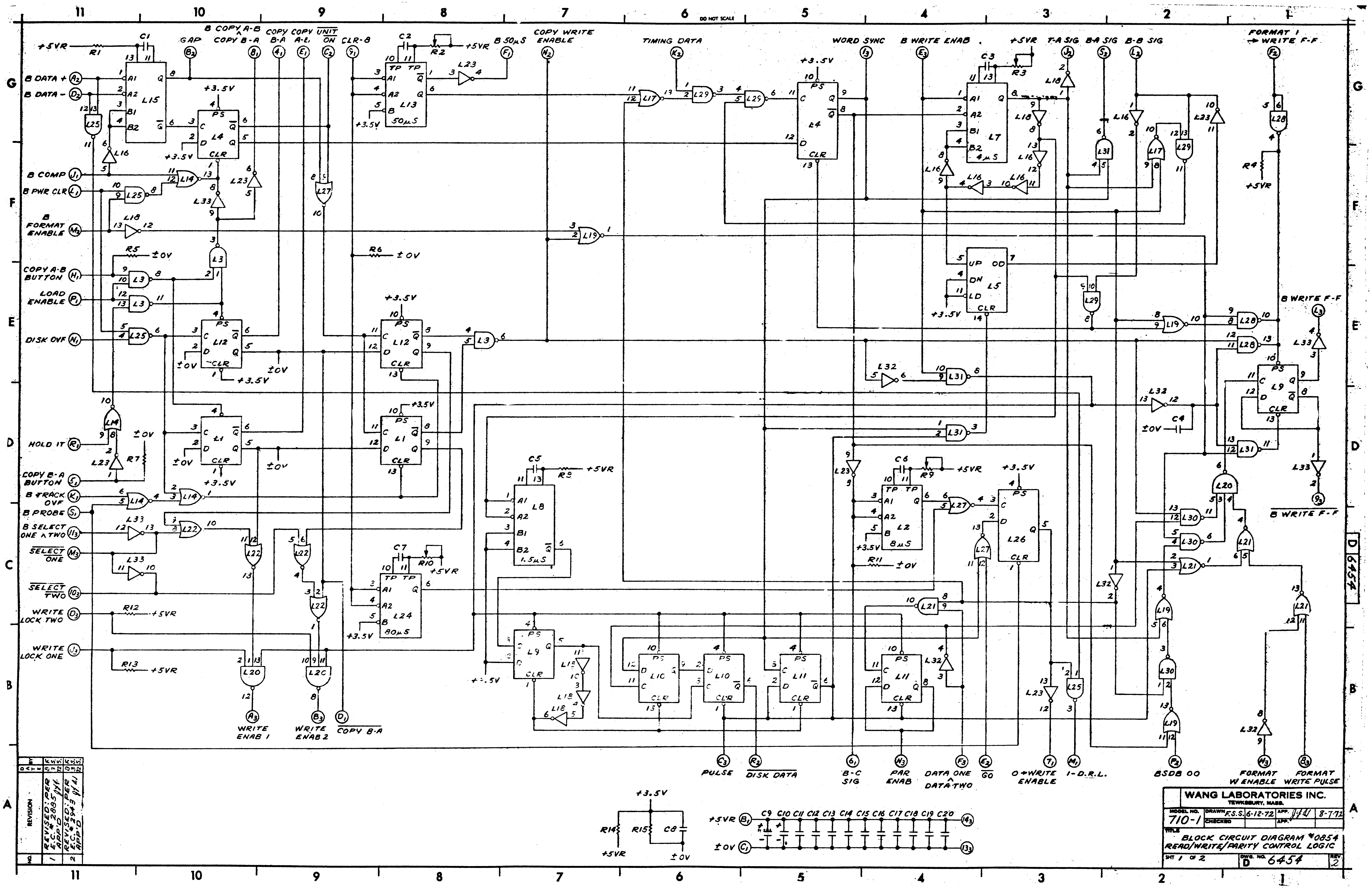
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	4-10-72	APP.	
710-1	CHECKED		APP.	

TITLE: BLOCK CIRCUIT DIAGRAM *0853 MOTOR CONTROL LOGIC

SHT 2 OF 2 | DWG. NO. D 6453 | REV. 9

D 6453

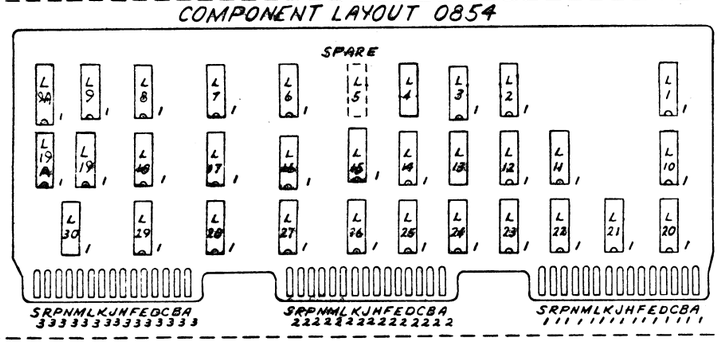

B DATA +
B DATA -
B COMP
B PWR CLR
B FORMAT ENABLE
COPY A-B BUTTON
LOAD ENABLE
DISK OVF
HOLD IT
COPY B-A BUTTON
B TRACK OVF
B PROBE
B SELECT ONE ^ TWO
SELECT ONE
SELECT TWO
WRITE LOCK TWO
WRITE LOCK ONE
GAP
B COPY A-B ^ COPY B-A
COPY B-A
COPY A-B
UNIT ON
CLR-B
B 50μS
COPY WRITE ENABLE
TIMING DATA
WORD SYNC
B WRITE ENAB
T-A SIG
B-A SIG
B-B SIG
FORMAT 1 → WRITE F-F
B WRITE F-F
WRITE ENAB 1
WRITE ENAB 2
COPY B-A
PULSE
DISK DATA
B-C SIG
PAR ENAB
DATA ONE ^ DATA TWO
GO
0 → WRITE ENABLE
1-D.R.L.
BSDB 00
FORMAT W ENABLE
FORMAT WRITE PULSE
DO NOT SCALE
REVISION
REVISED: PER E.C.# 2885
REVISED: PER E.C.# 2943 APP'D
WANG LABORATORIES INC.
TEWKSBURY, MASS.
MODEL NO. 710-1
DRAWN F.S.S. 6-12-72
CHECKED
APP. 8-7-72
TITLE
BLOCK CIRCUIT DIAGRAM #0854
READ/WRITE/PARITY CONTROL LOGIC
SHT 1 OF 2
DWG. NO. D 6454
REV 2
D 6454

DO NOT SCALE

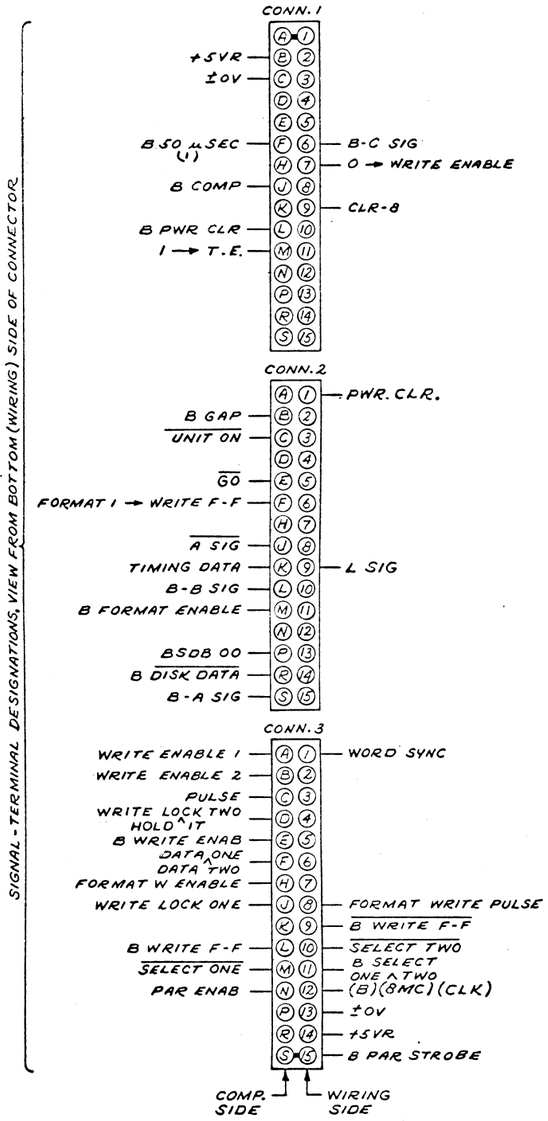
I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1,4,6,10,12,21	F9601	376-0086	7	14	6
L2,7.8,9,23	SN7474N	376-0006	7	14	5
L3,9A	SN74193N	376-0053	8	16	2
L5	SPARE				
L11,14,16,18,24	SN7402N	376-0016	7	14	5
L15,19.20,29	SN7404N	376-0010	7	14	4
L17	SN7410N	376-0003	7	14	1
L19A	SN7473N	376-0005	11	4	1
L13,22,26,27,28,30	SN7400N	376-0002	7	14	6
L25	SN7401N	376-0015	7	14	1

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1.2.4.6	10K 1/4W 1%	333-0038	4
R3,12	1K 1/4W 10%	330-3010	2
R5	47K 1/4 W 10%	330-4047	1
R7,8	20K POT. (BOURNS)	336-0028	2
R9,10	3.3K 1/4W 10%	330-3033	2
R11	270Ω 1/4W 10%	330-2027	1
C1	.22μf 100V 10%	300-1926	1
C2	.015μf 500V 5%	300-5009	1
C3,10,13,14,15,16,17, 18,19,20,21,22	.01μf 15V	300-1903	12
C4	.001μf 200V	300-1906	1
C5	33μf 10V TANT.	300-4024	1
C6	.0022μf 100V 5%	300-5012	1
C7	.047μf 500V 5%	300-5011	1
C8	330μμf 500V 5%	300-5007	1
C9	470μμf 500V 5%	300-5005	1
C11,12	35μf 15V	300-3009	2

COMPONENT LAYOUT 0854



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



REV	REVISION
7	

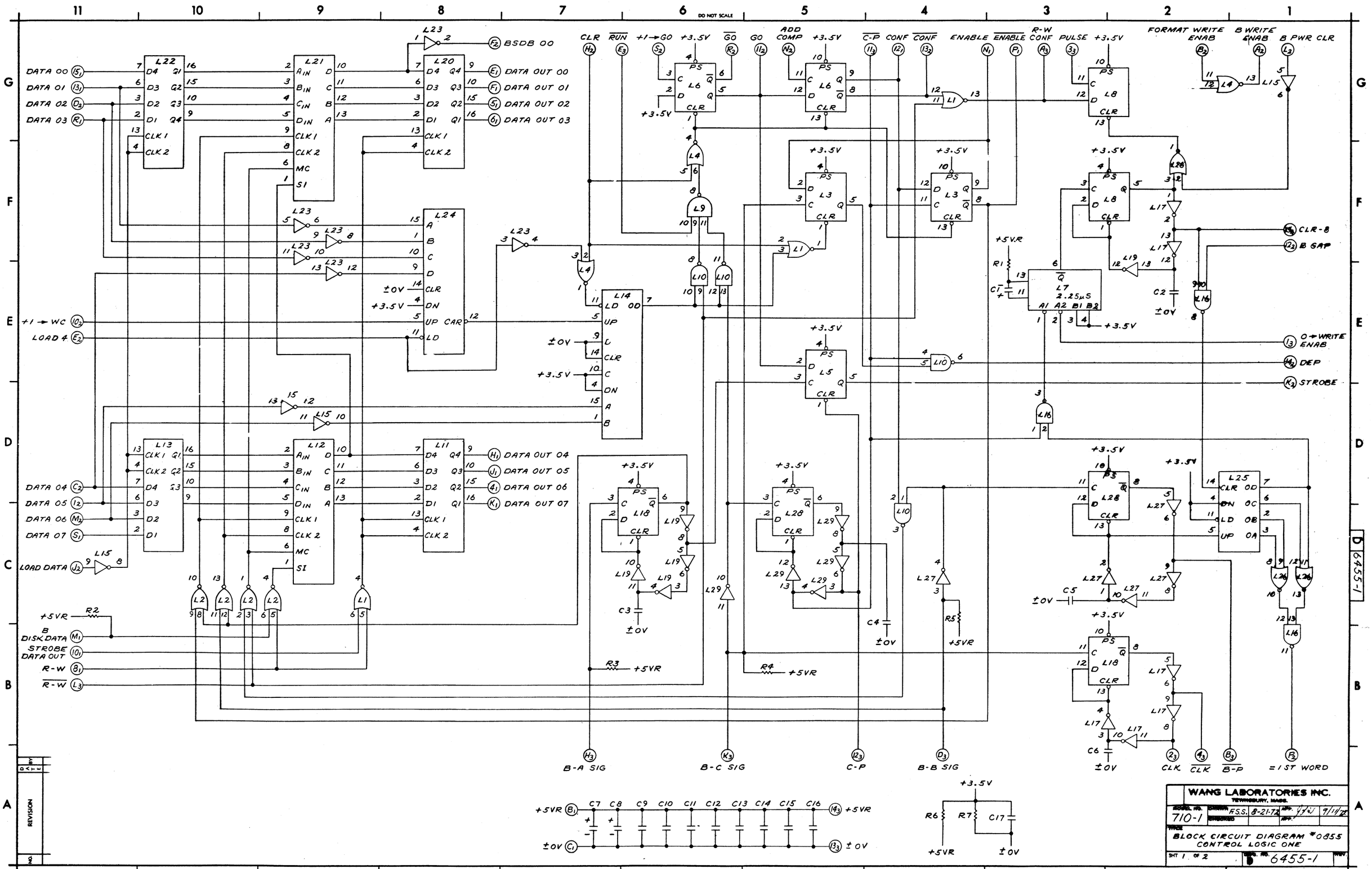
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 710-1

TITLE BLOCK CIRCUIT DIAGRAM *0854 READ/WRITE/PARITY CONTROL LOGIC

SHT 2 OF 2 | DWG. NO. D 6454-1 | REV 7

D 6454-1



WANG LABORATORIES INC.	TEWKSBURY, MASS.
MODEL NO. 710-1	DRAWN F.S.S. 8-21-72
TITLE	BLOCK CIRCUIT DIAGRAM #0855 CONTROL LOGIC ONE
SHT 1 OF 2	DWG. NO. 6455-1

D 6455-1

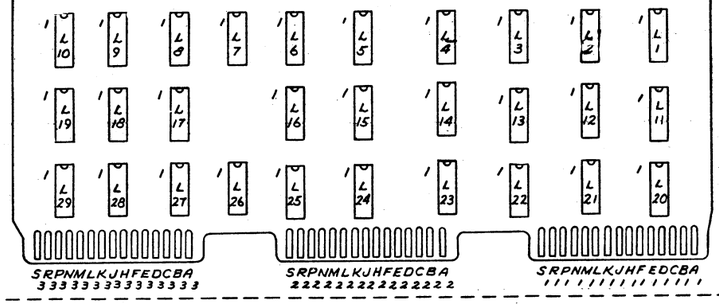
REVISION

DO NOT SCALE

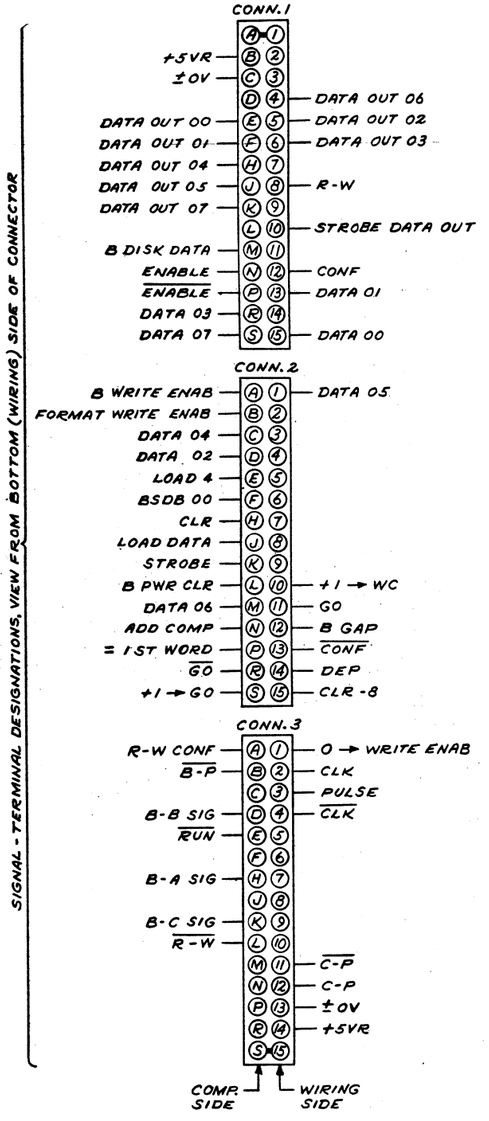
I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1,2,4,26	SN7402N	376-0016	7	14	4
L3,5,6,8,18,28	SN7474N	376-0006	7	14	6
L7	F9601	376-0086	7	14	1
L9	SN7410N	376-0003	7	14	1
L10,16	SN7400N	376-0002	7	14	2
L11,13,20,22	SN7475N	376-0013	12	5	4
L12,21	SN7495N	376-0059	7	14	2
L14,24,25	SN74193N	376-0053	8	16	3
L15,17,19,23,27,29	SN7404N	376-0010	7	14	6

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1	10K ¼W 1%	333-0038	1
R2,3,4,5,7	1K ¼W 10%	330-3010	5
R6	270Ω ¼W 10%	330-3027	1
C1	680μμf 500V 5%	300-5003	1
C2	1000μμf 15V 5%	300-5006	1
C3,4,5,6	470μμf 100V 5%	300-5005	4
C7,8	35μf 15V	300-3009	2
C9,10,11,12,13,14, 15,16,17	.01μf 15V	300-1903	9

COMPONENT LAYOUT 0855



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



NO.	REVISION	BY	DATE

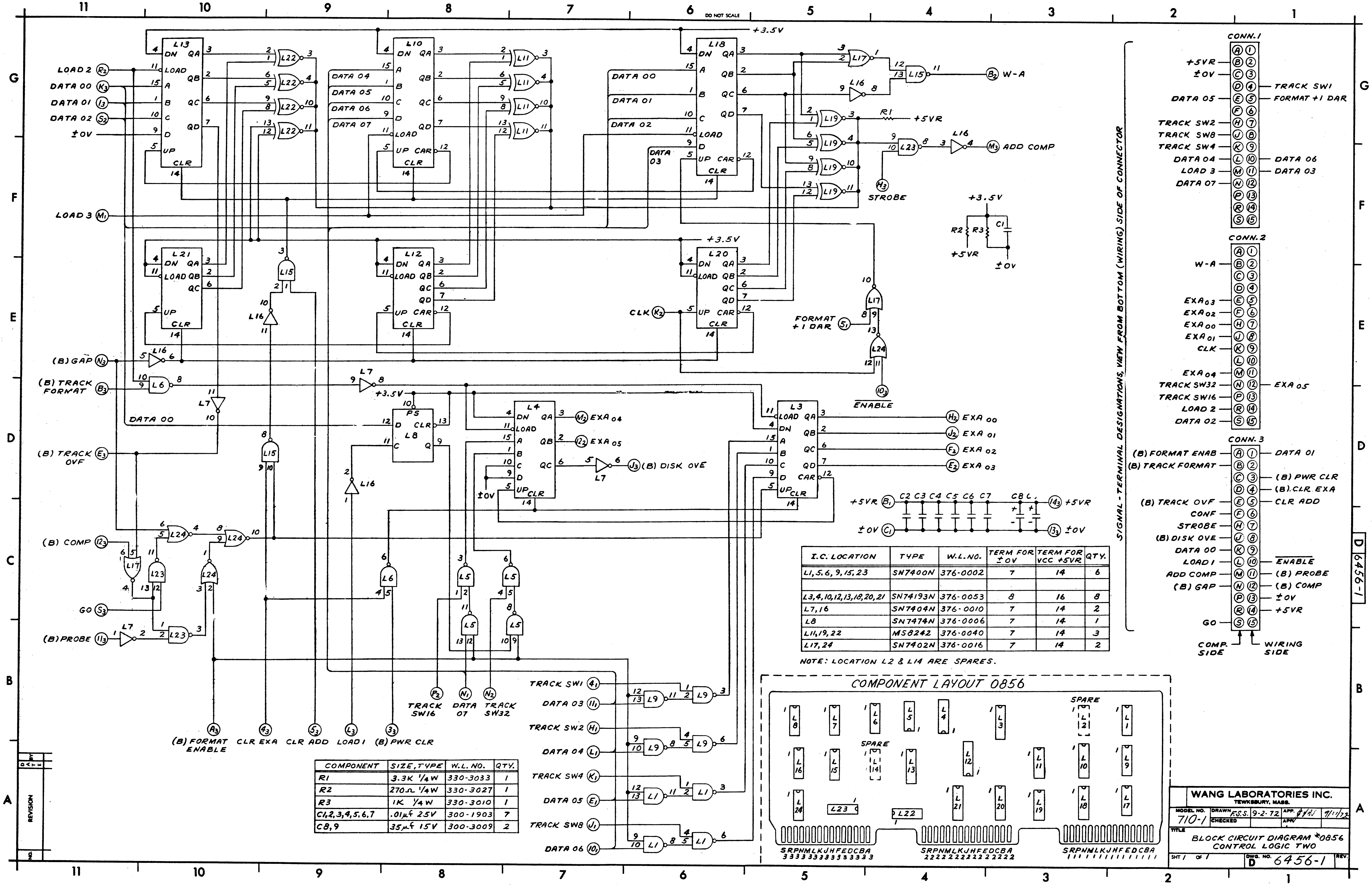
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	CHECKED	APP.	APP.
710-1	F.S.S. 6-21-72			9/11/72

TITLE
BLOCK CIRCUIT DIAGRAM * 855
CONTROL LOGIC ONE

SHT 2 OF 2	DWG. NO. D 6455-1	REV.

D 6455-1



I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1,5,6,9,15,23	SN7400N	376-0002	7	14	6
L3,4,10,12,13,18,20,21	SN74193N	376-0053	8	16	8
L7,16	SN7404N	376-0010	7	14	2
L8	SN7474N	376-0006	7	14	1
L11,19,22	MC8242	376-0040	7	14	3
L17,24	SN7402N	376-0016	7	14	2

NOTE: LOCATION L2 & L14 ARE SPARES.

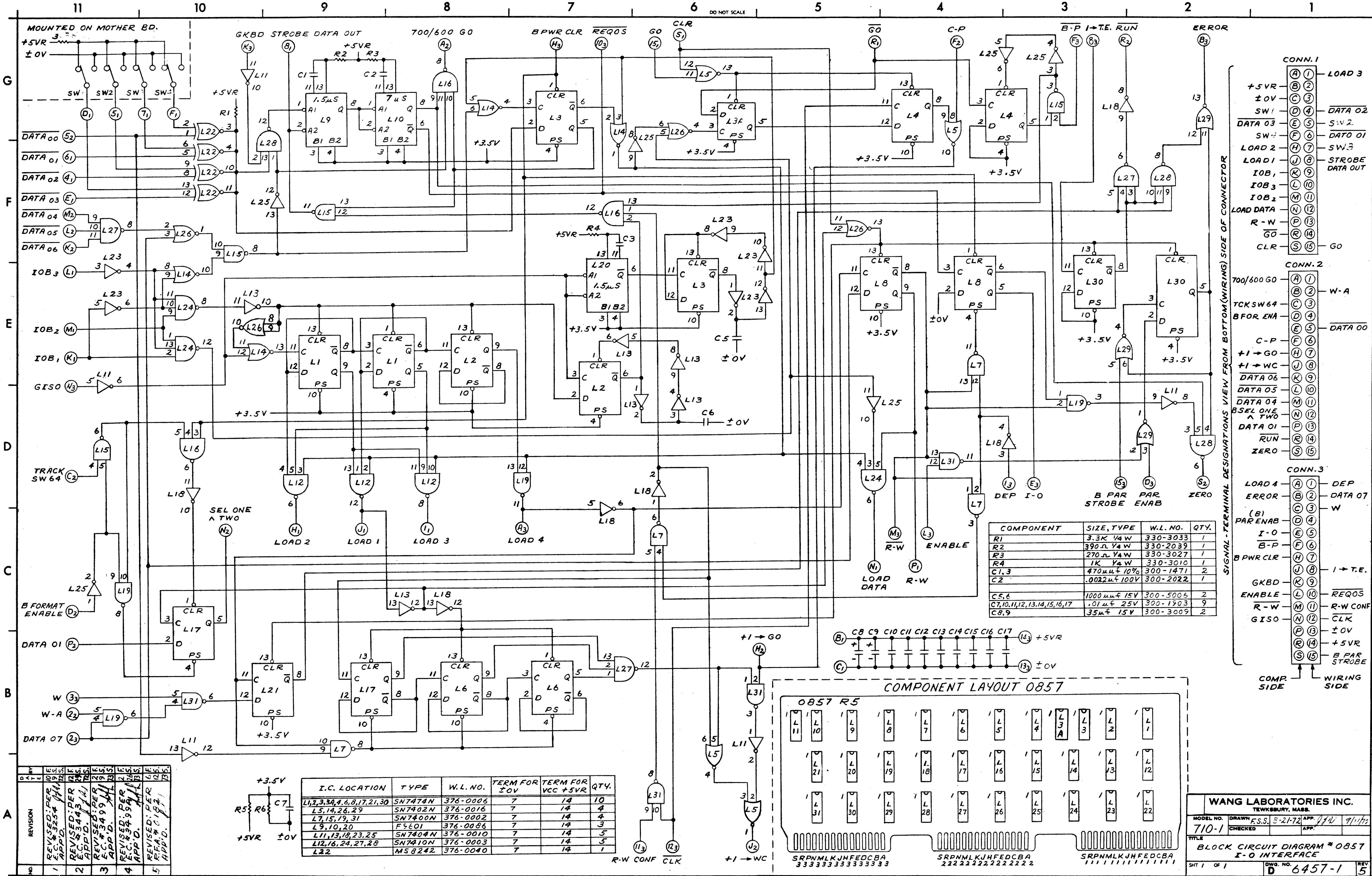
COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1	3.3K 1/4W	330-3033	1
R2	270Ω 1/4W	330-3027	1
R3	1K 1/4W	330-3010	1
C1,2,3,4,5,6,7	.01μf 25V	300-1903	7
C8,9	35μf 15V	300-3009	2

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 710-1 | DRAWN F.S.S. 9-2-72 | CHECKED | APP. 9/11/72

TITLE: BLOCK CIRCUIT DIAGRAM #0856 CONTROL LOGIC TWO

SHT 1 OF 1 | D | DWG. NO. 6456-1



MOUNTED ON MOTHER BD.
GKBD STROBE DATA OUT
700/600 GO
B PWR CLR
REQOS
GO
CLR
GO
C-P
B-P
1→T.E.
RUN
ERROR
DATA 00
DATA 01
DATA 02
DATA 03
DATA 04
DATA 05
DATA 06
IOB 3
IOB 2
IOB 1
GISO
TRACK SW64
B FORMAT ENABLE
DATA 01
W
W-A
DATA 07
SEL ONE ∧ TWO
LOAD 2
LOAD 1
LOAD 3
LOAD 4
DEP
I-O
B PAR STROBE
PAR ENAB
ZERO
LOAD DATA
R-W
R-W
ENABLE
+1 → GO
+1 → WC
R-W CONF
CLK
+5VR
±0V
+3.5V
CONN. 1
LOAD 3
+5VR
±0V
SW1
DATA 02
DATA 03
SW2
SW4
DATO 01
LOAD 2
SW3
LOAD 1
STROBE DATA OUT
IOB 1
IOB 3
IOB 2
LOAD DATA
R-W
GO
CLR
GO
CONN. 2
700/600 GO
W-A
TCK SW 64
B FOR ENA
DATA 00
C-P
+1 → GO
+1 → WC
DATA 06
DATA 05
DATA 04
SEL ONE ∧ TWO
DATA 01
RUN
ZERO
CONN. 3
LOAD 4
DEP
ERROR
DATA 07
W
(B) PAR ENAB
I-O
B-P
B PWR CLR
1 → T.E.
GKBD
ENABLE
REQOS
R-W
R-W CONF
GISO
CLK
±0V
+5VR
B PAR STROBE
COMP. SIDE
WIRING SIDE
SIGNAL-TERMINAL DESIGNATIONS VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR
COMPONENT LAYOUT 0857
0857 R5
SRPNMLKJHFEDCBA
DO NOT SCALE
D 6457-1

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1	3.3K 1/4W	330-3033	1
R2	390Ω 1/4W	330-2039	1
R3	270Ω 1/4W	330-3027	1
R4	1K 1/4W	330-3010	1
C1,3	470μμf 10%	300-1471	2
C2	.0022μf 100V	300-2022	1
C5,6	1000μμf 15V	300-5006	2
C7,10,11,12,13,14,15,16,17	.01μf 25V	300-1903	9
C8,9	35μf 15V	300-3009	2

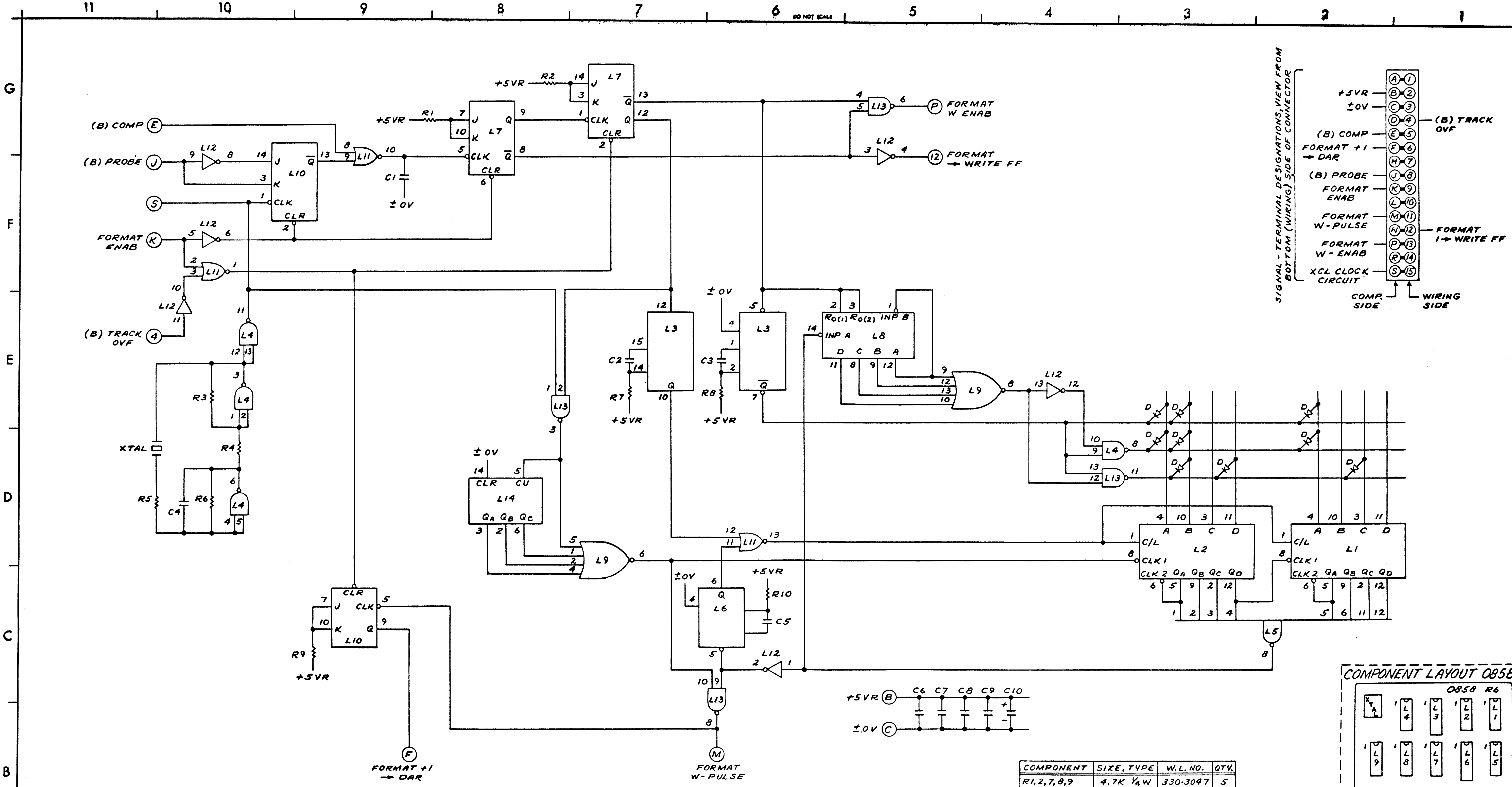
I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1,2,3,3A,4,6,8,17,21,30	SN7474N	376-0006	7	14	10
L5,14,26,29	SN7402N	376-0016	7	14	4
L7,15,19,31	SN7400N	376-0002	7	14	4
L9,10,20	F9601	376-0086	7	14	3
L11,13,18,23,25	SN7404N	376-0010	7	14	5
L12,16,24,27,28	SN7410N	376-0003	7	14	5
L22	MS8242	376-0040	7	14	1

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 710-1 — DRAWN F.S.S. 3-21-72 — APP. [illegible] 9/11/72 — CHECKED — APP.

TITLE: BLOCK CIRCUIT DIAGRAM #0857 I-O INTERFACE

SHT 1 OF 1 — DWG. NO. D 6457-1 — REV. 5



I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1,2	SN74197N	376-0083	7	14	2
L3,6	F9602	376-0104	8	16	2
L4,13	SN7400N	376-0002	7	14	2
L5	SN7430N	376-0031	7	14	1
L7,10	SN7473N	376-0005	11	4	2
L8	SN7493N	376-0001	10	5	1
L9	SN7425N	376-0092	7	14	1
L11	SN7402N	376-0016	7	14	1
L12	SN7404N	376-0010	7	14	1
L14	SN74193N	376-0053	8	16	1

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1,2,7,8,9	4.7K ¼W	330-3047	5
R3	1.8K ¼W	330-3018	1
R4,5	220Ω ¼W	330-2022	2
R6	180Ω ¼W	330-2018	1
R10	1K ¼W	330-3010	1
C1,6,7,8,9	.01µf 100V	300-1923	5
C2,4	47µµf CER.	300-1047	2
C3	470µµf CER.	300-1470	1
C10	15µf 20V TANT.	300-4022	1
XTAL	8MC .05%	321-0009	1
D	1N4607 HI SPEED	380-1005	9

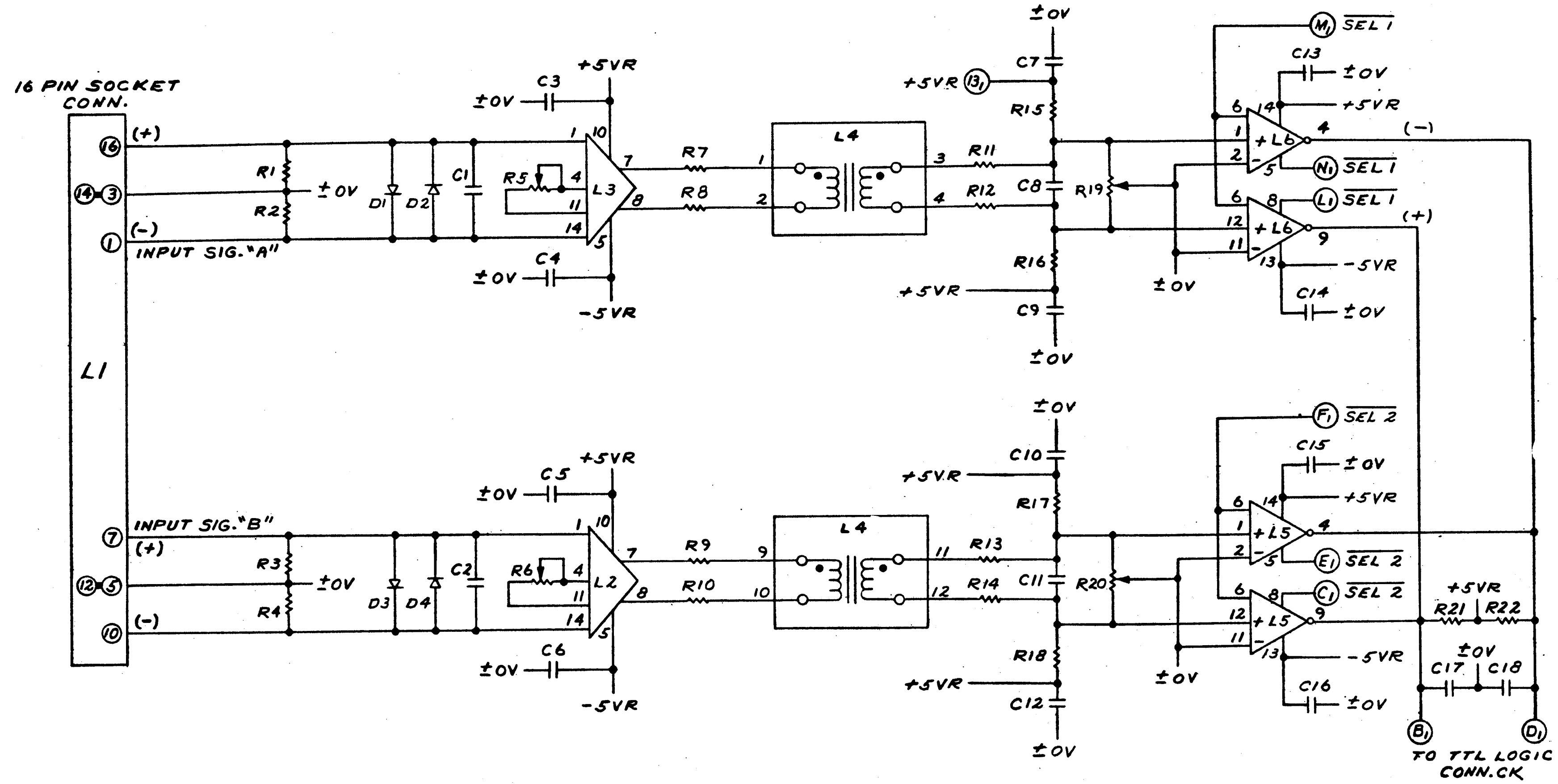
NO	REVISION	BY	DATE
1	REDRAWN WITH CHANGES. SEE OBSOLETE DWG. 6458-1, REV. 2 PER E.C. #3464 APP'D.	F.S.	22 73
2	REVISED: PER E.C. #3553 APP'D.	F.	27 73

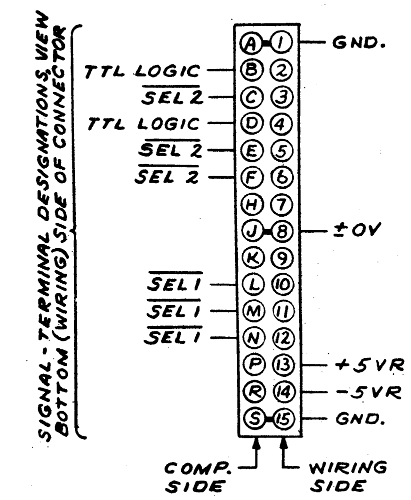
WANG LABORATORIES INC.
TEWKSBURY, MASS.

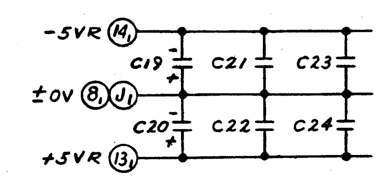
MODEL NO. 710-1 — DRAWN F.S.S. 1-22-73 — APP. — 3-2-73 — CHECKED — APP.

TITLE: BLOCK CIRCUIT DIAGRAM #0858 FORMAT WRITER LOGIC

SHT 1 OF 1 — D — DWG. NO. 6458-1 — REV. 2



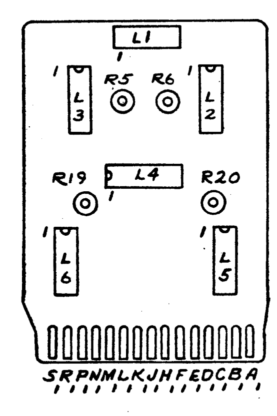




I.C. LOCATION	TYPE	W.L. NO.	TERM FOR		TERM FOR VCC +5VR	QTY.
L2,3	N5733A	376-0088	-5V	5	10	2
L4	24Z805	410-1004				1
L5,6	SN75108A	376-0089	±0V	7	14	2
L1	I.C. 14 PIN SOCKET	376-9001				1

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1,2,3,4,11,12,13,14	47Ω 1/4 5%	330-1048	8
R5,6	TRIMPOT 100Ω	336-1008	2
R7,8,9,10	100Ω 1/4W 5%	330-2011	4
R15,16,17,18	33K 1/4W 5%	330-4034	4
R21,22	4.7K 1/4W 10%	330-3047	2
C1,2,8,11,21,22,23,24	.0047μf 500V	300-1910	8
C3,4,5,6,7,9,10,12,13,14,15,16	.01μf 25V	300-1903	
C17,18	470μμf CER.	300-1470	2
C19,20	35μf 15V	300-3009	2
R19,20	TRIMPOT 200Ω	336-1000	2
D1,2,3,4	SIL. DIODE	380-1001	4

COMPONENT LAYOUT 0861



NO.	REVISION	DATE	BY
1	REVISED: PER E.C. #3446 APP'D.	12-28-72	F.S.
2	REVISED: PER E.C. #3654 APP'D	6-12-73	F.S.

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
710-1	F.S.S	8-28-72		9/11/72
	CHECKED		APP.	

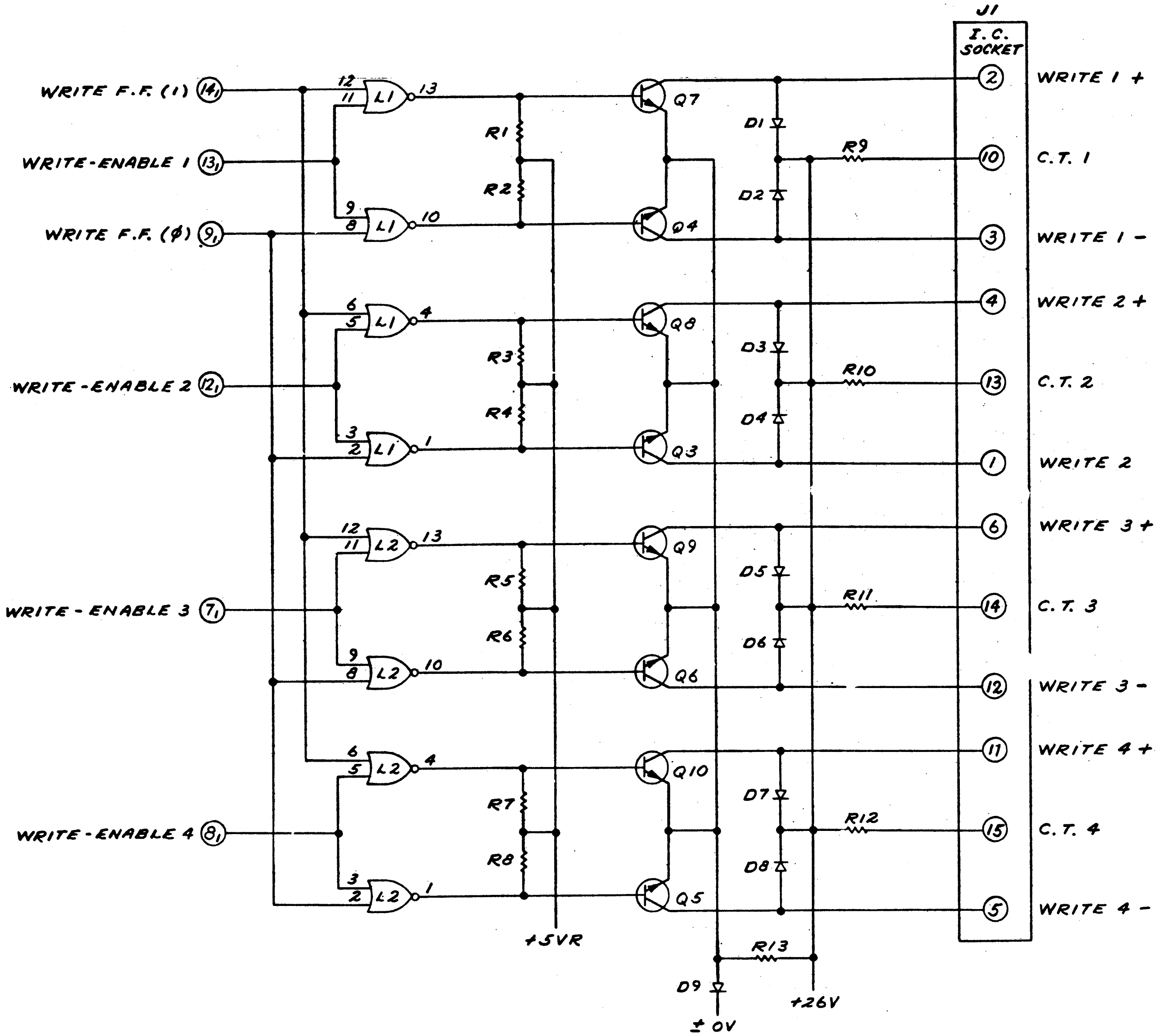
TITLE: BLOCK CIRCUIT DIAGRAM #0861 READ AMPLIFIER

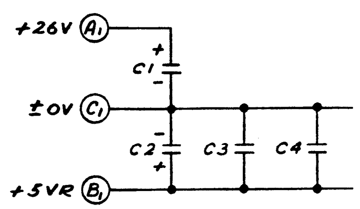
SHT 1 OF 1 — D — DWG. NO. 6461-1 — REV. 2

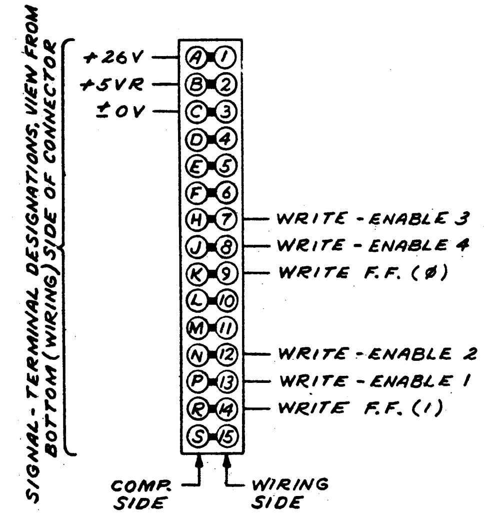
D 6461-1

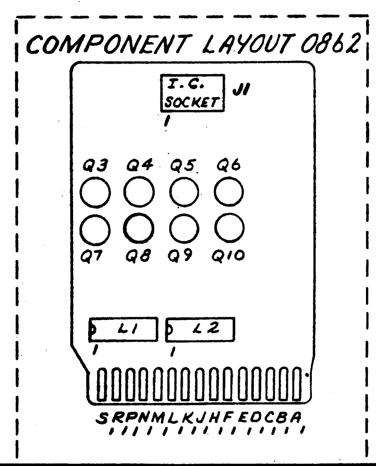
DO NOT SCALE

DO NOT SCALE









COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1,2,3,4,5,6,7,8	1K 1/4W 10%	330-3010	8
R9,10,11,12	220Ω 2W 10%	337-2022	4
R13	4.7K 1/4 10%	330-3047	1
C1	50μf 50V	300-3010	1
C2	35μf 15V	300-3009	1
C3,4	.01μf 100V	300-2110	2
Q3,4,5,6,7,8,9,10	2N5189 SIL.	375-1021	8
D1,2,3,4,5,6,7,8,9	IN4607(IN4448)	380-1005	9
J1	14 PIN SOCKET	376-9001	1

I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ± 0V	TERM FOR VCC +5VR	QTY.
L1,2	SN7402N	376-0016	7	14	2

D 6462-1

NO.	REVISION	DATE / BY
1	REVISED: PER E.C.# 3449 APP'D	F.S.S. 9/11/72

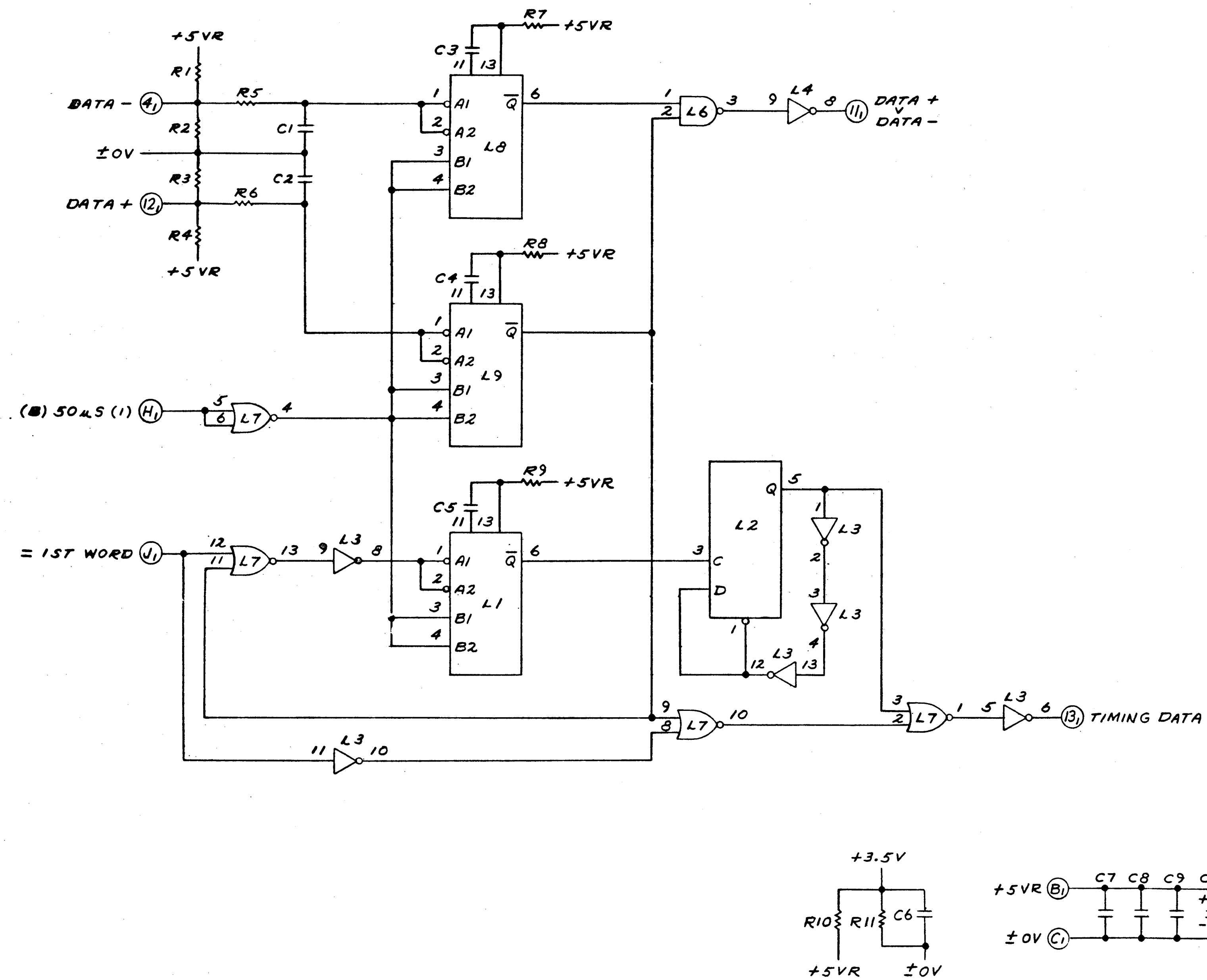
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 710-1 | DRAWN F.S.S. 8-31-72 | APP. | 9/11/72
CHECKED | APP.

TITLE: BLOCK CIRCUIT DIAGRAM #0862 WRITE CIRCUIT

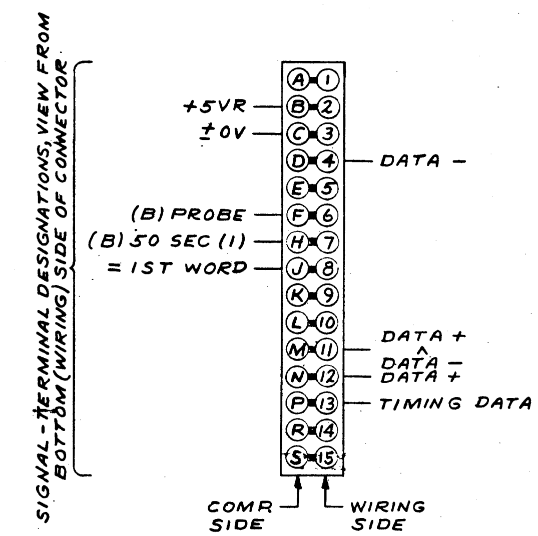
SHT 1 OF 1 | DWG. NO. D 6462-1 | REV. 1

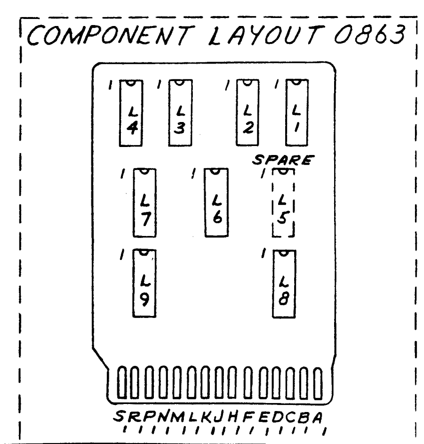
DO NOT SCALE



I.C. LOCATION	TYPE	W.L.NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1,8,9	F9601	376-0086	7	14	3
L2	SN7474N	376-0006	7	14	1
L3,4	SN7404N	376-0010	7	14	2
L5	SPARE				
L6	SN7400N	376-0002	7	14	1
L7	SN7402N	376-0016	7	14	1

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1,2,3,4,11	1K 1/4W 10%	330-3010	5
R5,6	100Ω 1/4W 10%	330-2010	2
R7,8	10K 1/4W 1%	333-0038	2
R9	10K 1/4W 2%	333-0039	1
R10	270Ω 1/4W 10%	330-3027	1
C1,2	1000 μμf 5%	300-5006	2
C3,4	220 μμf 5%	300-5004	2
C5	680 μμf 5%	300-5003	1
C6,7,8,9	.01μf 25V	300-1903	4
C10	35μf 15V	300-3009	1





REVISION

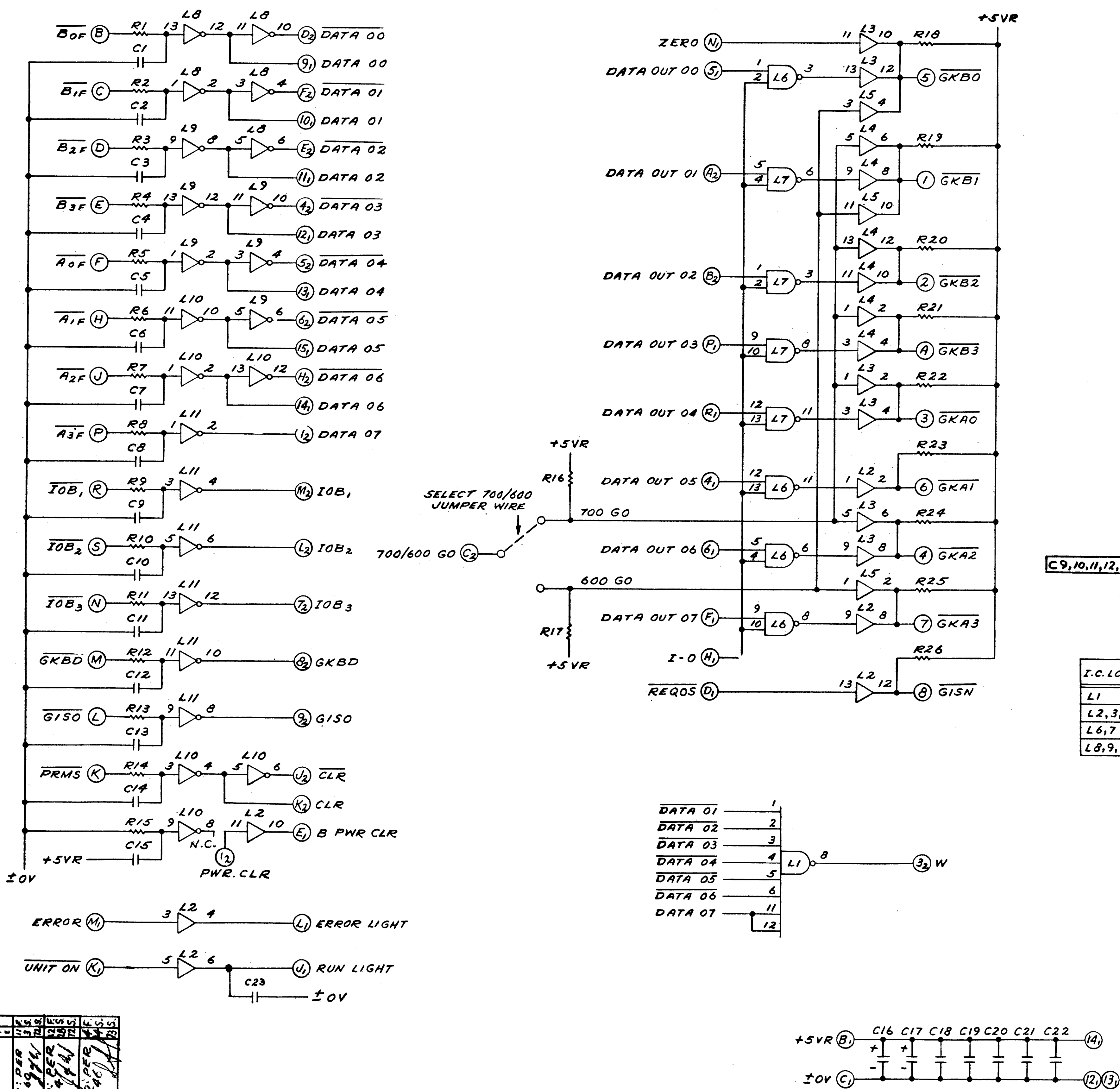
WANG LABORATORIES INC.
TEWKSBURY, MASS.

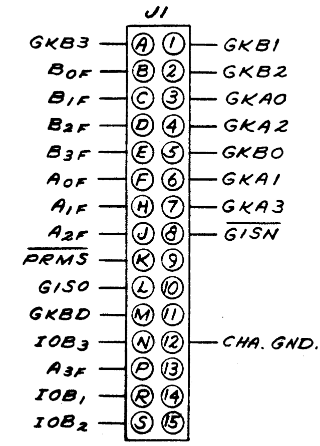
MODEL NO.	DRAWN		APP.	
710-1	FSS	8-30-72		9/11/72
	CHECKED		APP.	

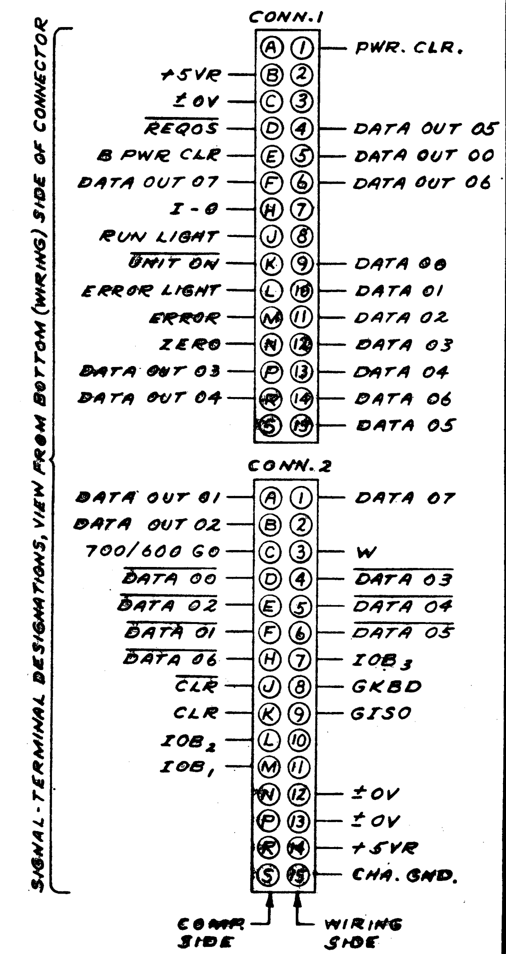
TITLE: BLOCK CIRCUIT DIAGRAM #0863 DATA CONTROL LOGIC

SHT 1 OF 1 — D — DWG. NO. 6463-1 — REV.

D 6463-1





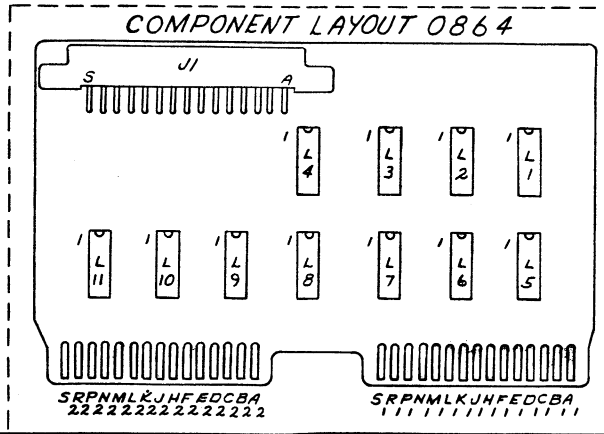


COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1,2,3,4,5,6,7,8,9,10,11,12,13,14	100Ω 1/4W	330-2010	14
R15	220Ω 1/4W	330-2022	1
R16,17	3.3K 1/4W	330-3033	2
R18,19,20,21,22,23,24,25,26	1K 1/4W	330-3013	9
C1,2,3,4,5,6,7,8	470μμf	300-1470	8
C14	1μf 15V	300-3000	1
C15	50μf	300-3010	1
C16,17	35μf 15V	300-3009	2
C9,10,11,12,13,18,19,20,21,22,23	.01μf 25V	300-1903	11
J1	225-21521-105	350-0009	1
TAPE	SEE NOTE 1	660-0057	A/R

I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1	SN7430N	376-0031	7	14	1
L2,3,4	SN7407N	376-0056	7	14	3
L6,7	SN7400N	376-0002	7	14	2
L8,9,10,11	SN7404N	376-0010	7	14	4

NOTES:
1. BOND CONNECTOR TO CIRCUIT BOARD USING DOUBLE SIDED THERMOSETTING TAPE BEFORE SOLDERING. APPROX. 3¼" LONG.

COMPONENT LAYOUT 0864



NO.	REVISION	DATE	BY
1	REVISED: PER E.C.# 3309 APP'D.		
2	REVISED: PER E.C.# 3441 APP'D.		
3	REVISED: PER E.C.# 3546 APP'D.		

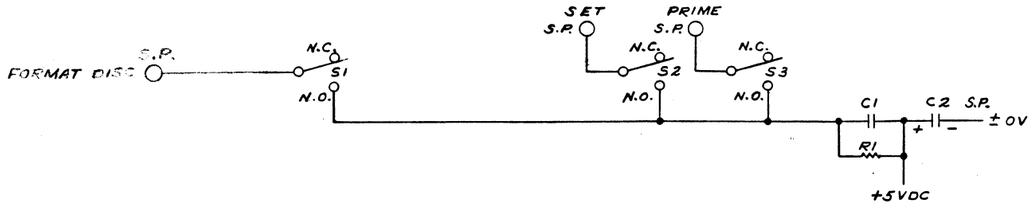
WANG LABORATORIES INC.
TEWKSBURY, MASS.

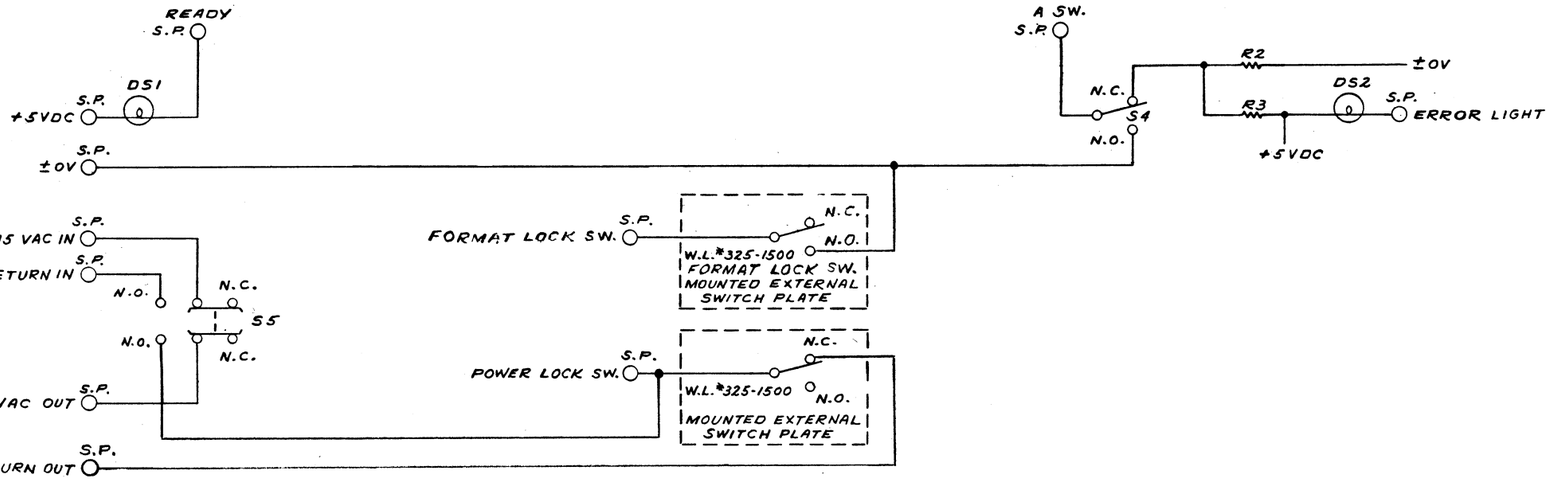
MODEL NO.	DRAWN		APP.	
710-1	F.S.S.	8-17-72		9/11/73
	CHECKED		APP.	

TITLE: BLOCK CIRCUIT DIAGRAM *0864 I-0 BUFFER BOARD

SHT 1 OF 1 — DWG. NO. D 6464-1 — REV. 3

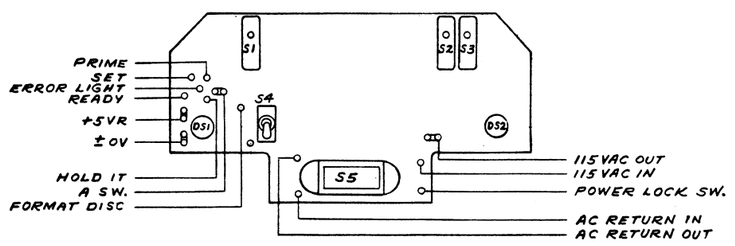
D 6464-1





COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1	6.8K ¼W 10%	330-3068	1
R2	1K ¼W 10%	330-3010	1
R3	270Ω ¼W 10%	330-2027	1
C1	220mmf CER.	300-1220	1
C2	4μf 15V	300-3003	1
DS1,2	1705 CLR. LAMP	375-0000	2
S1,2,3	11SM804 MICRO SW.	325-2300	3
S4	SPDT TOGGLE SW.	325-0006	1
S5	ROCKER SW.	325-0015	1

COMPONENT LAYOUT 0868



NO.	REVISION	DATE	BY
1	REVISED: PER E.C.#3449 APP'D.	12/6/71	R.S.S.
2	REVISED: PER E.C.#3460 APP'D.	1/11/72	R.S.S.

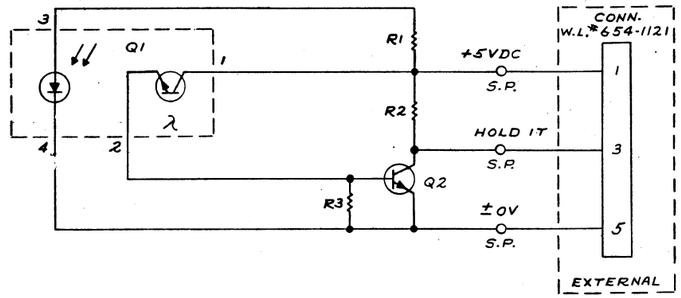
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.	
710-1	F.S.S. 8-31-72		9/11/72
	CHECKED	APP.	

TITLE
BLOCK CIRCUIT DIAGRAM #0868
SWITCH PLATE CIRCUIT BOARD (STD)

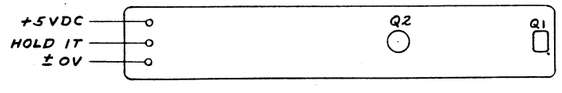
SHT 1 OF 1 | DWG. NO. D 6468-1 | REV. 2

D 6468-1



COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1	82 Ω 1/4W 10%	330-1082	1
R2	4.7K 1/4W 10%	330-3047	1
R3	10K 1/4W 10%	330-4010	1
Q1	TRANSD. FPLA-850	375-2102	1
Q2	2N3014 SIL.	375-0017	1

COMPONENT LAYOUT #0869



NO.	REVISION	BY	DATE

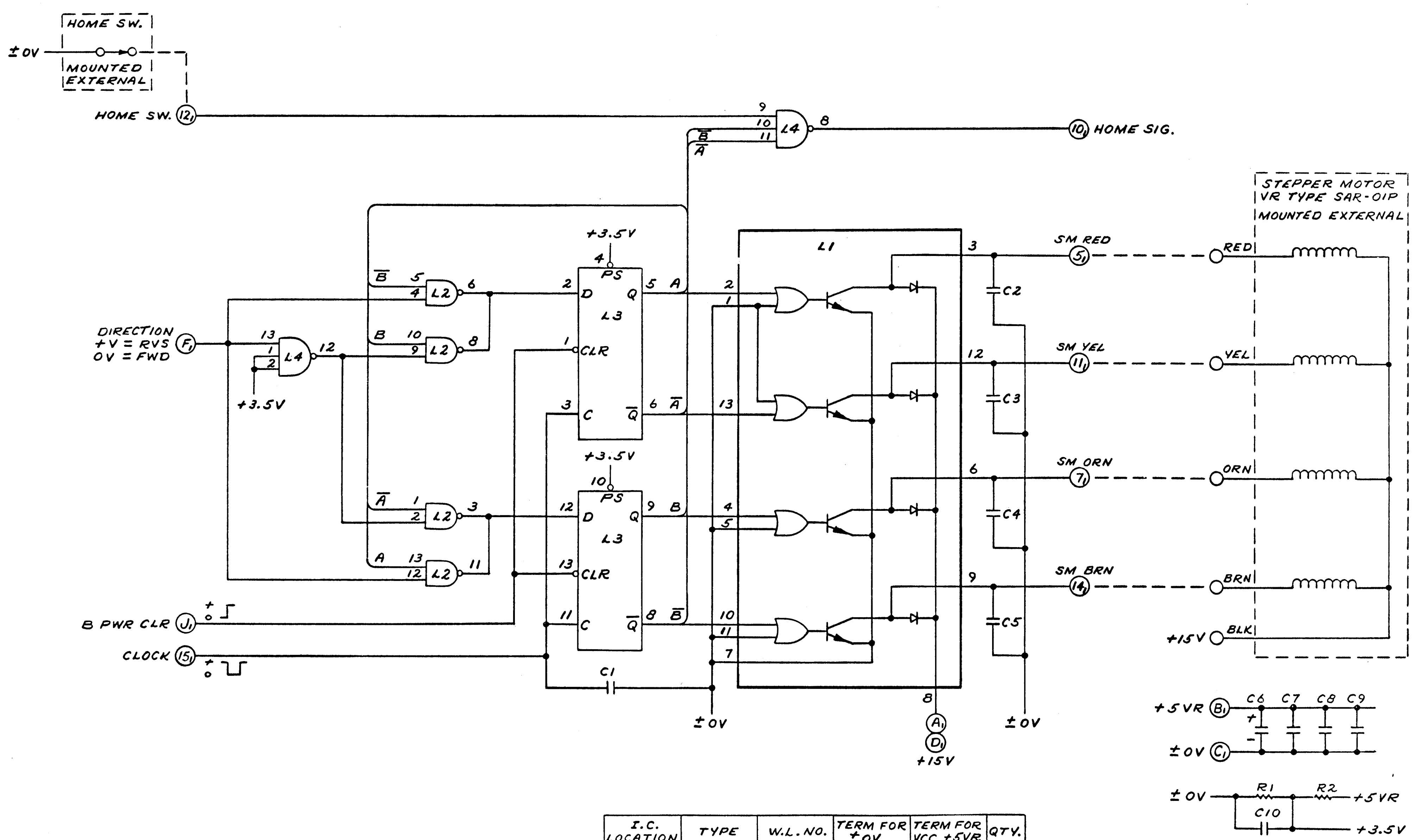
WANG LABORATORIES INC.
TEWKSBURY, MASS.

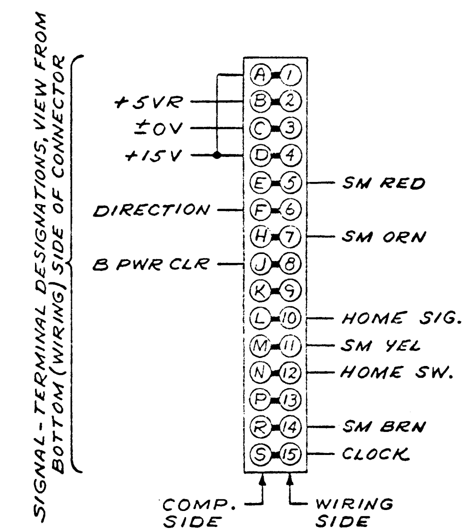
MODEL NO.	DRAWN	APP.	
710-1	F.S.S. 9-1-72		7/11/72
	CHECKED	APP.	

TITLE
BLOCK CIRCUIT DIAGRAM #0869
WRITE LOCK TRANSDUCER CIRCUIT

SHT 1 OF 1 | DWG. NO. D 6469-1 | REV.

D 6469-1

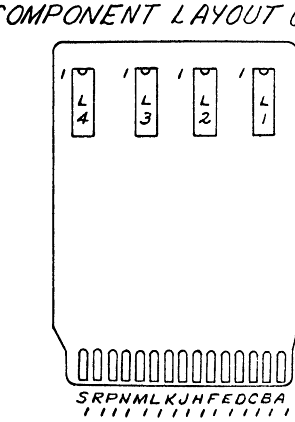




I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±OV	TERM FOR VCC +5VR	QTY.
L1	SP. UHP433		7	14	1
L2	SN7400N	376-0002	7	14	1
L3	SN7474N	376-0006	7	14	1
L4	SN7410N	376-0003	7	14	1

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1	1K 1/4W	330-3010	1
R2	270Ω 1/4W	330-2027	1
C1	82μμf CER	300-1082	1
C2,3,4,5	.22μf 100V	300-2222	4
C6	10μf 15V	300-3006	1
C7,8,9,10	.01μf 25V	300-1903	4

COMPONENT LAYOUT 0871



NO	REVISION	DATE	BY
1	REDRAWN WITH CHANGES, SEE OBSOLETE DWG. 6451-1 REV. 1 PER E.C.# 3528 APP'D.	3/1/73	F.S.S.

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
710-1	F.S.S.	11-30-30		3-2-73
	CHECKED		APP.	

TITLE: BLOCK CIRCUIT DIAGRAM #0871 STEPPER MOTOR CONTROL

SHT 1 OF 1 — DWG. NO. D 6471-1 — REV. 1

D 6471-1

DO NOT SCALE

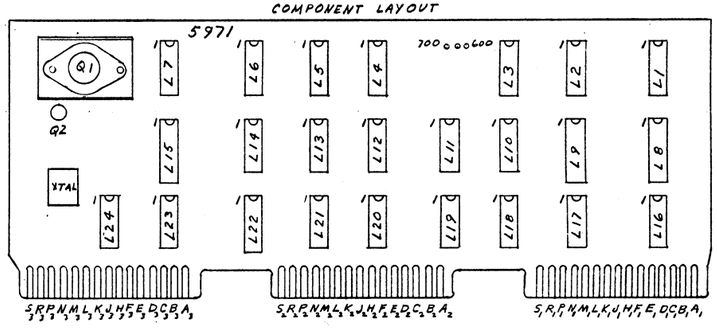
COMPONENT	SIZE/TYPE	W. L. NO.	QTY
R1	3.9Ω ½W	331-0079	1
R2	390Ω ¼W	330-2039	1
R3	3.9K ¼W	330-3033	1
R4	470Ω ¼W	330-2047	1
R5,6,28,33	10K ¼W	330-4010	4
R7 THRU 21, R29	4.7K ¼W	330-3047	16
R22,25	220Ω ¼W	330-2022	2
R23	180Ω ¼W	330-2018	1
R24,31	1.6K ¼W	330-3018	2
R26	39K ¼W	330-4039	1
R27	22K ¼W	330-4022	1
R30	1K ¼W	330-3010	1
R32	15K ¼W	330-4015	1

COMPONENT	SIZE/TYPE	W.L. NO.	QTY
C1, 4	820 PF	300-1820	2
C3	.0056 MF	300-1915	1
C2	.0033 MF	300-2033	1
C5	330 PF	300-1330	1
C7, 17	10 MF 16VDC	300-3006	2
C8 THRU 16	.05 MF	300-1900	9
D2	IN753A 6.2V	380-2062	1
D1	IN759A 6.8V	380-2068	1
D3, 4, 5, 6	DIODE GE.	380-0000	4
Q1	2N4831	375-1031	1
Q2	GT544	375-1017	1
XTAL	8 MHz	321-0009	1
C6	.0018 MF	300-1907	1

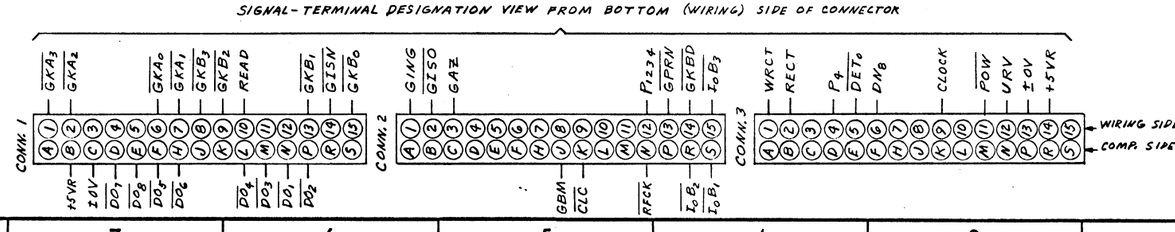
LOCATION	TYPE	W. L. NO.	TERM. NO. V_{CC} +5VR	TERM. NO. IOV	QTY
L1,2	SN7403N	376-0028	14	7	2
L3	SN7400N	376-0056	14	7	1
L4	9935	376-0025	14	7	1
L5,11,24	SN7404N	376-0010	14	7	3
L6,21,23	SN7400N	376-0002	14	7	3
L7,14,20	SN7410N	376-0003	14	7	3
L8,9	SN7475N	376-0013	5	12	2
L10	9936	376-0026	14	7	1
L12	SN74121N	376-0051	14	7	1
L13	SN7402N	376-0016	14	7	1
L15	.9602	376-0104	16	8	1
L16,17	SP380A	376-0061	8	1	2
L18	9963	376-0033	14	7	1
L19	9946	376-0023	14	7	1
L22	SN7492N	376-0008	16	8	1

COMPONENT LAYOUT

5971



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



NO.	REVISION	BY	DATE	APP'D
1	PER ECN #3239 R27 WAS 27K APP'D SKH	KB	9-27-72	
2	PER ECN #3297 C2 WAS .002 MF APP'D SKH	KB	10-16-72	
3	REVISED PER ECN #3526 APP'D SKH	KB	2-28-73	
4	REVISED PER ECN #3926 APP'D SKH	KB	10-22-73	

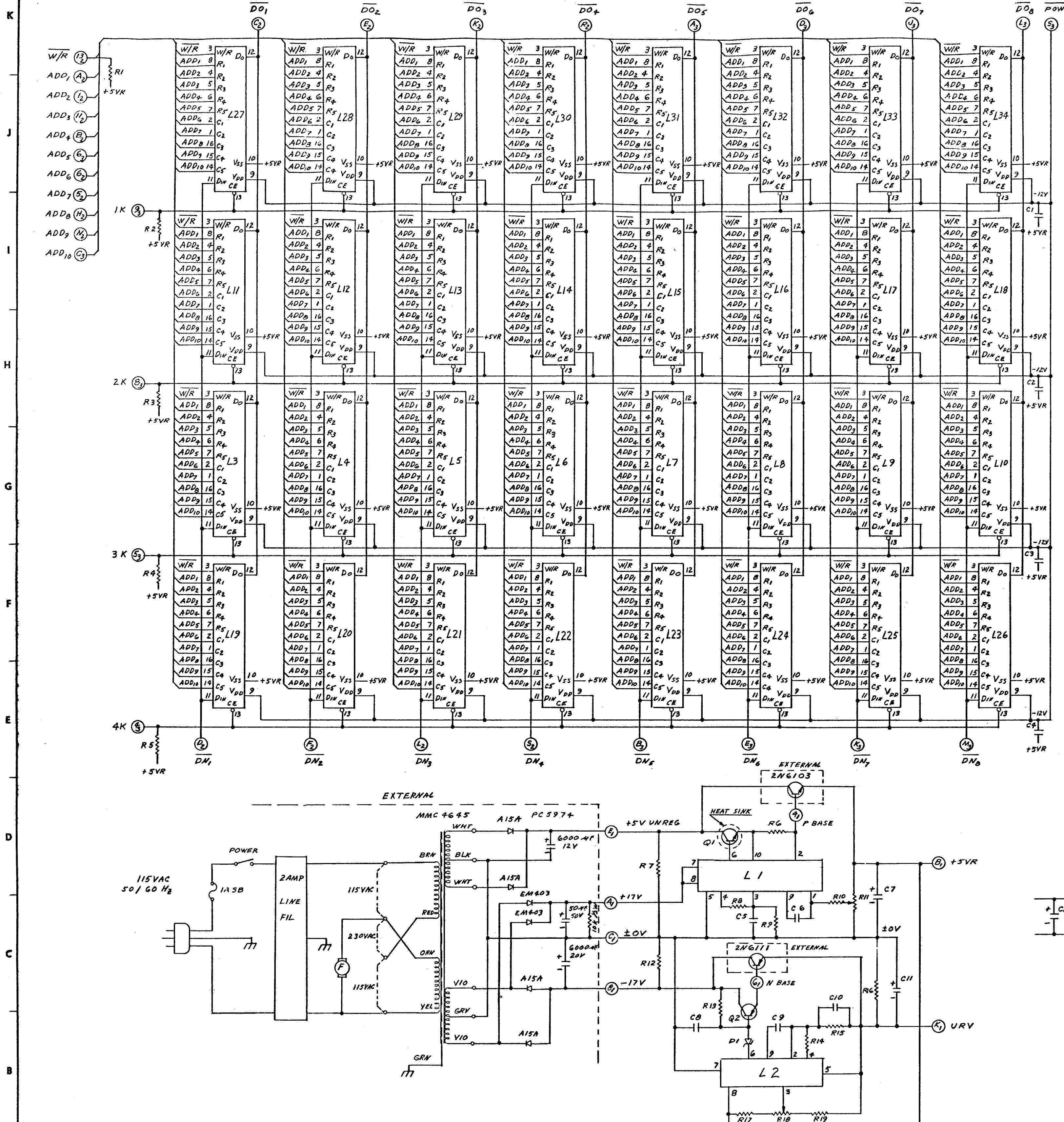
WANG LABORATORIES INC.
TEWKSBURY, MASS.

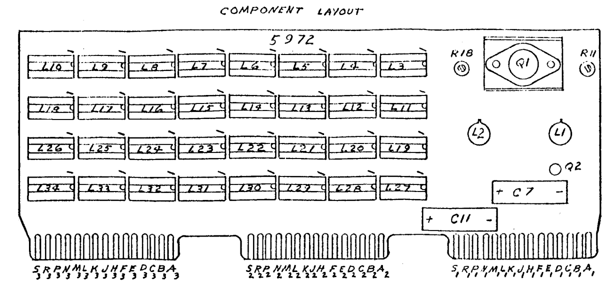
MODEL NO.	DRAWN	DATE	APP'D	DATE
718	KB	9-6-72		
	CHECKED		APP.	

TITLE: SCHEMATIC, LOGIBLOC 5971 CONTROL UNIT

SHT OF | DWG. NO. D 5971-1 | REV. 4

5971-1 D



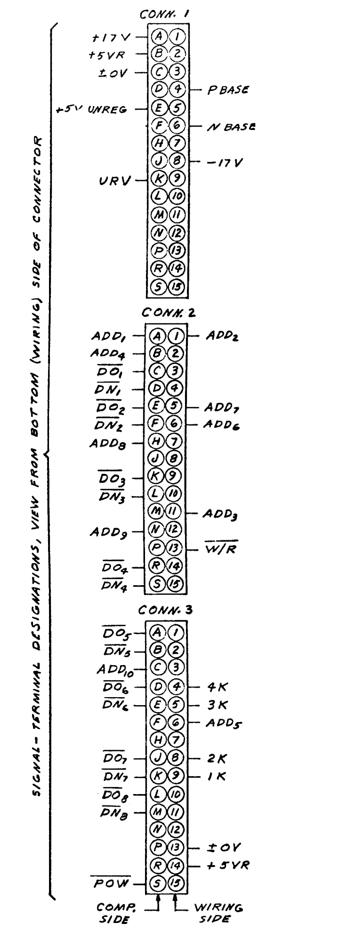


LOCATION	TYPE	W.L. PART NO.	QTY
L1, 2	723	376-0066	2
L3 THRU 34	4008P	377-0005	32

MEMORY LOADING CHART

MEMORY	LOADING LOCATION	QTY
1K MEMORY	L27,28,29,30,31,32,33,34	8
2K MEMORY	L27,28,29,30,31,32,33,34 L11,12,13,14,15,16,17,18	16
3K MEMORY	L27,28,29,30,31,32,33,34, L11,12,13,14,15,16,17,18, L3,4,5,6,7,8,9,10	24
4K MEMORY	L3 THR 34	32

COMP.	SIZE/TYPE	W.L. PART No.	QTY
R1,2,3,4,5	1K 1/4W	330-3010	5
R6	2.2Ω 1/2W	331-0022	1
R7,12	10K 1/2W	331-4010	2
R8,17	2.7K 1/4W	330-3027	2
R9	4.7K 1/4W	330-3047	1
R10	470Ω 1/4W	330-2047	1
R11,18	1K POT	336-0016	2
R13	560Ω 1/4W	330-2056	1
R14	1.8K 1/4W	330-3018	1
R15	3.3K 1/4W	330-3033	1
R16	10K 1/4W	330-4010	1
R19	680Ω 1/4W	330-2068	1
C1,2,3,4	.05μF	300-1900	4
C5	.1 μF	300-1901	1
C6,8	.01μF	300-1903	1
C7,11	200μF 16V	300-3012	2
C9	.001μF	300-1906	1
C10	.05μF	300-1900	1
C12	10μF 16V	300-3006	1
D1	1N749A 4.2V	380-2042	1
Q1	40250	375-1028	1
Q2	GT544	375-1017	1



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

MODEL NO. 718

DWN 10-5-72

TITLE SCHEMATIC, LOGIBLOC 5972 1K, 2K, 3K & 4K MEMORY & REGULATOR

SIZE E DRAWING NUMBER 5972-1

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

DO NOT SCALE

LOCATION	TYPE	W.L. NO.	TERM. NO. ±0V	TERM. NO. V_{cc} +5VR	QTY
L1,3,13	SN7493N	376-0011	10	5	3
L2, 10	SN7473N	376-0005	11	4	2
L4	8226	376-0041	8	16	1
L5,6,16,17	SN74193N	376-0053	8	16	5
L8	SN7442N	376-0008	8	16	1
L9, 22	SN7410N	376-0003	7	14	2
L11	SN7451N	376-0012	7	14	1
L12	SN7402N	376-0016	7	14	1
L14	SN7430N	376-0073	10	5	1
L15,24	9936	376-0026	7	14	2
L18,19,26	SN7404N	376-0010	7	14	3
L20	8242	376-0040	7	14	1
L21	9602	376-0104	8	16	1
L23	SN7400N	376-0002	7	14	1
L25	SN7406N	376-0055	7	14	1

COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY
R1	2.2K ¼W	330-3022	1
R2	27K ¼W	330-4027	1
R3 THRU7, 11 THRU 15	1K ¼W	330-3010	10
R17 THRU 21	4.7K ¼W	330-3047	5
R9, 22	47Ω ¼W	330-1047	2
R10	6.8K ¼W	330-3068	1
R16	10K ¼W	330-4010	1
R8	47K ¼W	330-4047	1
C1	330 PF	300-1330	1
C2	330 PF 5%	300-5007	1
C3	.033 MF MYLAR	300-2133	1
C5	82 PF	300-1082	1
C6	220 PF	300-1220	1
C7	330 PF	300-1330	1
C8	.0015 MF	300-1907	1
C9,18	10 MF 16 VDC	300-3006	2
C10 THRU17	.05 MF	300-1900	8
D1	GERM.	380-0000	1

CONN. 1

+5VR	B 2	
±0V	C 3	
	D 4	
	E 5	
$\overline{WR}$	F 6	
ADD_5	H 7	
CLOCK	J 8	
WRCT	K 9	
RECT	L 10	
	M 11	
	N 12	
	P 13	READ
	R 14	GING
ADD_2	S 15	$\overline{RFCK}$

CONN. 2

ADD_1	A 1	$\overline{GPRN}$
ADD_4	B 2	
ADD_3	C 3	
P_4	D 4	
$\overline{DET_0}$	E 5	
ADD_8	F 6	
ADD_7	H 7	
ADD_6	J 8	
GAZ	K 9	
DN_8	L 10	
ADD_9	M 11	
ADD_{10}	N 12	
$\overline{GI_0B_3F}$	P 13	
$\overline{GI_0B_2F}$	R 14	
$\overline{GI_0A_0F}$	S 15	

CONN. 3

$\overline{DN_6}$	A 1	$\overline{DN_7}$
$\overline{DN_8}$	B 2	$\overline{GI_0A_2F}$
$\overline{DN_9}$	C 3	$\overline{GI_0A_3F}$
$\overline{GI_0A_1F}$	D 4	$\overline{GI_0B_0F}$
$\overline{GI_0B_1F}$	E 5	$\overline{DN_3}$
4K	F 6	$\overline{DN_4}$
3K	H 7	SW0
2K	J 8	SW1
1K	K 9	GBM
$\overline{DN_2}$	L 10	SW2
$\overline{DN_1}$	M 11	SW3
	N 12	
	P 13	±0V
	R 14	+5VR
$\overline{CLC}$	S 15	P_{1234}

COMP. SIDE — WIRING SIDE

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

COMPONENT LAYOUT

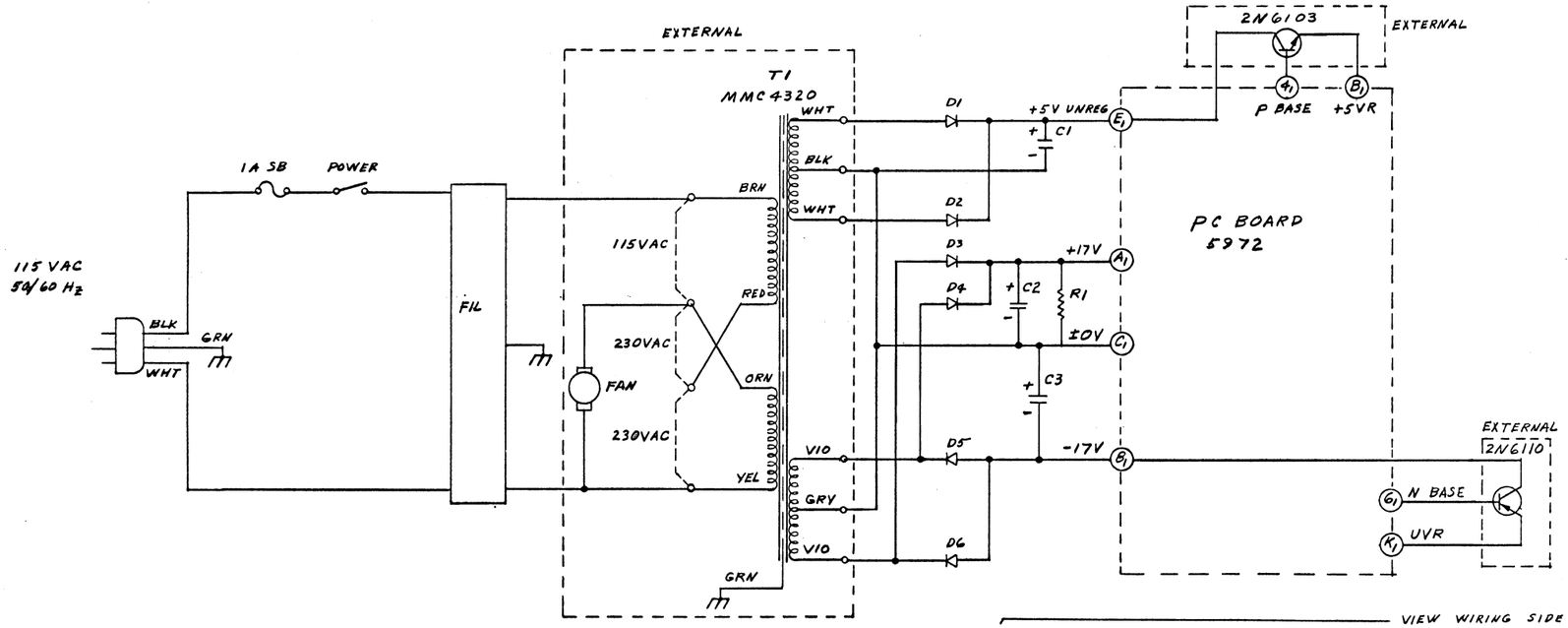
NO.	REVISION	BY	DATE
1	REVISED PER ECN 3215 APP. D	SH	9-23-71
2	REVISED PER ECN # 3226 APP. D	SH	9-23-72
3	REVISED PER ECN # 3848 APP. D	SH	10-23-73

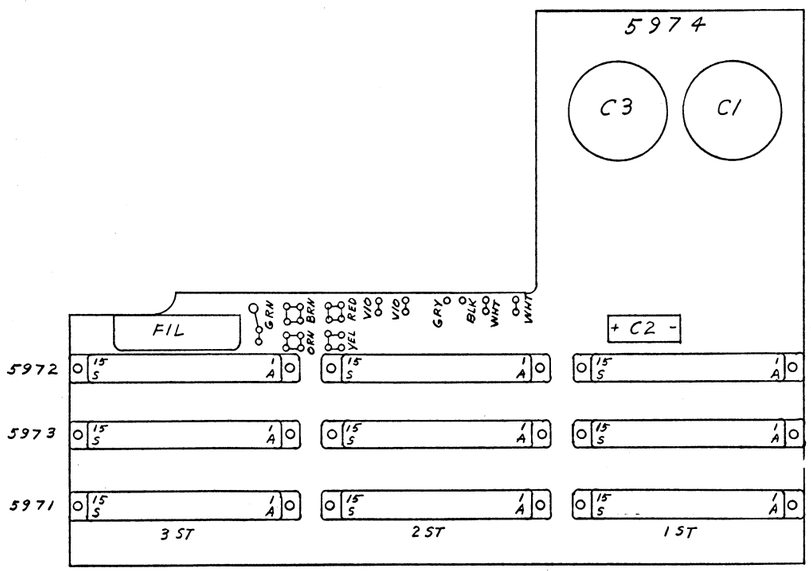
WANG LABORATORIES INC.
TEWKSBURY, MASS.

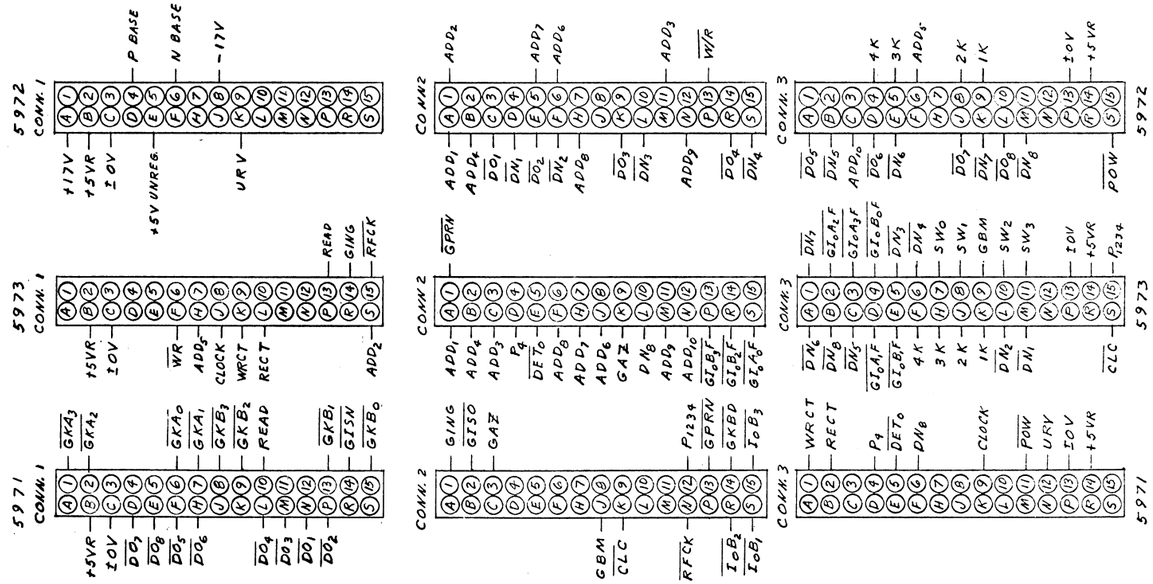
MODEL NO.	DRAWN	APP.
718	SH 9-26-72	
	CHECKED	APP.

TITLE: SCHEMATIC, LOGIBLOC 5973
COUNTER AND REFRESHING CIRCUIT

SHT OF | DWG. NO. D 5973-1 | REV. 3







DO NOT SCALE

COMP.	SIZE/TYPE	W.L. PART NO.	QTY
R1	10K 1/4W	330 — 4010	1
D1, 2, 5, 6	A-15A	380 — 3004	4
D3, 4	EM 403	380 — 4000	2
C1, 3	6K µF 20V	300 - 3019	2
C2	50 µF 50V	300 — 3010	1
T1	MMC4320	410 - 0069	REF
FIL	LINE FILTER	410 — 2001	1
F1	1 A SB	360 — 1010	1

VIEW WIRING SIDE

DATE
BY
REVISION
NO

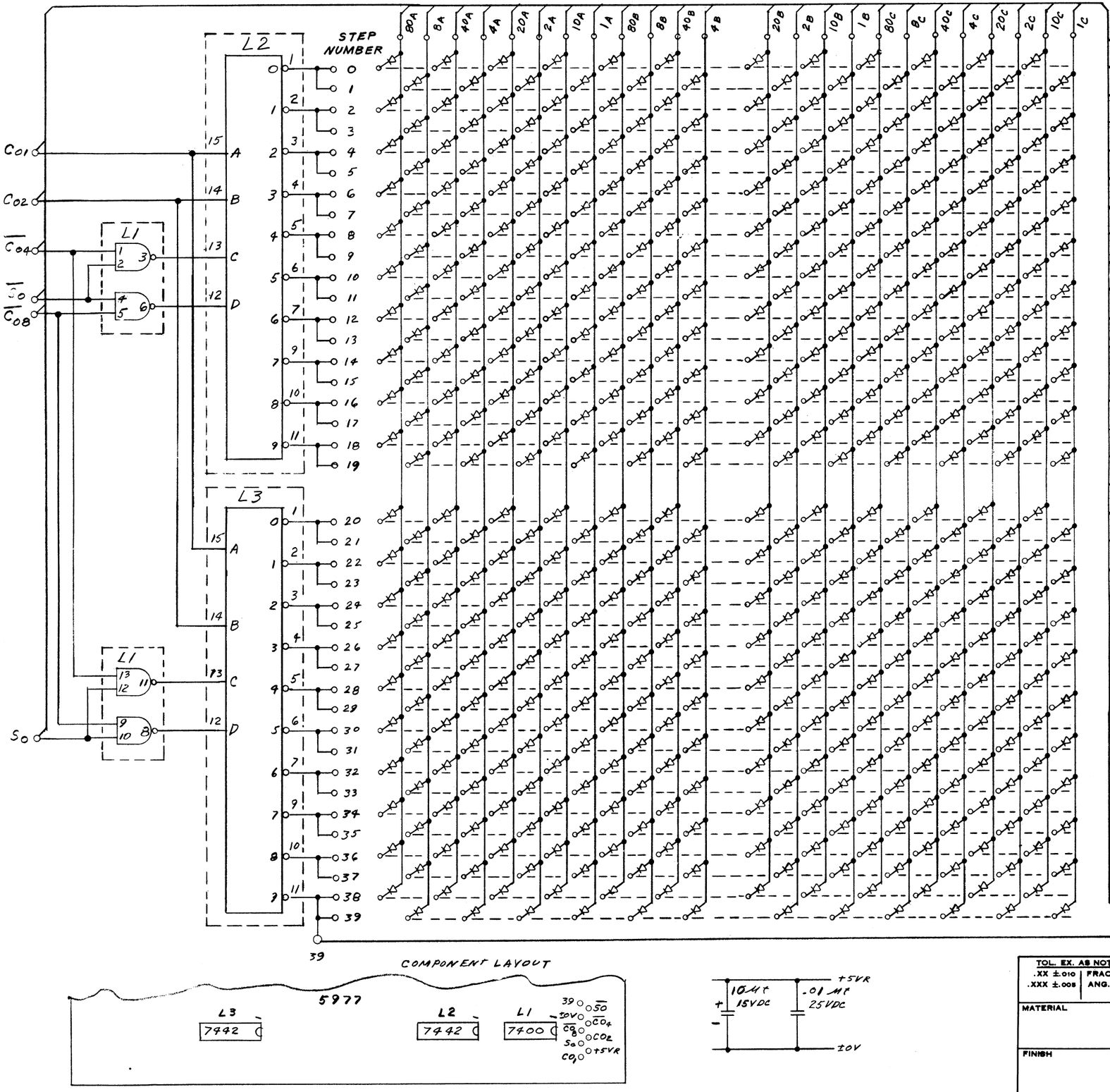
D 5974-1

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 718	DRAWN	10-9-72	APP.	10/23/72
	CHECKED		APP.	

TITLE # 5974
MOTHER BOARD & POWER SUPPLY

SHT OF
DWG. NO. D 5974-1
REV.



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. +5VR
L1	SN7400N	376-0002	7	14
L2, 3	SN7442N	376-0008	8	16

QTY	1	2

NOTE:
1. ALL DIODES ARE WL 380-1001 (QTY 480)
2. USED ONLY ON MODEL 704 CARD READER

TOL. EX. AS NOTED
.XX ±.010 | FRAC. ±1/
.XXX ±.005 | ANG. ±
MATERIAL
FINISH | SCALE

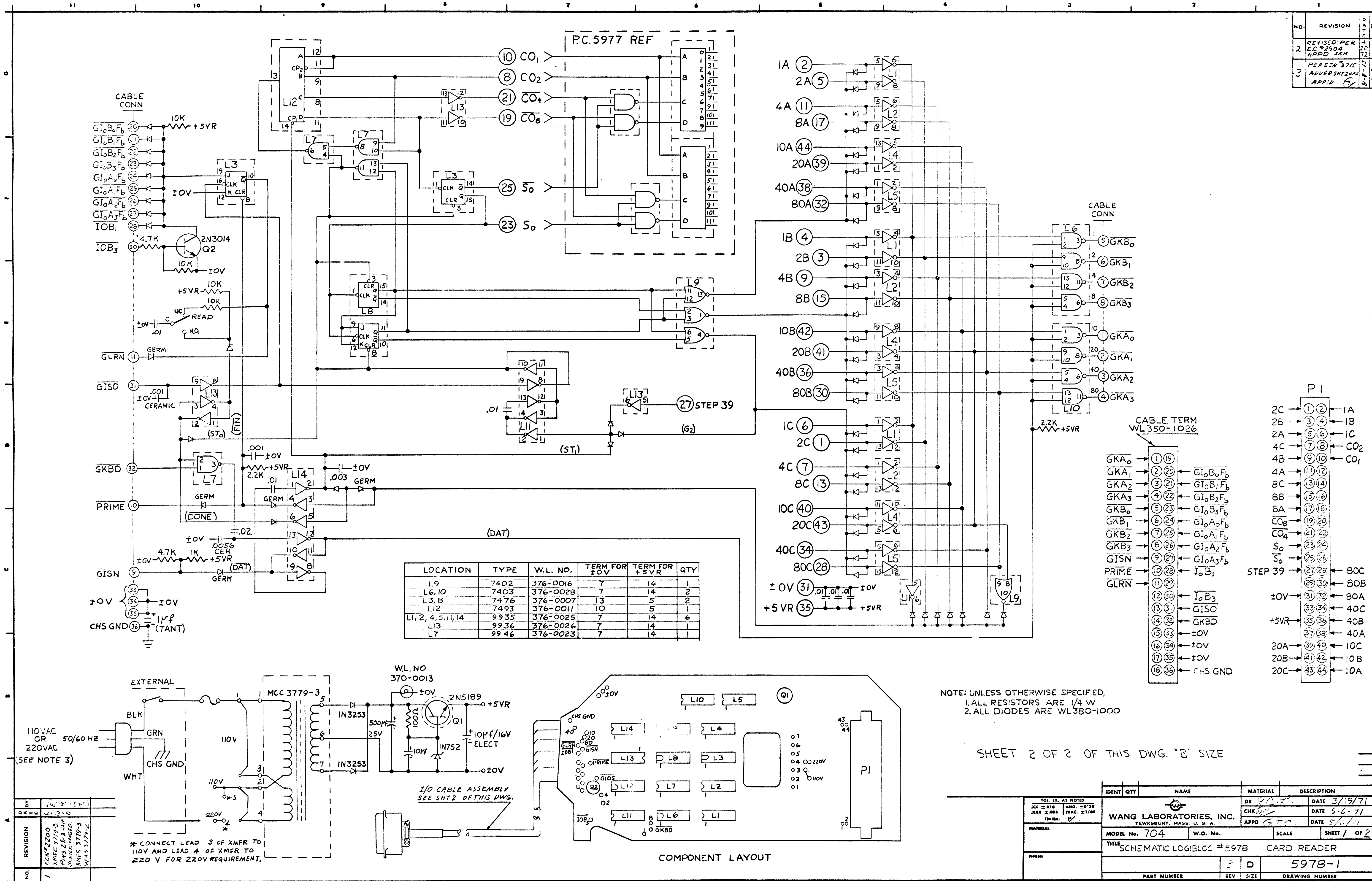
WANG LABORATORIES INC.
TEWKSBURY, MASS.

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

TITLE SCHEMATIC LOGIBLOC # 5977
CARD READER FOR MODEL 184, 186 AND 704

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

C ON SMC



LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR +5VR	QTY
L9	7402	376-0016	7	14	1
L6,10	7403	376-0028	7	14	2
L3,8	7476	376-0007	13	5	2
L12	7493	376-0011	10	5	1
L1,2,4,5,11,14	9935	376-0025	7	14	6
L13	9936	376-0026	7	14	1
L7	9946	376-0023	7	14	1

NOTE: UNLESS OTHERWISE SPECIFIED,
1. ALL RESISTORS ARE 1/4 W
2. ALL DIODES ARE WL380-1000

SHEET 2 OF 2 OF THIS DWG. "B" SIZE

NO.	REVISION	DATE	BY
2	REVISED PER E.C. #2404 APPD SRH	4-20-72	F.S.
3	PER ECN #3715 ADDED SHT 2 OF 2 APP'D		

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

MODEL No. 704

TITLE SCHEMATIC LOGIBLOC #5978 CARD READER

DATE 3/19/71 · DATE 5-6-71 · DATE 5/1/71

SHEET 1 OF 2

REV 3 · SIZE D · DRAWING NUMBER 5978-1

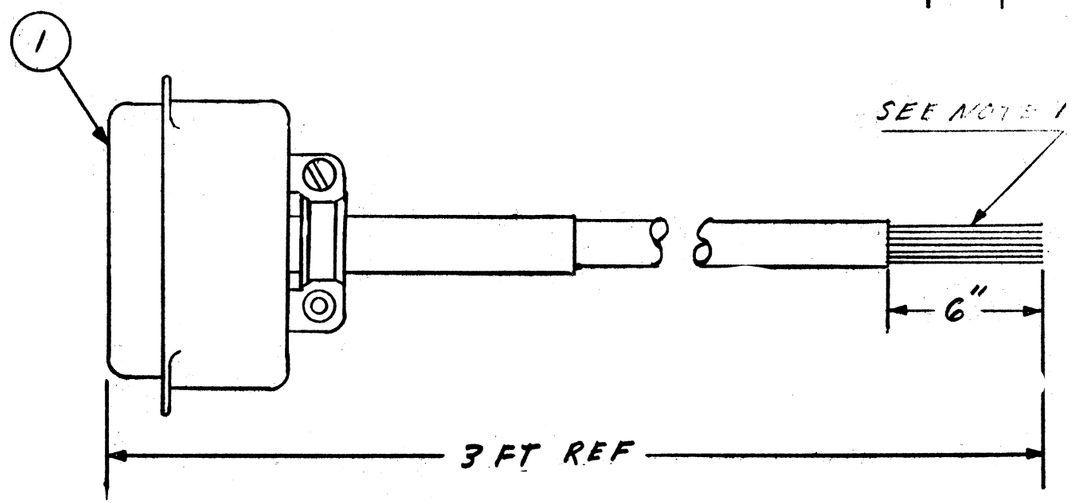
DO NOT SCALE

PIN NO.	WIRE NO.	SIG.
1	1	10
2	2	20
3	3	40
4	4	80
5	5	1
6	6	2
7	7	4
8	8	8
9	9	$\overline{GISN}$
10	10	$\overline{PRIME}$
11	11	GLRN
12	12	—
13	13	—
14	14	—
15	15	—
16	16	—
17	17	—
18	18	—

PIN NO.	WIRE NO.	SIG
19	19	—
20	20	$\overline{GI_oB_oFb}$
21	21	$\overline{GI_oB_1Fb}$
22	22	$\overline{GI_oB_2Fb}$
23	23	$\overline{GI_oB_3Fb}$
24	24	GI_oA_oFb
25	25	$\overline{GI_oA_1Fb}$
26	26	$\overline{GI_oA_2Fb}$
27	27	$\overline{GI_oA_3Fb}$
28	28	$\overline{IOB_1}$
29	29	—
30	30	$\overline{IOB_3}$
31	31	$\overline{GISO}$
32	32	$\overline{GKBD}$
33	33	$\pm$0V
34	34	$\pm$0V
35	35	$\pm$0V
36	36	CHASSIS

HOLE LEGEND		
DRILLED OR PUNCHED HOLE TOLERANCES:	HOLE DIA.	TOL.
	.0135 to .125	$\pm .003$ $-.001$
	.126 to .250	$\pm .004$ $-.001$
	.251 to .500	$\pm .005$ $-.001$

IDENT.	DESCRIPTION	QTY.
A		



NOTE:—

1. STRIP OUTER INSULATION TO DEM. SHOWN, FOLD BACK ALL UNUSED WIRES AND TIE.

1	1	CABLE ASSEMBLY TYPE 2	220-2636-3	SEE DWG. C6482-2
IDENT	QTY	NAME	W.L. PART NO.	DESCRIPTION

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

	BY	DATE	APPROVED BY	DATE
DWN	JB	1/28/72	E ENGR	
CHK			M ENGR	
E. C. CONTROL			MFG ENGR CW	1-31-72

MATERIAL

MODEL NO. 704

SEE ENGRG SPECIFICATIONS No.

TITLE I/O CABLE, CARD READER

FINISH

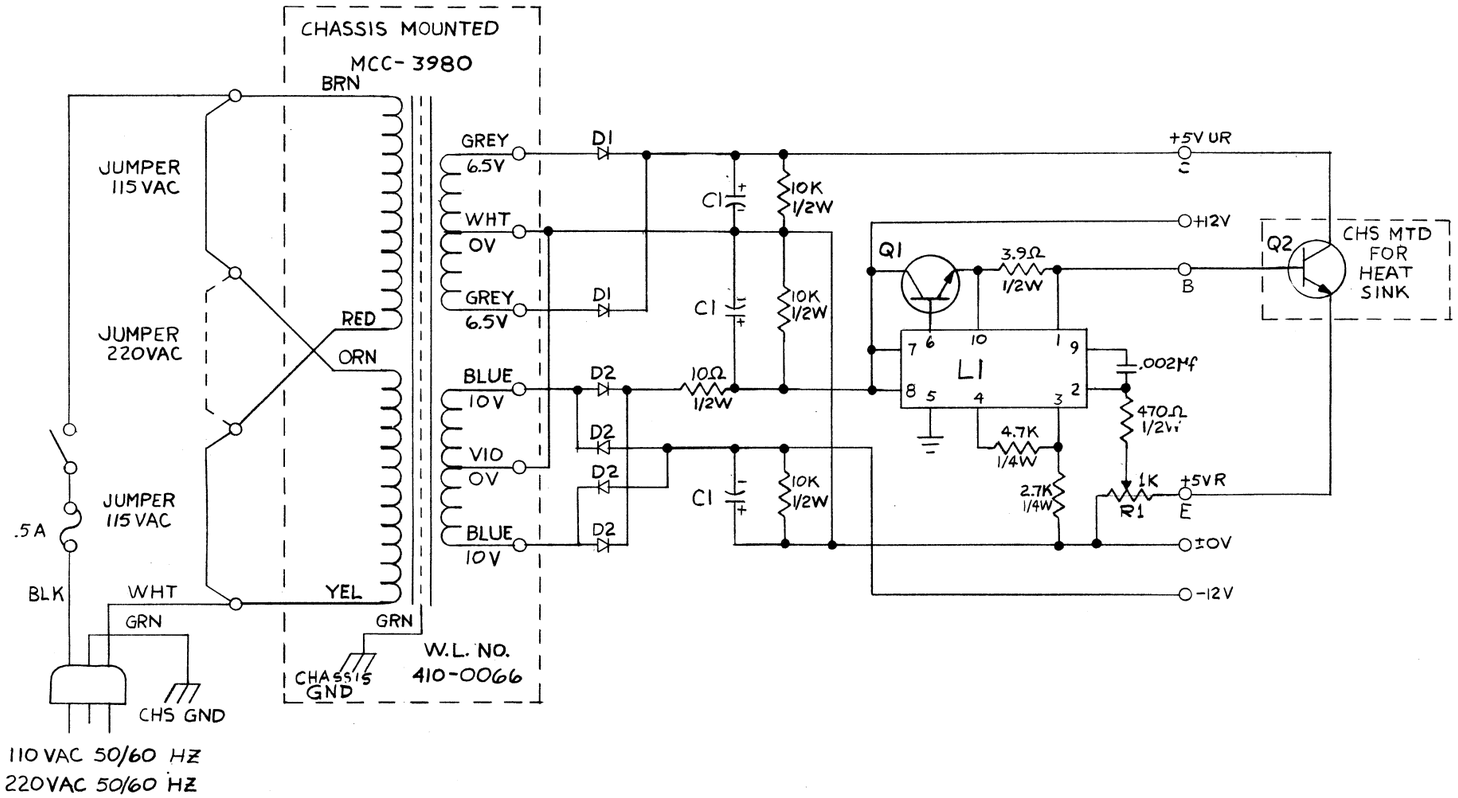
TOL. EX. AS NOTED
.XX ± .010 FRAC. ± 1/64
.XXX ± .005 ANG. ± 1°30' FINISH 128 √

SCALE	SHT 2 OF 2	WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.
			B	5978-1	3

NO.	REVISION	DATE	BY

B 5978-101

DO NOT SCALE



COMP	TYPE	W.L. NO	QTY
L1	HA723	376-0066	1
D1	IN4719	380-3002	2
D2	IN3253	380-3003	4
Q1	2N5189	375-1021	1
Q2	40251	375-1008	1
C1	6000Mf/20V	300-3019	3
R1	1K HELITRIM	336-1001	1

NO.	REVISION	DATE	BY
1	PER ECN #3451 REMOVED 10Ω 1/2W RES. APP'D SKHD	1-8-73	GB

TOL. EX. AS NOTED
.XX ±.010 | FRAC. ±1/64
.XXX ±.005 | ANG. ±0°30'
FINISH:
MATERIAL
FINISH

IDENT	QTY	NAME	MATERIAL	DESCRIPTION

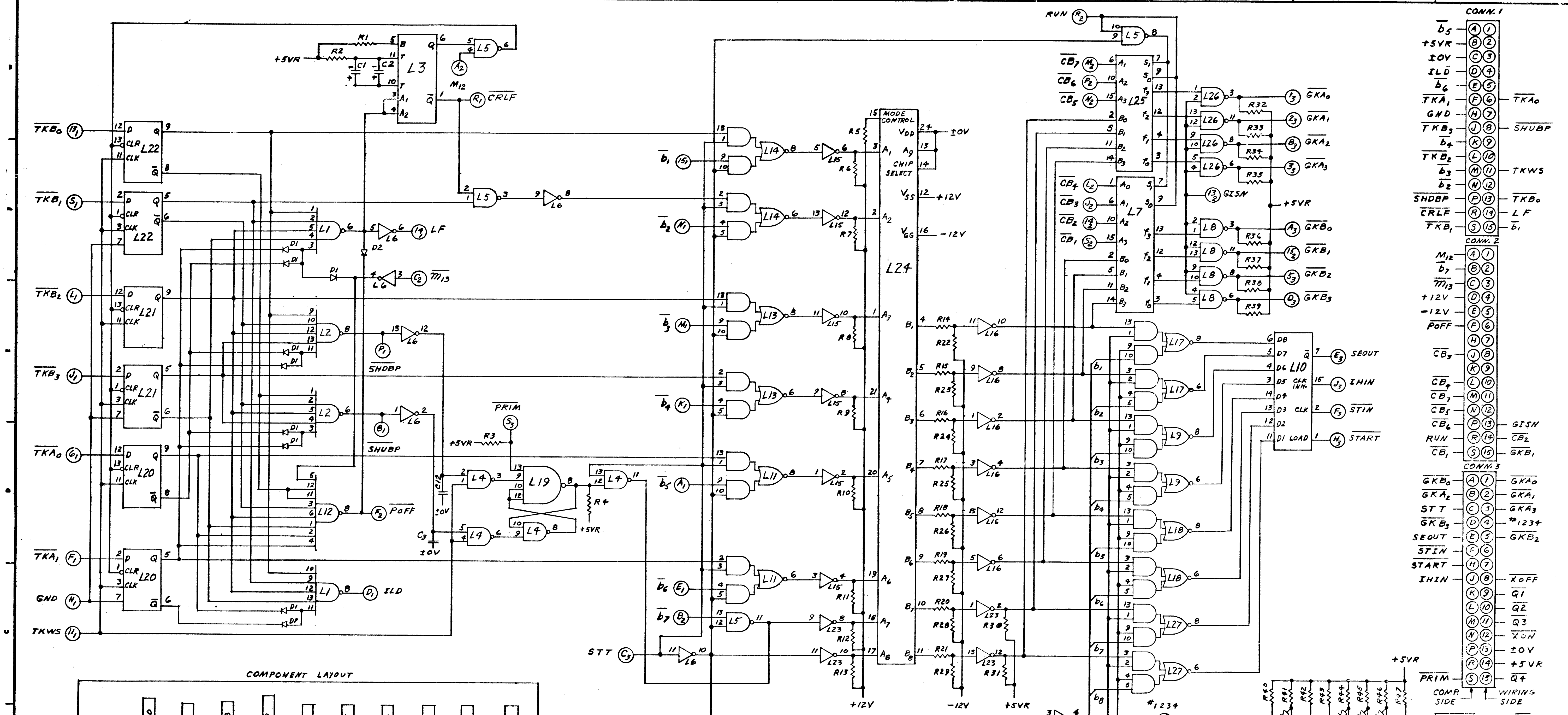
WANG LABORATORIES, INC.
TEWKSBURY, MASS. U. S. A.

DR GCR	DATE 3/22/71		
CHK K Tony	DATE 2/10/72		
APPD SK KHD	DATE 2/10/72		
MODEL No. 707	W.O. No.	SCALE	SHEET OF

TITLE SCHEMATIC LOGIBLOC # 5992 P.C. BOARD POWER SUPPLY FOR MODEL 707

PART NUMBER	REV	SIZE	DRAWING NUMBER
	1	C	5992-1

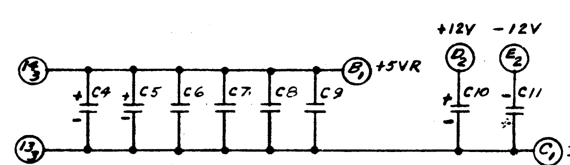
DO NOT SCALE



OBSOLETED PER ECN #3451
REPLACED BY P.C. 6286

LOCATION	TYPE	WANG LAB. No.	TERM. No. Vcc +5VR	TERM. No. ±0V	QTY
L8, 26	SN7403N	376-0028	14	7	2
L6, 16	SN7404N	376-0010	14	7	2
L15, 23	SN7406N	376-0055	14	7	2
L12	SN7430N	376-0031	14	7	1
L28	SN7442N	376-0008	16	8	1
L9, 11, 13, 14, 17, 18, 27	SN7451N	376-0012	14	7	7
L20, 21, 22	SN7474N	376-0006	14	7	3
L3	SN74121N	376-0051	14	7	1
L7, 25	8266	376-0041	16	8	2
L10	8590	376-0072	16	8	1
L1, 2	9930	376-0022	14	7	2
L19	9944	376-0024	14	7	1
L4, 5	9946	376-0023	14	7	2
L24	TMS-7246				1

COMPONENT	SIZE/TYPE	WANG LAB. No.	QTY
R1	10K 1/4W	330-4010	1
R2	39 K 1/4W	330-4039	1
R3	22K 1/4W	330-4022	1
R4	1.5K 1/4W	330-3015	1
R5 THRU 21, R30 THRU 48	4.7K 1/4W	330-3047	36
R22 THRU 29	8.2K 1/4W	330-3082	8
R49	15K 1/4W	330-4015	1
C1, 2	3.3 μF 15V	300-4016	2
C3, 12	.001 μF	300-1906	2
C4, 5, 10, 11	10 μF 16V	300-3006	4
C6, 7, 8, 9	.05 μF 12V	300-1900	4
D1	SIL DIODE	380-1001	36
D2	GER DIODE	380-0000	1



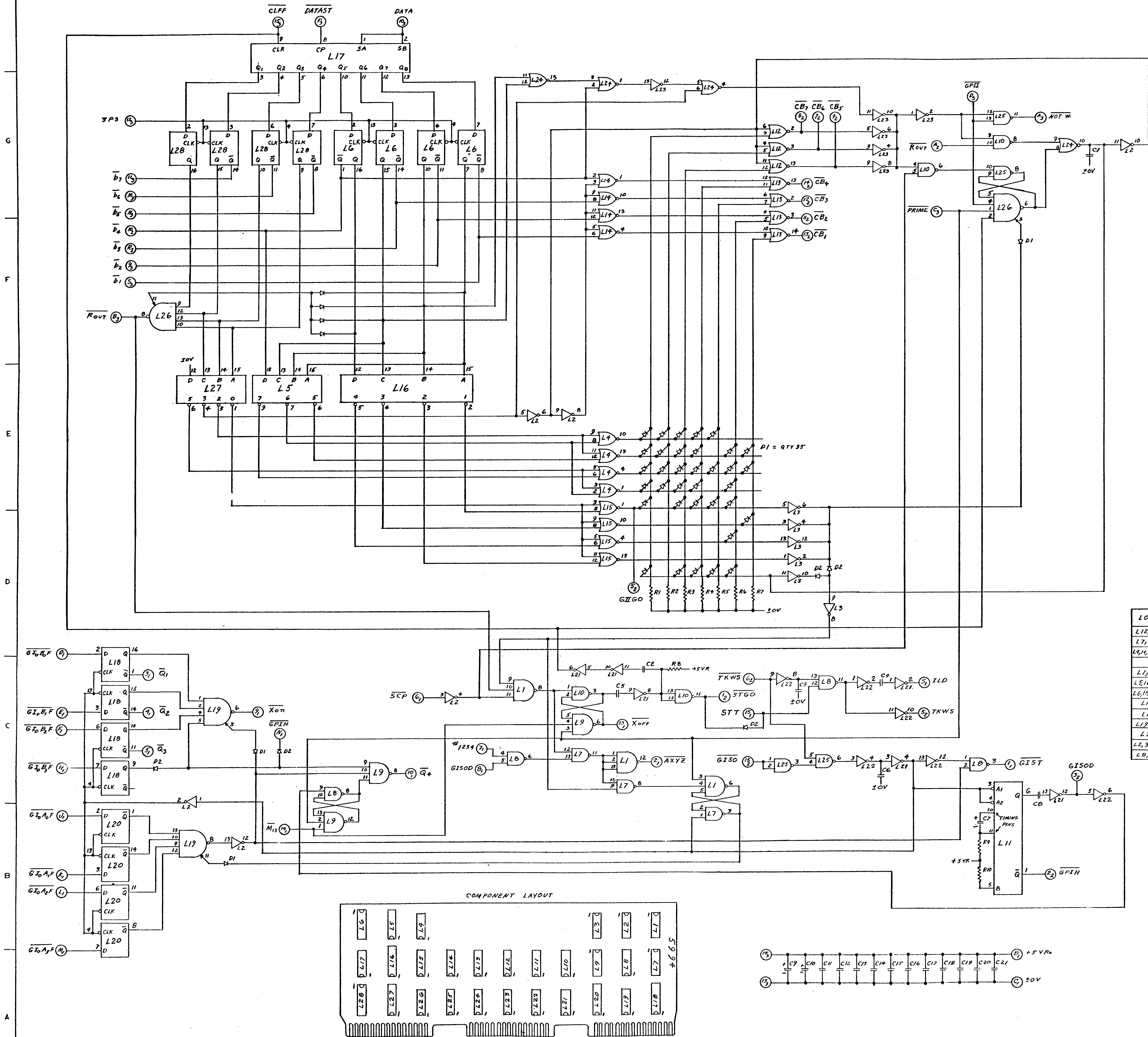
REVISION	BY	DATE
1 PER ECN 2238 ADDED ON 44 FOLK-PINL		6/24/71
2 PER ECN 3451 OBSOLETED APP'D SKH		1-31-73

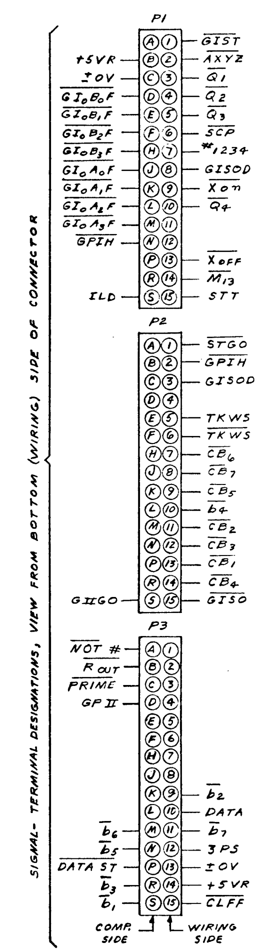
TOL. EX. AS NOTED .XX ±.010 .XXX ±.005 ANG. ±0°30' FRAC. ±1/64 FINISH:
MATERIAL
FINISH

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

IDENT | QTY | NAME | MATERIAL | DESCRIPTION
DR 83 DATE 6/2/71
CHK DATE
APPD DATE
MODEL No. 707 W.O. No. SCALE SHEET OF
TITLE SCHEMATIC LOGIBLOC, MOS CODE CONVERSION #5993
PART NUMBER | REV 2 | SIZE D | DRAWING NUMBER 5993-1

D 5993-1





LOC.	TYPE	WANG LAB. No.	TERM. No. Vcc +5VR	TERM. No. ±0V	QTY
L12,13	SP380A	376-0061	8	1	2
L7,25	SN7400N	376-0002	14	7	2
L4,14,15,24	SN7402N	376-0016	14	7	4
L1,9	SN7410N	376-0003	14	7	2
L5,16,27	SN7442N	376-0008	16	8	3
L6,18,20,28	SN7475N	376-0013	5	12	4
L11	SN74121N	376-0051	14	7	1
L17	8570	376-0071	14	7	1
L19,26	9930	376-0022	14	7	2
L21	9935	376-0025	14	7	1
L2,3,22,23	9936	376-0026	14	7	4
L8,10	9946	376-0023	14	7	2

COMPONENT	SIZE/TYPE	WANG LAB. No.	QTY
R1 THRU R7	4.7K 1/4W	330-3047	7
R8	2.2K 1/4W	330-3022	1
R9	39K 1/4W	330-4039	1
R10	10K 1/4W	330-4010	1
C1,2	.01 MF	300-1903	1
C3	390 PF	300-1390	1
C4	820 PF	300-1820	1
C5	.02 MF	300-1904	1
C6	.003 MF	300-1905	1
C7	18 MF 15VDC	300-4018	1
C8	.0047 MF	300-1910	1
C9,10	10 MF 16VDC	300-3006	2
C11 THRU C21	.05 MF	300-1900	11
D1	SIL. DIODE	380-1001	36
D2	GERMANIUM	380-0000	4

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

MODEL NO. 707

TITLE SCHEMATIC LOGIBLOC # 5994-
700 TO TELETYPE INTERFACE

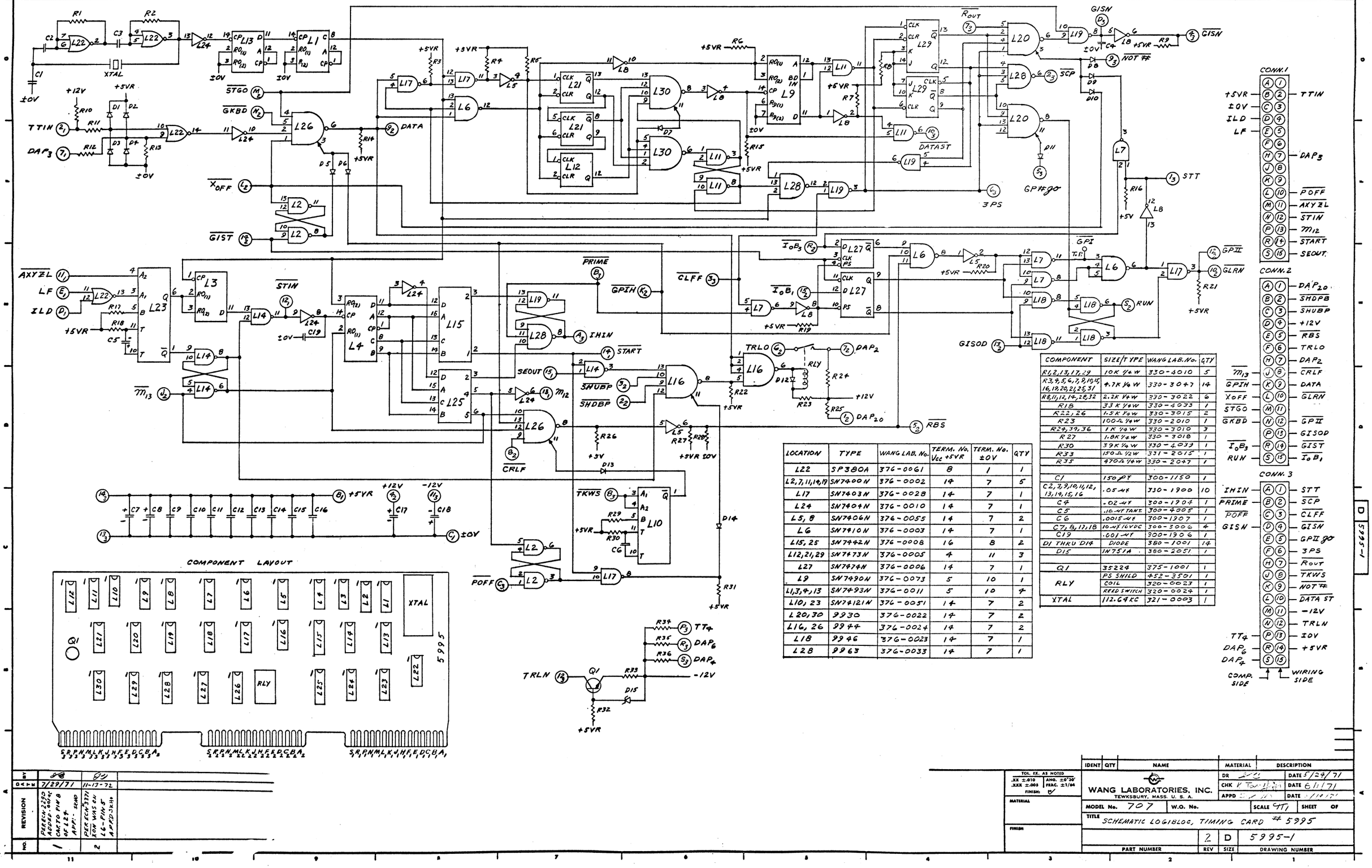
SIZE E DRAWING NUMBER 5994-1

SEE ENGRG SPECIFICATIONS No. ____

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

DWN / CHK / E. C. CONTROL / E ENGR / M ENGR / MFG ENGR

DO NOT SCALE



LOCATION	TYPE	WANG LAB. No.	TERM. No. Vcc +5VR	TERM. No. ±0V	QTY
L22	SP380A	376-0061	8	1	1
L2,7,11,14,19	SN7400N	376-0002	14	7	5
L17	SN7403N	376-0028	14	7	1
L24	SN7404N	376-0010	14	7	1
L5, 8	SN7406N	376-0055	14	7	2
L6	SN7410N	376-0003	14	7	1
L15, 25	SN7442N	376-0008	16	8	2
L12,21,29	SN7473N	376-0005	4	11	3
L27	SN7474N	376-0006	14	7	1
L9	SN7490N	376-0073	5	10	1
L1,3,4,13	SN7493N	376-0011	5	10	4
L10, 23	SN74121N	376-0051	14	7	2
L20, 30	9930	376-0022	14	7	2
L16, 26	9944	376-0024	14	7	2
L18	9946	376-0023	14	7	1
L28	9963	376-0033	14	7	1

COMPONENT	SIZE/TYPE	WANG LAB. No.	QTY
R1,2,13,17,29	10K 1/4 W	330-4010	5
R3,4,5,6,7,9,10,15,16,19,20,21,25,31	4.7K 1/4 W	330-3047	14
R8,11,12,14,28,32	2.2K 1/4 W	330-3022	6
R18	33K 1/4 W	330-4033	1
R22, 26	1.5K 1/4 W	330-3015	2
R23	100Ω 1/4 W	330-2010	1
R24,34,36	1K 1/4 W	330-3010	3
R27	1.8K 1/4 W	330-3018	1
R30	39K 1/4 W	330-4039	1
R33	150Ω 1/2 W	331-2015	1
R35	470Ω 1/4 W	330-2047	1
C1	150 pF	300-1150	1
C2,3,9,10,11,12,13,14,15,16	.05 μF	330-1900	10
C4	.02 μF	300-1904	1
C5	.18 μF TANT.	300-4005	1
C6	.0015 μF	300-1907	1
C7,8,17,18	10 μF 16VDC	300-3006	4
C19	.001 μF	300-1906	1
D1 THRU D14	DIODE	380-1001	14
D15	IN751A	380-2051	1
Q1	35224	375-1001	1
RLY	PS SHILD	452-3501	1
	COIL	320-0023	1
	REED SWITCH	320-0024	1
XTAL	112.64KC	321-0003	1

NO.	REVISION	DATE	BY
1	PER ECN 2290 ADDED .001 μF CAP. TO PIN 8 OF L24 APP'. SKHO	7/29/71	
2	PER ECN 3371 XON WAS ON L6-PIN 5 APP'D SKH	11-13-72	

TOL. EX. AS NOTED
.XX ±.010 ANG. ±0°30'
.XXX ±.005 FRAC. ±1/64
FINISH: ✓
MATERIAL
FINISH

IDENT	QTY	NAME	MATERIAL	DESCRIPTION

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

DR | DATE 5/24/71
CHK K Tan | DATE 6/1/71
APPD | DATE 1/19/71

MODEL No. 707 W.O. No. SCALE 4T1 SHEET OF

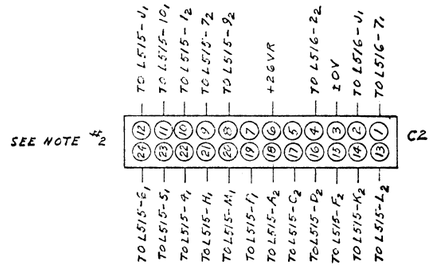
TITLE SCHEMATIC LOGIBLOC, TIMING CARD #5995

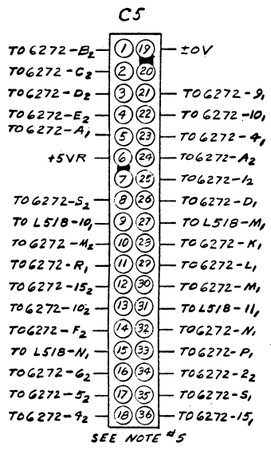
PART NUMBER | REV 2 | SIZE D | DRAWING NUMBER 5995-1

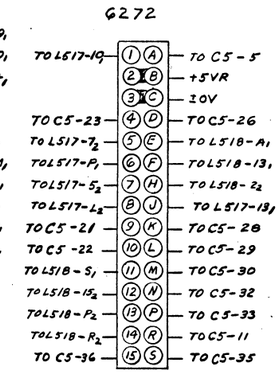
D 5995-1

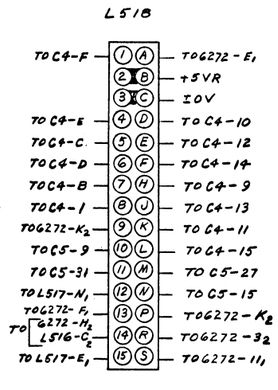
DO NOT SCALE

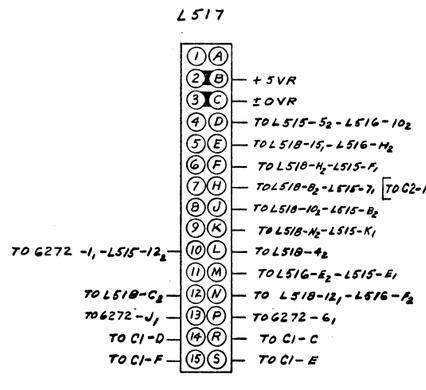
NOTE:—
1. INPUT CABLE MODEL 701/702 DWG.C6080
2. TYPEWRITER CABLE DWG.6021-2
3. POWER CABLE DWG.6021-3
4. I/O CABLE DWG.6021-4
5 TYPEWRITER CABLE DWG.C6021-5

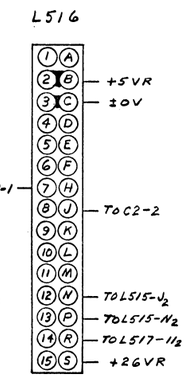


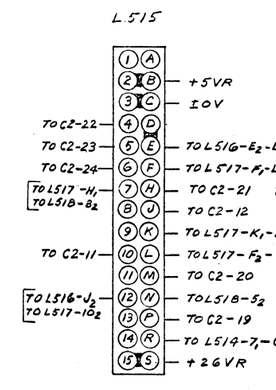


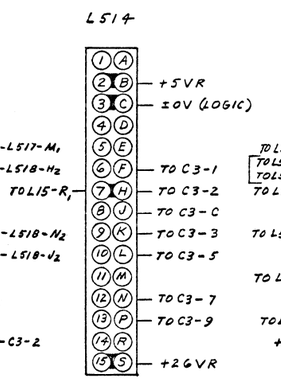


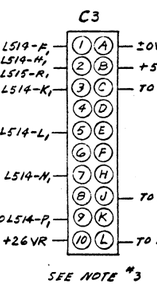


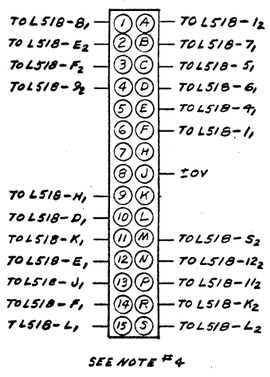


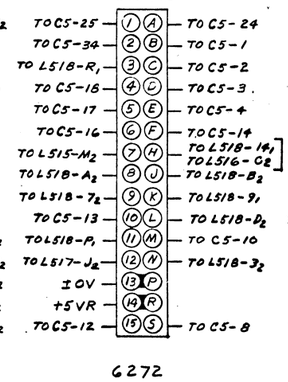


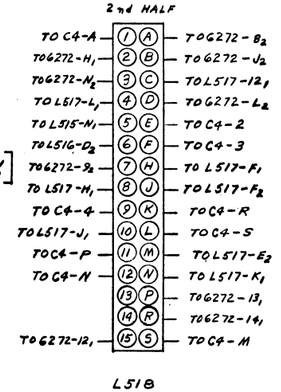


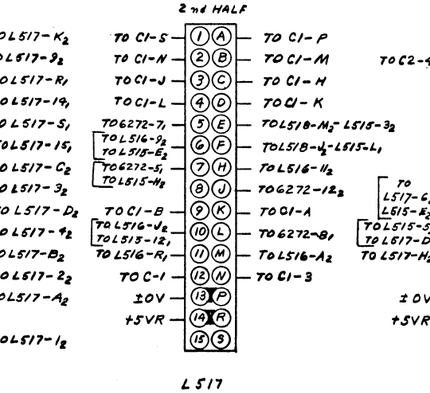


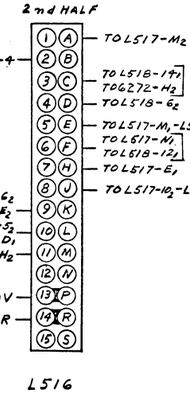


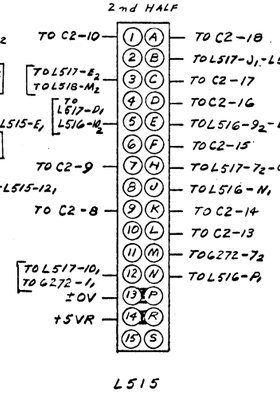


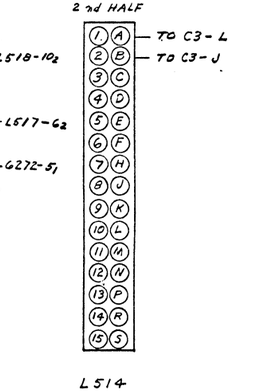












BY	BD	BD	BD	
DATE	2-11-72	6-9-72	6-30-72	
REVISION	PER ECN 2762 WAS L514-1 ADD SKT	PER ECN 2998 ADDED LINKS BETWEEN J/P3 AND L518 ADD'L SKT	PER ECN 3164 REMOVED L519 ADD'D SKT	
NO.	1	2	3	

IDENT	QTY	NAME	MATERIAL	DESCRIPTION
		WANG LABORATORIES, INC. TEWKSBURY, MASS. U. S. A.	DR JB	DATE 8/27/71
			CHK	DATE
			APPD	DATE 12-27-71

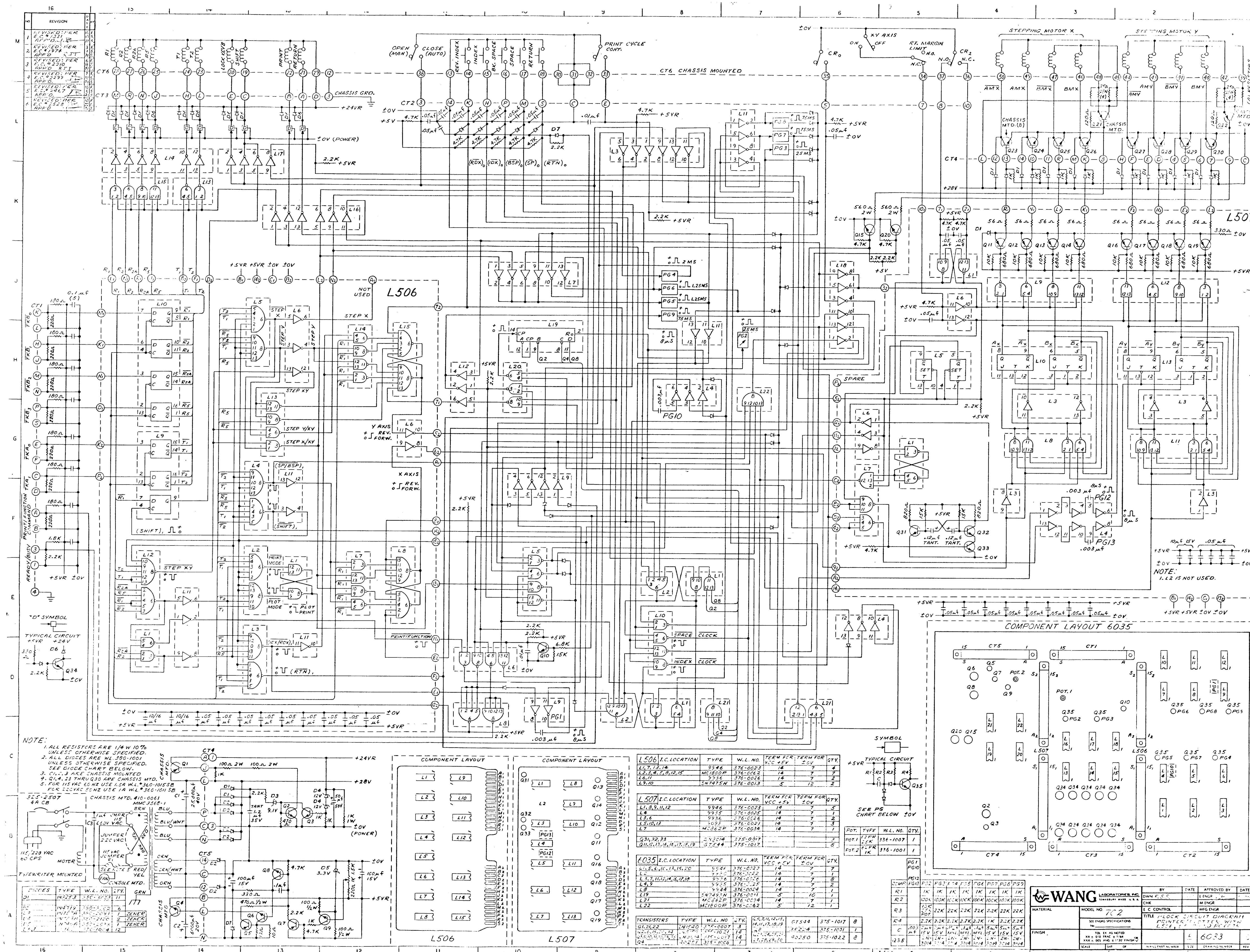
TOL. EX. AS NOTED .XX ±.010 ANG. ±0°30' .XXX ±.005 FRAC. ±1/64 FINISH
MATERIAL
FINISH

MODEL No. 711 | W.O. No. | SCALE 4/7 | SHEET OF

TITLE SCHEMATIC, MOTHER BOARD 6021

PART NUMBER | REV 3 | SIZE D | DRAWING NUMBER 6021-1

D 6021-1



NOTE:

1. ALL RESISTORS ARE 1/4 W 10% UNLESS OTHERWISE SPECIFIED.
2. ALL DIODES ARE WL 380-1001 UNLESS OTHERWISE SPECIFIED. SEE DIODE CHART BELOW.
3. C1, 2, 3 ARE CHASSIS MOUNTED
4. Q1, 4, 23 THRU Q30 ARE CHASSIS MTD.
5. FOR 115 VAC 60 HZ USE 1.5A W.L.* 360-1015SB
   FOR 220VAC 50 HZ USE 1A W.L.* 360-1011 SB

DIODES	TYPE	W.L. NO.	QTY.	
D1	1N3253	[illegible]	11	
D2	1N4719	[illegible]	6	
D3	1N757A	[illegible]	1	ZENER
D4	[illegible]	[illegible]	2	ZENER
D5	[illegible]	[illegible]	1	ZENER
D6, 7	[illegible]	[illegible]	12	

L506 I.C. LOCATION	TYPE	W.L. NO.	TERM FOR VCC +5V	TERM FOR ±0V	QTY.
L1, 7, 13, 14	9946	376-0023	14	7	4
L2, 3, 4, 5, 8, 12, 15	MC1800P	376-0062	14	7	7
L6, 11	9936	376-0026	14	7	2
L9, 10	SN7475N	376-0013	5	12	2

L507 I.C. LOCATION	TYPE	W.L. NO.	TERM FOR VCC +5V	TERM FOR ±0V	QTY.
L1, 8, 9, 11, 12	9946	376-0023	14	7	5
L4	9935	376-0025	14	7	1
L3, 6	9936	376-0026	14	7	2
L5, 10, 13	9093	376-0021	14	7	3
L7	MC862P	376-0034	14	7	1
Q31, 32, 33	2N3014	375-0017			3
Q11, 12, 13, 14, 16, 17, 18, 19	GT544	375-1017			8

6035 I.C. LOCATION	TYPE	W.L. NO.	TERM FOR VCC +5V	TERM FOR ±0V	QTY.
L1, 5, 6, 10, 13, 15, 20	9946	376-0023	14	7	7
L2	9930	376-0022	14	7	1
L3, 7, 11, 12, 14, 16, 17, 18	9936	376-0026	14	7	8
L4, 9	9935	376-0025	14	7	2
L8	9944	376-0024	14	7	1
L19	SN7493N	376-0011	5	10	1
L21	MC862P	376-0034	14	7	1
L22	MC1800P	376-0062	5	12	1

TRANSISTORS	TYPE	W.L. NO	QTY.
Q1, 21, 22	2N1540	375-0007	3
Q2, 6, 15, 20, 34	[illegible]	375-1021	14
Q3, 9, 10, 31, 32, 33, 35	2N3014	375-0017	14
Q4	40251	375-1008	1

Q5, 7, 11, 12, 13, 14, 16, 17, 18, 19	GT544	375-1017	8
Q8	35224	375-1001	1
Q23, 24, 25, 26, 27, 28, 29, 30	40250	375-1022	8

POT.	TYPE	W.L. NO.	QTY.
POT. 1	62PR 25K	336-1007	1
POT. 2	62PR 1K	336-1001	1

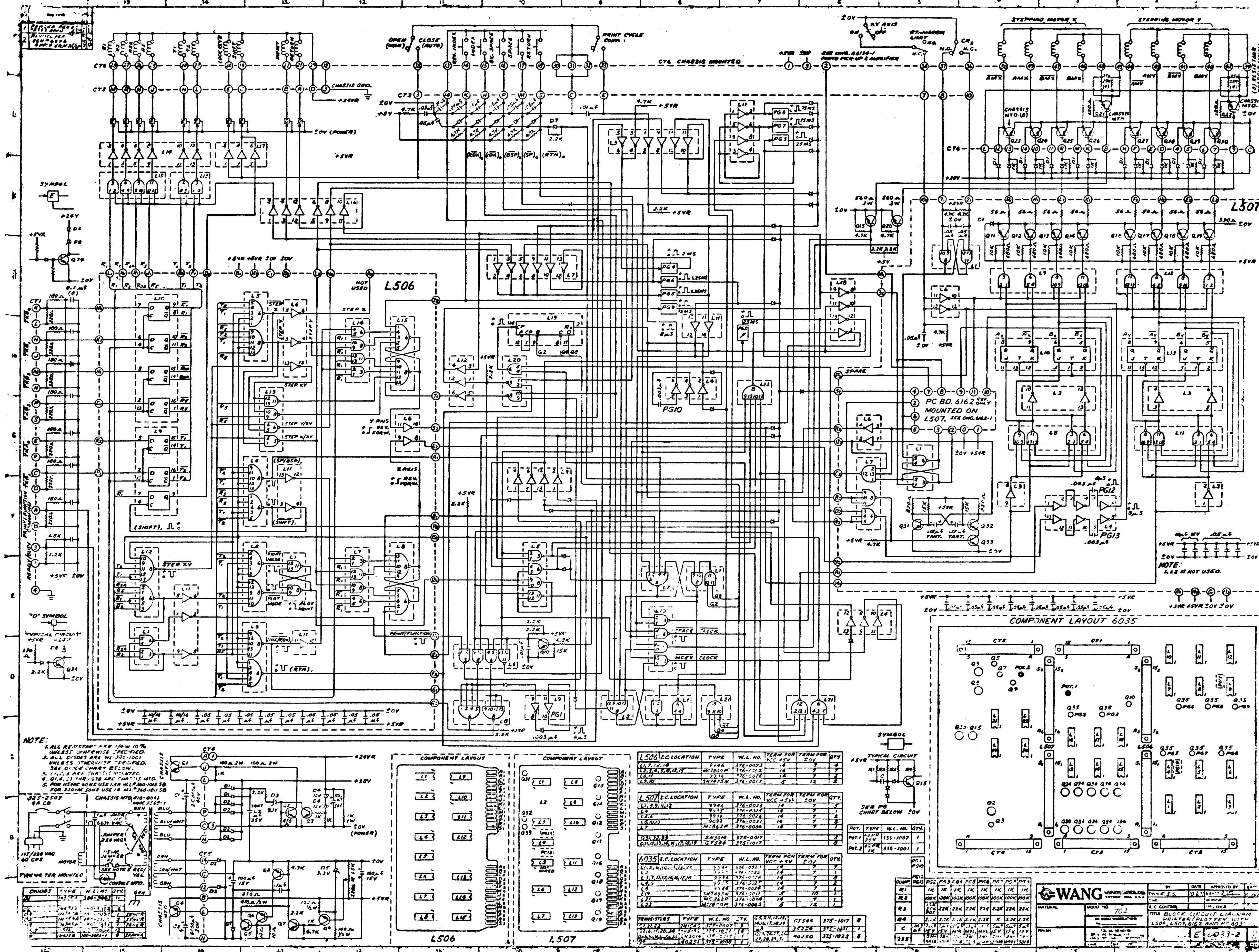
COMP.	PG1 PG10 PG12 PG13	PG2	PG3	PG4	PG5	PG6	PG7	PG8	PG9
R1		1K	1K	1K	1K	1K	1K	1K	1K
R2		100K	100K	100K	100K	100K	100K	100K	100K
R3		10K 25K POT.	22K	22K	22K	22K	2.2K	22K	22K
R4		2.2K	2.2K	2.2K	2.2K	2.2K	1K	2.2K	2.2K
C	.003 µf	2µf 15V	2µf 15V	.15µf MYL.	.1µf MYL.	.1µf MYL.	5µf 15V	5µf 15V	5µf 15V
Q35		2N-3014	2N-3014	2N-3014	2N-3014	2N-3014	2N-3014	2N-3014	2N-3014

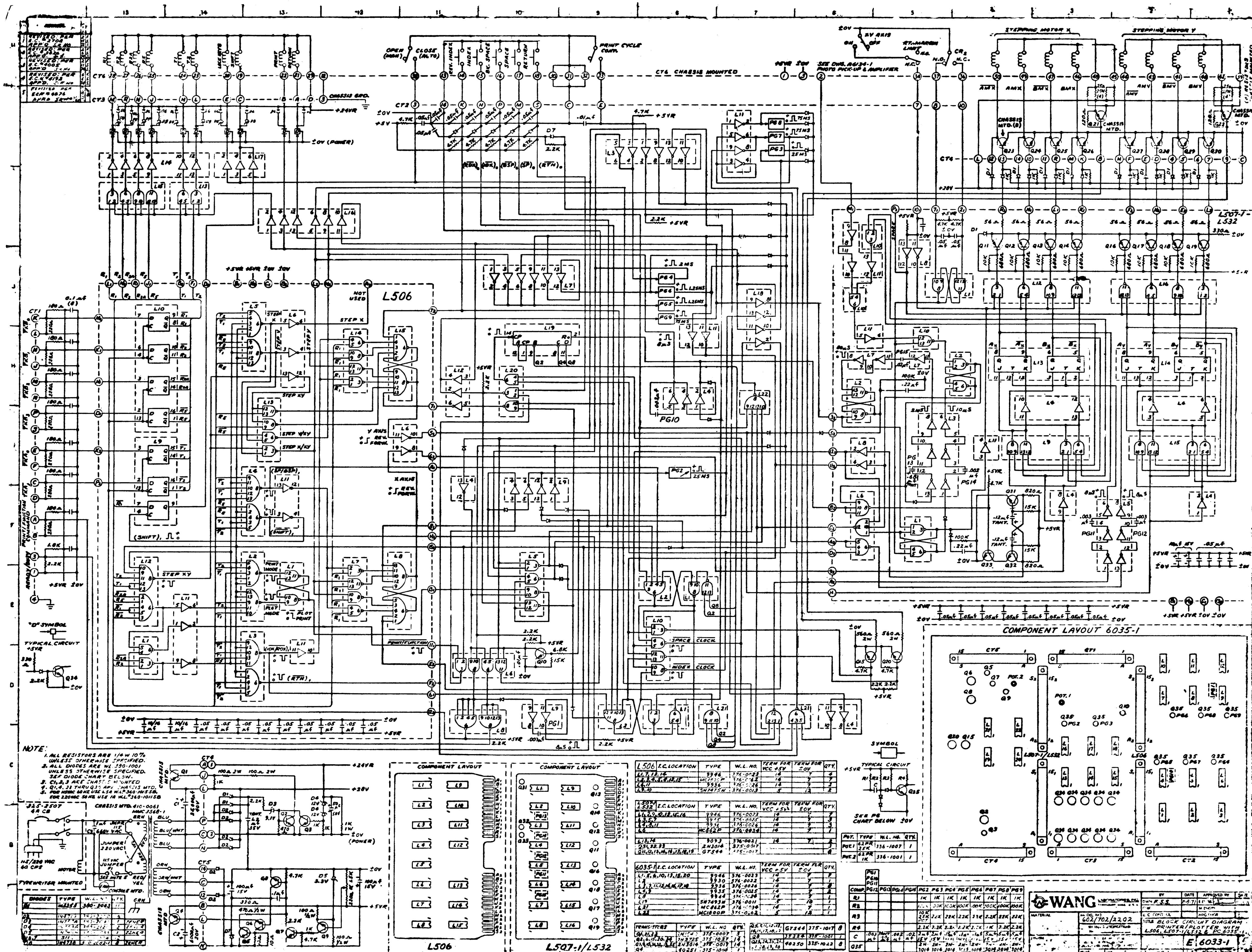
WANG LABORATORIES, INC. TEWKSBURY MASS. U.S.A.

MATERIAL	MODEL NO. 702	BY	DATE	APPROVED BY
	SEE ENGRG SPECIFICATIONS No.	DWN F.S.S.		E ENGR
FINISH	TOL EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH	CHK		M ENGR
	SCALE / SHT OF	E C CONTROL		MFG ENGR

TITLE: BLOCK CIRCUIT DIAGRAM PRINTER/PLOTTER WITH L506, L507 AND PC6035

WANG PART NUMBER | SIZE: L | DRAWING NUMBER: 6033 | REV


L506
L507
COMPONENT LAYOUT 6035
COMPONENT LAYOUT
STEPPING MOTOR X
STEPPING MOTOR Y
CT4 CHASSIS MOUNTED
PC BD. 6162 MOUNTED ON L507.
NOTE:
1. ALL RESISTORS ARE 1/4W 10% UNLESS OTHERWISE SPECIFIED.
2. ALL DIODES ARE WL 330-1001 UNLESS OTHERWISE SPECIFIED. SEE DIODE CHART BELOW.
3. C1,2,3 ARE CHASSIS MOUNTED.
4. Q1,4, 23 THRU 230 ARE CHASSIS MTD.
5. FOR 115VAC 60HZ USE 1.5A W.L.# 360-1015 SB
FOR 220VAC 50HZ USE 1A W.L.# 360-1011 SB
CHASSIS MTD. 410-0041
WANG LABORATORIES, INC.
MODEL NO. 702
TITLE BLOCK CIRCUIT DIAGRAM PRINTER/PLOTTER WITH L506, L507, 6162 AND PC 6035
E 6033-2


L506
L507-1/L532
COMPONENT LAYOUT 6035-1
COMPONENT LAYOUT
STEPPING MOTOR X
STEPPING MOTOR Y
CT6 CHASSIS MOUNTED
WANG LABORATORIES, INC.
DWN F.S.S. 11-9-71
MODEL NO. 602/702/2202
TITLE BLOCK CIRCUIT DIAGRAM PRINTER/PLOTTER WITH L506, L507-1/L532 & PC 6035-1
E 6033-1

NOTE:

1. ALL RESISTORS ARE 1/4W 10% UNLESS OTHERWISE SPECIFIED.
2. ALL DIODES ARE W.L. 380-1001 UNLESS OTHERWISE SPECIFIED. SEE DIODE CHART BELOW.
3. C1, 2, 3 ARE CHASSIS MOUNTED
4. Q1, 4, 23 THRU Q30 ARE CHASSIS MTD.
5. FOR 115VAC 60 HZ USE 4.5A W.L.# 360-1015SB. FOR 220VAC 50 HZ USE 1A W.L.# 360-1011SB

DIODES	TYPE	W.L. NO.	QTY.	
[illegible]	MZ255	380-3043	11	
D2	[illegible]	[illegible]	[illegible]	
D3	1N7[illegible]A	[illegible]-2091	1	ZENER
D4	[illegible]	[illegible]	2	ZENER
D5	[illegible]	[illegible]	1	ZENER
[illegible]	SIL.	[illegible]	[illegible]	
[illegible]	1N4736	[illegible]	[illegible]	ZENER

L506	I.C. LOCATION	TYPE	W.L. NO.	TERM FOR VCC +5V	TERM FOR ±0V	QTY.
	L1,7,13,14	9946	376-0023	14	7	4
	L2,3,4,5,6,12,15	MC1800P	376-0062	14	7	7
	L8,11	9936	376-0026	14	7	2
	L9,10	SN7413N	376-0013	5	12	2

L507-1 L532	I.C. LOCATION	TYPE	W.L. NO.	TERM FOR VCC +5V	TERM FOR ±0V	QTY.
	L1,2,9,10,12,15,16	9946	376-0023	14	7	7
	L3,5,7	9935	376-0025	14	7	3
	L4,8,11	9936	376-0026	14	7	3
	L6	MC862P	376-0034	14	7	1
	L13,14	9093	376-0021	14	7	2
	Q31,32,33	2N3014	375-0017			3
	Q11,12,13,14,16,17,18,19	GT544	375-1017			8

6035-1	I.C. LOCATION	TYPE	W.L. NO.	TERM FOR VCC +5V	TERM FOR ±0V	QTY.
	L1,5,6,10,13,15,20	9946	376-0023	14	7	7
	L2	9930	376-0022	14	7	1
	L3,7,11,12,14,16,17,18	9936	376-0026	14	7	8
	L4,9	9935	376-0025	14	7	2
	L8	9944	376-0028	14	7	1
	L19	SN7493N	376-0011	5	10	1
	L21	MC862P	376-0034	14	7	1
	L22	MC1000P	375-0062	5	12	1

TRANSISTORS	TYPE	W.L. NO	QTY.
Q1,21,22	2N1540	375-0007	3
Q2,[illegible],20,34	2N3725	375-1027	14
Q3,[illegible]	2N3014	375-0017	14
Q4	40251	375-1004	1

Q5,X11,12,13,14,16,17,18,19	GT544	375-1017	8
Q8	[illegible]	375-1001	1
Q23,24,25,26,27,28,29,30	40250	375-1022	8

POT.	TYPE	W.L. NO.	QTY.
POT. 1	62PR 25K	336-1007	1
POT. 2	62PR 1K	336-1001	1

COMP.	PG1 PG10 PG11 PG12	PG13	PG14	PG16	PG2	PG3	PG4	PG5	PG6	PG7	PG8	PG9
R1					1K	1K	1K	1K	1K	1K	1K	1K
R2					100K	100K	100K	100K	100K	100K	100K	100K
R3					10K 25K POT	22K	22K	22K	22K	2.2K	22K	22K
R4					2.2K	2.2K	2.2K	2.2K	2.2K	1K	2.2K	2.2K
C	.003 µf	TANT 10 µf	.002 µf	.02 µf	2µf 15V	2µf 15V	.15µf MYL	.1µf MYL	.1µf MYL	5µf 15V	5µf 15V	5µf 15V
Q35					2N-3014	2N-3014	2N-3014	2N-3014	2N-3014	2N-3014	2N-3014	2N-3014

WANG LABORATORIES, INC.

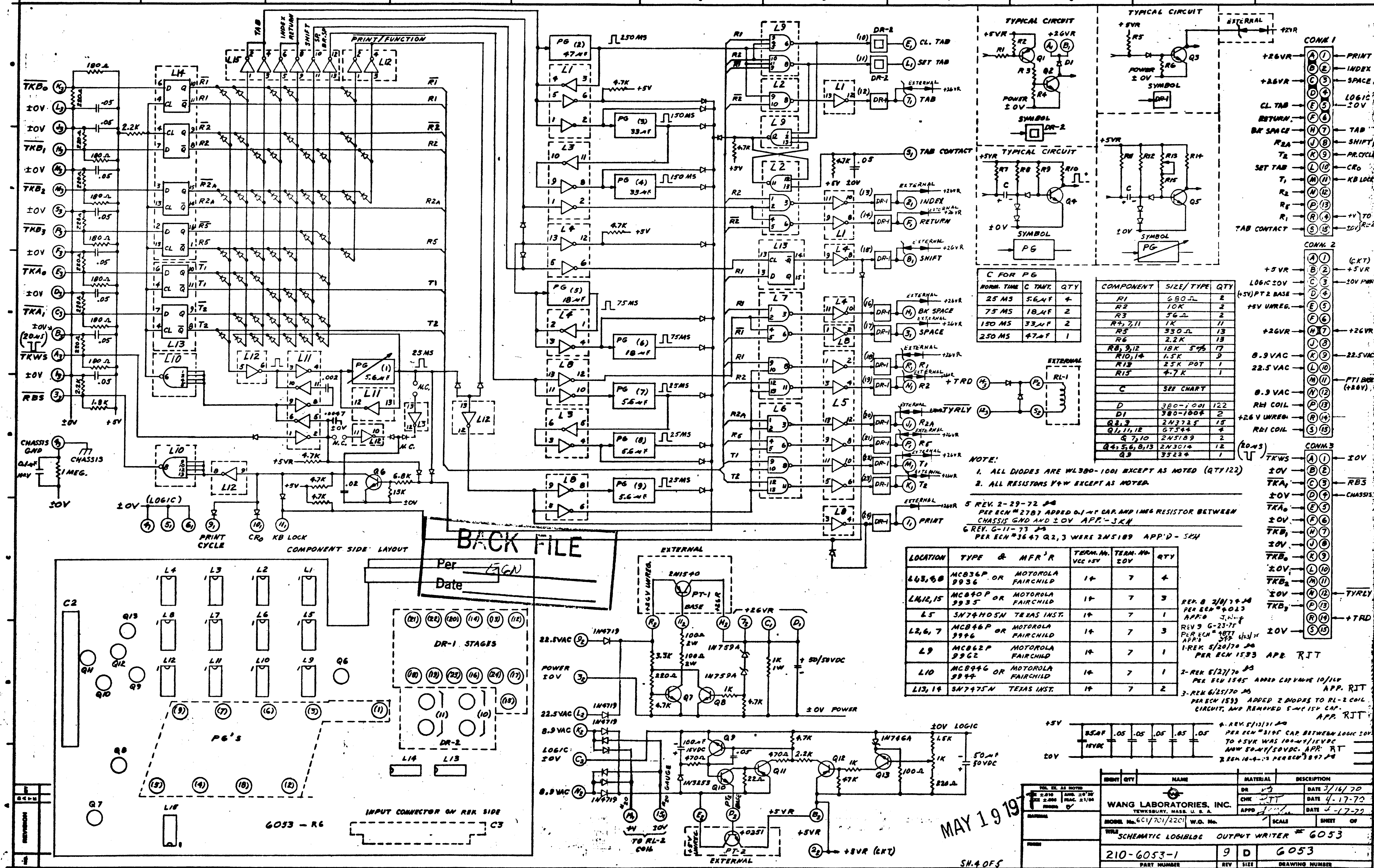
BY	DATE	APPROVED BY
DWN F.S.S.	11-4-71	
CHK		
E.C. CONTROL		

MATERIAL

MODEL NO. 602/702/2202

TITLE BLOCK CIRCUIT DIAGRAM PRINTER/PLOTTER WITH L506, L507-1/L532 & 6035

E 6033-3 15



C FOR PG		
NORM. TIME	C TANT.	QTY
25 MS	5.6 µF	4
75 MS	18 µF	2
150 MS	33 µF	2
250 MS	47 µF	1

COMPONENT	SIZE/TYPE	QTY
R1	680 Ω	2
R2	10K	2
R3	56 Ω	2
R4, 7, 11	1K	11
R5	330 Ω	13
R6	2.2K	13
R8, 9, 12	18K 5%	17
R10, 14	1.5K	9
R13	25K POT	1
R15	4.7K	1
C	SEE CHART	
D	380-1001	122
D1	380-1004	2
Q2, 3	2N3725	15
Q1, 11, 12	GT544	4
Q 7, 10	2N5189	2
Q4, 5, 6, 8, 13	2N3014	12
Q9	35224	1

NOTE:

1. ALL DIODES ARE WL380-1001 EXCEPT AS NOTED (QTY 122)
2. ALL RESISTORS 1/4 W EXCEPT AS NOTED

5 REV. 2-29-72
PER ECN #2787 ADDED 0.1 µF CAP. AND 1 MEG RESISTOR BETWEEN CHASSIS GND AND ±0V APP. - SKH

6 REV. 6-11-73
PER ECN #3647 Q2, 3 WERE 2N5189 APP'D - SKH

LOCATION	TYPE & MFR'R		TERM. No. VCC +5V	TERM. No. ±0V	QTY
L4, 3, 8	MC836P OR 9936	MOTOROLA FAIRCHILD	14	7	4
L11, 12, 15	MC840P OR 9935	MOTOROLA FAIRCHILD	14	7	3
L5	SN74H05N	TEXAS INST.	14	7	1
L2, 6, 7	MC846P OR 9946	MOTOROLA FAIRCHILD	14	7	3
L9	MC862P 9962	MOTOROLA FAIRCHILD	14	7	1
L10	MC8446 OR 9944	MOTOROLA FAIRCHILD	14	7	1
L13, 14	SN7475N	TEXAS INST.	14	7	2

REV. 8 2/8/74
PER ECN #4023
APP'D J. W.

REV 9 6-23-75
PER ECN #4877
APP'D

1-REV. 5/20/70
PER ECN 1533 APP. RJT

2-REV 5/27/70
PER ECN 1545 ADDED CAP VALUE 10/16V
APP. RJT

3-REV 6/25/70
PER ECN 1599 ADDED 2 DIODES TO RL-2 COIL CIRCUIT, AND REMOVED 5 µF 15V CAP.
APP. RJT

4. REV. 5/13/71
PER ECN #2145 CAP. BETWEEN LOGIC ±0V TO +5VR WAS 100 µF/15VDC NOW 50 µF/50VDC. APP: RT

7 REV 10-4-…3 PER ECN 3897

IDENT	QTY	NAME	MATERIAL	DESCRIPTION

TOL. EX. AS NOTED .XX ±.010 .XXX ±.005 ANG. ±0°30' FRAC. ±1/64 FINISH

MATERIAL

FINISH

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

DR [illegible] DATE 3/16/70
CHK RJT DATE 4-17-70
APPD [illegible] DATE 4-17-70

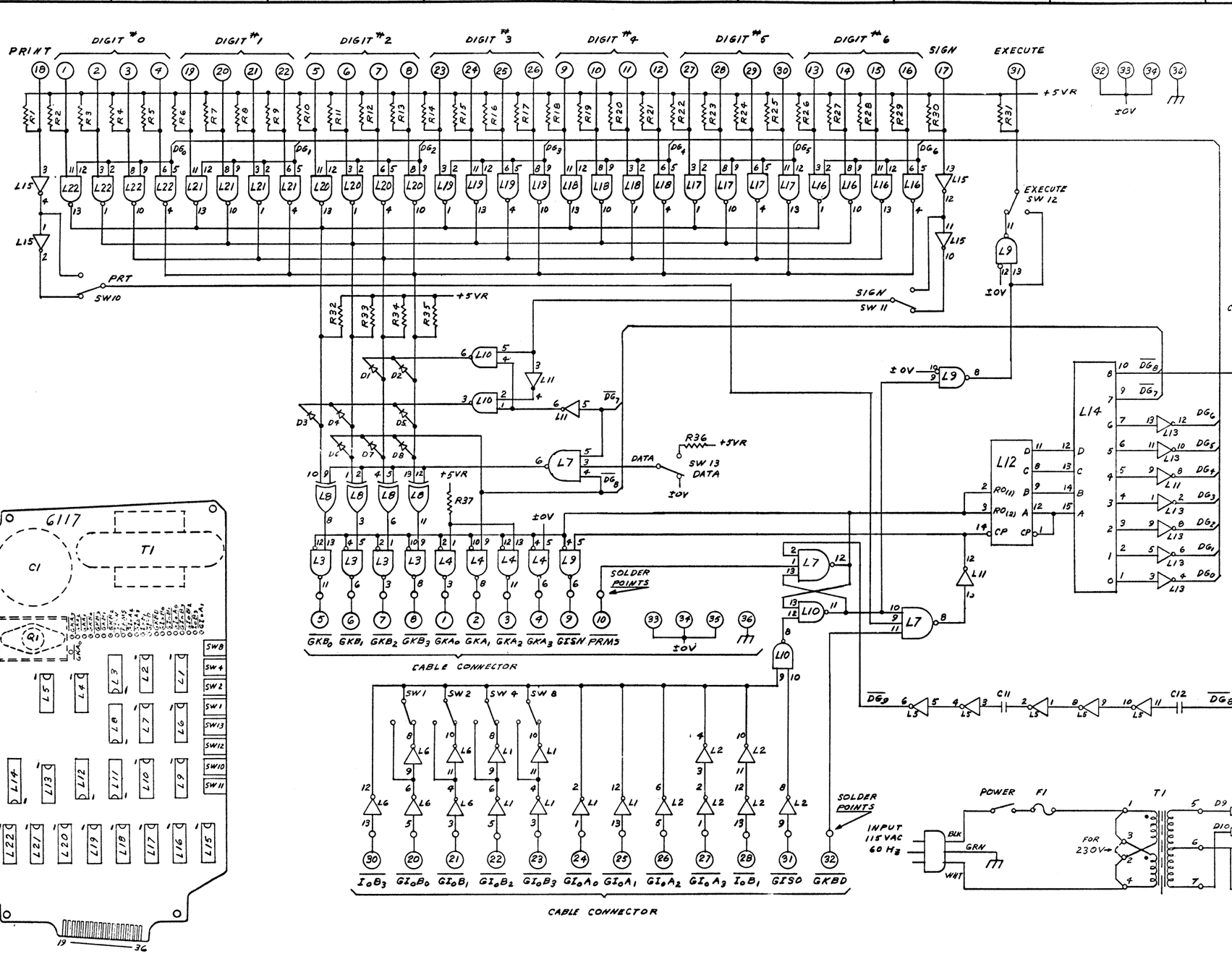
MODEL No. 601/701/2201 W.O. No. SCALE SHEET OF

TITLE SCHEMATIC LOGIBLOC OUTPUT WRITER # 6053

PART NUMBER	REV	SIZE	DRAWING NUMBER
210-6053-1	9	D	6053

SH. 4 OF 5

DO NOT SCALE



LOCATION	TYPE	WANG LAB. No.	TERM. No. V_{cc} +5VR	TERM. No. ±0V	QTY
L3, 4, 9	8T03	376-0078	14	7	3
L16, 17, 18, 19, 20, 21, 22	SN7401N	376-0015	14	7	7
L11, 13, 15	SN7404N	376-0010	14	7	3
L7	SN7410N	376-0003	14	7	1
L14	SN7442N	376-0008	16	8	1
L8	SN7486N	376-0036	14	7	1
L12	SN7493N	376-0011	5*	10	1
L2	9936	376-0026	14	7	1
L10	9946	376-0023	14	7	1
L1, 6	SN7405N	376-0023	14	7	2
L5	9935	376-0025	14	7	1

COMPONENT	SIZE/TYPE	WANG LAB. No	QTY
Q1	40250V1	375-1028	1
R1 THRU R30, 37	47K ¼W	330-4047	31
R31	470Ω ¼W	330-2047	1
R36, 38	10K ¼W	330-4010	2
R32, 33, 34, 35	1.5K ¼	330-3015	4
R39	47Ω ½W	330-1047	1
R40	10Ω ½W	330-1010	1
C1	4000μF 15VDC	300-3016	1
C2, 3	10μF 15VDC	300-3006	2
C4 THRU C10	.05μF	300-1900	7
D1 THRU D8	SIL DIODE	380-1001	8
D9, 10	EM403	380-4000	2
D11	IN752A	380-2056	1
C11	.001μF	300-1906	1
C12	.22μF	350-1202	1
T1	MM5-40551	410-0067	1
F1	.125ASB 110VAC	360-1000	1
	FUSE CLIP	360-0002	2
	RIVET	651-0601	2
	.0625ASB 220VAC	360-0900	1
S1, 2, 4, 8, 10, 11, 12, 13	SPDT	325-2105	8

REV	NO.	REVISION	BY	DATE

IDENT	QTY	NAME	MATERIAL	DESCRIPTION

TOL. EX. AS NOTED
.XX ±.010 ANG. ±0°30'
.XXX ±.003 FRAC. ±1/64
FINISH

MATERIAL

FINISH

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

DR [illegible] DATE 7/2/71
CHK [illegible] DATE 7/6/71
APPD [illegible] DATE 10/6/71

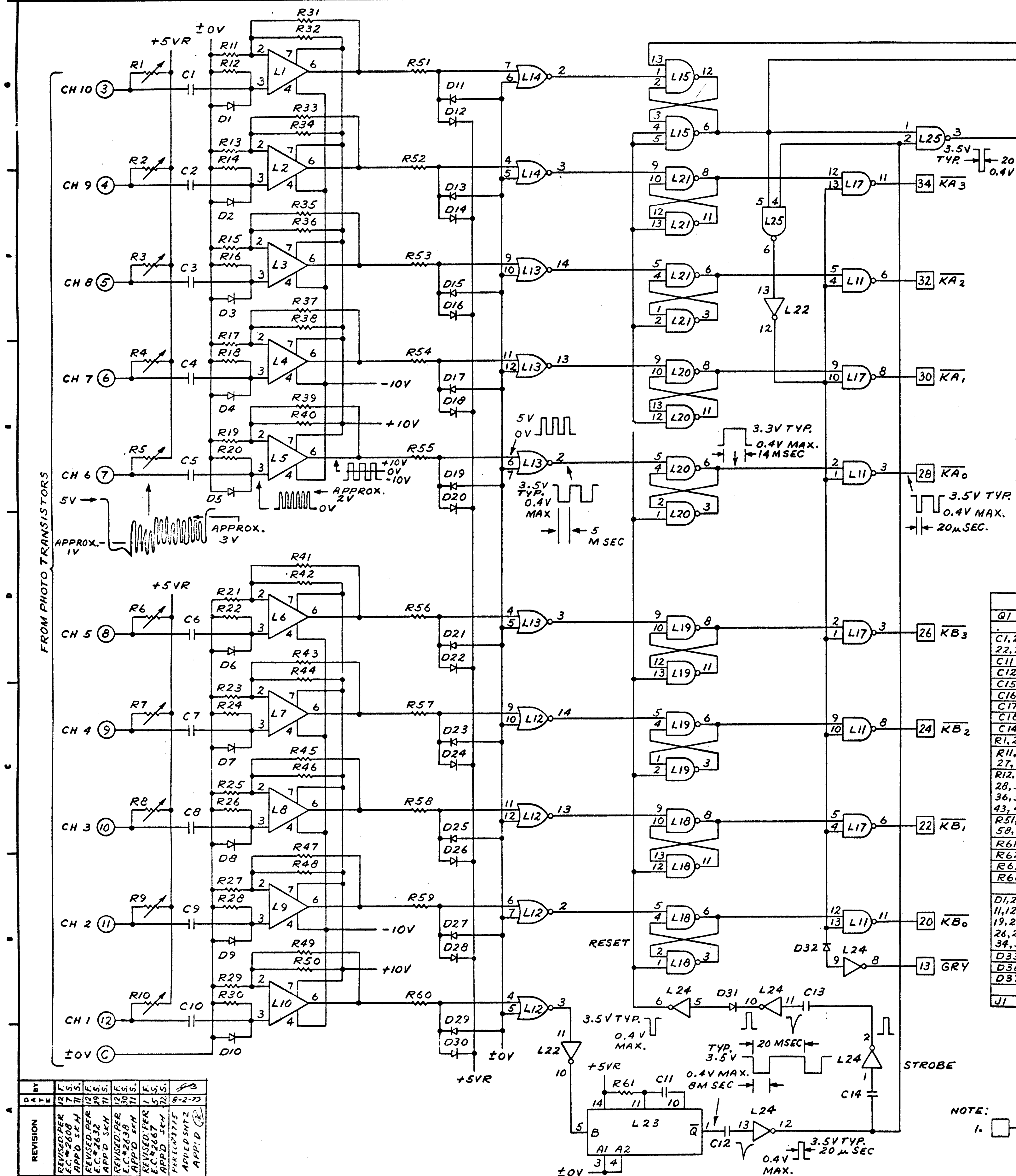
MODEL No. 705 W.O. No. SCALE NONE SHEET OF

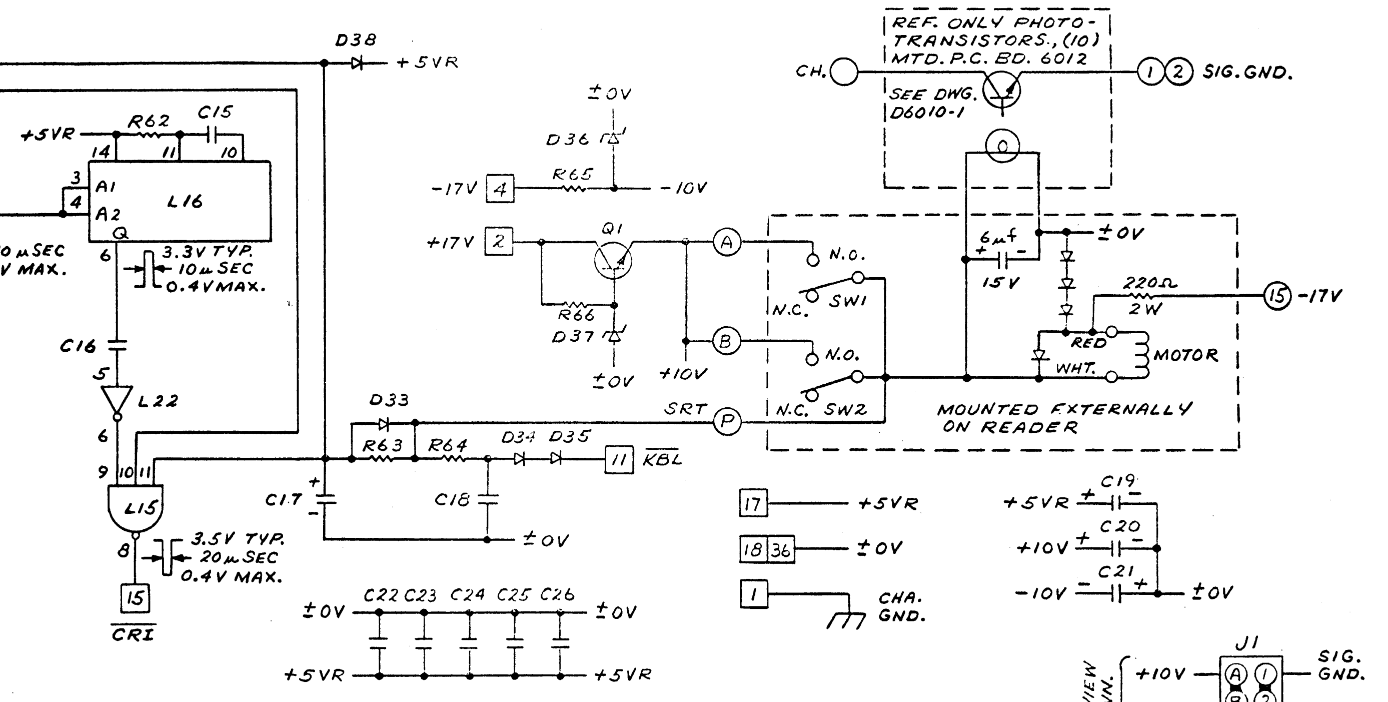
TITLE SCHEMATIC, LOGIBLOC, INTERFACE ALT 6117

PART NUMBER	REV	SIZE	DRAWING NUMBER
		D	6117-1

6117-1

DO NOT SCALE



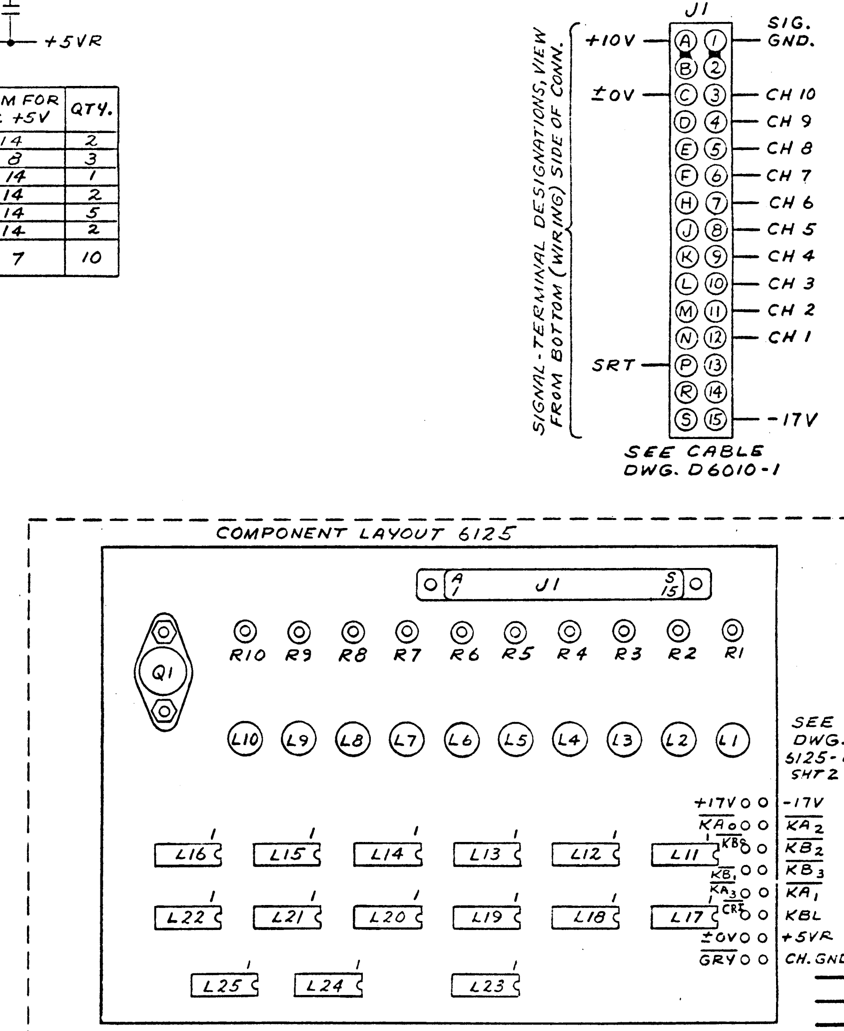


I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5V	QTY.
L11,17	F9946	376-0023	7	14	2
L12,13,14	SP380A	376-0061	1	8	3
L15	F9963	376-0033	7	14	1
L16,23	SN7412IN	376-0051	7	14	2
L18,19,20,21,25	SN7400N	376-0002	7	14	5
L22,24	F9935	376-0025	7	14	2
L1,2,3,4,5,6,7,8,9,10	F741C	376-0074	4	7	10

COMPONENT	SIZE, TYPE	W.L. NO	QTY.
Q1	40250	375-1022	1
C1,2,3,4,5,6,7,8,9,10,22,23,25,26	.01 µf	300-1903	14
C11	1µf 35V TANT.	300-4000	1
C12,13	.01µf MYLAR	300-2210	2
C15	.001µf MYLAR	300-2010	1
C16, 24	.001µf	300-1906	2
C17,19,20,21	10µf 15V	300-3006	4
C18	.1µf	300-1901	1
C14	.0047 MYLAR	300-2047	1
R1,2,3,4,5,6,7,8,9,10	1M HEL. POT.	336-1009	10
R11,13,15,17,19,21,23,25,27,29,64	47K	330-4047	11
R12,14,16,18,20,22,24,26,28,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50	1M	330-6010	30
R51,52,53,54,55,56,57,58,59,60,63	10K	330-4010	11
R61	12K	330-4012	1
R62	18K	330-4018	1
R65	120Ω 1W	332-2012	1
R66	220Ω 1W	332-2022	1
D1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,34,35,38	ADAM SIL.	380-1001	35
D33	GERM.	380-0000	1
D36	1N758A 10V ZEN.	380-2100	1
D37	1N962B 11V ZEN.	380-2126	1
J1	225-21521-110	350-0011	1

NOTE:
1. ☐ PIN NO.'S P1 FROM DWG. 6125-1 SHT 2 OF 2

SHEET 2 OF 2 OF THIS DWG "C" SIZE



NO.	REVISION	DATE	BY
1	REVISED PER E.C.#2600 APPD SKH	12-5-71	F.S.
2	REVISED PER E.C.#2632 APPD SKH	29-12-71	F.S.
3	REVISED PER E.C.#2638 APPD SKH	30-12-71	E.S.
4	REVISED PER E.C.#2667 APPD SKH	3-2-72	F.S.
5	PER ECN 3718 APPD SHT 2 APP'D	6-2-73	

IDENT	QTY	NAME	MATERIAL	DESCRIPTION

TOL. EX. AS NOTED .XX ±.010 .XXX ±.005 ANG. ±0°30' FRAC. ±1/64 FINISH: ✓

MATERIAL

FINISH

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

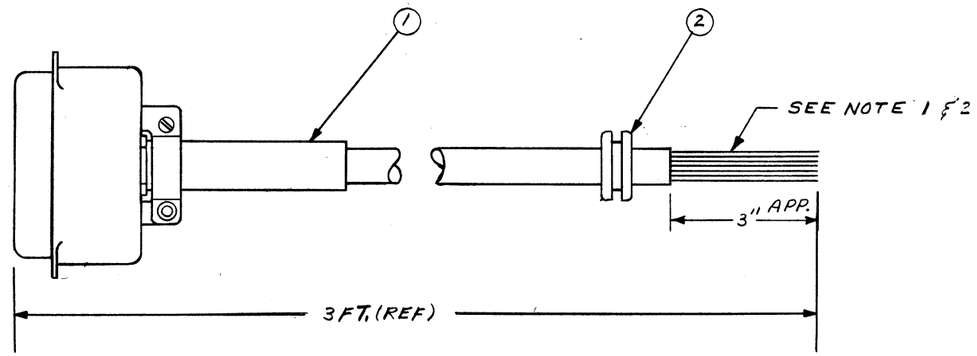
DR F.S.S. DATE 8-12-71
CHK DATE 10/26/71
APPD DATE 10/26/71

MODEL No. 514 | W.O. No. | SCALE | SHEET 1 OF 2

TITLE MARK SENSE CARD READER, SCHEMATIC LOGIBLOC

PART NUMBER	REV	SIZE	DRAWING NUMBER
	5	D	6125-1

REVISIONS



ASSEMBLY		CABLE	
SIGNAL	SEE DWG. 6125-1 FOR S.P.	WIRE NO.	PIN NO.
CH. GND.	—	1	1
+17	—	2	2
		3	3
-17V	—	4	4
		5	5
		6	6
		7	7
		8	8
		9	9
		10	10
KBL	—	11	11
		12	12
$\overline{GRY}$	—	13	13
		14	14
$\overline{CRI}$	—	15	15
		16	16
+5VR	—	17	17
±0V	—	18	18

ASSEMBLY		CABLE	
SIGNAL	SEE DWG. 6125-1 FOR S.P.	WIRE NO.	PIN NO.
		19	19
$\overline{KB_0}$	—	20	20
		21	21
$\overline{KB_1}$	—	22	22
		23	23
$\overline{KB_2}$	—	24	24
		25	25
$\overline{KB_3}$	—	26	26
		27	27
$\overline{KA_0}$	—	28	28
		29	29
$\overline{KA_1}$	—	30	30
		31	31
$\overline{KA_2}$	—	32	32
		33	33
$\overline{KA_3}$	—	34	34
		35	35
±0V	—	36	36

ITEM NO.	W.L. NO.	NAME	DESCRIPTION	QTY.
1	210-2636-3	CABLE ASS'Y TYPE 2	SEE DWG. CG482-2	1
2	254-1212	GROMMET	5/16 ID FOR 7/16 HOLE	1

NOTE:
1. ASSEMBLE ITEM NO. 2 TO ITEM NO. 1 PRIOR TO WIRING, STRIP OUTER INSULATION OF ITEM NO. 1 TO DIM. SHOWN
2. FOLD BACK ALL UNUSED WIRES AND TIE

SHEET 2 OF 2

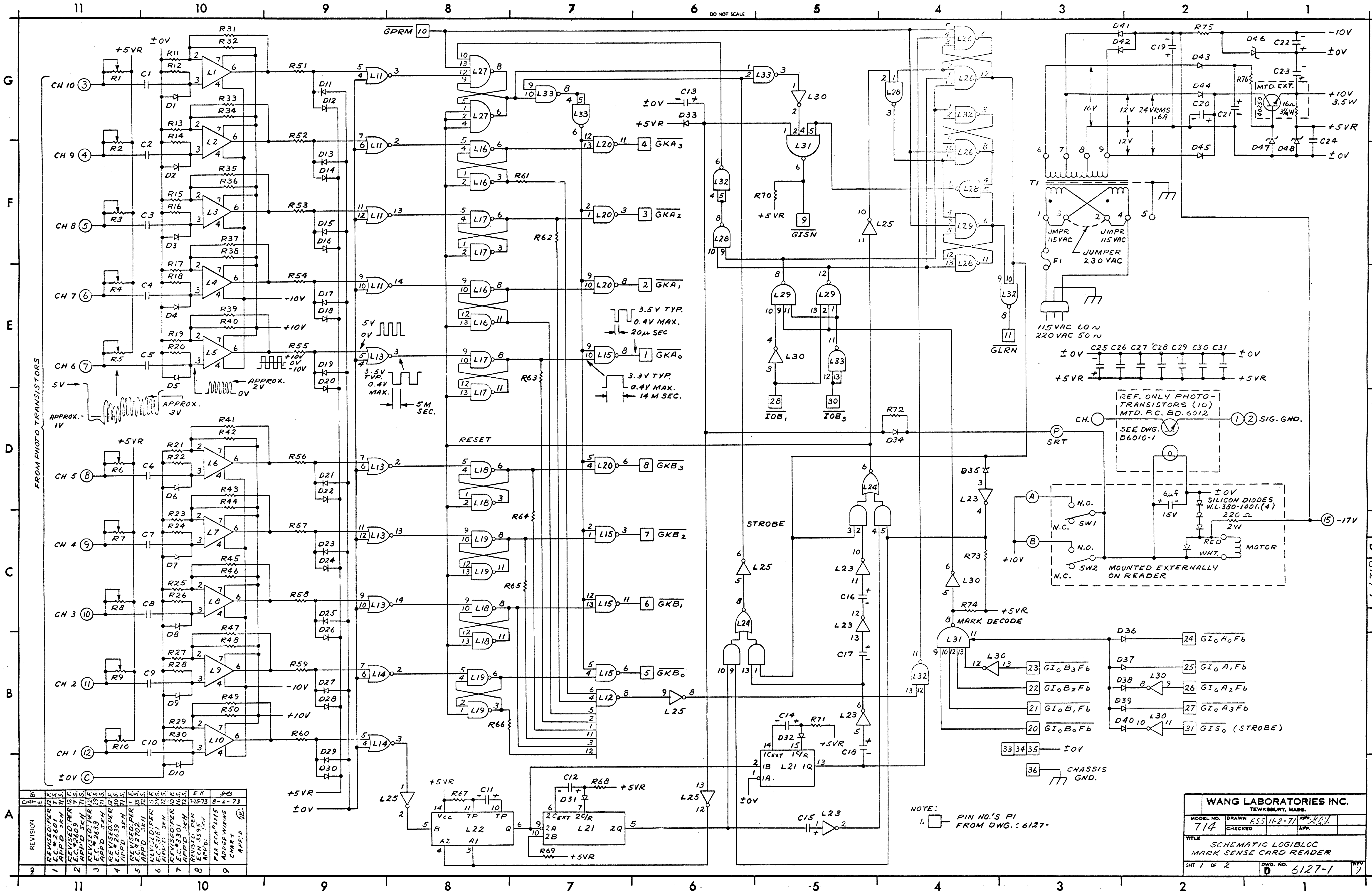
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
514	F.S.S.	10-20-71	W.L.	
	CHECKED		APP.	

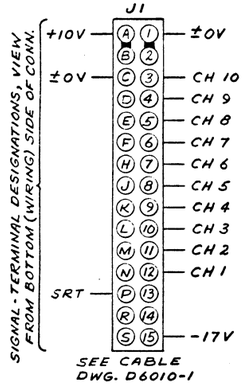
TITLE: MARK SENSE CARD READER INTERCONNECTING CABLE TO 500 CALC.

W.O. NO. | DWG. NO. C 6125-1 | REV. 5

1-52190 C ON SMQ



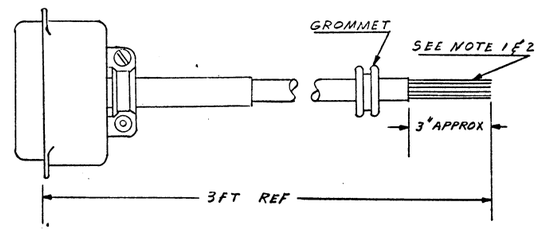
WANG LABORATORIES INC.
TEWKSBURY, MASS.
MODEL NO. 714
DRAWN F.S.S 11-2-71
TITLE SCHEMATIC LOGIBLOC MARK SENSE CARD READER
SHT 1 OF 2
DWG. NO. D 6127-1
NOTE:
1. PIN NO.'S PI FROM DWG. 6127-
FROM PHOTO TRANSISTORS
MOUNTED EXTERNALLY ON READER
REF. ONLY PHOTO-TRANSISTORS (10) MTD. P.C. BD. 6012
SEE DWG. D6010-1
SILICON DIODES W.L.380-1001.(4)
MOTOR
MARK DECODE
STROBE
RESET
JUMPER 230 VAC
JMPR 115 VAC
115 VAC 60 ~
220 VAC 50 ~
CHASSIS GND.
DO NOT SCALE
REVISION



COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
C1,2,3,4,5,6,7,8,9,10	.01µf 25V	300-1903	10
C11	1µf 100V	300-2290	1
C12	.0022µf 100V	300-2022	1
C13,23,24,25	10µf 15V	300-3006	4
C14,16,17	.0047µf 100V	300-2047	3
C15,18	.01µf 100V	300-2110	2
C19	500µf 25V	300-3021	1
C20	3000µf 15V	300-3015	1
C21	100µf 25V	300-3033	1
C22,26,27,28,29,30,31	.05µf 12V	300-1900	7
R1,2,3,4,5,6,7,8,9,10	1M HEL. POT.	336-1009	10
R11,13,15,17,19,21, 23,25,27,29	47K 1/4W	330-4047	10
R12,14,16,18,20,22, 24,26,28,30,31,32, 33,34,35,36,37,38, 39,40,41,42,43,44, 45,46,47,48,49,50	1M 1/4W	330-6010	30
R51,52,53,54,55,56, 57,58,59,60,72	10K 1/4W	330-4010	11
R61,62,63,64,65,66	2.7Ω 1/4W	330-3027	6
R67	18K 1/4W	330-4018	1
R68,71	39K 1/4W	330-4039	2
R69	5.6K 1/4W	330-3056	1
R70,74	4.7K 1/4W	330-3047	2
R73	1K 1/2W	331-3010	1
R75	120Ω 1/2W	331-2012	1
R76	220Ω 1W	332-2022	1

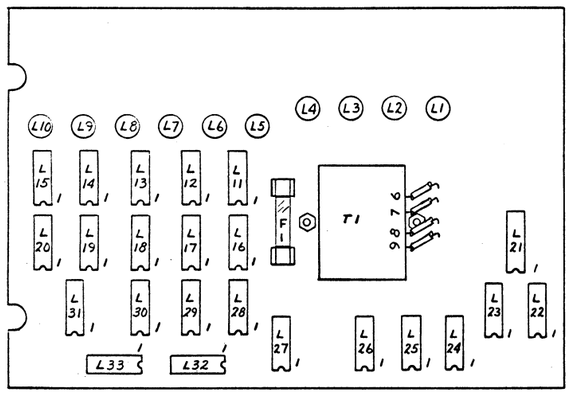
COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
D1,2,3,4,5,6,7,8,9,10, 11,12,13,14,15,16,17, 18,19,20,21,22,23,24, 25,26,27,28,29,30, 31,32,33,36,37,38,39,40	ADAM SIL.	380-1001	38
D33,34	GERM	380-0000	2
D41,42,43,44,45	EM403 REC.	380-4000	5
D46	IN758A 10V ZEN	380-2100	1
D47	IN4741 11V ZEN	380-2110	1
D48	IN4733A 5.1V ZEN	380-2052	1
T1	MMC 4234	410-0071	1
U1	225-21521-110	350-0011	1
F1	6/10 AMP	360-1006	1
F1-CLIP	100-200-4A-1	360-0002	2
TUBING	#14 PVC	605-0011	A/R
PWR. CABLE	3 COND. 6 FT.	420-1000	1
GROMMET	3/8 ID FOR 1/2 HOLE	654-1202	2
CABLE ASS'Y TYPE 2	CG4-82-2	220-2636-3	1

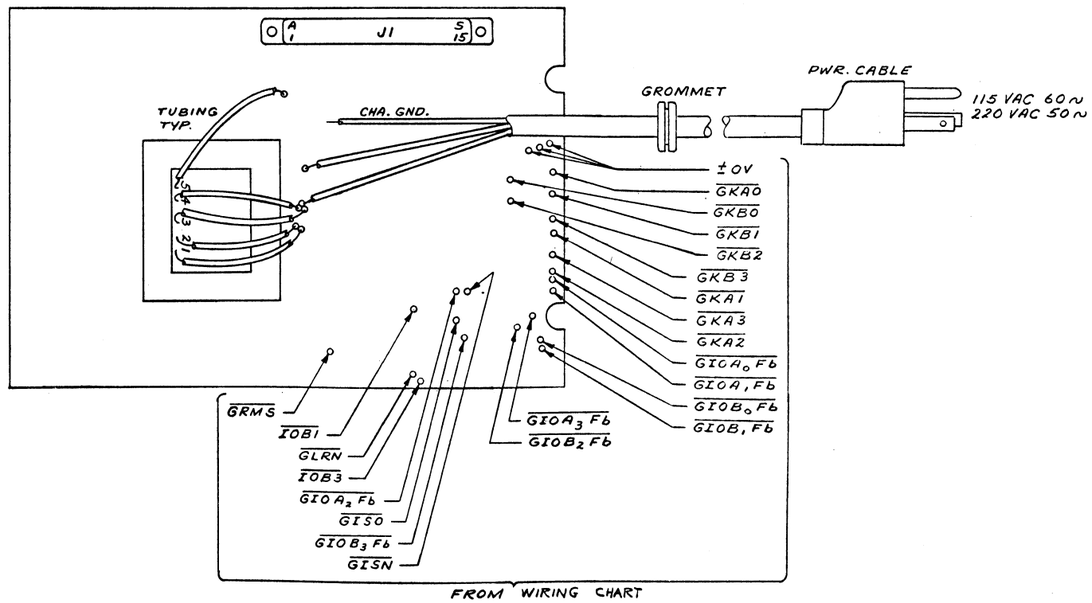
I.C. LOCATION	TYPE	W.L. NO.	TERM FOR -10V	TERM FOR VCC +5V	QTY.
L1,2,3,4,5,6,7,8,9,10	F741C	376-0074			10
L11,13,14	SP380A	376-0061	1	8	3
L12	SN7430N	376-0031	7	14	1
L15,20	F9946	376-0023	7	14	2
L16,17,18,19,28,32,33	SN7400N	376-0002	7	14	7
L21	SN74123N	376-0080	8	16	1
L22	SN7412IN	376-0051	7	14	1
L23	F9935	376-0025	7	14	1
L24	SN745IN	376-0012	7	14	1
L25,30	SN7404N	376-0010	7	14	2
L26,29	SN7410N	376-0003	7	14	2
L27	SN7420N	376-0004	7	14	1
L31	F9944	376-0024	7	14	1



NOTE:-
1. ASSEMBLE GROMMET TO CABLE PRIOR TO WIRING; STRIP OUTER INSULATION TO DIM. SHOWN.
2. FOLD BACK ALL UNUSED WIRES AND TIE.

COMPONENT LAYOUT FOR 6127





CABLE WIRING CHART

SIGNAL	WIRE NO. (REF)	PIN NO. (REF)	SIGNAL	WIRE NO. (REF)	PIN NO. (REF)
GKA0	1	1		19	19
GKA1	2	2	GIOB0	20	20
GKA2	3	3	GIOB1	21	21
GKA3	4	4	GIOB2	22	22
GKB0	5	5	GIOB3	23	23
GKB1	6	6	GIOA0	24	24
GKB2	7	7	GIOA1	25	25
GKB3	8	8	GIOA2	26	26
GISN	9	9	GIOA3	27	27
PRMS	10	10	IOB1	28	28
GLRN	11	11		29	29
	12	12	IOB3	30	30
	13	13	GIS0	31	31
	14	14		32	32
	15	15	-10V	33	33
	16	16	-10V	34	34
	17	17	-10V	35	35
	18	18	CH. GND.	36	36

NO	REVISION	BY	DATE

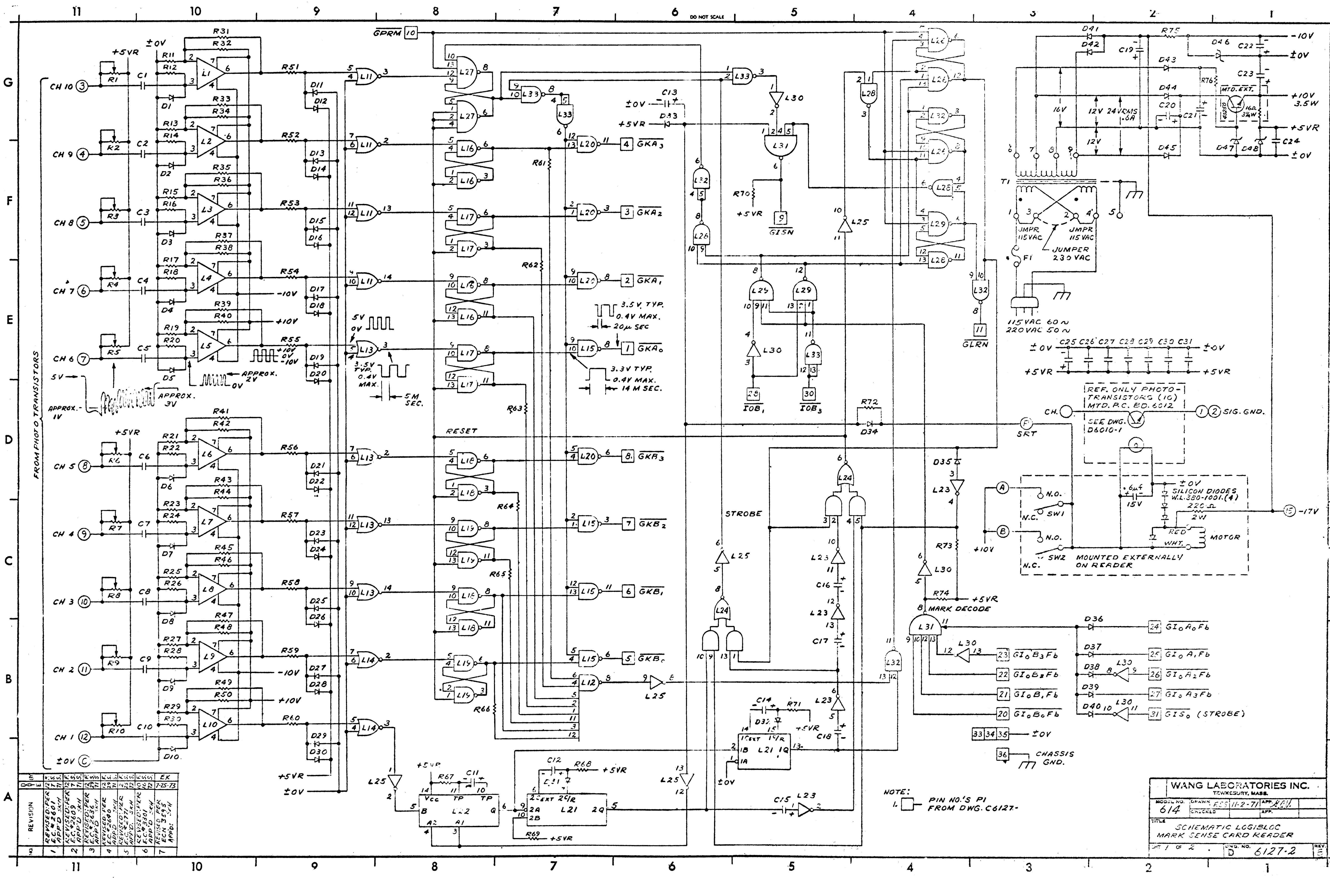
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.
714	F.S.S. 11-5-71	
	CHECKED	APP.

TITLE: SCHEMATIC LOGIBLOC MARK SENSE CARD READER

SHT 2 OF 2 | DWG. NO. D 6127-1 | REV. 3

D 6127-1



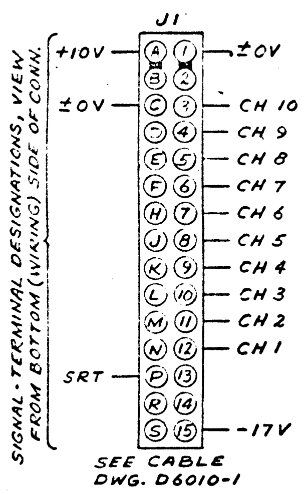
FROM PHOTO TRANSISTORS
CH 10
CH 9
CH 8
CH 7
CH 6
CH 5
CH 4
CH 3
CH 2
CH 1
±0V
+5VR
GPRM
RESET
STROBE
MARK DECODE
GKA3
GKA2
GKA1
GKA0
GKB3
GKB2
GKB1
GKB0
GISN
GLRN
IOB1
IOB3
GI0B3Fb
GI0B2Fb
GI0B1Fb
GI0B0Fb
GI0A0Fb
GI0A1Fb
GI0A2Fb
GI0A3Fb
GIS0 (STROBE)
CHASSIS GND.
SRT
SIG. GND.
REF. ONLY PHOTO-TRANSISTORS (10) MTD. P.C. BD. 6612
SEE DWG. D6010-1
SILICON DIODES W.L.380-1001.(4)
MOTOR
MOUNTED EXTERNALLY ON READER
115VAC 60~
220VAC 50~
JUMPER 230 VAC
JMPR 115VAC
-10V
+10V 3.5W
-17V
NOTE: 1. PIN NO.'S P1 FROM DWG. C6127-.
DO NOT SCALE
WANG LABORATORIES INC.
TEWKSBURY, MASS.
MODEL NO. 614
DRAWN FSS 11-2-71
SCHEMATIC LOGIBLOC MARK SENSE CARD READER
SHT 1 OF 2
DWG. NO. D 6127-2
REVISION

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
C1,2,3,4,5,6,7,8,9,10	.01µf 25V	300-1903	10
C11	1µf 100V	300-2290	1
C12	.0022µf 100V	300-2022	1
C13,23,24,25	10µf 15V	300-3006	4
C14,17	.0047µf 100V	300-2047	2
C15,16,18	.01µf 100V	300-2110	3
C19	500µf 25V	300-3021	1
C20	3000µf 15V	300-3015	1
C21	100µf 25V	300-3033	1
C22,26,27,28,29,30,31	.05µf 12V	300-1900	7
R1,2,3,4,5,6,7,8,9,10	1M HEL. POT.	336-1009	10
R11,13,15,17,19,21, 23,25,27,29	47K 1/4W	330-4047	10
R12,14,16,18,20,22, 24,26,28,30,31,32, 33,34,35,36,37,38, 39,40,41,42,43,44, 45,46,47,48,49,50	1M 1/4W	330-6010	30
R51,52,53,54,55,56, 57,58,59,60,72	10K 1/4W	330-4010	11
R61,62,63,64,65,66	2.7Ω 1/4W	330-3027	6
R67	12K 1/4W	330-4012	1
R68,71	39K 1/4W	330-4039	2
R69	5.6K 1/4W	330-3056	1
R70,74	4.7K 1/4W	330-3047	2
R73	1K 1/2W	331-3010	1
R75	120Ω 1/2W	331-2012	1
R76	220Ω 1W	332-2022	1

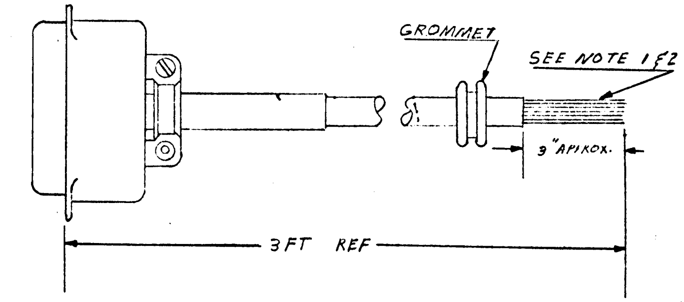
COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
D1,2,3,4,5,6,7,8,9,10, 11,12,13,14,15,16,17, 18,19,20,21,22,23,24, 25,26,27,28,29,30, 31,32,35,36,37,38,39,40	ADAM SIL.	380-1001	38
D33,34	GERM	380-0000	2
D41,42,43,44,45	EM403 REC.	380-4000	5
D46	IN758A 10V ZEN	380-2100	1
D47	IN4741 11V ZEN	380-2110	1
D48	IN4733A 5.1V ZEN	380-2052	1
T1	MMC4234	410-0071	1
J1	225-21521-110	350-0011	1
F1	6/10 AMP	360-1006	1
F1-CLIP	100-200-4A-1	360-0002	2
TUBING	#14 PVC	605-0011	A/R
PWR. CABLE	3 COND. 6FT.	420-1000	1
GROMMET	3/8 ID FOR 1/2 HOLE	654-1202	2
CABLE ASS'Y TYPE 2	C6482-2	220-2636-3	1

I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5V	QTY.
L1,2,3,4,5,6,7,8,9,10	F741C	376-0074			10
L11,13,14	SP380A	376-0061	1	8	3
L12	SN7430N	376-0031	7	14	1
L15,20	F9946	376-0023	7	14	2
L16,17,18,19,28,32,33	SN7400N	376-0002	7	14	7
L21	SN74123N	376-0080	8	16	1
L22	SN74121N	376-0051	7	14	1
L23	F9935	376-0025	7	14	1
L24	SN7451N	376-0012	7	14	1
L25,30	SN7404N	376-0010	7	14	2
L26,29	SN7410N	376-0003	7	14	2
L27	SN7420N	376-0004	7	14	1
L31	F9944	376-0024	7	14	1

NOTE:-
1. ASSEMBLE GROMMET TO CABLE PRIOR TO WIRING, STRIP OUTER INSULATION TO DIM. SHOWN
2. FOLD BACK ALL UNUSED WIRES AND TIE.



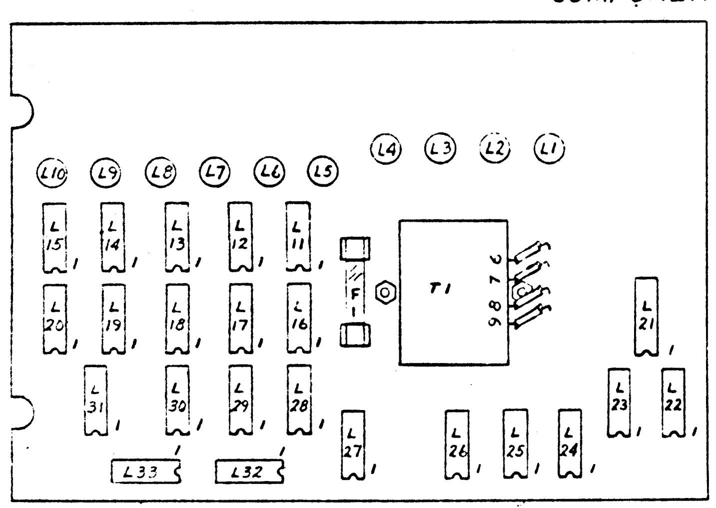
SEE CABLE DWG. D6010-1

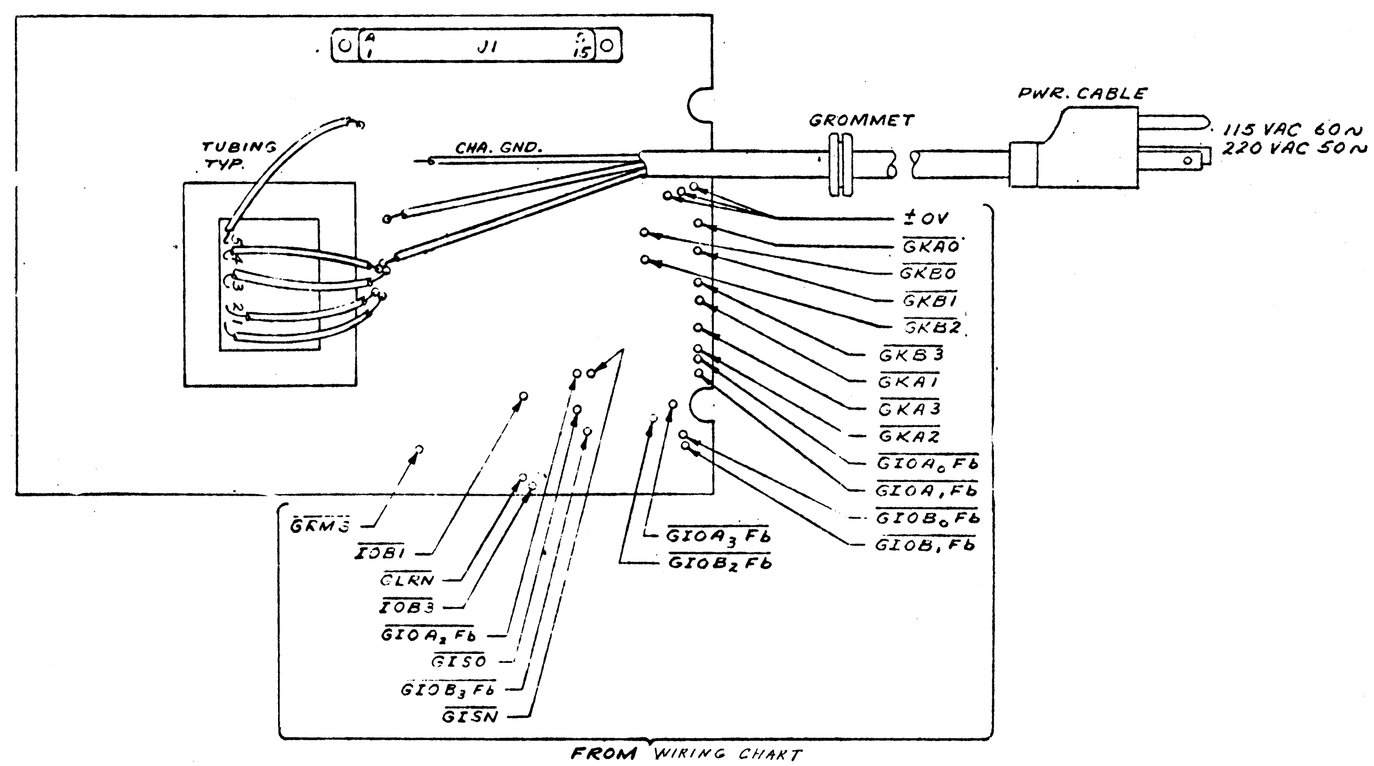


CABLE WIRING CHART

SIGNAL	WIRE NO. (REF)	PIN NO. (REF)	SIGNAL	WIRE NO. (REF)	PIN NO. (REF)
$\overline{GKA0}$	1	1		19	19
$\overline{GKA1}$	2	2	$\overline{GIOB0}$	20	20
$\overline{GKA2}$	3	3	$\overline{GIOB1}$	21	21
$\overline{GKA3}$	4	4	$\overline{GIOB2}$	22	22
$\overline{GKB0}$	5	5	$\overline{GIOB3}$	23	23
$\overline{GKB1}$	6	6	$\overline{GIOA0}$	24	24
$\overline{GKB2}$	7	7	$\overline{GIOA1}$	25	25
$\overline{GKB3}$	8	8	$\overline{GIOA2}$	26	26
$\overline{GISN}$	9	9	$\overline{GIOA3}$	27	27
$\overline{FKMS}$	10	10	$\overline{IOB1}$	28	28
$\overline{GLRN}$	11	11		29	29
	12	12	$\overline{IOB3}$	30	30
	13	13	$\overline{GISO}$	31	31
	14	14		32	32
	15	15	±0V	33	33
	16	16	±0V	34	34
	17	17	±0V	35	35
	18	18	CH. GND.	37	37

COMPONENT LAYOUT FOR 6127





BY	DATE	REVISION	NO
	6-1-73	PER ECN # 3715 ADDED WIRING CHART	B

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 614 | DRAWN 11-5-71 | APP. | CHECKED | APP.

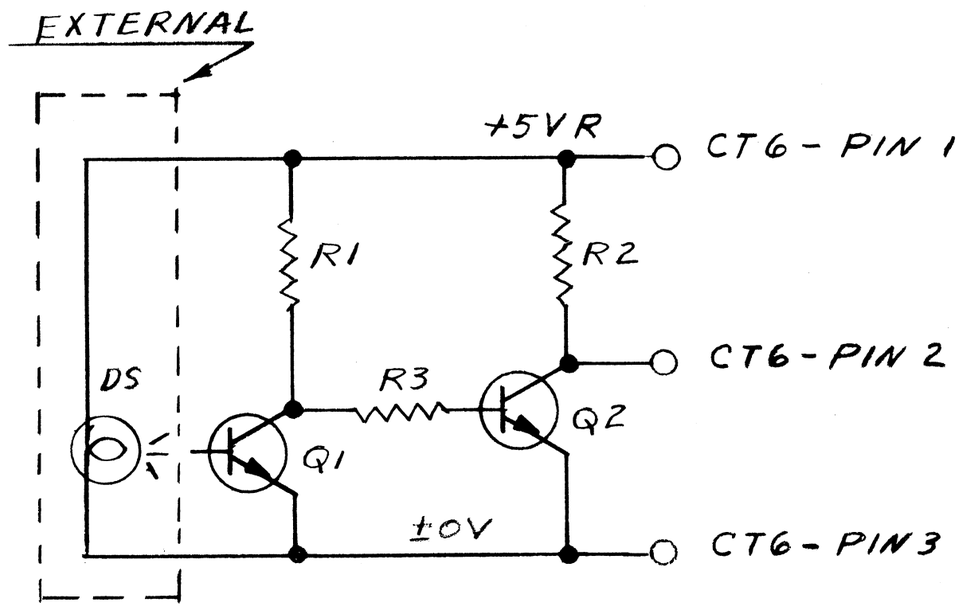
TITLE: SCHEMATIC LOGIBLOC MARK SENSE CARD READER

SHT 2 OF 2 | DWG. NO. D 6127-2 | REV B

D 6127-1

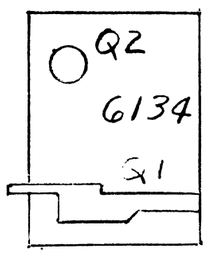
DO NOT SCALE

DO NOT SCALE



COMP.	SIZE/TYPE	WANG PART No.	QTY
R1	47K 1/4 W	330-4047	1
R2	4.7K 1/4 W	330-3047	1
Q1	GS563	375-2100	1
Q2	2N3014	375-0017	1
DS	#9 LAMP	370-0015	1
R3	10Ω 1/4W	330-1010	1

REV. 1 JG 2-12-73
PER ECN 3509 R3 WAS 47K APP'D SRH

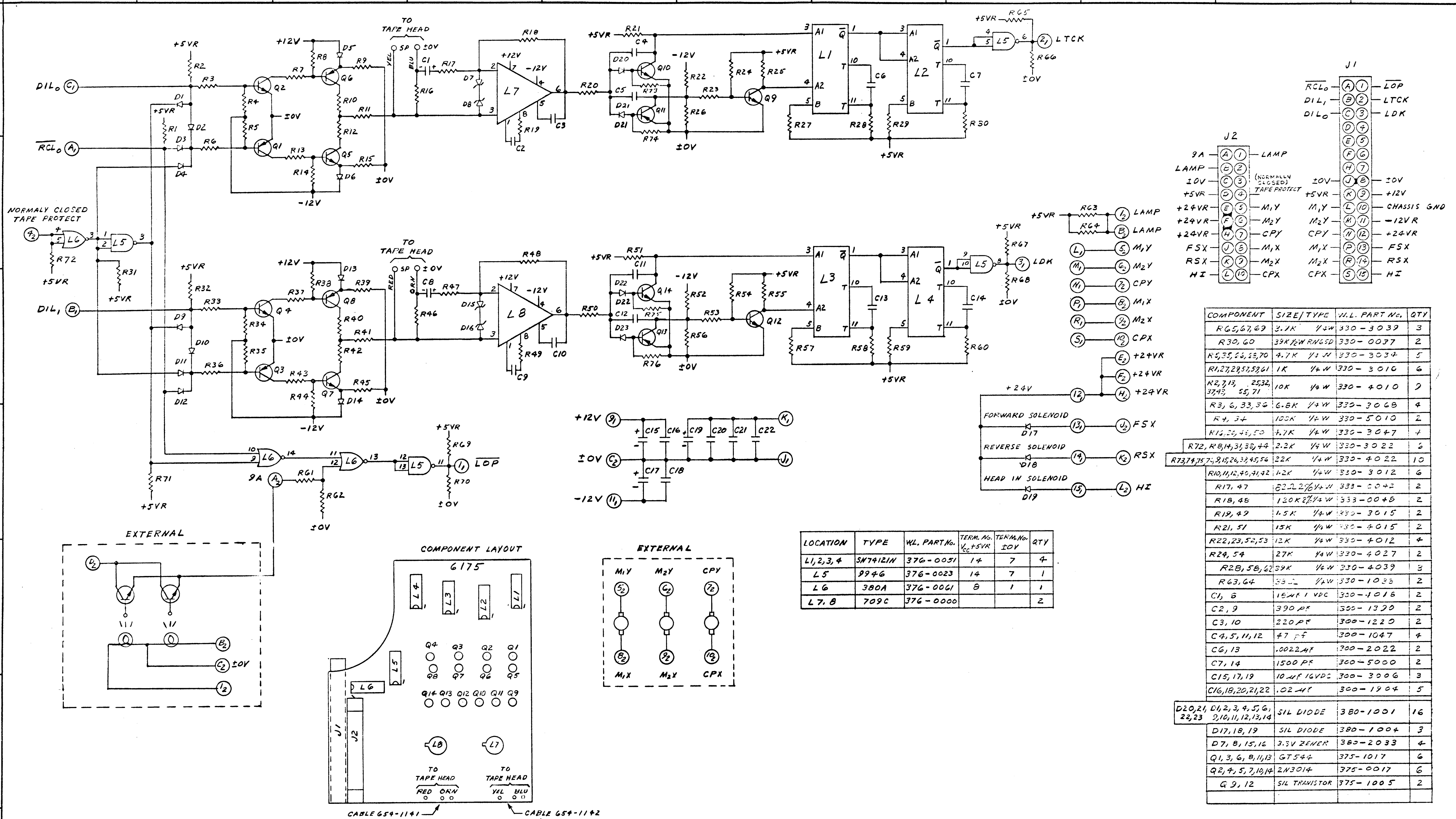


WANG LABORATORIES, INC.
TEWKSBURY, MASS. U. S. A.

MODEL NO.	DRAWN JB	9/20/71	APPD	
	CHECKED		APPD	12/3/71

TITLE SCHEMATIC, PHOTO-PICKUP AND #6134 AMPLIFIER FOR 702 PRINTER/PUNCHER

W.O. NO.	SCALE 4/1	DWG. NO. A 6134-1	REV 1



COMPONENT	SIZE/TYPE	W.L. PART No.	QTY
R65,67,69	3.7K 1/4W	330-3039	3
R30,60	39K 1/2W RN65D	330-0037	2
R5,35,66,68,70	4.7K 1/4W	330-3034	5
R1,27,29,57,59,61	1K 1/4W	330-3010	6
R2,7,13, 25,32, 37,43, 55,71	10K 1/4W	330-4010	9
R3,6,33,36	6.8K 1/4W	330-3068	4
R4,34	100K 1/4W	330-5010	2
R16,20,46,50	4.7K 1/4W	330-3047	4
R72, R8,14,31,38,44	2.2K 1/4W	330-3022	6
R73,74,75,76,9,15,26,39,45,56	22K 1/4W	330-4022	10
R10,11,12,40,41,42	1.2K 1/4W	330-3012	6
R17,47	82Ω 2% 1/4W	333-0042	2
R18,48	120K 2% 1/4W	333-0048	2
R19,49	1.5K 1/4W	330-3015	2
R21,51	15K 1/4W	330-4015	2
R22,23,52,53	12K 1/4W	330-4012	4
R24,54	27K 1/4W	330-4027	2
R28,58,62	39K 1/4W	330-4039	3
R63,64	33Ω 1/4W	330-1033	2
C1,6	15μF 1 VDC	330-1016	2
C2,9	390 pF	300-1390	2
C3,10	220 pF	300-1220	2
C4,5,11,12	47 pf	300-1047	4
C6,13	.0022μF	300-2022	2
C7,14	1500 PF	300-5000	2
C15,17,19	10 μF 16VDC	300-3006	3
C16,18,20,21,22	.02 μF	300-1904	5
D20,21,22,23, D1,2,3,4,5,6,9,10,11,12,13,14	SIL DIODE	380-1001	16
D17,18,19	SIL DIODE	380-1004	3
D7,8,15,16	3.3V ZENER	380-2033	4
Q1,3,6,8,11,13	GT544	375-1017	6
Q2,4,5,7,10,14	2N3014	375-0017	6
Q9,12	SIL TRANISTOR	375-1005	2

LOCATION	TYPE	W.L. PART No.	TERM. No. V_{cc} +5VR	TERM. No. ±0V	QTY
L1,2,3,4	SN74121N	376-0051	14	7	4
L5	9946	376-0023	14	7	1
L6	380A	376-0061	8	1	1
L7,8	709C	376-0000			2

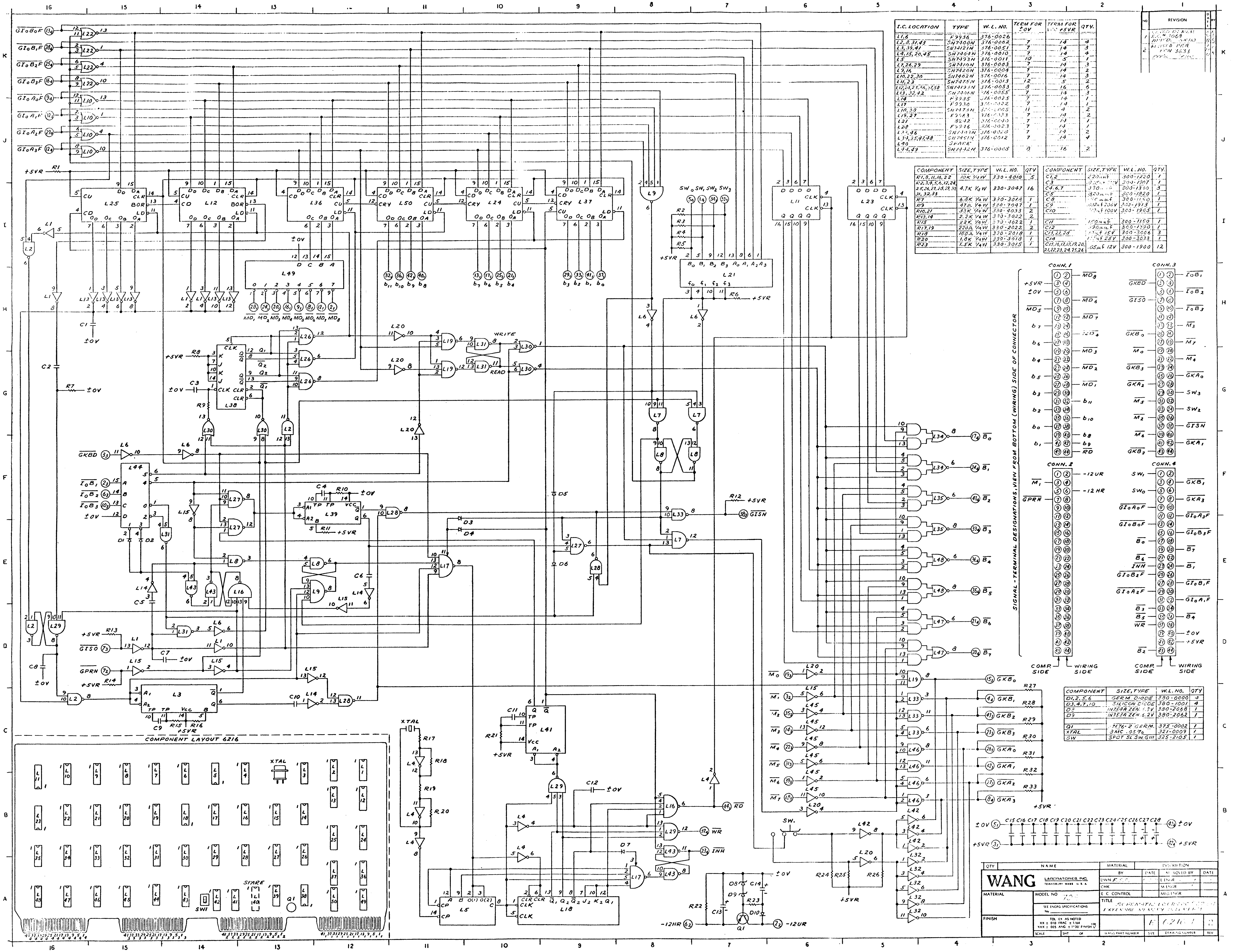
NO.	DATE	BY	REVISION
1	6-30-72	BB	PER ECN 3070 TAPE PROTECT WAS ON (22) ADDED CIRCUIT L6-PINS 3,4,5 AND 2.2K RESISTOR. APP'D SKH
2	7-6-72	F.S.S.	REVISED: PER E.C.#3080 APP'D. SKH
3	7-7-72	F.S.S.	REVISED: PER E.C.#3088 APP'D. SKH
4	7-25-72		REVISED: PER E.C.N #3092 APP'D SKH
5	7/27/72	BB	REVISIED: PER E.C.N. #3098 APP'D SKH
6	8-10-72	BB	PER ECN 3131 Q10,14 WAS SIL TRANSISTOR APP'D SKH
7	8-28-72	BB	PER ECN #3182 DELETED KEY BETWEEN PINS 1&2 ON J1 APP'D SKH
8	8-30-72	BB	PER ECN #3183 ADDED R73,74,75,76 APP'D SKH
9	9-27-72	BB	PER ECN #3249 C1,C8 WAS 25μF 16V APP'D SKH
10	9-30-72	BB	PER ECN #3268 R20,50 WAS 10K APP'D SKH

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
1200	BB	12/3/71		3/17/72
	CHECKED		APP.	

TITLE: SCHEMATIC, LOGIBLOC # 6175 LEFT & RIGHT TAPE DECK

SHT OF — DWG. NO. D 6175-1 — REV. 10



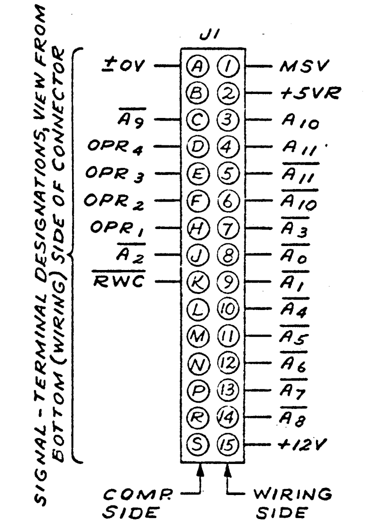
I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±OV	TERM FOR VCC +5VR	QTY.
L1,6	F9936	376-0026			
L2,8,31,43	SN7400N	376-0002	7	14	4
L3,39,41	SN74121N	376-0051	7	14	3
L4,15,20,45	SN7404N	376-0010	7	14	4
L5	SN7493N	376-0011	10	5	1
L7,26,29	SN7410N	376-0003	7	14	3
L9,16	SN7420N	376-0004	7	14	2
L10,22,30	SN7402N	376-0016	7	14	3
L11,23	SN7475N	376-0013	12	5	2
L12,24,25,36,37,50	SN74193N	376-0053	8	16	6
L13,32,42	SN7406N	376-0055	7	14	3
L14	F9935	376-0025	7	14	1
L17	F9930	376-0022	7	14	1
L18,38	SN74173N	376-0005	11	4	2
L19,27	F9963	376-0033	7	14	2
L21	8242	376-0040	7	14	1
L28	F9916	376-0023	7	14	1
L33,46	SN7403N	376-0028	7	14	2
L34,35,47,48	SN7451N	376-0012	7	14	4
L40	SPARE				
L44,49	SN74142N	376-0008	8	16	2

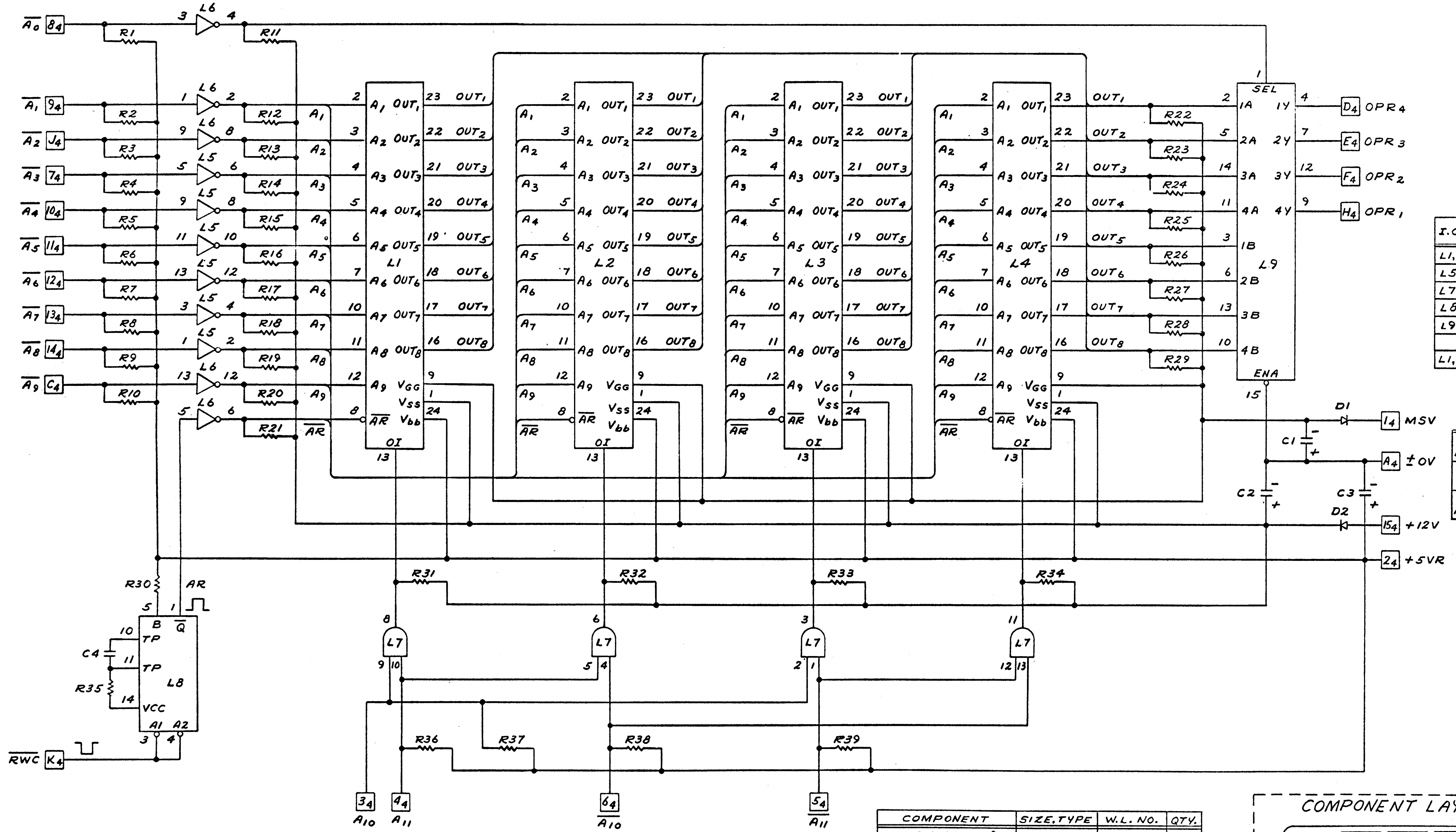
COMPONENT	SIZE, TYPE	W.L. NO.	QTY
R1,8,11,16,22	10K 1/4W	330-4010	5
R2,3,4,5,6,12,24,25,26,27,28,29,30,31,32,33	4.7K 1/4W	330-3047	16
R7	6.8K 1/4W	330-3068	1
R9	47Ω 1/4W	330-7047	1
R10,21	33K 1/4W	330-4033	2
R13,14	2.2K 1/4W	330-3022	2
R15	22K 1/4W	330-4022	1
R17,19	220Ω 1/4W	330-2022	2
R18	180Ω 1/4W	330-2018	1
R20	1.8K 1/4W	330-3018	1
R23	1.5K 1/4W	330-3015	1

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
C1,2	220μμf	300-1220	1
C3	[illegible]	300-1907	1
C4,6,7	330μμf	300-1330	3
C5	820μμf	300-1820	1
C8	[illegible]μμf	300-1150	1
C9	.002μf 200V	300-1913	1
C10	[illegible]μf 100V	300-1905	1
C11	150μμf	300-1150	1
C12	390μμf	300-1390	1
C13,27,28	[illegible]μf 15V	300-3006	3
C14	[illegible]μf 25V	300-3033	1
C15,16,17,18,19,20,21,22,23,24,25,26	.05μf 12V	300-1900	12

COMPONENT	SIZE, TYPE	W.L. NO.	QTY
D1,2,5,6	GERM. DIODE	380-0000	4
D3,4,7,10	SILICON DIODE	380-1001	4
D8	IN754A ZEN. 6.8V	380-2068	1
D9	IN753A ZEN. 6.2V	380-2062	1
Q1	7676-2 GERM.	375-0002	1
XTAL	3MC .05%	321-0009	1
SW	SPDT SL.SW.GIII	325-2105	1

QTY	NAME	MATERIAL	DESCRIPTION		
WANG LABORATORIES, INC. TEWKSBURY MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
		DWN F.S.C.		E ENGR	
		CHK		M ENGR	
MATERIAL	MODEL NO [illegible]	E C CONTROL		MFG ENGR	
	SEE ENGRG SPECIFICATIONS No	TITLE [illegible]			
FINISH	TOL EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH 125√		E	6216-1	[illegible]
	SCALE / SHT OF	WANG PART NUMBER	SIZE	DRAWING NUMBER	REV





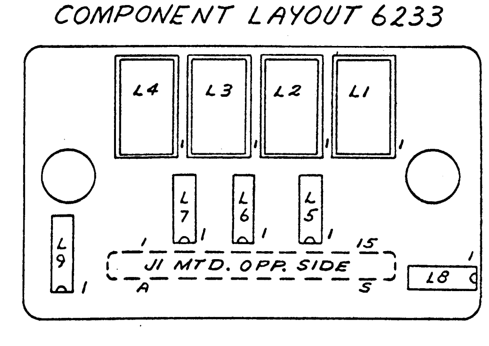
I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1,2,3,4	SEE CHART				
L5,6	SN7406N	376-0055	7	14	2
L7	SN7408N	376-0081	7	14	1
L8	SN74121N	376-0051	7	14	1
L9	SN74157N	376-0082	8	16	1
L1,2,3,4	24 PIN SOC.	376-9003			4

I.C. ROM LOADING CHART

	L1	L2	L3	L4	QTY
600 FORM.PKG.	EMPTY	I.C. 40123 377-0023	I.C. 40124 377-0024	I.C. 40125 377-0025	3
600 STAT.	EMPTY	EMPTY	EMPTY	I.C. 40129 377-0029	1
600 ADV. STAT.	I.C. 40126 377-0026	I.C. 40127 377-0027	I.C. 40128 377-0028	I.C. 40129 377-0029	4

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1,2,3,4,5,6,7,8,9,10, 30,36,37,38,39	10K ¼W	330-4010	15
R11,12,13,14,15,16,17,18, 19,20,21,22,23,24,25,26, 27,28,29,31,32,33,34,35	6.8K ¼W	330-3068	24
C1,2,3	1μf 35V TANT.	300-4000	3
C4	220μμf MICA	300-5004	1
D1,2	DIODE SIL.	380-1001	2

COMPONENT LAYOUT 6233



NO.	REVISION	DATE	BY
1	IN "600 STAT. LOADING" "L1 WAS IC 40129/ 377-0029" AND "L4 WAS EMPTY."	4-23-73	F.S.
2	PER ECN #3850 C4 WAS 100 PF APP'D SKH	11-1-73	JB

WANG LABORATORIES INC.
TEWKSBURY, MASS.

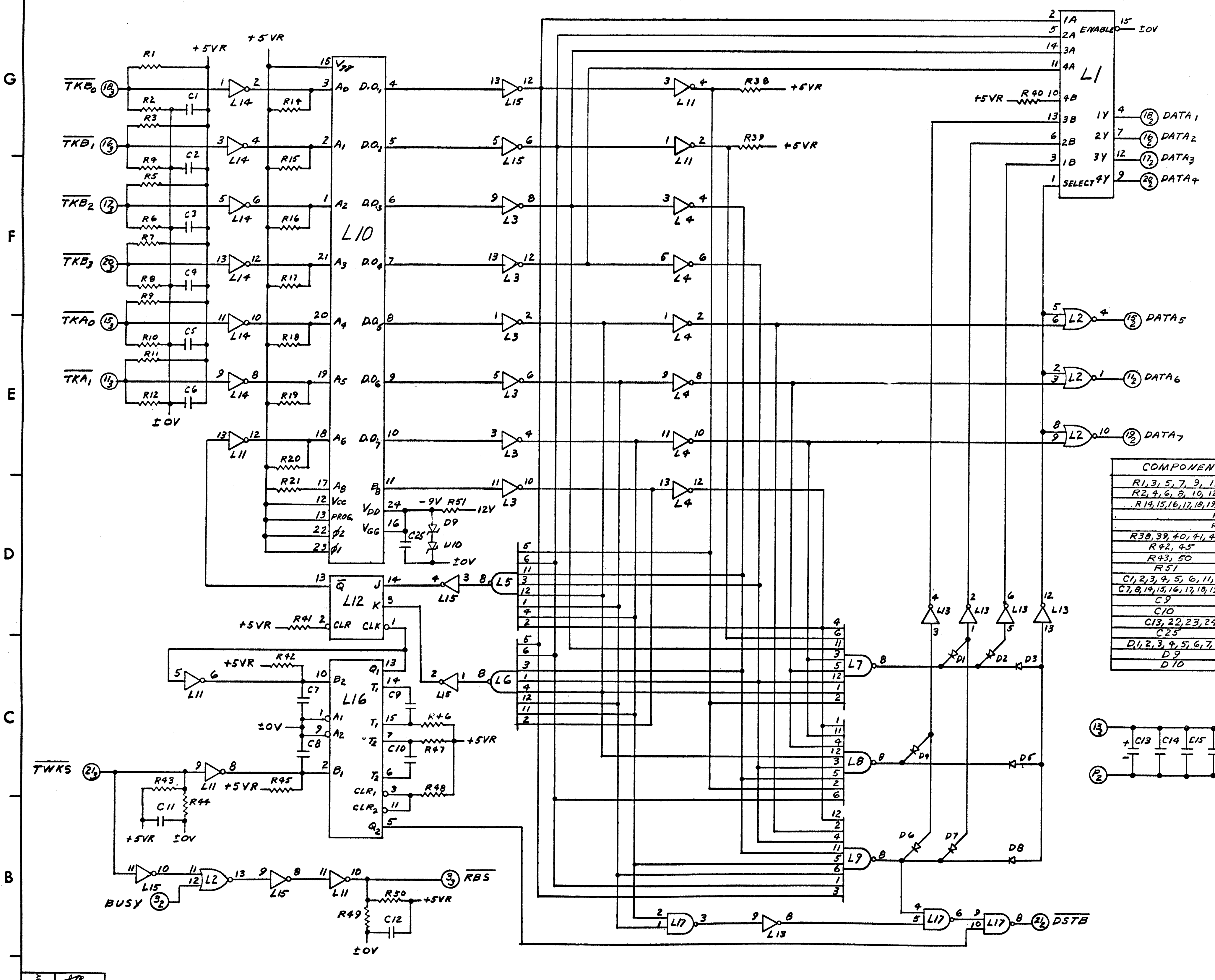
MODEL NO.	DRAWN		APP.	
600	F.S.S.	9-22-72	SKHo	1/23/73
	CHECKED		APP.	

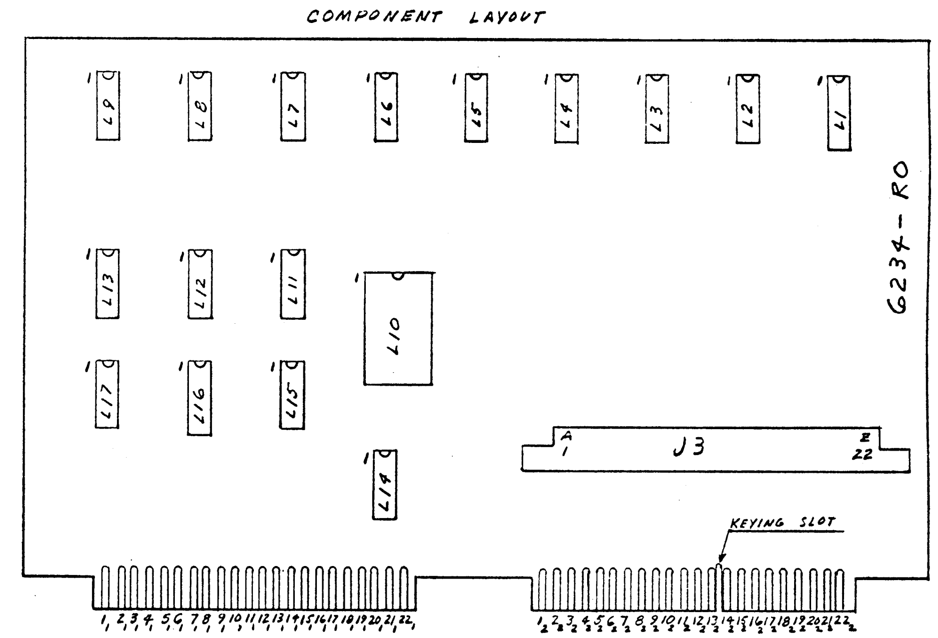
TITLE: SCHEMATIC LOGIBLOC # 6233 USERS ROM (E.A. ROM)

SHT 1 OF 1 — DWG. NO. D 6233-1 — REV. 2

D 6233-1

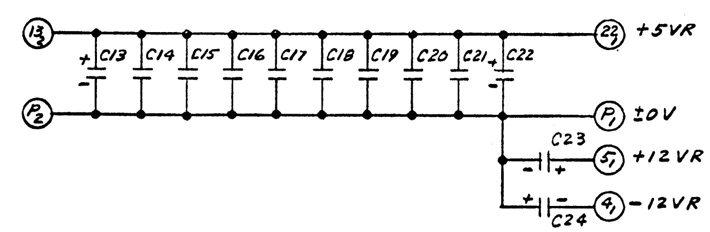
DO NOT SCALE

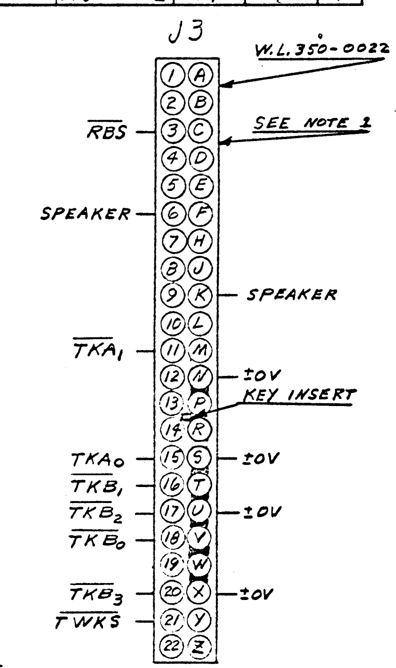




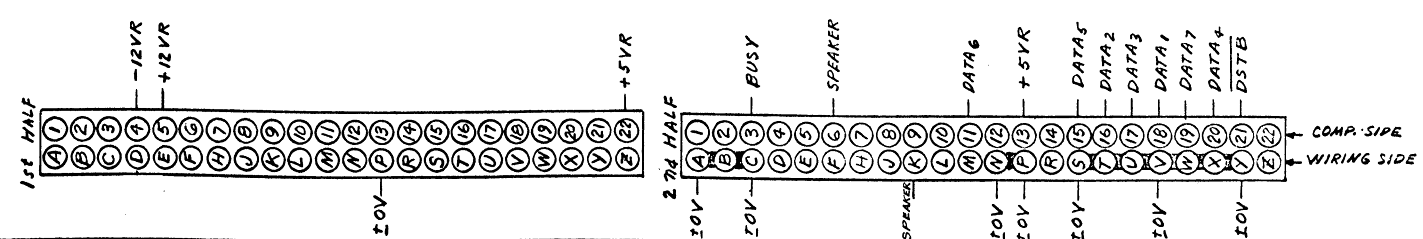
COMPONENT	SIZE/TYPE	W.L. PART No.	QTY
R1, 3, 5, 7, 9, 11	180Ω 1/4W	330-2010	6
R2, 4, 6, 8, 10, 12	220Ω 1/4W	330-2022	6
R14, 15, 16, 17, 18, 19, 20, 21	4.7K 1/4W	330-3047	8
R44, 49	2.2K 1/4W	330-3022	2
R46, 47	10K 1/4W	330-4010	2
R38, 39, 40, 41, 48	1K 1/4W	330-3010	5
R42, 45	560Ω 1/4W	330-2056	2
R43, 50	1.8K 1/4W	330-3018	2
R51	33Ω 1W	332-1033	1
C1, 2, 3, 4, 5, 6, 11, 12	.1 μf	300-1901	8
C7, 8, 14, 15, 16, 17, 18, 19, 20, 21	.01 μf	300-1903	10
C9	.001 μf	300-1906	1
C10	220 pf	300-1220	1
C13, 22, 23, 24	10 μf 16VDC	300-3006	4
C25	.05 μf	300-1900	1
D1, 2, 3, 4, 5, 6, 7, 8	SIL DIODE	380-1001	8
D9	1N4733A 5.1V	380-2052	1
D10	1N748A 3.9V	380-2039	1

LOCATION	TYPE	W.L. PART No.	TERM. No. Vcc +5VO	TERM. No. ±OV	QTY
L1	SN74157N	376-0082	16	8	1
L2	SN7402N	376-0016	14	7	1
L3, 4, 15	SN7404N	376-0010	14	7	3
L5, 6, 7, 8, 9	SN7430N	376-0031	14	7	5
L10	1702	377-0009	—	—	1
L11	SN7406N	376-0055	14	7	1
L12	SN7473N	376-0005	4	11	1
L13	9935	376-0025	14	7	1
L14	SN7407N	376-0056	14	7	1
L16	SN74123N	376-0080	16	8	1
L17	SN7400N	376-0002	14	7	1





NOTE:
1. J3 PINS ARE RENUMBERED TO MATCH CENTRONICS'S CONNECTOR



REVISION		
NO.	1	
	PER ECN #3547 L10 WAS ZA7437 AND CKT CHANGES APP'D SKH	
DATE	5-9-72	
BY	[illegible]	

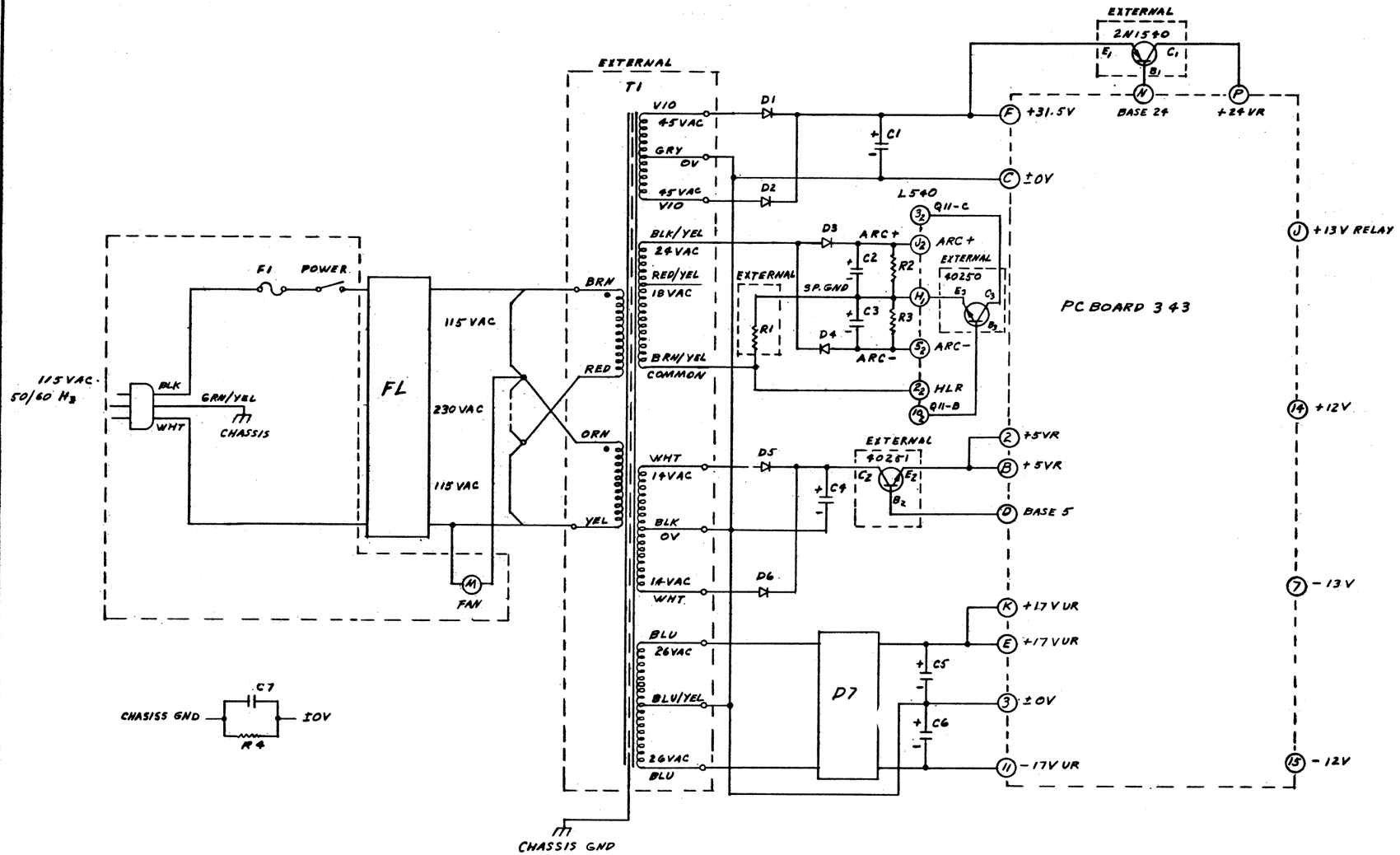
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	CHECKED	APP.
700	5-3-72		

TITLE: SCHEMATIC LOGIBLOC #6234 LINE PRINTER INTERFACE

SHT OF — D — DWG. NO. 6234-1 — REV.

DO NOT SCALE



PC BOARD 343

COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY
R1	10Ω 10W	333-0046	1
R2,3	1K 2W	337-3010	2
R4	10K ¼W	330-5010	1
C1	2600MF 50V	300-3040	1
C2,3,5,6	1000MF 50V	300-3055	4
C4	6000MF 20V	300-3019	1
C7	.47MF 100V	300-2247	1
D1,2,5,6	A15	380-3004	4
D3,4	EM403	380-4000	2
D7	MDA970-1	380-4003	1
D8	DIODE GBR.	380-0000	1
T1	TRANSFORMER	410-0073	1
FL	LINE FILTER	410-2002	1
F1	2A	360-1020	1

SHEET	SIZE	REV.
1 OF 8	D	5
2 OF 8	D	6
3 OF 8	C	6
4 OF 8	C	6
5 OF 8	C	6
6 OF 8	D	2
7 OF 8	B	4
8 OF 8	C	6

NO.	REVISION	DATE	BY
1	PER ECN 3063 FUSE BEFORE SWITCH APP: SKH	6/27/72	RB
4	PER ECN #3488 REMOVED CH.GND FROM LINE FILTER APP'D SKH	1-31-72	RB
5	PER ECN #3715 8/2/73 APP: D	8-7-73	

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 709 | DRAWN DD 5/20/72 APP. SKH 6/7/72 | CHECKED KJ 6/7/72 APP.

TITLE SCHEMATIC 6235
POWER SUPPLY AND MOTHER BOARD

SHT 1 OF 8 | DWG. NO. D 6235-1 | REV. 5

D 6235-1

DO NOT SCALE

2nd HALF

REAR PANEL

L540-10₂ Q11-B

L540-3₂ Q11-C

Q11

#24 BUSS

R1

L540-2₂ HLR

L540-H, SP GND

343

L540

MXE
+5VR
±0V
MXI
MXG
Q11-B
M₂R
ARC+
M₁R
M₁L
ARC−
M₂L
Q11-C
HLR
MXA
MXF

L542

+5VR
±0V
MXB
MXD
RBK
−13V
SP GND
MXI
+13V
RIGHT
MXF
FOR
MTONC
MXH
MXG
MXC
MXJ
MXA
MXE

L537

+5VR
±0V
CTDWL
CTUPL
B₃F
B₂F
B₀F
B₁F
CTUPR
CTDWR
P₃
A₁F

L536

GOS
+5VR
±0V
GOS
GOSD
WL I
REBL
LAP
RCL₀
RCR₀
DIL₁
DIR₁
DIL₀
RL II
WL II
RL I
DK I II
RPROT
L PROT
WTST
DK II
DK I

L541

+5VR
±0V
GKA₁
GKA₂
GKB₁
GKB₀
GKB₂
DK I
DK II
LDK
LTCK
RTCK
RDK
ZDL
GKA₀
GKA₃
GKB₃
PERD
P₄
GOS
WT
DK I II

L538

+5VR
±0V
MTONC
FOR
A=BP
GISO
DL₁₃
HIRC
HILC
REBL
PRR I
PRF I
PRR II
PRF II
MTONC
P₄
RBK
RIGHT
OPQ
WEBL
WEBL
WMON

L534

+5VR
±0V
ERROR
ERW
WMON
MER II
BCCL
MERD
BLCKD
ZDROP
P₂
GOS
WEBL
HKP₄
MERI
DK I
PER I
PERD
DK II
PER II
RDST
LPS
ZDL
RD
WT

L535

+5VR
±0V
BCCL
GPRM
OPQP
REWDC
RRTB
I₀B₃
I₀B₂
I₀B₁
HKP₄
BCCL
GOS
QPQ
DK I
LOP
DK II
ROP
GISO
REWD
RRTB
DGISO
AGISO

2nd HALF

1st HALF

−12V
+12V
−17VR
−13V
±0V
+5VR
+24V
BASE 24
+17VR
+13V
+31.5VR
+17VR
BASE 5
±0V
+5VR

MXB
MXD
MXH
SP GND
MXC
MXJ
+13V
±0V
+5VR
−13V

RSR
FSR
FSL
RSL
HIRS
HILS
+24V
PRF II
PRF I
PRR II
PRR I
HIRC
HILC
MTONC
±0V
+5VR

CLRLB
DK II
CLRRB
A=B
A<B
A>B
A₃F
P₂
A₂F
A₀F
±0V
+5VR

WT
GOS
ZDROP
WEBL
DGISO
PIR₀
A₃F
RFP
B₃F
B₂F
A₂F
B₁F
A₁F
B₀F
±0V
A₀F
+5VR

BLCK
GISN
MERD
P₁₂₃
DL₁₃
ERROR
WEBL
RDST
GOSD
WTST
REBL
LPS
LWTP
LROP
GPRM
BCCL
HKP₄
±0V
+5VR

BCCL
DK II
ZDL
DK I
A<B
ERW
RD
RRTB
A=B
BLCKD
R₅C
REBL
CLRRB
ZDROP
GOS
CTDWR
CTUPL
CTDWL
GPRM
CLRLB
CTUPR
REWD
BLCK
±0V
+5VR
HKP₄

REBL
P₂
P₄
GPRM
AGISO
B₁F
P₁₂₃
A₀F
A₁F
B₂F
OPQ
RRTB
A₂F
P₃
P₁
WTST
DL₁₃
P₄
B₀F
B₃F
A₃F
P₁₂₃
A=B
±0V
+5VR
A=BP

A₀F
GI₀A₀F
A₂F
GI₀A₂F
A₃F
GI₀A₃F
B₃F
GI₀B₃F
B₀F
GI₀B₀F
GI₀B₂F
CRS₂II
CRS,II
DK I II
GI₀A,F
A,F
CRS₁I
CRS₂I
B,F
GI₀B,F
CRS₃I
CRS₀I
CRS₀II
CRS₃II
B₂F
±0V
+5VR

1st HALF

P1

P2

CG235-1 SHT. 3

DG235-1 SHT. 6

CG235-1 SHT. 7

CG235-1 SHT. 4

CG235-1 SHT. 8

WIRE AND PREP PER CG235-1 SHT. 5

I/O CABLE (REF) 22-[illegible]636-6

CH. GND 26VAC +24V +12V −12V +5V 10V

C4 C1 C7 C6 C5 D7 C2 C3

BRN RED ORN YEL FL

M,L M₂R M,L HILS FSL FSR LTCK LDK HIRS DIL, RCR₀ RCL₀ DIR, DIL₀ DIR₀ RDK RTCK LOP ROP

RSL RSR M,R

1A 15S

343 L540 L542 L537 L536 L541 L538 L534 L535

1st HALF

2nd HALF

6235-R0

GRN WHT BLK WHT VIO GRAY VIO BLU BLU/YEL BLU BLK/YEL RED/YEL BRN/YEL C₁ B₁ E₁ E₂ B₂ C₂

12 150

GKB₀ GKB₁ GKA₀ GKA₃ GI₀B₂F GI₀A₂F I₀B₁ GPRM GI₀B₂F

GKB₂ GKA₂ GKA₁ GKB₃ GISN GI₀A₀F GISO GI₀B₀F GI₀B₃F GI₀A₃F I₀B₃ GI₀A,F

COMP	SIZE/TYPE	W.L NO.	QTY
DB	GERM. DIODE	380-0000	1

NO	REVISION	BY	DATE
2	PER ECN 3099 ADDED DIODE APP: D SKH		9-7-72
3	REVISED PER ECN 3236 APP: D SKH		10-1-72
5	REVISED PER ECN 3498 APP: D SKH		1-1-73
6	REVISED WITH CONFORMITY APP: D		8-1-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

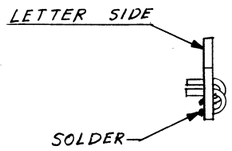
MODEL NO. 709 | DRAWN | CHECKED | APP. | APP. | 6-7-72

TITLE: POWER SUPPLY AND MOTHER BOARD

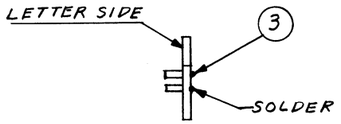
SHT 2 OF 8 | DWG. NO. D 6235-1 | REV. 6

D 6235-1

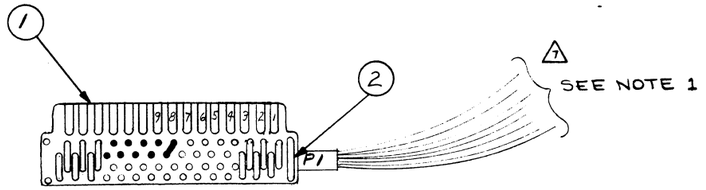
REVISIONS
7 REV. PER RFA 0394 LET 9-17-73



#26 WIRE



#24 WIRE



SIGNAL	FROM P.C. 6235	WIRE COLOR	WIRE SIZE	TO 5223 PIN No.	W.L. PART No.	LENGTH
$\overline{RCR_0}$	L536-6_2	GRY/BRN	#26	A	600-3081	23"
DIR_1	L536-2_2	GRY/RED	#26	B	600-3082	24"
DIR_0	L536-L_1	GRY/ORN	#26	C	600-3083	24"
				D		
				E		
				F		
				H		
±0V	343-C	BLACK	#22	J & 8	600-1000	20"
+5VR	343-B	RED	#24	K	600-2002	20"
24VAC	6235	YELLOW	#24	L, M & N	600-2004	18"
24VAC	—	BUSS	#24	M	600-9007	—
24VAC	—	BUSS	#24	N	600-9007	—
MIR	L540-7_2	GRY/YEL	#26	P	600-3084	20"
M_2R	L540-K_2	GRY/GRN	#26	R	600-3085	20"
HLR	L540-2_2	GRY/BLU	#26	S	600-3086	21"

SIGNAL	FROM P.C 6235	WIRE COLOR	WIRE SIZE	TO 5223 PIN No.	W.L. PART No.	LENGTH
$\overline{ROP}$	L535-F_2	TAN	#26	1	600-3011	28"
RTCK	L541-3_2	GRY/BLK	#26	2	600-3080	26"
RDK	L541-2_2	V10/ORN	#26	3	600 3073	26"
				4		
				5		
				6		
				7		
±0V	SEE PIN J	—	—	8	—	
+12V	343-14	BLUE	#24	9	600-2006	19"
CH. GND	6235	GRN/YEL	#24	10	600-2054	18"
-12V	343-15	WHITE	#24	11	600-2009	20"
+24V	343-P	VIOLET	#24	12	600-2007	19"
$\overline{FSR}$	L542-13,	WH/GRY	#26	13	600-3098	22"
$\overline{RSR}$	L542-14,	V10/GRY	#26	14	600-3078	23"
$\overline{HIRS}$	L542-9,	V10/BLU	#26	15	600-3076	23"

ITEM	DESCRIPTION	W.L. PART NO.	QTY
1	P.C. ED 5223	510-5223	1
2	LACING BLK	605-1001	A/R
3	SOLDER 63-37	660-0202	A/R

NOTE:

7 1. STRIP INSUL 1/4" & TIN WIRE BOTH ENDS.

WANG LABORATORIES INC.
TEWKSBURY, MASS.

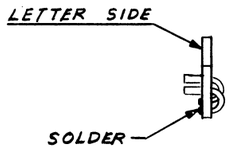
MODEL NO.	DRAWN		APP.	
709/729	CHECKED		APP.	

TITLE: RIGHT TAPE DECK P1

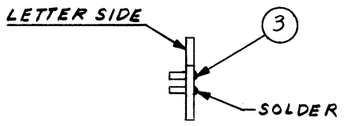
W.O. NO. SHT. 3 OF 8 | DWG. NO. C 6235-1 | REV. 7

DWG. NO. C 6235-1

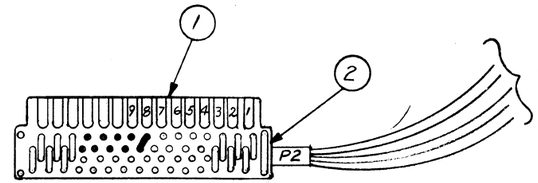
REVISIONS
REVISED: PER E.C. #3088 F.S.S. 7-7-72 APP'D. SKH
REVISED: PER ECN #3121 A-B E-28-72 APP'D. SKH
7 REV. PER RFA 0394 LET 9-17-73 APP'D 10-1-73



#26 WIRE



#24 WIRE



7 SEE NOTE 1

SIGNAL	FROM P.C. 6235	WIRE COLOR	WIRE SIZE	TO 5223 PIN No.	W.L. PART NO.	LENGTH
$\overline{RCL_0}$	L536-7_2	V10/BRN	#26	A	600-3071	28"
DIL,	L536-3_2	WH/BLK/RED	#26	B	600-3902	28½"
DIL0	L536-1_2	WH/ORN	#26	C	600-3093	29"
—	—	—	—	D	—	
—	—	—	—	E	—	
—	—	—	—	F	—	
—	—	—	—	H	—	
IOV	343-C	BLACK	#22	J & 8	600-1000	24"
+5VR	343-B	RED	#24	K	600-2002	24"
24VAC	6235	YELLOW	#24	L, M & N	600-2004	23"
24VAC		BUSS	#24	M	600-9007	
24VAC		BUSS	#24	N	600-9007	
M_1L	L540-6_2	V10/VEL	#26	P	600-3074	25"
M_2L	L540-4_2	WH/BLK/GRN	#26	R	600-3905	25"
HLR	L540-2_2	GRY/BLU	#26	S	600-3086	27"

SIGNAL	FROM P.C. 6235	WIRE COLOR	WIRE SIZE	TO 5223 PIN No.	W.L. PART No.	LENGTH
$\overline{LOP}$	L535-J_2	WH/BLK/BRN	#26	1	600-3901	33"
LTCK	L541-4_2	WH/BLK	#26	2	600-3090	27"
LDK	L541-5_2	WH/BLK/ORN	#26	3	600-3903	27"
—	—	—	—	4	—	
—	—	—	—	5	—	
—	—	—	—	6	—	
—	—	—	—	7	—	
±0V	SEE PIN J	—	—	8	—	
+12V	343-19	BLUE	#24	9	600-2006	23"
CH. GND	6235	GRN/YEL	#24	10	600-2054	22"
-12V	343-15	WHITE	#24	11	600-2009	23"
+24V	343-P	VIOLET	#24	12	600-2007	23"
$\overline{FSL}$	L542-12,	WH/BLK/GRY	#26	13	600-3908	26"
$\overline{RSL}$	L542-10	WH/BLK/V10	#26	14	600-3907	26"
HILS	L542-8,	WH/BLK/BLU	#26	15	600-3906	26"

ITEM	DESCRIPTION	W.L. PART NO.	QTY
1	P.C. BD 5223	510-5223	1
2	LACING BLK	605-1001	A/R
3	SOLDER 63-37	660-0202	A/R

NOTE:
⚠1 1 STRIP INSUL 1/4" & TIN WIRE BOTH ENDS.

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
709/729	CHECKED		APP.	

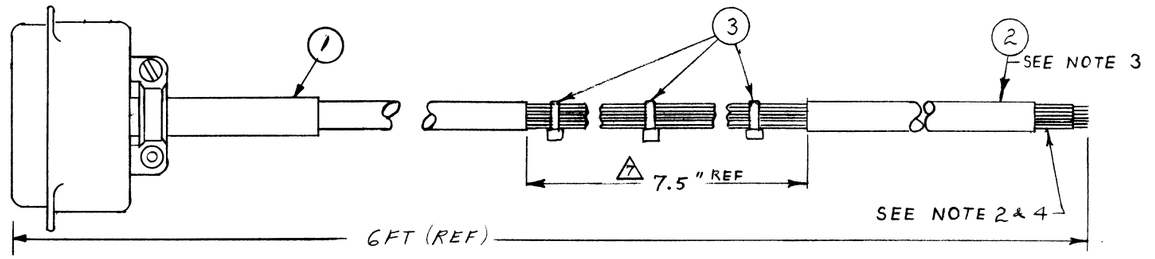
TITLE: LEFT TAPE DECK P2

W.O. NO. SHT 4 OF 8 | DWG. NO. C 6235-1 | REV. 7

C 6235-1

REV	REVISIONS
6	[illegible]
7	REV PER RFA#0386 9-17-73 [illegible] REV.- 7 APP'D, [illegible]
8	REV PER RFA#0552 11-21-73 [illegible]

SIGNAL	FROM P.C. 6235	WIRE NO. (REF)	CONN. PIN NO. (REF)	WIRE LENGTH FROM JACKET
$\overline{GKA_0}$	1	1	1	17 3/4"
$\overline{GKA_1}$	2	2	2	18"
$\overline{GKA_2}$	3	3	3	18 3/4"
$\overline{GKA_3}$	4	4	4	18"
$\overline{GKB_0}$	5	5	5	19"
$\overline{GKB_1}$	6	6	6	18 3/4"
$\overline{GKB_2}$	7	7	7	19"
$\overline{GKB_3}$	8	8	8	17 1/2"
$\overline{GISN}$	9	9	9	17 1/2"
$\overline{GPRM}$	10	10	10	17 3/4"
⚠8 ———	———	11	11	———
⚠8 ———	———	12	12	———
⚠8 ———	———	13	13	———
⚠8 ———	———	14	14	———
⚠8 ———	———	15	15	———
⚠8 ———	———	16	16	———
———	SPARE	17	17	19"
———	SPARE	18	18	19"
———	SPARE	19	19	19"
$\overline{GI_0B_0F}$	20	20	20	18 1/2"
$\overline{GI_0B_1F}$	21	21	21	18 1/4"
$\overline{GI_0B_2F}$	22	22	22	18 3/4"
$\overline{GI_0B_3F}$	23	23	23	17 1/4"
$\overline{GI_0A_0F}$	24	24	24	16 3/4"
$\overline{GI_0A_1F}$	25	25	25	18"
$\overline{GI_0A_2F}$	26	26	26	16 1/2"
$\overline{GI_0A_3F}$	27	27	27	16 1/2"
$\overline{I_0B_1}$	28	28	28	16 1/2"
$\overline{I_0B_2}$	29	29	29	16 3/4"
$\overline{I_0B_3}$	30	30	30	17 1/4"
$\overline{GISO}$	11	31	31	17 1/2"
———	12	32	32	19"
±0V	13	33	33	18 3/4"
±0V	14	34	34	18 3/4"
±0V	15	35	35	18 3/4"
CH. GND	16	36	36	19"



NOTE:-

1. PREP CABLE AS SHOWN
2. CUT WIRE LENGTHS AS SHOWN PER CHART AND STRIP 1/8"
3. FEED ALL WIRES THRU SLEEVE
4. FOLD BACK ALL UNUSED WIRES AND TIE

IDENT	QTY	NAME	W.L. PART NO.	DESCRIPTION
⚠3	3	CABLE TIE	605-1004	PAN-TY
2	7"	SLEEVE (BLK)	605-0152	5/16 TUBING
1	1	CABLE ASS'Y TYPE 2	220-2636-6	SEE DWG. C6283-2

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
709	[illegible]	5/24/72	CW	6-7-72
	CHECKED		APP.	

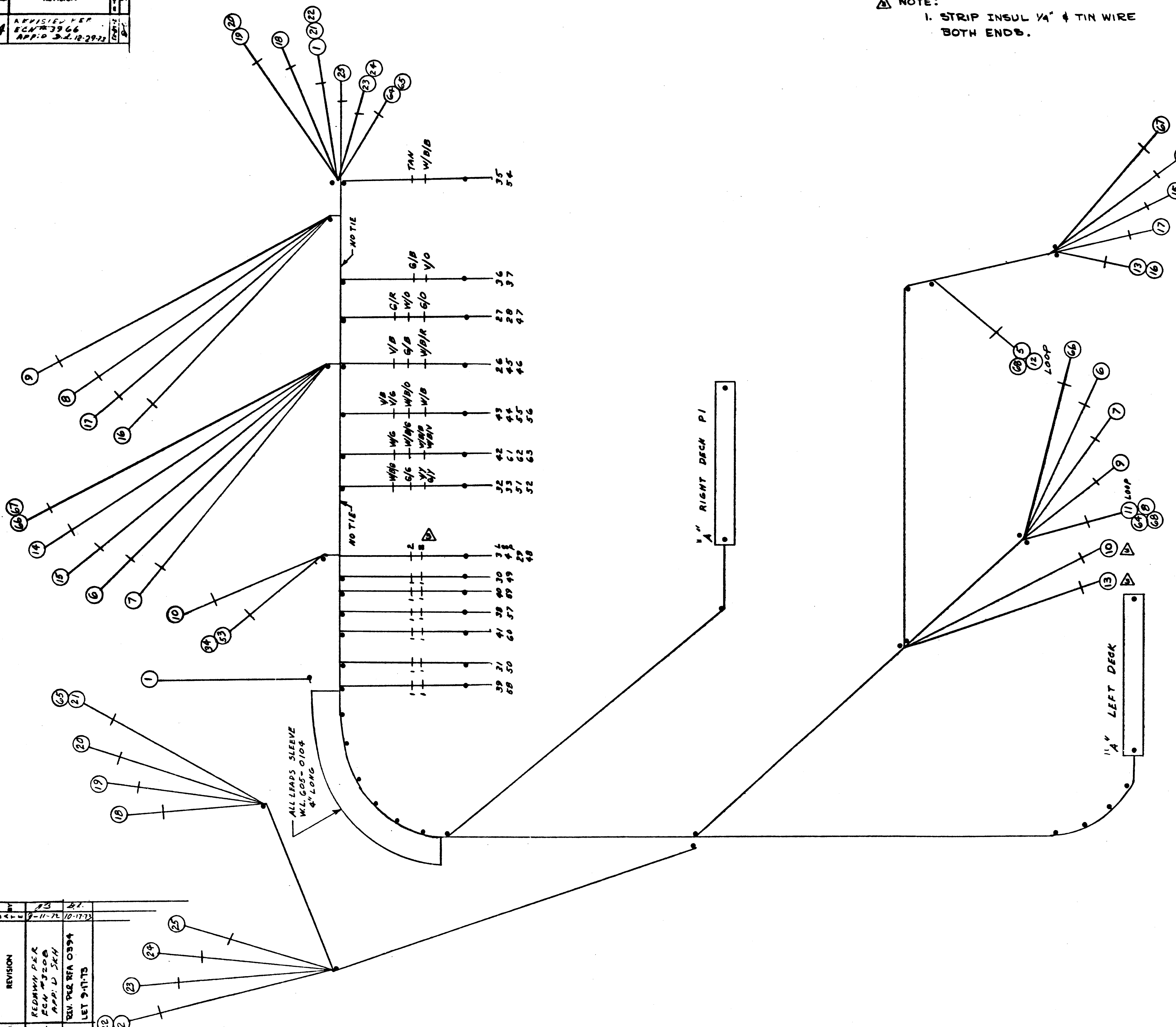
TITLE: I/O CABLE

W.O. NO. SHT 5 OF 8 | DWG. NO. C 6235-1 | REV. 8

DWG. NO. C 6235-1

NO.	REVISION	DATE	BY
4	REVISED PER ECN #3966 APP'D D.L. 12-29-73		

△3 NOTE:
1. STRIP INSUL 1/4" & TIN WIRE BOTH ENDS.



LEFT P2

COLOR CODE	WIRE TERM.
VIO/BRN	45
WHT/BLK/RED	46
WHT/ORN	47
BLACK	48
RED	49
YELLOW	50
VIO/YEL	51
WHT/BLK/GRN	52
GRY/BLU	53
WHT/BLK/BRN	54
WHT/BLK	55
WHT/BLK/ORN	56
BLUE	57
GRN/YEL	58
WHITE	59
VIOLET	60
WHT/BLK/GRY	61
WHT/BLK/VIO	62
WHT/BLK/BLU	63

RIGHT P1

COLOR CODE	WIRE TERM.
GRY/BRN	26
GRY/RED	27
GRY/ORN	28
BLACK	29
RED	30
YELLOW	31
GRY/YEL	32
GRY/GRN	33
GRY/BLU	34
TAN	35
GRY/BLK	36
VIO/ORN	37
BLUE	38
GRN/YEL	39
WHITE	40
VIOLET	41
WHT/GRY	42
VIO/GRY	43
VIO/BLU	44

SEE NOTE 1

WIRE GA.	COLOR CODE	WIRE TERM.	△3 LENGTH
#24	GREEN/YELLOW	1	17"
#24	BLACK	2	27"
#24	BLACK	3	LOOP 6"
#24	BLACK	4	LOOP 6"
#24	BLACK	5	30"
#26	WHT/GRN	6	34"
#26	WHT/BLU	7	34"
#26	WHT/VIO	8	36"
#26	ORANGE	9	38"
#26	PINK	10	26"
#26	PINK	11	LOOP 5"
#26	PINK	12	LOOP 6"
#26	PINK	13	18"
#26	GREEN	14	40"
#26	BLUE	15	41"
#26	VIOLET	16	43"
#26	WHITE	17	44"
#26	WHT/GRY	18	37"
#26	WHT/YEL	19	37"
#26	WHT/RED	20	37"
#26	WHT/BRN	21	37"
#26	BROWN	22	34"
#26	RED	23	34"
#26	YELLOW	24	34"
#26	GRAY	25	34"
#26	VIO	64	
#26	BLU	65	
#26	WHT/YEL	66	
#26	YELLOW	67	
#24	BLACK	68	

IDENT	QTY	NAME	W.L. PART NO.	DESCRIPTION
	A/R	WIRE (GRN/YEL)	600-2054	#24 GAUGE
	A/R	WIRE (WHT/GRY)	600-3098	#26 GAUGE
	A/R	WIRE (WHT/VIO)	600-3097	#26 GAUGE
	A/R	WIRE (WHT/BLU)	600-3096	#26 GAUGE
	A/R	WIRE (WHT/GRN)	600-3095	#26 GAUGE
	A/R	WIRE (WHT/YEL)	600-3094	#26 GAUGE
	A/R	WIRE (WHT/RED)	600-3092	#26 GAUGE
	A/R	WIRE (WHT/BRN)	600-3091	#26 GAUGE
	A/R	WIRE (LT BLUE)	600-3066	#26 GAUGE
	A/R	WIRE (PINK)	600-3022	#26 GAUGE
	A/R	WIRE (WHITE)	600-3009	#26 GAUGE
	A/R	WIRE (GRAY)	600-3008	#26 GAUGE
	A/R	WIRE (VIOLET)	600-3007	#26 GAUGE
	A/R	WIRE (BLUE)	600-3006	#26 GAUGE
	A/R	WIRE (GREEN)	600-3005	#26 GAUGE
	A/R	WIRE (YELLOW)	600-3004	#26 GAUGE
	A/R	WIRE (ORANGE)	600-3003	#26 GAUGE
	A/R	WIRE (RED)	600-3002	#26 GAUGE
	A/R	WIRE (BROWN)	600-3001	#26 GAUGE
	A/R	WIRE (BLACK)	600-2000	#24 GAUGE
	A/R	CABLE TYE	605-1004	PAN-TY ULTIM-M
	1	SLEEVE (BLACK)	605-0104	1/2" TUBING 4" LONG
	1	LEFT DECK P2		DWG C6235-1 SHT. 4
	1	RIGHT DECK P1		DWG C6235-1 SHT. 3

NO.	REVISION	DRAWN	BY
2	REDRAWN PER ECN #3208 APP'D SKH	9-11-72	#3
3	REV. PER RFA 0394 LET 9-17-73	10-17-73	D.L.

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 709/729 — DRAWN: 9-6-72 — CHECKED — APP. — APP'D 9-11-72

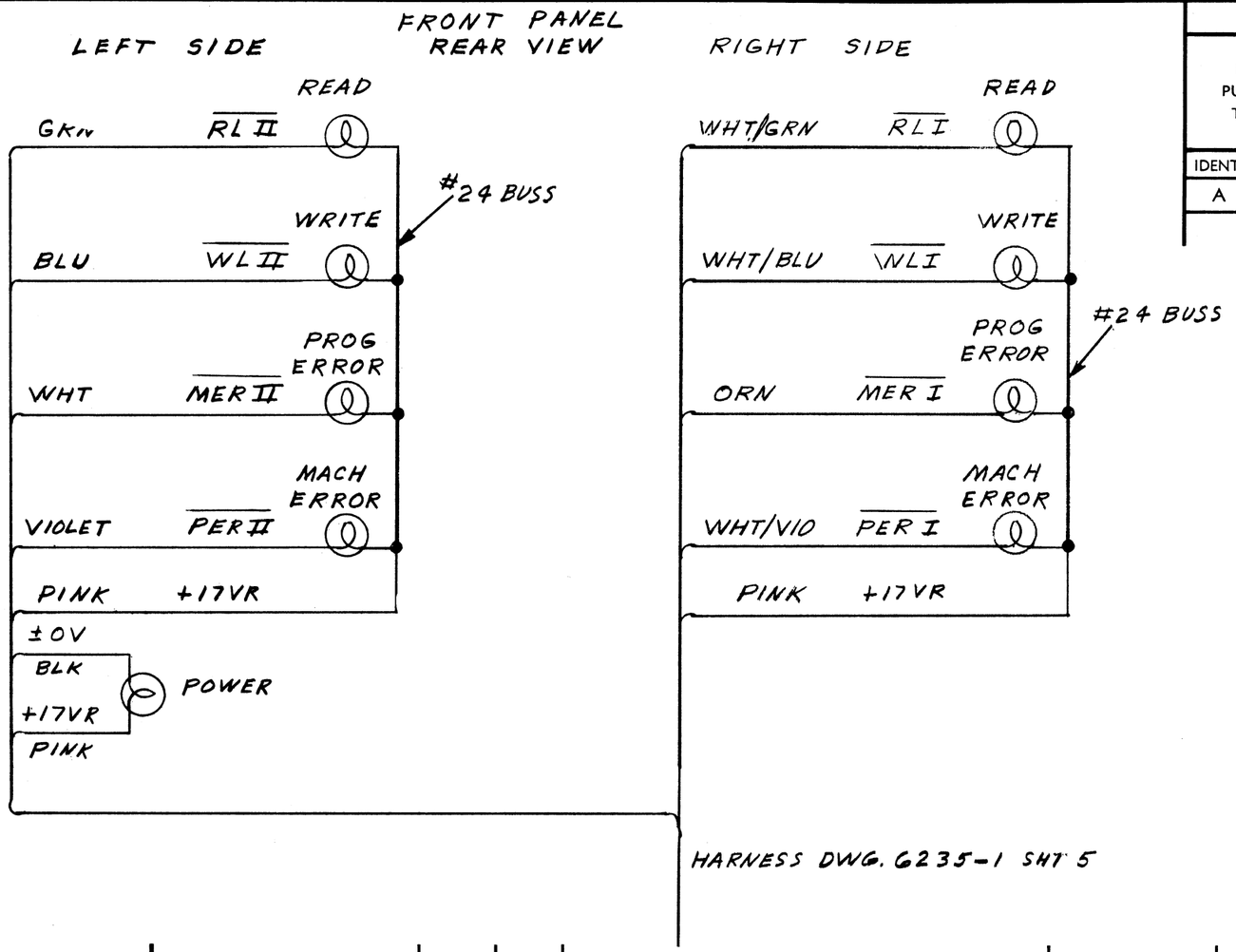
TITLE: MOTHER BOARD HARNESS W.L. 270-3030

SHT 6 OF 8 — DWG. NO. D 6235-1 — REV 4

DO NOT SCALE

DO NOT SCALE

FRONT PANEL REAR VIEW



HOLE LEGEND

	HOLE DIA.	TOL.
DRILLED OR PUNCHED HOLE TOLERANCES:	.0135 to .125	+.003 −.001
	.126 to .250	+.004 −.001
	.251 to .500	+.005 −.001

IDENT.	DESCRIPTION	QTY.
A		

NO.	REVISION	DATE	BY
2	REVISED PER ECN #32088 APP'D SKM	9-11-72	

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.

MATERIAL

FINISH

MODEL NO. 709

SEE ENGRG SPECIFICATIONS No.

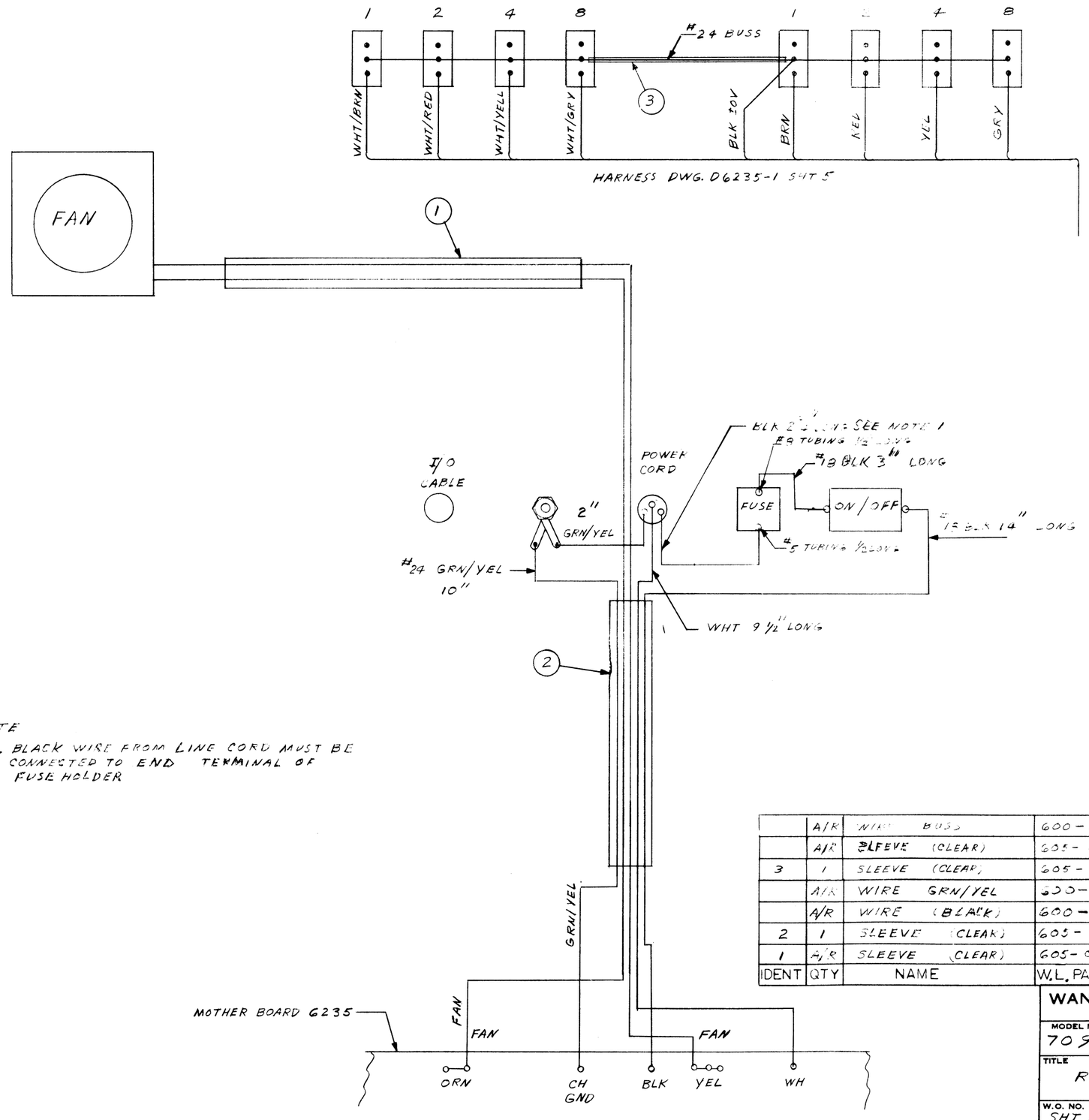
TOL. EX. AS NOTED
.XX ± .010 FRAC. ± 1/64
.XXX ± .005 ANG. ± 1°30' FINISH 128

SCALE | SHT 7 OF 8

	BY	DATE	APPROVED BY	DATE
DWN	GB	9/6/72	E ENGR	
CHK			M ENGR	
E. C. CONTROL			MFG ENGR CW	9-11-72

TITLE: FRONT PANEL WIRING

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.
	B	6235-1	4



NOTE

1. BLACK WIRE FROM LINE CORD MUST BE CONNECTED TO END TERMINAL OF FUSE HOLDER

IDENT	QTY	NAME	W.L. PART NO.	DESCRIPTION
	A/R	WIRE BUSS	600-9007	#24 GAUGE
	A/R	SLEEVE (CLEAR)	605-0014	#4 TUBING
3	1	SLEEVE (CLEAR)	605-0120	#22 TEFLON TUBING 1 3/4 LONG
	A/R	WIRE GRN/YEL	600-2054	#24 GAUGE
	A/R	WIRE (BLACK)	600-0000	#18 GAUGE
2	1	SLEEVE (CLEAR)	605-0015	#3 TUBING 5 1/2" LONG
1	A/R	SLEEVE (CLEAR)	605-0010	#2 TUBING

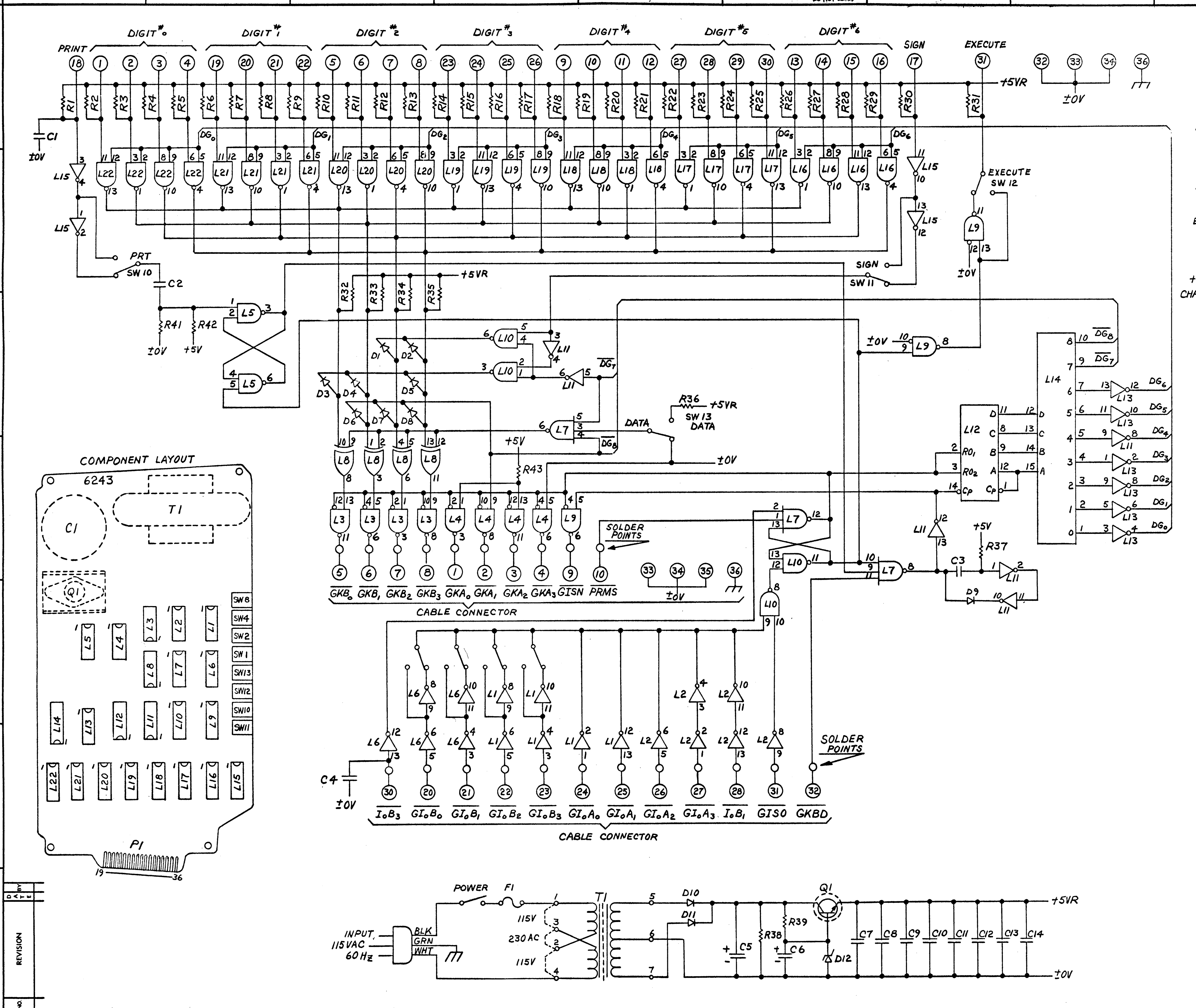
REVISIONS

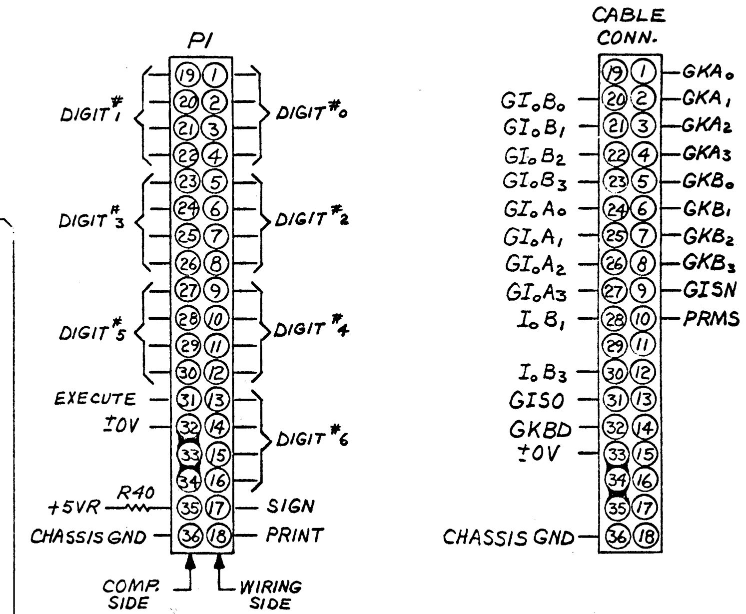
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.
709	CHECKED	APP.

TITLE: REAR PANEL WIRING

W.O. NO. SHT 8 OF 8 | DWG. NO. C 6235-1 | REV.





LOCATION	TYPE	W.L. PART NO.	TERM.NO Vcc +5VR	TERM.NO. ±0V	QTY.
L1, 6	SN7405N	376-0029	14	7	2
L2	9936	376-0026	14	7	1
L3, 4, 9	8T09	376-0078	14	7	3
L5	SN7400N	376-0002	14	7	1
L7	9963	376-0033	14	7	1
L8	SN7486N	376-0036	14	7	1
L10	9946	376-0023	14	7	1
L11, 13, 15	SN7404N	376-0010	14	7	3
L14	SN 7442N	376-0008	16	8	1
L16 THRU 22	SN 7401 N	376-0015	14	7	7

COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY.
Q1	40250V1	375-1028	1
R1 THRU R30	47K 1/4W	330-4047	30
R31	470Ω 1/4W	330-2047	1
R32 THRU R35	1.5K 1/4W	330-3015	4
R36,37,38,41,42,43	10K 1/4W	330-4010	6
R39	47Ω 1/4W	330-1047	1
R40	10Ω 1/4W	330-1010	1
C1	390pf	300-1390	1
C2	.001μf	300-1906	1
C3	.01μf 25V	300-1903	1
C4	560pf	300-1560	1
C5	4000μf 15V	300-3016	1
C6,7	10μf 15V	300-3006	2
C8 THRU C14	.05μf	300-1900	7
D1 THRU D8	SIL. DIODE	380-1001	8
D9	GER. DIODE	380-0000	1
D10,11	EM 403	380-4000	2
D12	IN752A (ZENER)	380-2056	1
T1	MMC-4051	410-0067	1
F1	.125ASB 110VAC	360-1000	1
	FUSE CLIP	360-0002	2
	RIVET	651-0601	2
	.0625ASB 220VAC	360-0900	1
SW1,2,4,8,10,11,12,13	SPDT	325-2105	8

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
705-1A	LK	12-7-72	G.C.V.	1-25-73
	CHECKED		APP.	

TITLE: SCHEMATIC LOGIBLOC #6243 INTERFACE

SHT OF — DWG. NO. D 6243-1 — REV.

D 6241-1

DO NOT SCALE

DIGIT #0 … DIGIT #6 · PRINT · SIGN · EXECUTE · +5VR · ±0V

C1 · PRT SW10 · C2 · R41 · R42 · L5

R32 R33 R34 R35 +5VR

SIGN SW11 · EXECUTE SW12 · L9

D1 D2 D3 D4 D5 D6 · L10 · L11 · $\overline{DG_7}$ · $\overline{DG_8}$

R36 +5VR · SW13 DATA · DATA · L7 · L5

L8 · L3 · L4

SOLDER POINTS

GKB_0 GKB_1 GKB_2 GKB_3 GKA_0 GKA_1 GKA_2 GKA_3 GISN PRMS ±0V

CABLE CONNECTOR

L6 · L1 · L2 · C4

I_0B_3 GI_0B_0 GI_0B_1 GI_0B_2 GI_0B_3 GI_0A_0 GI_0A_1 GI_0A_2 GI_0A_3 I_0B_1 GISO GKBD

CABLE CONNECTOR

L14 · L12 · L13 · R01 R02 CP · $\overline{DG_6}$ … $\overline{DG_0}$ · L11 · +5V · R37 · C3 · D7

P1

DIGIT #1	19 1	DIGIT #0
	20 2	
	21 3	
	22 4	
DIGIT #3	23 5	DIGIT #2
	24 6	
	25 7	
	26 8	
DIGIT #5	27 9	DIGIT #4
	28 10	
	29 11	
	30 12	
EXECUTE	31 13	DIGIT #6
±0V	32 14	
	33 15	
	34 16	
+5VR R40	35 17	SIGN
CHASSIS GND	36 18	PRINT

COMP. SIDE · WIRING SIDE

CABLE CONN.

GI_0B_0	19 1	GKA_0
GI_0B_1	20 2	GKA_1
GI_0B_2	21 3	GKA_2
GI_0B_3	22 4	GKA_3
GI_0A_0	23 5	GKB_0
GI_0A_1	24 6	GKB_1
GI_0A_2	25 7	GKB_2
GI_0A_3	26 8	GKB_3
I_0B_1	27 9	GISN
	28 10	PRMS
I_0B_3	29 11	
GISO	30 12	
GKBD	31 13	
±0V	32 14	
	33 15	
	34 16	
	35 17	
CHASSIS GND	36 18	

COMPONENT LAYOUT

6243 · C1 · T1 · Q1 · L5 L4 L3 L2 L1 · L8 L7 L6 · L14 L13 L12 L11 L10 L9 · L22 L21 L20 L19 L18 L17 L16 L15 · SW8 SW4 SW2 SW1 SW13 SW12 SW10 SW11 · 19 — 36

POWER FI · INPUT 115VAC 60Hz · BLK GRN WHT · 115V 230AC 115V · T1 · D8 D9 · C5 · R38 · R39 · C6 · Q1 · D10 · C7 C8 C9 C10 C11 C12 C13 C14 · +5VR · ±0V

LOCATION	TYPE	W.L. PART NO.	TERM.NO. V_{cc} +5VR	TERM.NO. ±0V	QTY.
L1, 6	SN7405N	376-0029	14	7	2
L2	9936	376-0026	14	7	1
L3,4,9	8T09	376-0078	14	7	3
L5	SN7400N	376-0002	14	7	1
L7	9963	376-0033	14	7	1
L8	SN7486N	376-0036	14	7	1
L10	9946	376-0023	14	7	1
L11,13,15	SN7404N	376-0010	14	7	3
L14	SN7442N	376-0008	16	8	1
L16 THRU L22	SN7401N	376-0015	14	7	7
L12	SN7493N	376-0011	5	10	1

COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY.
Q1	40250V1	375-1028	1
R1 THRU R30	47K 1/4W	330-4047	30
R31	470Ω 1/4W	330-2047	1
R32 THRU R35	1.5K 1/4W	330-3015	4
R36,37,38,41,42	10K 1/4W	330-4010	5
R39	47Ω 1/4W	330-1047	1
R40	10Ω 1/4W	330-1010	1
C1	390pf	300-1390	1
C2	.0014f	300-1906	1
C3	.014f 25V	300-1903	1
C4	560pf	300-1560	1
C5	4000uf 15V	300-3016	1
C6,7	10uf 15V	300-3006	2
C8 THRU C14	.05uf	300-1900	7
D1 THRU D6	SIL DIODE	380-1001	6
D7	GERMANIUM	380-0000	1
D8, 9	EM403	380-4000	2
D10	IN752A	380-2056	1
T1	MMC-4051	410-0067	1
F1	.125ASB/10VAC	360-1000	1
	FUSE CLIP	360-0003	2
	RIVET	651-0601	2
	.06.25ASB.250MX	360-0990	1
SW1,2,4,8,10,11,12,13	SPDT	325-2105	8

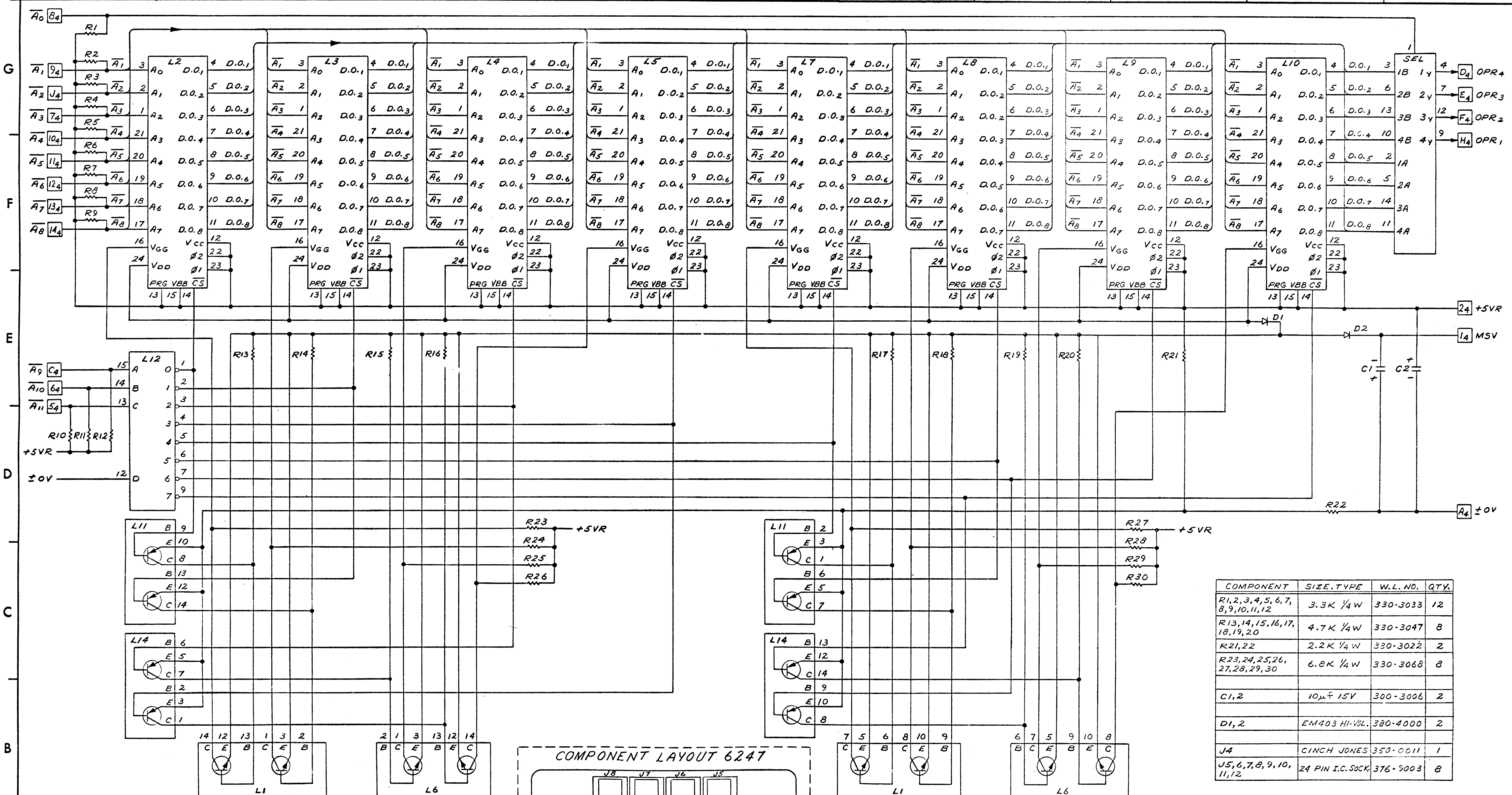
REVISION

WANG LABORATORIES INC. TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP	
605-1A	CHECKED	APP.	

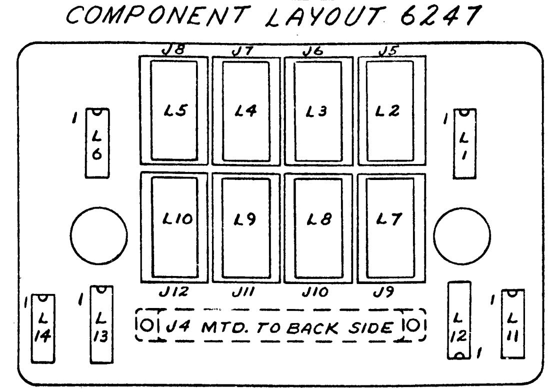
TITLE: SCHEMATIC, LOGIBLOC, INTERFACE #6243

SHT 1 OF 1 · DWG. NO. D 6243-2 · REV.



COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1,2,3,4,5,6,7,8,9,10,11,12	3.3K 1/4W	330-3033	12
R13,14,15,16,17,18,19,20	4.7K 1/4W	330-3047	8
R21,22	2.2K 1/4W	330-3022	2
R23,24,25,26,27,28,29,30	6.8K 1/4W	330-3068	8
C1,2	10μf 15V	300-3006	2
D1,2	EM403 HI-VOL.	380-4000	2
J4	CINCH JONES	350-0011	1
J5,6,7,8,9,10,11,12	24 PIN I.C. SOCK.	376-9003	8

COMPONENT LAYOUT 6247



I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1,6	FPQ3725	376-0106			2
L2,3,4,5,7,8,9,10	INTEL 1702	377-0009		12	8
L11,14	FPQ3468	376-0107			2
L12	SN7442N	376-0008	8	16	1
L13	SN74157N	376-0082	8	16	1

NO.	REVISION	DATE	BY
1	REVISED: PER E.C. #3648 APP'D. STOUFFER		

WANG LABORATORIES INC.
TEWKSBURY, MASS.

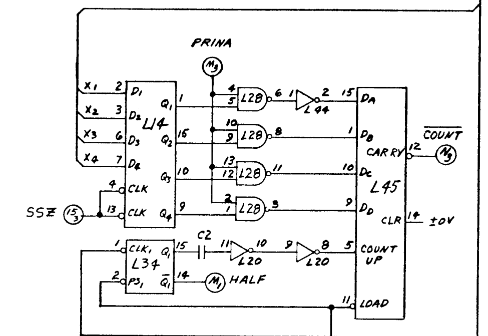
MODEL NO. 600 | DRAWN F.S.S. 5-13-72 | APP. SKH 6/16/72 | CHECKED | APP.

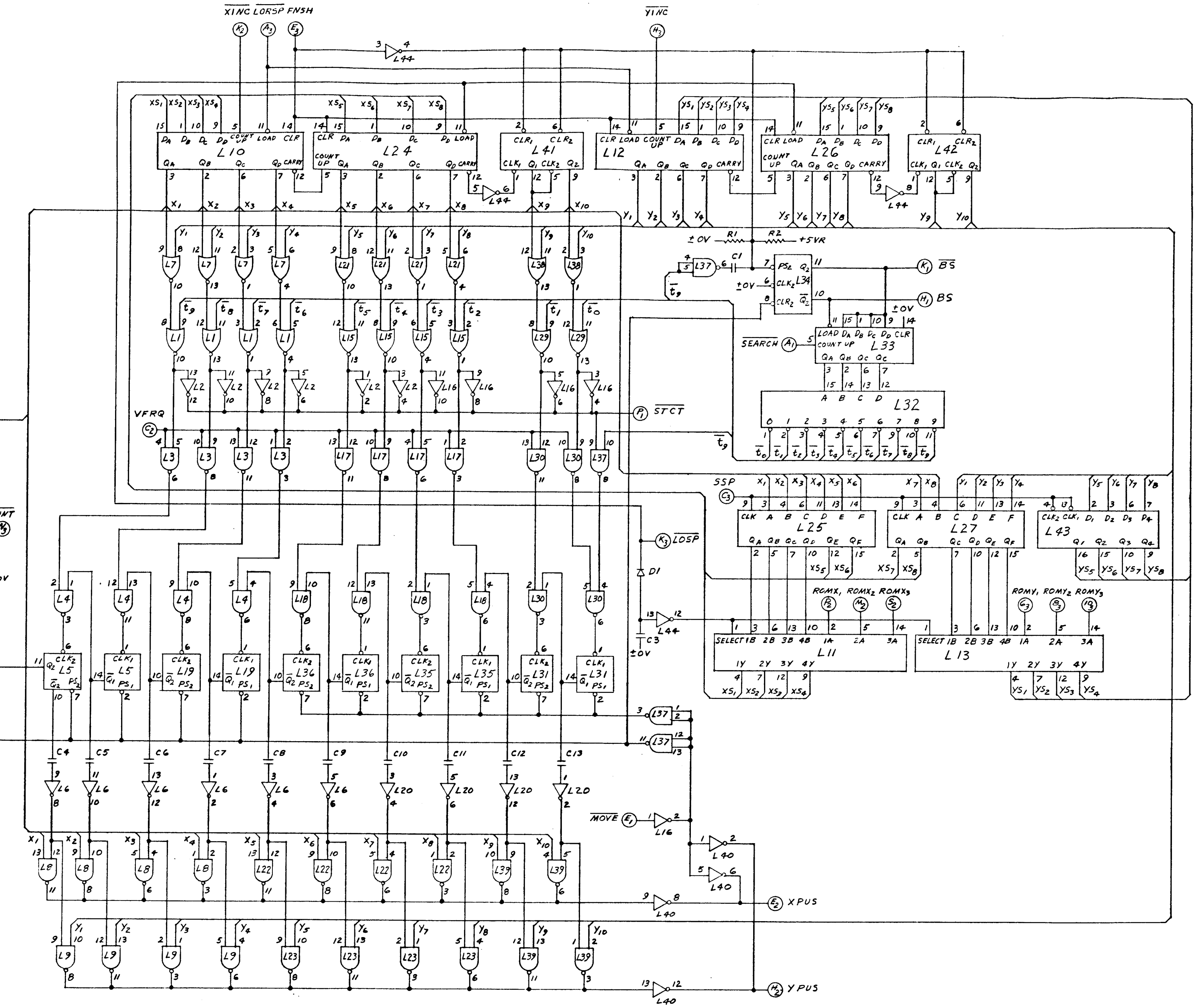
TITLE: SCHEMATIC LOGIBLOC #6247-1 USERS ROM (INTEL ROM) 8 CHIPS

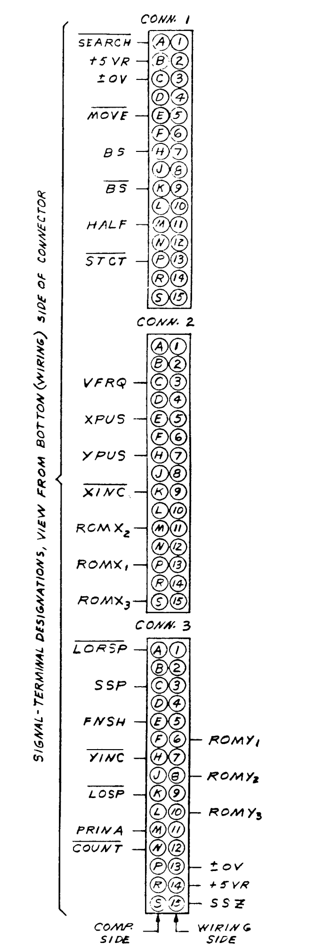
SHT OF | DWG. NO. D 6247-1 | REV. 1

D 6247-1

COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY
R1	3.3K 1/4W	330-3033	1
R2	2.2K 1/4W	330-3022	1
C1	.0015 MF	300-1907	1
C2	.001 MF	300-1906	1
C3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	330 pF	300-1330	11
C14, 22	10 MF 15V	300-3005	2
C15, 16, 17, 18, 19, 20, 21	.05 MF	300-1900	7
D1	GER. DIODE	380-0000	1

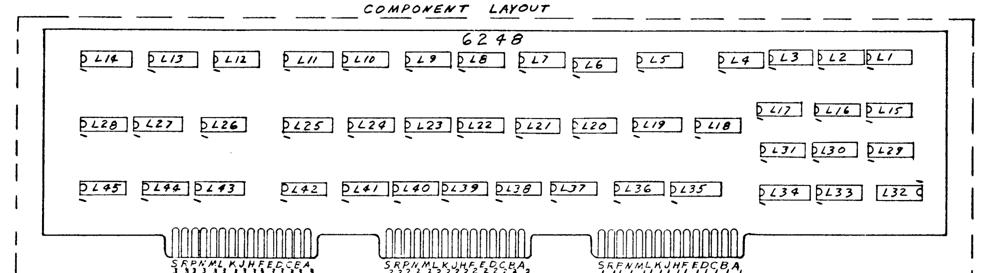


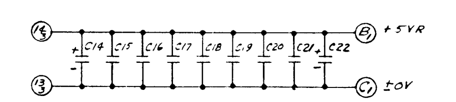




LOCATION	TYPE	W.L. PART No.	TERM. No. ±OV	TERM. No. V_{CC} +5VR	QTY
L1, 7, 15, 21, 29, 38	SN7402N	376-0016	7	14	6
L2	SN7406N	376-0055	7	14	1
L3, 4, 17, 18, 28, 30	SN7400N	376-0002	7	14	6
L5, 19, 31, 34, 35, 36	SN7476N	376-0007	13	5	6
L6, 20	9935	376-0025	7	14	2
L8, 9, 22, 23	SN7403	376-0028	7	14	4
L10, 12, 24, 26, 33, 45	SN74193N	376-0053	8	16	6
L11, 13	SN74157N	376-0082	8	16	2
L14, 43	SN7475N	376-0013	12	5	2
L16, 40	9936	376-0026	7	14	2
L25, 27	SN74174N	376-0098	8	16	2
L32	SN7442N	376-0008	8	16	1
L37	SN7437N	376-0068	7	14	1
L39	9946	376-0023	7	14	1
L41, 42	SN7473N	376-0005	11	4	2
L44	SN7407N	376-0010	7	14	1

COMPONENT LAYOUT





WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION

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

MODEL NO. 612/712

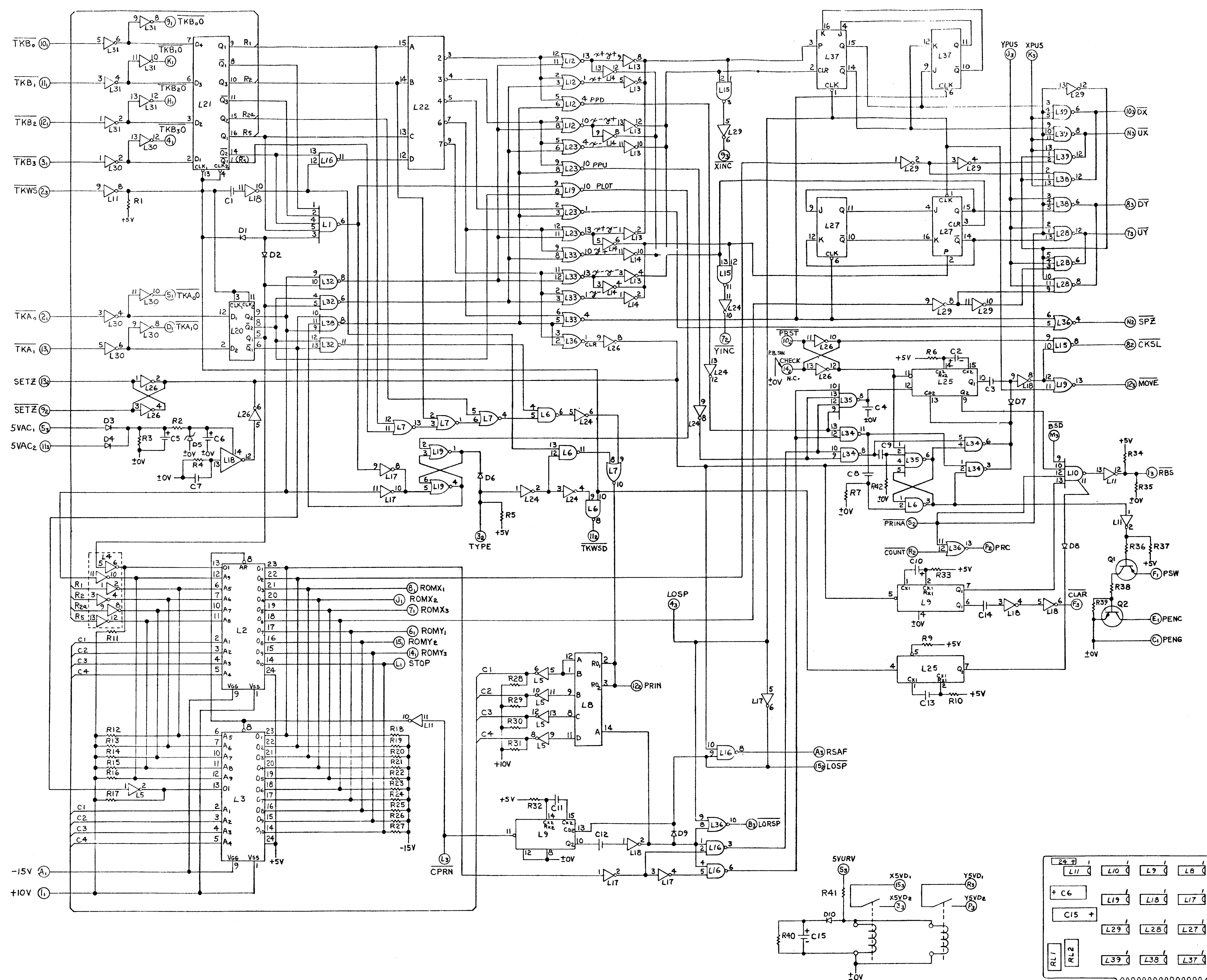
SEE ENGRG SPECIFICATIONS No.

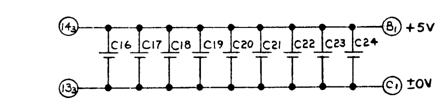
TOL EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH 125

TITLE: SCHEMATIC LOGIC PC 6248 ΔX AND ΔY CIRCUIT

SIZE: E — DRAWING NUMBER: 6248-1

REVISION

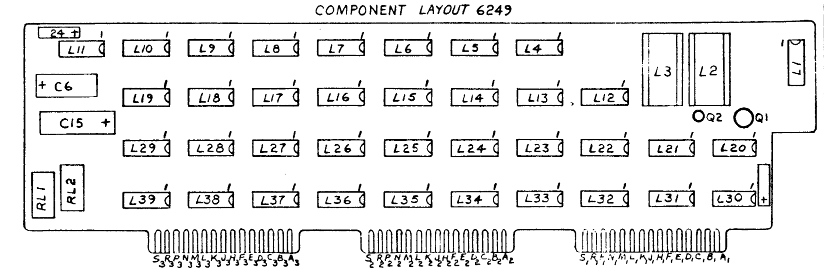




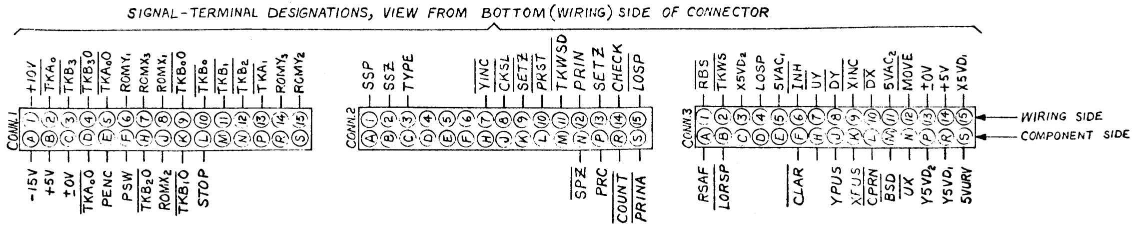
LOCATION	TYPE	W.L. PART NO.	TERM NO. Vcc +5VR	TERM. NO. ±0V	QTY.
L1,10	9930	376-0022	14	7	2
L2	EA4098-4	377-0021			1
L3	EA4097-4	377-0022			1
L4,5,11	SN7406N	376-0055	14	7	3
L35	SN7420N	376-0004	14	7	1
L7,12,19,23,33,36	SN7402N	376-0016	14	7	6
L8	SN7493N	376-0011	10	5	1
L9,25	9602	376-0104	16	8	2
L13,14,17,26	9936	376-0026	14	7	4
L6,15,16,32	SN7400N	376-0002	14	7	4
L18	9935	376-0025	14	7	1
L20	SN7474N	376-0006	14	7	1
L21	SN7475N	376-0013	12	5	1
L22	SN7442N	376-0008	16	8	1
L24,29-31	SN7404N	376-0010	14	7	4
L27,37	SN7476N	376-0007	13	5	2
L28,38,39	9963	376-0033	14	7	3
L34	9946	376-0023	14	7	1

COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY.
Q1	2N3725	375-1027	1
Q2	GT544	375-1011	1
R1,37,39	4.7K-1/4W	330-3047	3
R2,38	100Ω-1/4W	330-2010	2
R3-5,9,18-27	10K-1/4W	330-4010	14
R6,10,33	27K-1/4W	330-4027	3
R7,8,42	6.8K-1/4W	330-3068	3
R11-17,28-31	8.2K-1/4W	330-3082	11
R32	39K-1/4W	330-4039	1
R34	1.8K-1/4W	330-3018	1
R35	2.2K-1/4W	330-3022	1
R36,40	1K-1/4W	330-3011	2
R41	47Ω-1/2W	330-1047	1
C1,3	820Pf	300-1820	2
C2,10	8.2μf	300-4028	2
C4	680Pf	300-1680	1
C5	47μf,15V	300-4020	1
C6	1μf	300-4000	1
C7	5.6μf	300-4017	1
C8,9	220Pf	300-1220	2
C13	.0047	300-2047	1
C11	470Pf	300-1470	1
C12	560Pf	300-1560	1
C14	330Pf	300-1330	1
C15	200μf,15V		1
C16-22	.05μf	300-1900	7
C23,24	15μf,20V	300-4022	2
D1,2,7,8,10	SILICON	380-1001	5
D3,4	EM403	380-4000	2
D5	5.1V ZENER	380-2051	1
D6,9	GERMANIUM	380-0000	2

COMPONENT LAYOUT 6249



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



REVISION: A — REVISED PER ECN 3214

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION

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

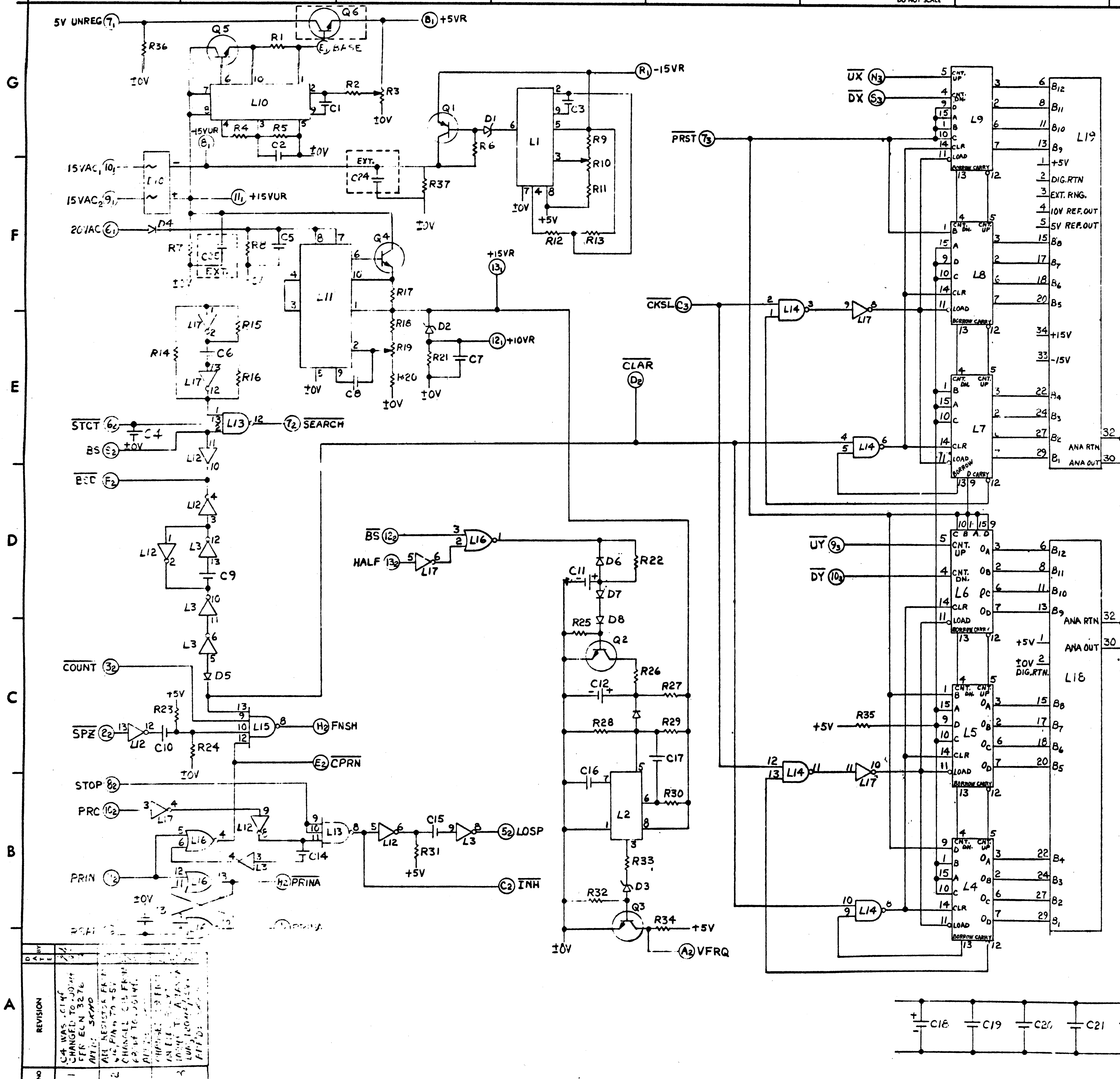
MODEL NO. 612/712

SEE ENGRG SPECIFICATIONS No.

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

TITLE SCHEMATIC LOGIBLOC #6249 CONTROL CARD

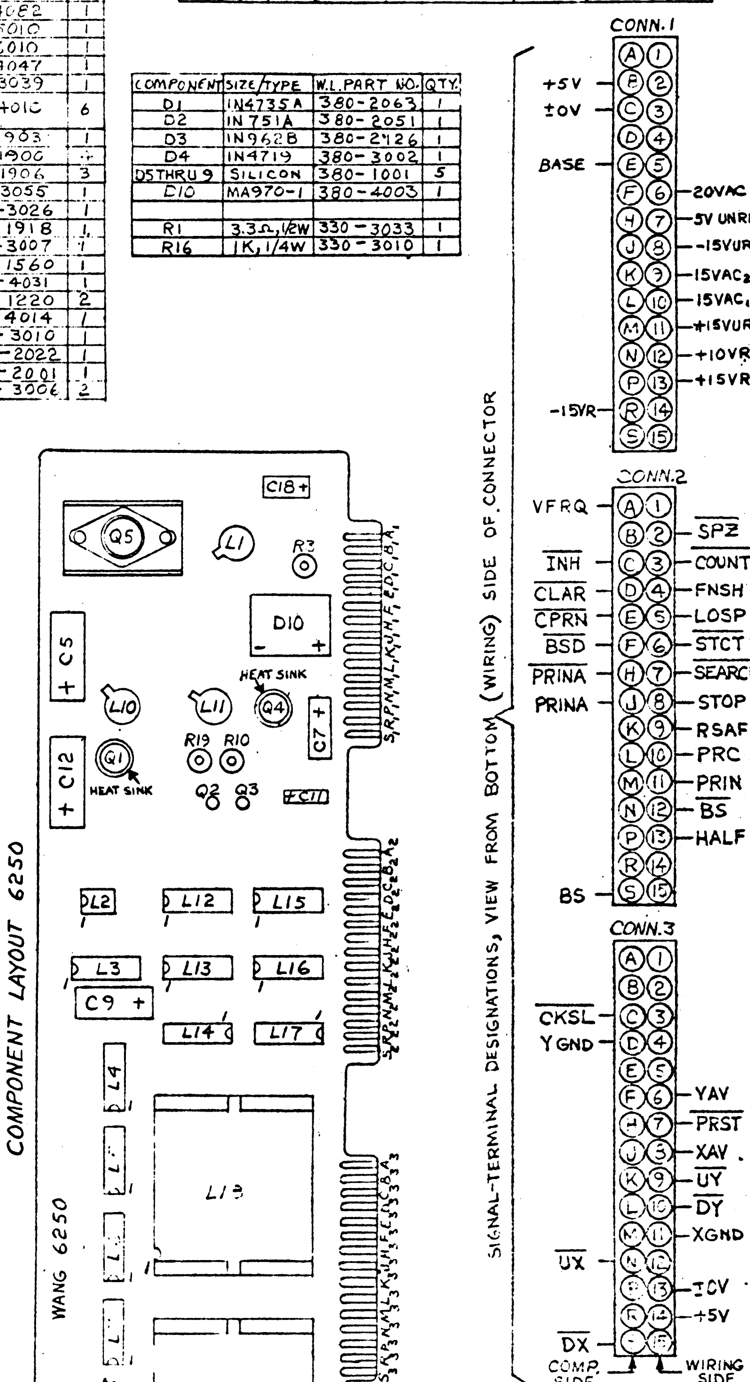
SIZE	DRAWING NUMBER	REV.
E	6249-1	1



COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY
Q1	ST32031	375-1020	1
Q2,Q3	NIXIE DRIVER	375-1006	2
Q4	35224	375-1001	1
Q5	40250	375-1028	1
Q6	2N6103(EXT.)	375-1035	1
R13,18,31	3.3K 1/4W	331-3033	3
R2,14,15	470Ω 1/4W	330-4047	3
R3,10,19	1K POT	336-1001	3
R4,20	2.7K 1/4W	330-3027	2
R5,11,23,34	4.7K 1/4W	330-3047	4
[illegible]	10K, 1/2W	331-4010	3
R6	[illegible] 1/4W	[illegible]	1
R9	680Ω 1/4W	330-2068	1
R12	1.8K 1/4W	330-3018	1
R17	2.2Ω 1/2W	331-0022	1
R24	5.6K 1/4W	330-3056	1
R26	82K 1/4W	330-4082	1
R27	100K 1/4W	330-5010	1
R28	1M 1/4W	330-6010	1
R29	47K 1/4W	330-4047	1
R30	3.9K 1/4W	330-3039	1
R21,22, [illegible],33,35	10K 1/4W	330-4010	6
C1	.01μf 25V	300-1903	1
C2,1?-22	.05μf 12V	300-1900	[illegible]
C3,4,15,[illegible]	.001μf 200V	300-1906	3
C24,25 (EXT)	1000MFD	300-3055	1
C5	100μf 25V	300-3026	1
C6	.1μf 25V	300-1918	1
C7	15μf 15V	300-3007	1
C8	560PF	300-1560	1
C9	120μf 15V	300-4031	1
C10,14	220PF	300-1220	2
C11	2.2μf 20V	300-4014	1
C12	50μf 50V	300-3010	1
C13	.0022μf 100V	300-2022	1
C16	.1MF 150V	300-2001	1
C18,[illegible]	10μf 16V	300-3006	2

LOCATION	TYPE	W.L. PART NO.	TERM. NO. VCC +5VR	TERM. NO. ±0V	QTY.
L1,10,11	μA723	376-0066	8	5	3
L2	NE5566E	376-0112	8	1	1
L3	9935	376-0025	14	7	1
L4 THRU 9	N74193	376-0053	16	8	6
L12	9936	376-0026	14	7	1
L13	SN7410N	376-0003	14	7	1
L14	SN7400N	376-0002	14	7	1
L15	SN7420N	376-0004	14	7	1
L16	SN7402N	376-0016	14	7	1
L17	SN7404N	376-0010	14	7	1
L18,19	MP1812A	725-0400			2

COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY.
D1	IN4735A	380-2063	1
D2	IN751A	380-2051	1
D3	IN962B	380-2126	1
D4	IN4719	380-3002	1
D5 THRU 9	SILICON	380-1001	5
D10	MA970-1	380-4003	1
R1	3.3Ω, 1/2W	330-3033	1
R16	1K, 1/4W	330-3010	1



WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
612/712	GK	10/6/72	[illegible]	10/23/72
	CHECKED		APP.	

TITLE: SCHEMATIC LOGIBLOC #6250 REGULATOR & D/A

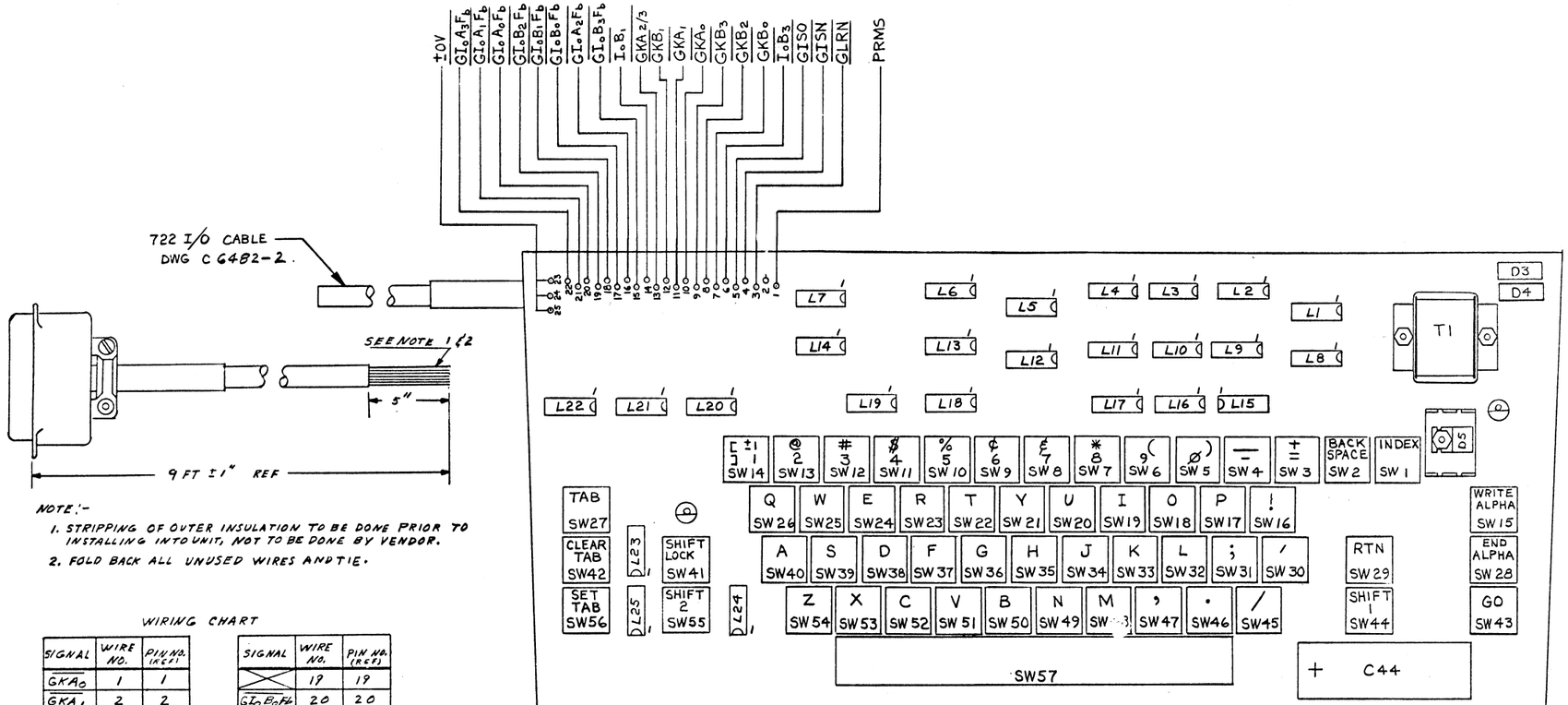
SHT 1 OF 1 — DWG. NO. D 6250-1 — REV. 3

DO NOT SCALE

NOTES
1. *CODES FOR 600.
2. +PIN 13 IS CONNECTED TO GKA2 FOR 700 AND TO GKA3 FOR 600.

WANG LABORATORIES INC. TEWKSBURY, MASS.			
MODEL NO. 722	DRAWN EK 4-25-72	APP.	12/01/72
	CHECKED	APP.	
TITLE SCHEMATIC LOGIBLOC 6251 722 ALPHANUMERIC KEYBOARD			
SHT 1 OF 2	DWG. NO. D 6251-1	REV. 4	

REVISION



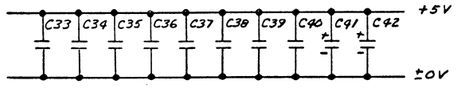
NOTE:-

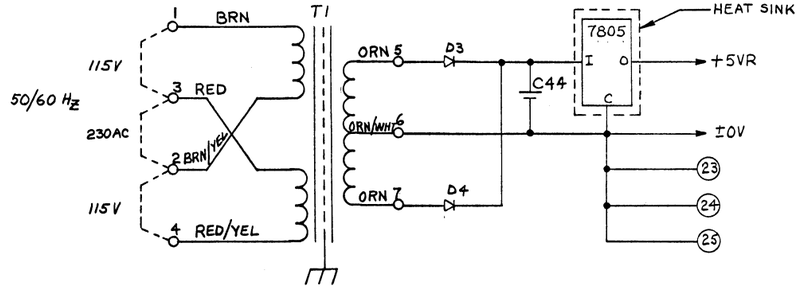
1. STRIPPING OF OUTER INSULATION TO BE DONE PRIOR TO INSTALLING INTO UNIT, NOT TO BE DONE BY VENDOR.
2. FOLD BACK ALL UNUSED WIRES AND TIE.

COMPONENT LAYOUT

WIRING CHART

SIGNAL	WIRE NO.	PIN NO. (REF)	SIGNAL	WIRE NO.	PIN NO. (REF)
$\overline{GKA_0}$	1	1	X	19	19
$\overline{GKA_1}$	2	2	$\overline{GI_0B_0F_b}$	20	20
$\overline{GKA_2}$	3	3	$\overline{GI_0B_1F_b}$	21	21
$\overline{GKA_3}$	4	4	$\overline{GI_0B_2F_b}$	22	22
$\overline{GKB_0}$	5	5	$\overline{GI_0B_3F_b}$	23	23
$\overline{GKB_1}$	6	6	$\overline{GI_0A_0F_b}$	24	24
$\overline{GKB_2}$	7	7	$\overline{GI_0A_1F_b}$	25	25
$\overline{GKB_3}$	8	8	$\overline{GI_0A_2F_b}$	26	26
$\overline{GISN}$	9	9	$\overline{GI_0A_3F_b}$	27	27
$\overline{PRMS}$	10	10	$\overline{I0B_1}$	28	28
$\overline{GLRN}$	11	11	X	29	29
X	12	12	$\overline{I0B_3}$	30	30
X	13	13	$\overline{GISO}$	31	31
X	14	14	$\overline{GKBD}$	32	32
X	15	15	±0V	33	33
X	16	16	I0V	34	34
X	17	17	I0V	35	35
X	18	18	CH.GND	36	36





LOCATION	TYPE	W.L. PART NO.	TERM.NO. Vcc +5VR	TERM.NO. ±0V	QTY.
L1,8,23,25	9944	376-0024	14	7	4
L2,4	SN7476N	376-0007	5	13	2
L3,24	SN7404N	376-0010	14	7	2
L5,12	9602	376-0104	14	7	2
L6,11	SN7400N	376-0002	14	7	2
L7	SN7406N	376-0055	14	7	1
L9,10	SN7493N	376-0011	5	10	2
L13,22	SN7430N	376-0031	14	7	2
L14,20	SN7401N	376-0015	14	7	2
L15	SN74145N	376-0069	16	8	1
L16	SN74151N	376-0047	16	8	1
L17	9314	376-0105	16	8	1
L18	SP380	376-0061	8	1	1
L19	SN7405N	376-0029	14	7	1
L21	SN7402N	376-0016	14	7	1

COMPONENT	SIZE/TYPE	W.L.PART NO.	QTY.
R1 THRU 11, 30,35, 40 THRU 46	1.8K 1/4W	330-3018	20
R12 THRU 22, 31,36, 47 THRU 53	2.2K 1/4W	330-3068	20
R24,26,28,32, 33,34,67,68, 71,73	10K 1/4W	330-4010	11
R23	560Ω 1/4W	330-2056	1
R25	18K 1/4W	330-4018	1
R27,29	27K 1/4W	330-4027	2
R37,38,39, 54 THRU 66, 69,70,72,74	1K 1/4W	330-3010	20
C1 THRU 12,17,20 THRU 27,33-38	.01μf	300-1903	28
C13	10μf, 35V	300-4032	1
C14	220 pf	300-1220	1
C39,40	.054f, 12V	300-1909	2
C15,16	.0024f	300-1913	2
C18,19	.0047 (MYLAR)	300-2047	2
C28 THRU 32	.024f	300-1904	5
C41,42	8.2μf, 20V	300-4028	2
C44	5000MF, 10V	300-3060	1
D2,6,7	GERMANIUM	380-0000	3
D3,4	IN3253	380-3003	2
T1	MMC-4537	410-0076	1
	SUPPORT BRKT.	452-2084	2
	PAN HD. SCREW	650-2361	2
	4-40 HEX NUT	652-2000	2
	#4 LOCK WASHER	653-2002	2
	1705 LAMP	370-0000	2
D5	HEAT SINK	375-9018	1
	4-40 HEX NUT	652-2000	1
	#4 LOCK WASHER	653-2002	1
	PAN HD. SCREW	650-2120	1
	FISH PAPER	615-0351	AR
	7805 REGULATOR	374-0001	1
DWG. C 6482-2	I/O CABLE	220-2636-9	1
	GROMMET	654-1205	1
SW44,55	SPDT ½" PLUNGER	325-2407	2
ALL OTHER SW.	SPST ½" PLUNGER	325-2405	55

NO.	REVISION	BY	DATE
1	REVISED PER ECN-3233 APP'D: [illegible]	BK	10-11-72
2	REVISED PER ECH-3641 APP'D: [illegible]	ZK	5-30-73
3	PER ECN #3715 ADDED WIRING CHART APP'D: [illegible]	DC	6-3-73
4	REV. PER ECN No. 3912 11-14-73 [illegible]	N.T	12-5-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	CHECKED	APP'D
722	ZK 9-25-72		[illegible] 10/10/72

TITLE: SCHEMATIC LOGIBLOC 6251
722 ALPHANUMERIC KEYBOARD

SHT 2 OF 2 | DWG. NO. D 6251-1 | REV. 4

DO NOT SCALE

NOTE: 1. L22A AND TWO D2 DIODES ARE LOADED ONLY IN THE 607.
2. THREE JUMPERS ARE USED IN THE 707.

HOLE LEGEND

	HOLE DIA.	TYP.
DRILLED OR PUNCHED HOLE TOLERANCES:	.0135 to .125	± .005
	.126 to .250	± .006
	.251 to .500	± .007

IDENT.	DESCRIPTION	QTY.
A		

707 LOADING

607 LOADING

JUMPER USED IN 607 ONLY

P1
+5VR
±0V
GI₀A₀F
GI₀B₁F
GI₀B₂F
GI₀B₃F
GI₀A₀F
GI₀A₁F
GI₀A₂F
GI₀A₃F
GPIH
ILD
GIST
AXYZ
Q1
Q2
Q3
SCP
#1234
XON
Q4
XOFF
MI13
STT

P2
ROUT
GIIGO
STGO
GPIH
GISOD
SR
TKWS
TKWS
CB6
CB7
CB5
b4
CB2
CB3
CB1
CB4
GISO

P3
NOT #
ROUT
PRIME
GPII
DATA ST
b6
b5
b3
b1
b2
DATA
b7
3PS
±0V
+5VR
CLFF
COMP. SID
WIRING SIDE

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

LOCATION	TYPE	W.L. PART NO.	TERM. NO. Vcc +5VR	TERM. NO. ±0V	QTY.
L12,13	SP380A	376-0061	8	1	2
L7, 25	SN7400N	376-0002	14	7	2
L4,14,15,24	SN7402N	376-0016	14	7	4
L22A	SN7408N	376-0081	14	7	1
L1, 9	SN7410N	376-0003	14	7	2
L5,16,27	SN7442N	376-0008	16	8	3
L6,18,20,28	SN7475N	376-0013	5	12	4
L11	SN74121N	376-0051	14	7	1
L17	8570	376-0071	14	7	1
L19,26	9930	376-0022	14	7	2
L21	9935	376-0025	14	7	1
L2,3,22,23	9936	376-0026	14	7	4
L8,10	9946	376-0023	14	7	2

COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY.
R1 THRU 7	4.7K 1/4W	330-3047	7
R8	2.2K 1/4W	330-3022	1
R9	39K 1/4W	330-4039	1
R10	10K 1/4W	330-4010	1
C1, 2	.01 μF	300-1903	2
C3	390 pF	300-1390	1
C4	820 pF	300-1820	1
C5	.02 μF	300-1904	1
C6,8	.0047 μF	300-1910	2
C7	10 μF 15VDC	300-4018	1
C9,10	10 μF 16VDC	300-3006	2
C11 THRU 21	.05 μF	300-1900	11
D1	SIL. DIODE	380-1001	51
D2	GERMANIUM	380-0000	6

COMPONENT LAYOUT

REVISION	BY	DATE
A		

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
DO NOT USE ON	FIRST USED ON	ASSY USED ON			

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

MATERIAL — MODEL NO. 607/707 — SEE ENGR'G SPECIFICATIONS No.

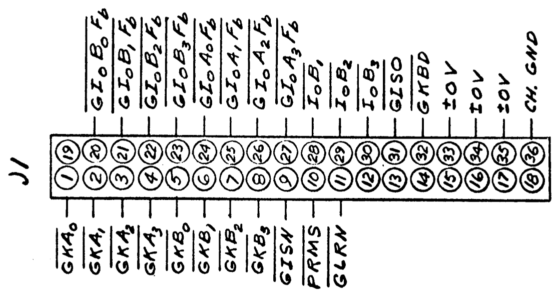
FINISH — TOL EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH 125

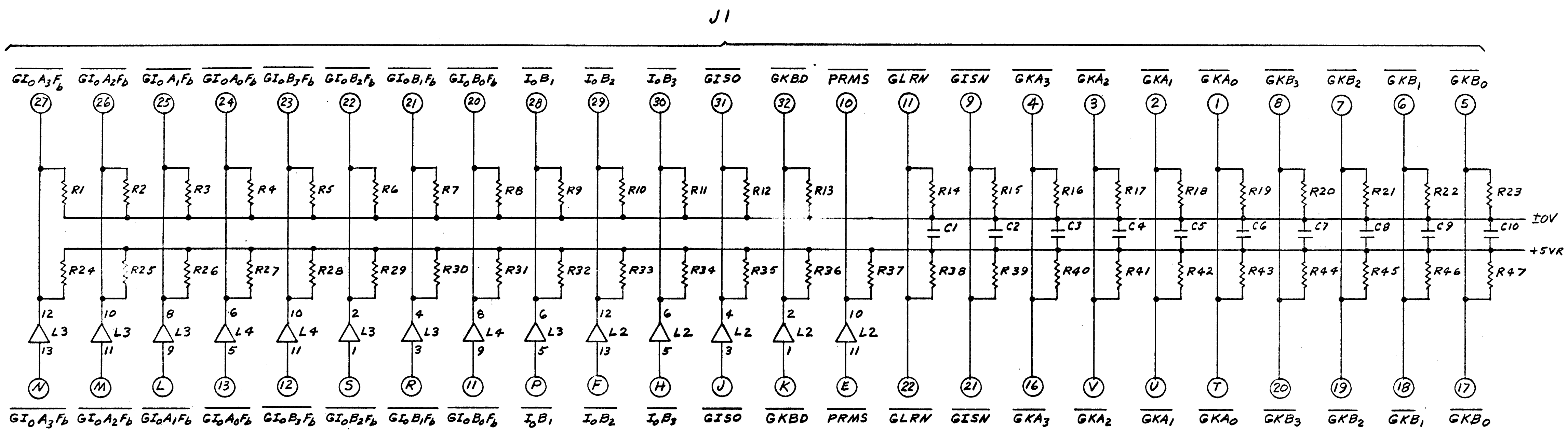
SCALE — SHT OF

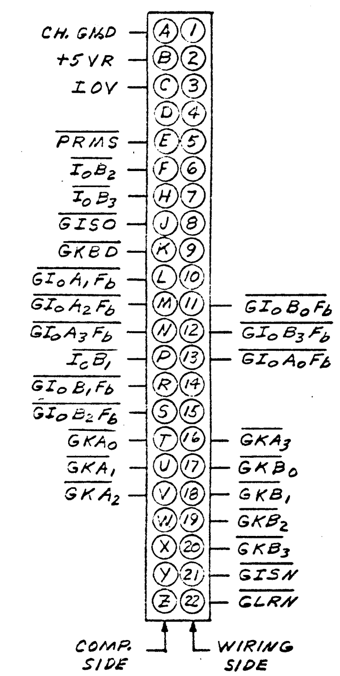
BY	DATE	APPROVED BY	DATE
DWN GK	11-X-72	E ENGR : EAW	11/17/72
CHK		M ENGR	
E C CONTROL		MFG ENGR	

TITLE SCHEMATIC LOGIBLOC 607/707 TO TELETYPE INTERFACE

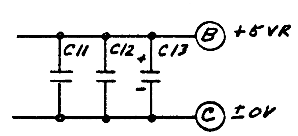
WANG PART NUMBER — E — SIZE — 6255-1 — DRAWING NUMBER — REV

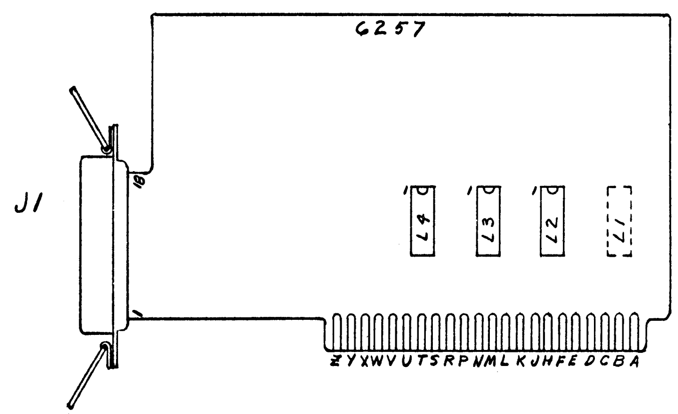






LOCATION	TYPE	W.L. PART NO.	TERM. No. ±OV	TERM. No. Vcc +5VR	QTY
L2,3,4	SN7407N	376-0056	7	14	3





COMPONENT	SIZE/TYPE	W.L. PART No	QTY
R1 THRU 13	330Ω 1/4W	330-2033	13
R24 THRU 37	220Ω 1/4W	330-2022	14
C1 THRU 12	.05 μf	300-1900	12
C13	15μf 20V	300-4022	1
J1	36 PIN CONN.	350-1038	1
R14 THRU 23	680Ω 1/4W	330-2068	10
R38 THRU 47	470Ω 1/4W	330-2047	10

NO	REVISION	DATE	BY
1	REVISED PER ECN #3525 APP'D: SKHO	2-21-73	

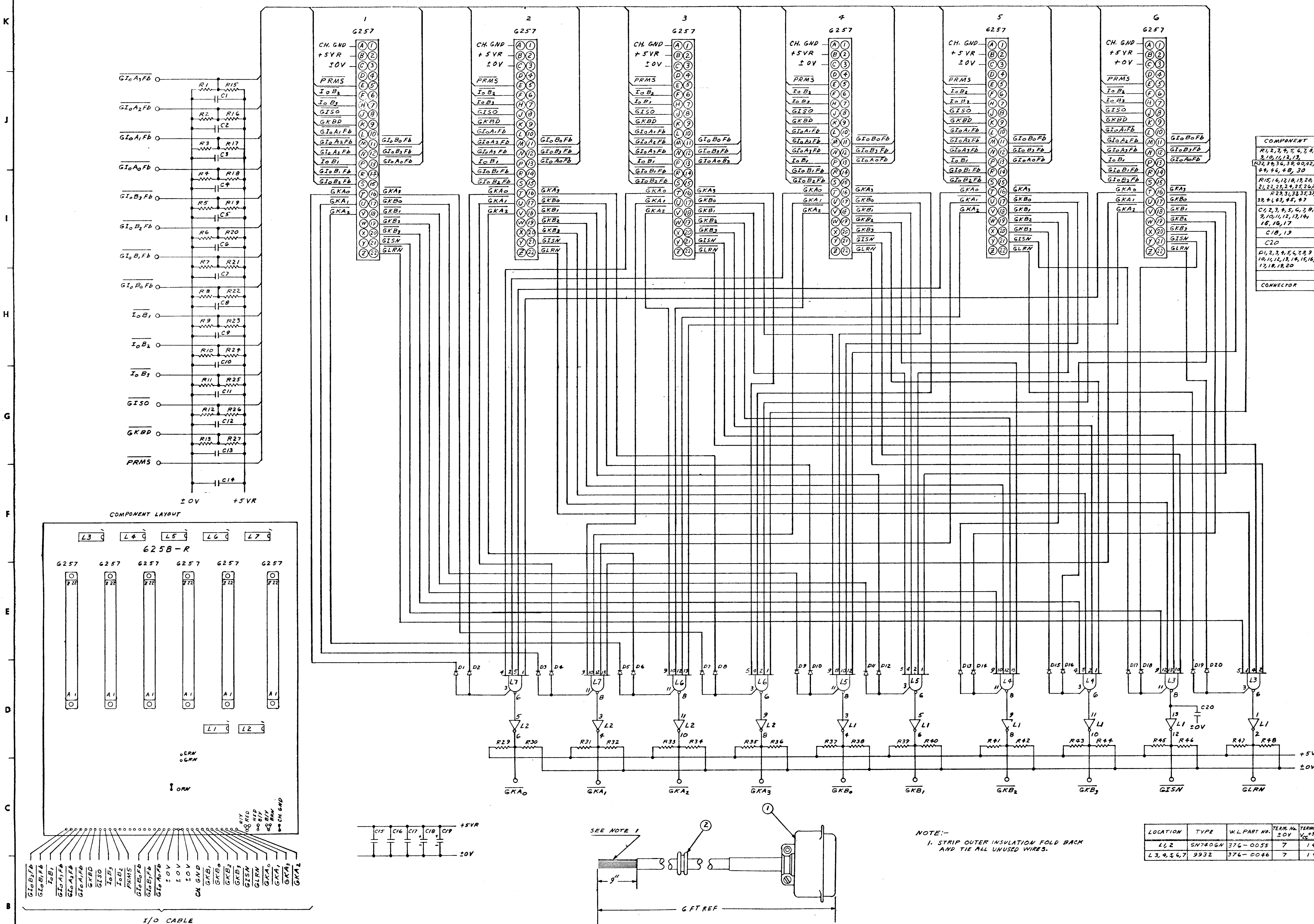
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 623/723	DRAWN	10/18/72	APP.	12/1/72
	CHECKED		APP.	

TITLE: SCHEMATIC LOGIBLOC #6257 I/O BUFFER CARD

SHT OF — DWG. NO. D 6257-1 — REV. 1

DO NOT SCALE



NOTE:-
1. STRIP OUTER INSULATION FOLD BACK AND TIE ALL UNUSED WIRES.

COMPONENT	SIZE/TYPE	W.L. PART No.	QTY
R1,2,3,4,5,6,7,8, 9,10,11,12,13,	680Ω 1/4W	330-2068	13
R32,34,36,38,40,42, 44,46,48,30	330Ω 1/4W	330-2033	10
R15,16,17,18,19,20, 21,22,23,24,25,26,27	470Ω 1/4W	330-2047	13
R29,31,33,35,37, 39,41,43,45,47	220Ω 1/4W	330-2022	10
C1,2,3,4,5,6,7,8, 9,10,11,12,13,14, 15,16,17	.05MF CER	300-1900	17
C18,19	15MF20V TANT	300-4022	2
C20	.02MF CER	300-1904	1
D1,2,3,4,5,6,7,8,9 10,11,12,13,14,15,16, 17,18,19,20	DIODE SIL.	380-1001	20
CONNECTOR	44 PIN	350-0021	6

I/O CABLE WIRING CHART

PIN NO.	WIRE NO.	SIG
1	1	GKA0
2	2	GKA1
3	3	GKA2
4	4	GKA3
5	5	GKB0
6	6	GKB1
7	7	GKB2
8	8	GKB3
9	9	GISN
10	10	PRMS
11	11	GLRN
12	12	
13	13	
14	14	
15	15	
16	16	
17	17	
18	18	
19	19	
20	20	GIoB0Fb
21	21	GIoB1Fb
22	22	GIoB2Fb
23	23	GIoB3Fb
24	24	GIoA0Fb
25	25	GIoA1Fb
26	26	GIoA2Fb
27	27	GIoA3Fb
28	28	IoB1
29	29	IoB2
30	30	IoB3
31	31	GISO
32	32	GKBD
33	33	±0V
34	34	±0V
35	35	±0V
36	36	CH. GND

LOCATION	TYPE	W.L PART No.	TERM. No. ±0V	TERM. No. Vcc +5VR	QTY
L1,2	SN7406N	376-0055	7	14	2
L3,4,5,6,7	9932	376-0046	7	14	5

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
654-1222	2	1	GROMMET		1/2 ID - 3/4 DIA. HOLE
220-2636-6	1	1	CABLE ASSEMBLY TYPE 2		SEE DWG. 6452-2

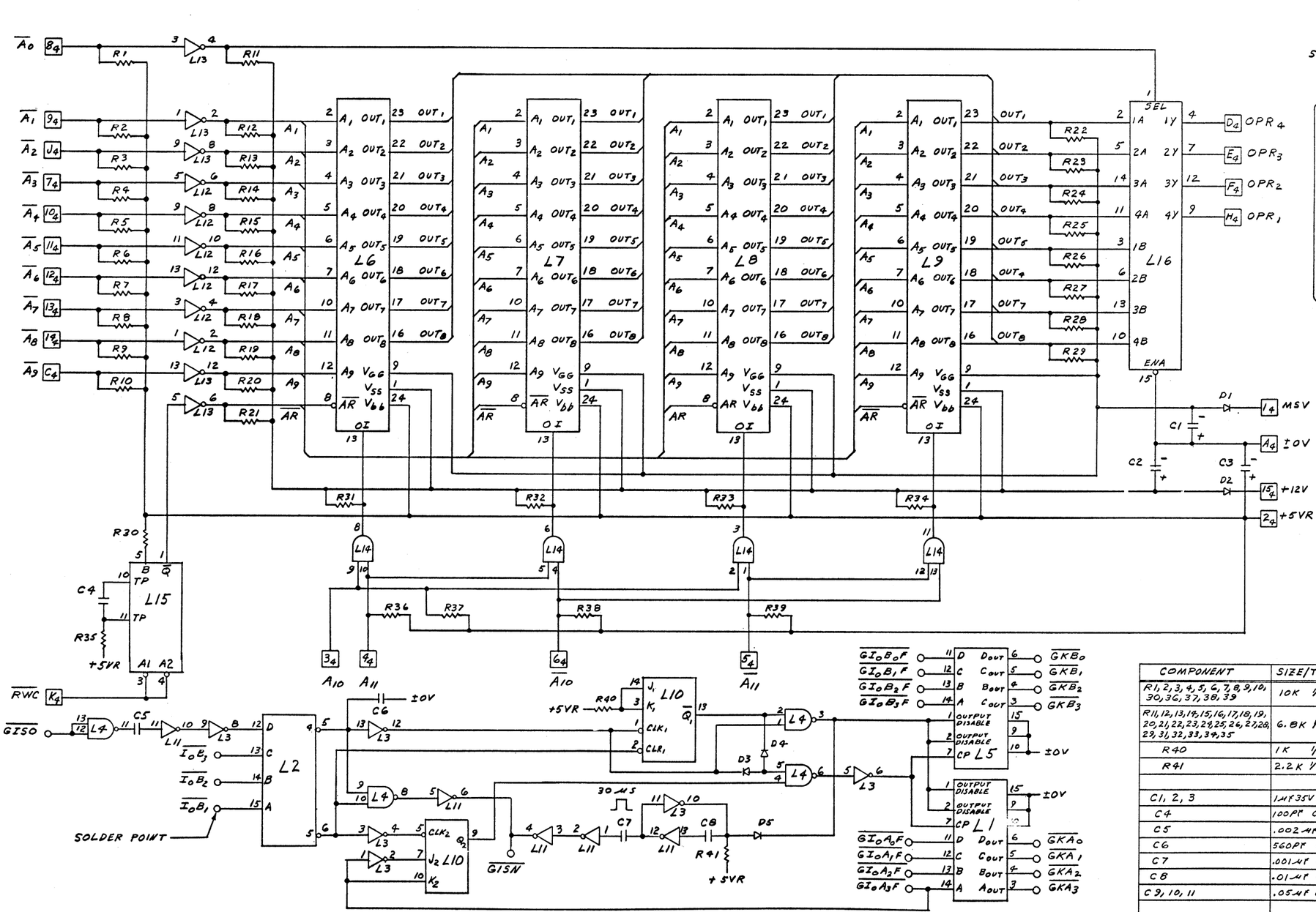
WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.

MODEL NO. 623/723

TITLE SCHEMATIC LOGIBLOC 6258 I/O BUFFER MOTHER BOARD

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

SIZE E — DRAWING NUMBER 6258-1 — REV 3



LOCATION	TYPE	W.L. PART No	TERM. No IOV	TERM. No Vcc +5VR	QTY
L1, 5	8551	376-0116	8	16	2
L2	SN7442N	376-0008	8	16	1
L3	9936	376-0026	7	14	1
L4	SN7400N	376-0002	7	14	1
L6	EA90136	377-0054	—	—	1
L7	EA90137	377-0055	—	—	1
L8	EA90145	377-0056	—	—	1
L9	EA90146	377-0057	—	—	1
L10	SN7473N	376-0005	11	4	1
L11	9935	376-0025	7	14	1
L12,13	SN7406N	376-0055	7	14	2
L14	SN7408N	376-0081	7	14	1
L15	SN74121N	376-0051	7	14	1
L16	SN74157N	376-0081	8	16	1

NOTE:-
1- FOR I/O CABLE SEE SHEET 2

COMPONENT	SIZE/TYPE	W.L. PART No	QTY
R1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 30, 36, 37, 38, 39	10K 1/4W	330-4010	15
R11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 31, 32, 33, 34, 35	6.8K 1/4W	330-3068	24
R40	1K 1/4W	330-3010	1
R41	2.2K 1/4W	330-3022	1
C1, 2, 3	1MF 35V TANT	300-4000	3
C4	100PF CER.	300-1100	1
C5	.002 MF CER.	300-	1
C6	560PF CER.	300-	1
C7	.001 MF CER.	300-	1
C8	.01 MF CER.	300-	1
C9, 10, 11	.05 MF CER	300-	3
D1, 2, 3, 4, 5	DIODE SIL.	380-1001	5

J4

±0V	A 1	MSV
	B 2	+5VR
	C 3	A10
OPR4	D 4	A11
OPR3	E 5	$\overline{A11}$
OPR2	F 6	$\overline{A10}$
OPR1	H 7	$\overline{A3}$
$\overline{A2}$	J 8	$\overline{A0}$
RWC	K 9	$\overline{A1}$
	L 10	$\overline{A4}$
	M 11	$\overline{A5}$
	N 12	$\overline{A6}$
	P 13	$\overline{A7}$
	R 14	$\overline{A8}$
	S 15	+12V

NO	REVISION	DATE
1	PER ECN # 3715 ADDED SHT 2 APP'D	8-2-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
600	CHECKED	11-10-72	APP.	11-11-72

TITLE SCHEMATIC LOGIBLOC 6268
USER R.O.M. WITH PRINT OUT

SHT 1 OF 2 | DWG. NO. D 6268-1 | REV. 1

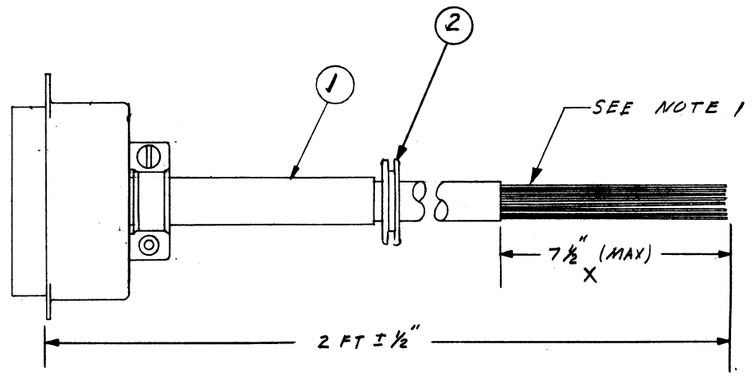
SHEET 2 OF 2 OF THIS DWG. "C" SIZE

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		

SIGNAL	WIRE NO.	PIN NO.	DIM. "X"	SIGNAL	WIRE NO.	PIN NO.	DIM. "X"
$\overline{GKA_0}$	1	1	5 1/2	—	19	19	
$\overline{GKA_1}$	2	2	6	$\overline{GI_0B_0F}$	20	20	4 1/2
$\overline{GKA_2}$	3	3	6 1/2	$\overline{GI_0B_1F}$	21	21	4 1/2
$\overline{GKA_3}$	4	4	7	$\overline{GI_0B_2F}$	22	22	5
$\overline{GKB_0}$	5	5	4	$\overline{GI_0B_3F}$	23	23	5
$\overline{GKB_1}$	6	6	4	$\overline{GI_0A_0F}$	24	24	6
$\overline{GKB_2}$	7	7	4	$\overline{GI_0A_1F}$	25	25	6
$\overline{GKB_3}$	8	8	4 1/2	$\overline{GI_0A_2F}$	26	26	6 1/2
$\overline{GISN}$	9	9	7 1/2	$\overline{GI_0A_3F}$	27	27	6 1/2
—	10	10		$\overline{I_0B_1}$	28	28	7 1/2
—	11	11		$\overline{I_0B_2}$	29	29	7
—	12	12		$\overline{I_0B_3}$	30	30	7
—	13	13		$\overline{GIS_0}$	31	31	7 1/2
—	14	14		—	32	32	
—	15	15		±0V	33	33	5
—	16	16		±0V	34	34	5 1/2
—	17	17		±0V	35	35	5 1/2
—	18	18		—	36	36	



NOTE:—

1. STRIPPING OF OUTER INSULATION TO BE DONE PRIOR INSTALLING INTO UNIT, SEE CHART FOR WIRE LENGTH.
2. FOLD BACK ALL UNUSED WIRES AND TIE

WANG PART NO.	ITEM	QTY.	NAME	MATERIAL	DESCRIPTION
654-1212	2	1	GROMMET		5/16 I.D FOR 7/16 HOLE
220-2636-2	1	1	CABLE ASS'Y TYPE 2		SEE DWG. C6482-2

Qty. Per Unit	FIRST USED ON	ASSY USED ON
1		

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

	BY	DATE	APPROVED BY	DATE
DWN	F.E. SOUSA	3 OCT 72	E ENGR	
CHK			M ENGR	
E. C. CONTROL			MFG ENGR	ACD 11-9-72

MATERIAL

MODEL NO. 600

SEE ENGRG SPECIFICATIONS No.

FINISH

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

SCALE NONE | SHT 2 OF 2

TITLE PRINTER CABLE

220-2636-2	C	6268-1	1
WANG PART NUMBER	SIZE	DRAWING NUMBER	REV

NO.	REVISION	BY	DATE

DO NOT SCALE

COMPONENT LAYOUT 6272

LOCATION	TYPE	W.L. PART No.	TERM. No V_{CC} +5VR	TERM. No IOV	QTY
L1,10,24	MC 840P	376-0025	14	7	3
L18,26	MC 846P	376-0023	14	7	2
L3	1800P	376-0062	14	7	1
L4,5,13,19,22	SN7400N	376-0002	14	7	5
L6,18,27	9602	376-0104	16	8	3
L7	MC 862	376-0034	14	7	1
L8,15	9935	376-0025	14	7	2
L9	9946	376-0023	14	7	1
L16	MC 836	376-0026	14	7	1
L20,21,12	1804P	376-0079	14	7	3
L23,25	SN74121N	376-0051	14	7	2
L17	9935	376-0025	14	7	1
L2,11	SN7403N	376-0028	14	7	2

COMPONENT	SIZE/TYPE	W.L. PART No.	QTY
R1 THRU12, 16 R18 THRU 24	4.7K ¼W	330-3047	20
R13,14,15,17	10K ¼W	330-4010	4
R25,26,27,30,32,33	33K ¼W	330-4033	6
R28,35	47K ¼W	330-4047	2
R29,34	2.2K ¼W	330-3022	2
R36,37	6.8K ¼W	330-3068	2
C1, 2,3	.1 MF CER	300-1918	3
C4 THRU 21,28,29, 30,31,41 THRU 51	.05 MF CER	300-1900	36
C22,23	2.2 MF 20V	300-4014	2
C25,33,34,35,36,37	.01 MF CER	300-1903	6
C24,27	1.2 MF 35V	300-4013	2
C26	33 MF 15V	300-4019	1
C32,38	1 MF 35V	300-4000	2
C39	5.6 MF 15V	300-4017	1
C40,52	15 MF 20V	300-3007	2
D1 THRU 20,23,24	S/L DIODE	380-1001	22
D21,22	GER DIODE	380-0000	2

NO.	REVISION	BY	DATE
1	PER ECN 32 69 ADDED D23 DIODE APP:D SKHO	DB	10-2-72
2	PER ECN 3295 L17 WAS 9936 APP:D SKHO	DB	10-11-72
3	PER ECN 3396 ADDED D24 + AND CIRCUIT APP:D SKHO	DB	11-21-72
4	PER ECN #3436 L2,11 WAS 846 ADDED R36,37 APP:D SKH	DB	12-18-72
5	REVISED PER ECN # 0347 APP:D	DB	8-22-73

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

1st HALF

SDW	A/1	$\overline{R_1}$
+5VR	B/2	
IOV	C/3	
C. TAB (M.C.)	D/4	WT ∝
TO L518-A_1	E/5	$\overline{R_2}$
TO L518-I_3	F/6	$\overline{T_1}$
TO L518-2_2	H/7	$\overline{T_2}$
$\overline{R_{2A}}$	J/8	$\overline{R_5}$
BK. SP (M.Q.)	K/9	END ∝ (M.Q.)
C. TAB (M.Q.)	L/10	C. TAB (C)
SR_2 (M.Q.)	M/11	$\overline{GO}$
ST_1 (M.Q.)	N/12	TO L518-15_2
SR_{2A} (M.Q.)	P/13	TO L518-P_2
UP (M.Q.)	R/14	TO L518-R_2
TAB (M.Q.)	S/15	TAB (C)

2nd HALF

S. TAB (M.Q.)	A/1	S. TAB (C)
RTN (M.Q.)	B/2	ST_2 (M.Q.)
IDX (M.Q.)	C/3	I/O PRIME
SR_2 (M.Q.)	D/4	PCC (M.Q.)
SR_1 (M.Q.)	E/5	GO (M.Q.)
DN (M.Q.)	F/6	SP (M.Q.)
R/B'	H/7	SHIFT DRIVER INPUT / OUTPUT
TO L518-B_2	J/8	
TO L518-9,	K/9	FROM L518-7_2
KA_2	L/10	S. TAB (M.C.)
C5-10	M/11	OUTPUT / INPUT
±OV	N/12	SHIFT F-F
	P/13	IOV
	R/14	+5VR
SUP	S/15	TAB (M.C.)

COMP. SIDE — WIRING SIDE

210
510-6272

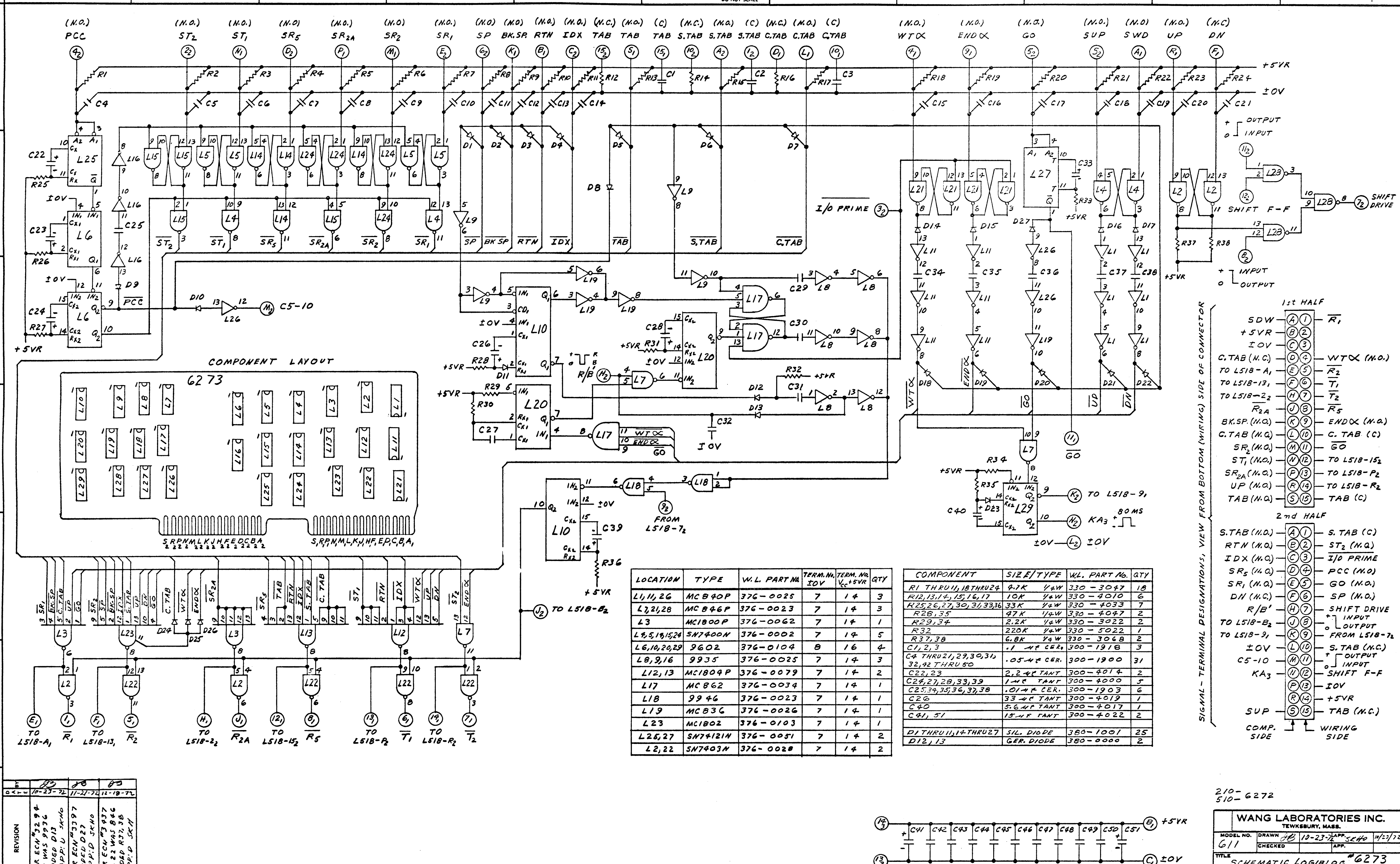
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	CHECKED	APP.	APP.	
711	SKH			SKHO	9/14/72

TITLE: SCHEMATIC LOGIBLOC DECODING SECTION

6272

SHT OF | DWG. NO. D 6272-1 | REV. 5



LOCATION	TYPE	W.L. PART No.	TERM. No. ±OV	TERM. No. V_{cc} +5VR	QTY
L1, 11, 26	MC840P	376-0025	7	14	3
L7, 21, 28	MC846P	376-0023	7	14	3
L3	MC1800P	376-0062	7	14	1
L4, 5, 14, 15, 24	SN7400N	376-0002	7	14	5
L6, 10, 20, 29	9602	376-0104	8	16	4
L8, 9, 16	9935	376-0025	7	14	3
L12, 13	MC1804P	376-0079	7	14	2
L17	MC862	376-0034	7	14	1
L18	9946	376-0023	7	14	1
L19	MC836	376-0026	7	14	1
L23	MC1802	376-0103	7	14	1
L25, 27	SN74121N	376-0051	7	14	2
L2, 22	SN7403N	376-0028	7	14	2

COMPONENT	SIZE/TYPE	W.L. PART No.	QTY
R1 THRU 11, 18 THRU 24	4.7K 1/4W	330-3047	18
R12, 13, 14, 15, 16, 17	10K 1/4W	330-4010	6
R25, 26, 27, 30, 31, 33, 36	33K 1/4W	330-4033	7
R28, 35	47K 1/4W	330-4047	2
R29, 34	2.2K 1/4W	330-3022	2
R32	220K 1/4W	330-5022	1
R37, 38	6.8K 1/4W	330-3068	2
C1, 2, 3	.1 μf CER.	300-1918	3
C4 THRU 21, 29, 30, 31, 32, 42 THRU 50	.05 μf CER.	300-1900	31
C22, 23	2.2 μf TANT	300-4014	2
C24, 27, 28, 33, 39	1 μf TANT	300-4000	5
C25, 34, 35, 36, 37, 38	.01 μf CER.	300-1903	6
C26	33 μf TANT	300-4019	1
C40	5.6 μf TANT	300-4017	1
C41, 51	15 μf TANT	300-4022	2
D1 THRU 11, 14 THRU 27	SIL. DIODE	380-1001	25
D12, 13	GER. DIODE	380-0000	2

210- 510- 6272

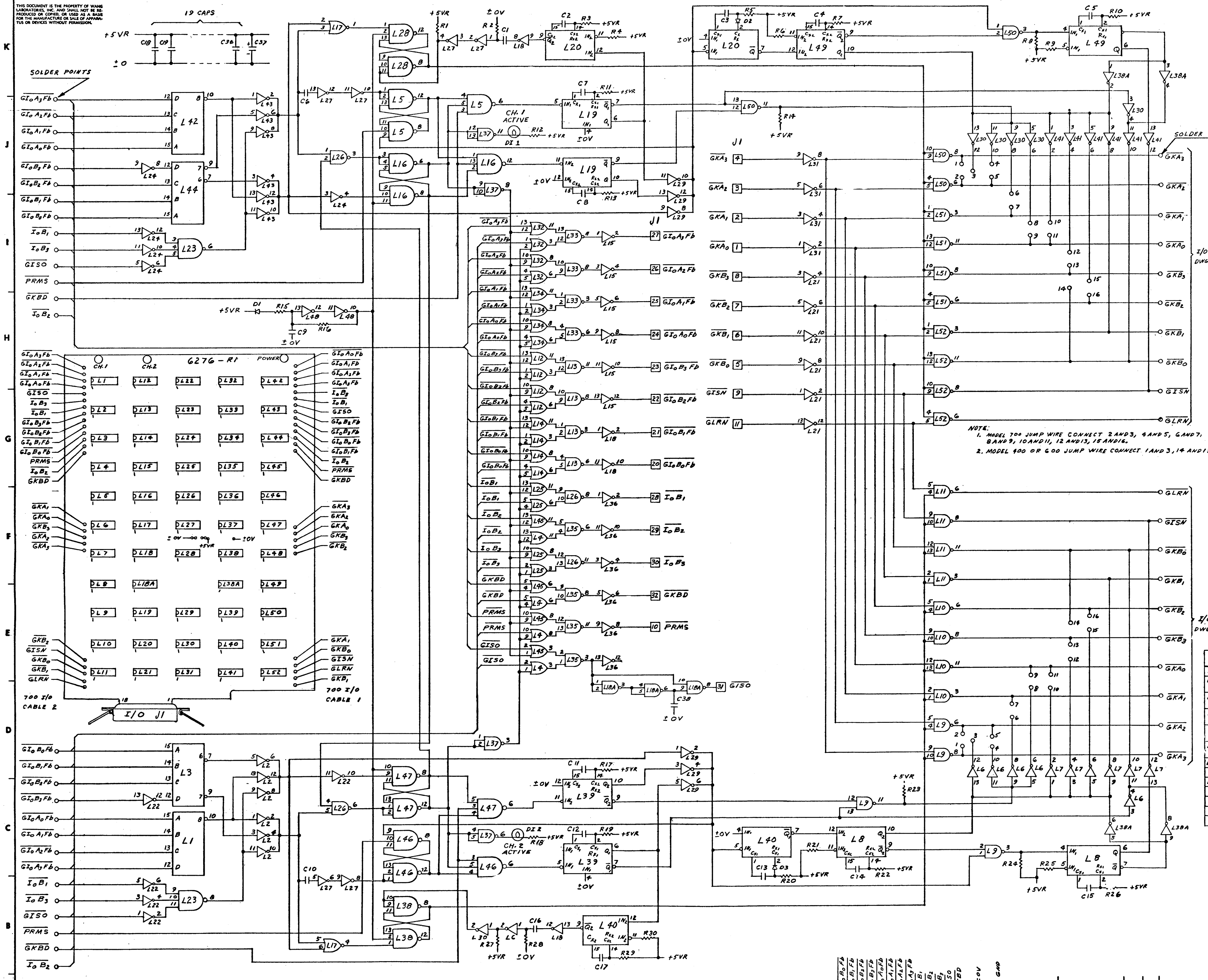
NO.	REVISION	DATE	BY
1	PER ECN #3292 L9 WAS 9936 ADDED D13 APP'D SKHO	10-23-72	JB
2	PER ECN #3397 ADDED D27 APP'D SKHO	11-21-72	JB
3	PER ECN #3437 L2, 22 WAS 846 ADDED R37, 38 APP'D SKH	12-18-72	JB

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
611	JB	10-23-72	SKHO	10/23/72
	CHECKED		APP.	

TITLE: SCHEMATIC LOGIBLOC #6273 CONTACT DECODING INPUT SECTION

SHT OF — DWG. NO. D 6273-1 — REV. 3



NOTE:
1. MODEL 700 JUMP WIRE CONNECT 2 AND 3, 4 AND 5, 6 AND 7, 8 AND 9, 10 AND 11, 12 AND 13, 15 AND 16.
2. MODEL 400 OR 600 JUMP WIRE CONNECT 1 AND 3, 14 AND 15

COMPONENT	SIZE/TYPE	W.L. PART No.	QTY
R1,2,4,6,8,9,14 21,23,24,25,27,28,30	10K 1/4W	330-4010	14
R3,5,20,29	27K 1/4W	330-4027	4
R7,10,11,13,17, 19,22,26	22K 1/4W	330-4022	8
R12,18	10Ω 1/4W	330-1010	2
R15	100Ω 1/4W	330-2010	1
R16	6.8K 1/4W	330-3068	1
C1,6,10,16	.01 μf CER	300-1903	4
C2,17	.0056 μf CER	300-1915	2
C3,13	.56 μf TANT	300-4010	2
C4,7,8,11,12,14	.003 μf CER	300-1905	6
C5,15	.001 μf CER	300-1906	2
C9	.22 μf CER	300-1902	1
C18,19,20,21,22,23, 24,25,26,27,28,29, 30,31,32,33,34,35,36	.05 μf CER	300-1900	19
C37	10 μf 35V TANT	300-4032	1
C38	.02 μf CER	300-1904	1
D1,2,3	DIODE SIL	380-1001	3
J1	57-40360	350-1026	1

LOCATION	TYPE	W.L. PART No.	TERM. No. ±OV	TERM. No. Vcc +5VR	QTY
L1,3,42,44	SN7442N	376-0008	8	16	4
L2,6,7,29,30, 41,43	9936	376-0026	7	14	7
L4,12,14,25 32,34,45	SN7432N	376-0093	7	14	7
L5,16,23,28, 38,46,47	SN7410N	376-0003	7	14	7
L8,19,20,39, 40,49	9602	376-0104	8	14	6
L9,10,11,50,51, 52	9946	376-0023	7	14	6
L13,26,33,35,18A	SN7400N	376-0002	7	14	5
L17	SN7402N	376-0016	7	14	1
L21,22,24,31,48	SN7404N	376-0010	7	14	5
L27	9935	376-0025	7	14	1
L37	SN7437N	376-0068	7	14	1
L15,18,36	SN7404N	376-0002	7	14	3
L38A	SN7406N	376-0055	7	14	1

WANG PART NO.	ITEM	QTY.	NAME	MATERIAL	DESCRIPTION

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

BY	DATE	APPROVED BY	DATE
DWN JB	2-6-73	E ENGR	2-26-73
CHK		M ENGR	
E. C. CONTROL		MFG ENGR	

MODEL NO. 724/624

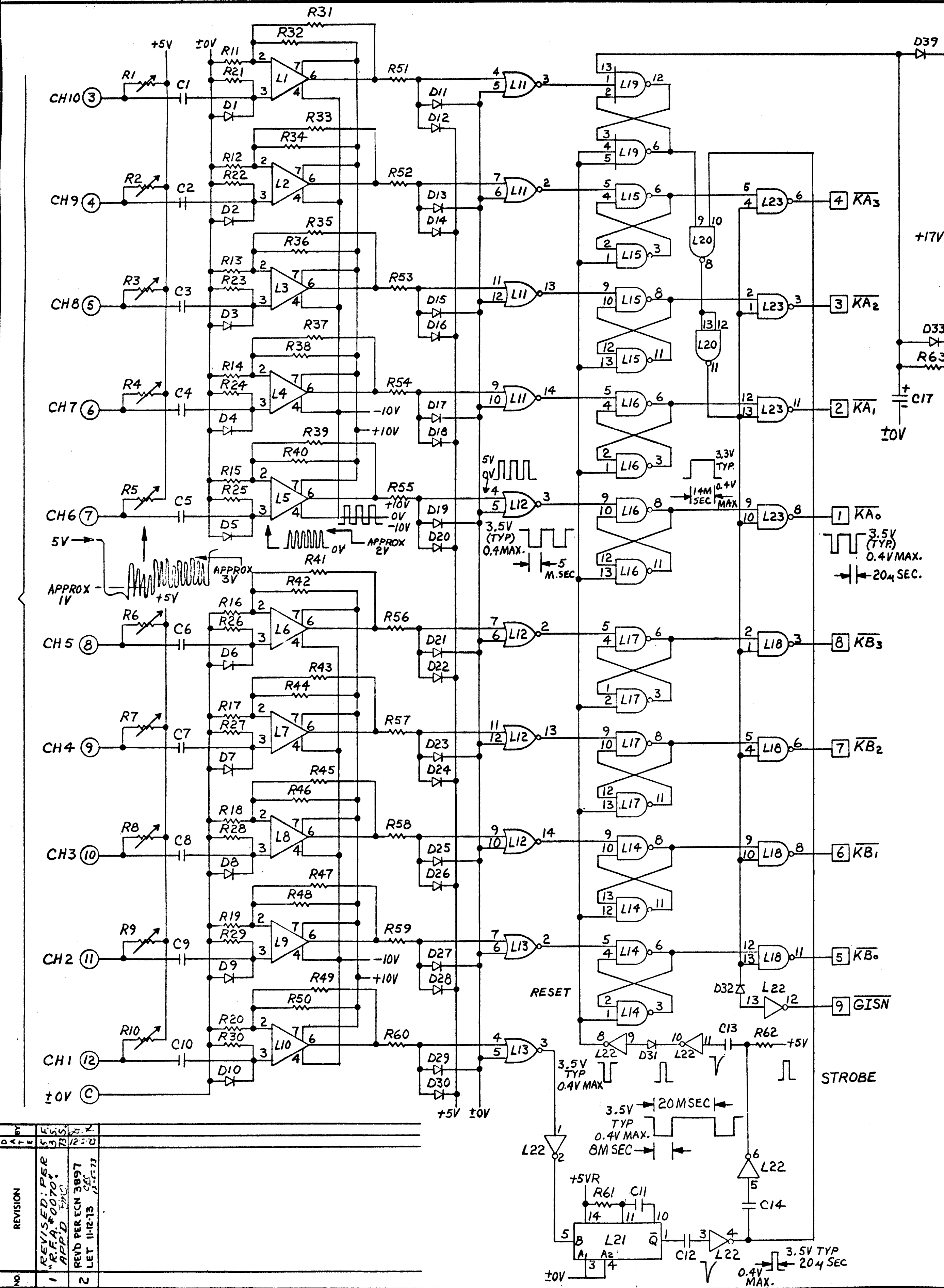
SEE ENGRG SPECIFICATIONS No.

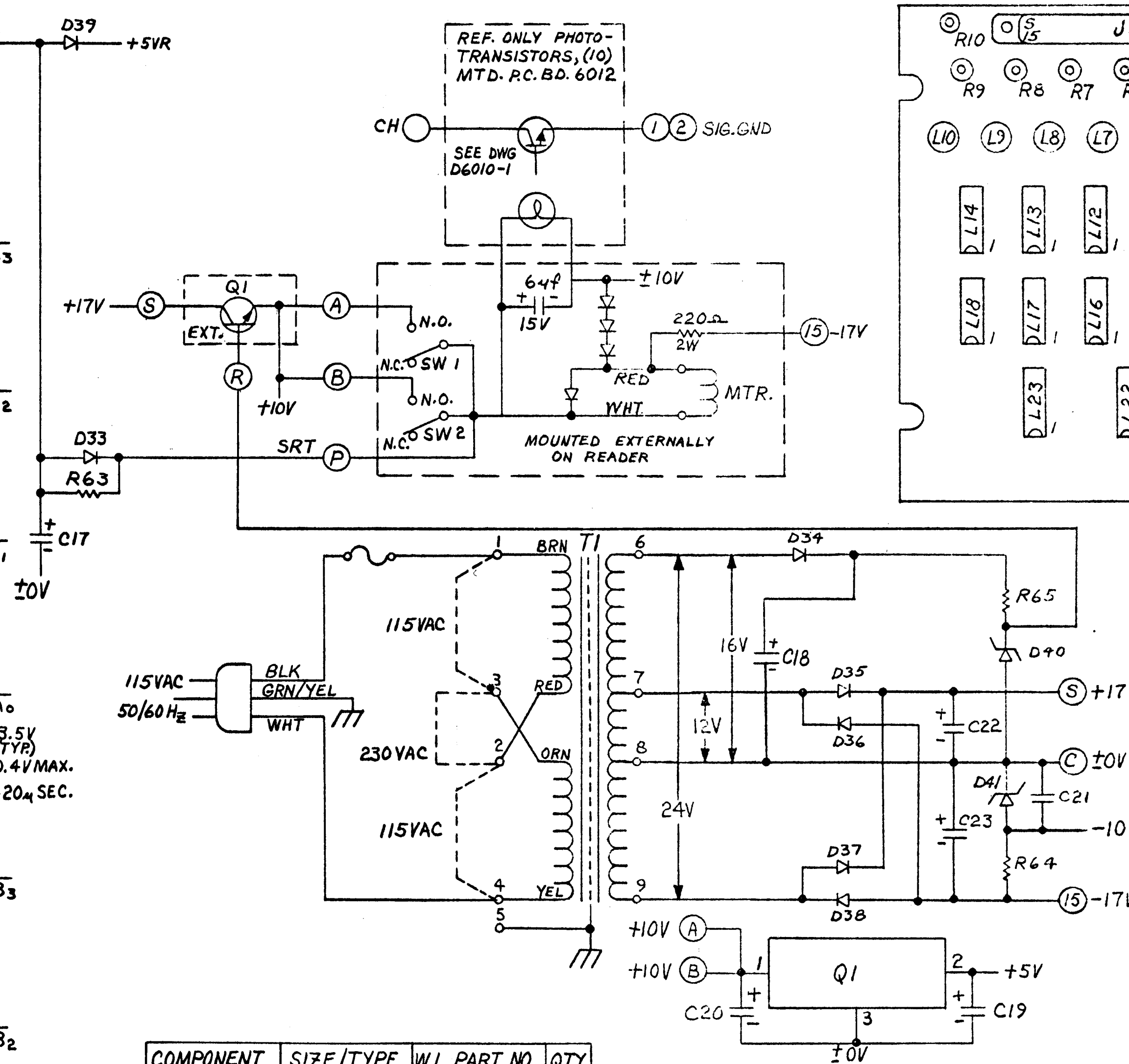
TOL. EX. AS NOTED .XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1°30' FINISH 125 √

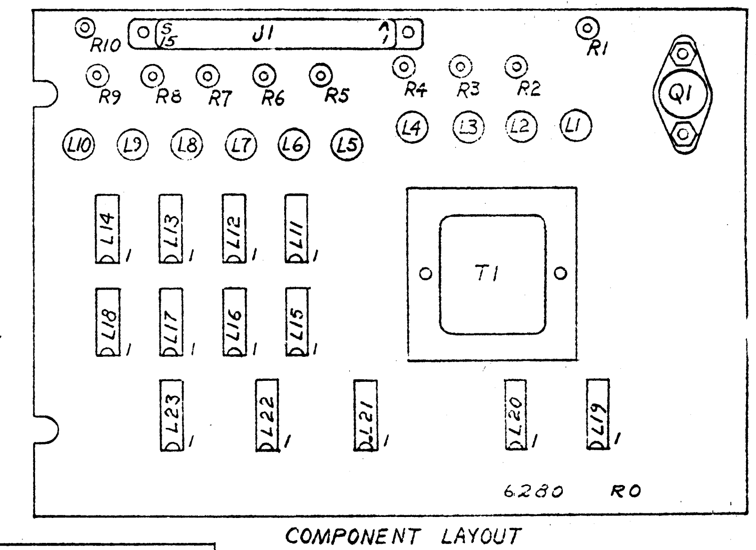
SCALE SHT 1 OF 1

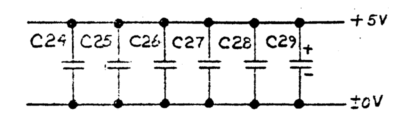
TITLE SCHEMATIC LOGIBLOC 6276 DUAL CHANNEL MULTIPLEXER

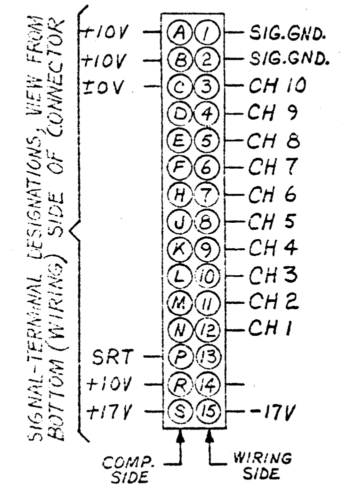
WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.
210-6276	E	6276-1	5











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	1N962B	380-2126	1
D41	1N758A	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

NO.	REVISION	DATE	BY
1	REVISED PER "REA" #0070; APP'D	3-5-73	
2	REVD PER ECN 3897 SEC LET 11-12-73	12-22	

WANG LABORATORIES INC.
TEWKSBURY, MASS.

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

TITLE: SCHEMATIC LOGIBLOC
400 & 2214 MARK SENSE CARD READER

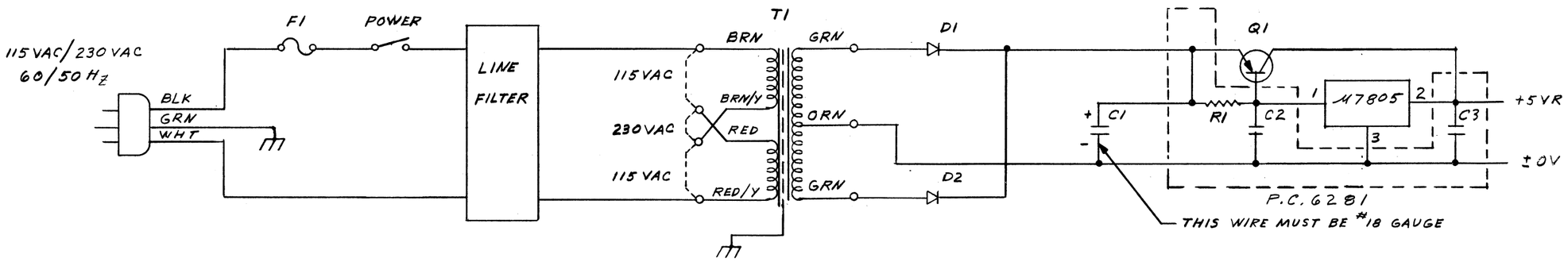
SHT OF — DWG. NO. D 6280-1 — REV. 1

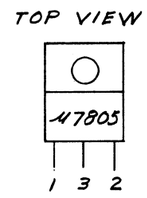
DO NOT SCALE

DO NOT SCALE

HOLE LEGEND		
DRILLED OR PUNCHED HOLE TOLERANCES:	HOLE DIA.	TOL.
	.0135 to .125	$\pm\frac{.003}{.001}$
	.126 to .250	$\pm\frac{.004}{.001}$
	.251 to .500	$\pm\frac{.005}{.001}$

IDENT.	DESCRIPTION	QTY.
A		





COMP	SIZE/TYPE	W.L. PART NO	QTY
R1	2.7Ω ½W	331-0027	1
C1	14K MF 15V	300-3045	REF
C2	.22 MF CER	300-1902	1
C3	.1 MF CER	300-1901	1
D1, 2	IN4719	380-3002	REF
Q1	40831	375-1030	REF
T1	MMC4792	410-0080	REF
	U7805	374-0001	REF
F1	.6A	360-1006	REF
LINE FILTER	2AMP LINE FILTER	910-2001	REF

NO.	REVISION	BY	DATE
1	PER ECN #3556 REMOVED GND FROM FILTER APP'D.	[illegible]	4-30-73
2	PER ECN #3693 R1 WAS 1/4W APP'D SKH	SKH	6-20-73
3	REVISED PER RFA #0531 APP'D SKH	SKH	11-16-73

WANG PART NO.	ITEM	QTY.	NAME
Qty. Per Unit / FIRST USED ON / ASSY USED ON			

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

MATERIAL

MODEL NO. 723/724

SEE ENGRG SPECIFICATIONS No.

FINISH

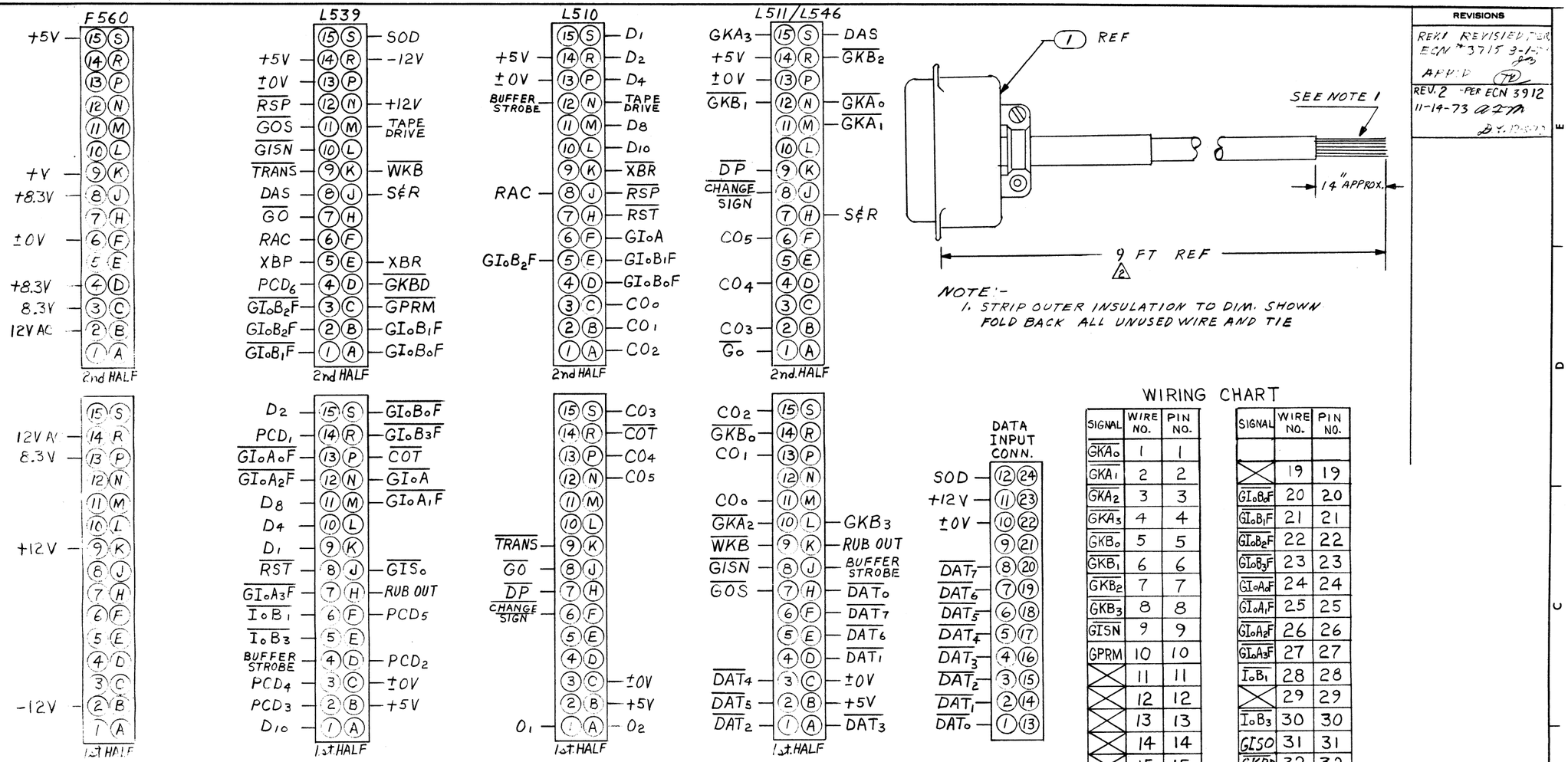
TOL. EX. AS NOTED
.XX ± .010 FRAC. ± 1/64
.XXX ± .005 ANG. ± 1°30' FINISH 128 V

SCALE | SHT | OF

MATERIAL	DESCRIPTION			
BY	DATE	APPROVED BY	DATE
DWN JB	12/28/72	E ENGR J.C.V.	1-19-73
CHK		M ENGR	
E. C. CONTROL		MFG ENGR	

TITLE BUFFER SCHEMATIC POWER SUPPLY 6281

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
	C	6281-1	3



WIRING CHART

SIGNAL	WIRE NO.	PIN NO.
$\overline{GKA_0}$	1	1
$\overline{GKA_1}$	2	2
$\overline{GKA_2}$	3	3
$\overline{GKA_3}$	4	4
$\overline{GKB_0}$	5	5
$\overline{GKB_1}$	6	6
$\overline{GKB_2}$	7	7
$\overline{GKB_3}$	8	8
$\overline{GISN}$	9	9
GPRM	10	10
	11	11
	12	12
	13	13
	14	14
	15	15
	16	16
	17	17
	18	18

SIGNAL	WIRE NO.	PIN NO.
	19	19
$\overline{GIoB_0F}$	20	20
$\overline{GIoB_1F}$	21	21
$\overline{GIoB_2F}$	22	22
$\overline{GIoB_3F}$	23	23
$\overline{GIoA_0F}$	24	24
$\overline{GIoA_1F}$	25	25
$\overline{GIoA_2F}$	26	26
$\overline{GIoA_3F}$	27	27
$\overline{IoB_1}$	28	28
	29	29
$\overline{IoB_3}$	30	30
GISO	31	31
$\overline{GKBD}$	32	32
	33	33
	34	34
	35	35
	36	36

REVISIONS

REV.1 REVISED PER ECN #3715 3-1-73 APP'D

REV. 2 -PER ECN 3912 11-14-73

ITEM NO.	W.L. PART NO.	NAME	DESCRIPTION	QTY.
5	210-6284	P/C BOARD	6284	1
4	350-0011	P.C. CONN.	#225-21521-110	3
3	350-1025	DATA INPUT CONN.	#57-10240-1	1
2	660-0202	SOLDER	63-37 ALLOY	A/R
2 1	220-2636-9	CABLE ASSY	SEE DWG. C6132-2	1

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

MATERIAL

FINISH

SCALE

WANG LABORATORIES INC. TEWKSBURY, MASS.

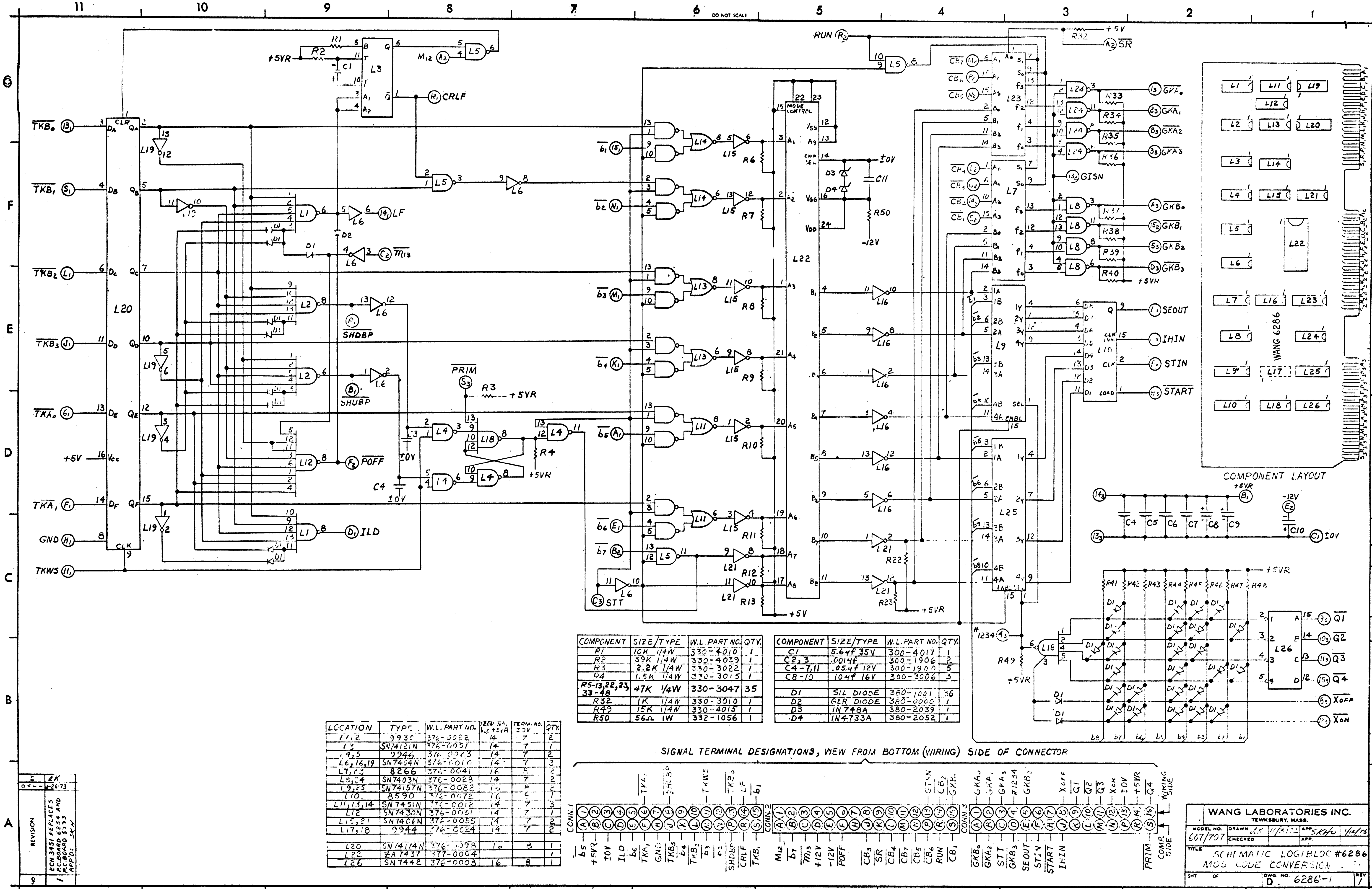
MODEL NO. 703 | DRAWN BK 3-12-73 | APP. | CHECKED | APP.

TITLE: SCHEMATIC LOGIBLOC #6284 MOTHER BOARD

W.O. NO.

DWG. NO. C 6284-1 REV. 2

DWG. NO. C



COMPONENT	SIZE/TYPE	W.L PART NO.	QTY.
R1	10K 1/4W	330-4010	1
R2	39K 1/4W	330-4039	1
R3	2.2K 1/4W	330-3022	1
D4	1.5K 1/4W	330-3015	1
R5-13,22,23, 33-48	47K 1/4W	330-3047	35
R32	1K 1/4W	330-3010	1
R49	15K 1/4W	330-4015	1
R50	56Ω 1W	332-1056	1

COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY.
C1	5.6μf 35V	300-4017	1
C2,3	.001μf	300-1906	2
C4-7,11	.05μf 12V	300-1900	5
C8-10	10μf 16V	300-3006	3
D1	SIL DIODE	380-1001	36
D2	GER DIODE	380-0000	1
D3	IN748A	380-2039	1
D4	IN4733A	380-2052	1

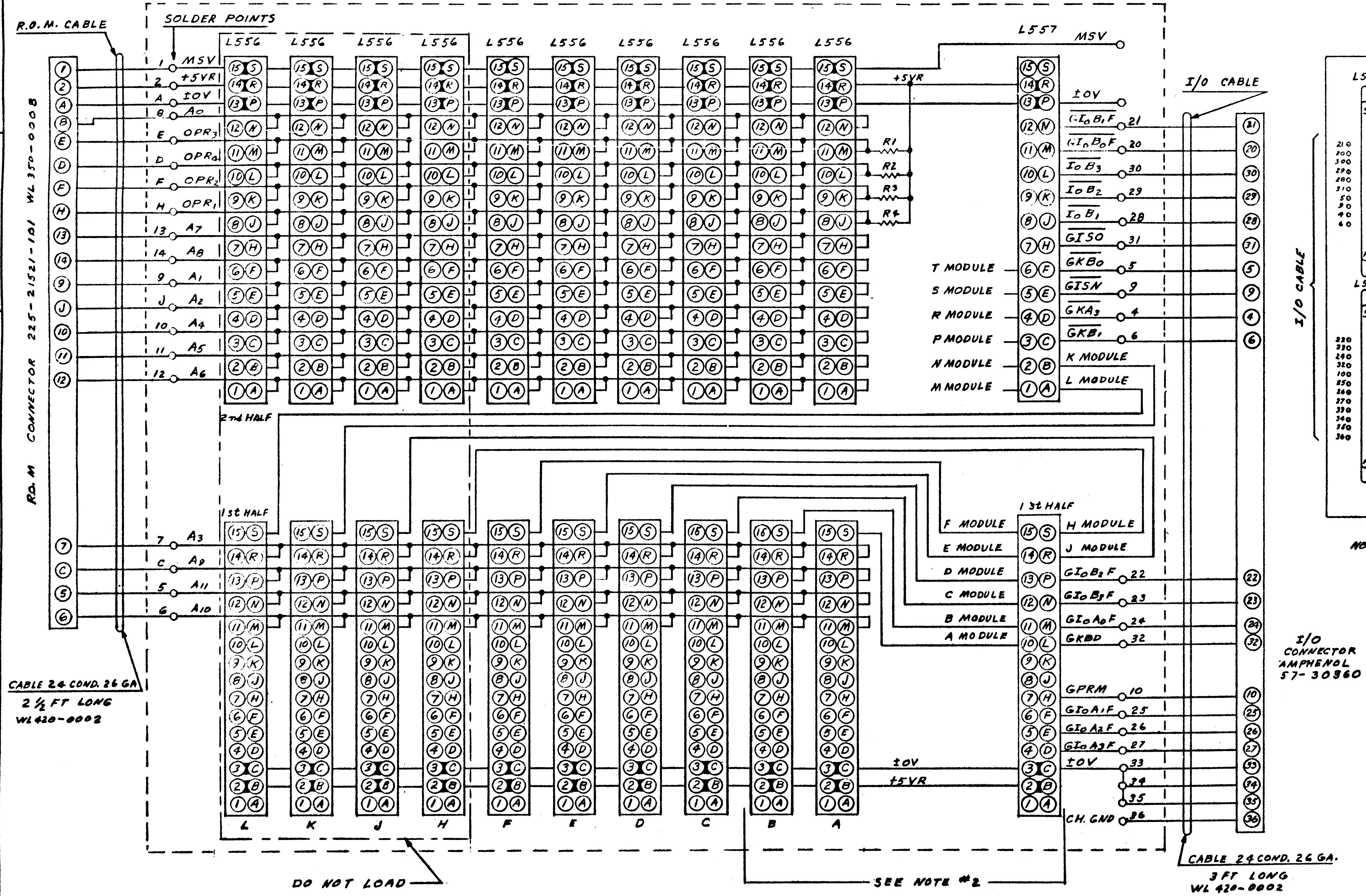
LOCATION	TYPE	W.L. PART NO.	TERM. NO. Vcc +5VR	TERM. NO. ±0V	QTY.
L1,2	9930	376-0022	14	7	2
L3	SN74121N	376-0051	14	7	1
L4,5	9946	376-0023	14	7	2
L6,16,19	SN7404N	376-0010	14	7	3
L7,23	8266	376-0041	16	8	2
L8,24	SN7403N	376-0028	14	7	2
L9,25	SN74157N	376-0082	16	8	2
L10	8590	376-0072	16	8	1
L11,13,14	SN7451N	376-0012	14	7	3
L12	SN7430N	376-0031	14	7	1
L15,21	SN7406N	376-0055	14	7	2
L17,18	9944	376-0024	14	7	2
L20	SN74174N	376-0098	16	8	1
L22	ZA7437	377-0004			1
L26	SN7442	376-0008	16	8	1

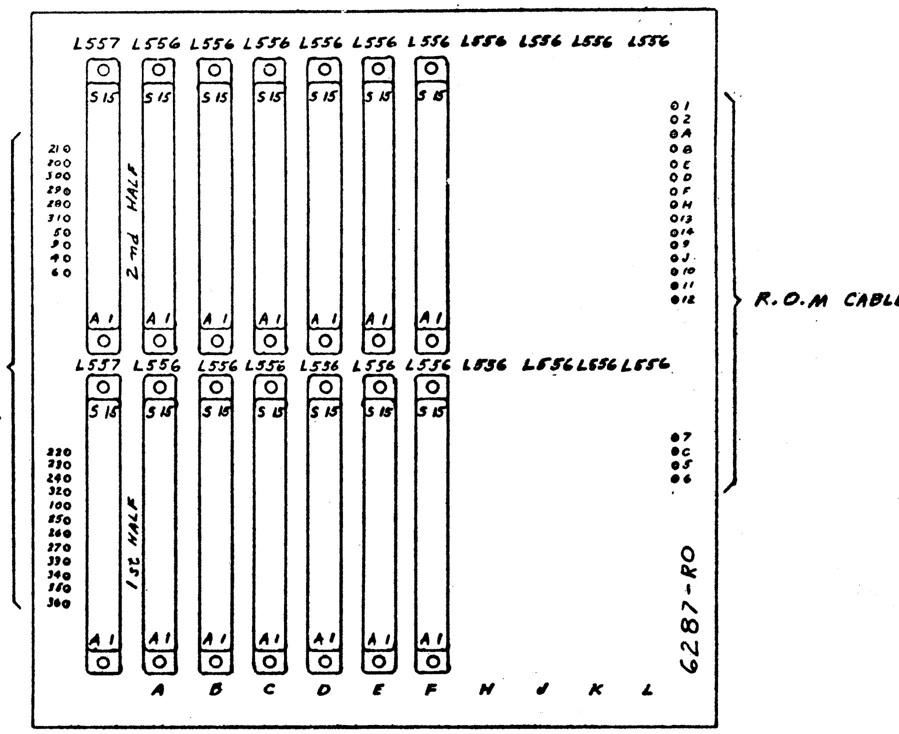
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
607/707	ZK	11/3/72	SKHO	1/12/73
	CHECKED		APP.	

TITLE: SCHEMATIC LOGIBLOC #6286 MOS CODE CONVERSION

SHT OF — DWG. NO. D 6286-1 — REV 1





NOTE:

1. CONNECTOR (225-21521-110) W.L. 350-0011 22 PLACES
2. 628/FAB ONLY THREE ROWS OF SOCKETS IS LOADED I.E. L557 & A, B OF L556.
3. R1, 2, 3, 4 – 470Ω ¼W WL. 330-2047 (4 QTY)

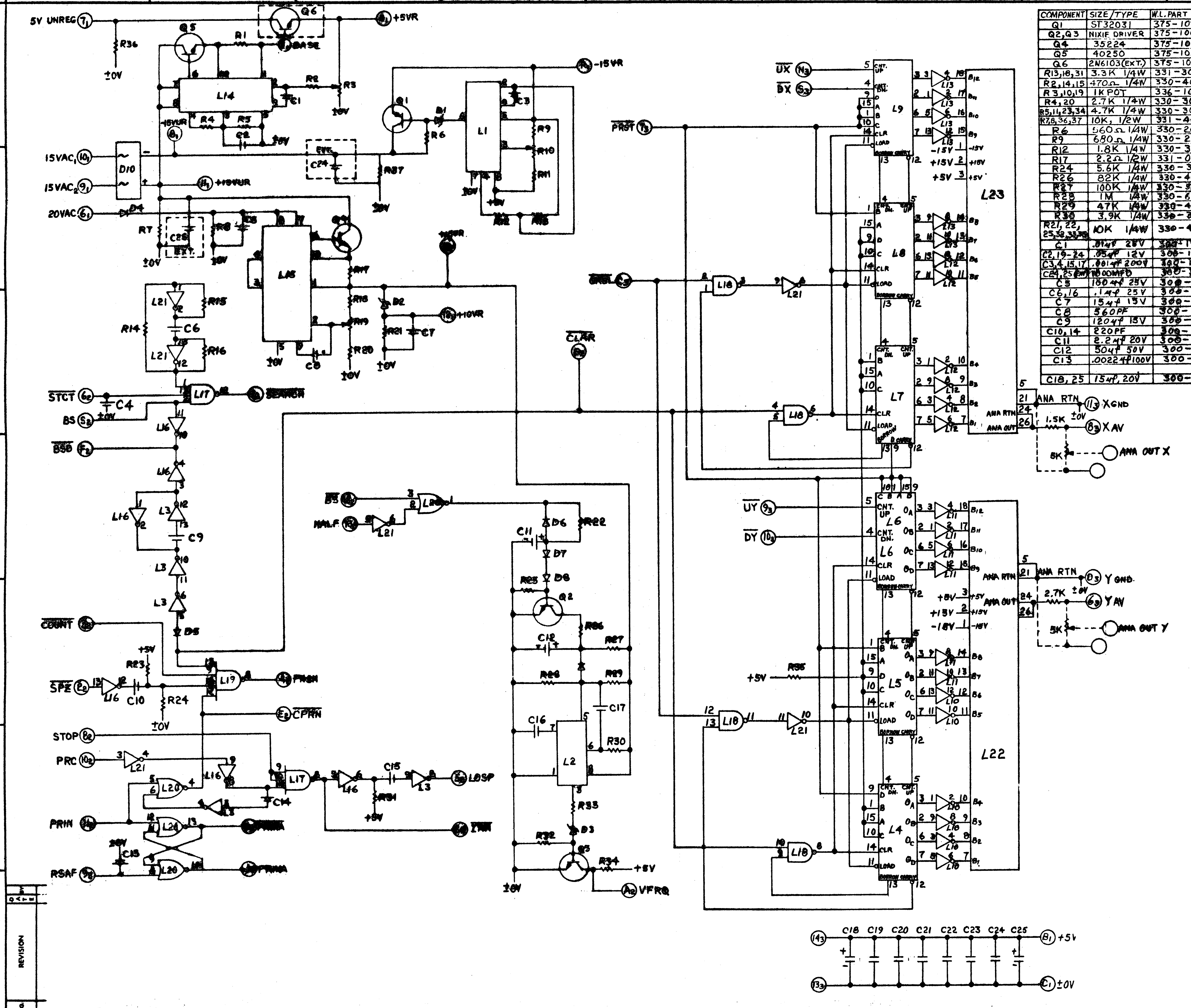
REVISION		
PER ECN #3639 ADDED 4 470Ω RESISTORS APP'D: SEMO	8-10-73	1

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 628/FAB — DRAWN AB 2-28-73 — APP. SEMO 2/17/73

TITLE: SCHEMATIC MOTHER BOARD EXTENDED R.O.M. 6287

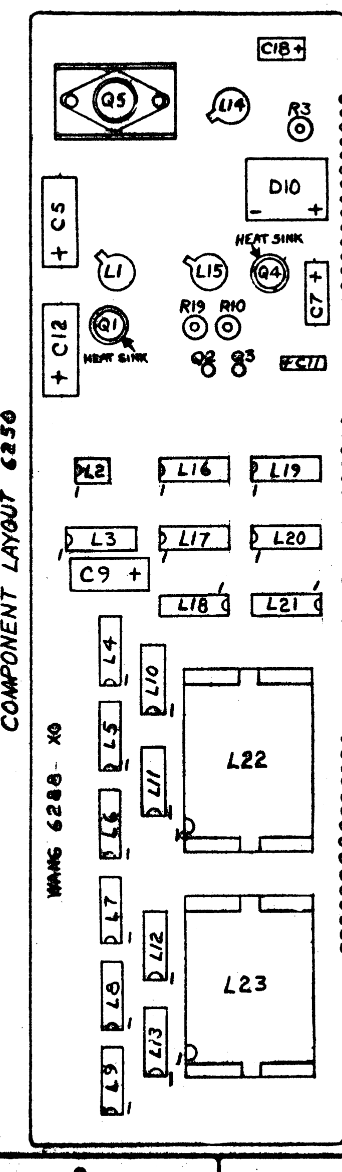
DWG. NO. D 6287-1 REV. 1

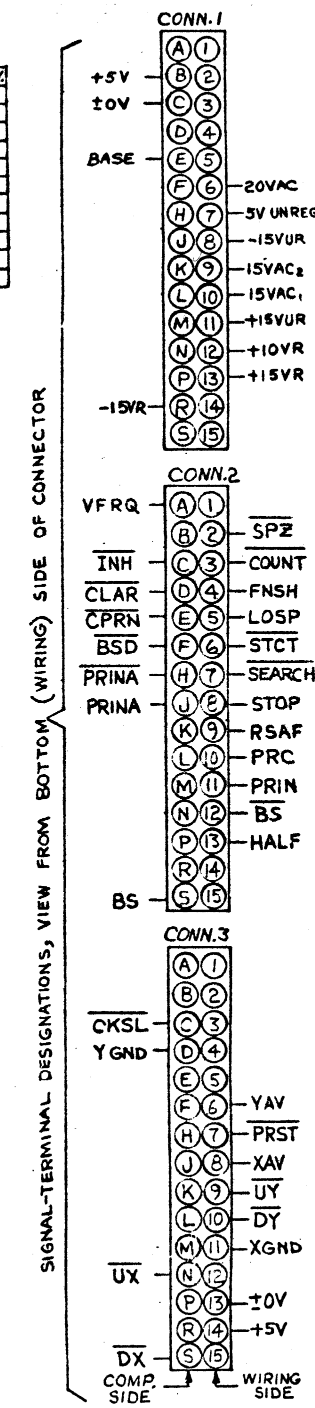


COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY
Q1	ST32031	375-1020	1
Q2,Q3	NIXIE DRIVER	375-1006	2
Q4	35224	375-1001	1
Q5	40250	375-1028	1
Q6	2N6103(EXT.)	375-1035	1
R13,18,31	3.3K 1/4W	331-3033	3
R2,14,15	470Ω 1/4W	330-4047	3
R3,10,19	1K POT	336-1001	3
R4,20	2.7K 1/4W	330-3027	3
R5,11,23,34	4.7K 1/4W	330-3047	4
R7,8,36,37	10K, 1/2W	331-4010	4
R6	560Ω 1/4W	330-2056	1
R9	680Ω 1/4W	330-2068	1
R12	1.8K 1/4W	330-3018	1
R17	2.2Ω 1/2W	331-0022	1
R24	5.6K 1/4W	330-3056	1
R26	82K 1/4W	330-4082	1
R27	100K 1/4W	330-5010	1
R28	1M 1/4W	330-6010	1
R29	47K 1/4W	330-4047	1
R30	3.9K 1/4W	330-3039	1
R21, 22, 25,32,33,35	10K 1/4W	330-4010	6
C1	.01µf 25V	300-1903	1
C2,19-24	.05µf 12V	300-1900	7
C3,4,15,17	.001µf 200V	300-1906	4
C24,25(EXT)	1000MFD	300-3088	2
C5	100µf 25V	300-3026	1
C6,16	.1µf 25V	300-1918	2
C7	15µf 15V	300-3007	1
C8	560PF	300-1560	1
C9	120µf 15V	300-4031	1
C10,14	220PF	300-1220	2
C11	2.2µf 20V	300-4014	1
C12	50µf 50V	300-3010	1
C13	.0022µf 100V	300-2022	1
C18, 25	15µf, 20V	300-4022	2

LOCATION	TYPE	W.L. PART NO.	TERM. NO. +5V	TERM. NO. 0V	QTY.
L1,14,15	µA723	376-0066	8	5	3
L2	NE5566E	376-0112	8	1	1
L3	9935	376-0025	14	7	1
L4 THRU 9	SN74193N	376-0053	16	8	6
L16	9936	376-0026	14	7	1
L17	SN7410N	376-0003	14	7	1
L18	SN7400N	376-0002	14	7	1
L19	SN7420N	376-0004	14	7	1
L20	SN7402N	376-0016	14	7	1
L10-13,21	SN7404N	376-0010	14	7	5
L22,23	DAC-12QZ	725-0401			2

COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY.
D1	1N4735A	380-2063	1
D2	1N751A	380-2051	1
D3	1N962B	380-2126	1
D4	1N4719	380-3002	1
D5 THRU 9	SILICON	380-1001	5
D10	MA970-1	380-4003	1
R1	3.3Ω, 1/2W	330-3033	1
R16	1K, 1/4W	330-3010	1
16 PIN	IC SOCKET	376-9005	2
14 PIN	IC SOCKET	376-9001	6





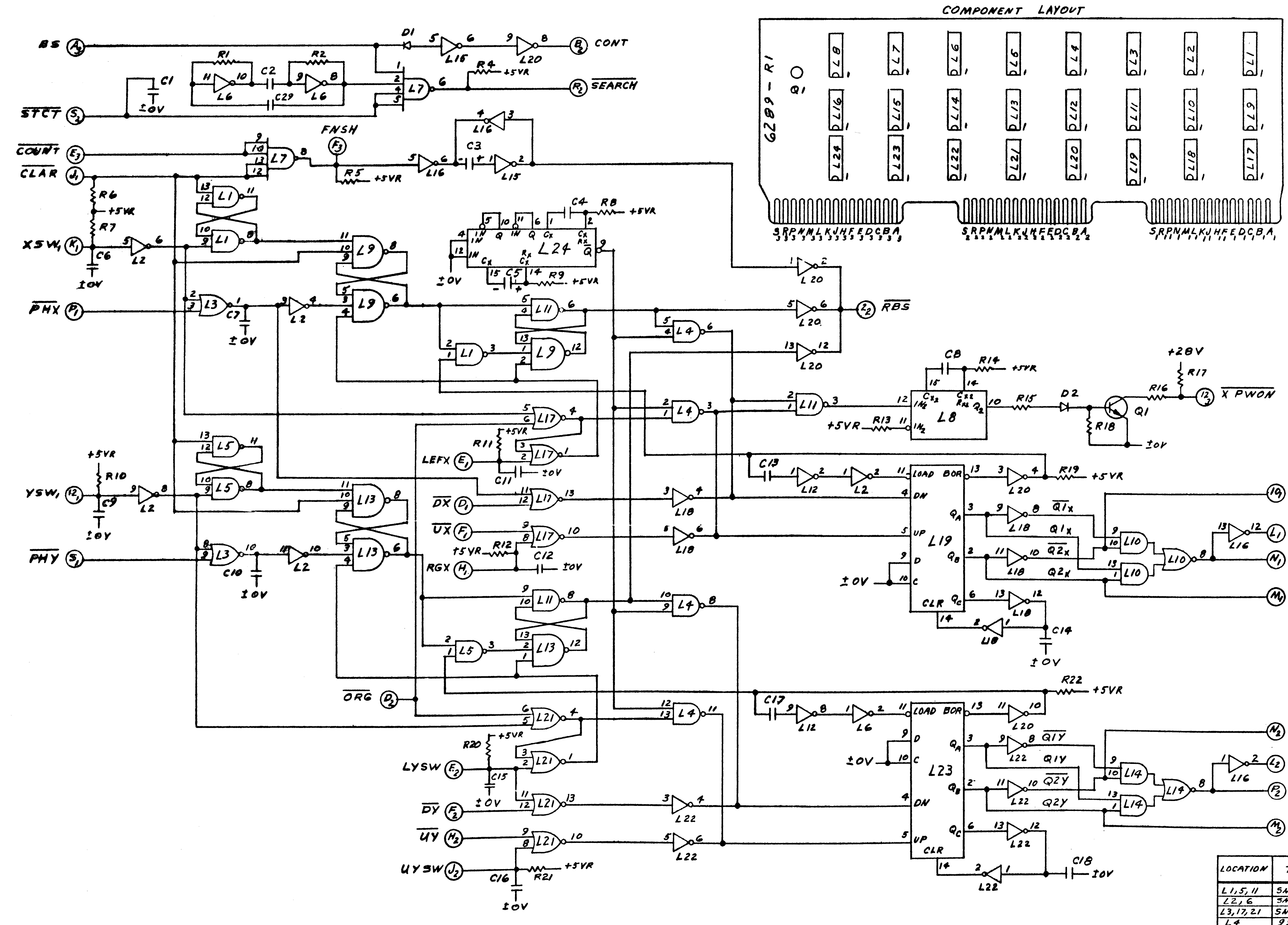
WANG LABORATORIES INC.
TEWKSBURY, MASS.

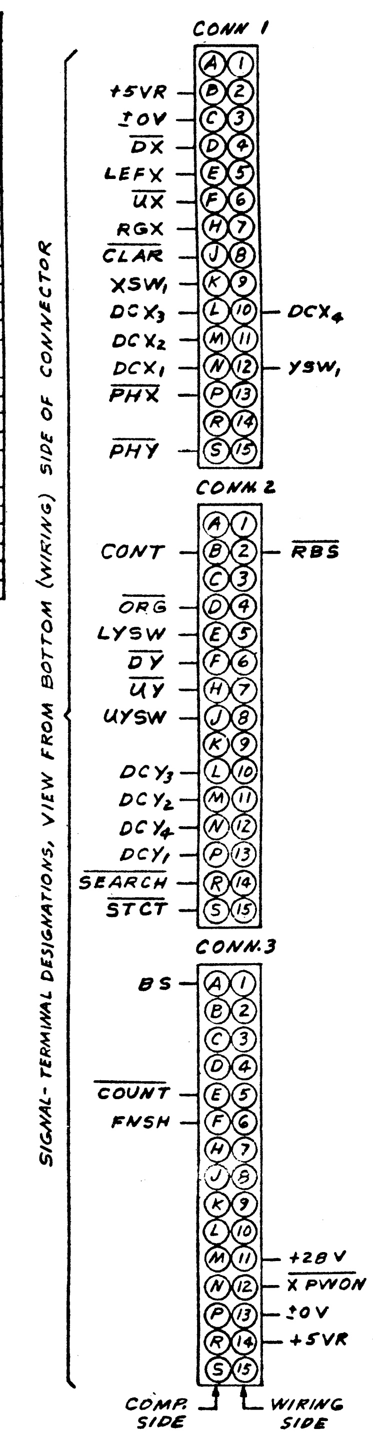
MODEL NO.	DRAWN		APP.
612/712	GK	10/6/72	
	CHECKED		APP. 8-17-73

TITLE: SCHEMATIC LOGIBLOC #6288 REGULATOR & D/A

SHT 1 OF 1 — DWG. NO. D 6288-1

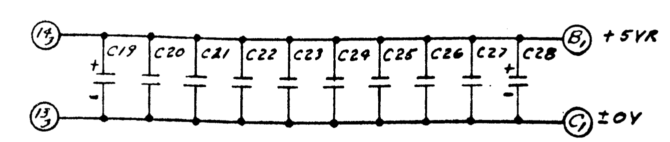
REVISION





COMP.	SIZE/TYPE	W.L. PART No.	QTY
R1	470Ω 1/4W	330-2047	1
R2	1.8K 1/4W	330-3018	1
R4,5,19,22	4.7K 1/4W	330-3047	4
R6	2.2K 1/4W	330-3022	1
R7,8,10,11,12,13,20,21	10K 1/4W	330-4010	8
R9,14	15K 1/4W	330-4015	2
R15,18	1K 1/4W	330-3010	2
R16	560Ω 2W	337-2056	1
R17	120Ω 1/2W	331-2012	1
C1,7,10	.001MF CER	300-1906	3
C2	.1MF CER	300-1901	1
C3	3.3MF 15V TANT	300-4016	1
C4	820PF CER	300-1820	1
C5	.56MF 35V TANT	300-4010	1
C6,9,11,12,15,16	.01MF CER	300-1903	6
C8	.39MF 35V TANT	300-4009	1
C13.17	220PF CER.	300-1220	2
C14,18	47PF CER	300-1047	2
C19,28	15MF 20V TANT	300-4022	2
C20,21,22,23,24,25,26,27	.05MF CER	300-1900	8
C29	.22MF CER	300-1902	1
D1	DIODE SIL	380-1001	1
D2	EM403	380-4000	1
Q1	2N3014	375-0017	1

LOCATION	TYPE	W.L. PART No.	TERM. No. ±0V	TERM. No. +5VR V_{cc}	QTY
L1,5,11	SN7400N	376-0002	7	14	3
L2,6	SN7404N	376-0010	7	14	2
L3,17,21	SN7402N	376-0014	7	14	2
L4	9946	376-0023	7	14	1
L7	9944	376-0024	7	14	1
L8,24	9602	376-0104	8	16	2
L9,13	SN7410N	376-0003	7	14	2
L10,14	SN7451N	376-0012	7	14	2
L12,15	9935	376-0025	7	14	2
L16,18,22	9936	376-0026	7	14	3
L19,23	SN74193N	376-0053	8	16	2
L20	SN7406N	376-0055	7	14	1



REVISION		
1	REVISED PER ECN #3796 APP'D SKH	9-13-73
2	REVISED PER ECN #3971 APP. D SKH	11-30-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
732	DRAWN	3-6-73	APP.	9/7/73
	CHECKED			

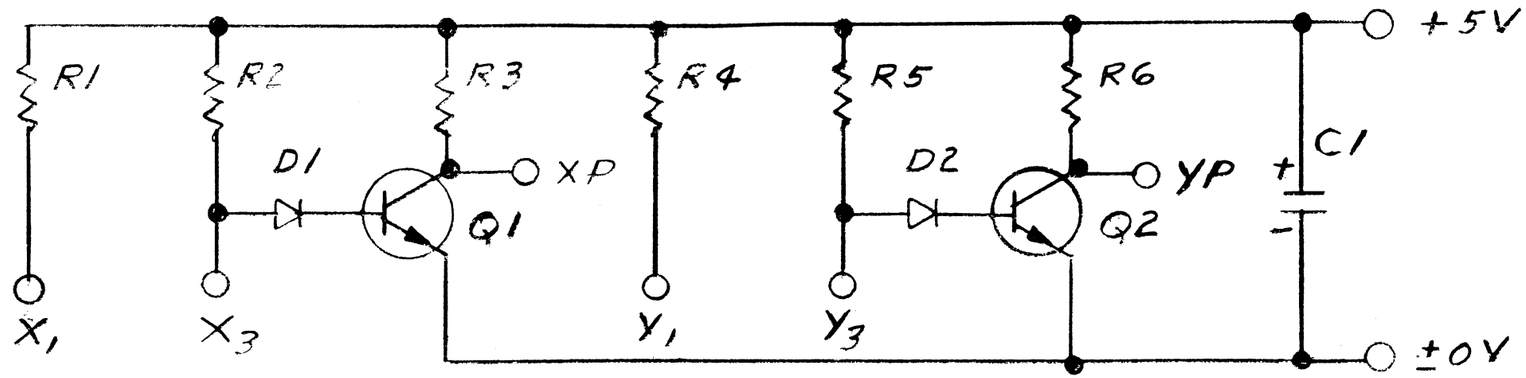
TITLE: SCHEMATIC LOGIBLOC 6289 STEP MOTOR DRIVER DECODER

SHT OF — DWG. NO. D 6289-1 — REV. 2

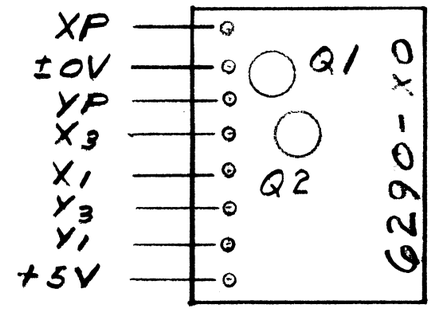
DO NOT SCALE

D 6289-1

DO NOT SCALE



COMP.	SIZE/TYPE	W.L. PART No.	QTY
R1, 4	470-Ω 1/4W	330-2047	2
R2, 5	18K 1/4W	330-4018	2
R3, 6	5.6K 1/4W	330-3056	2
C1	10 μF 35V TANT	300-4032	1
D1, 2	DIODE SIL	380-10013B	2
Q1, 2	2N3014	375-0017	2



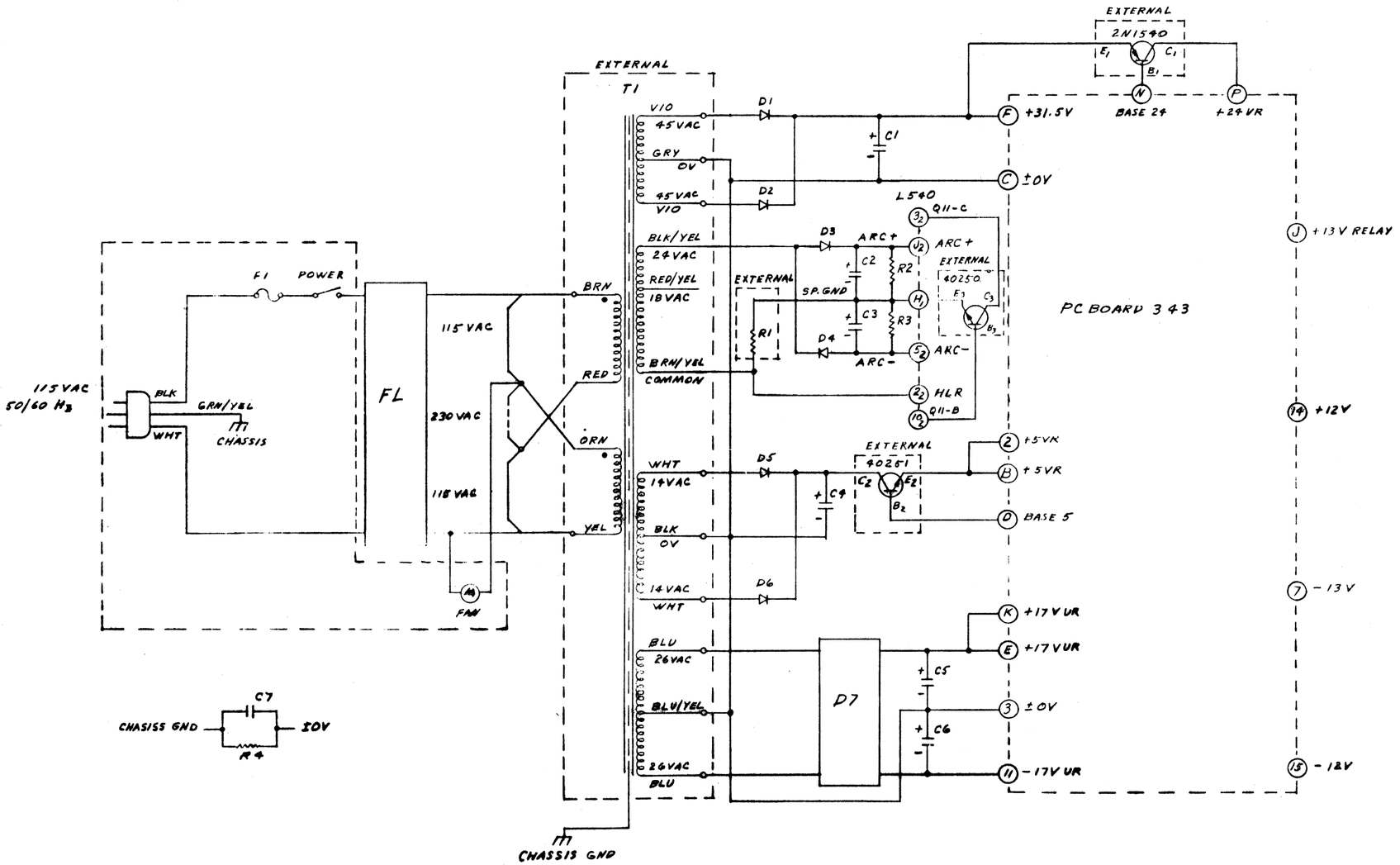
WANG LABORATORIES, INC.
TEWKSBURY, MASS. U. S. A.

MODEL NO.	DRAWN	DATE	APPD	
732	CHECKED		APPD	8/21/73

TITLE: SCHEMATIC 6290
PHOTO TRANSISTOR AMPLIFIER

W.O. NO.	SCALE	DWG. NO.	REV
		A 6290-1	

DO NOT SCALE



COMPONENT	SIZE/TYPE	WL. PART NO.	QTY
R1	10Ω 10W	333-0046	1
R2,3	1K 2W	337-3010	2
R4	100K ¼W	330-5010	1
C1	2600 MF 50V	300-3040	1
C2,3,5,6	1000 MF 50V	300-3055	4
C4	14000 MF 20V	300-3045	1
C7	.47 MF 100V	300-2247	1
D4,2,5,6	A15	380-3004	4
D3,4	EM403	380-4000	2
D7	MBA 970-1	380-4003	1
D8	DIODE GBR	380-0000	1
T1	TRANSFORMER	410-0078	1
FL	LINE FILTER	600-2002	1
F1	2A	560-1020	1

REVISION	BY	DATE	APPD
1	PER ECN #3203 C4 WAS 6800 MF	7-27-72	

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 6274 -729 | DRAWN DB 7-27-72 | APP. | CHECKED KT 7/27/72 | APP.

TITLE SCHEMATIC 6274 POWER SUPPLY AND MOTHER BOARD

SHT 1 OF 2 | DWG. NO. 6274-1 | REV. 1

D 6235-1

DO NOT SCALE

2nd HALF

REAR PANEL

L540-10₂ Q11-B

L540-3₂ Q11-C — Q11 — #24 BUSS — R1

L540-2₂ HLR — L540-H, SP GND

343

1st HALF

L540: MXE, +5VR, IOV, MXI, MXG, Q11-B, M₂R, ARC+, M₁R, M₁L, ARC−, M₂L, Q11-C, HLR, MXA — MXF

L542: +5VR, IOV, MXB, MXF, FOR, MXD, MTONC, MXH, RBK, MXG, MXC, MXJ, −13V, SP GND, MXI, +13V — RIGHT, MXA, MXE

L537: +5VR, IOV, CTDWL, CTUPL, B₃F, B₂F, B₀F, B₁F, CTUPR, CTDWR, P₃, A₁F

L564: GOS, +5VR, IOV, GOSD, GOSD, WL I, REBL, RCL₀, RCR₀, SEL II, SEL I, DIL₁, DIR₁, DIL₀ — RL II, WL II, RL I, FCLK, 15 K HZ, DK II, WTST, DK II, DK I

L563: +5VR, IOV, GKA₁, GKA₂, GKB₁, GKB₀, GKB₂, DK, P₄, GOSD, WT, ZDL — GKA₀, GKA₃, GKB₃, DK II

L562: +5VR, IOV, MTONC, FOR, WEBLP, DL₁₃, HIRC, HILC, PRR I, PRF I, PRR II, PRF II — MTONC, FOC, SFF, P₄, RBK, WMONF, WEBL, WEBL, WMOND

L561: FIND, +5VR, IOV, ERROR, ERW, SFF, FORMAT ENBL II, BCCL, MERD, BLCKD, FOC, Z DROP, P₂, GOS, WEBL — FORMAT ENBL I, DK I, MER I, LPF, DK II, MER II, A₃F, RDST, LPS, ZDL, RD, WT

L535: +5VR, IOV, GOS, BCCL, GPRM, OPQP, REWDC, RRTB, I₀B₃, I₀B₂, I₀B₁ — BCCL, GOS, QPQ, DK I, LOP, DK II, ROP, GISO, REWD, RRTB, DGISO, AGISO

L560: +5V, IOV, Z DROP 1, ECL, GISD, OPQ, RRTB, RD, F DATA, RIGHT, GISO — HKP₄, GISN, ZDL, P4, SW 1, CLRC, DK II, 15 K HZ, P123, REWD, WT, GPRM, DK I

−12V, +12V, −17VR, −13V, IOV, +5VR — +24V, BASE 24, +17VR, +13V, +31.5VR, +17VR, BASE 5, IOV, +5VR

2nd HALF

MXB, MXD, MXH, SP GND, MXC, MXJ, +13V, IOV, +5VR, −13V

RSR, FSR, FSL, RSL, HIRS, HILS, +24V — PRF II, PRF I, PRR II, PRR I, HIRC, HILC, MTONC, IOV, +5VR

CLRLB, DK II, CLRRB, A=B, A<B, A>B, A₃F, P₂, A₂F, A₀F, IOV, +5VR

DK, LTCK, LDK, RTCK, RDK, DATA, A₃F, A₂F, A₁F, A₀F — WT, GOS, Z DROP₁, WEBL, DGISO, DIR₀, TIMC, B₃F, B₂F, B₁F, B₀F, IOV, +5VR

BLCK, GISD, MERD, P₁₂₃, DL₁₃, ERROR, WEBL, RDST, GOSD, WTST, REBL — BCCL, LPF, HKP₄, LPS, IOV, +5VR, DATA

BCCL, DK II, ZDL, DK I, A<B, ERW, RD, RRTB, CLRC, BLCKD, R₅C — REBL, CLRRB, Z DROP₂, GOS, CTDWR, CTUPL, CTDWL, GPRM, CLRLB, CTUPR, REWD, BLCK, IOV, +5VR, HKP₄

REBL, P₂, P₄, GPRM, AGISO, B₁F, P₁₂₃, A₀F, A₁F, B₂F, OPQ, BOT — LPSD, A₂F, P₃, P₁, WTST, DL₁₃, P₄, GI₀B₁F, CRS₃I, CRS₂I, B₁F, B₀F, B₃F, CRS₀I, CRS₀II, CRS₃II, B₂F, IOV, +5VR, A=BP

A₀F, GI₀A₀F, A₂F, GI₀A₂F, A₃F, GI₀A₃F, B₃F, GI₀B₃F, B₀F, GI₀B₀F, GI₀B₂F, CRS₂II, CRS₁II — DK II, GI₀A₁F, A₁F, CRS₁I, CRS₂I, B₁F, GI₀B₁F, CRS₃I, CRS₀I, CRS₀II, CRS₃II, B₂F, IOV, +5V

A=B, A₃F, FIND, BOT, BOF, TIMC, SFF — DK II, FCLK, LOCK SW., WEBLP, Z DROP₂, WMONF, GKBD, BLCK, WMOND, LPSD, FOC, IOV, +5V

P1 — CG235-1 SHT. 3 — DG235-1 SHT. 6

P2 — CG235-1 SHT. 7 — CG235-1 SHT. 4

CG235-1 SHT. 8 — CG235-1 SHT. 5

I/O CABLE

CH. GND, 2.4VAC, +24V, +12V, −12V, +5V, IOV

C4, C1, C7, C6, C5, D7, C2, C3

BRN, RED, ORN, YEL — FL

M,L M₂R M₂L — HILS FSL FSR — LTCK LDK HIRS — DIL₁ RCR₀ RCL₀ — DIR₀ DIL₀ DIR₁ — RDK RTCK — LOP ROP — LOCK SWITCH SW1 — CHAS. GND.

COMP	SIZE/TYPE	W.L NO.	QTY
D8	GERM. DIODE	380-0000	1

GRN, WHT, BLK, WHT, VIO, GRAY, VIO, BLU, BLU/YEL, BLU, BLK/YEL, RED/YEL, BRN/YEL — C1, B1, E1, E2, B2, C2

GKB₀, GKA₂, GKA₁, GKB₂, GKB₁, GKB₃, GISN, GKA₀, GKA₃, GI₀A₀F, GI₀B₃F, GI₀A₃F, GI₀A₂F, I₀B₃, I₀B₂, I₀B₁, GPRM, GI₀B₂F, GI₀B₁F, GI₀B₀F, IOV, CH. GND

WANG LABORATORIES INC.
TEWKSBURY, MASS.

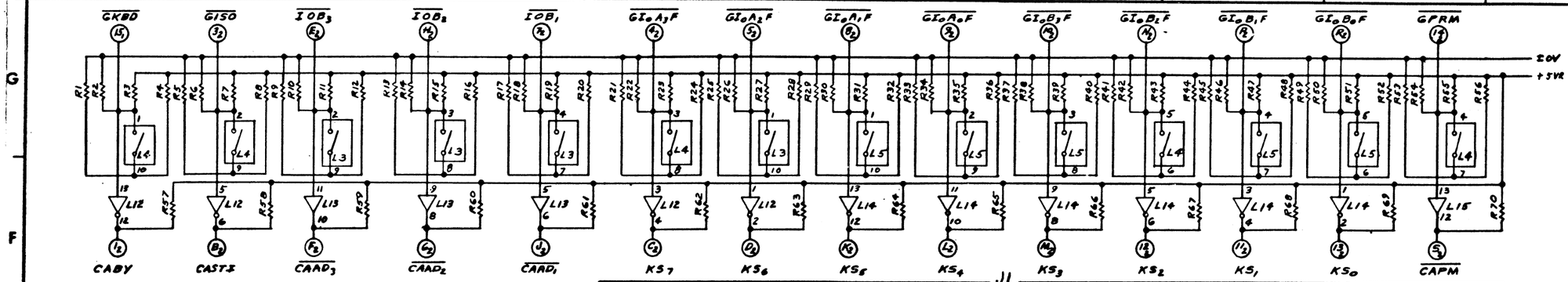
MODEL NO.	DRAWN	DATE	APP.
729	CHECKED	3-6-73	APP.

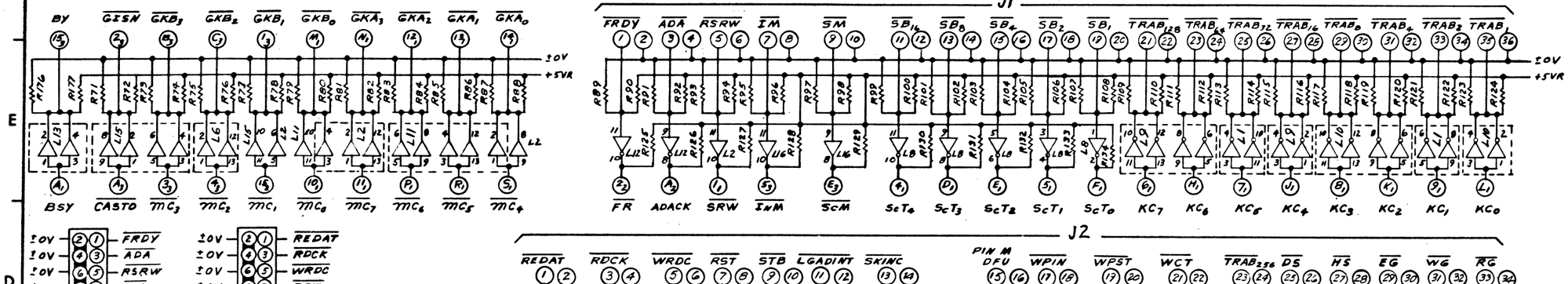
TITLE: POWER SUPPLY AND MOTHER BCARD

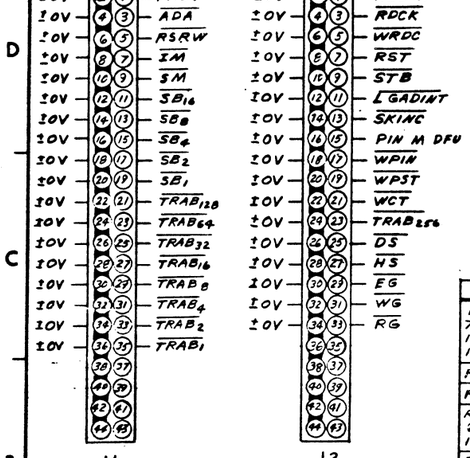
SHT 2 OF 8 — DWG. NO. D 6294-1 — REV.

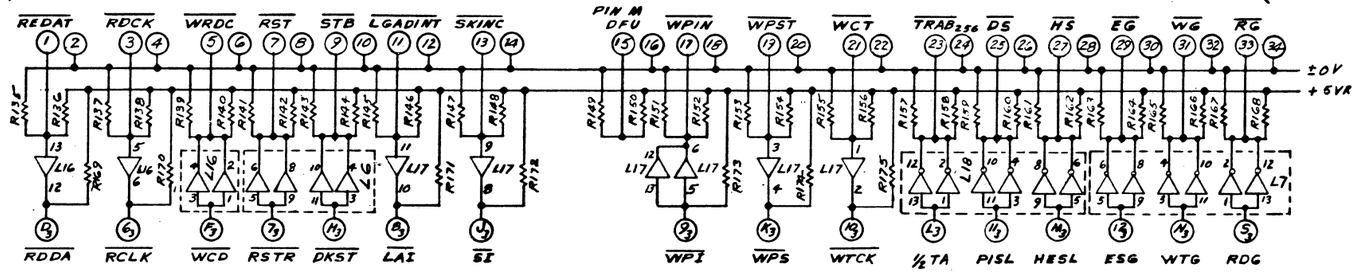
D 6294-1

NO	REVISION	BY	DATE

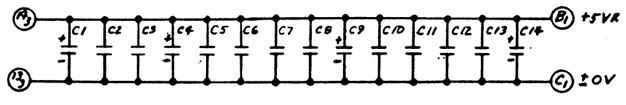


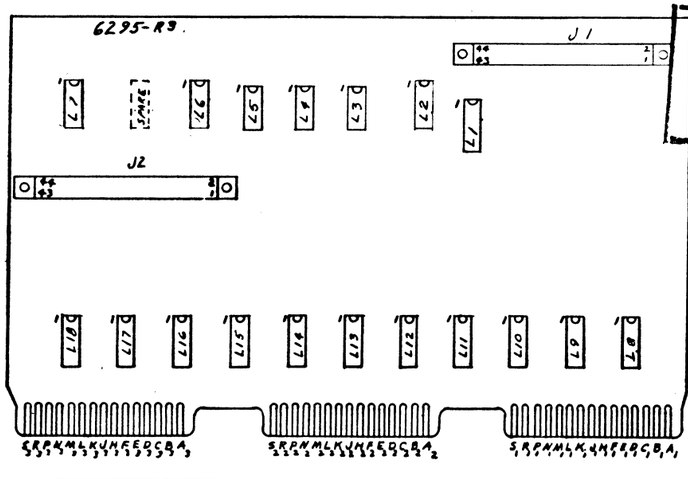






COMPONENT	SIZE/TYPE	WL PART NO.	QTY
R4,5,9,13,17,21,25,29,33,37,41,45,49,53,71,73,75,77,79,81,83,85,87,89,91,93,95,97,99,101,103,105,107,109,111,113,115,117,119,121,123,135,137,139,141,143,145,147,149,151,153,155,157,159,161,163,165,167,176	330Ω ¼W	330-2033	59
R2, 6, 10, 14, 18, 22, 26, 30, 34, 38, 42, 46, 50, 54	3.3K ¼W	330-3033	14
R3, 7, 11, 15, 19, 23, 27, 31, 35, 39, 43, 47, 51, 55	2.2K ¼W	330-3022	14
R1,8,12,16,20,24,28,32,36,40,44,48,52,56,57,58,62,63,64,65,66,67,68,69,70,72,74,76,78,80,82,84,86,88,125,126,127,129,130,131,132,133,134,169,170,177	220Ω ¼W	330-2022	46
R59, 60, 61, 128, 171, 172, 173, 174, 175	1K ¼W	330-3010	9
R90,92,94,96,98,100,102,104,106,108,110,112,114,116,118,120,122,124,136,138,140,142,144,146,148,150,152,154,156,158,160,162,164,166,168	150Ω ¼W	330-2015	35
C1, 4, 9, 14	18MF30V TANT	300-4022	4
C2, 3, 5, 6	.01MF CER	300-1903	4
C7, 8, 10, 11, 12, 13	.02MF CER	300-1904	6
J1, J2	64 PIN CONN.	350-0027	2





BACK FILE
Per ECN# 5656 & 5660
Date 9-27-76

CONN. 1 / CONN. 2 / CONN. 3

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

CONN. 1			CONN. 1		
BSY	A	1		1	A	$\overline{SRW}$
+5VR	B	2		2	B	
±0V	C	3		3	C	
ScT_3	D	4	ScT_4	4	D	ScT_4
ScT_2	E	5	ScT_1	5	E	ScT_1
ScT_0	F	6	KC_7	6	F	KC_7
KC_5	H	7	KC_6	7	H	KC_6
KC_4	J	8	KC_3	8	J	KC_3
KC_2	K	9	KC_1	9	K	KC_1
KC_0	L	10	$\overline{MC_0}$	10	L	$\overline{MC_0}$
$\overline{GKB_0}$	M	11	$\overline{MC_7}$	11	M	$\overline{MC_7}$
$\overline{GKA_3}$	N	12	$\overline{GKA_2}$	12	N	$\overline{GKA_2}$
$\overline{MC_6}$	P	13	$\overline{GKA_1}$	13	P	$\overline{GKA_1}$
$\overline{MC_5}$	R	14	$\overline{GKA_0}$	14	R	$\overline{GKA_0}$
$\overline{MC_4}$	S	15	$\overline{GKBD}$	15	S	$\overline{GKBD}$

CONN. 2			CONN. 2		
ADACK	A	1	CABY	1	A	CABY
CAST I	B	2	$\overline{FR}$	2	B	$\overline{FR}$
KS_7	C	3	$\overline{GISO}$	3	C	$\overline{GISO}$
KS_6	D	4	$\overline{GIoA_3F}$	4	D	$\overline{GIoA_3F}$
$\overline{IoB_3}$	E	5	$\overline{GIoA_2F}$	5	E	$\overline{GIoA_2F}$
$\overline{CAAD_3}$	F	6	$\overline{CAAD_2}$	6	F	$\overline{CAAD_2}$
$\overline{IoB_2}$	H	7	$\overline{IoB_1}$	7	H	$\overline{IoB_1}$
$\overline{CAAD_1}$	J	8	$\overline{GIoA_1F}$	8	J	$\overline{GIoA_1F}$
KS_5	K	9	$\overline{GIoA_0F}$	9	K	$\overline{GIoA_0F}$
KS_4	L	10	$\overline{GIoB_3F}$	10	L	$\overline{GIoB_3F}$
KS_3	M	11	KS_1	11	M	KS_1
$\overline{GIoB_2F}$	N	12	KS_2	12	N	KS_2
$\overline{GIoB_1F}$	P	13	KS_0	13	P	KS_0
$\overline{GIoB_0F}$	R	14	$\overline{GPRM}$	14	R	$\overline{GPRM}$
$\overline{CAPM}$	S	15	$\overline{MC_1}$	15	S	$\overline{MC_1}$

CONN. 3			CONN. 3		
$\overline{CAST_0}$	A	1	$\overline{GKB_1}$	1	A	$\overline{GKB_1}$
$\overline{GKB_3}$	B	2	$\overline{GISN}$	2	B	$\overline{GISN}$
$\overline{GKB_2}$	C	3	$\overline{MC_3}$	3	C	$\overline{MC_3}$
$\overline{RDDA}$	D	4	$\overline{MC_2}$	4	D	$\overline{MC_2}$
$\overline{SCM}$	E	5	$\overline{INM}$	5	E	$\overline{INM}$
$\overline{WCD}$	F	6	$\overline{RCLK}$	6	F	$\overline{RCLK}$
$\overline{DKST}$	H	7	$\overline{RSTR}$	7	H	$\overline{RSTR}$
$\overline{SI}$	J	8	$\overline{LAI}$	8	J	$\overline{LAI}$
$\overline{WPS}$	K	9	$\overline{WPI}$	9	K	$\overline{WPI}$
½TA	L	10	$\overline{WTCK}$	10	L	$\overline{WTCK}$
HESL	M	11	PISL	11	M	PISL
WTG	N	12	ESG	12	N	ESG
	P	13	±0V	13	P	±0V
	R	14	+5VR	14	R	+5VR
RDG	S	15	BY	15	S	BY
COMP SIDE			WIRING SIDE			

LOCATION	TYPE	W.L. PART NO.	TERM. No. ±0V	TERM. No. V_{CC} +5VR	QTY
L1,7,8,9,10,12,14,18	SN7406N	376-0053	7	14	8
L2,6,11,13,15,16,17	SN7407N	376-0056	7	14	7
L3,4,5	ROCKER SW	325-1501	—	—	3

NO	REVISION	BY	DATE
0	ORIGINAL RELEASE		
A	REVISED PER ECN #3855 APP'D	CRC	10-19-73
B	REVISED PER ECN #5092 APP'D		11-4-74
C	REVISED PER ECN #5656 APP'D		11-6-76
D	REVISED PER ECN #5660 APP'D		11-10-76

E.C. REV. 0

MAY 19 1977

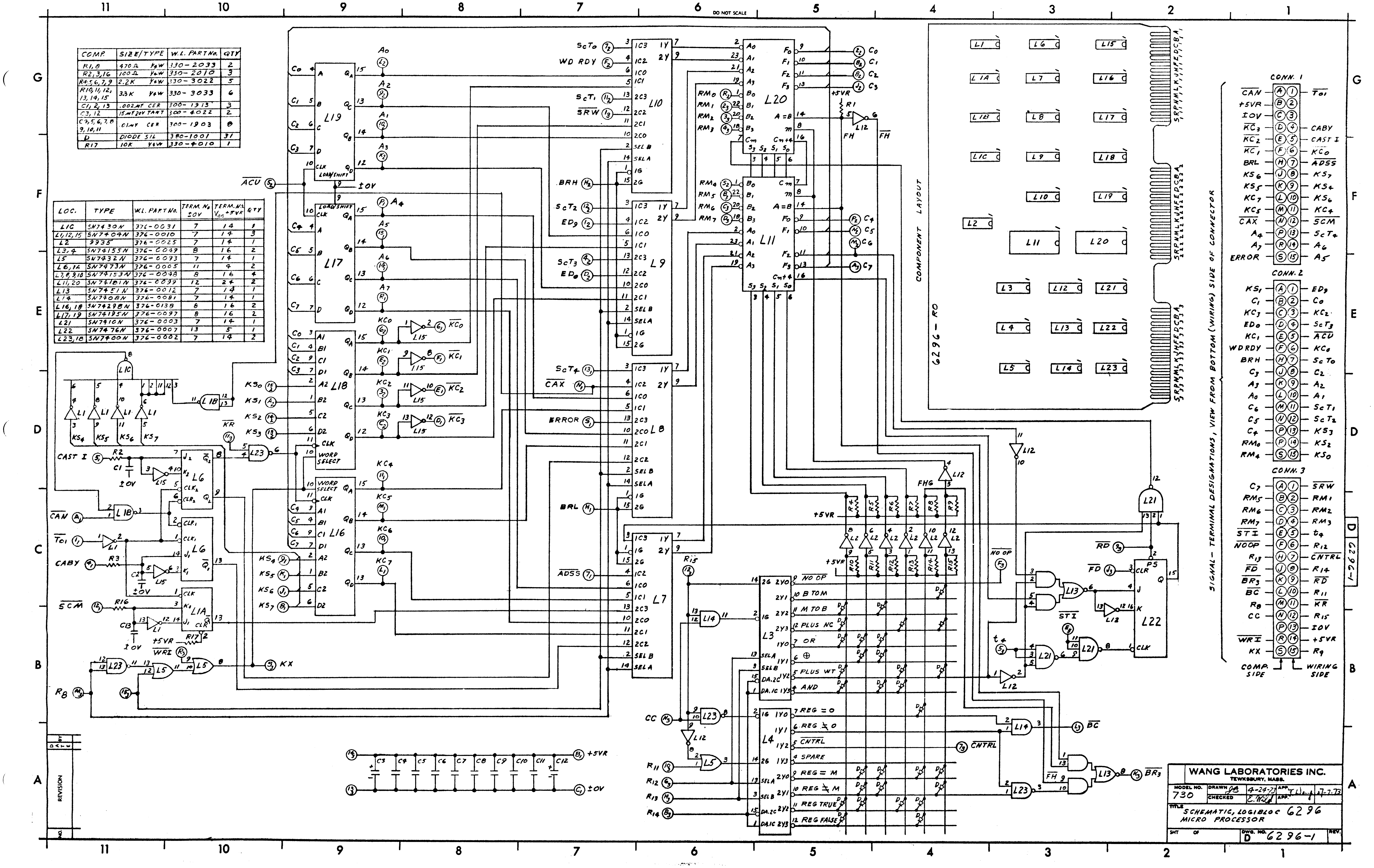
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.
6327730 2230	4-17-73	7-7-73
	11-7-74	

TITLE: SCHEMATIC LOGIBLOC 6295 TERMINATOR BOARD

SHT 4 OF 5 | DWG. NO. D 6295 | REV. 4

D 6295



COMP.	SIZE/TYPE	W.L. PART No.	QTY
R1, 8	470Ω 1/4W	330-2033	2
R2, 3, 16	100Ω 1/4W	330-2010	3
R4, 5, 6, 7, 9	2.2K 1/4W	330-3022	5
R10, 11, 12, 13, 14, 15	3.3K 1/4W	330-3033	6
C1, 2, 13	.002MF CER	300-1913	3
C3, 12	15MF 20V TANT	300-4022	2
C4, 5, 6, 7, 8, 9, 10, 11	.01MF CER	300-1903	8
D	DIODE SIL	380-1001	31
R17	10K 1/4W	330-4010	1

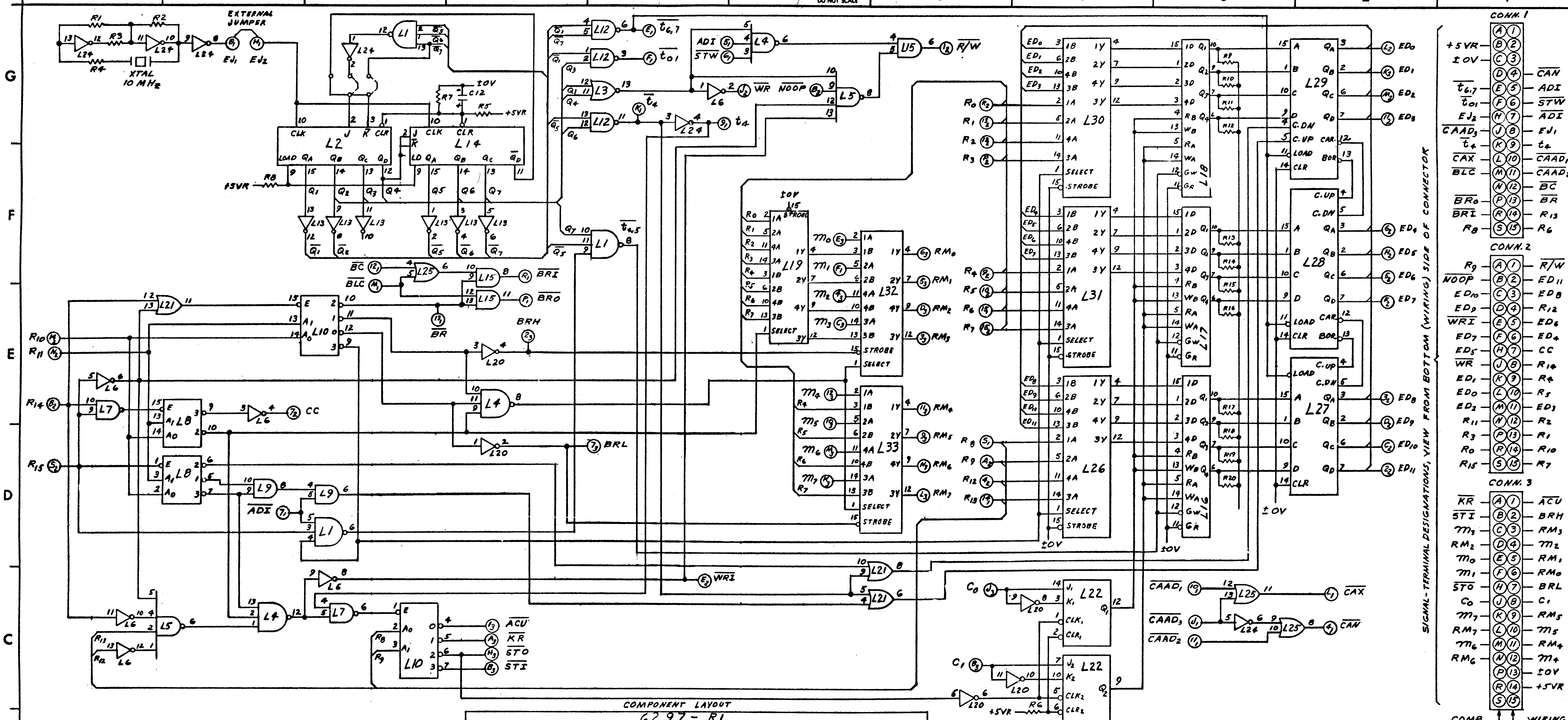
LOC.	TYPE	W.L. PART No.	TERM. No. ±0V	TERM. No. V_{cc} +5VR	QTY
L1C	SN7430N	376-0031	7	14	1
L1, 12, 15	SN7404N	376-0010	7	14	3
L2	9935	376-0025	7	14	1
L3, 4	SN74155N	376-0049	8	16	2
L5	SN7432N	376-0093	7	14	1
L6, 1A	SN7473N	376-0005	11	4	2
L7, 8, 9, 10	SN74153N	376-0048	8	16	4
L11, 20	SN74181N	376-0099	12	24	2
L13	SN7451N	376-0012	7	14	1
L14	SN7408N	376-0081	7	14	1
L16, 18	SN74298N	376-0138	8	16	2
L17, 19	SN74195N	376-0097	8	16	2
L21	SN7410N	376-0003	7	14	1
L22	SN7476N	376-0007	13	5	1
L23, 18	SN7400N	376-0002	7	14	2

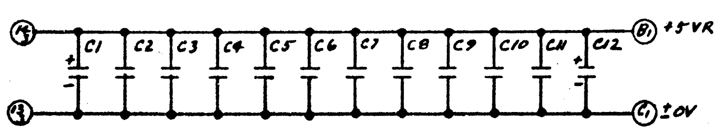
WANG LABORATORIES INC.
TEWKSBURY, MASS.

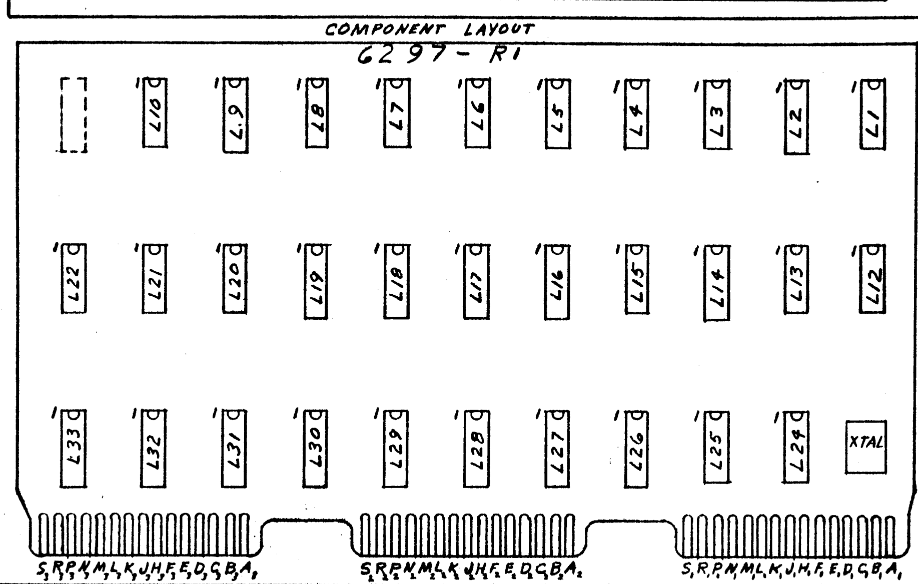
MODEL NO.	DRAWN		APP.	
730	JB	4-24-73	J. Wang	27-7-73
	CHECKED	E. Wild	APP.	

TITLE: SCHEMATIC, LOGIBLOC 6296 MICRO PROCESSOR

SHT OF — DWG. NO. D 6296-1 — REV.







LOCATION	TYPE	W.L. PART No.	TERM. NO ±OV	TERM. NO. Vcc +5VR	QTY
L1, 4	SN7410N	376-0003	7	14	2
L2, 14	SN74195N	376-0097	8	16	2
L3	SN7402N	376-0016	7	14	1
L5	SN7420N	376-0004	7	14	1
L6, 13, 20, 24	SN7404N	376-0010	7	14	4
L7, 12	SN7400N	376-0002	7	14	2
L8, 10	9321	376-0096	8	16	2
L9, 15	SN7408N	376-0081	7	14	2
L16, 17, 18	SN74170N	376-0095	8	16	3
L19, 26, 30, 31, 32, 33	SN74157N	376-0082	8	16	6
L21, 25	SN7432N	376-0093	7	14	2
L22	SN7473N	376-0006	11	4	1
L27, 28, 29	SN74193N	376-0053	8	16	3

COMP.	SIZE/TYPE	W.L. PART NO.	QTY
R1	180Ω ¼W	330-2018	1
R2	1.8K ¼W	330-3018	1
R3, 4	220Ω ¼W	330-2022	2
R5, 8	4.7K ¼W	330-3047	2
R6	10K ¼W	330-4010	1
R7	6.8K ¼W	330-3068	1
C1, 12	15MF 20V TANT	300-4022	2
C2, 3, 4, 5, 6, 7, 8, 9, 10, 11	.05MF CER	300-1900	10
C12	8.2MF 20V TANT	300-4028	1
XTAL	10 MHz	321-0008	1
R9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	2.2K ¼W	330-3022	12

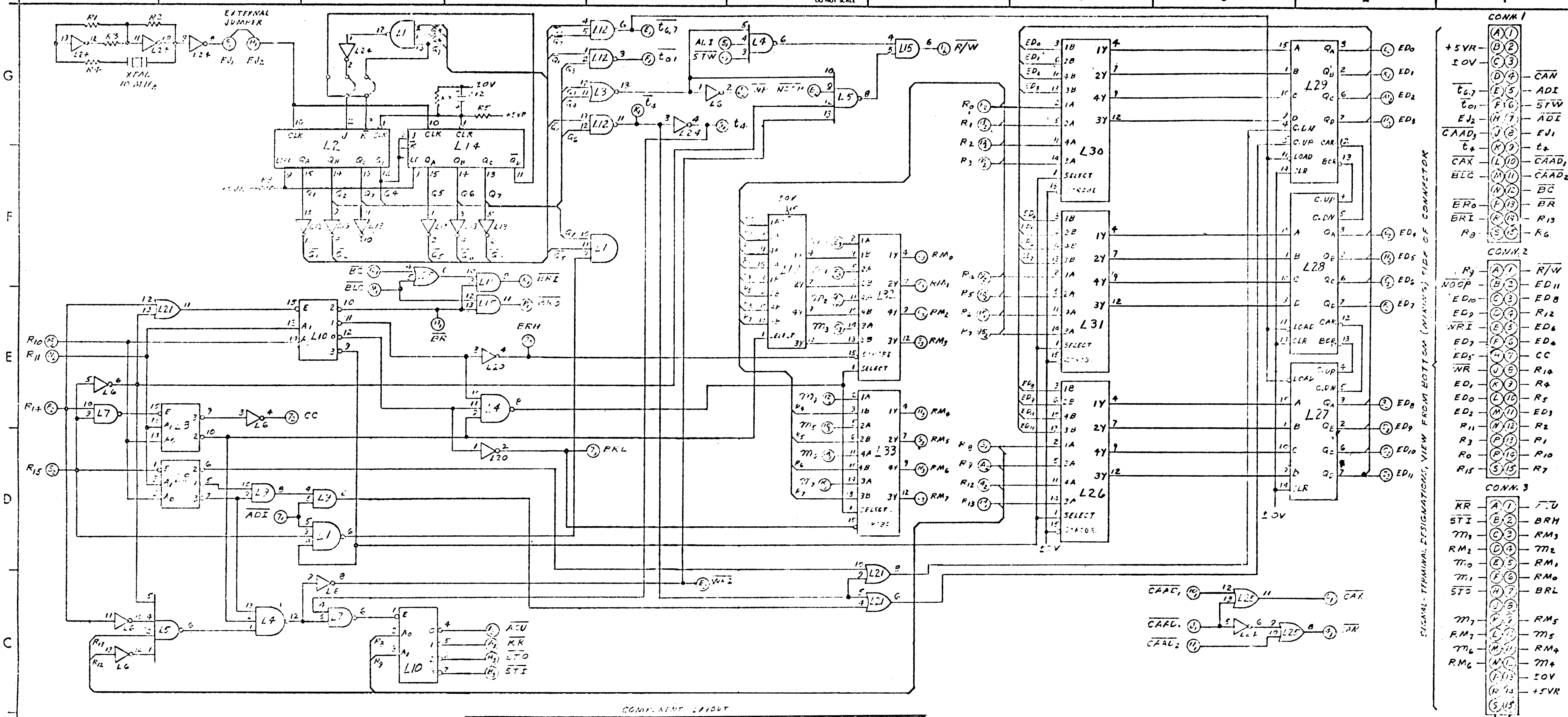
REVISION		DATE	APP.
1	REVISED PER ECN #3739 APP'D	8-3-73	JB
2	REVISED PER RFA #0355 APP'D	8-29-73	JB
3	REVISED PER ECN #3877 APP'D	10-23-73	JB

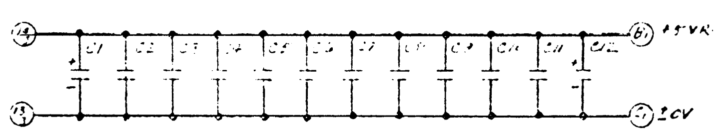
WANG LABORATORIES INC.
TEWKSBURY, MASS.

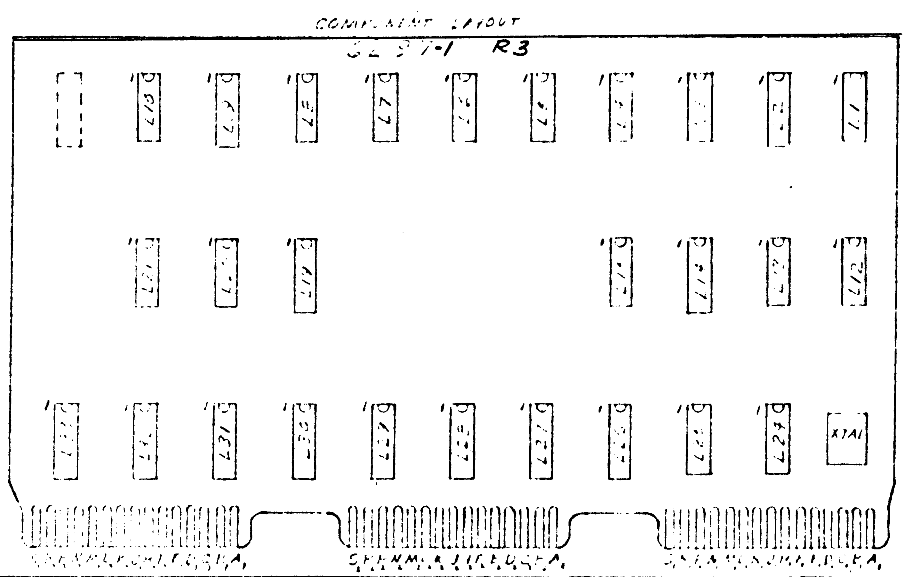
MODEL NO. 730 | DRAWN JB 5-8-73 | APP. | CHECKED | APP.

TITLE: SCHEMATIC LOGIBLOC 6297 MICRO PROCESSOR

SHT OF | D | DWG. NO. 6297-1 | REV. 3







LOCATION	TYPE	W.L. PART NO.	TERM. NO ΣOV	TERM. NO. Vcc +5VR	QTY
L1, 4	[illegible]	376-0003	7	14	2
L2, 14	[illegible]	376-0077	8	16	2
L3	[illegible]	376-0013	7	14	1
L5	[illegible]	376-[illegible]	7	14	1
L6, 13, 20, 24	[illegible]	376-0010	7	14	4
L7, 12	[illegible]	376-0002	7	14	2
L9, 10	[illegible]	376-0076	8	16	2
L9, 15	[illegible]	376-0081	7	14	2
L17, 26, 30, 31, 32, 33	SN74153N	376-0032	8	16	6
L21, 25	SN7432N	376-0093	7	14	2
[illegible]	SN74193N	376-0059	8	16	3

COMP.	SIZE/TYPE	W.L. PART NO.	QTY
R1	150Ω ¼W	330-2019	1
R2	1.5K ¼W	330-2018	1
R3, 4	[illegible] ¼W	330-2022	2
R5	4.7K ¼W	330-3047	[illegible]
R7	[illegible] ¼W	330-[illegible]	1
C1, 12	15MF [illegible] TANT	300-4022	2
C2, 3, 4, 5, 6, 7, 8, 9, 10, 11	.05MF CER	300-1900	10
[illegible]	[illegible]	[illegible]-3029	1
XTAL	[illegible] MHz	321-0008	1

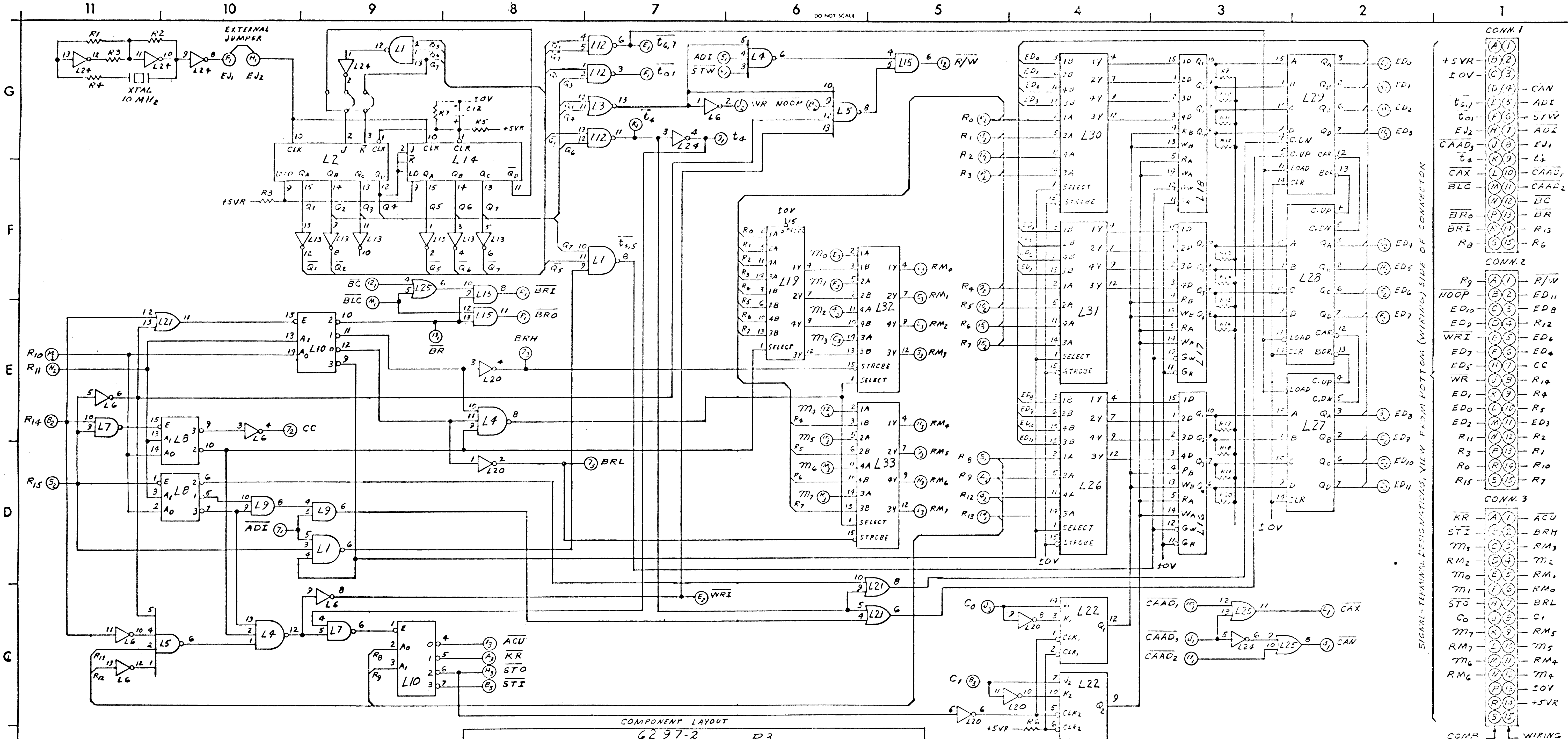
REVISION: REVISED PER ECN # 4074, APP'D — 4-8-74

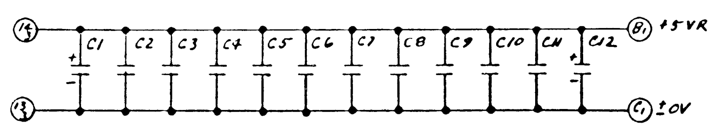
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 730

TITLE: SCHEMATIC LOGIC-LOG 6297 MICRO PROCESSOR

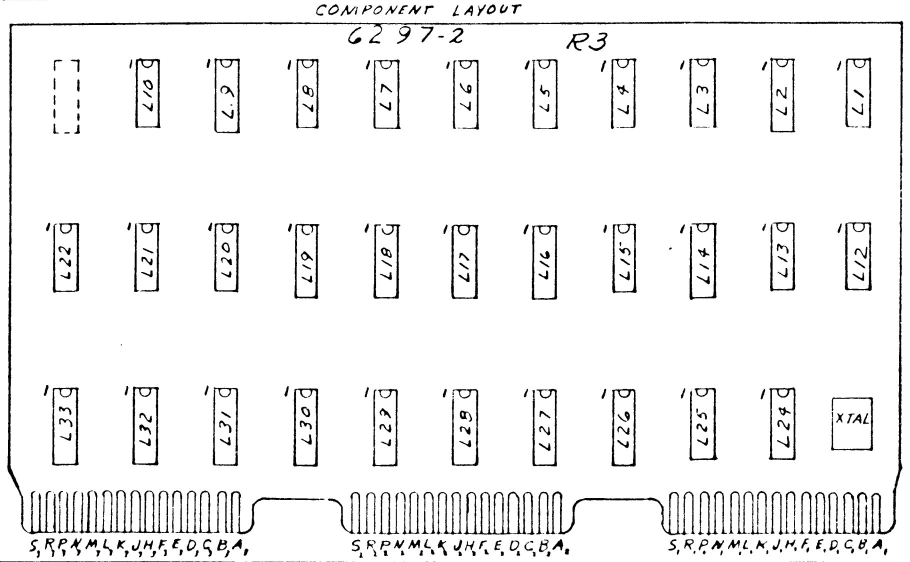
SHT 1 OF 1 — D — DWG NO 6297-10 — REV 4





COMPONENT LAYOUT

6297-2 R3



LOCATION	TYPE	W.L. PART No.	TERM. NO. ±0V	TERM. NO. Vcc +5VR	QTY
L1, 4	SN74[illegible]N	376-0003	7	14	2
L2, 14	SN74195N	376-0077	8	16	2
L3	SN7402N	376-0016	7	14	1
L5	SN7420N	376-0004	7	14	1
L6, 13, 20, 24	SN7404N	376-0010	7	14	4
L7, 12	SN7400N	376-0002	7	14	2
L8, 10	9321	376-0096	8	16	2
L9, 15	SN7408N	376-0081	7	14	2
L16, 17, 18	SN74170N	376-0095	8	16	3
L19, 26, 30, 31, 32, 33	SN74157N	376-0092	8	16	6
L21, 25	SN7432N	376-0093	7	14	2
L22	SN7473N	376-0006	11	4	1
L27, 28, 29	SN74193N	376-0053	8	16	3

COMP.	SIZE/TYPE	W.L. PART NO.	QTY
R1	[illegible] 1/4W	330-2018	1
R2	1.8K 1/4W	330-3018	1
R3, 4	220Ω 1/4W	330-2022	2
R5, 8	4.7K 1/4W	330-3047	2
R6	10K 1/4W	330-4010	1
R7	6.8K 1/4W	330-3068	1
C1, 12	15MF 20V TANT	300-4022	2
C2, 3, 4, 5, 6, 7, 8, 9, 10, 11	.05MF CER	300-1900	10
C12	3.2MF 20V TANT	300-4028	1
XTAL	10 MHz	321-0005	1
R9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	2.2K 1/4W	330-3022	12

REVISION		
1	REVISED PER ECN #3779 APP'D	8-3-73
2	REVISED PER RFA #0356 APP'D	8-24-73
3	REVISED PER ECN #3877 APP'D	10-23-73
4	REVISED PER ECN #4074 APP'D	4/8/74

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 730 DRAWN CHECKED APP.

TITLE SCHEMATIC LOGIBLOC 6297-2 MICRO PROCESSOR

SHT 1 OF 1 DWG NO. D 6297-11 REV 4

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		

SOFTWARE LOADING VARIATION CHART

VARIATION	-10	-11	-12	-13	-14	-15	-16	-17	-18	-19
SEE P.C. BD. LAYOUT	630-1	630-2	630-3	730-1	730-2	730-3	2230-1	2230-2	2230-3	640-1
L3	378-0184	378-0188	378-0192	378-0163	378-0167	378-0171	378-0196R1	378-0202R1	378-0208R1	378-0227R1
L7	378-0185	378-0189	378-0193	378-0164	378-0168	378-0172	378-0197R1	378-0203R1	378-0209R1	378-0228R1
L4	378-0186R1	378-0190R1	378-0194R1	378-0165R1	378-0169R1	378-0173R1	378-0198R1	378-0204R1	378-0210R1	378-0229R3
L8	378-0187	378-0191	378-0195	378-0166	378-0170	378-0174	378-0199R1	378-0205R1	378-0211R1	378-0230R3
L1	-----	-----	-----	-----	-----	-----	378-0200R1	378-0206R1	378-0212R1	-----
L5	-----	-----	-----	-----	-----	-----	378-0201R1	378-0207R1	378-0213R1	-----
L2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
L6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

VARIATION	-20	-21	-22	-23	-24	-25	-26	-27		
SEE P.C. BD. LAYOUT	640-2	740-1	740-2	2240-1	2240-2	2242	2243	2260		
L3	378-0231R1	378-0214	378-0220	378-0235R5	378-0239R5	378-0279R3	378-0283R6	378-0356		
L7	378-0232R1	378-0215	378-0221	378-0236R5	378-0240R5	378-0280R3	378-0284R6	378-0357		
L4	378-0233R3	378-0216	378-0222	378-0237R3	378-0241R3	378-0281R2	378-0285R4	378-0358		
L8	378-0234R3	378-0217R1	378-0223R1	378-0238R3	378-0242R3	378-0282R2	378-0286R4	378-0359		
L1	-----	378-0218R2	378-0224R2	-----	-----	-----	-----	378-0360		
L5	-----	378-0219R2	378-0225R2	-----	-----	-----	-----	378-0361		
L2	-----	-----	-----	-----	-----	-----	-----	-----		
L6	-----	-----	-----	-----	-----	-----	-----	-----		

COMPONENT	SIZE/TYPE	W.L. PART No.	QTY
R1	15K 1/4W	330-4015	1
R2	12K 1/4W	330-4012	1
R3	100Ω 1/4W	330-2010	1
R4, 5, 6	2.2K 1/4W	330-3022	3
C1	33μf 15V TANT	300-4019	1
C2	.01μf MYLAR	300-2110	1
C3	.001μf MYLAR	300-2010	1
C4, 15	15μf 20V TANT	300-4022	2
C5, 6, 7, 8, 9, 10, 11, 12, 13, 14	.01μf CER	300-1903	10
D1, 2	DIODE SIL	380-1001	2
	16 PIN CONN.	376-9002	8
	24 PIN CONN	376-9003	8
C16	33μf 15V TANT	300-4019	1
C17	.002μf CER	300-1913	1
R7, R8	2.7K 1/4W	330-3027	2

	LOCATION	TYPE	W.L. PART No.	TERM. No. ±0V	TERM. No. Vcc +5VR	QTY
✳	L1, ,3, 4, 5, ,7, 8	1702A	377-0009	—	12	
	L9, 10, 11	SN74161N/9316	376-0094	8	16	3
	L12, 13, 14, 15, 28, 29, 30, 31, 32	SN74195N	376-0097	8	16	9
	L16, 37	SN7400N	376-0002	7	14	2
	L17, 27A	SN7402N	376-0016	7	14	2
	L18, 19, 20, 21, 22, 23, 24, 25	2102	377-0069	9	10	8
	L26, 27	SN7404N	376-0010	7	14	2
	L33, 34	SN74157N	376-0082	8	16	2
	L35	SN7473N	376-0005	11	4	1
	L36	SN74123N	376-0080	8	16	1

✳ SEE LOADING VARIATION CHART ELSEWHERE ON SCHEMATIC.
L2 AND L6 NOT LOADED.

NOTE 1: THIS BOARD IS USED ON THE FOLLOWING MODELS: 630, 730, 2230, 640, 740, 2240, 2242, 2243.

REVISION														
	[illegible]	[illegible]	[illegible]	CK	CK	[illegible]	F.S.S.	FSS	EBA.	CK.	F.S.S.	DRC	EBA	FSS
DATE	8-3-73	11-7-73	11-16-73	6-3-74	6-4-74	6-25-74	6-28-74	7-5-74	8-[illegible]-75	9-13-74	9-24-74	10-24-74	12/12/74	2-1-75
LTR	1	2	3	4	5	6	7	8	9	10	11	12	13	14

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	JB	3-29-73	E ENGR	
CHK	M. [illegible]		M ENGR J. W. [illegible]	7-7-73
E. C. CONTROL			MFG ENGR	

MATERIAL

MODEL NO. SEE NOTE #1

SEE ENGRG SPECIFICATIONS No

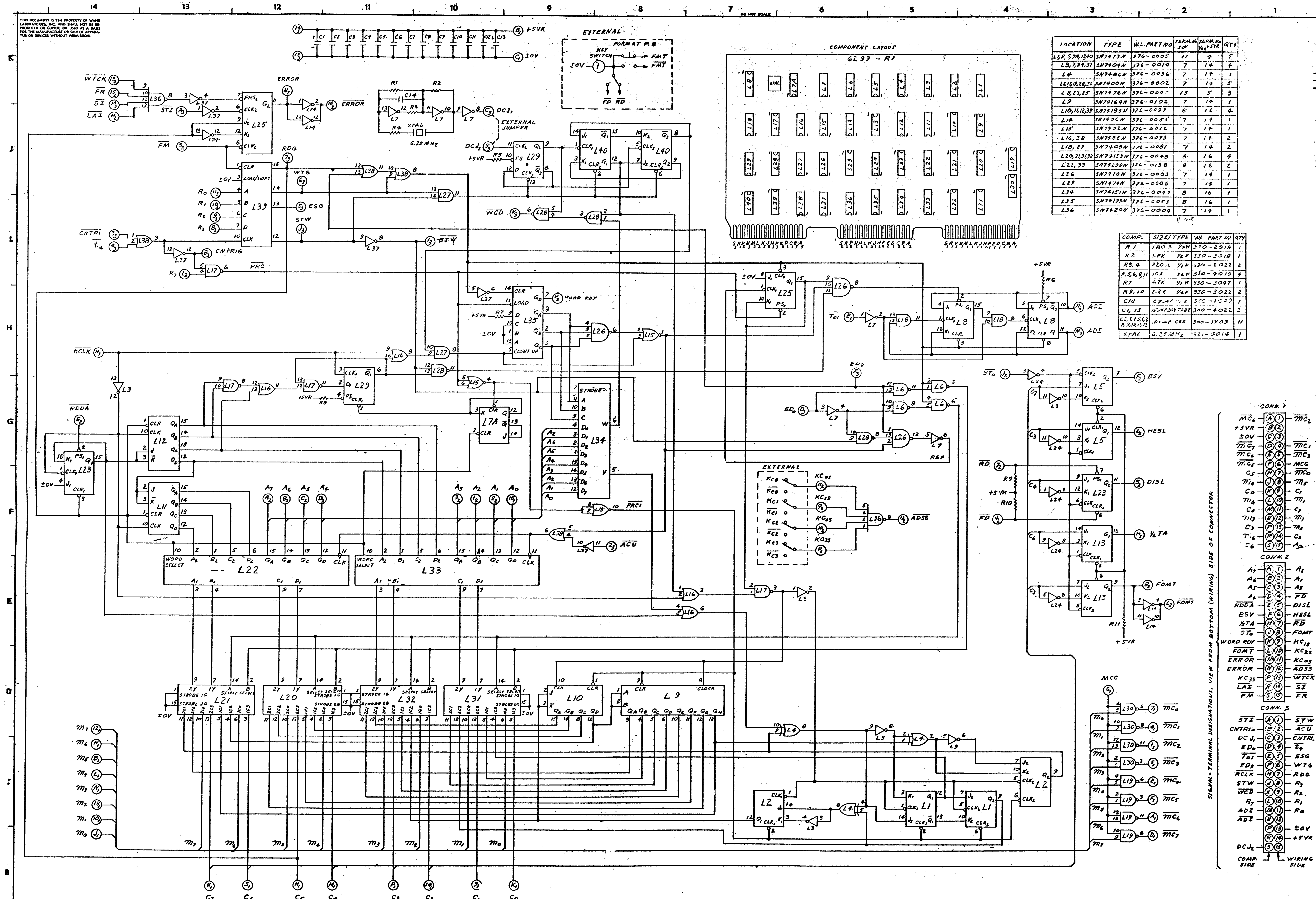
FINISH

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

SCALE SHT 4 OF 5

TITLE SCHEMATIC, LOGIBLOC 6298 MICRO-PROCESSOR RAM, ROM MEMORY

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.
216-6298	E	6298	14



LOCATION	TYPE	W.L. PART NO	TERM. No ±0V	TERM. No Vcc +5VR	QTY
L1,2,5,7A,13,40	SN7473N	376-0005	11	4	5
L3,7,24,37	SN7409N	376-0010	7	14	4
L4	SN7486N	376-0036	7	14	1
L6,17,19,28,30	SN7400N	376-0002	7	14	5
L8,23,25	SN7476N	376-0007	13	5	3
L9	SN74164N	376-0102	7	14	1
L10,11,12,39	SN74195N	376-0097	8	16	4
L14	SN7406N	376-0055	7	14	1
L15	SN7402N	376-0016	7	14	1
L16,38	SN7432N	376-0093	7	14	2
L18,27	SN7408N	376-0081	7	14	2
L20,21,31,32	SN74153N	376-0048	8	16	4
L22,33	SN74298N	376-0138	8	16	2
L26	SN7410N	376-0003	7	14	1
L29	SN7474N	376-0006	7	14	1
L34	SN74151N	376-0047	8	16	1
L35	SN74193N	376-0053	8	16	1
L36	SN7420N	376-0004	7	14	1

COMP.	SIZE/TYPE	W.L. PART NO.	QTY
R1	180Ω ¼W	330-2018	1
R2	1.8K ½W	330-3018	1
R3,4	220Ω ¼W	330-2022	2
R,5,6,8,11	10K ¼W	330-4010	4
R7	4.7K ½W	330-3047	1
R9,10	2.2K ¼W	330-3022	2
C14	47 [illegible]	300-1047	1
C1, 13	15MF 20V TANT.	300-4022	2
C2,3,4,5,6,7, 8,9,10,11,12	.01MF CER.	300-1903	11
XTAL	6.25MHz	321-0014	1

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION

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

	BY	DATE	APPROVED BY	DATE
DWN	[illegible]	4-10-7[illegible]	E ENGR	
CHK	E. [illegible]		M ENGR [illegible]	27-7-73
E C CONTROL			MFG ENGR	

MATERIAL

MODEL NO. 730

SEE ENGRG SPECIFICATIONS No

FINISH

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

TITLE SCHEMATIC LOGIBLOC 6299 DISK CONTROL

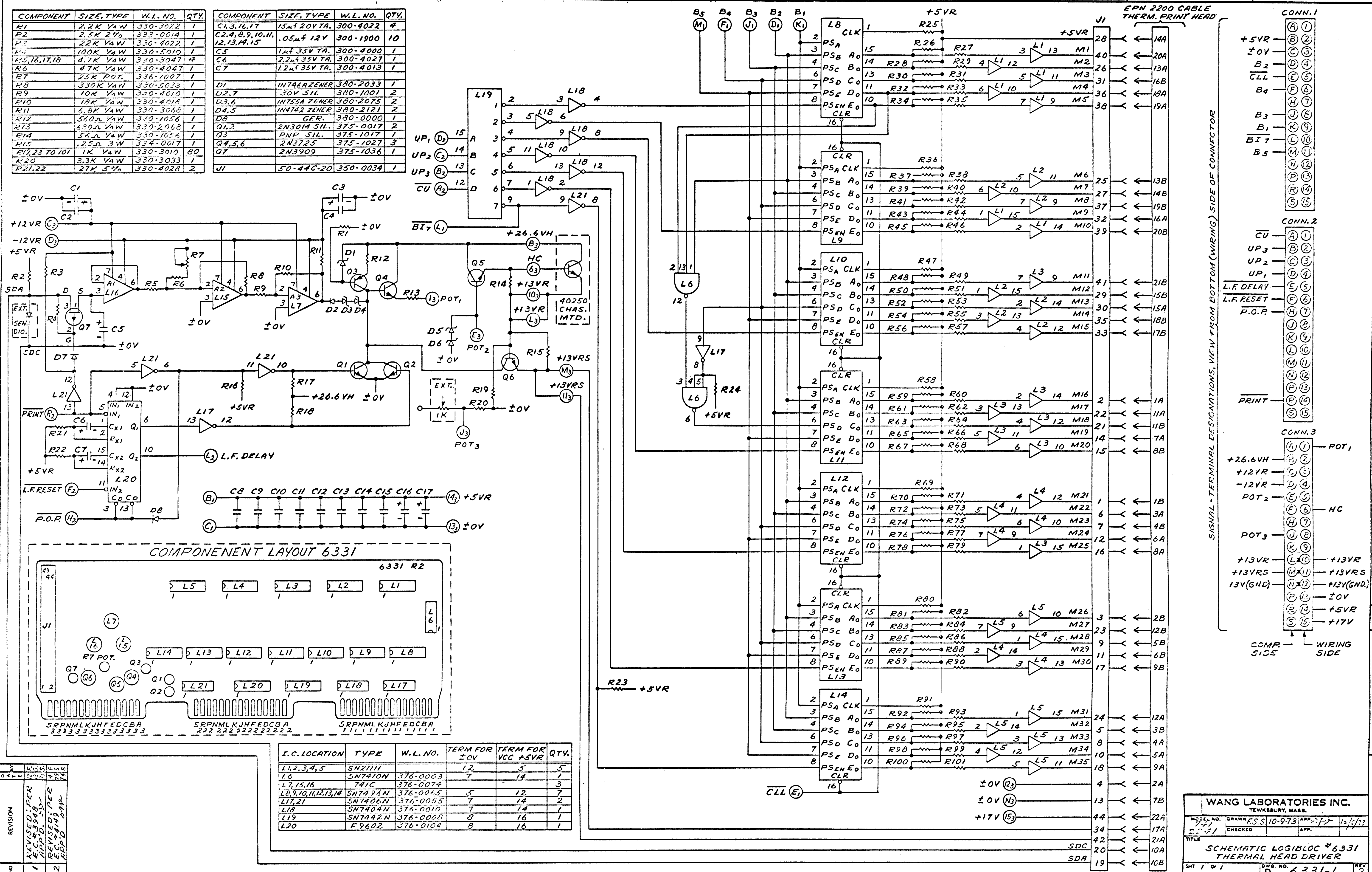
WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.
510-6299	E	6299-1	

SCALE SHT OF

REVISION

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1	2.2K 1/4W	330-3022	1
R2	2.5K 2%	333-0014	1
R3	22K 1/4W	330-4022	1
R4	100K 1/4W	330-5010	1
R5,16,17,18	4.7K 1/4W	330-3047	4
R6	47K 1/4W	330-4047	1
R7	25K POT.	336-1007	1
R8	330K 1/4W	330-5033	1
R9	10K 1/4W	330-4010	1
R10	18K 1/4W	330-4018	1
R11	6.8K 1/4W	330-3068	1
R12	560Ω 1/4W	330-1056	1
R13	680Ω 1/4W	330-2068	1
R14	56Ω 1/4W	330-1056	1
R15	.25Ω 3W	334-0017	1
R19,23 TO 101	1K 1/4W	330-3010	80
R20	3.3K 1/4W	330-3033	1
R21,22	27K 5%	330-4028	2

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
C1,3,16,17	15µf 20V TA.	300-4022	4
C2,4,8,9,10,11,12,13,14,15	.05µf 12V	300-1900	10
C5	1µf 35V TA.	300-4000	1
C6	2.2µf 35V TA.	300-4027	1
C7	1.2µf 35V TA.	300-4013	1
D1	IN746A ZENER	380-2033	1
D2,7	30V SIL	380-1001	2
D3,6	IN755A ZENER	380-2075	2
D4,5	IN4742 ZENER	380-2121	2
D8	GER.	380-0000	1
Q1,2	2N3014 SIL.	375-0017	2
Q3	PNP SIL.	375-1017	1
Q4,5,6	2N3725	375-1027	3
Q7	2N3909	375-1036	1
J1	50-44C-20	350-0034	1



I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±OV	TERM FOR VCC +5VR	QTY.
L1,2,3,4,5	SN21111		12	5	5
L6	SN7410N	376-0003	7	14	1
L7,15,16	741C	376-0074			3
L8,9,10,11,12,13,14	SN7496N	376-0065	5	12	7
L17,21	SN7406N	376-0055	7	14	2
L18	SN7404N	376-0010	7	14	1
L19	SN7442N	376-0008	8	16	1
L20	F9602	376-0104	8	16	1

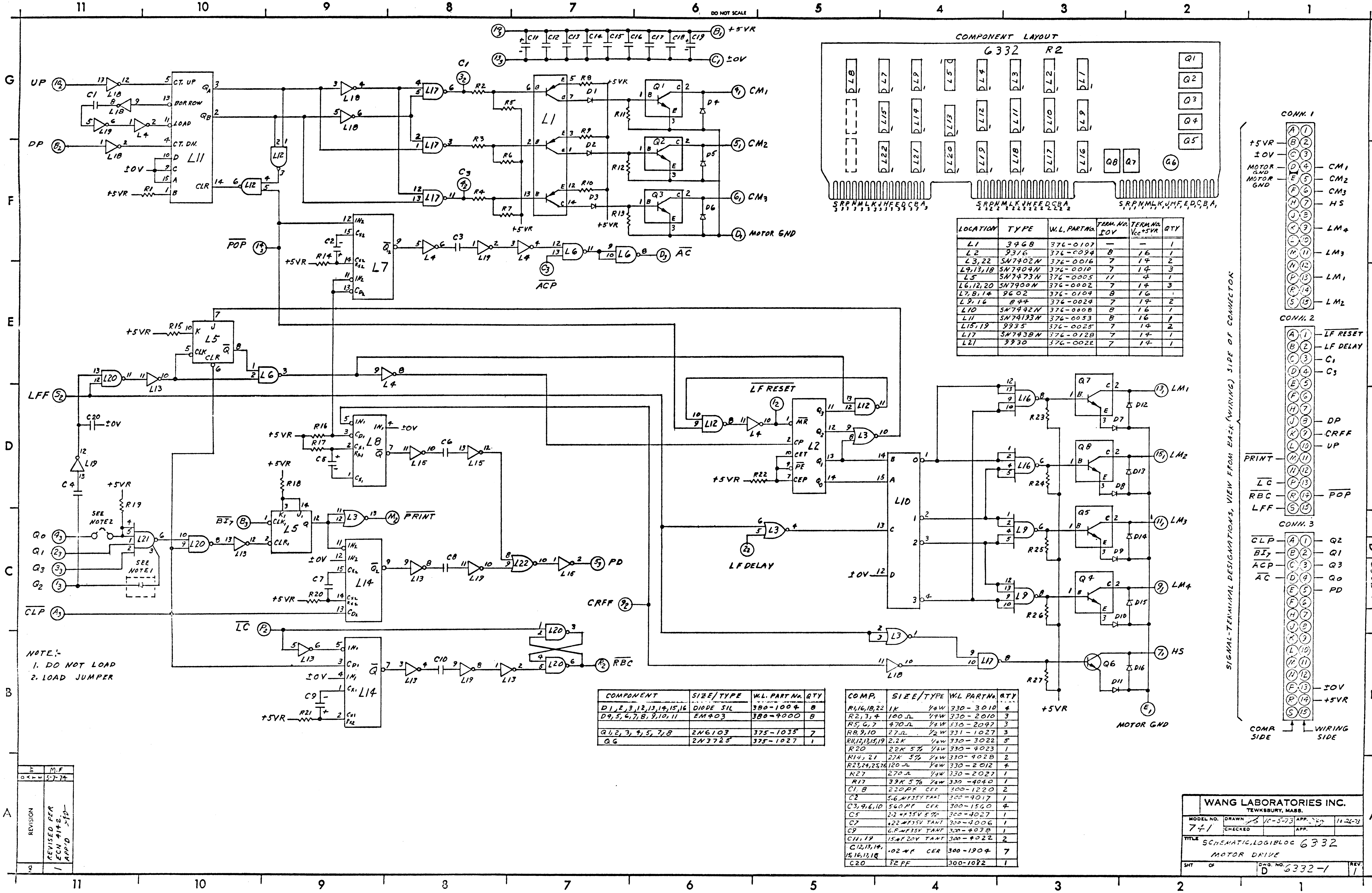
REVISION
1 REVISED: PER E.C. 3948 APP'D.
2 REVISED: PER E.C. 4149 APP'D.

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 7-41 / 2241 | DRAWN F.S.S. 10-9-73 | APP. 10/6/73 | CHECKED | APP.

TITLE: SCHEMATIC LOGIBLOC #6331 THERMAL HEAD DRIVER

SHT 1 OF 1 | DWG. NO. D 6331-1 | REV. 2



LOCATION	TYPE	W.L. PART No.	TERM. No. ±0V	TERM No. Vcc +5VR	QTY
L1	3968	376-0107	—	—	1
L2	9316	376-0094	8	16	1
L3,22	SN7402N	376-0016	7	14	2
L4,13,18	SN7404N	376-0010	7	14	3
L5	SN7473N	376-0005	11	4	1
L6,12,20	SN7400N	376-0002	7	14	3
L7,8,14	9602	376-0104	8	16	
L9,16	844	376-0024	7	14	2
L10	SN7442N	376-0008	8	16	1
L11	SN74193N	376-0053	8	16	1
L15,19	9935	376-0025	7	14	2
L17	SN7438N	376-0128	7	14	1
L21	9930	376-0022	7	14	1

COMPONENT	SIZE/TYPE	W.L. PART No.	QTY
D1,2,3,12,13,14,15,16	DIODE SIL	380-1004	8
D4,5,6,7,8,9,10,11	EM403	380-4000	8
Q1,2,3,4,5,7,8	2N6103	375-1035	7
Q6	2N3725	375-1027	1

COMP.	SIZE/TYPE	W.L PART No.	QTY
R1,16,18,22	1K 1/4W	330-3010	4
R2,3,4	100Ω 1/4W	330-2010	3
R5,6,7	470Ω 1/4W	330-2047	3
R8,9,10	27Ω 1/2W	331-1027	3
R11,12,13,15,19	2.2K 1/4W	330-3022	5
R20	22K 5% 1/4W	330-4023	1
R14,21	27K 5% 1/4W	330-4028	2
R23,24,25,26	120Ω 1/4W	330-2012	4
R27	270Ω 1/4W	330-2027	1
R17	39K 5% 1/4W	330-4040	1
C1,8	220PF CER	300-1220	2
C2	5.6 μF 35V TANT	300-4017	1
C3,4,6,10	560PF CER	300-1560	4
C5	2.2 μF 35V 5%	300-4027	1
C7	.22 μF 35V TANT	300-4006	1
C9	6.8 μF 35V TANT	300-4038	1
C11,19	15 μF 20V TANT	300-4022	2
C12,13,14,15,16,17,18	.02 μF CER	300-1904	7
C20	82PF	300-1082	1

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
741	[illegible]	10-5-73	[illegible]	10-26-73
	CHECKED		APP.	

TITLE: SCHEMATIC, LOGIBLOC 6332 MOTOR DRIVE

SHT OF — DWG. NO. D 6332-1 — REV. 1

DO NOT SCALE

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1,8,11	3.9K 1/4W	330-3039	3
R2	39K 1/4W 5%	330-4040	1
R3	1K 1/4W 5%	330-3011	1
R4,9,14,15,16	22K 1/4W 5%	330-4023	5
R5	2.2K 1/4W 5%	330-3023	1
R6	2.2K 1/4W	330-3022	1
R7	1.5K 1/4W	330-3015	1
R10,12	47K 1/4W 5%	330-4048	2
R13,17,18,19,20,21,22,23	1K 1/4W	330-3010	8
R24,25,26,27	220Ω 1/4W	330-2022	4
C1,9,10,13	.05μf 12V	300-1900	4
C2,18,24	220μμf CER.	300-1220	3
C3	.47μf 35V TA.	300-4001	1
C4	.22μf 35V TA.	300-4006	1
C5,6,14,15,21,22,23	560μμf CER.	300-1560	7
C7	.01μf 25V	300-1903	1
C8	3.3μf 15V TA.	300-4016	1
C11	1.2μf 35V TA.	300-4026	1
C12,16	2.2μf 20V TA.	300-4023	2
C19	.33μf 35V TA.	300-4008	1
C20	1μf 35V TA.	300-4000	1
C25	68μμf CER.	300-1068	1
C26,27,28,29,30,31,32,33,34	.02μf 25V	300-1904	9
C35,36	15μf 20V	300-4022	2
C17	.68μf 35V TA.	300-4011	1
D1,2,3,4,5,6,7,8	30V SIL.	380-1001	8

I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1,5,7,22,26,29	SN7404N	376-0010	7	14	6
L2,4,8,27	F9602	376-0104	8	16	4
L3,6	F9935	376-0025	7	14	2
L9,18,19,28	F9316	376-0094	8	16	4
L10	SN7414N	376-0139	7	14	1
L11,14,16,23	SN7400N	376-0002	7	14	4
L12,15	SN7410N	376-0003	7	14	2
L13,24	F9930	376-0022	7	14	2
L17,25	SN7473N	376-0005	11	4	2
L20	SP380A	376-0061	1	8	1
L21	SN7402N	376-0016	7	14	1

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

CONN.1

	A 1	-12VR
+5VR	B 2	
±0V	C 3	
COL1	D 4	C1
COL80	E 5	C3
ENC	F 6	
	H 7	
COL6	J 8	
CRRST	K 9	
BSFF	L 10	
ACP	M 11	
UP	N 12	
PD	P 13	
CRFF	R 14	
	S 15	HV

CONN.2

	A 1	
CLL	B 2	
POP	C 3	
DP	D 4	
	E 5	
	F 6	
	H 7	
	J 8	
	K 9	
	L 10	
	M 11	
	N 12	
	P 13	
MR	R 14	
CLP	S 15	

CONN.1

	A 1	
	B 2	
	C 3	
	D 4	
	E 5	
	F 6	
	H 7	
Q0	J 8	
Q1	K 9	
Q2	L 10	
Q3	M 11	
D1	N 12	
D2	P 13	D3
	R 14	D4
CLK	S 15	±0V
	T 16	+5VR

COMP. SIDE — WIRING SIDE

COMPONENT LAYOUT 6333

6333 RO

L9 L8 L7 L6 L5 L4 L3 L2 L1
L19 L18 L17 L16 L15 L14 L13 L12 L11 L10
L29 L28 L27 L26 L25 L24 L23 L22 L21 L20

SRPNMLKJHFEDCBA 333333333333333
SRPNMLKJHFEDCBA 222222222222222
SRPNMLKJHFEDCBA 111111111111111

REVISION	BY	DATE
REVISED PER E.C.O. 5944		

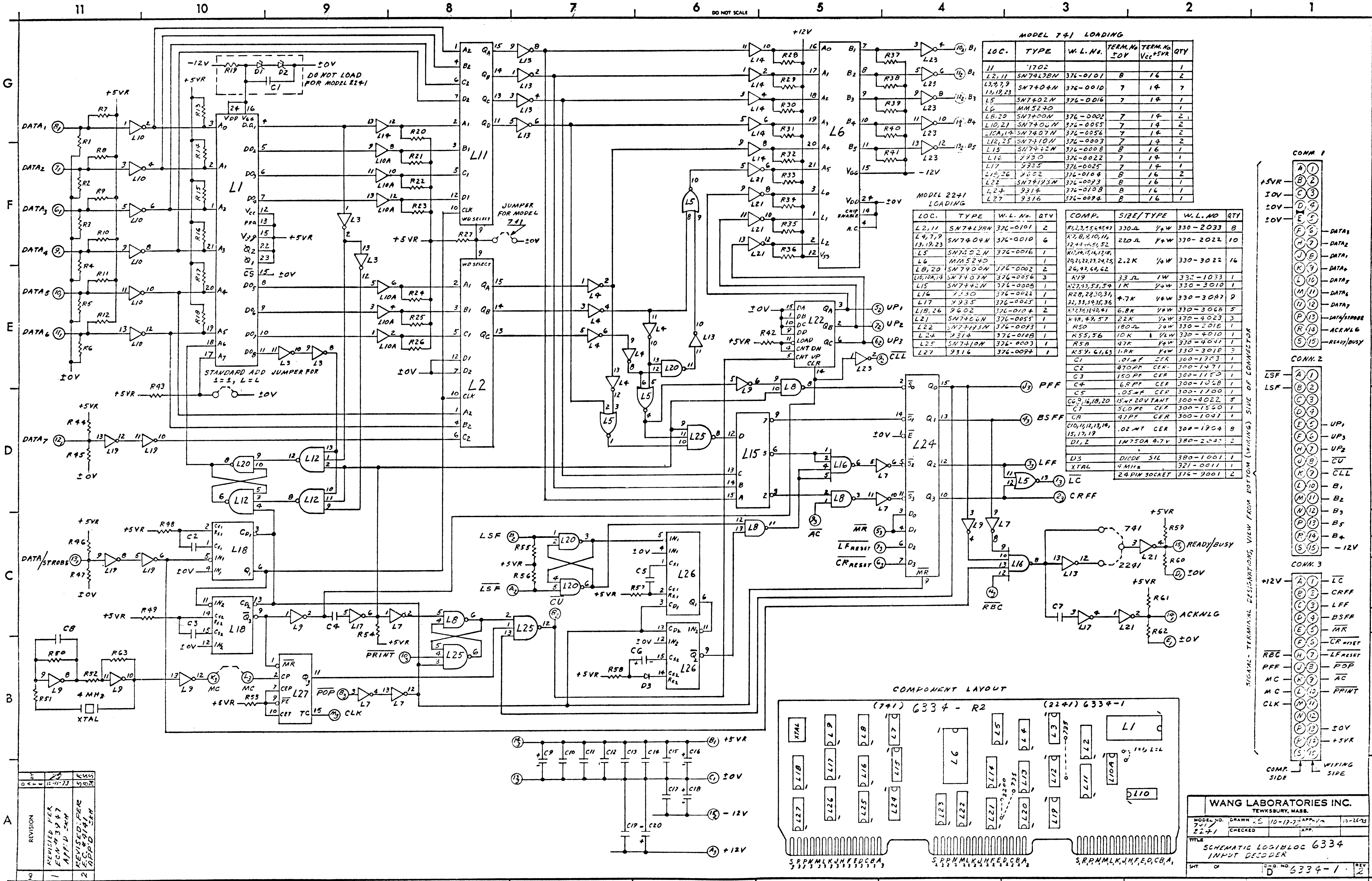
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	CHECKED	APP.	APP.
741/22-41	F.S.S. 10-15-73			10-24-73

TITLE: SCHEMATIC LOGIBLOC #6333 MOTOR TIMING

SHT 1 OF 1 | DWG NO. D 6333-1 | REV 1

D 6333-1



MODEL 741 LOADING

LOC.	TYPE	W. L. No.	TERM. No ±OV	TERM. No Vcc +5VR	QTY
L1	1702				1
L2, 11	SN74L98N	376-0101	8	16	2
L3, 4, 7, 9, 13, 19, 23	SN7404N	376-0010	7	14	7
L5	SN7402N	376-0016	7	14	1
L6	MM5240				1
L8, 20	SN7400N	376-0002	7	14	2
L10, 21	SN7406N	376-0055	7	14	2
L10A, 14	SN7407N	376-0056	7	14	2
L12, 25	SN7410N	376-0003	7	14	2
L15	SN7442N	376-0008	8	16	1
L16	9930	376-0022	7	14	1
L17	9935	376-0025	7	14	1
L18, 26	9602	376-0104	8	16	2
L22	SN74193N	376-0093	8	16	1
L24	9314	376-0108	8	16	1
L27	9316	376-0094	8	16	1

MODEL 2241 LOADING

LOC.	TYPE	W. L. No.	QTY
L2, 11	SN74L98N	376-0101	2
L4, 7, 9, 13, 19, 23	SN7404N	376-0010	6
L5	SN7402N	376-0016	1
L6	MM5240		1
L8, 20	SN7400N	376-0002	2
L10, 10A, 14	SN7407N	376-0056	3
L15	SN7442N	376-0008	1
L16	9930	376-0022	1
L17	9935	376-0025	1
L18, 26	9602	376-0104	2
L21	SN7406N	376-0055	1
L22	SN74193N	376-0093	1
L24	9314	376-0108	1
L25	SN7410N	376-0003	1
L27	9316	376-0094	1

COMP.	SIZE/TYPE	W. L. NO	QTY
R1, 2, 3, 4, 5, 6, 45, 47	330Ω 1/4W	330-2033	8
R7, 8, 9, 10, 11, 12, 44, 46, 51, 52	220Ω 1/4W	330-2022	10
R13, 14, 15, 16, 17, 18, 20, 21, 22, 23, 24, 25, 26, 42, 60, 62	2.2K 1/4W	330-3022	16
R19	33Ω 1W	332-1033	1
R27, 43, 53, 54	1K 1/4W	330-3010	1
R28, 29, 30, 31, 32, 33, 34, 35, 36	4.7K 1/4W	330-3047	9
R37, 38, 39, 40, 41	6.8K 1/4W	330-3068	5
R48, 49, 57	22K 1/4W	330-4023	3
R50	180Ω 1/4W	330-2018	1
R55, 56	10K 1/4W	330-4010	1
R58	47K 1/4W	330-4047	1
R59, 61, 63	1.8K 1/4W	330-3018	3
C1	.01µf CER	300-1703	1
C2	470PF CER	300-1471	1
C3	150PF CER	300-1150	1
C4	68PF CER	300-1068	1
C5	.05µf CER	300-1700	1
C6, 9, 16, 18, 20	15µf 20V TANT	300-4022	5
C7	560PF CER	300-1560	1
C8	47PF CER	300-1047	1
C10, 11, 12, 13, 14, 15, 17, 19	.02µf CER	300-1904	8
D1, 2	1N750A 4.7V	380-2047	2
D3	DIODE SIL	380-1001	1
XTAL	4 MHz	321-0011	1
	24 PIN SOCKET	376-9001	2

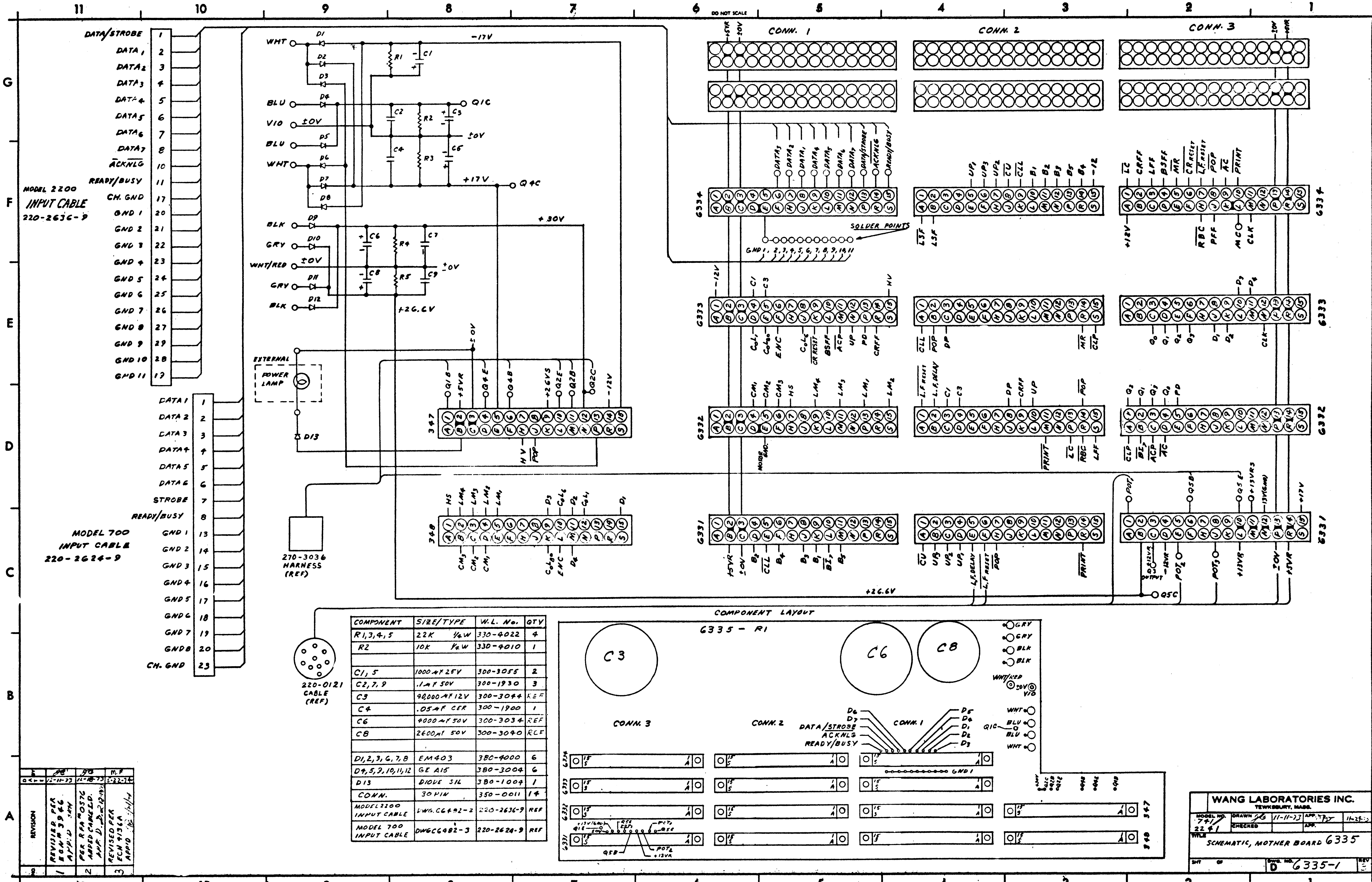
REVISION		
1	REVISED PER ECN #3947 APP'D SKM	12-11-73
2	REVISED PER ECN #4141 APP'D SKM	

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 741 / 2241 — DRAWN JS 10-17-73 — APP. 10-26-73 — CHECKED — APP.

TITLE: SCHEMATIC LOGIBLOC 6334 INPUT DECODER

SHT OF — DWG. NO. D 6334-1 — REV 2



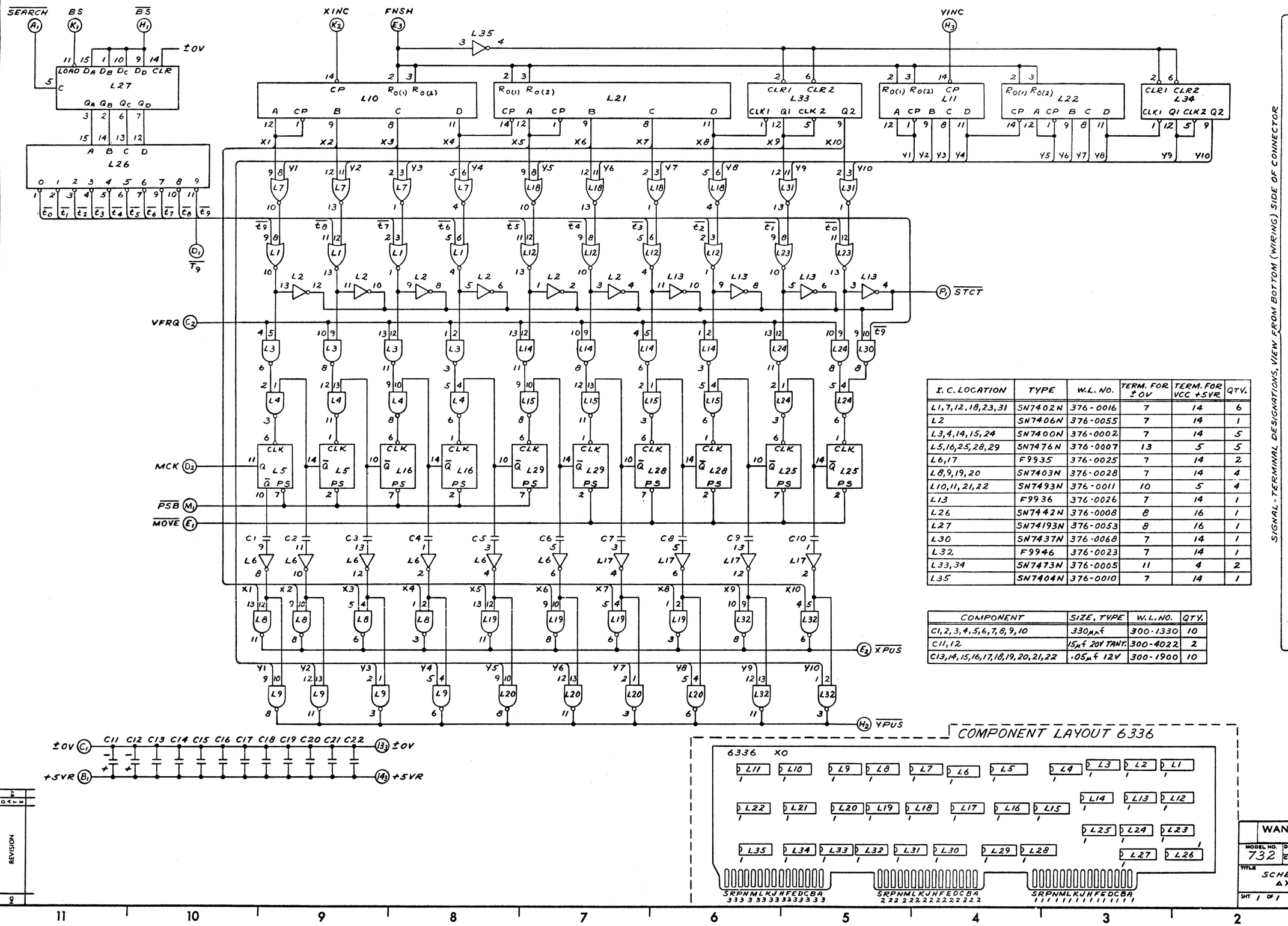
COMPONENT	SIZE/TYPE	W.L. No.	QTY
R1,3,4,5	22K ¼W	330-4022	4
R2	10K ¼W	330-4010	1
C1, 5	1000 µF 25V	300-3055	2
C2, 7, 9	.1 µF 50V	300-1930	3
C3	40,000 µF 12V	300-3044	REF
C4	.05 µF CER	300-1900	1
C6	4000 µF 50V	300-3034	REF
C8	2600 µF 50V	300-3040	REF
D1,2,3,6,7,8	EM403	380-4000	6
D4,5,9,10,11,12	GE A15	380-3004	6
D13	DIODE SIL	380-1004	1
CONN.	30 PIN	350-0011	14
MODEL 2200 INPUT CABLE	DWG. C6492-2	220-2636-9	REF
MODEL 700 INPUT CABLE	DWG C6482-3	220-2624-9	REF

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 741/2241 — DRAWN 11-11-73 — APP. 11-29-73 — CHECKED — APP.

TITLE: SCHEMATIC, MOTHER BOARD 6335

SHT OF — DWG. NO. D 6335-1 — REV 3



I.C. LOCATION	TYPE	W.L. NO.	TERM. FOR ±OV	TERM. FOR VCC +5VR	QTY.
L1,7,12,18,23,31	SN7402N	376-0016	7	14	6
L2	SN7406N	376-0055	7	14	1
L3,4,14,15,24	SN7400N	376-0002	7	14	5
L5,16,25,28,29	SN7476N	376-0007	13	5	5
L6,17	F9935	376-0025	7	14	2
L8,9,19,20	SN7403N	376-0028	7	14	4
L10,11,21,22	SN7493N	376-0011	10	5	4
L13	F9936	376-0026	7	14	1
L26	SN7442N	376-0008	8	16	1
L27	SN74193N	376-0053	8	16	1
L30	SN7437N	376-0068	7	14	1
L32	F9946	376-0023	7	14	1
L33,34	SN7473N	376-0005	11	4	2
L35	SN7404N	376-0010	7	14	1

COMPONENT	SIZE, TYPE	W.L.NO.	QTY.
C1,2,3,4,5,6,7,8,9,10	330μμf	300-1330	10
C11,12	15μf 20V TANT.	300-4022	2
C13,14,15,16,17,18,19,20,21,22	.05μf 12V	300-1900	10

CONN.1
SEARCH A1
+5VR B2
±OV C3
T9 D4
MOVE E5
BS H7
BS K9
PSB M11
STCT P13
R14
S15

CONN.2
VFRQ C3
MCK D4
XPUS E5
YPUS H7
XINC K9

CONN.3
FNSH E5
YINC H7
±OV P13
+5VR R14

COMP. SIDE — WIRING SIDE

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

COMPONENT LAYOUT 6336

REVISION	BY	DATE
NO		

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	CHECKED	APP.	APP.
732	F.S.S. 5-24-73			7/13/73

TITLE: SCHEMATIC LOGIBLOC #6336 ΔX ΔY CIRCUIT

SHT 1 OF 1 — DWG. NO. D 6336-1 — REV.

DO NOT SCALE

DO NOT SCALE

LOCATION	TYPE	W.L. PART NO.	TERM. NO. ±0V	TERM. NO. Vcc +5VR	QTY.
L1,2,10,12	SN7402N	376-0016	7	14	4
L3,13,16	9936	-0026	7	14	3
L4,5,24	SN74193N	-0053	8	16	3
L6	9946	-0023	7	14	1
L7	SN7410N	-0003	7	14	1
L8,9	9602	-0104	8	16	2
L11,14,23	SN7400N	-0002	7	14	3
L15,17	9935	-0025	7	14	2
L18	9935	-0025	7	14	1
L19	9930	-0022	7	14	1
L21	SN7474N	-0006	7	14	1
L	SN7442N	-0008	8	16	1
L21	SN7475N	-0013	12	5	1
L22,25	SN7476N	-0007	13	5	2
L26	SN7406N	376-0055	7	14	1

CONN.1

+5V	A1
±0V	B2
	C3
TKA1	D4
	E5
	F6
	H7
TKA0	J8
	K9
FNSH	L10
	M11
	N12
TKB2	P13
TKB1	R14
TKB0	S15

CONN.2

XINC	A1
TKB3	B2
YINC	C3
UX	D4
DX	E5
XPUS	F6
YPUS	H7
DY	J8
UY	K9
BS	L10
BS	M11
	N12
COUNT	P13
CLEAR	R14
T9	S15

CONN.3

MCK	A1
PSB	B2
MOVE	C3
TKWS	D4
	E5
	F6
	H7
	J8
RBS	K9
PENC	L10
	M11
ORG	N12
	P13 (±0V)
	R14 (+5V)
	S15

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

COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY.
R1-7	220Ω 1/4W	330-2022	7
R8-14	330Ω	-2033	7
R15,21,22,25,32	4.7K	-3047	5
R16,17,19,20,30	10K	-4010	5
R33	27K	-4027	1
R23,24	6.8K	-3068	2
R26	1K	-3010	1
R27	47Ω	-1047	1
R28	1.8K	-3018	1
R29	2.2K	-3022	1
R31	100Ω 1/4W	330-2010	1
C1,4	820pf	300-1820	2
C2,22,23	15μf,20V,TANT	-4022	3
C3	680pf	-1680	1
C5,6	220pf	-1220	2
C7,11	.0014f,200V	-1906	2
C8	47μf,20V	-4034	1
C9,12	330pf	-1330	2
C10	5.6μf,35V,TANT	-4017	1
C13-21	.05μf,12V	-1900	9
C24	.0047μf,100V,MYLAR	300-2047	1
D1	SIL DIODE 4B	380-1001	6
Q1	GT544 SIL	375-1017	1
Q2	2N3725	375-1027	1
	SM. TRANSIPAD	375-9004	2
R18,34	39K 1/4W	330-4039	2

COMPONENT LAYOUT

6337 R2

L9 L8 L7 L6 L5 L4 L3 L2 L1
SPARE L18 L17 L16 L15 L14 L13 L12 L11 L10
SPARE Q1 L26 L25 L24 L23 L22 L21 L20 L19
Q2
S R P N M L K J H F E D C B A 3
S R P N M L K J H F E D C B A 2
S R P N M L K J H F E D C B A 1

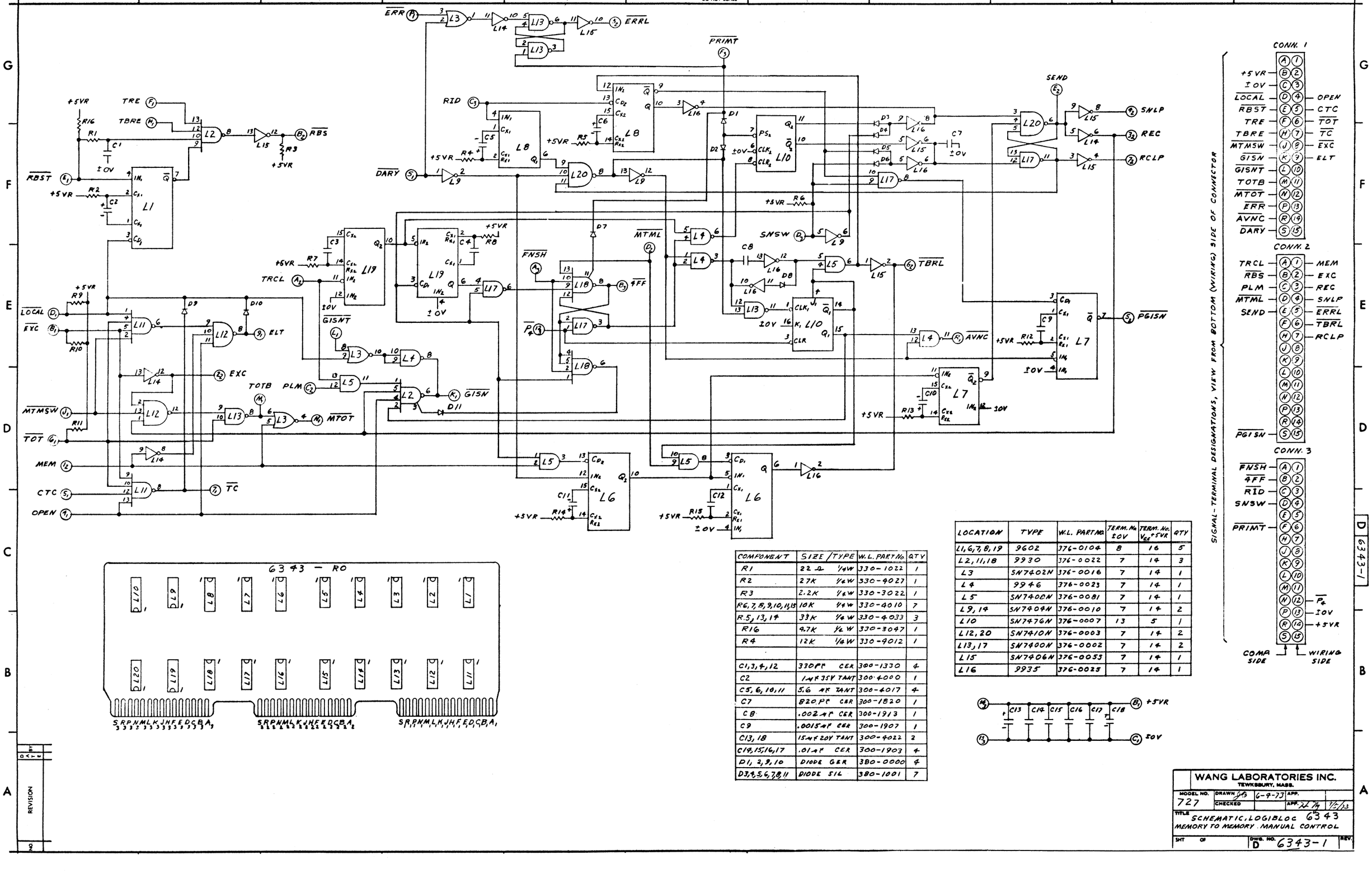
NO.	REVISION	BY	DATE
1	REVISED PER ECN #3796 AND SCH	GB	9-13-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	DATE	APP.
732	EK	5-23-73	
	CHECKED		APP.

TITLE: SCHEMATIC LOGIBLOC # 6337
PEN CONTROL & COMMAND DECODER

SHT OF | DWG. NO. D 6337-1 | REV. 1



COMPONENT	SIZE / TYPE	W.L. PART No.	QTY
R1	22 Ω ¼W	330-1022	1
R2	27K ½W	330-9027	1
R3	2.2K ½W	330-3022	1
R6,7,8,9,10,11,15	10K ½W	330-4010	7
R5,13,14	33K ½W	330-4033	3
R16	9.7K ½W	330-3047	1
R4	12K ½W	330-9012	1
C1,3,4,12	330PF CER	300-1330	4
C2	1MF 35V TANT	300-4000	1
C5,6,10,11	5.6 MF TANT	300-4017	4
C7	820 PF CER	300-1820	1
C8	.002 MF CER	300-1913	1
C9	.0015 MF CER	300-1907	1
C13,18	15 MF 20V TANT	300-4022	2
C14,15,16,17	.01 MF CER	300-1903	4
D1,2,9,10	DIODE GER	380-0000	4
D3,4,5,6,7,8,11	DIODE SIL	380-1001	7

LOCATION	TYPE	W.L. PART NO.	TERM. No. ±0V	TERM. No. V_{cc} +5VR	QTY
L1,6,7,8,19	9602	376-0104	8	16	5
L2,11,18	9930	376-0022	7	14	3
L3	SN7402N	376-0016	7	14	1
L4	9946	376-0023	7	14	1
L5	SN7408N	376-0081	7	14	1
L9,14	SN7404N	376-0010	7	14	2
L10	SN7476N	376-0007	13	5	1
L12,20	SN7410N	376-0003	7	14	2
L13,17	SN7400N	376-0002	7	14	2
L15	SN7406N	376-0053	7	14	1
L16	9935	376-0025	7	14	1

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

S R P N M L K J H F E D C B A
3 3 3 2 3 3 3 3 3 3 3 3 3 3

S R P N M L K J H F E D C B A
2 2 2 2 2 2 2 2 2 2 2 2 2 2

S R P N M L K J H F E D C B A
1 1 1 1 1 1 1 1 1 1 1 1 1 1

NO.	BY	REVISION
A		

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	DATE	APP.
727	CHECKED		APP.

TITLE: SCHEMATIC, LOGIBLOC 6343
MEMORY TO MEMORY . MANUAL CONTROL

SHT OF | DWG. NO. D 6343-1 | REV.

DO NOT SCALE

LOCATION	TYPE	W.L. PART NO.	TERM. NO -5V	TERM NO V_{CC} +5VR	QTY
L1,5,8	SN7410N	376-0003	7	14	3
L2,10	9993	376-0033	7	14	2
L3,24,26	SN7404N	376-0010	7	14	3
L4	SN7473N	376-0005	11	4	1
L6	9602	376-0104	8	16	1
L7,11,13,20	SN7400N	376-0002	7	14	4
L9,14	9946	376-0023	7	14	2
L12,19	9936	376-0026	7	14	2
L15	9935	376-0025	7	14	1
L16	SN7408N	376-0081	7	14	1
L17,18	SN74193N	376-0053	8	16	2
L21	SN7442N	376-0008	8	16	1
L22	SN7402N	376-0016	7	14	1
L23	9930	376-0022	7	14	1
L25	8242	376-0040	7	14	1

COMPONENT	SIZE/TYPE	W.L. PART No.	QTY
R1,2,3,4,6,7,8,9,10,11,12,13,14,15	22Ω 1/4W	330-1022	14
R5,16,18,22,24,25,26,27	10K 1/4W	330-4010	8
R17	47Ω 1/4W	330-1047	1
R19,23	22K 1/4W	330-4022	2
R20,21	6.8K 1/4W	330-3068	2
R28	4.7K 1/4W	330-3047	1
C1,2,3,4,5,6,7,8,9,10,11,12,13	150PF CER	300-1150	13
C15	5.6 MF 35V TANT	300-4017	1
C16	820 PF CER	300-1820	1
C17,18,23	.0015MF CER	300-1907	3
C19	.0068MF CER	300-1911	1
C20,21	330PF CER	300-1330	2
C22	220PF CER	300-1220	1
C24,30	15MF 20V TANT	300-4022	2
C25,26,27,28,29,14	.01MF CER	300-1903	6
C30	.002MF CER	300-1913	1
D1,2,3,4,5,6,7,8,9,10	DIODE SIL	380-1001	10

COMPONENT LAYOUT

6344-R1

L1 L11 L21 L2 L12 L3 L13 L22 L4 L14 L23 L5 L15 L6 L16 L24 L7 L17 L25 L8 L18 L9 L19 L26 L10 L20

SRPNMLKJHFEDCBA

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

CONN.1: +5VR, ±0V, GKBD, TRDA, OPEN, GISO, MTMSW, CTC

CONN.2: TBRL, P4, GPST, GLRN, GI0A0F, MEM, 4FF, FNSH, GI0B0F, GI0B3F, GI0B1F, GI0B0F, GI0B2F, PGISN

CONN.3: GI0B3F, SW0, SW1, SW3, SW2, GI0A3F, GPRN, GPRN, ±0V, +5VR

WIRING SIDE / COMP. SIDE

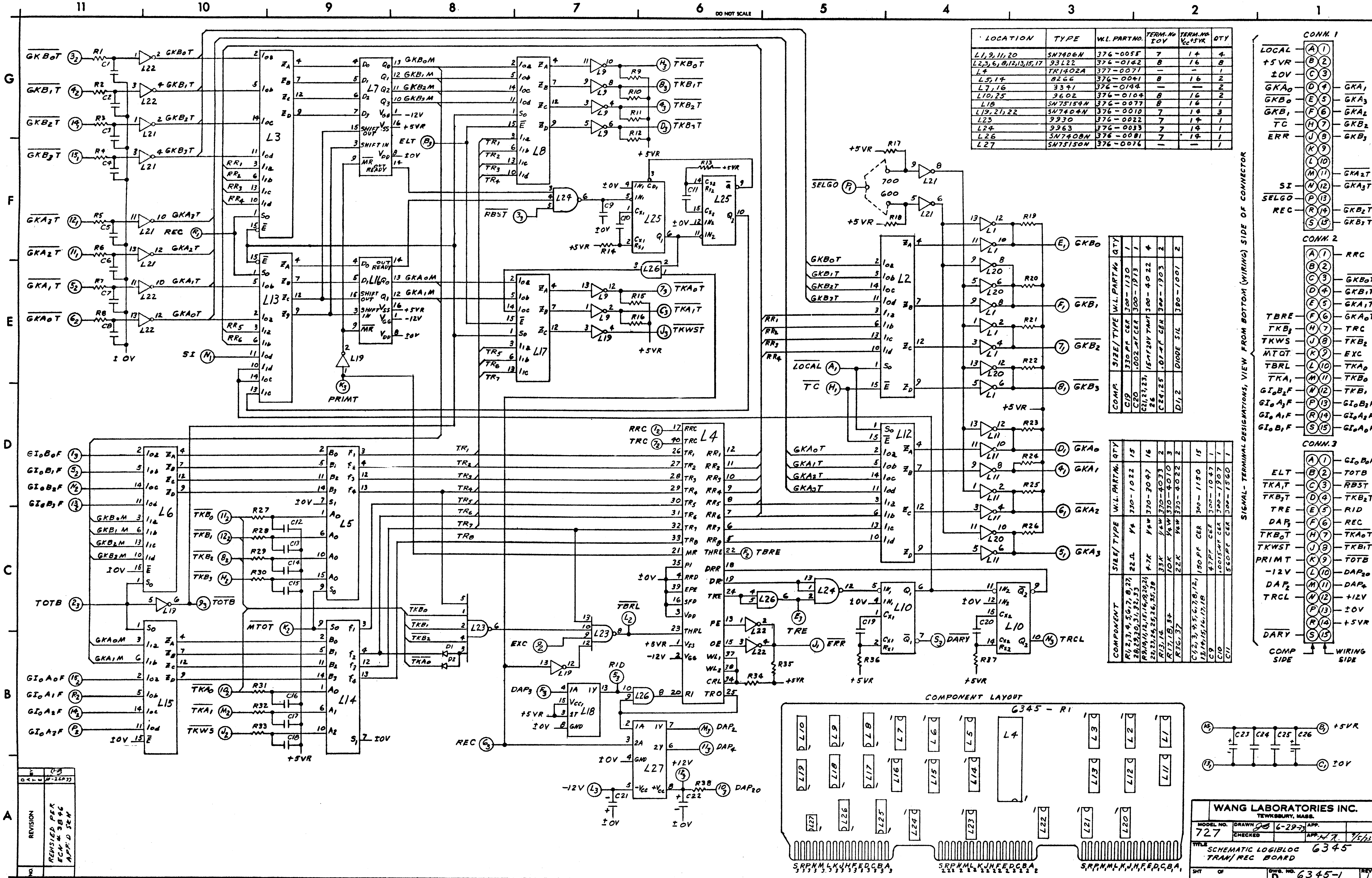
REVISION	DATE	BY	NO

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 727 | DRAWN | CHECKED | APP. | APP. | 6-19-73

TITLE SCHEMATIC LOGIBLOC 6344
MEMORY TO MEMORY AUTOMATIC CONTROL

SHT OF | DWG. NO. D 6344-1 | REV.



LOCATION	TYPE	W.L. PART NO.	TERM. No ±0V	TERM. No V_{CC} +5VR	QTY
L1,9,11,20	SN7406N	376-0055	7	14	4
L2,3,6,8,12,13,15,17	93L22	376-0142	8	16	8
L4	TR1402A	377-0071	—	—	1
L5,14	8266	376-0041	8	16	2
L7,16	3341	376-0144	—	—	2
L10,25	9602	376-0104	8	16	2
L18	SN75154N	376-0077	8	16	1
L19,21,22	SN7404N	376-0010	7	14	3
L23	9930	376-0022	7	14	1
L24	9963	376-0033	7	14	1
L26	SN7408N	376-0081	7	14	1
L27	SN75150N	376-0076	—	—	1

COMP.	SIZE/TYPE	W.L. PART No	QTY
C19	330 PF CER	300-1130	1
C20	.002 MF CER	300-1913	1
C21,22,23, 26	15 MF 20V TANT	300-4022	4
C24,25	.01 MF CER	300-1903	2
D1,2	DIODE SIL	380-1001	2

COMPONENT	SIZE/TYPE	W.L. PART No.	QTY
R1,2,3,4,5,6,7,8,27, 28,29,30,31,32,33	22Ω 1/4	330-1022	15
R9,10,11,12,15,16,19,20,21, 22,23,24,25,26,35,38	4.7K 1/4W	330-3047	16
R13,14	33K 1/4W	330-4033	2
R17,18,34	10K 1/4W	330-4010	3
R36,37	22K 1/4W	330-4022	2
C1,2,3,4,5,6,7,8,12, 13,14,15,16,17,18	150 PF CER	300-1150	15
C9	47 PF CER	300-1047	1
C10	.0015 MF CER	300-1907	1
C11	560 PF CER	300-1560	1

REVISION: REVISED PER ECN # 3846 APP'D SCH

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 727 — DRAWN 6-29-73 — CHECKED — APP. 7/5/73

TITLE: SCHEMATIC LOGIBLOC TRAN/REC BOARD 6345

SHT OF — D — DWG. NO. 6345-1 — REV. 1

DO NOT SCALE

COMPONENT	SIZE/TYPE	W.L. PART No.	QTY
R1	180Ω ¼W	330-2018	1
R2	1.8K ¼W	330-3018	1
R3,4	220Ω ¼W	330-2022	2
R5,9,10,13,14	10K ¼W	330-4010	5
R6	22Ω ¼W	330-1022	1
R7,8	1K ¼W	330-3010	1
R11	33K ¼W	330-4033	1
R12	27K ¼W	330-4027	1
R15	3.3Ω ½W	331-0033	1
R16	470Ω ¼W	330-2047	1
R17	1K POT	336-1001	1
R18	2.7K ¼W	330-3027	1
R19	4.7K ¼W	330-3047	1
R20,22	10Ω ½W	331-1010	2
R21,23	470Ω ½W	331-2047	2
R24	22K ¼W	330-4022	1
C1,5	330PF CER	300-1330	2
C2	560PF CER	300-1560	1
C3	150PF CER	300-1150	1
C4	820PF CER	300-1820	1
C6	.1 MF CER	300-1901	1
C7	3.3 MF 15V TANT	300-4016	1
C8	.0015MF CER	300-1207	1
C9,10	.05MF CER	300-1900	2
C11,12	50MF 50V ELEC.	300-3010	2
C13,17	15MF 20V TANT	300-4022	2
C14,15,16	.01MF CER	300-1903	3
C17	.047 MF MYLAR	300-2147	1
D1,2,3,4,5,G1 11,13,14,16	DIODE SIL	380-1001	10
D7,8,9,10	EM403	380-4000	4
D12,15	IN759A 12V	380-2120	2
Q1	40250V1	375-1028	1
Q2	35224	375-1001	1
Q3	2N4234	375-1024	1
XTAL	8MHz	321-0009	1

LOCATION	TYPE	W.L. PART NO.	TERM. No ±0V	TERM. No V_{CC} +5VR	QTY
L1	723	376-0066	—	—	1
L2	SN7404N	376-0010	7	14	1
L3,9,13	SN7493N	376-0011	10	5	3
L5,10	9936	376-0026	7	14	2
L6	9935	376-0025	7	14	1
L7,14	9602	376-0104	8	16	2
L8,16,17	SN7408N	376-0081	7	14	3
L9	9930	376-0022	7	14	1
L11	SN7400N	376-0002	7	14	1
L12	SN7410N	376-0003	7	14	1
L15	SN7402N	376-0016	7	14	1

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

CONN. 1

+5VR	A 1	
±0V	B 2	
	C 3	
	D 4	
	E 5	+12V
	F 6	
	H 7	+5VR
	J 8	
	K 9	
	L 10	-12V
	M 11	12VAC
	N 12	-12VR
	P 13	12VAC
	R 14	+12VR
	S 15	+5V BASE

CONN. 2

$\overline{GKA_3T}$	A 1	$\overline{GKA_0T}$
$\overline{GKA_1T}$	B 2	
$\overline{GKB_2T}$	C 3	$\overline{GKA_2T}$
$\overline{GKB_3T}$	D 4	$\overline{PBSW}$
$\overline{GKB_2T}$	E 5	PBSW
$\overline{GKB_1T}$	F 6	CKCT
CK_0	H 7	SEND
CK_0	J 8	TRC
RRC	K 9	RID
$\overline{GIA_3T}$	L 10	GI_0A_3F
$\overline{DARY}$	M 11	TRDA
$\overline{TBRL}$	N 12	TRE
1200B	P 13	$\overline{TOT}$
600B	R 14	$\overline{GISNT}$
300B	S 15	GPRN

CONN. 3

$\overline{PRIMT}$	A 1	
SI	B 2	
GI_0B_1F	C 3	
$\overline{GIB_1T}$	D 4	
$\overline{GIA_0T}$	E 5	
GI_0A_0F	F 6	$\overline{GIB_2T}$
OPST	H 7	$\overline{GI_0B_2F}$
$\overline{GISO}$	J 8	$\overline{GIB_3T}$
$\overline{GISOT}$	K 9	GI_0B_3F
$\overline{I_0B_1T}$	L 10	GI_0A_2F
I_0B_1	M 11	$\overline{GIA_2T}$
$\overline{I_0B_3T}$	N 12	PRIMT
	P 13	±0V
	R 14	+5VR
I_0B_3	S 15	

COMP. SIDE — WIRING SIDE

6346-RO

SRPNMLKJHFEDCBA

SRPNMLKJHFEDCBA

SRPNMLKJHFEDCBA

REVISION	BY	DATE
NO.		

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	6-21-73	APP.	
727	CHECKED		APP.	7/24/73

TITLE SCHEMATIC, LOGIBLOC 6346 TIMING & POWER SUPPLY REGULATOR

SHT OF | DWG. NO. D 6346-1 | REV.

DO NOT SCALE

SOLDER POINTS

CABLE TO FRONT PANEL

CABLE WIRING CHART

SIGNAL	WIRE COLOR	FRONT PANEL	
KSW	GRY/ORN	SWITCH KEY	M.O.
RD	VIOLET	SWITCH DISK SELECT	N.C.
FD	BLUE	SWITCH DISK SELECT	N.O.
FMT	GRAY	SWITCH FORMAT	N.O
FMT	GRY/YEL	SWITCH FORMAT	N.C.
FOMT	ORANGE	FORMAT LIGHT	
ERROR	GREEN	ERROR LIGHT	
KC35	WHITE	SWITCH 8 BIT COMMON GROUP 2	
KC3	RED/WHT	SWITCH 8 BIT GROUP 2	N.C.
KC3	YEL/BLK/WHT	SWITCH 8 BIT GROUP 2	N.O
KC25	GRY/WHT	SWITCH 4 BIT COMMON GROUP 2	
KC2	GRN/WHT	SWITCH 4 BIT GROUP 2	N.C.
KC2	YEL/WHT	SWITCH 4 BIT GROUP 2	N.O.
KC15	BLU/WHT	SWITCH 2 BIT COMMON GROUP 2	
KC1	VIO/WHT	SWITCH 2 BIT GROUP 2	N.C.
KC1	VIO/BLK/WHT	SWITCH 2 BIT GROUP 2	N.O
KC03	ORN/WHT	SWITCH 1 BIT COMMON GROUP 2	
KC0	BRN/WHT	SWITCH 1 BIT GROUP 2	N.C
KC0	BLU/BLK/WHT	SWITCH 1 BIT GROUP 2	N.O.

NOTE:
1. ALL WIRES ARE #26 GAUGE

COMP	SIZE/TYPE	W.L. PART NO.	QTY
R1,2	10K 1/4W	330-4010	2
C1, 2	6800 20V	300-3019	2
CONN.	30 PIN CONN.	350-0011	21

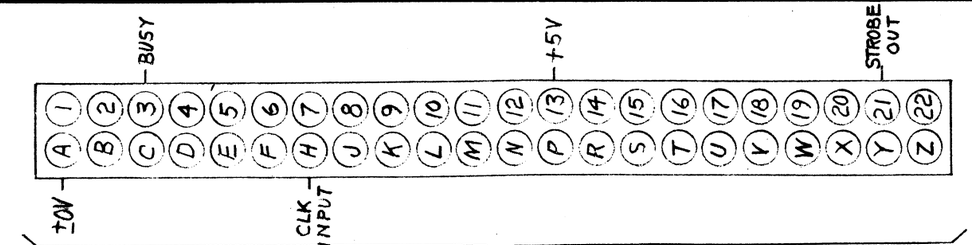
WANG LABORATORIES INC.
TEWKSBURY, MASS.

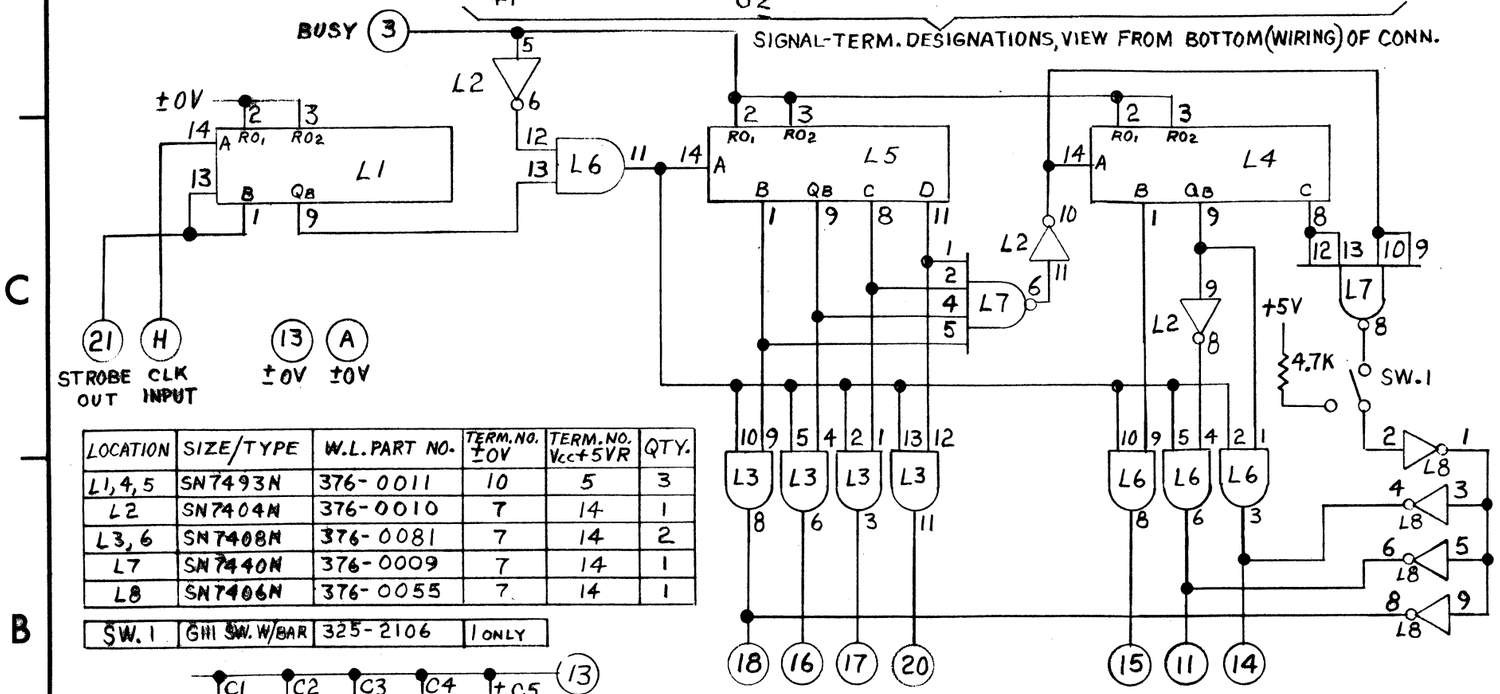
MODEL NO.	DRAWN	DATE	APP.
730	CHECKED		APP.

TITLE: SCHEMATIC 6349
MOTHER BOARD AND POWER SUPPLY

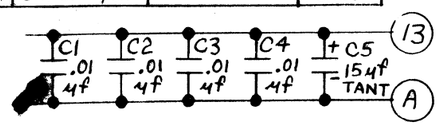
SIZE D | DWG. NO. 6349-1 | REV

DO NOT SCALE



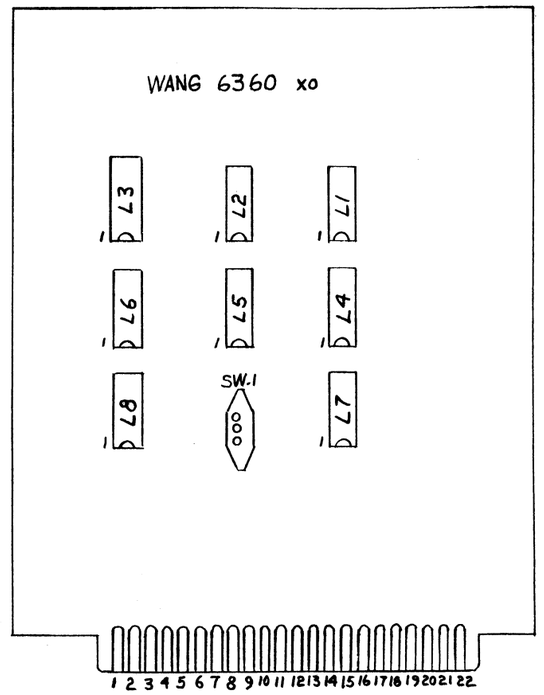


LOCATION	SIZE/TYPE	W.L. PART NO.	TERM. NO. ±0V	TERM. NO. Vcc+5VR	QTY.
L1,4,5	SN7493N	376-0011	10	5	3
L2	SN7404N	376-0010	7	14	1
L3,6	SN7408N	376-0081	7	14	2
L7	SN7440N	376-0009	7	14	1
L8	SN7406N	376-0055	7	14	1
SW.1	GHI SW. W/BAR	325-2106	1 ONLY		



HOLE LEGEND	HOLE DIA.	TOL.
DRILLED OR PUNCHED HOLE TOLERANCES:	.0135 to .125	+.003 −.001
	.126 to .250	+.004 −.001
	.251 to .500	+.005 −.001

IDENT.	DESCRIPTION	QTY.
A		



REVISION NO.	REVISION	BY	DATE
1	CHANGED PER PFA APP'D: H Rodriguez	GK	11-1-73

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.

MATERIAL	MODEL NO. 721
	SEE ENGRG SPECIFICATIONS No.
FINISH	TOL. EX. AS NOTED .XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1°30' FINISH 128 √
	SCALE SHT OF

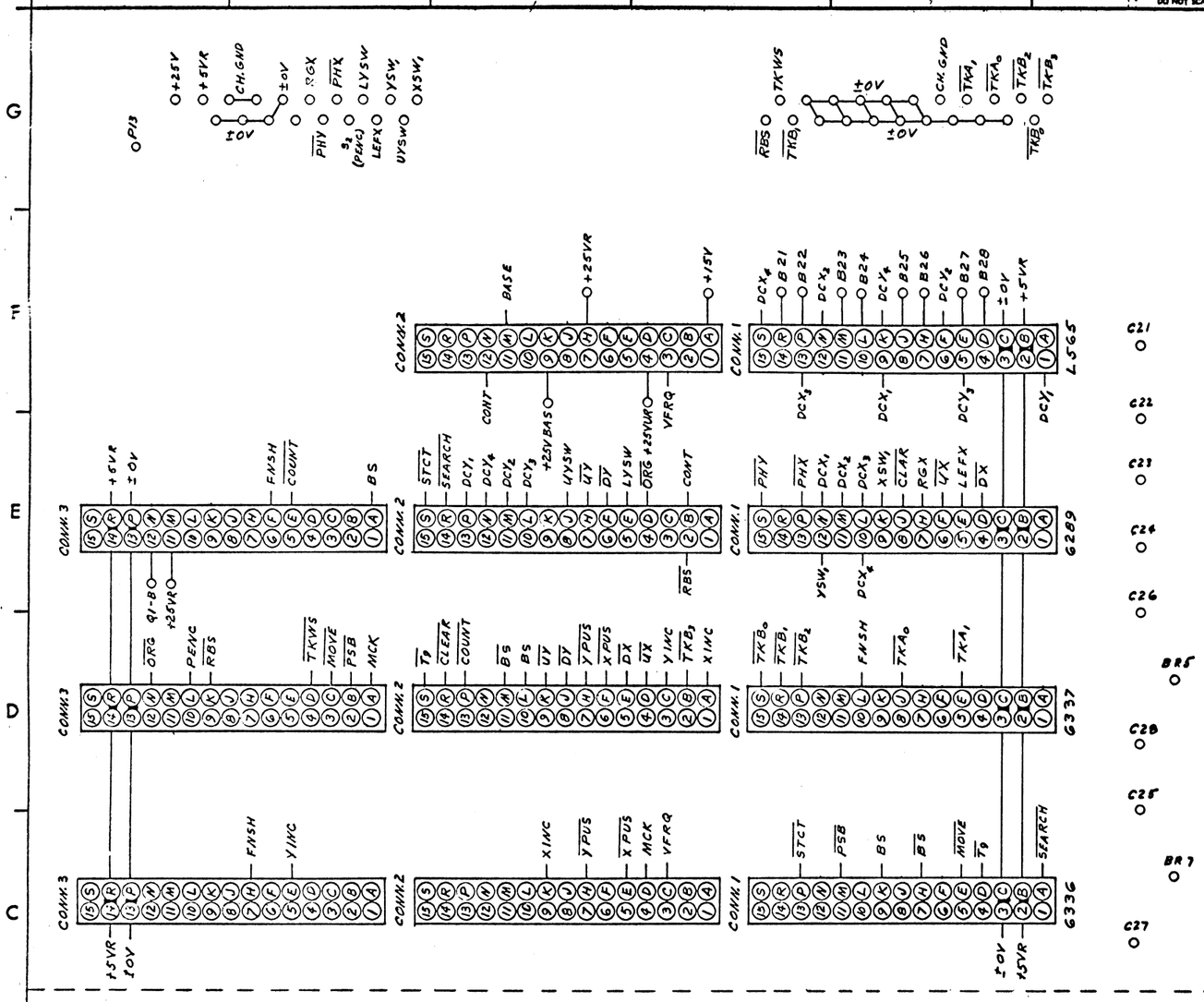
BY	DATE	APPROVED BY	DATE
DWN GK	10-25-73	E ENGR H Rodriguez	
CHK		M ENGR	
E. C. CONTROL		MFG ENGR	

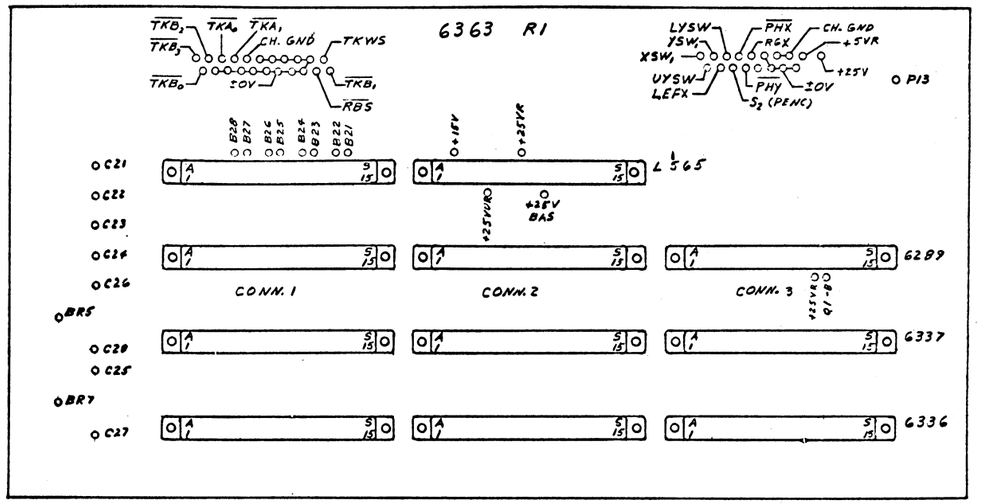
TITLE SCHEMATIC LOGIBLOC # 6360
ASCII CODE GENERATOR

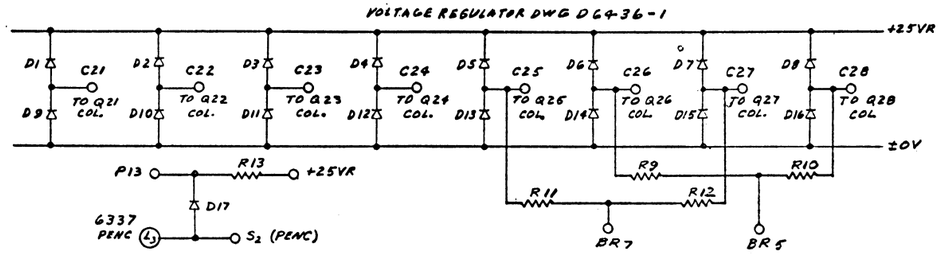
WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.
	B	6360-1	

B 6360-1

DO NOT SCALE







COMPONENT	SIZE/TYPE	W.L. PART No.	QTY
R9, 10, 11, 12	56Ω 1W	332-1056	4
R13	39Ω ½W	331-1039	1
D1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17	EM403	380-4000	17
CONNECTOR	30 PIN CONN	350-0011	11

REVISION	BY	DATE

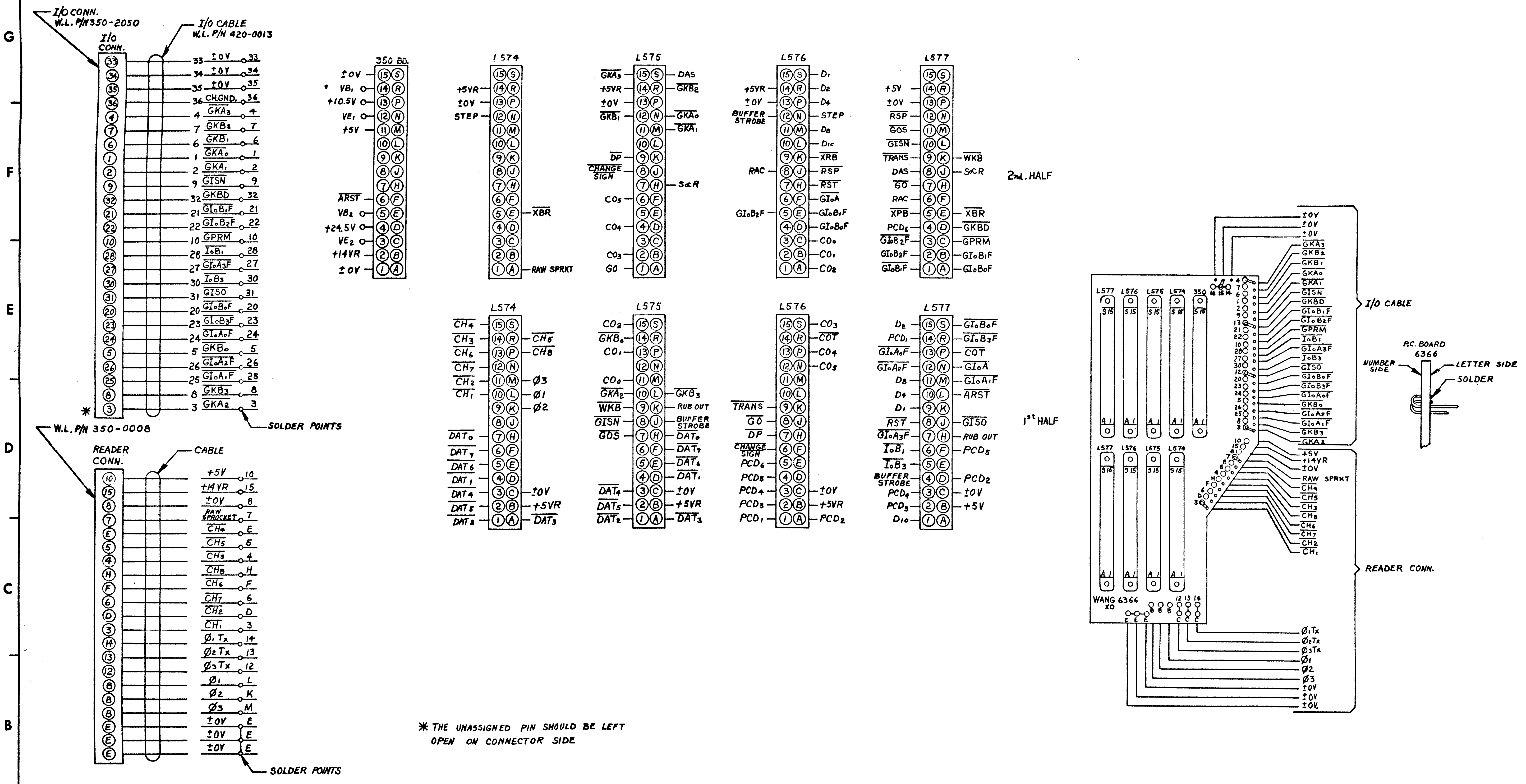
WANG LABORATORIES INC.
TEWKESBURY, MASS.

MODEL NO.	DRAWN		APP.	
732	CHECKED		APP.	

TITLE: MOTHER BOARD AND SCHEMATIC 6363

SHT OF | DWG. NO. 6363-1 | REV D

D 6363-1



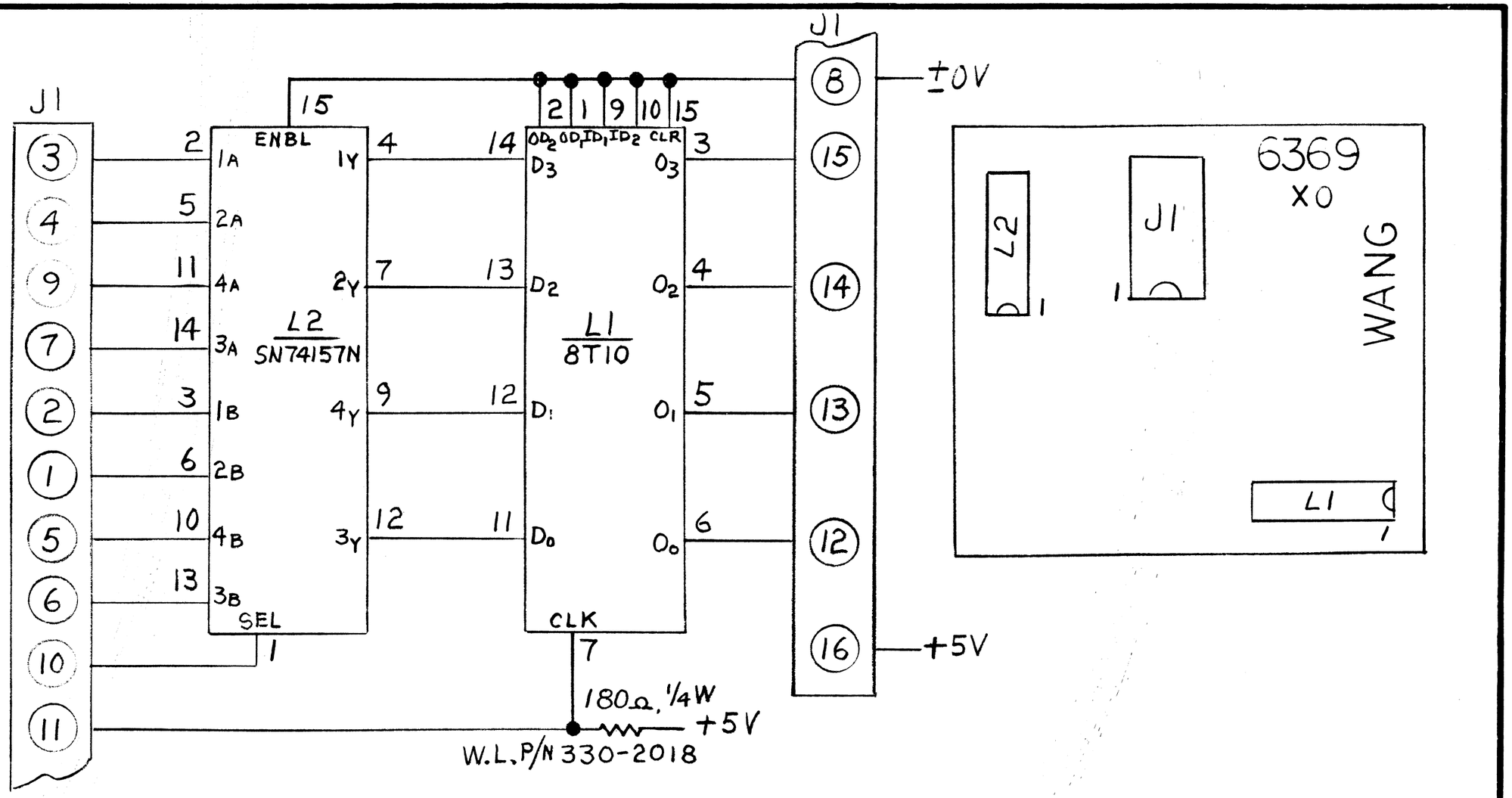
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
733	G.K	10-10-73		
	CHECKED	J	APP. SKH	11/5/73

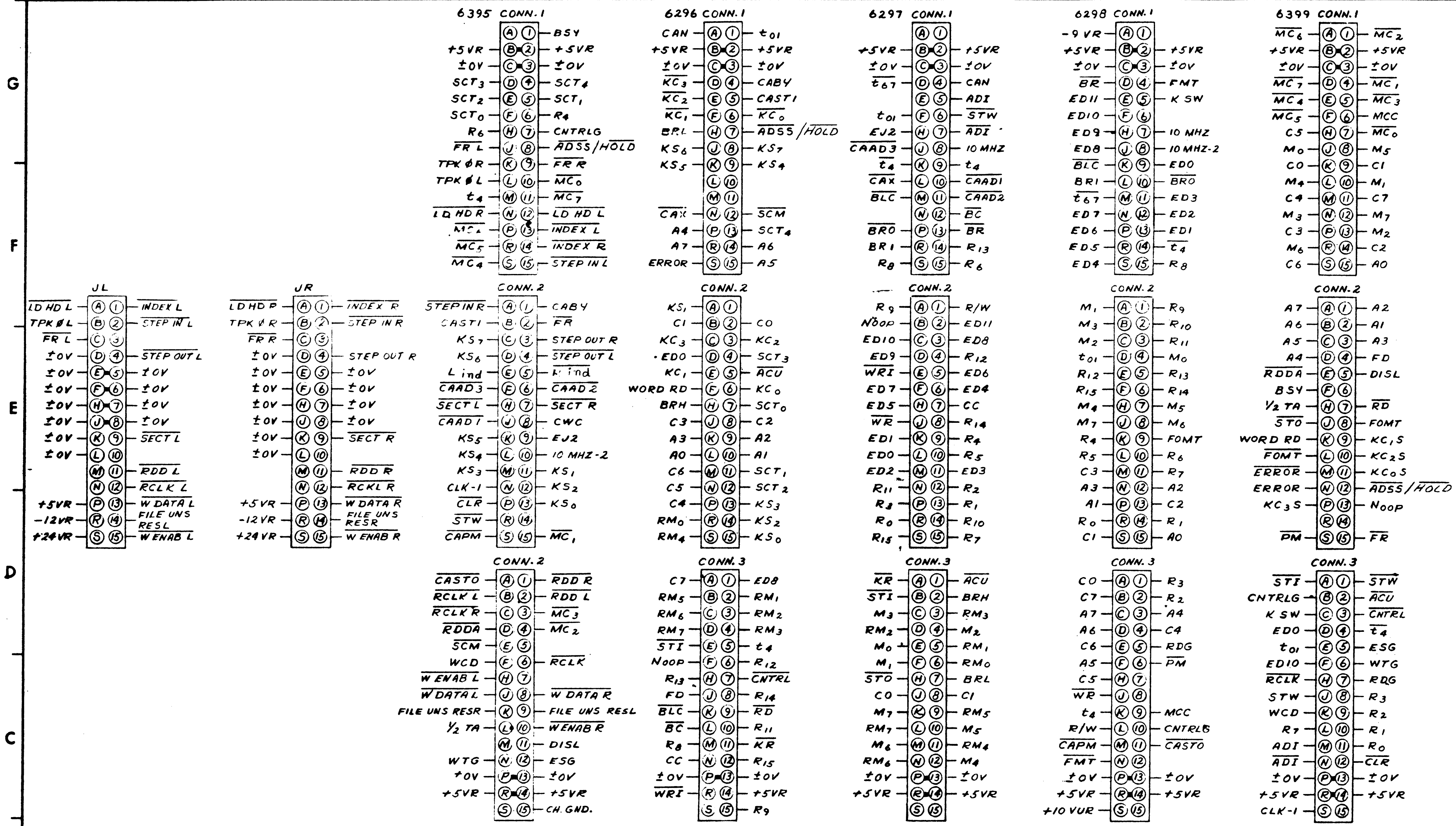
TITLE: SCHEMATIC # 6366 MOTHER BOARD

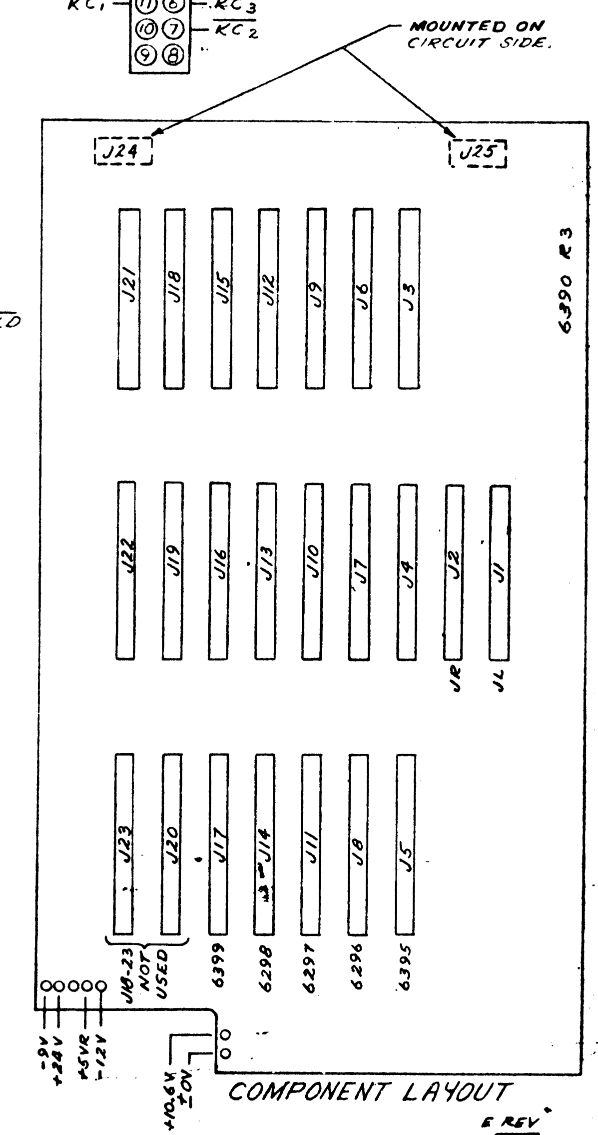
DWG. NO. D 6366-1

DO NOT SCALE



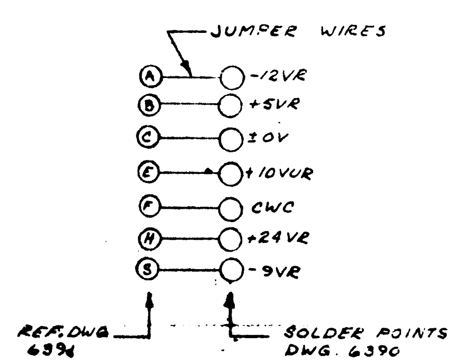
WANG LABORATORIES, INC. TEWKSBURY, MASS. U. S. A.				
MODEL NO. 730	DRAWN GK	9-20-73	APPD	
	CHECKED	9-20-73	APPD RDC	
TITLE	SCHEMATIC LOGIBLOC # 6369 ADAPTER CIRCUIT FOR I.C. 74298 730 DISK			
W.O. NO.	SCALE	DWG. NO. A 6369-1		REV





NOTE: 1. ADSS MODELS 640/740
HOLD MODELS 2240/2242

COMPONENT	SIZE, TYPE	W.L. NO.
J1 THRU J17	225-21521-110PC	350-0011
CABLE J24,25	16 PIN SIDE ENT.	420-2000



MAY 19 1977

REVISION: REVISED PER ECN# 4064 APP'D; REVISED PER ECN# 4528 APP'D; REVISED PER REN 1388, ECN 4086 APP'D

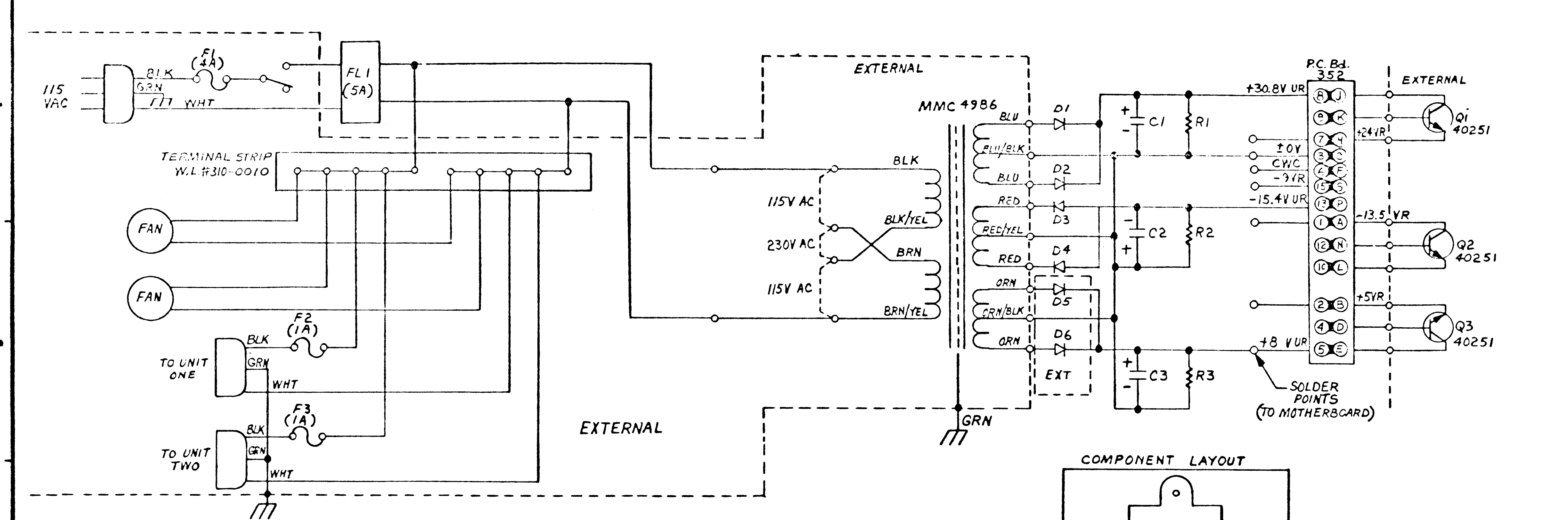
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 640/740/2240/2242 — DRAWN F.S.S. 11-29-73

MOTHER BOARD

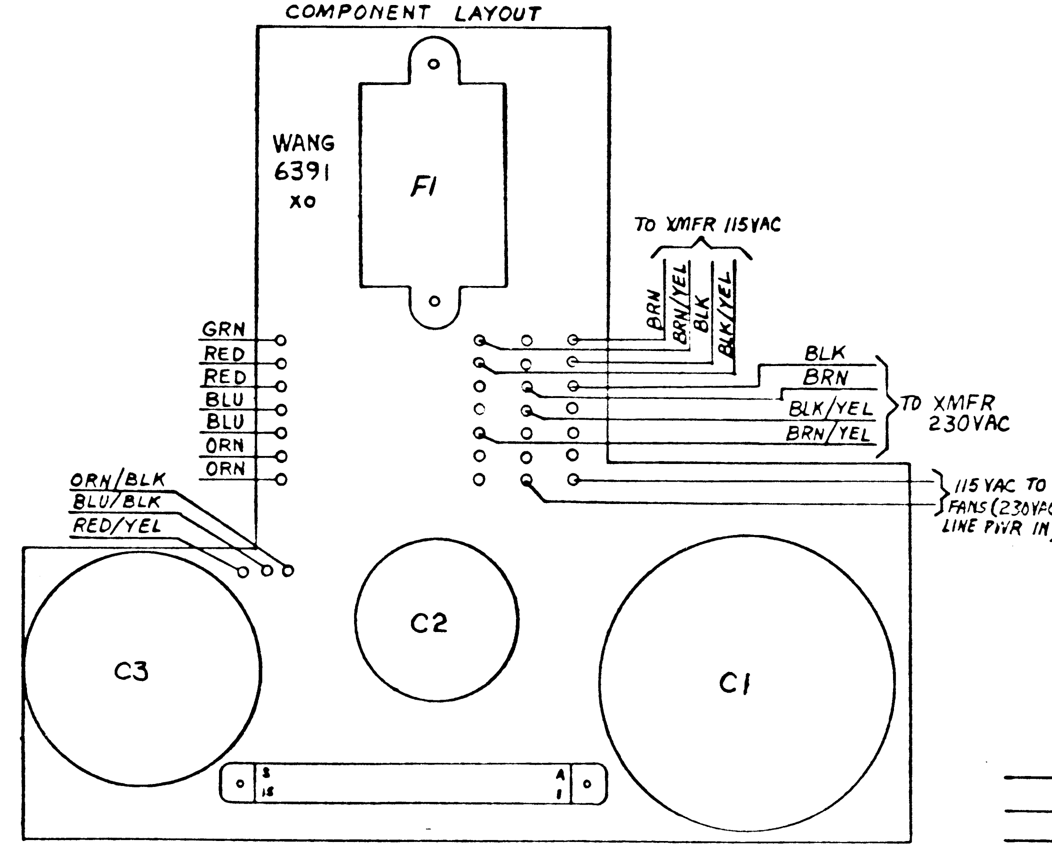
SHT 4 OF 6 — DWG. NO. D 6390 — REV. 3

DO NOT SCALE



COMPONENT	TYPE	W.L.PART NO.	QTY.
D1 THRU D4	1N4719	380-3002	4
R1, 2, 3	10K 1/4W	330-4010	3
C1	25K 40VDC	300-3046	1
C2	6K 20VDC	300-3019	1
C3	40K 12VDC	300-3044	1
F1	5AMP FILTER	410-2002	1
D5, 6	1N1200	380-3000	2

COMPONENT LAYOUT



NO.	REVISION	DATE	BY
1	REVISED: PER P.F.A. #0715 APPD.	4-3-74	F.S.S.

IDENT	QTY	NAME	MATERIAL	DESCRIPTION

TOL. EX. AS NOTED .XX ±.010 .XXX ±.005 FRAC. ±1/64 ANG. ±0 30
FINISH ✓
MATERIAL
FINISH

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

DR CK — DATE 11-8-73
CHK — DATE
APPD — DATE 12-20-73

MODEL No. 740 | W.O. No. | SCALE | SHEET OF

TITLE SCHEMATIC LOGIBLOC #6391 POWER SUPPLY

PART NUMBER	REV	SIZE	DRAWING NUMBER
	1	C	6391-1

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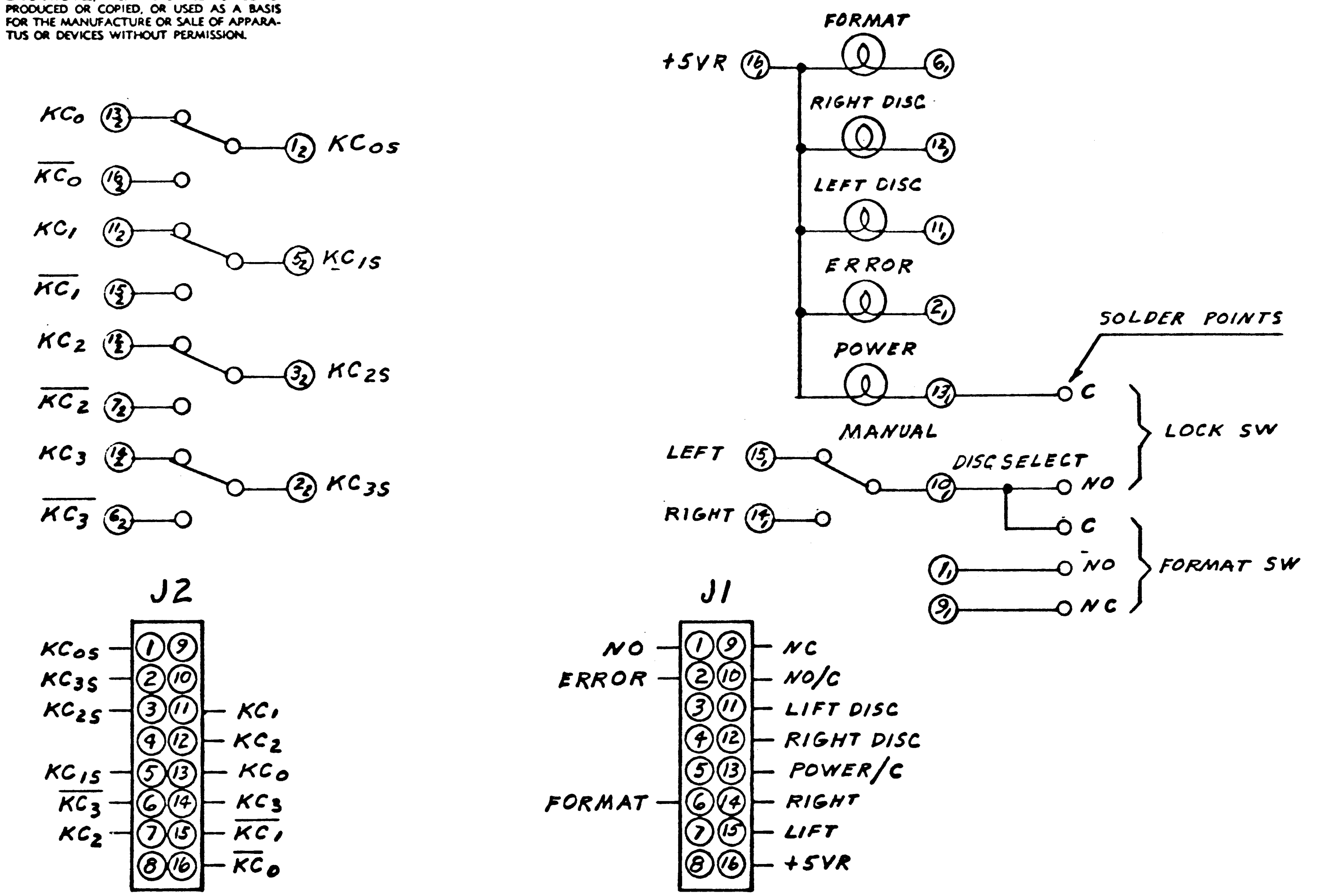
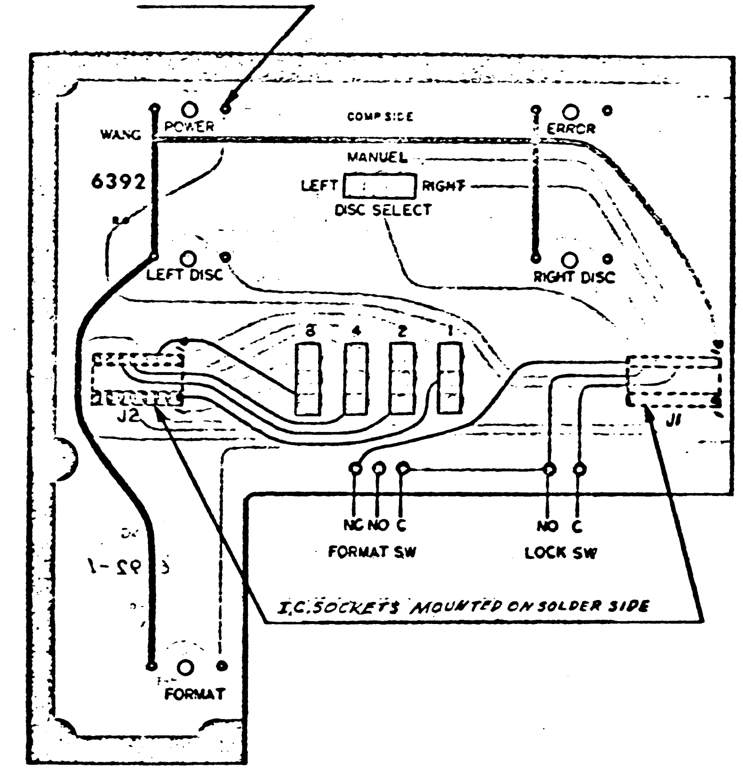
DO NOT SCALE

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		



SEE NOTE 1



I.C. SOCKETS MOUNTED ON SOLDER SIDE

COMPONENT	TYPE	W. L. PART NO.	QTY
LAMPS	CMB-820	370-0015	5
SWITCHES		325-0014	5
I.C. SOCKETS	16 PIN	376-9005	2
I.C. PAD		376-9008	2
SLEEVE (5/8 L)	TEFLON TUBING	605-0120	.58

NOTE:

1. SLEEVE ALL LAMP LEADS (10 PIECES)

REVISION NO.	REVISION	DATE	BY
1	REVISED: PER ECN #4076 APP'D AJM	3/7/7?	RC
2	REVISED PER ECN #4049A APP'D AJM	5/1/74	JS

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	JS	5/1/74	E ENGR	5/1/7?
CHK			M ENGR	
E C CONTROL			MFG ENGR	

MATERIAL

MODEL NO. 643/740/2240

SEE ENGRG SPECIFICATIONS No.

FINISH –

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

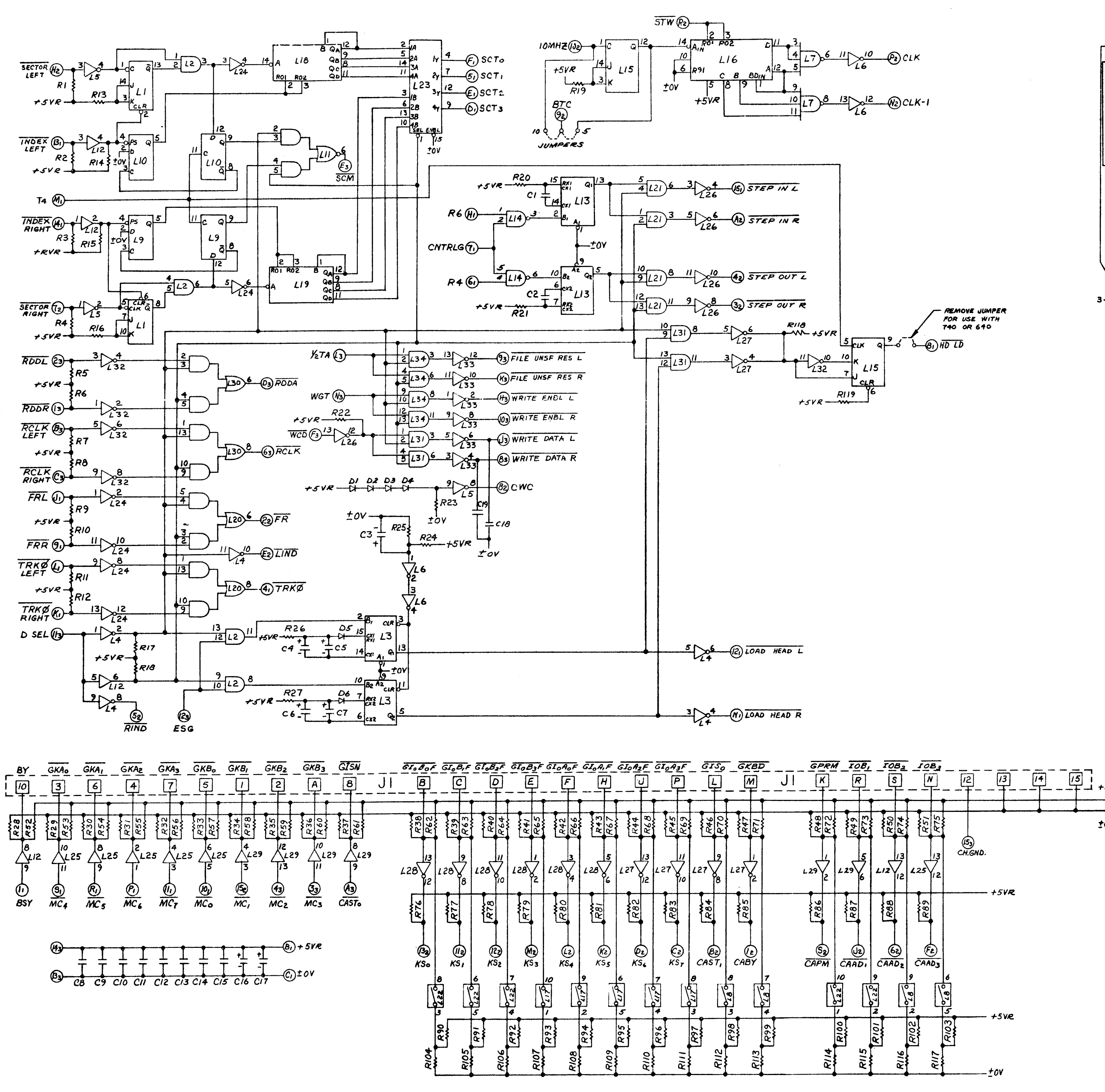
SCALE | SHT | OF

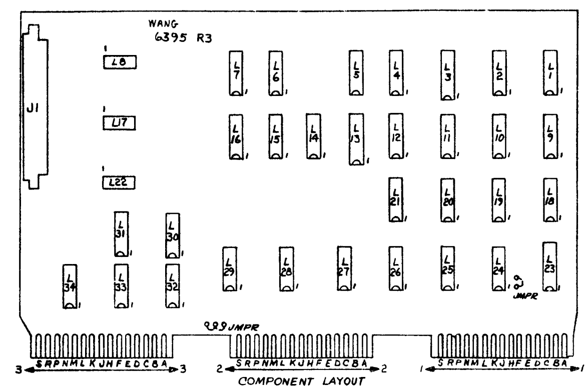
TITLE SCHEMATIC, LOGIBLOC 6392 FRONT PANEL CONTROLS

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
	C	6392-1	2

C 6392-1

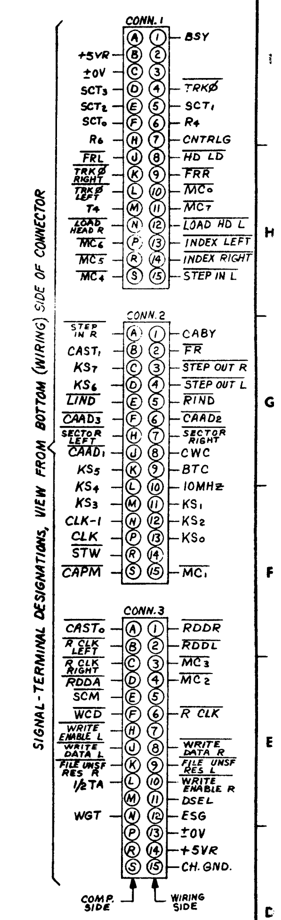
HOLE LEGEND			
	HOLE	DIA.	TOL.
DRILLED OR PUNCHED HOLE TOLERANCES:	.0125 to .125		
	.126 to .250		
	.251 to .500		
IDENT.	DESCRIPTION		QTY
A			





LOCATION	TYPE	W.L. PART NO.	TERM. NO. ±0V	TERM. NO. Vcc +5VR
L1,15	7473	376-0005	11	4
L2,21,31,34	7408	-0031	7	14
L3,13	74123	-0080	8	16
L4,26-28,33	7406	-0055	7	14
L5	7414	-0139	7	14
L6,24,32	7404	-0010	7	14
L7	7410	-0003	7	14
L14	7400	-0002	7	14
L9,10	7474	-0006	7	14
L11,20,30	7451	-0012	7	14
L12,25,29	7407	-0056	7	14
L16	7490	-0073	10	5
L18,19	7493	-0011	10	5
L23	74157	376-0082	8	16
L8,17,22	5BANK ROCKER SW.	325-1501		
L8,17,22	5BANK ROCKER CAP	325-9045		

COMPONENT	SIZE/TYPE	W.L. PART NO.
R1-12	680Ω 1/4W	330-2068
R13,16,19	22K	-4022
R14,15,17,18	1K	-3010
R20,21,119	10K	-4010
R23,28-37,104-117	330Ω	-2033
R24	12K	-4012
R25	15K	-4015
R26,27	47K	-4047
R22,52-61,76-103	220Ω	-2022
R38-51	3.3K	-3033
R62-75,118	2.2K 1/4W	330-3022
C1,2	.1μf 10V	300-1901
C3	33μf 35V T.	-4019
C4-7	200μf 15V T.	-4033
C8-15	.05μf 12V CER	-1900
C16,17	15μf 20V T.	-4022
C18,19	1000pf	300-1906
D1-6	DIODE 3B	380-1001
J1	225-21521 CONN.	350-0011



MAY 19 1977

E REV 2

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION

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

	BY	DATE	APPROVED BY	DATE
DWN		2-21-75	E ENGR G.M.	12-20-73
CHK		3-21-75	M ENGR	
E. C CONTROL			MFG ENGR	

MATERIAL

MODEL NO 640/740 2240/2242

SEE ENGRG SPECIFICATIONS No

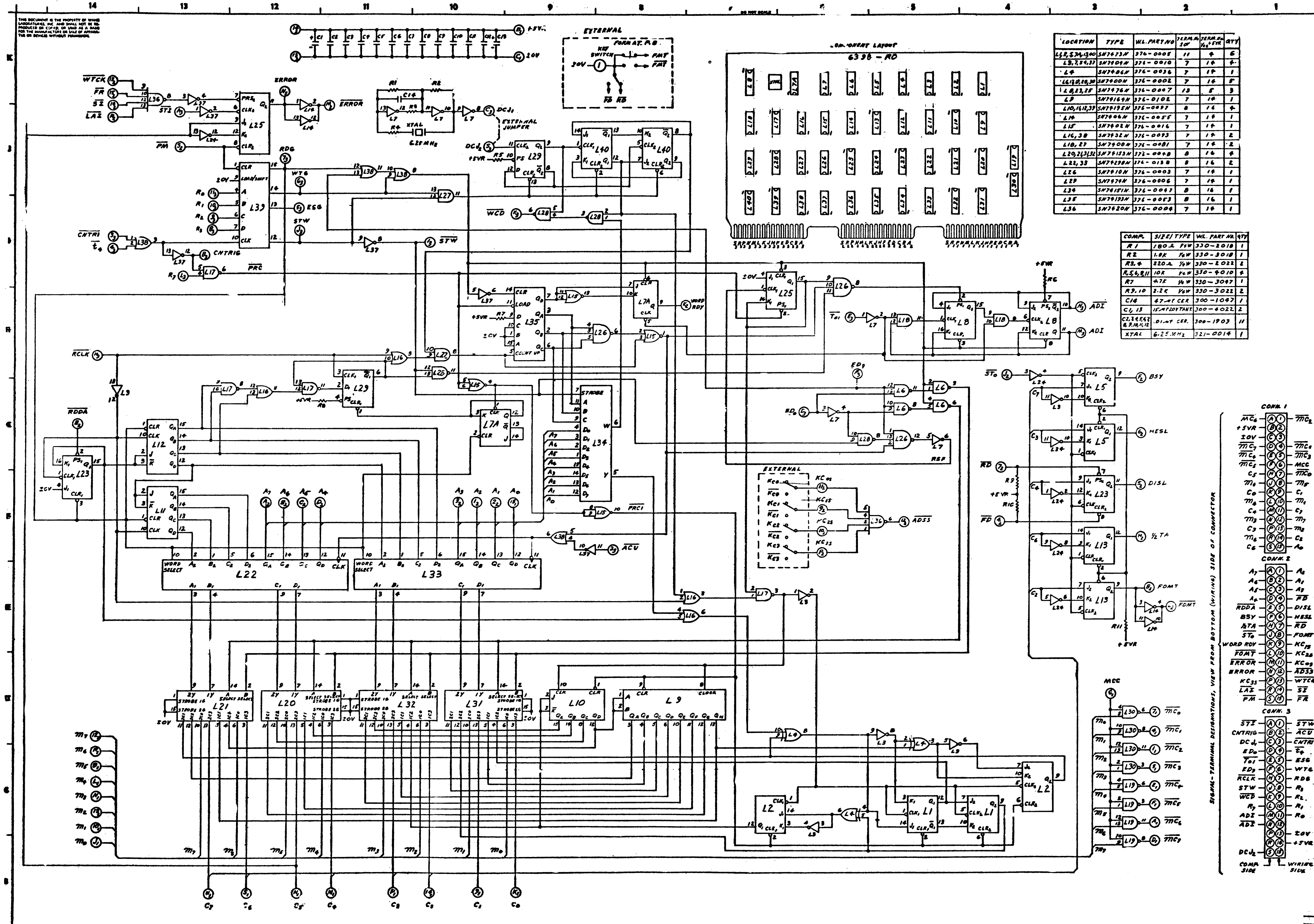
FINISH

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

SCALE — SHT 4 OF 6

TITLE SCHEMATIC LOGIBLOC 6395 TERMINATOR BOARD

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.
210-6395	E	6395	3



LOCATION	TYPE	W.L. PART NO	TERM. No 20V	TERM. No Vcc +5VR	QTY
L1,2,5,7A,13,40	SN7473N	376-0005	11	4	6
L3,7,24,37	SN7409N	376-0010	7	14	4
L4	SN7486N	376-0036	7	14	1
L6,17,19,28,30	SN7400N	376-0002	7	14	5
L8,23,25	SN7476N	376-0007	13	5	3
L9	SN74164N	376-0102	7	14	1
L10,11,12,39	SN74195N	376-0097	8	16	4
L14	SN7406N	376-0055	7	14	1
L15	SN7402N	376-0016	7	14	1
L16,38	SN7432N	376-0093	7	14	2
L18,27	SN7408N	376-0081	7	14	2
L20,21,31,32	SN74153N	376-0048	8	16	4
L22,33	SN74298N	376-0138	8	16	2
L26	SN7410N	376-0003	7	14	1
L29	SN7474N	376-0006	7	14	1
L34	SN74151N	376-0047	8	16	1
L35	SN74193N	376-0053	8	16	1
L36	SN7420N	376-0004	7	14	1

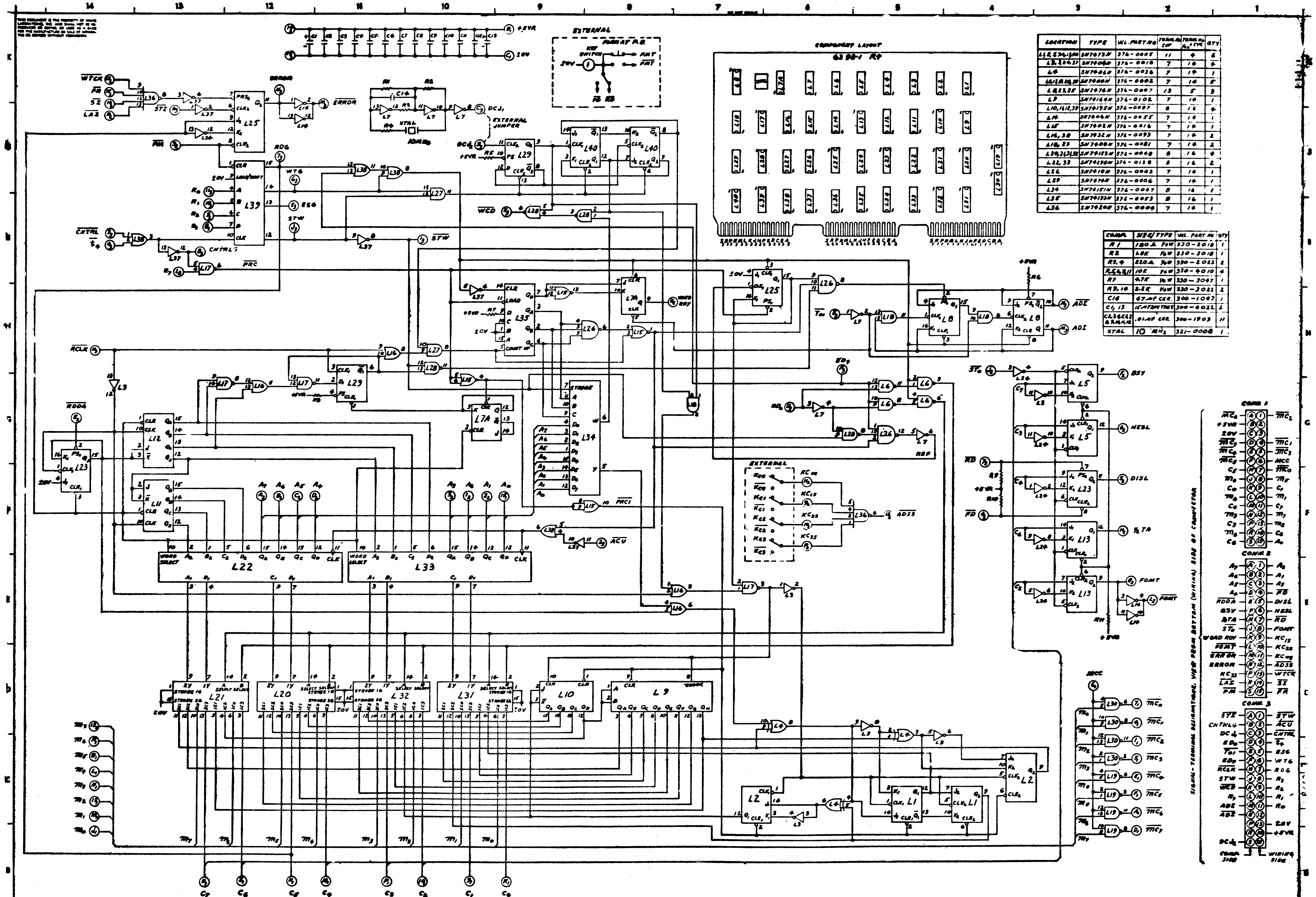
COMP.	SIZE/TYPE	W.L. PART NO.	QTY
R1	180Ω 1/4W	330-2018	1
R2	1.8K 1/4W	330-3018	1
R3,4	220Ω 1/4W	330-2022	2
R5,6,8,11	10K 1/4W	330-4010	4
R7	4.7K 1/4W	330-3047	1
R9,10	2.2K 1/4W	330-3022	2
C14	47µf CER	300-1047	1
C1,13	15µf 20V TANT.	300-4022	2
C2,3,4,5,6,7,8,9,10,11,12	.01µf CER.	300-1903	11
XTAL	6.25 MHz	321-0014	1

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

MODEL NO 730/2230

TITLE SCHEMATIC LOGIBLOC 6398 DISK CONTROL

510-6398 E 6398-1



LOCATION	TYPE	W.L. PART NO.	TERM. No. 20V	TERM. No. Vcc +5VR	QTY
L1,2,5,7A,13,40	SN7473N	376-0005	11	4	6
L3,7,24,37	SN7404N	376-0010	7	14	4
L4	SN7486N	376-0036	7	14	1
L6,17,18,28,30	SN7400N	376-0002	7	14	5
L8,23,25	SN7476N	376-0007	13	5	3
L9	SN74164N	376-0102	7	14	1
L10,11,12,39	SN74195N	376-0097	8	16	4
L14	SN7406N	376-0055	7	14	1
L15	SN7402N	376-0016	7	14	1
L16,38	SN7432N	376-0093	7	14	2
L19,27	SN7408N	376-0081	7	14	2
L20,21,31,32	SN74153N	376-0048	8	16	4
L22,33	SN74298N	376-0138	8	16	2
L26	SN7410N	376-0003	7	14	1
L29	SN7474N	376-0006	7	14	1
L34	SN74151N	376-0047	8	16	1
L35	SN74193N	376-0053	8	16	1
L36	SN7420N	376-0004	7	14	1

COMP.	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
R5,6,8,11	10K 1/4W	330-4010	4
R7	4.7K 1/4W	330-3047	1
R9,10	2.2K 1/4W	330-3022	2
C14	47pF CER.	300-1047	1
C1,13	15µF 20V TANT.	300-4022	2
C2,3,4,5,6,7,8,9,10,11,12	.01µF CER.	300-1903	11
XTAL	10 MHz	321-0008	1

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

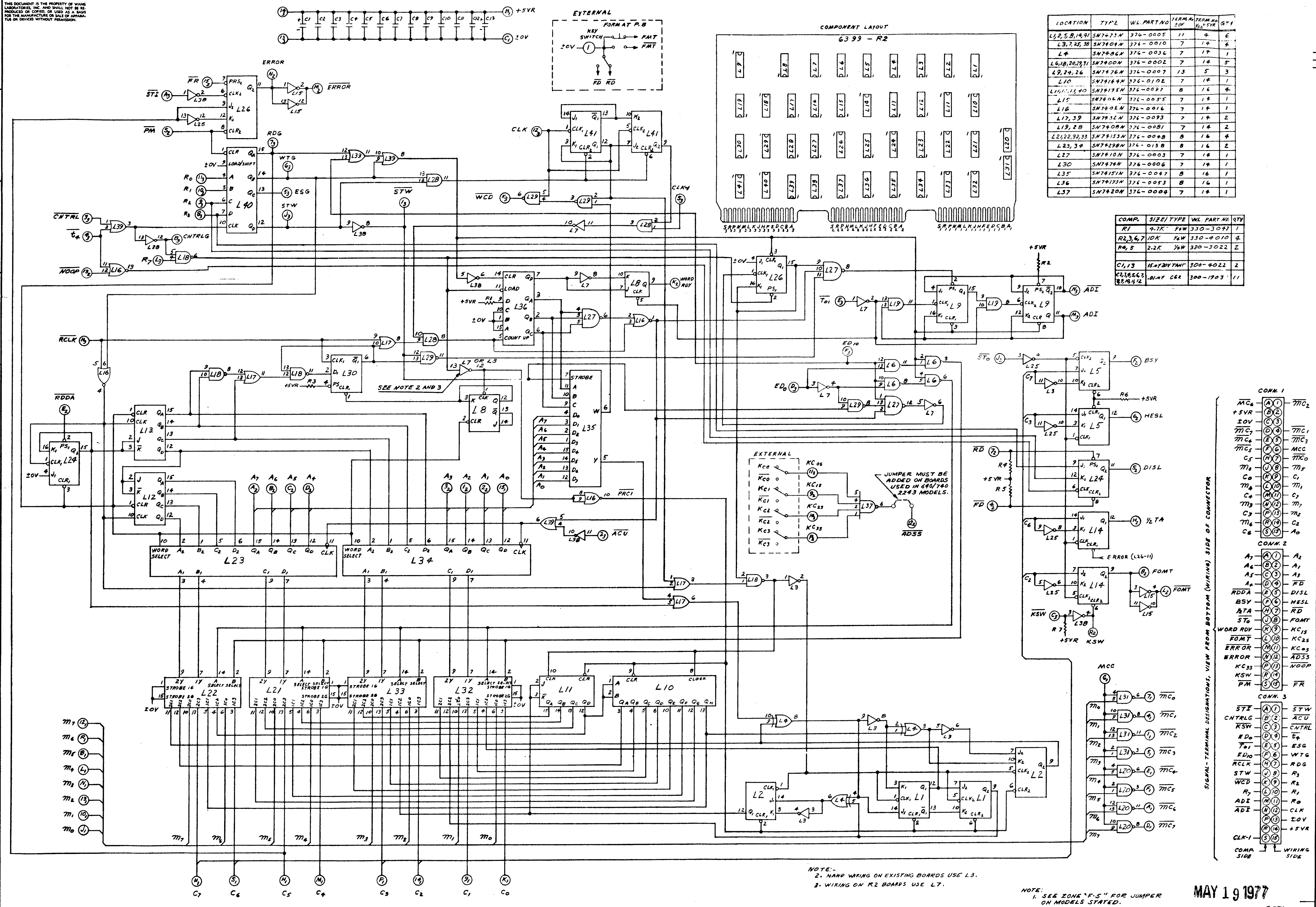
MODEL NO. 2260

TITLE SCHEMATIC LOGIBLOC 6398-1 DISK CONTROL

DWN: F.S. CHK: G.D.

WANG PART NUMBER 210-6398-1 SIZE E DRAWING NUMBER 6398-1 REV. 3

SHT 7 OF 7



LOCATION	TYPE	W.L. PART NO	TERM. No ±OV	TERM. No Vcc +5VR	QTY
L1,2,5,8,14,41	SN7473N	376-0005	11	4	6
L3,7,25,38	SN7404N	376-0010	7	14	4
L4	SN7486N	376-0036	7	14	1
L6,18,20,29,31	SN7400N	376-0002	7	14	5
L9,24,26	SN7476N	376-0007	13	5	3
L10	SN74164N	376-0102	7	14	1
L11,12,13,40	SN74195N	376-0097	8	16	4
L15	SN7406N	376-0055	7	14	1
L16	SN7402N	376-0016	7	14	1
L17,39	SN7432N	376-0093	7	14	2
L19,28	SN7408N	376-0081	7	14	2
L21,22,32,33	SN74153N	376-0048	8	16	4
L23,34	SN74298N	376-0138	8	16	2
L27	SN7410N	376-0003	7	14	1
L30	SN7474N	376-0006	7	14	1
L35	SN74151N	376-0047	8	16	1
L36	SN74193N	376-0053	8	16	1
L37	SN7420N	376-0004	7	14	1

COMP.	SIZE/TYPE	W.L. PART NO.	QTY
R1	4.7K 1/4W	330-3047	1
R2,3,6,7	10K 1/4W	330-4010	4
R4,5	2.2K 1/4W	330-3022	2
C1,13	15μf 20V TANT	300-4022	2
C2,3,4,5,6,7,8,9,10,11,12	.01μf CER	300-1903	11

NOTE:-
2. NAND WIRING ON EXISTING BOARDS USE L3.
3. WIRING ON R2 BOARDS USE L7.

NOTE:
1. SEE ZONE "F-5" FOR JUMPER ON MODELS STATED.

MAY 19 1977

E.REV. 2

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION

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

BY	DATE	APPROVED BY	DATE
DWN	11-9-73	E ENGR	
CHK	12-26-74	M ENGR	
E. C. CONTROL		MFG ENGR	

MATERIAL

FINISH

MODEL NO. 640/740/2240/2242/2243

SEE ENGRG SPECIFICATIONS No.

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

SCALE SHT OF

TITLE SCHEMATIC LOGIBLOC 6399 DISK CONTROL

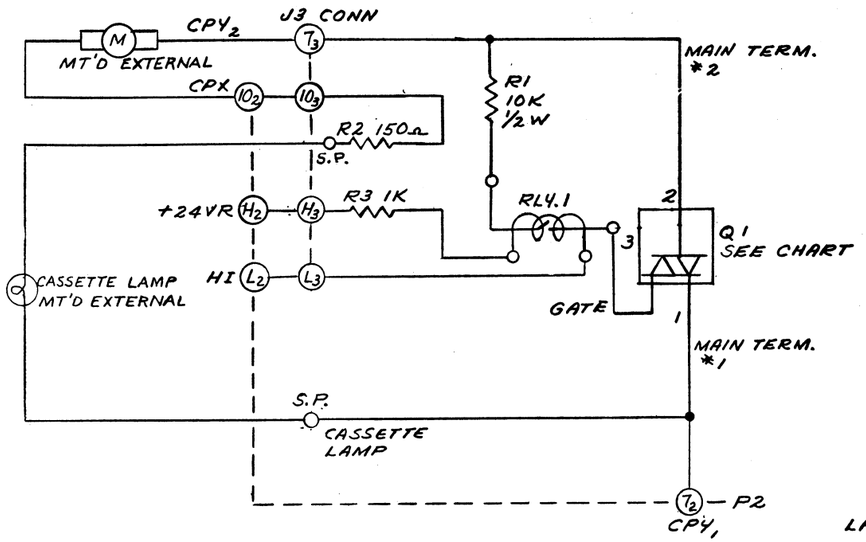
WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
710-6399	E	6399	4

REVISION

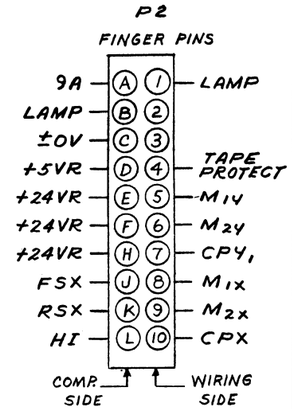
DO NOT SCALE

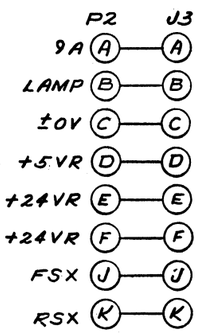
HOLE LEGEND		
DRILLED OR PUNCHED HOLE TOLERANCES:	HOLE DIA.	TOL.
	.0135 to .125	+.003 −.001
	.126 to .250	+.004 −.001
	.251 to .500	+.005 −.001

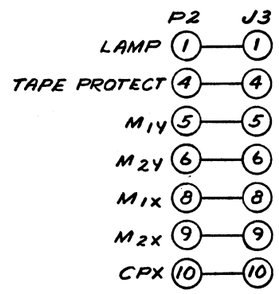
IDENT.	DESCRIPTION	QTY.
A		

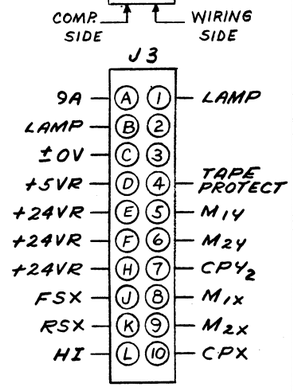


COMPONENT	W.L. NO.
R1	331-4010
R2	330-2015
R3	330-3010
J3	350-0028
Q1	375-3002
RLY.1	320-0047

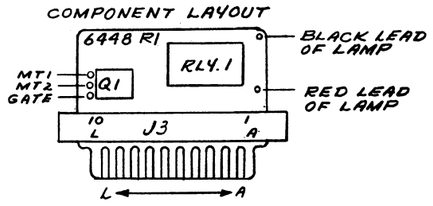








COMPONENT LAYOUT



"Q1" CHART

COMPONENT	TERMINAL MT1	TERMINAL MT2	TERMINAL GATE	PIN CALL-OUT
W.L. 375-3001 40526 (T2300B)	1	3	2	BOT. VIEW (3 2 1)
W.L. 375-3002 2N6070B	1	2	3	TOP-VIEW (1 2 3)

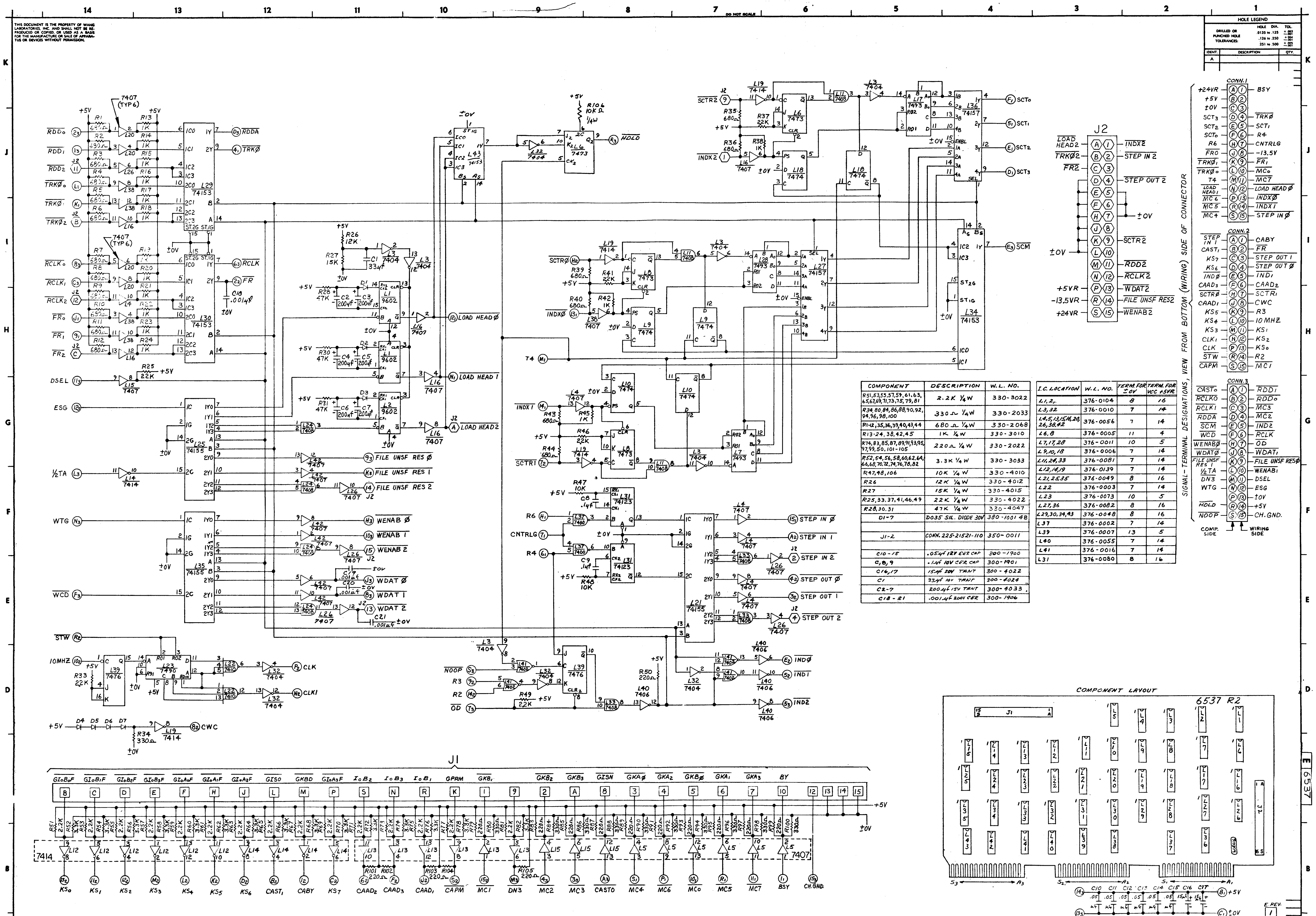
E-REV 1

NO.	REVISION	DATE	BY
1	REVISED: PER E.C.N.# 4551 & E.E.R.# 1411 APP'D. [illegible]	2-7-75	F.S.S.

WANG PART NO.	ITEM	QTY.	NAME
Qty. Per Unit / FIRST USED ON / ASSY USED ON			WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.
			MATERIAL: —
			MODEL NO. TD-24
			SEE ENGRG SPECIFICATIONS No.
			FINISH: TOL. EX. AS NOTED .XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1°30' FINISH 128
			SCALE — SHT 4 OF 5

MATERIAL	DESCRIPTION
BY	DATE / APPROVED BY / DATE
DWN DRC	9/19/74 / E ENGR S.K. Ho / 10/21/74
CHK [illegible]	10/21/74 / M ENGR /
E. C. CONTROL	/ MFG ENGR /
TITLE: SCHEMATIC, AUTO ON/OFF 6448	
210-6448 (WANG PART NUMBER)	C (SIZE) / 6448 (DRAWING NUMBER) / 1 (REV)

8449 C



COMPONENT	DESCRIPTION	W.L. NO.
R51,53,55,57,59,61,63,65,67,69,71,73,75,79,81	2.2K ¼W	330-3022
R34,80,84,86,88,90,92,94,96,98,100	330Ω ¼W	330-2033
R1-12,35,36,39,40,43,44	680Ω ¼W	330-2068
R13-24,38,42,45	1K ¼W	330-3010
R74,83,85,87,89,91,93,95,97,99,50,101-105	220Ω ¼W	330-2022
R52,54,56,58,60,62,64,66,68,70,72,74,76,78,82	3.3K ¼W	330-3033
R47,48,106	10K ¼W	330-4010
R26	12K ¼W	330-4012
R27	15K ¼W	330-4015
R25,33,37,41,46,49	22K ¼W	330-4022
R28,30,31	47K ¼W	330-4047
D1-7	D035 SIL. DIODE 30V	380-1001 4B
J1-2	CONN. 225-21521-110	350-0011
C10-15	.05µf 12V CER CAP	300-1900
C,8,9	.1µf 10V CER CAP	300-1901
C16,17	15µf 20V TANT	300-4022
C1	33µf 10V TANT	300-4024
C2-7	200µf 15V TANT	300-4033
C18-21	.001µf 200V CER	300-1906

I.C. LOCATION	W.L. NO.	TERM. FOR ±0V	TERM. FOR VCC +5VR
L1,2	376-0104	8	16
L3,32	376-0010	7	14
L4,5,13,15,16,20,26,38,42	376-0056	7	14
L6,8	376-0005	11	4
L7,17,28	376-0011	10	5
L9,10,18	376-0006	7	14
L11,24,33	376-0081	7	14
L12,14,19	376-0139	7	14
L21,25,35	376-0049	8	16
L22	376-0003	7	14
L23	376-0073	10	5
L27,36	376-0082	8	16
L29,30,34,43	376-0048	8	16
L37	376-0002	7	14
L39	376-0007	13	5
L40	376-0055	7	14
L41	376-0016	7	14
L31	376-0080	8	16

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

MODEL NO. 2243

TITLE: SCHEMATIC LOGIBLOC 6537 I/O CONTROL BOARD

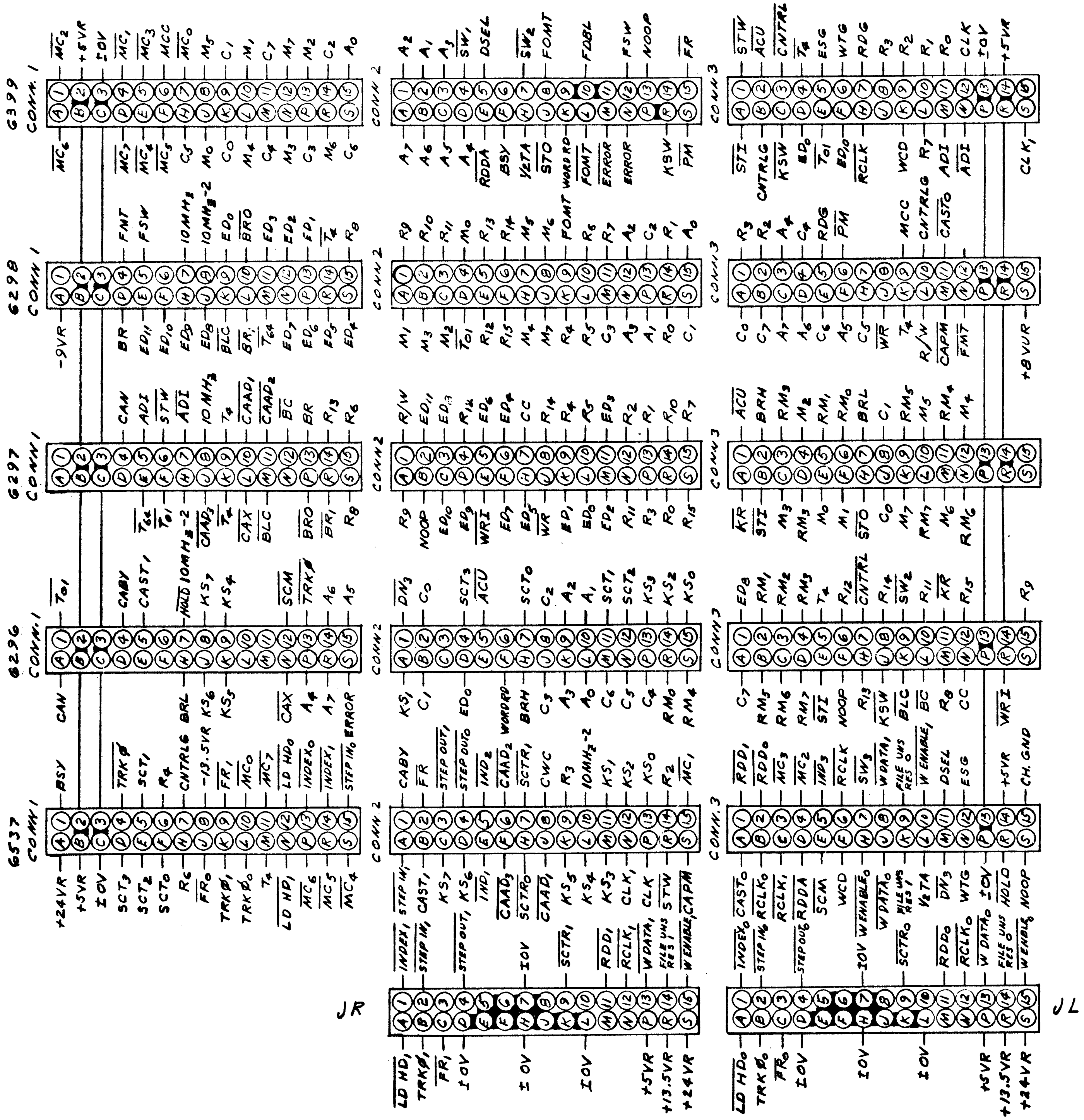
DWN: EK 4-1-74 | E ENGR: 5-1-74

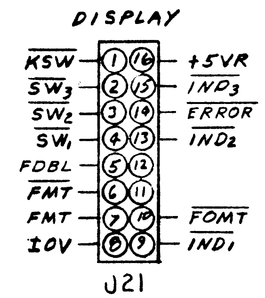
TOL. EX. AS NOTED .XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1°30' FINISH 128

SHT 4 OF 7

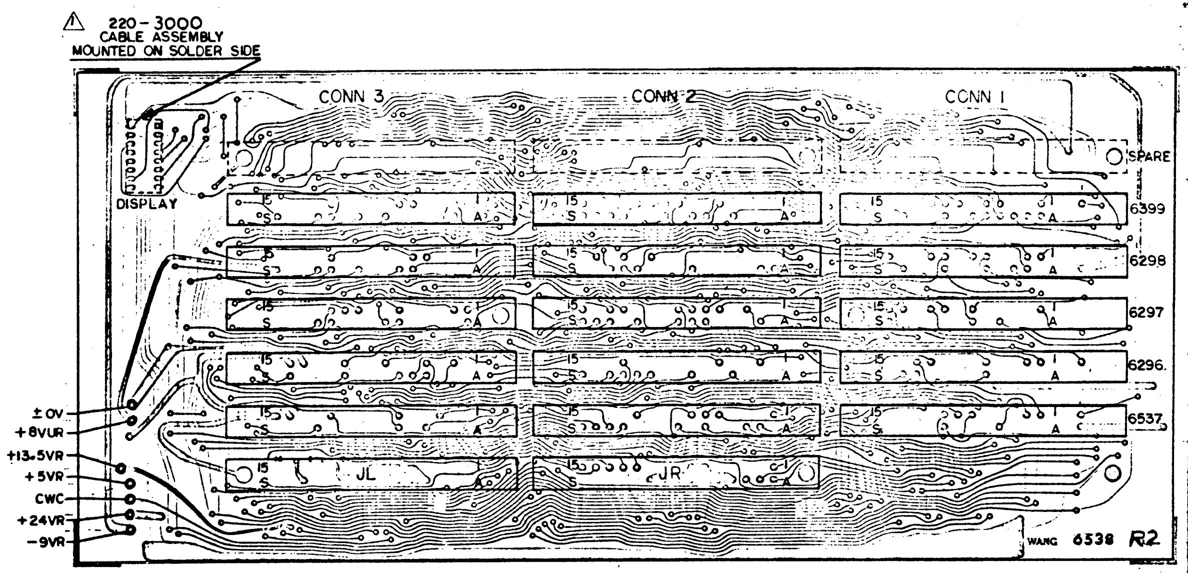
WANG PART NUMBER: 210-6537 | SIZE: E | DRAWING NUMBER: 6537 | REV.: 3

E. REV. 1





⚠ 220-3000 CABLE ASSEMBLY MOUNTED ON SOLDER SIDE



SOLDER POINTS

- ΣOV
- +8VUR
- -13.5VR
- +5VR
- CWC
- +24VR
- -9VR

PARTS LIST

QTY. PER DASH NO.				KEY	WANG PART NUMBER	WANG DRAWING NUMBER	NOMENCLATURE OR DESCRIPTION	NOTE	ITEM NO.
-4									
1					510-6538		6538 PC BOARD		1
1				⚠1	220-3000		FLAT CABLE ASSY		2
17					350-0011		225-21521- 110 PC CONN		3
									4
									5
									6
									7

MAY 19 1977

E.REV 1

REVISION		
1	RV PER ECN 4378 11-1-74	12-17-74
2	REV PER ECN NO 452	

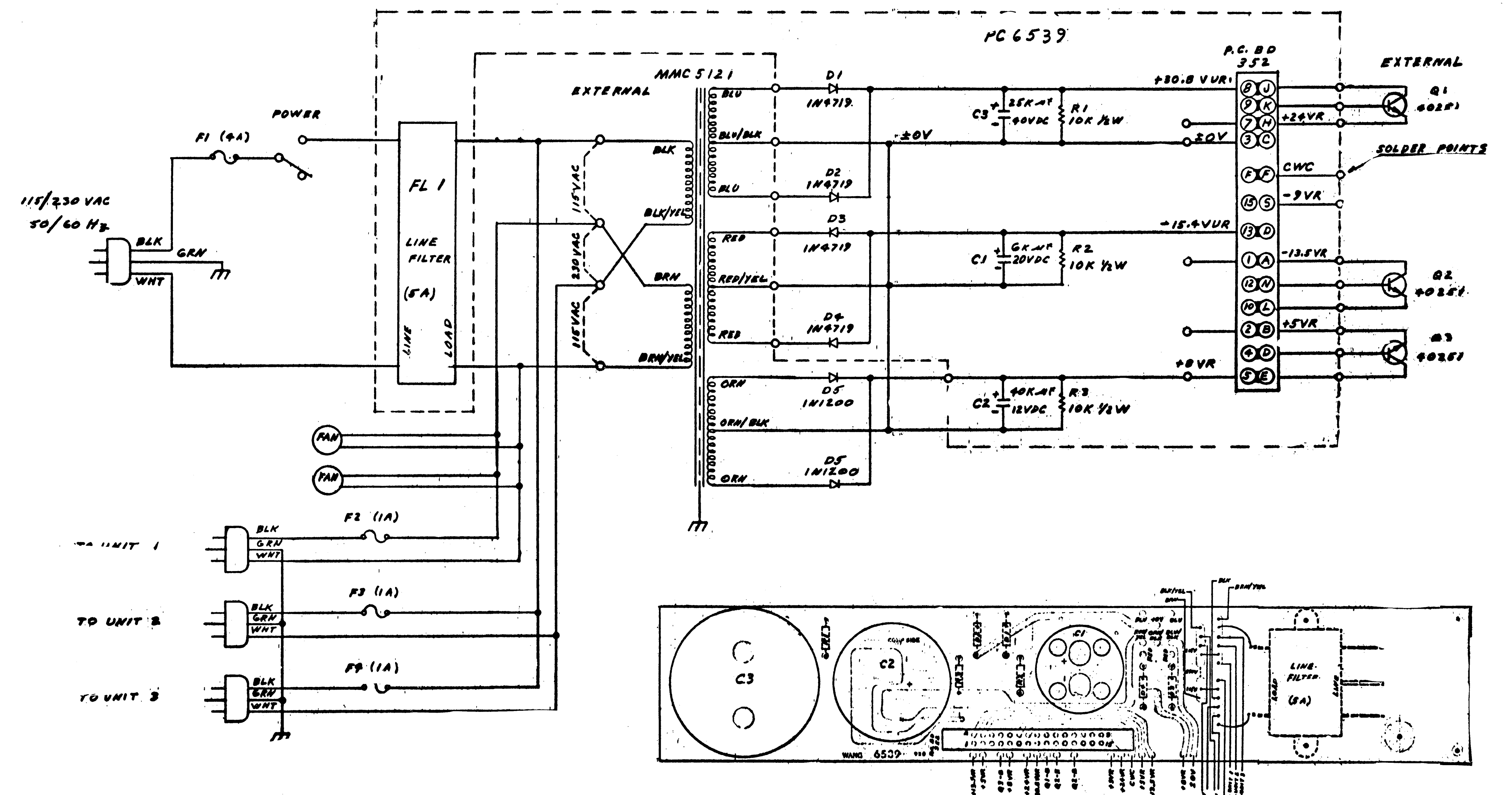
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.
2243	4-3-74	
	CHECKED 5/10/74	APP.

TITLE: MOTHER BOARD 6538

SHT 4 OF 5 — D — DWG. NO. 6538 — REV 2

D 6538-1



NOTE:-
1. FILTER, DIODES AND RESISTORS TO BE MOUNTED ON SOLDER SIDE

WANG LABORATORIES INC — PL 6539-4 — A — 210-6539 — POWER SUPPLY

			4					
			1		610-6539		6539 PC BOARD	1
			1		410-2002		5 AMP 5B1 LINE FILTER	2
			4		380-3002		1N7419 RECTIFIER	3
			1		350-0011		929-21521-110 PC CONN SOLDER TYPE	4
			1		300-3019		6000 UF 20V ELEC. CAP	5
			1		300-3044		40000 UF 12V ELEC CAP	6
			1		300-3046		25 K MF 40V ELEC. CAP	7
			3		331-4010		10 K OHM ½W 10% RES	8
								9
			R			D6539-1	SCHEMATIC	10

2243 — PL 6539-4

REVISION: 1 — REVISED PER RFA #0206 — APP'D — 6/12/74

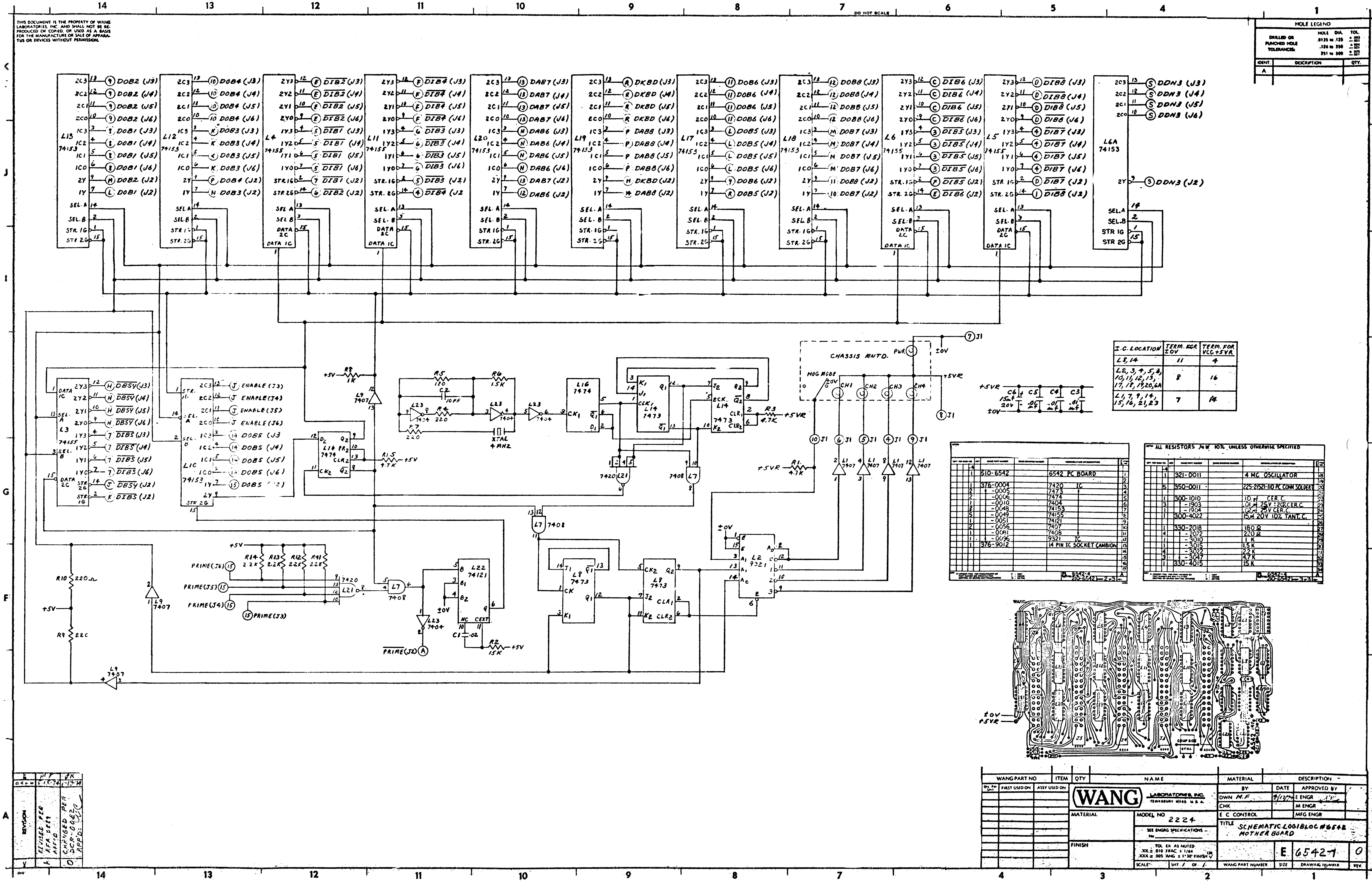
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 2243 — DRAWN 3/29/74 — APP. 4/12/74

TITLE: SCHEMATIC 6539 POWER SUPPLY

DWG. NO. D 6539-1 — REV. 1

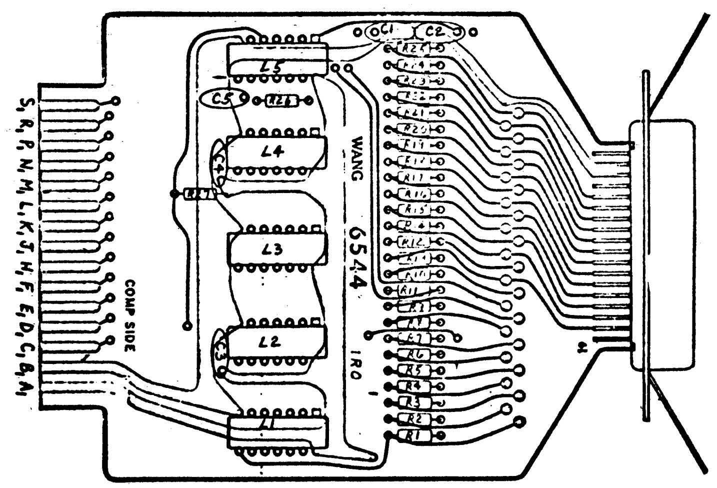
D 6539-1

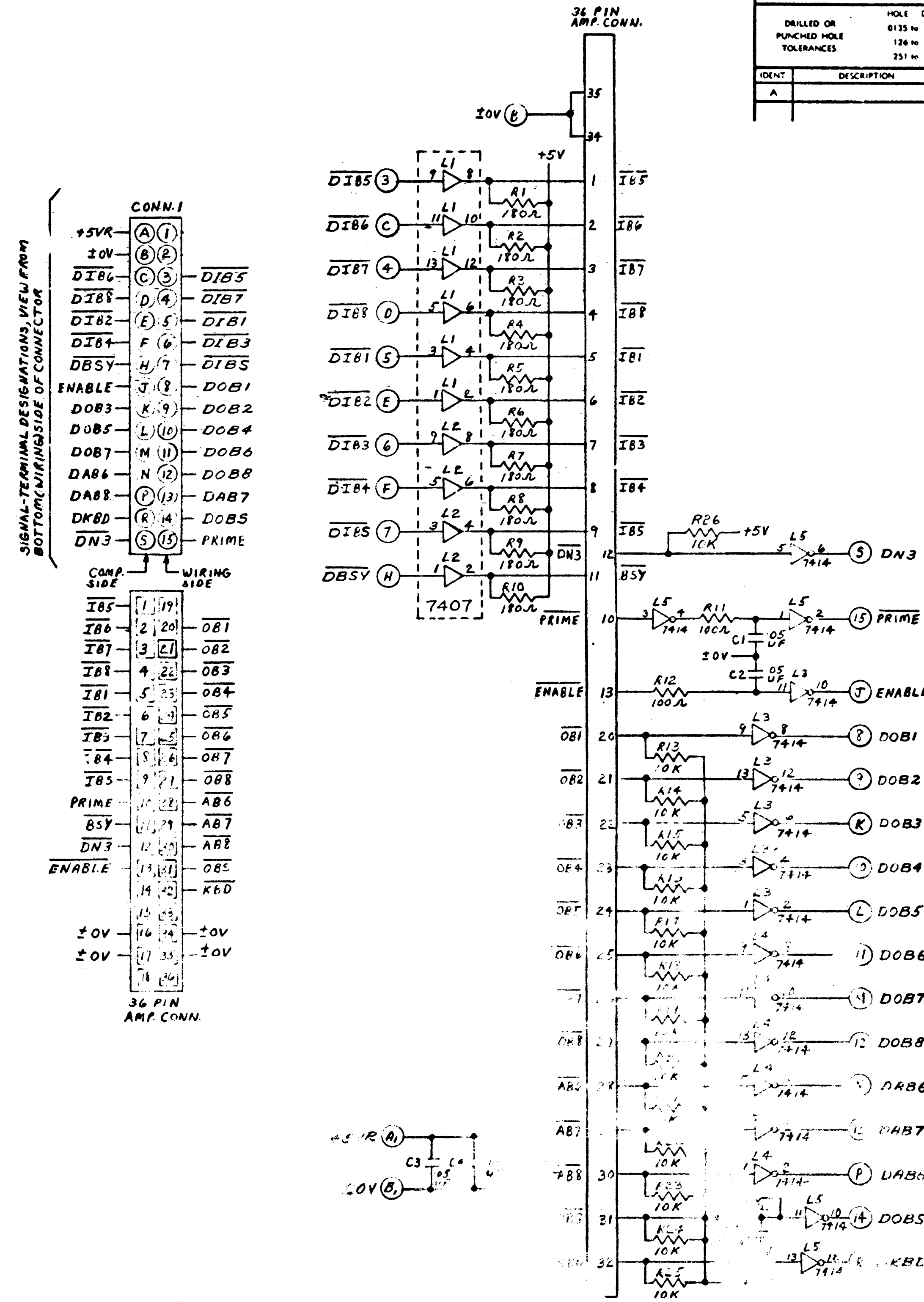


THIS DOCUMENT IS THE PROPERTY OF WANG LABORATORIES, INC. AND SHALL NOT BE REPRODUCED OR COPIED, OR USED AS A BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION.
DO NOT SCALE
HOLE LEGEND
DRILLED OR PUNCHED HOLE TOLERANCES
L13 74153
L12 74153
L4 74155
L11 74155
L20 74153
L19 74153
L17 74153
L18 74153
L6 74155
L5 74155
L6A 74153
L3 74155
L10 74153
L16 7474
L14 7473
L8 7473
L2 9321
L22 74121
L7 7408
L21 7420
L23 7404
L9 7407
L1 7407
CHASSIS MNTD.
MOG MODE
PWR
CH1
CH2
CH3
CH4
XTAL 4 MHZ
PRIME (J6)
PRIME (J5)
PRIME (J4)
PRIME (J3)
PRIME (J2)
I.C. LOCATION | TERM. FOR ±0V | TERM. FOR VCC+5VR
L8, 14 | 11 | 4
L2, 3, 4, 5, 6, 10, 11, 12, 13, 17, 18, 19, 20, 6A | 8 | 16
L1, 7, 9, 14, 15, 16, 21, 23 | 7 | 14
510-6542 6542 PC BOARD
376-0004 7420 IC
-0005 7473
-0006 7474
-0010 7404
-0048 74153
-0049 74155
-0051 74121
-0056 7407
-0081 7408
-0096 9321 IC
376-9012 14 PIN IC SOCKET CAMBION
ALL RESISTORS 1/4W 10% UNLESS OTHERWISE SPECIFIED
321-0011 4 MC OSCILLATOR
350-0011 225-21521-110 PC CONN SOLDER
300-1010 10 pf CER. C.
-1903 .01 µf 25V ±20% CER. C.
-1904 .02 µf 25V CER. C.
300-4022 15 µf 20V 10% TANT. C.
330-2018 180 Ω
-2022 220 Ω
-3010 1 K
-3015 1.5 K
-3022 2.2 K
-3047 4.7 K
330-4015 15 K
WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.
MODEL NO 2224
DWN N.F.
TITLE SCHEMATIC LOGIBLOC #6542 MOTHER BOARD
E 6542-1 0
SHT 1 OF 1

DO NOT SCALE

HOLE LEGEND			
	HOLE DIA		TOL
DRILLED OR PUNCHED HOLE TOLERANCES	0135 to 125		
	126 to 250		
	251 to 500		
IDENT	DESCRIPTION		QTY
A			





NOTES: ALL RESISTORS 1/4W 10% UNLESS SPECIFIED OTHERWISE						
QTY PER DASH NO -4	KEY	WANG PART NUMBER	WANG DRAWING NUMBER	NOMENCLATURE OR DESCRIPTION	LOCATION	ITEM NO
1		510-6544		6544 PC BOARD		1
						2
2		376-0056		7407 IC	L1,2	3
3		376-0139		7414 IC	L3,4,5	4
						5
4		300-1900		.05 µf 12V CER.C.		6
1		300-1910		.0047 µf 500V CER. C.		7
3		330-2010		100 Ω		8
10		330-2018		180 Ω		9
14		330-4010		10 K		10
						11
						12
1		350-1038		57-40360 CONN NON-HI-BARRIER		13
						14
						15
						16
X			D 6544-1	SCHEMATIC		17

PL 6544-4 — 210-6544 — SHEET 2 of 2 — REV B

I.C. LOCATION	TERM. FOR ±0V	TERM FOR VCC +5VR
L1,2	7	14
L3,4,5	7	14

REVISION		
A	REVISED PER RFA 0288 APPD	
0	CHANGE PER DCR-2382	[illegible]

WANG LABORATORIES INC. TEWKSBURY, MASS.

BY	DATE	APPROVED BY	DATE
C.M.F.	[illegible]	E ENGR	
CK		M ENGR	
E C CONTROL		MFG ENGR	

MATERIAL

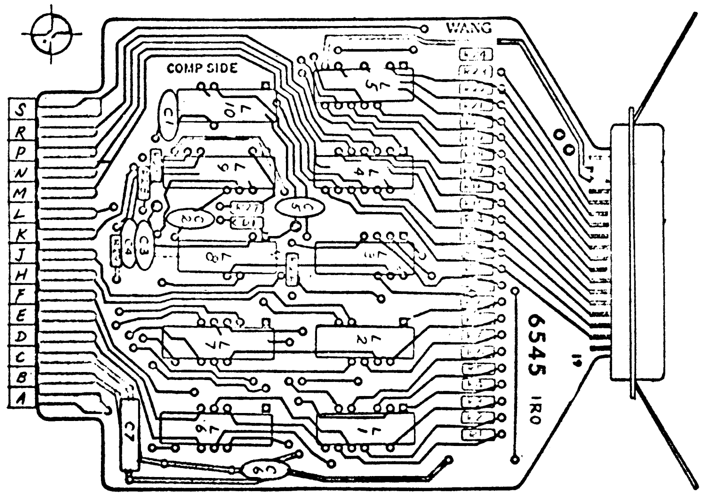
FINISH

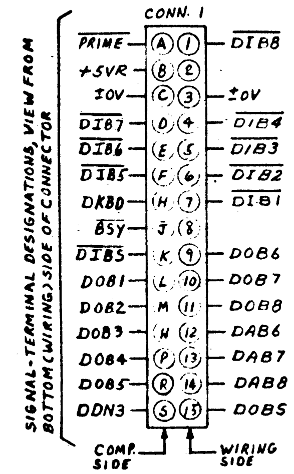
TOL. EX. AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH

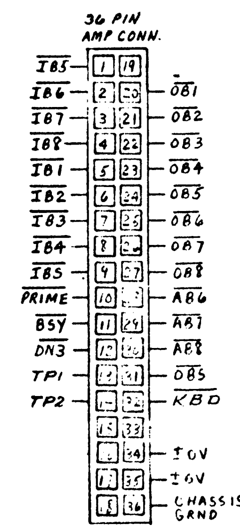
TITLE SCHEMATIC LOGIC BLOCK #6544 2200 DISK MULTIPLEXER

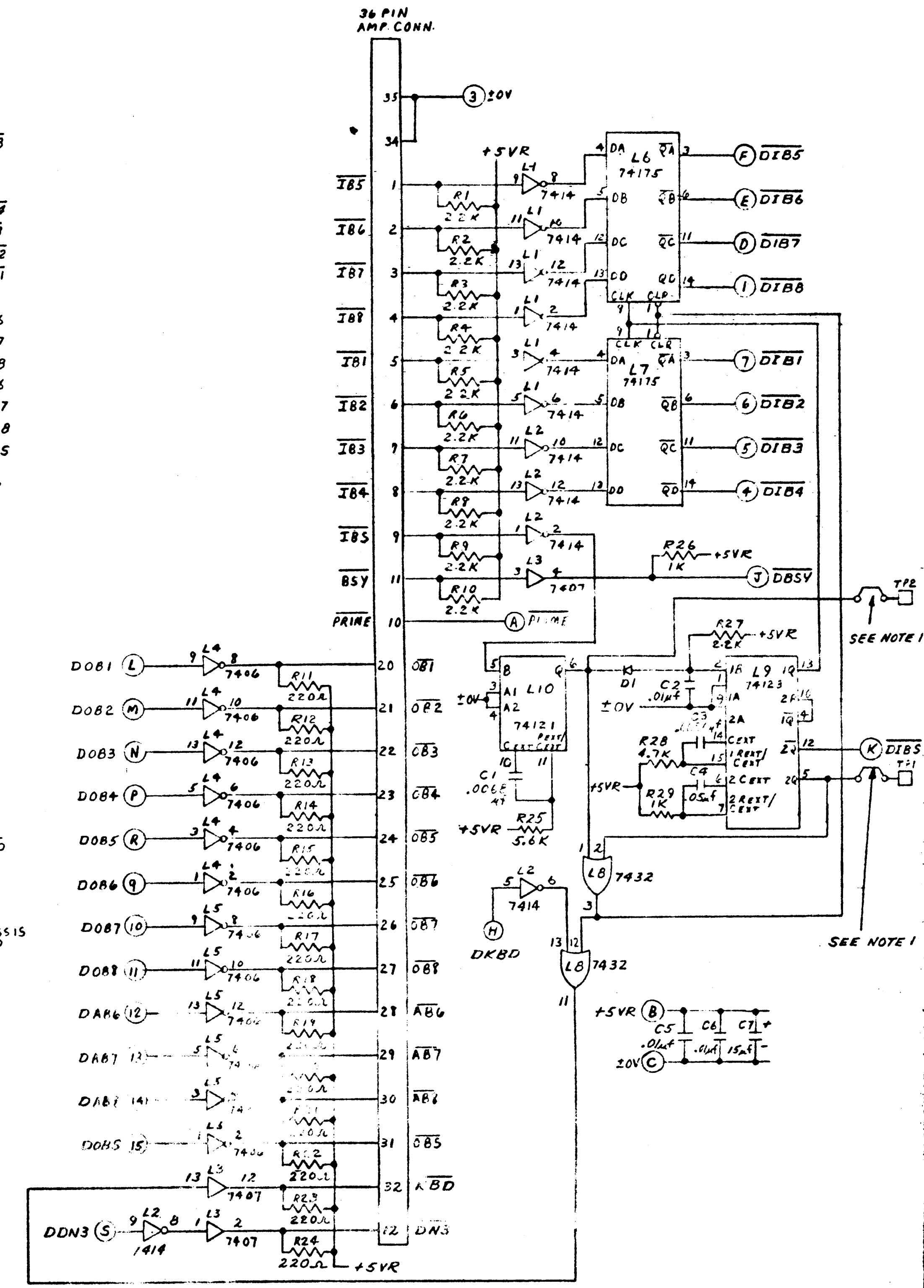
SIZE	DRAWING NUMBER	REV
D	6544-1	0

DO NOT SCALE









NOTE
1. JUMPERS ON TEST POINTS TP1 AND TP2 SHALL BE DISCONNECTED AFTER TESTING

ALL RESISTORS 1/4 W 10% UNLESS SPECIFIED OTHERWISE

QTY PER DASH NO. -4	KEY	WANG PART NUMBER	WANG DRAWING NUMBER	NOMENCLATURE OR DESCRIPTION	LOCATION	ITEM NO
1		510-6545		6545 PC BOARD		1
						2
1		376-0051		74121 IC	L10	3
2		-0055		7406	L4,5	4
1		-0056		7407	L3	5
1		-0080		74123	L9	6
1		-0093		7432	L8	7
2		-0119		74175	L6,7	8
2		376-0139		7414 IC	L1,2	9
						10
						11
1		380-1001 48		30V SIL DIODE		12
						13
1		350-1038		57-40360 CONN NON-HI-BARRIER		14
						15
						16
						17

PL 6545-4 — 210-6545 — SHEET 2 OF 3 — REV A

QTY PER DASH NO. -4	KEY	WANG PART NUMBER	WANG DRAWING NUMBER	NOMENCLATURE OR DESCRIPTION	LOCATION	ITEM NO
4		300-1903		.01 UF 25V CER CAP		18
1		300-4022		15UF 20V TANT CAP		19
1		300-1900		.05 UF 12V CER CAP		20
15		330-2022		220 Ω		21
						22
11		-3022		2.2 K		23
[illegible]		-3047		4.7 K		24
[illegible]		330-3056		5.6 K		25
2		330-3010		1 K		26
1		300-1911		.0068uf CER.		27
1		300-1915		.0056uf CER.		28
						29
						30
						31
						32
						33
X			D 6545-1	SCHEMATIC		34

PL 6545-4 — 210-6545 — SHEET 3 OF 3 — REV B

I.C. LOCATION	TERM FOR ±0V	TERM FOR VCC +5VR
L1,2	7	14
L3	7	14
L4,5	7	14
L6,7	8	16
L8	7	14
L9	8	16
L10	7	14

REVISION			
	M.F. 5-6-74	M.F. 5-3-74	BR 4-15-74
	REVISED PER RPA 0887 APP'D	REVISED PER RPA 0915 APP'D	CHANGED PER DCP 0082 APP'D
	A	B	0

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. — DRAWN M.F. — CHECKED — APP.

TITLE: SCHEMATIC LOGIBLOC #6545 DISK MULTIPLEXER

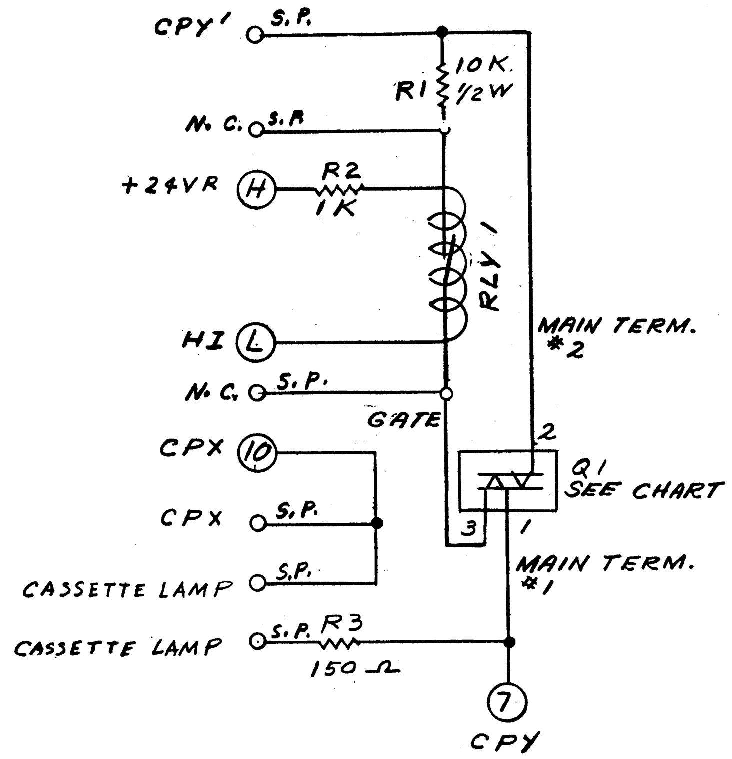
SHT 1 OF 1 — DWG. NO. D 6545-1 — REV. 0

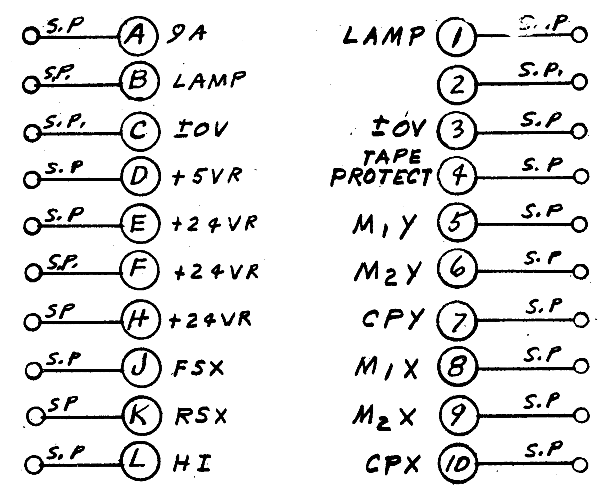
D 6545-1

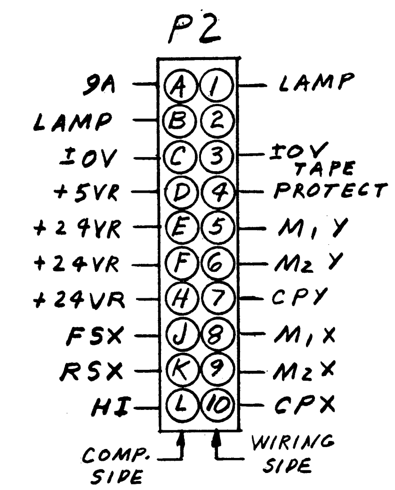
DO NOT SCALE

HOLE LEGEND			
	HOLE	DIA.	TOL.
DRILLED OR PUNCHED HOLE TOLERANCES:	.0135 to .125		+.003 −.001
	.126 to .250		+.004 −.001
	.251 to .500		+.005 −.001

IDENT.	DESCRIPTION	QTY.
A		

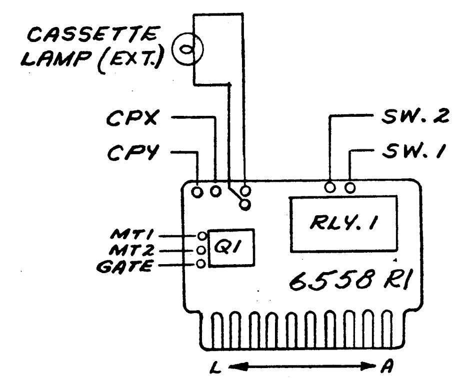






COMP.	W.L. PART No.
R1	331-4010
R2	330-3010
R3	330-2015
Q1	375-3002
RLY. 1	320-0047

NOTE:
1. FOR INTERCONNECTING DIAGRAM SEE DWG. D5996-123



"Q1" CHART

COMPONENT	TERMINAL MT1	TERMINAL MT2	TERMINAL GATE	PIN CALL-OUT
W.L. 375-3001 40526 (T2300B)	1	3	2	BOT. VIEW
W.L. 375-3002 2N6070B	1	2	3	TOP VIEW

E-REV 1

NO.	REVISION	DATE	BY
A	REVISED PER E.C.N. #4395 & 4395A APP: D	10/17/74	
0	RELEASE TO PROD. PER D.C.R. APPD.	11-21-74	F.S.S.
1	REVISED: PER E.C.N. #4552 & R.F.A. #13 APPD	2-8-75	F.S.S.

WANG PART NO.	ITEM	QTY.	NAME	MATERIAL	DESCRIPTION

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

MATERIAL

FINISH

MODEL NO. TD-24

SEE ENGRG SPECIFICATIONS No.

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

BY	DATE	APPROVED BY	DATE
DWN	7/22/74	E ENGR	
CHK	10/29-74	M ENGR	
E. C. CONTROL		MFG ENGR	

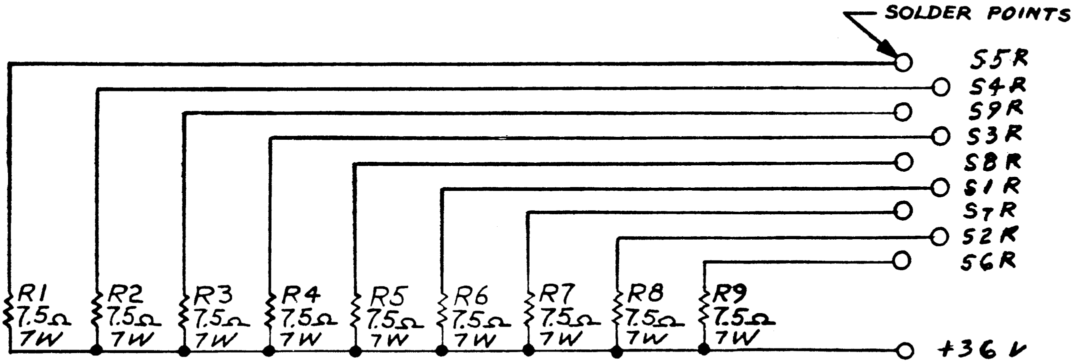
TITLE SCHEMATIC, AUTO ON/OFF 6558

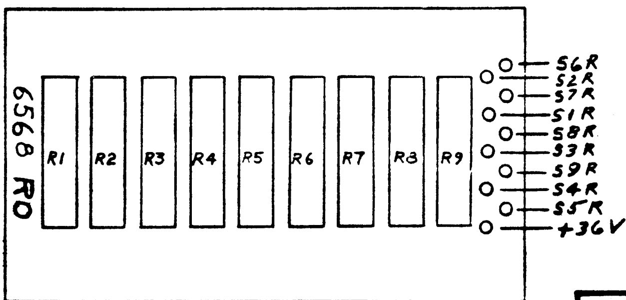
WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
210-6558	C	6558	1

SCALE SHT 4 OF 5

C 6558

DO NOT SCALE





COMPONENT LAYOUT

COMPONENT	W.L. PART NO.
R1 – R9	334-0025

FOR INTERCONNECTION SEE E6635-999

E-REV 0

SH. 4 OF 5

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

MODEL NO.	DRAWN		APPD	
2272	EK	4-8-75	R. Chen	8-20-75
	CHECKED G.D.	4/10/75	APPD	

TITLE: SCHEMATIC LOGIBLOC RESISTOR BRACKET

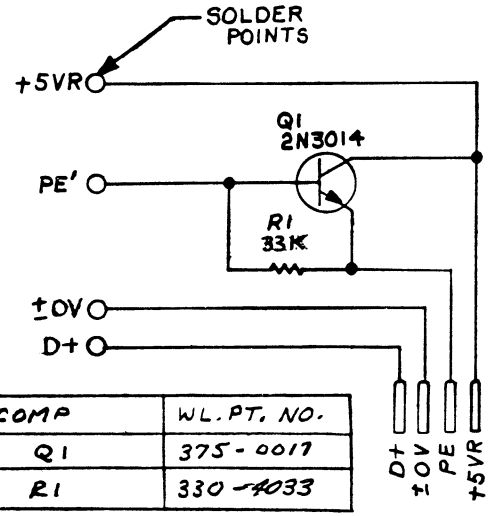
W.O. NO.	SCALE	DWG. NO.	REV
401	—	A 6568	1

210-6568

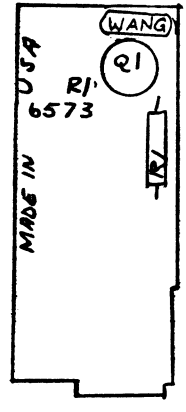
REVISIONS

	A	0	1
BY	E.K.	G.D.	JB
DATE	3-21-75	5-19-75	8-14-75
	ORIGINATED PER W.O.# 401 APP'D. P. Reilly	REL. TO Prod APP'D: R. 5-15-75	REV. PER RFA#1786 APP'D. Chen

DO NOT SCALE



COMP	WL. PT. NO.
Q1	375-0017
R1	330-4033



COMPONENT LAYOUT

E REV D

NO.	REVISION	DATE	BY
0/0	RELEASED TO PRODUCTION PER ECO #1394 APP'D: P Richen	1/14/75	ERA
1/1	RESISTOR R1 WAS 100K 1/4W, PER ECN #4522 5/21/75 APP'D: Robert Chen	5-21-75	ERA

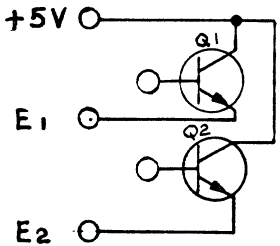
WANG LABORATORIES, INC.
TEWKSBURY, MASS. U. S. A.

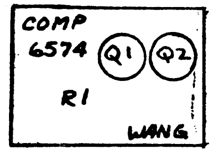
MODEL NO.	DRAWN		APPD	
MP 71	CHECKED P.R.	10-18-74	APPD	

TITLE: FINGER BOARD #2

~~W.O. NO.~~	SCALE	DWG. NO.	REV
SHT 4 OF 5		A 6573	1

DO NOT SCALE





COMPONENT LAYOUT

COMPONENT	W.L. PART NO.
Q1, Q2	375-2104

E.REV.
0

NO.	REVISION	DATE	BY
0/0	REVISED: PER D.C.R.#251 APP'D H.G.	11-8-74	E.S.G.
1/0	REV. PER RFA # 1769 APP'D H.G.	1-4-75	JRJ

WLI# 210-6574 Sheet 4 of 5

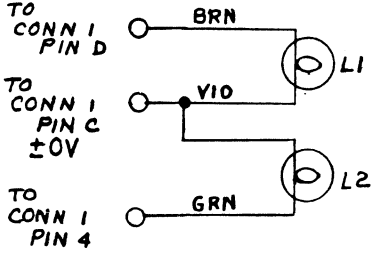
WANG LABORATORIES, INC.
TEWKSBURY, MASS. U. S. A.

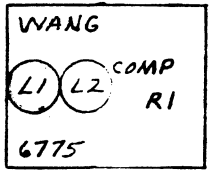
MODEL NO.	DRAWN GK	9-10-74	APPD
2221-W	CHECKED [illegible]	11.9.74	APPD

TITLE
PHOTOTRANSISTOR
MATRIX PRINTER

W.O. NO.	SCALE	DWG. NO. A 6574	REV 0

DO NOT SCALE





COMPONENT LAYOUT

COMPONENT	W.L. PART NO.
L1, L2	380 - 0104

E-REV
0

NO.	REVISION	BY	DATE
B	REVISED PER D.C.R.#252 APP'D M.G.	F.S.	8/14/74
%	REL TO PROD APP'D HG 8-4-75	G.D	9/26/75

WLI# 210-6575

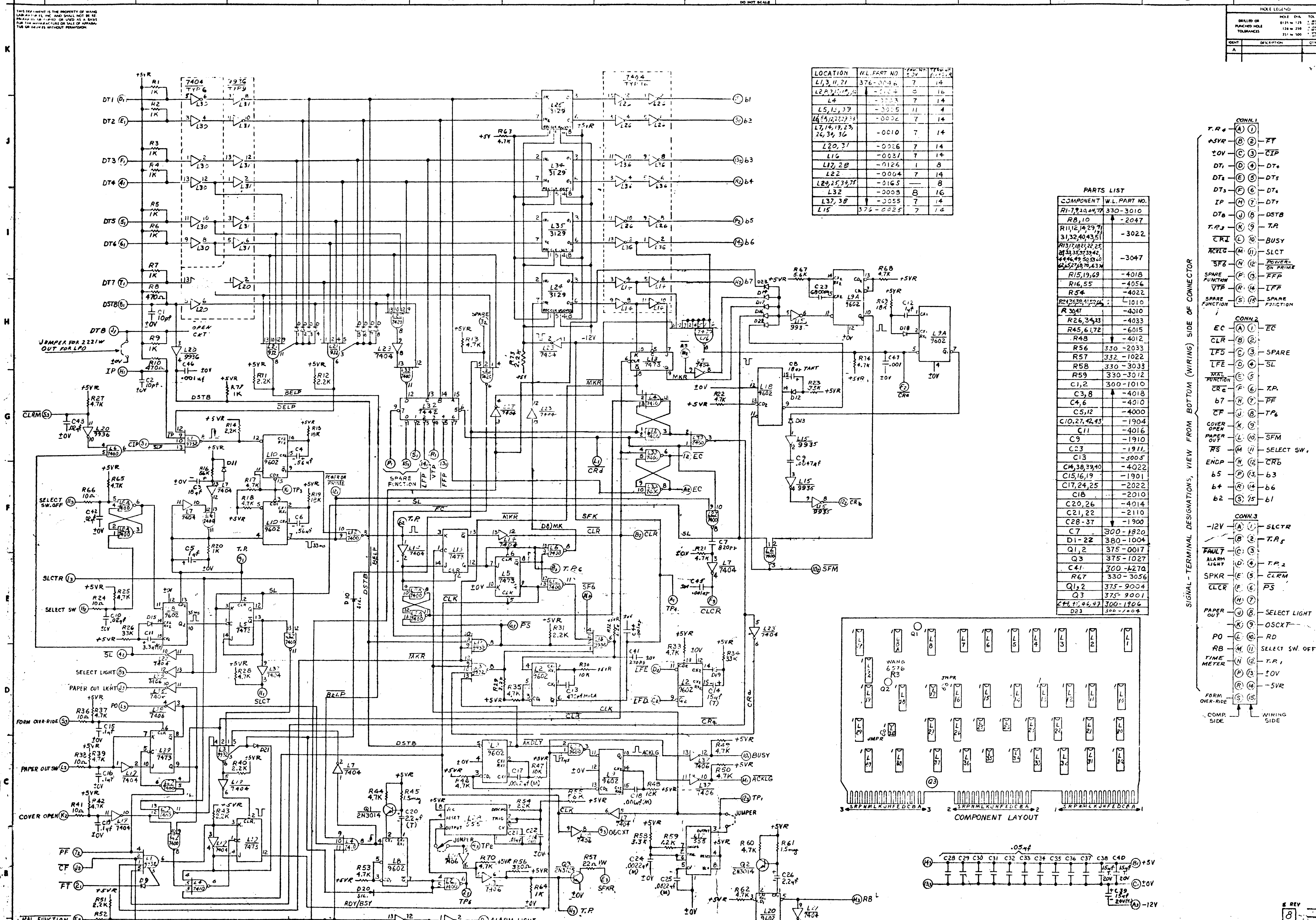
Sheet 4 of 5

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

MODEL NO.	DRAWN		APPD	
2221-W	CHECKED R.K.	9-11-74 / 11.9.74	APPD	

TITLE: LED (LAMP) MTG. MATRIX PRINTER

W.O. NO.	SCALE	DWG. NO.	REV
	—	A 6575	D



LOCATION	W.L. PART NO.	TERM. NO. ±0V	TERM NO. +5V
L1, 3, 11, 21	376-0046	7	14
L2, 8, 9, 10, 18, 24	-0104	8	16
L4	-0003	7	14
L5, 13, 39	-0005	11	4
L6, 6A, 12, 27, 29, 33	-0002	7	14
L7, 14, 17, 23, 26, 30, 36	-0010	7	14
L20, 31	-0026	7	14
L16	-0031	7	14
L17, 28	-0126	1	8
L22	-0004	7	14
L24, 25, 34, 35	-0165	—	8
L32	-0009	8	16
L37, 38	-0055	7	14
L15	376-0025	7	14

PARTS LIST

COMPONENT	W.L. PART NO.
R1-7, 9, 20, 64, 77	330-3010
R8, 10	-2047
R11, 12, 14, 29, 71, 73, 31, 32, 40, 43, 51	-3022
R13, 17, 18, 21, 22, 25, 28, 33, 35, 37, 39, 42, 44, 46, 49, 50, 53, 60, 62, 65, 27, 68, 70, 63, 74	-3047
R15, 19, 69	-4018
R16, 55	-4056
R54	-4022
R24, 36, 38, 41, 52, 66	-1010
R 30, 47	-4010
R26, 34, 23	-4033
R45, 61, 72	-6015
R48	-4012
R56	330-2033
R57	332-1022
R58	330-3033
R59	330-3012
C1, 2	300-1010
C3, 8	-4018
C4, 6	-4010
C5, 12	-4000
C10, 27, 42, 43	-1904
C11	-4016
C9	-1910
C23	-1911
C13	-5005
C14, 38, 39, 40	-4022
C15, 16, 19	-1901
C17, 24, 25	-2022
C18	-2010
C20, 26	-4014
C21, 22	-2110
C28-37	-1900
C7	300-1820
D1-22	380-1004
Q1, 2	375-0017
Q3	375-1027
C41	300-4270
R67	330-3056
Q1, 2	375-9004
Q3	375-9001
C44, 45, 46, 47	300-1906
D23	300-1004

E REV 8

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION

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

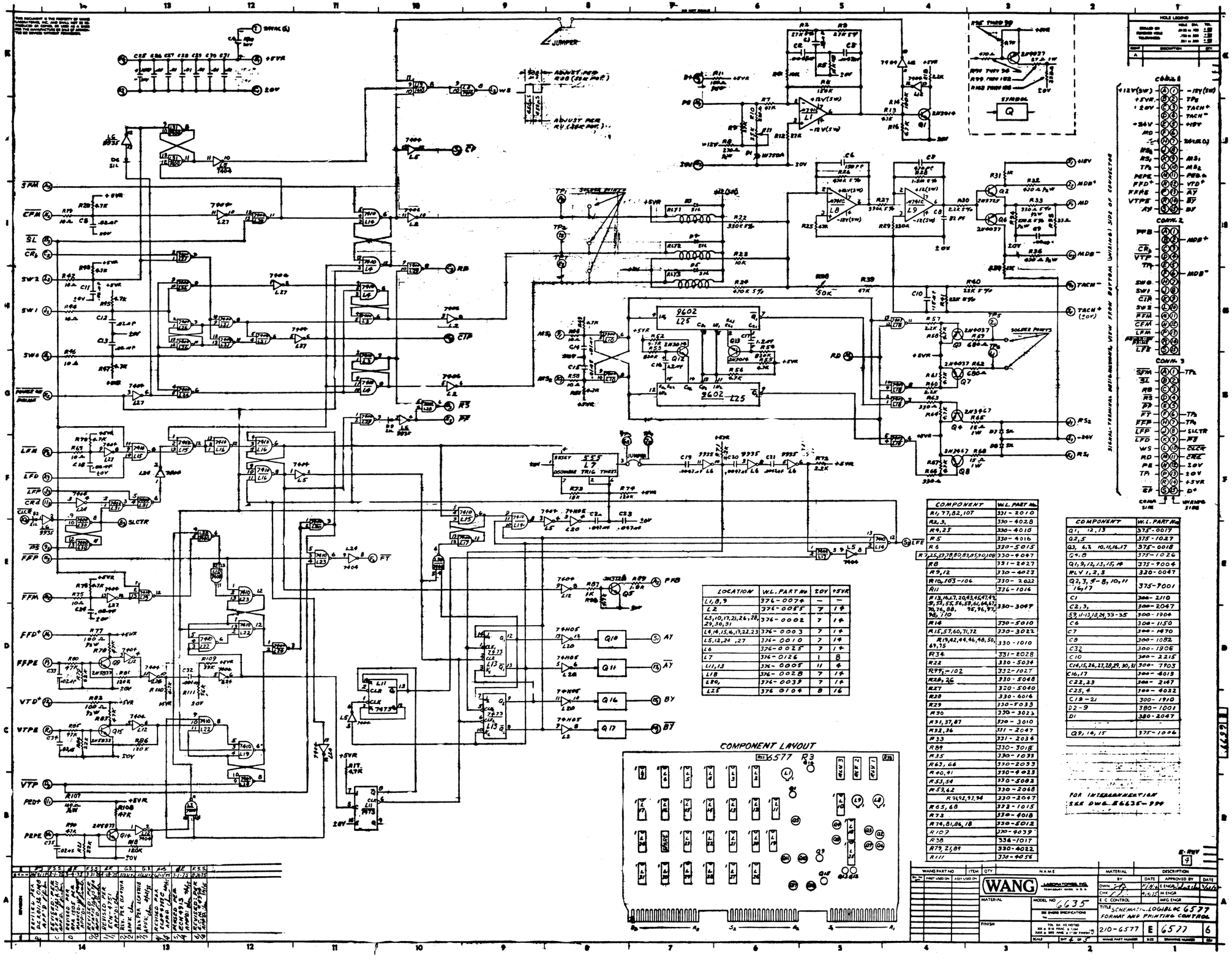
MODEL NO. 72

SEE ENGRG SPECIFICATIONS No.

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

TITLE: SCHEMATIC LOGIBLOC #6576 I/O CONTROL AND DATA STORAGE

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
210-6576	E	6576	8



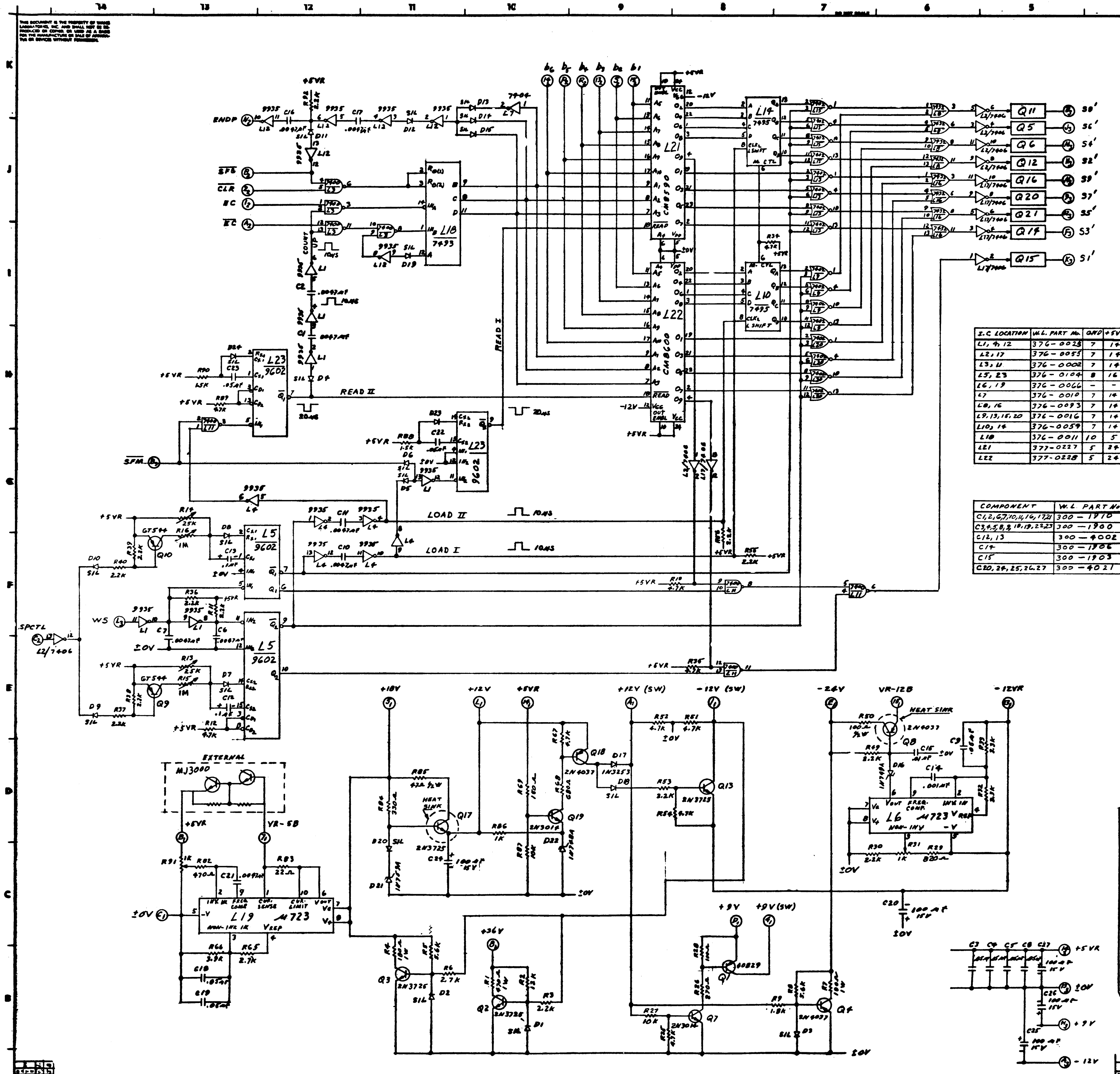
LOCATION	W.L. PART No	ΣDV	+5VR
L1,8,9	376-0074	—	—
L2	376-0065	7	1Ω
L3,10,17,21,26,28, 29,30,31	376-0002	7	1Ω
L4,14,15,16,19,22,23	376-0003	7	1Ω
L5,12,24 ,27	376-0010	7	1Ω
L6	376-0025	7	1Ω
L7	376-0126	1	8
L11,13	376-0005	11	4
L18	376-0028	7	1Ω
L20,	376-0039	7	1Ω
L25	376 0104	8	16

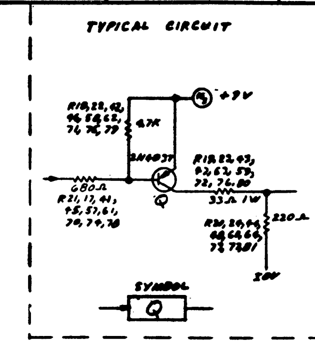
COMPONENT	W.L. PART No.
R1, 77, 82, 107	331-2010
R2, 3,	330-4028
R4, 23	330-4010
R5	330-4016
R6	330-5015
R 7, 25, 39, 78, 80, 83, 85, 90, 108	330-4067
R8	331-2027
R9, 12	330-4022
R10, 103-104	330-2022
R11	336-1016
R13, 16, 17, 20, 43, 45, 47, 49, 51, 54, 55, 56, 58, 61, 64, 67, 70, 76, 88, 94, 96, 97, 98, 110	330-3047
R14	330-5010
R15, 57, 60, 71, 72	330-3022
R19, 42, 44, 46, 48, 50, 69, 75	330-1010
R34	331-8028
R2	330-5036
R95-102	332-1027
R26, 36	330-5048
R27	330-5040
R28	330-6016
R29	330-5033
R30	330-3023
R31, 37, 87	330-3010
R32, 36	331-2047
R33	331-2036
R89	330-3018
R35	330-1033
R63, 66	330-2033
R40, 41	330-4023
R53, 54	330-5083
R52, 62	330-2068
R 91, 92, 93, 94	330-2047
R65, 68	333-1015
R73	330-4018
R74, 81, 86, 18	330-5012
R107	330-9039
R38	336-1017
R79, 21, 84	330-4022
R111	330-4056

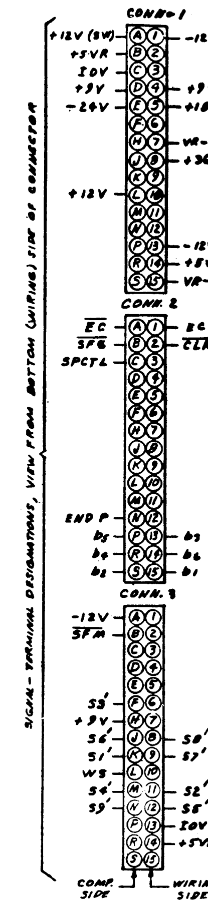
COMPONENT	W.L. PART No.
Q1, 12, 13	375-0017
Q2, 5	375-1027
Q3, 4, 7, 10, 11, 16, 17	375-0018
Q6, 8	375-1026
Q1, 9, 12, 13, 15, 18	375-9004
RLY 1, 2, 3	320-0047
Q2, 3, 5-8, 10, 11 16, 17	375-9001
C1	300-2110
C2, 3,	300-2047
C9, 11-13, 18, 24, 33-35	300-1904
C6	300-1150
C7	300-1470
C8	300-1082
C32	300-1906
C10	300-2215
C14, 15, 26, 27, 28, 29, 30, 31	300-7903
C16, 17	300-4013
C22, 23	300-2147
C25, 4	300-4022
C19-21	300-1910
D2-9	380-1001
D1	380-2047
Q9, 14, 15	375-1006

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
FIRST USED ON	ASSY USED ON		WANG LABORATORIES, INC. TEWKSBURY, MASS., U.S.A.	BY	DATE / APPROVED BY / DATE
			MATERIAL	DWN	E ENGR
			MODEL NO 6635	CHK	M ENGR
			SEE DWING SPECIFICATIONS	E C CONTROL	MFG ENGR
			FINISH	TITLE SCHEMATIC-LOGIBLOC 6577 FORMAT AND PRINTING CONTROL	
			TOL ON AS NOTED	210-6577	E 6577 6
			SCALE	WANG PART NUMBER	SIZE / DRAWING NUMBER / REV

E-RMV
4







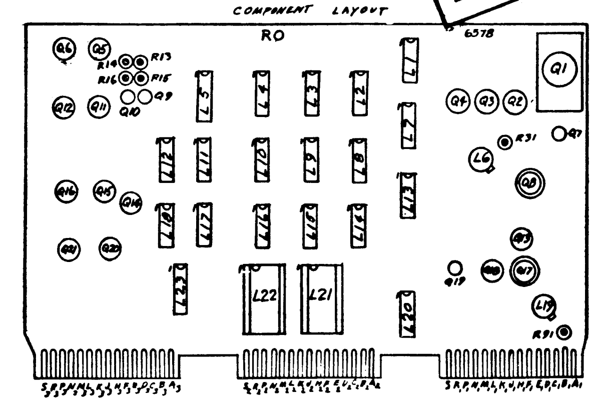
I.C LOCATION	W.L. PART No.	GND	+5VR
L1, 4, 12	376-0025	7	14
L2, 17	376-0055	7	14
L3, 11	376-0002	7	14
L5, 23	376-0104	8	16
L6, 19	376-0066	-	-
L7	376-0010	7	14
L8, 16	376-0093	7	14
L9, 13, 15, 20	376-0016	7	14
L10, 14	376-0059	7	14
L18	376-0011	10	5
L21	377-0227	5	24
L22	377-0228	5	24

COMPONENT	W.L. PART No.
C1, 2, 6, 7, 10, 11, 16, 17, 21	300-1910
C3, 4, 5, 8, 9, 18, 19, 22, 23	300-1900
C12, 13	300-4002
C14	300-1906
C15	300-1903
C20, 24, 25, 26, 27	300-4021

COMPONENT	W.L. PART No.
Q8, 17 HEAT SINK	375-9010
Q1	375-1032
Q2, 3, 13, 17	375-1027
Q4, 5, 6, 8, 11, 12, 14, 15, 16, 18, 20, 21	375-0018
Q7, 19	375-0017
Q9, 10	375-1011
R1	332-2047
R2	330-4012
R3, 11, 30, 36, 37, 38, 39, 40, 53, 55, 56, 49, 92	330-3022
R4, 7	332-2018
R5, 8	330-3056
R6, 65	330-3027
R9	330-3018
R10, 12, 18, 22, 25, 34, 35, 42, 46, 51, 52, 54, 58, 62, 67, 71, 75, 79, 89	330-3047
R13, 14	336-1007
R15-16	336-1009
R17, 21, 41, 45, 57, 61, 70, 74, 78, 68	330-2068
R19, 23, 43, 47, 59, 63, 72, 76, 80	332-1033
R20, 24, 44, 48, 60, 64, 73, 77, 81	330-2022
R26	330-2027
R27, 87	330-4010
R28	330-2010
R29	330-2082
R31, 91	336-1001
R32, 33	330-3033
R50	331-2010
R66	330-3039
R69	330-2015
R82	330-2047
R83	330-1022
R84	330-2033
R85	331-1047
R86	330-3010
R88, 90	330-3015
L21, 22	376-9003
D1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 18, 19, 20, 23, 24	380-1001
D16	380-2042
D17	380-3003
D21	380-2120
D22	380-2039

ECN NO. KFA 1413A PENDING 6578

COMPONENT LAYOUT



WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION

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

BY	DATE	APPROVED BY	DATE
DWN	12/24/74	E ENGR	
CHK	1-7-75	M ENGR	
E C CONTROL		MFG ENGR	

MATERIAL

FINISH

MODEL NO. MP-71

SEE ENGRG SPECIFICATIONS No. ____

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

SCALE SHT 4 OF 6

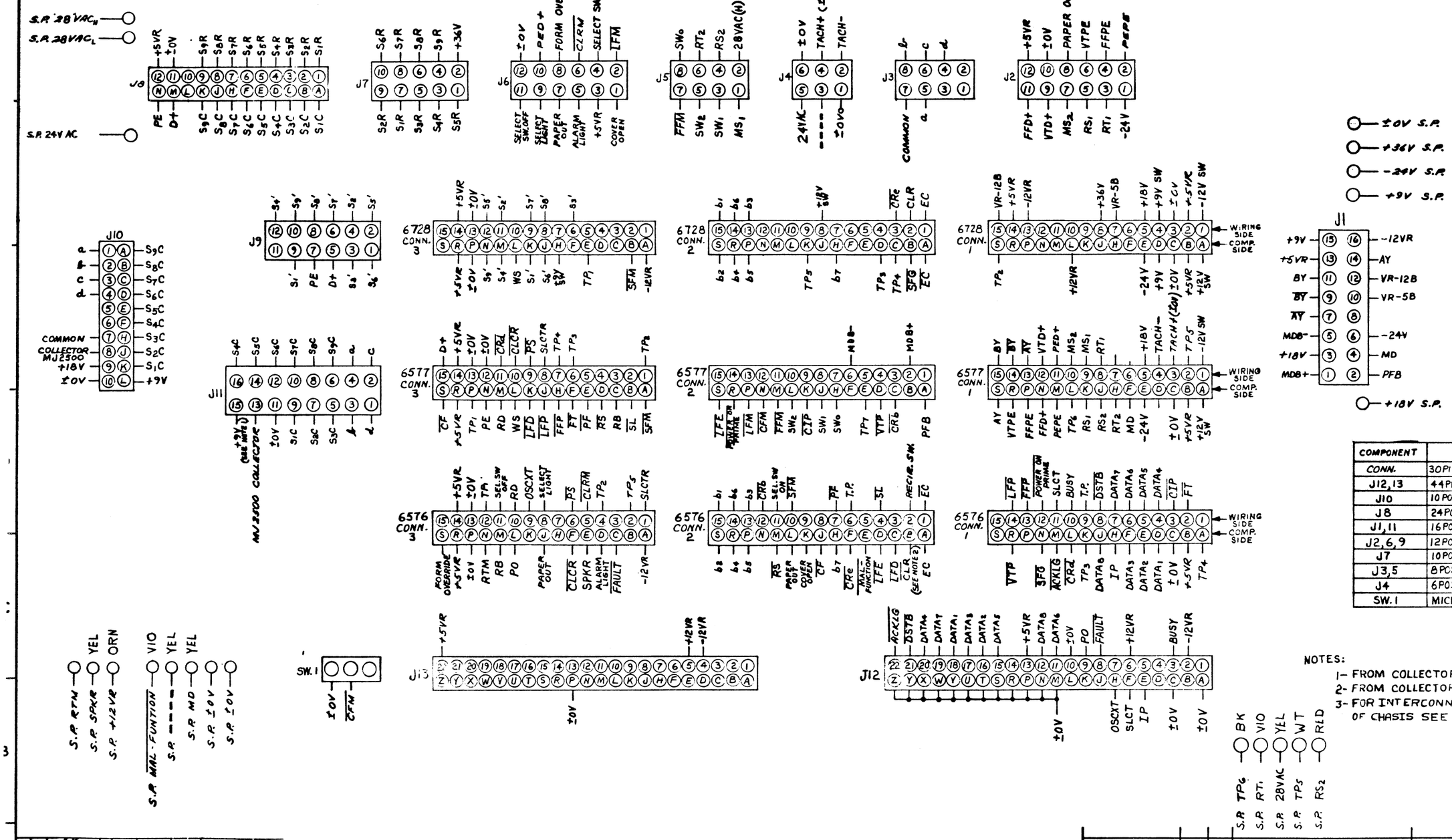
TITLE SCHEMATIC, LOGIBLOC 6578 POWER REGULATOR, CHARACTER AND PRINTING CONTROL

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.
210-6578	E	6578	C

DO NOT SCALE

HOLE LEGEND		
DRILLED OR PUNCHED HOLE TOLERANCES:	HOLE DIA	TOL
	.0135 to .125	± .003
	.126 to .250	± .004
	.251 to .500	± .005

IDENT.	DESCRIPTION	QTY
A		



COMPONENT	TYPE
CONN.	30 PIN PC SOLDER TYPE (CJ/AMP)
J12,13	44 PIN CONN. 50-44C-20
J10	10 POS. CONN. 225-21021-110 PC
J8	24 POS. CONN 50-24B-10 CJ
J1,11	16 POS. PIN HEADER ASSY. AMP 350-2141
J2,6,9	12 POS. PIN HEADER ASSY. AMP 350213-1
J7	10 POS. PIN HEADER ASSY. AMP 1-380991-0
J3,5	8 POS. PIN HEADER ASSY. AMP 350212-1
J4	6 POS. PIN HEADER ASSY. AMP 1-380999-0
SW.1	MICRO SWITCH ASSY. C6060-203

NOTES:
1- FROM COLLECTOR OF MJ 3000.
2- FROM COLLECTOR OF MJ 2500.
3- FOR INTERCONNECTION DIAG. OF CHASIS SEE DWG # E 6635-58

E REV 2

NO.	REVISION	DATE	BY	G.D.	G.D.	S.P.
0	REVISED PER RFA-1539, 1567A MARKED-UP RUN LIST. APP'D	12-13-75	BK	5/13/75	6-11-75	7-3-75
1	REVISED PER ECN# 4765 & ECN# 4801 & 4829 APP'D	1/1				
2	REVISED PER ECN# 4860 APP'D	2/2				
3	REVISED PER ECN# 4912 APP'D	3/2				

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
			WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.		

BY	DATE	APPROVED BY	DATE
DWN	2-4-75	ENGR	
CHK		M ENGR	
E C CONTROL		MFG ENGR	

MATERIAL — MODEL NO 2200 — SEE ENGRG SPECIFICATIONS No. — FINISH — TOL EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH 125 — SCALE — SHT 4 OF 5

TITLE: MOTHER BOARD

210-6579 | D | 6579 | 3

WANG PART NUMBER | SIZE | DRAWING NUMBER | REV

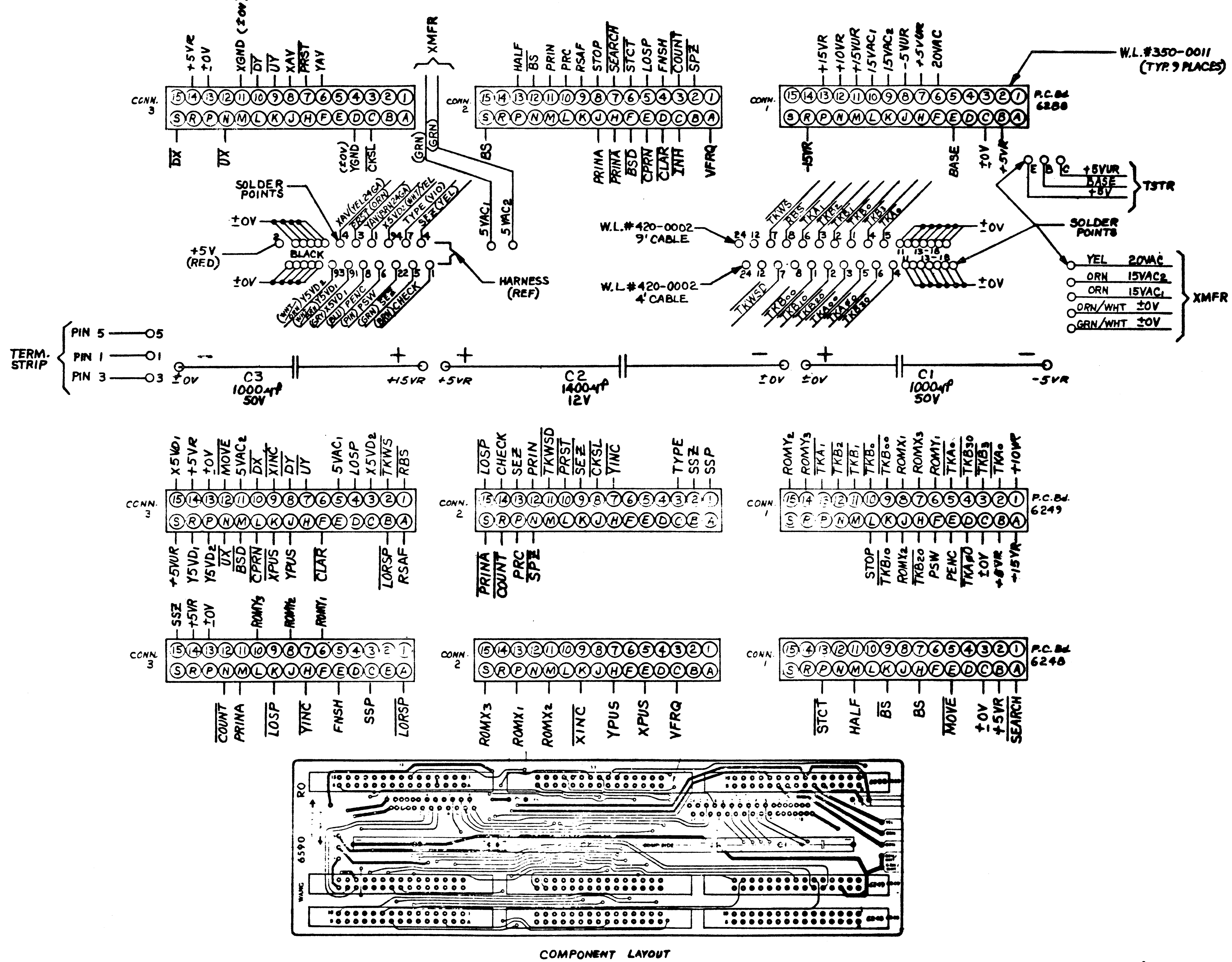
6579

DO NOT SCALE

HOLE LEGEND

DRILLED OR PUNCHED HOLE TOLERANCES

IDENT	DESCRIPTION	QTY
A		



COMPONENT	W.L. PART NO.
C1,3	300-3055
C2	300-3061
CONNECTORS	350-0011

REVISION
0 — RELEASED TO PROD PER ECR — 4-74
1 — REVISED PER ECR — 11-21-74
2 — Revised per ECR — 12-29-74

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION

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

	BY	DATE	APPROVED BY	DATE
DWN		9-9-74	E ENGR COF	
CHK		11-16-74	M ENGR	
E C CONTROL			MFG ENGR	

MATERIAL

FINISH

MODEL NO 612/712/2212

SEE ENGRG SPECIFICATIONS No.

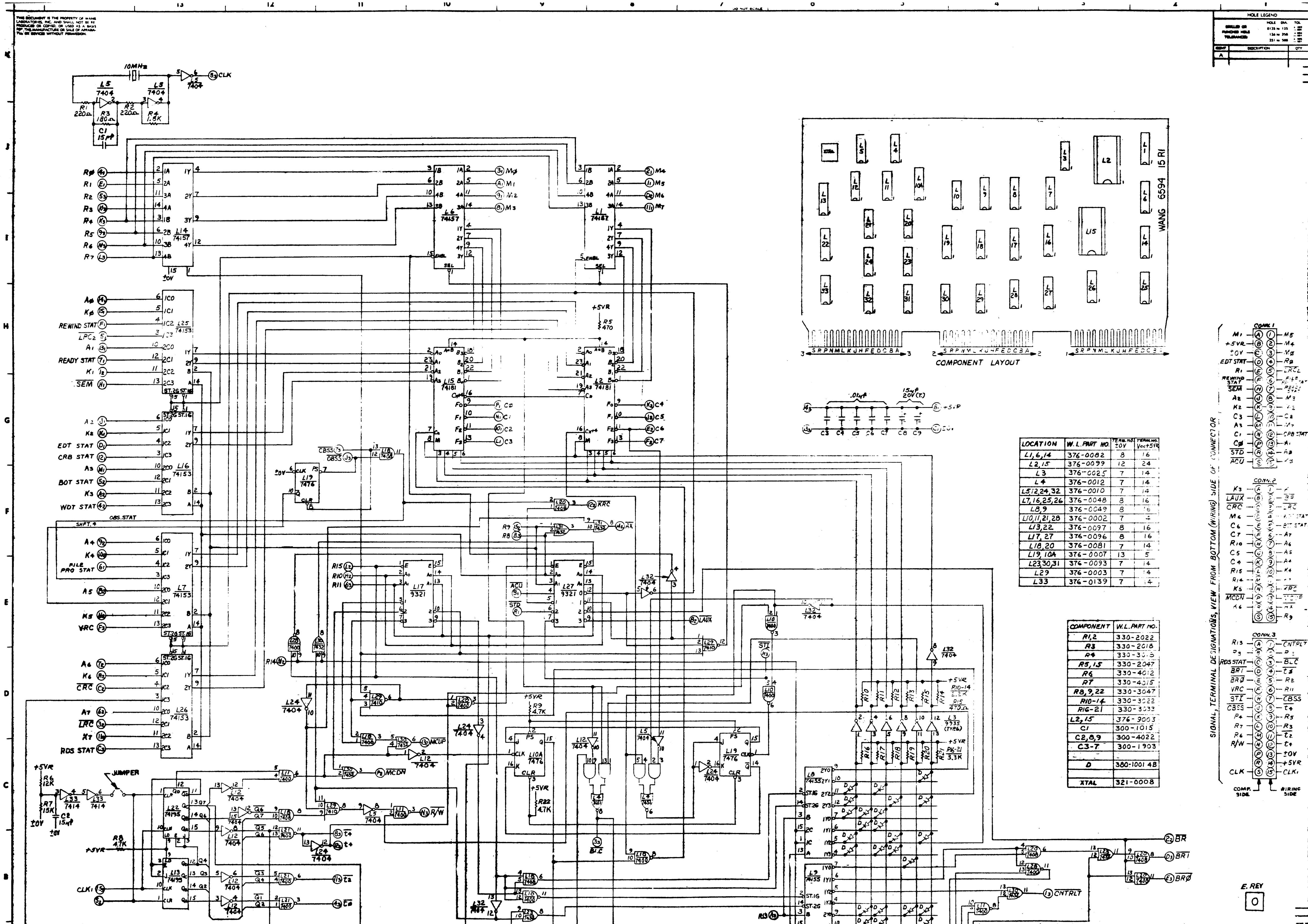
TOL EX AS NOTED

TITLE MOTHERBOARD FOR PLOTTER

WANG PART NUMBER: 210-6590 — SIZE: D — DRAWING NUMBER: 6590 — REV: 2

SCALE — SHT 4 OF

D 6590-1



LOCATION	W.L. PART NO.	TERM. NO. ±0V	TERM. NO. Vcc+5VR
L1,6,14	376-0082	8	16
L2,15	376-0099	12	24
L3	376-0025	7	14
L4	376-0012	7	14
L5,12,24,32	376-0010	7	14
L7,16,25,26	376-0048	8	16
L8,9	376-0049	8	16
L10,11,21,28	376-0002	7	14
L13,22	376-0097	8	16
L17,27	376-0096	8	16
L18,20	376-0081	7	14
L19,10A	376-0007	13	5
L23,30,31	376-0093	7	14
L29	376-0003	7	14
L33	376-0139	7	14

COMPONENT	W.L. PART NO.
R1,2	330-2022
R3	330-2018
R4	330-3015
R5,15	330-2047
R6	330-4012
R7	330-4015
R8,9,22	330-3047
R10-14	330-3022
R16-21	330-3033
L2,15	376-9003
C1	300-1015
C2,8,9	300-4022
C3-7	300-1903
D	380-1001 4B
XTAL	321-0008

E. REV 0

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

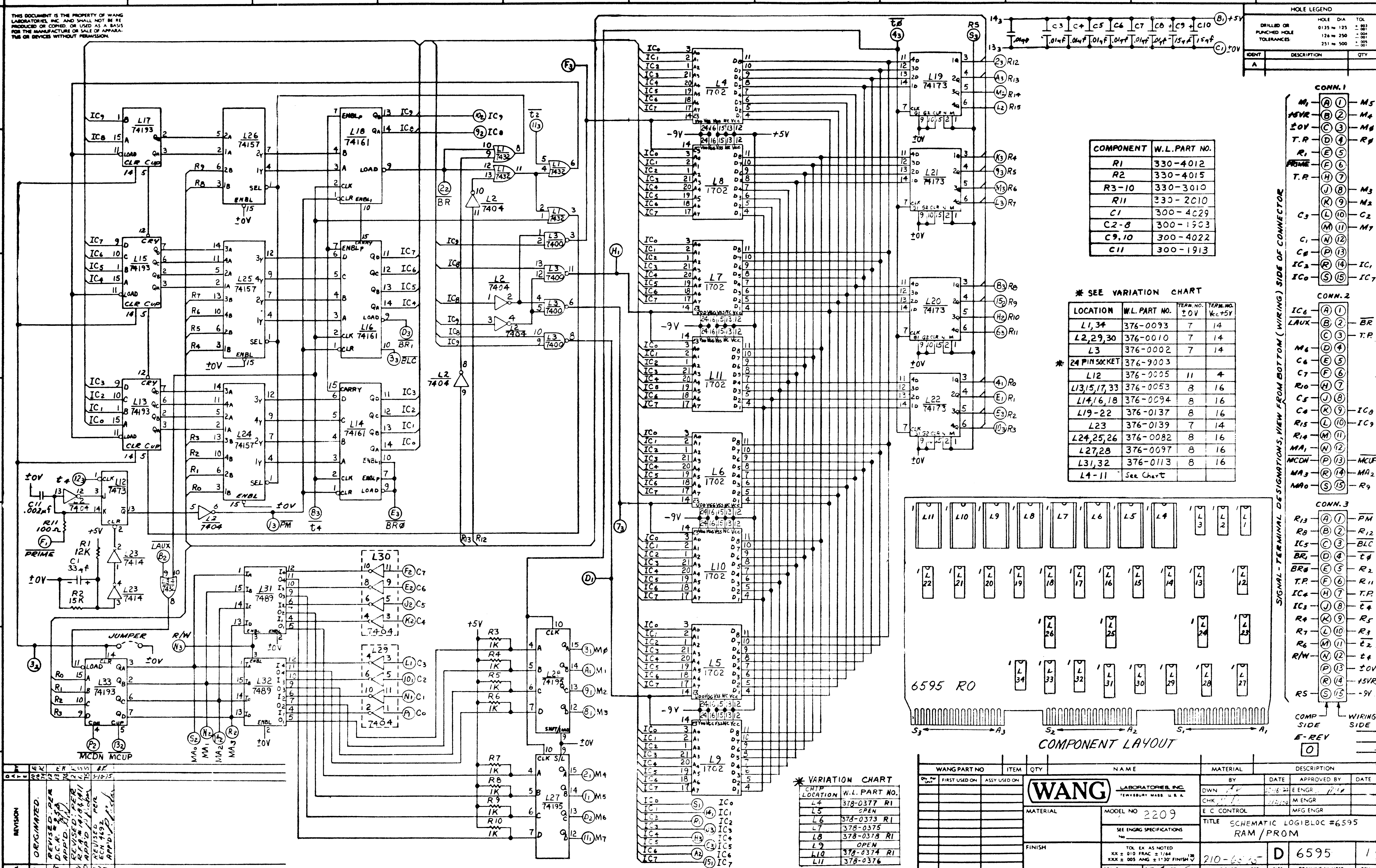
MODEL NO 2209

TITLE: SCHEMATIC LOGIBLOC 6594 MICRO PROCESSOR

WANG PART NUMBER 210-6594 | SIZE E | DRAWING NUMBER 6594 | REV 3

SHT 4 OF 5

DO NOT SCALE



COMPONENT	W.L. PART NO.
R1	330-4012
R2	330-4015
R3-10	330-3010
R11	330-2010
C1	300-4029
C2-8	300-1903
C9, 10	300-4022
C11	300-1913

✱ SEE VARIATION CHART

LOCATION	W.L. PART NO.	TERM. NO. ±0V	TERM. NO. Vcc +5V
L1, 34	376-0093	7	14
L2, 29, 30	376-0010	7	14
L3	376-0002	7	14
✱ 24 PIN SOCKET	376-9003		
L12	376-0005	11	4
L13, 15, 17, 33	376-0053	8	16
L14, 16, 18	376-0094	8	16
L19-22	376-0137	8	16
L23	376-0139	7	14
L24, 25, 26	376-0082	8	16
L27, 28	376-0097	8	16
L31, 32	376-0113	8	16
L4-11	See Chart		

✱ VARIATION CHART

CHIP LOCATION	W.L. PART NO.
L4	378-0377 R1
L5	OPEN
L6	378-0373 R1
L7	378-0375
L8	378-0378 R1
L9	OPEN
L10	378-0374 R1
L11	378-0376

HOLE LEGEND

	HOLE DIA	TOL
DRILLED OR PUNCHED HOLE TOLERANCES	.0135 to .125	+ .003 − .001
	.126 to .250	+ .004 − .001
	.251 to .500	+ .005 − .001

IDENT	DESCRIPTION	QTY
A		

REVISION: ORIGINATED; REVISED PER D.C.R. #____ APP'D; REVISED PER R.E.A. #____ APP'D; REVISED PER ECN 4692 APP'D

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

MODEL NO 2209

TITLE SCHEMATIC LOGIBLOC #6595 RAM / PROM

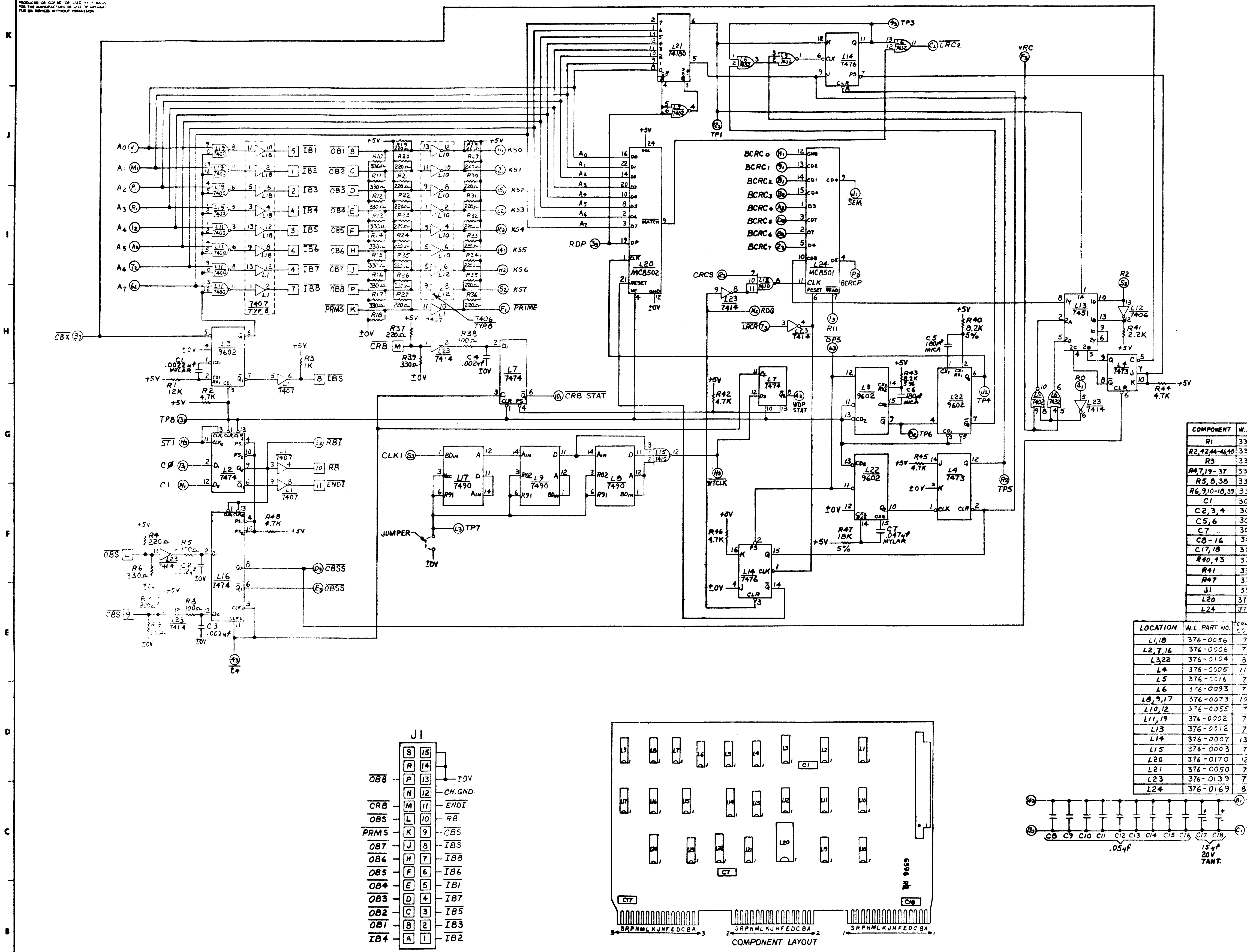
SIZE D DRAWING NUMBER 6595 REV 1

SHT 4 OF 6

WANG PART NUMBER 210-6595-

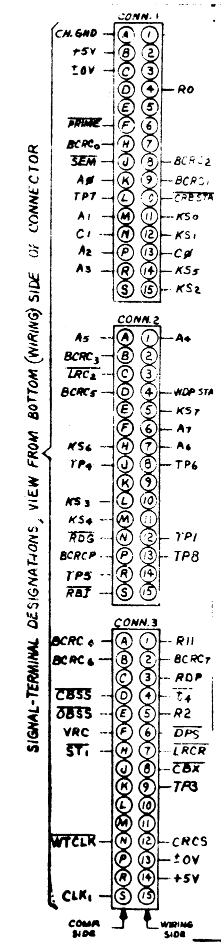
E-REV 0

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



COMPONENT	W.L. PART NO.
R1	330-4013
R2,42,44-46,48	330-3047
R3	330-3010
R4,7,19-37	330-2022
R5,8,38	330-2010
R6,9,10-18,39	330-2033
C1	300-2022
C2,3,4	300-1913
C5,6	300-5001
C7	300-2147
C8-16	300-1900
C17,18	300-4022
R40,43	332-3083
R41	330-3022
R47	330-4019
J1	350-0009
L20	376-9003
L24	376-9002

LOCATION	W.L. PART NO.	TERM.NO. ±0V	TERM.NO. Vcc+5V
L1,18	376-0056	7	14
L2,7,16	376-0006	7	14
L3,22	376-0104	8	16
L4	376-0005	11	4
L5	376-0016	7	14
L6	376-0093	7	14
L8,9,17	376-0073	10	5
L10,12	376-0055	7	14
L11,19	376-0002	7	14
L13	376-0012	7	14
L14	376-0007	13	5
L15	376-0003	7	14
L20	376-0170	12	24
L21	376-0050	7	14
L23	376-0139	7	14
L24	376-0169	8	16



E. REV. 1

WANG LABORATORIES, INC.

MODEL NO 2209

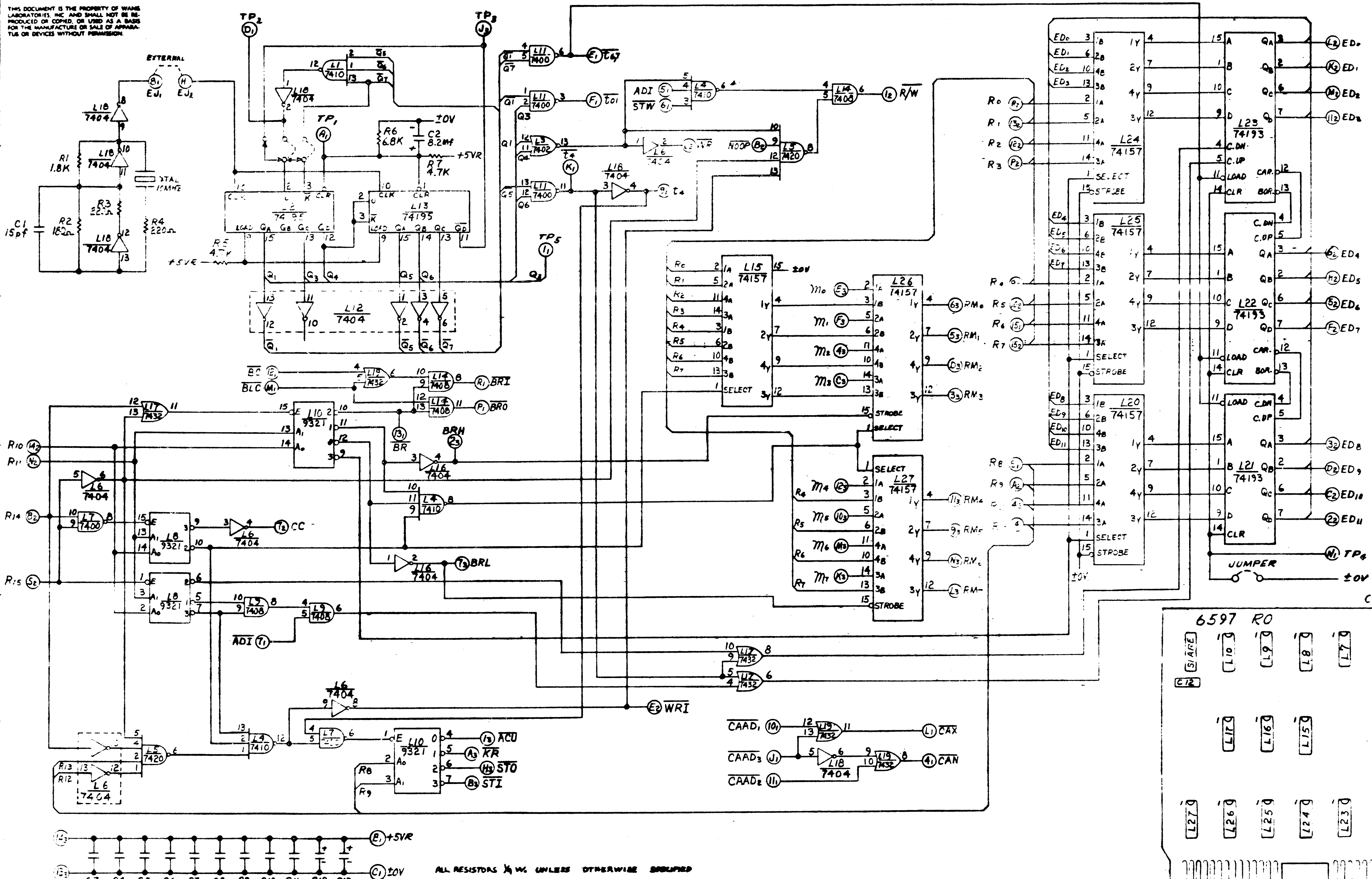
TITLE SCHEMATIC LOGIBLOC 6596 I/O TERMINATOR

210-6596 | E | 6596 | 2

SHT 4 OF 5

HOLE LEGEND		
	HOLE DIA	TOL
DRILLED OR PUNCHED HOLE TOLERANCES	0135 to 125	±
	126 to 250	±
	251 to 500	±

IDENT	DESCRIPTION	QTY
A		

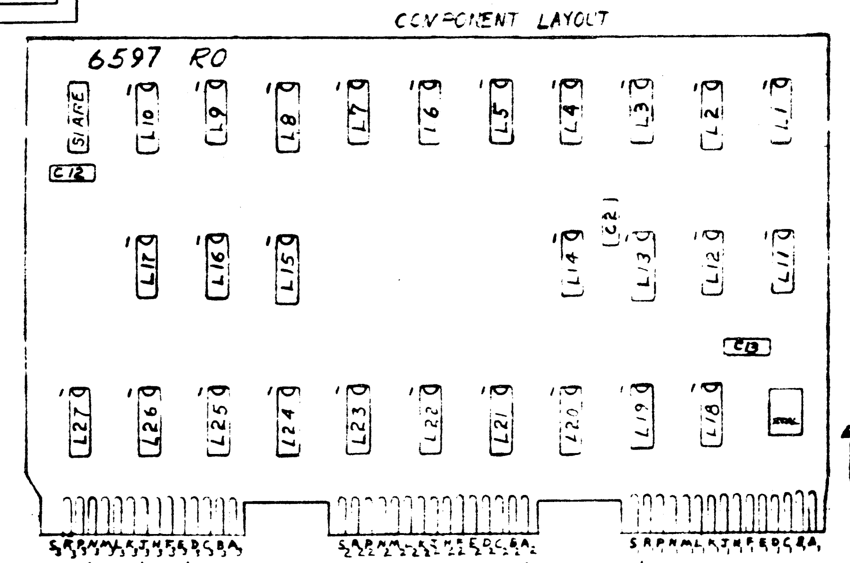


ALL RESISTORS ¼ W. UNLESS OTHERWISE SPECIFIED

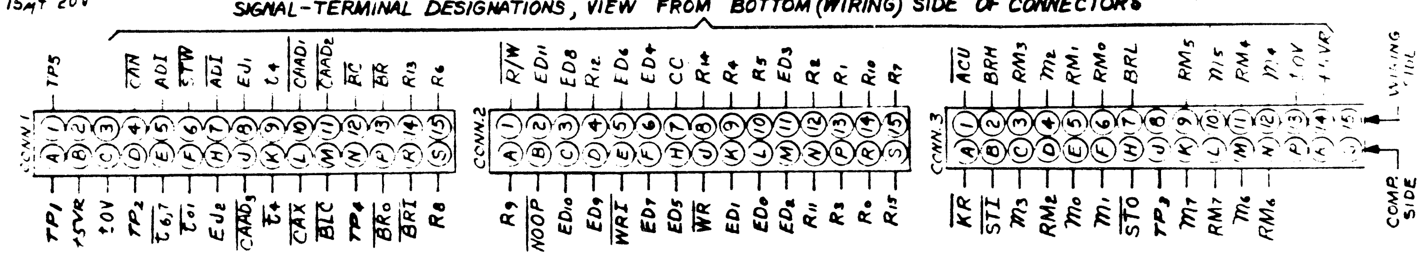
LOCATION	W.L. PART NO.	TERM. NO. ±0V	TERM. NO. VCC+5VR
L1,4	376-0003	7	14
L2,13	-0097	8	16
L3	-0016	7	14
L5	-0004	7	14
L6,12,16,18	-0010	7	14
L7,11	-0002	7	14
L8,10	-0096	8	16
L9,14	-0081	7	14
L15 20 24-27	-0082	8	16
L17,19	-0093	7	14
L21,22,23	376-0053	8	16

COMPONENT	W.L. PART NO.
R1	330-3018
R2	330-2018
R3,4	330-2022
R5,7	330-3047
R6	330-3068
C1	300-1015
C2	300-4028
C3-11	300-1900
C12,13	300-4022
10MHZ XTAL	321-0008

COMPONENT LAYOUT



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



REVISION

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION

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

BY	DATE	APPROVED BY	DATE
DWN		E ENGR	
CHK		M ENGR	
E C CONTROL		MFG ENGR	

MATERIAL

FINISH

MODEL NO

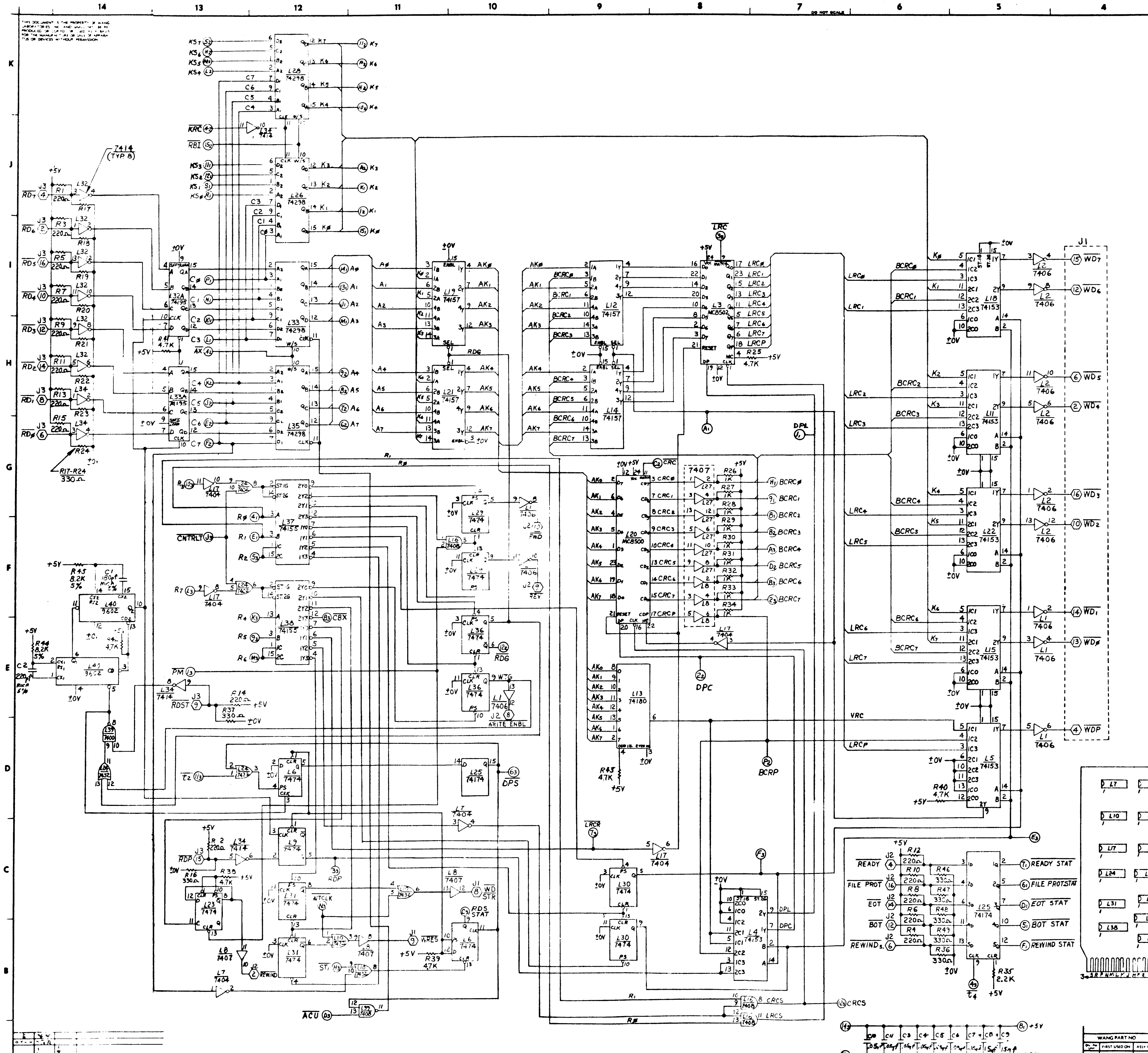
SEE ENGRG SPECIFICATIONS No

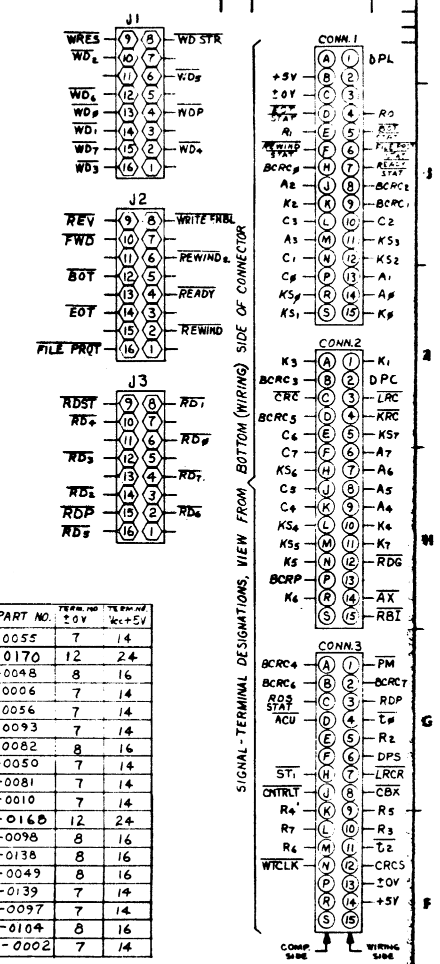
TOL EX AS NOTED .XX ± .010 FRAC ± 1/64 .XXX ± .005 ANG ± 1°30 FINISH

SCALE SHT 4 OF

TITLE SCHEMATIC LOGIBLOC # 6597 10 MHZ BIT MICROPROCESSOR

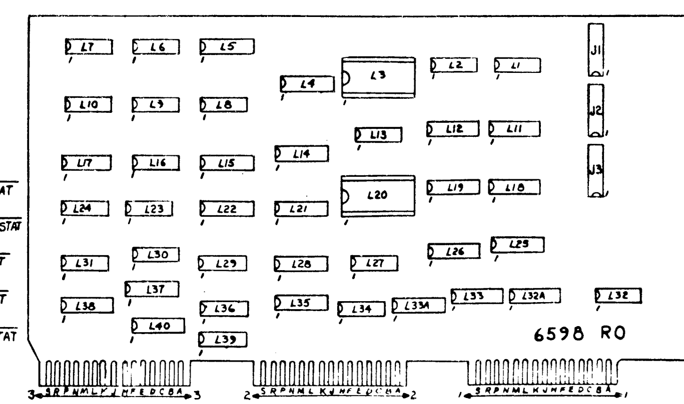
WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.
210-6597	D	6597	1





LOCATION	W.L. PART NO.	TERM. NO ±0V	TERM. NO Vcc+5V
L1,2	376-0055	7	14
L3	376-0170	12	24
L4,5,11,15,18,22	376-0048	8	16
L6,9,23,29,30,31,36	376-0006	7	14
L8,27	376-0056	7	14
L10,24	376-0093	7	14
L12,14,19,21	376-0082	8	16
L13	376-0050	7	14
L16	376-0081	7	14
L7,17	376-0010	7	14
L20	376-0168	12	24
L25	376-0098	8	16
L26,28,33,35	376-0138	8	16
L37,38	376-0049	8	16
L32,34	376-0139	7	14
L32A,33A	376-0097	7	14
L40	376-0104	8	16
L39	376-0002	7	14

COMPONENT	W.L. PART NO.
J1,2,3	376-9005
R1-15	330-2022
R26-34	330-3010
R25,38-43	330-3047
R35	330-3022
R16-24,36,37,46-49	330-2033
C1	300-5001
C2	300-5004
C3-7,10,11	300-1900
C8,9	300-4022
R44,45	330-3083
L3,20	376-9003



E. REV. 0

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

MODEL NO 2209

TITLE SCHEMATIC LOGIBLOC 6598 TAPE CONTROL

E 6598

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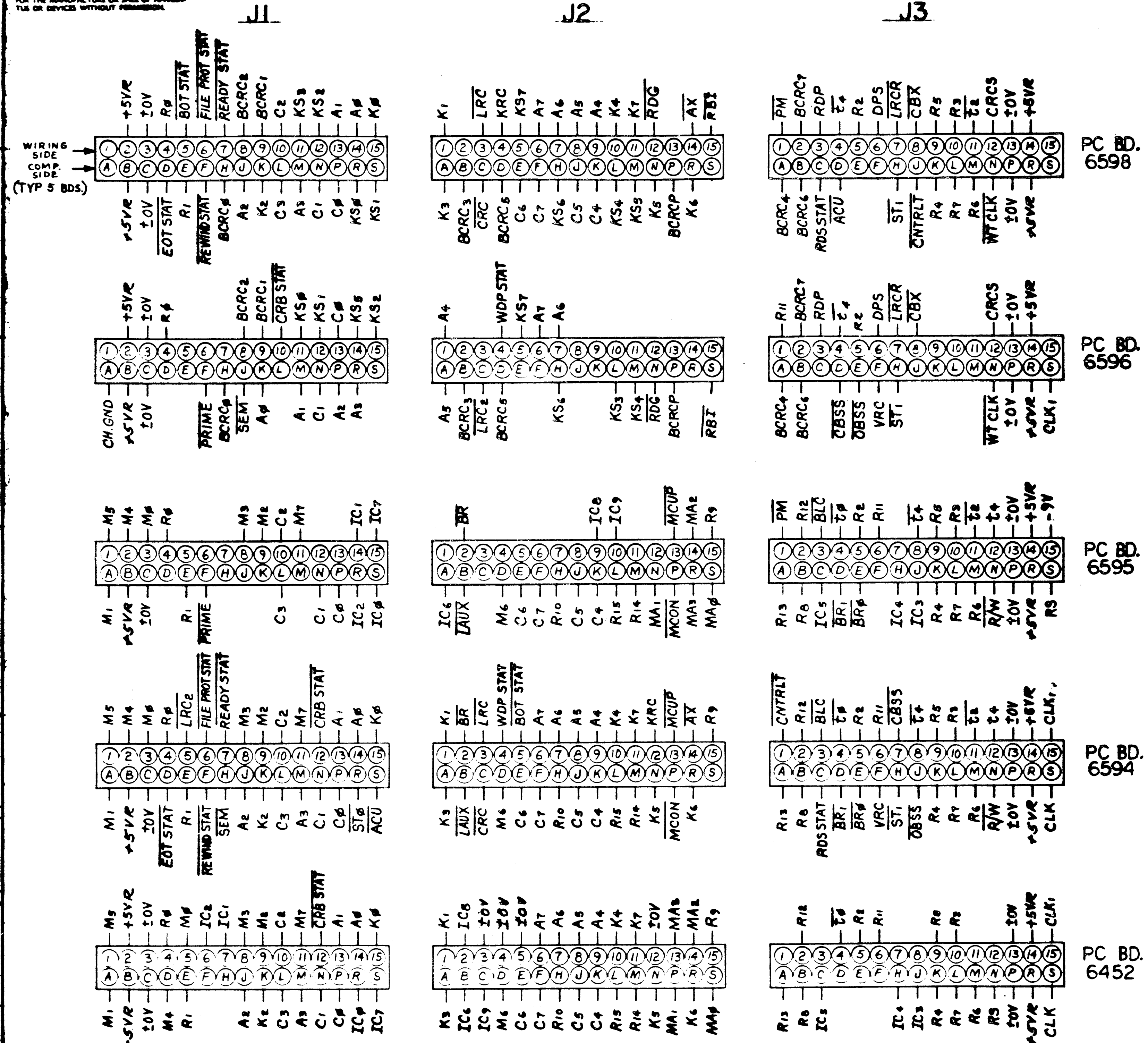
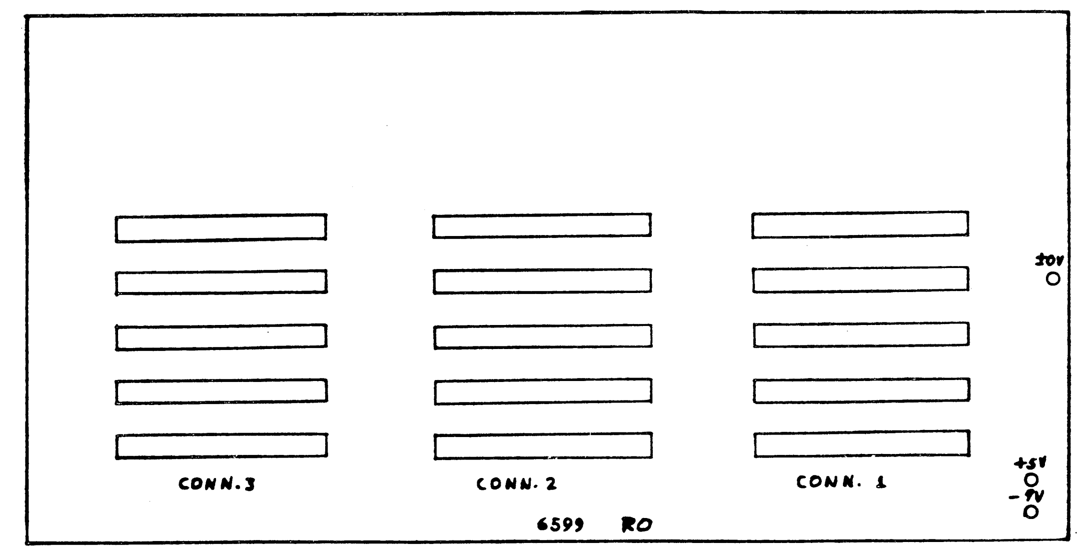


COMPONENT	W.L. PART NO.
30 PIN AMPHENOL CONN.	350-0011



COMPONENT LAYOUT

DWN	E ENGR
CHK	M ENGR
E C CONTROL	MFG ENGR

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

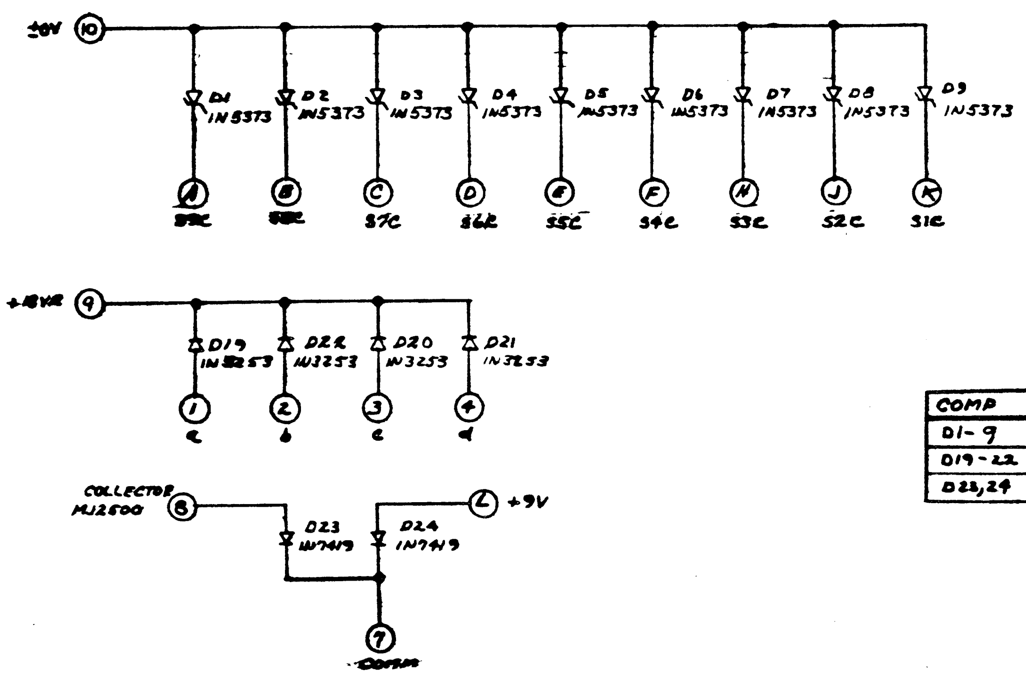
MODEL NO 2209

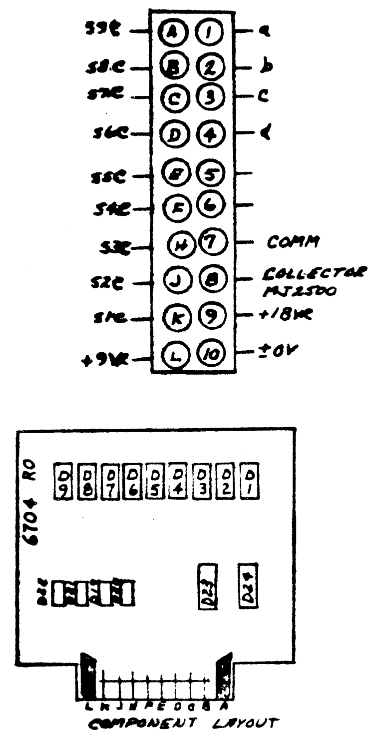
TITLE: MOTHER BOARD

210-6599 | D | 6599 | 0

WANG PART NUMBER | SIZE | DRAWING NUMBER | REV.

REVISION: REVISED PER DCR# 289; REVISED PER ...





COMP	W.L. NO
D1-9	380-2131
D19-22	380-3003
D23,24	380-3002

E-REV 1

HOLE LEGEND			
DRILLED OR PUNCHED HOLE TOLERANCES	HOLE DIA.	TOL.	
	.0135 to .125	[illegible]	
	.126 to .250	[illegible]	
	.251 to .500	[illegible]	
IDENT.	DESCRIPTION	QTY	
A			

REVISION
A — W.O. NO. #925 APP'D — 1-17-75
B — REV PER ECN-4908 APP'D — 6/26/75

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

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION

MODEL NO 2272

SEE ENGRG SPECIFICATIONS No.

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

TITLE SCHEMATIC LOGIBLOC FOR 6704 DIODE BOARD

210-6704 | C | 6704 | C

WANG PART NUMBER | SIZE | DRAWING NUMBER | REV

SCALE | SHT 4 OF 6

C 6704

MOUNTED EXTERNALLY

8 PLUG JONES STRIP

115 VAC DISK #2 · 115 VAC DISK #3 · 115 VAC DISK #1

SWITCH 115/230 · 4A · 115/220 VAC

MMC 5121

J2 10 PIN CONNECTOR

LOOSE DISCONNECT

MOUNTED ON HEAT SINK

12 PIN CONN.

10 MHZ XTAL

2200 CONN. P1 J1

2200 CONN. P1 J1

14 PIN SOCKET

CH. GND.

±0V · +12V · -12V · +5V · -5V

HOLE LEGEND	HOLE DIA.	TOL.
DRILLED OR	.0135 to .125	± .002
PUNCHED HOLE	.126 to .250	± .003
TOLERANCES:	.251 to .500	± .004

IDENT.	DESCRIPTION	QTY.
A		

REVISION	REVISED PER ECN # 5062 APP'D	REVISED PER ECN # 5062A APP'D	REVISED PER ECN # 5062B APP'D	REVISED PER ECN # 5062C APP'D	REVISED PER ECN # 5062D APP'D	REVISED PER ECN # 5062E APP'D	REVISED PER ECN # 5062F APP'D	REVISED PER ECN # 5062G APP'D	REVISED PER ECN # 5062H APP'D	REVISED PER ECN # 5062J APP'D	REVISED PER ECN # 5062K APP'D
DATE	1-3-75	1-17-75	1-31-75	2-7-75	2-21-75	3-7-75	3-21-75	4-4-75	4-18-75	5-2-75	5-16-75
ENG.	KS	KS	KS	KS	KS	KS	KS	KS	KS	KS	KS
CHK.											
APP'D											
ECN #	0	1	2	3	4	5	6	7	8	9	10

WANG PART NO.	ITEM	QTY.	NAME
			LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.

MATERIAL	MODEL NO.	TITLE
SH 1 OF 3	WCS - FLOPPY	SCHEMATIC LOGIBLOC MOTHER BD. & POWER REGULATION

	BY	DATE	APPROVED BY	DATE
DWN.	A.S.	6-17-74	E. ENGR	
CHK.	C.B.	6-27-74	M. ENGR	
			E.C. CONTROL	
			MFG. ENGR.	

SEE ENGRG SPECIFICATIONS No.

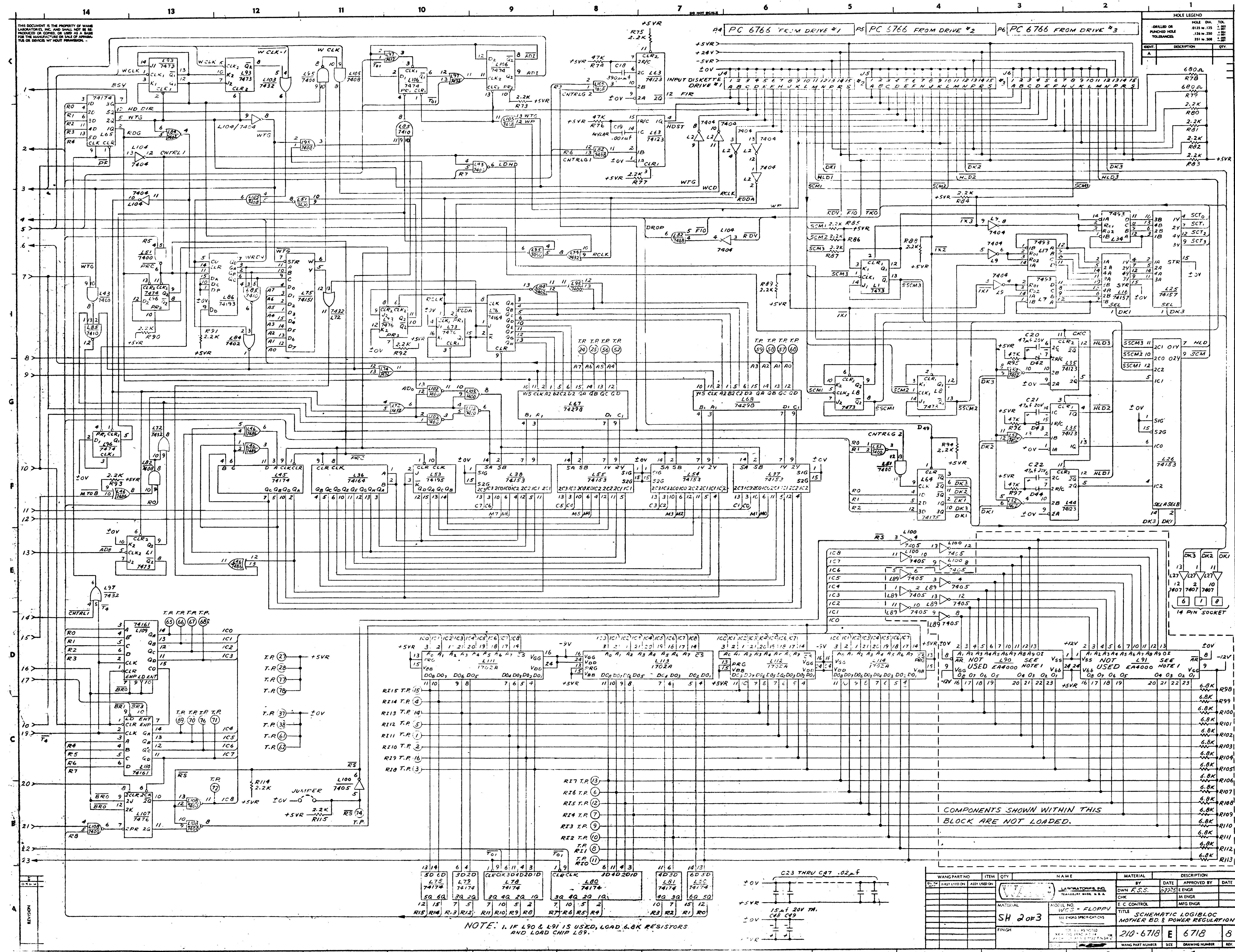
FINISH

TOL. ON XX = ±.010 FRAC ± 1/64 XXX = ±.005 ANG. ± 1/30 FINISH 125

SCALE

MATERIAL	DESCRIPTION
WANG PART NUMBER	210-6716
SIZE	E
DRAWING NUMBER	6718
REV.	

DO NOT SCALE



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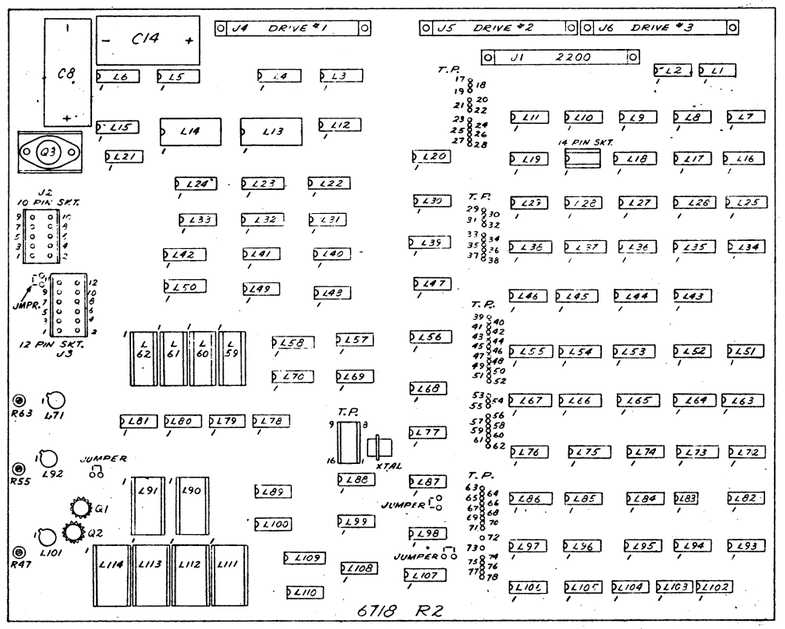
P4 PC 6766 FROM DRIVE #1
P5 PC 6766 FROM DRIVE #2
P6 PC 6766 FROM DRIVE #3
INPUT DISKETTE DRIVE #1
HOLE LEGEND
14 PIN SOCKET
COMPONENTS SHOWN WITHIN THIS BLOCK ARE NOT LOADED.
C23 THRU C47 .02µf
NOTE: 1. IF L90 & L91 IS USED, LOAD 6.8K RESISTORS AND LOAD CHIP L89.
WANG LABORATORIES, INC.
SH 2 OF 3
WCS - FLOPPY
DWN F.S.S.
SCHEMATIC LOGIBLOC MOTHER BD. & POWER REGULATION
210-6718
E
6718
B

DO NOT SCALE



HOLE LEGEND		
	HOLE DIA.	TOL
DRILLED OR PUNCHED HOLE TOLERANCES:	.0135 to .125	±.003 ±.001
	.126 to .250	±.004 ±.001
	.251 to .500	±.005 ±.001

IDENT.	DESCRIPTION	QTY.
A		

I.C. LOCATION	W.L. NO.	TERM #OV	TERM #5VR
L1, 8, 93	376-0005	11	4
L2, 9, 10, 11, 20, 31, 87, 104	376-0010	7	14
L3, 6, 66, 67	376-0138	8	16
L4, 5, 12, 15, 26, 37, 38, 54, 55	376-0048	8	16
L7, 17, 34	376-0011	10	5
L13, 14	376-0099	12	24
L16, 22, 23, 24, 25	376-0082	8	16
L18, 45, 65, 78, 79, 80, 81	376-0098	8	16
L19, 27	376-0056	7	14
L21	376-0025	7	14
L28, 29	376-0028	7	14
L30, 43, 51, 68, 95, 102, 108	376-0002	7	14
L32, 39	376-0096	9	18
L33	376-0012	7	14
L35, 44, 63	376-0060	8	16
L36, 76, 88	376-0102	7	14
L40, 57, 82, 98, 105	376-0081	7	14
L41, 69, 72, 74, 97, 99, 103	376-0093	7	14
L42, 50	376-0049	8	16
L46	376-0036	7	14
L47, 52, 84	376-0016	7	14
L48, 85	376-0003	7	14
L53	376-0057	8	16
L56, 73, 107	376-0007	13	5
L58, 70, 86	376-0053	8	16
L59, 60, 61, 62	377-0308	8	32
L64	376-0119	8	16
L71, 92, 101	376-0066		
L75	376-0047	8	16
L77	376-0073	10	5
L83	376-0126	1	8
L89, 100	376-0029	7	14
L90, 91			24
L96, 106	376-0006	7	14
L109, 110	376-0094	8	16
L111	378-0452R1		12
L112	378-0454R1		12
L113	378-0453R1		12
L114	378-0455R1		12
L94	376-0180	7	14

COMPONENT	W.L. NO.
R1, 5-19, 22, 24-34, 36, 57, 59, 64-67, 72, 73, 75, 77, 90-93, 114, 115, 120	330-3022
R2, 37, 38	330-4027
R3	330-2012
R4	330-6016
R20	330-5010
R23, 35	330-2047
R39-44, 50, 51	331-0010
R45	331-3018
R46	330-3056
R47, 55, 63	336-1001
R48, 49, 52, 53, 60	330-3047
R54	330-2056
R56	330-3015
R58	330-3027
R61	330-2027
R62, 69	330-3018
R68	330-2068
R70, 71	330-2022
R74, 76, 95-97	330-4047
R78, 79	330-2068
R98-113	330-3068
R116	330-2033
R117-119	330-3082
C1, 2, 48, 49	300-4022
C3, 19	300-2010
C4, 7	300-1907
C5, 11	300-1903
C6	300-2068
C8	300-3055
C20-22	300-4034
C10	300-1900
C12, 13, 16, C23-47	300-1904
C14	300-3054
C15	300-1100
C17	300-1010
C18	300-1390
C9	300-4021
XTAL	321-0008
D1-31, 42-44, 46, 47	380-1001
D32	380-2100
D33, 34	380-3004
D35, 36, 39, 40	380-4000
D37	380-2051
D38	380-2121
D41	380-2062
D45	380-2033
Q1	375-1024
Q2	375-1027
Q3	375-1031
TRANSIPAD (LG)	375-9001
HEATSINK (BIRTCHER)	375-9010
D48	380-2120
D49	388-1004
D50	380-0000
Q4	375-1006

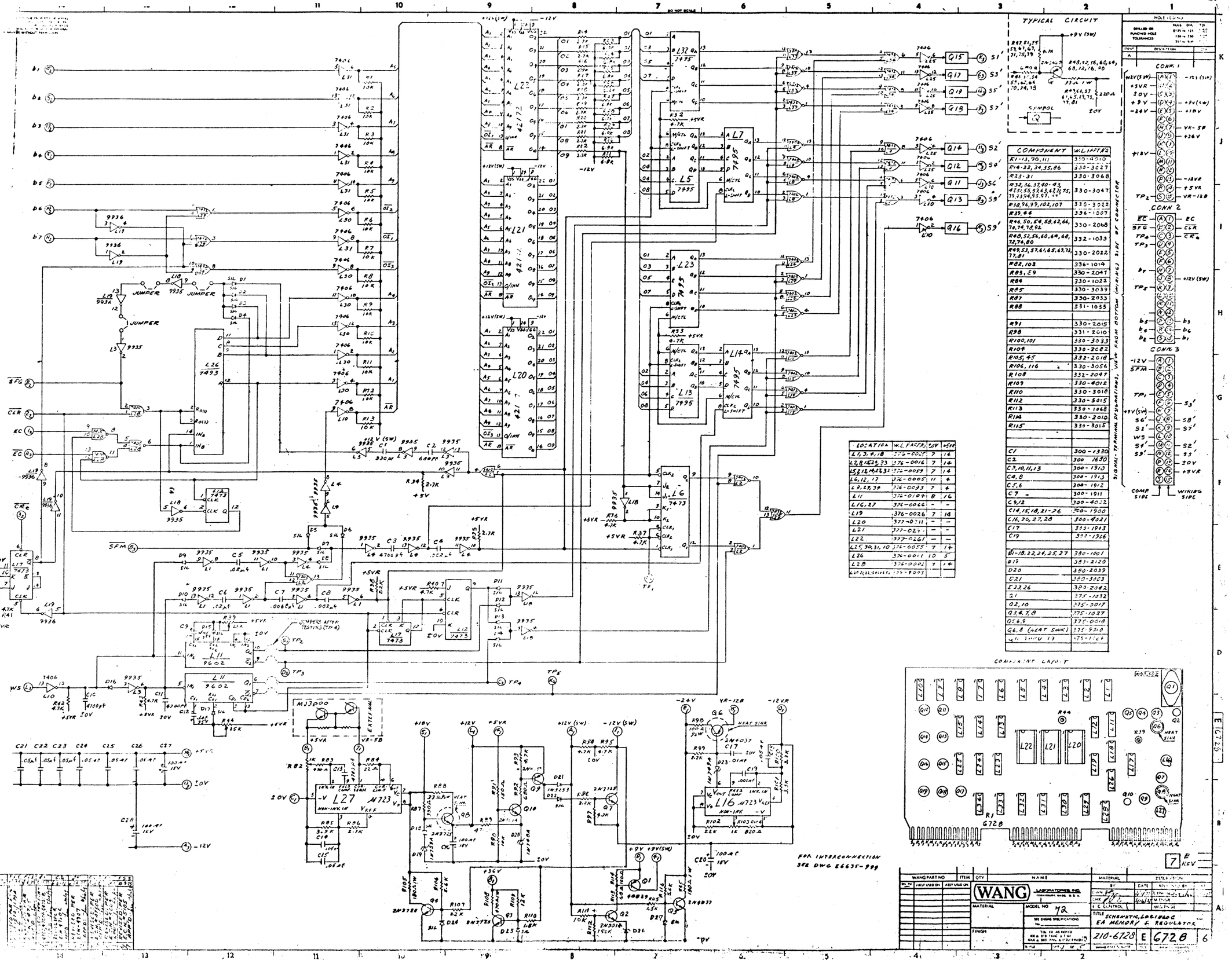
COMPONENT	W.L.NO.
J1, 4-6	350-0011
J2	654-1188
J3	654-1172
T.P. SKT. LOW PROFILE	654-1157
16 PIN I.C. SOCKET	376-9002
24 PIN I.C. SOCKET	376-9003
I.C. PAD 16 PIN	376-9008
22 PIN I.C. SOCKET	376-9010
14 PIN I.C. SOCKET	376-9012

IC	LOCATION SHEET 1	LOCATION SHEET 2
L1		E13, H5
L2		J7, J6
L3	H8	
L4	I7	
L5	J7	
L6	I8	
L7		H3
L8		G5, G4
L9	I11, I10	I3
L10	H11	
L11	I11, G11	
L12	H7	
L13	I4	
L14	J4	
L15	I7	
L16		H2
L17		I3
L18	I10	
L19	K8, K4	
L20	F6, G5, G3, F5, D4	
L21	G5, F5	
L22	H5	
L23	J5	
L24	I5	
L25		H1
L26		F2
L27		E1
L28	K7	
L29	K6	H14
L30	I8, F9, E8, A9	
L31	G7, F8, D9, E7, E2	
L32	F8, D8	
L33	D3, E2	
L34		I2
L35		G3, F3
L36		F11
L37		F6
L38		F5
L39	G10, F6	
L40	F8, D5, D2	
L41	F7, A9	
L42	E6	
L43	I10	J5
L44	K8	F3
L45		F12
L46		F14, F12, E12
L47	F9, E9, A9, C7	
L48	D10, E8, A8	
L49	A10, F9, D5	
L50	D6	
L51		I11, I13, F5
L52	D4	G3, F3
L53		F10
L54		F7
L55		F8
L56	C10, E2	
L57	A10	

IC	LOCATION SHEET 1	LOCATION SHEET 2
L58	B8	
L59	C3	
L60	C6	
L61	C2	
L62	C5	
L63		K7, J7
L64		F4
L65		J14
L66		G6
L67		G8
L68	C8, F2	
L69	B10, F8, D3	
L70	B8	
L71	C12	
L72		H11, G13, G10
L73		M10
L74		I8, G11
L75		H11
L76		H9
L77	D10	
L78		A10, A9
L79	B6	A10
L80		A8, B7
L81	B5	B7
L82	J10	F13, J8, I7
L83	I10	
L84	F11	J13, H12, H9
L85		H14, H12, J10
L86		H12
L87	B12, B11, A11	
L88	B11	
L89		E5
L90		D3
L91		D2
L92	D11	
L93		K13, K12
L94	J10, F13, F11	
L95		K11, J11, I9
L96		H13, F14
L97		E14, K10
L98	D11, F2	
L99	A10, D8	
L100		E4, B11
L101	E12	
L102		G10
L103	E2	K12
L104	G1	J13, J12, I6
L105		I12, K11, J9, J8
L106		K10, K9
L107	D8	E14
L108	G1	E14, E13
L109		D13
L110		C13
L111		D9
L112		D6
L113		D7
L114		D5

REVISION			

WANG PART NO.	ITEM	QTY.	NAME	MATERIAL	DESCRIPTION
FIRST USED ON	ASSY USED ON		WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.	BY	DATE / APPROVED BY / DATE
				DWN F.S.S. 3/26/76	E ENGR
				CHK	M ENGR
			MODEL NO. SMART FLOPPY	E.C. CONTROL	MFG ENGR
			SEE ENGRG SPECIFICATIONS No.	MATERIAL SH 3 OF 3	TITLE MOTHER BOARD & PARTS LIST
			TOL. EX. AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH 125	FINISH	
			SCALE	210-6718	E / 6718 / 8
				WANG PART NUMBER	SIZE / DRAWING NUMBER / REV.



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

FOR INTERCONNECTION SEE DWG E6635-999

COMPONENT	W.L. PART No
R1-13, 90, 111	330-4010
R14-22, 34, 35, 86	330-3027
R23-31	330-3068
R32, 36, 37, 40-43, 47, 51, 55, 59, 63, 67, 71, 75, 79, 93, 94, 95, 97, 49	330-3047
R38, 96, 99, 102, 107	330-3022
R39, 44	336-1007
R46, 50, 54, 58, 62, 66, 70, 74, 78, 92	330-2068
R48, 52, 56, 60, 64, 68, 72, 76, 80	332-1033
R49, 53, 57, 61, 65, 69, 73, 77, 81	330-2022
R82, 103	336-1014
R83, 89	330-2047
R84	330-1022
R85	330-3039
R87	330-2033
R88	331-1033
R91	330-2015
R98	331-2010
R100, 101	330-3033
R104	330-2082
R105, 45	332-2018
R106, 116	330-3056
R108	332-2047
R109	330-4012
R110	330-3018
R112	330-5015
R113	330-1068
R114	330-2010
R115	330-3015
C1	300-1330
C2	300 1630
C3, 10, 11, 13	300-1910
C4, 8	300-1913
C5, 6	300-1912
C7	300-1911
C9, 12	300-4032
C14, 15, 18, 21-26	300-1900
C16, 20, 27, 28	300-4021
C17	300-1903
C19	300-1906
D1-18, 22, 24, 25, 27	380-1001
D19	380-2120
D20	350-2039
D21	380-3003
D23, 26	380-2042
Q1	375-1032
Q2, 10	375-2017
Q3, 4, 7, 8	375-1027
Q5, 6, 9	375-0018
Q6, 8 (HEAT SINK)	375-9010
Q11 THRU 19	375-1006

LOCATION	W.L. PART No	0V	+5VR
L1, 3, 4, 18	376-0025	7	14
L2, 8, 15, 24, 33	376-0016	7	14
L5, 7, 13, 14, 23, 32	376-0059	7	14
L6, 12, 17	376-0005	11	4
L9, 29, 34	376-0093	7	4
L11	376-0104	8	16
L16, 27	376-0066	-	-
L19	376-0026	7	14
L20	377-0311	-	-
L21	377-02[illegible]	-	-
L22	377-0261	-	-
L25, 30, 31, 10	376-0055	7	14
L26	376-0011	10	5
L28	376-0002	7	14
L20, 21, 22, SOCKET	376-9003		

7 E REV

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION

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

MATERIAL

MODEL NO 72

SEE ENGNG SPECIFICATIONS No

FINISH

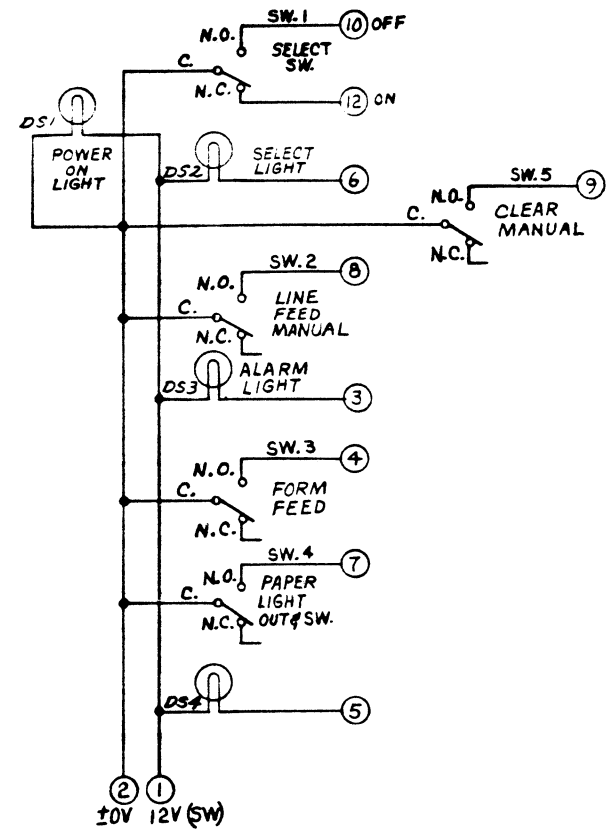
TOL EX AS NOTED
XX ± 010 FRAC ± 1/64
XXX ± 005 ANG ± 1°30' FINISH

	BY	DATE	APPROVED BY
DWN			ENGINEER
CHK			M ENGR
E C CONTROL			MFG ENGR

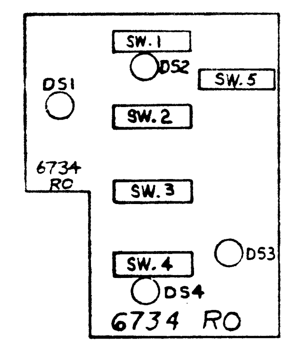
TITLE SCHEMATIC, LOGIBLOC EA MEMORY & REGULATOR

210-6728 E 6728 6

SCALE SHT 1 OF 1



COMPONENT	W.L. PART NO.
SW.1 - SW.5	325-2305
DS1 - DS4	370-0015



COMPONENT LAYOUT

E REV 0

REVISION: ORIG PER W.O. 404 APP'D; REL. TO PROD. APP'D 5/16/75

WANG LABORATORIES, INC.

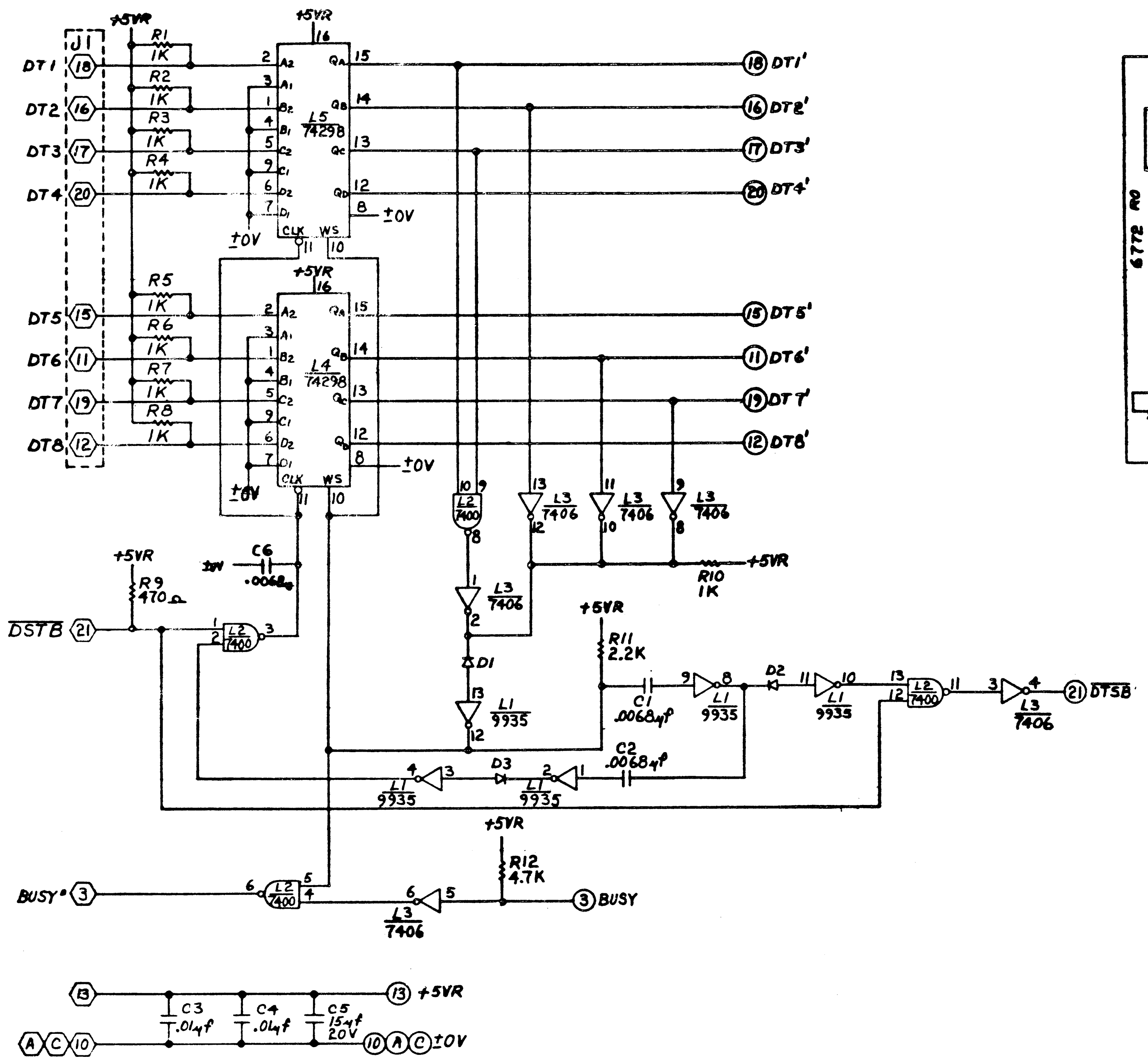
DWN 5-13-75 CHK 5/16/75

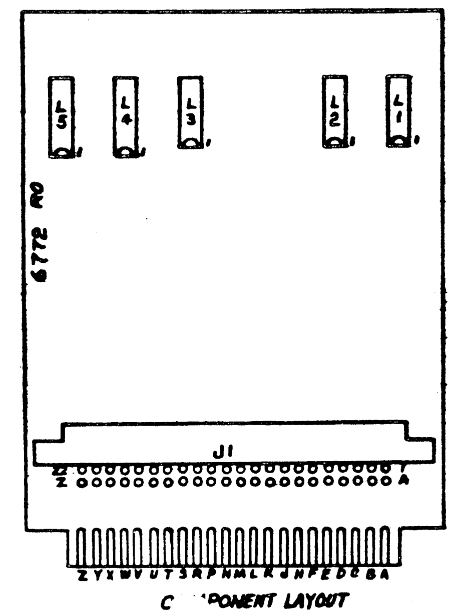
TITLE: SCHEMATIC LOGIBLOC MATRIX PRINTER

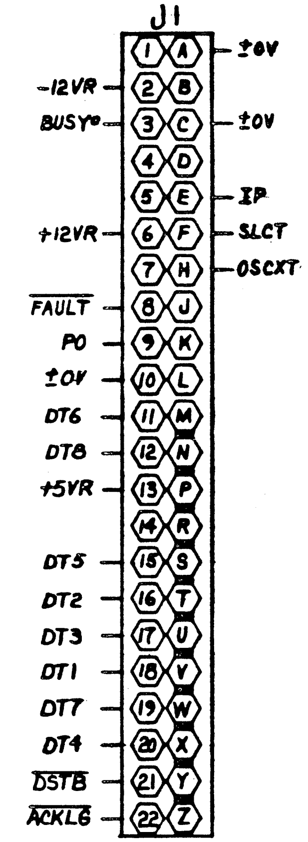
WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
210-6734	C	6734	0

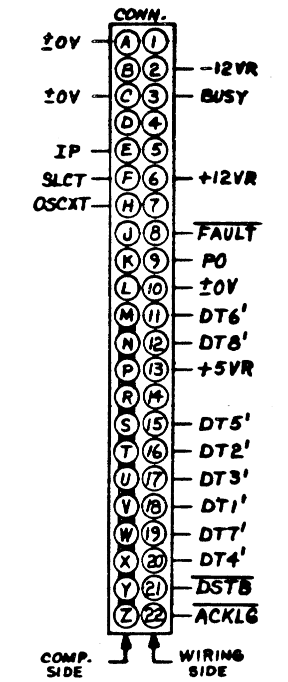
C 6734

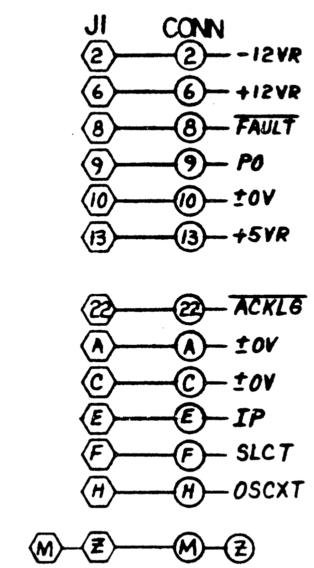
DO NOT SCALE











LOCATION	W.L. PART NO.	TERM. NO. ±0V	TERM. NO. Vcc+5VR
L1	376-0025	7	14
L2	376-0002	7	14
L3	376-0055	7	14
L4,5	376-0138	8	16

COMPONENT	W. L. PART NO.
R1-8,10	330-3010
R9	330-2047
R11	330-3022
R12	330-3047
D1-3	380-1001
C1,2	300-1911
C3,4	300-1903
C5	300-4022
C6	300-1911
J1	350-0022

E-REV 0

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

MODEL NO 2221-W

DWN 7-25-75 · CHK G.D. 7/31/75

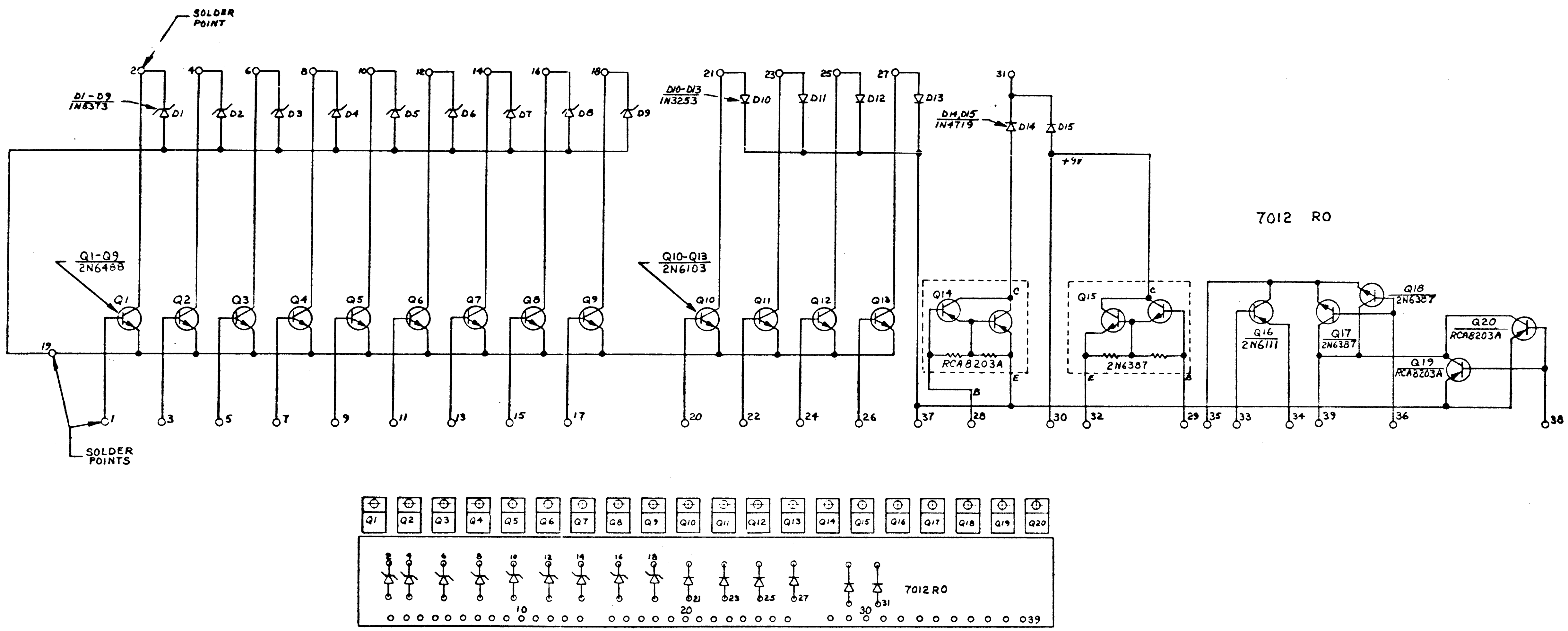
TITLE SCHEMATIC LOGIBLOC QUICK RELEASE

210-6772 | D | 6772 | 1

SCALE — SHT 4 OF 5

HOLE LEGEND	HOLE DIA	TOL
DRILLED OR PUNCHED HOLE TOLERANCES	.0135 to .125	
	.126 to .250	
	.251 to .500	

IDENT	DESCRIPTION	QTY
A		



7012 R0

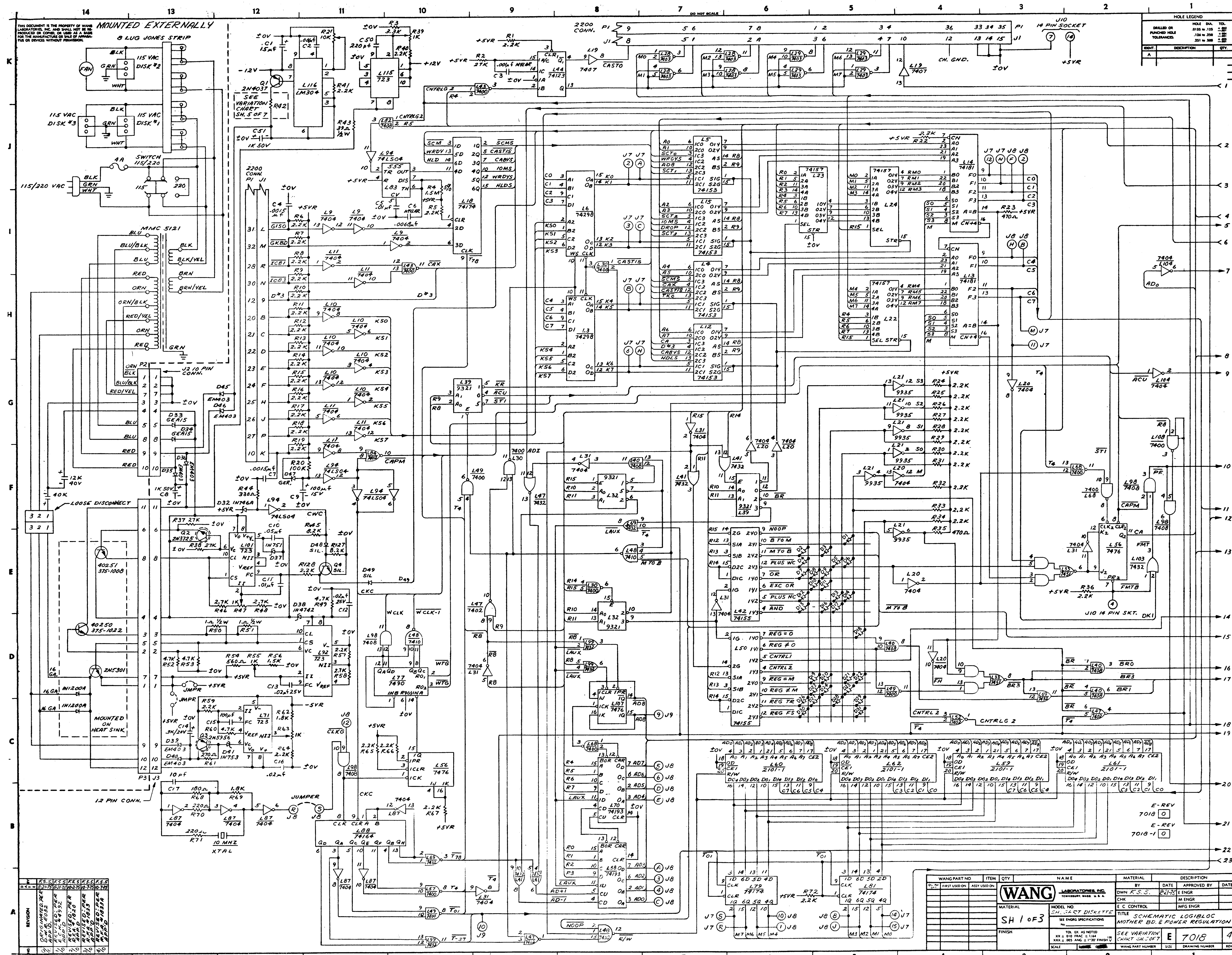
COMPONENT	W.L. PART NO.
Q1-Q9	375-1054
Q10-Q13	375-1035
Q14, 19, 20	375-1053
Q15, 17, 18	375-1052
Q16	375-1034
D1-D9	380-2131
D10-D13	380-3003
D14, 15	380-30028

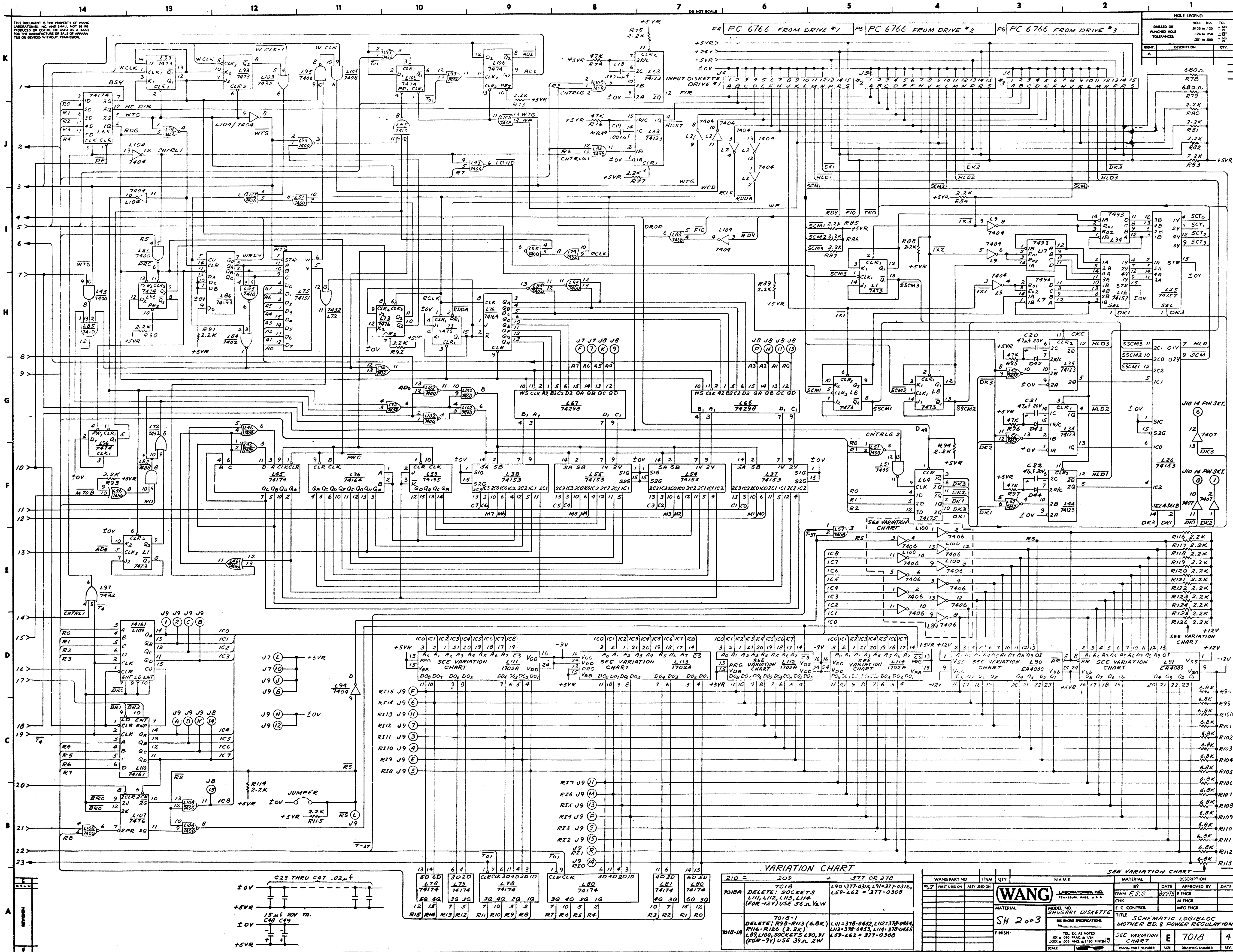
E-REV 0

REVISION: ORIG. PER DWR E-948

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

DWN	BK
CHK	G.D.
MODEL NO	72
TITLE	SCHEMATIC [illegible] POWER TRANSISTOR BOARD
TOL. EX. AS NOTED	XX ± .010 FRAC. ± 1/64; XXX ± .005 ANG. ± 1°30' FINISH 125
SHT	4 OF 5
WANG PART NUMBER	210-7012
SIZE	D
DRAWING NUMBER	7012


MOUNTED EXTERNALLY
8 LUG JONES STRIP
115/220 VAC
MMC 5121
LOOSE DISCONNECT
MOUNTED ON HEAT SINK
12 PIN CONN.
2200 CONN.
J10 14 PIN SOCKET
HOLE LEGEND
WANG LABORATORIES, INC.
DWN F.S.S.
SH 1 OF 3
SCHEMATIC LOGIBLOC MOTHER BD. & POWER REGULATION
SEE VARIATION CHART SH. 5 OF 7
E 7018 4
E-REV 7018
E-REV 7018-1

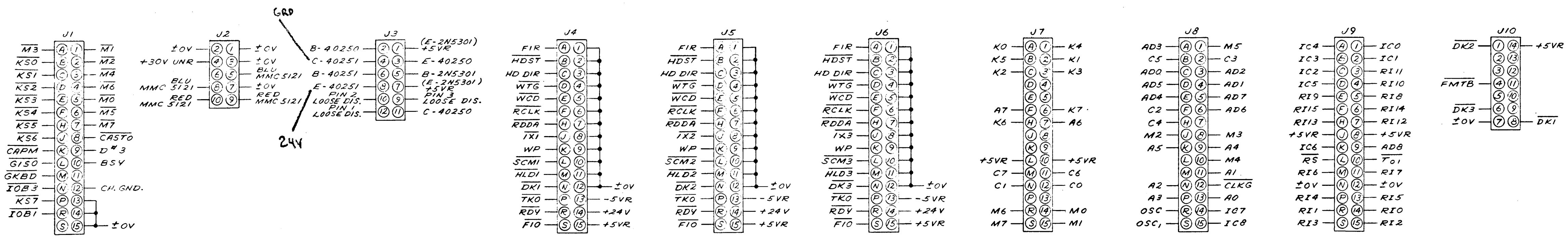


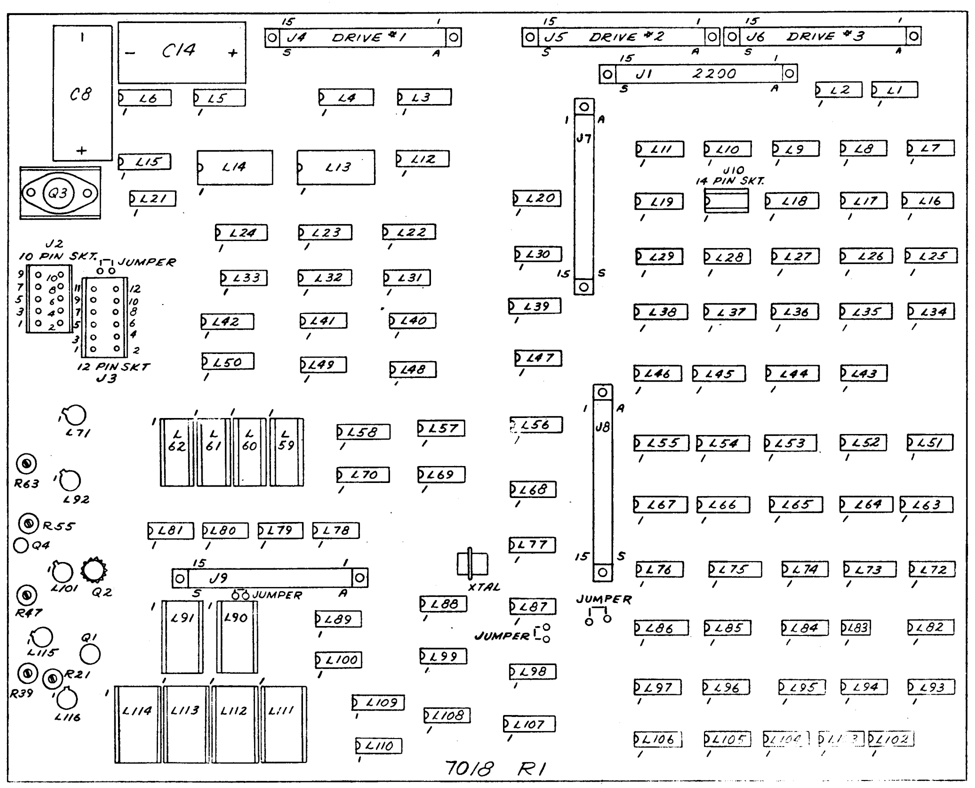
THIS DOCUMENT IS THE PROPERTY OF WANG LABORATORIES INC. AND SHALL NOT BE REPRODUCED OR COPIED, OR USED AS A BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION.
HOLE LEGEND
P4 PC 6766 FROM DRIVE #1
P5 PC 6766 FROM DRIVE #2
P6 PC 6766 FROM DRIVE #3
INPUT DISKETTE DRIVE #1
VARIATION CHART
210 = 209 + 377 OR 378
7018A 7018 DELETE: SOCKETS L111, L112, L113, L114 (FOR -12V) USE 56 Ω 1/2 W
L90=377-0315, L91=377-0316, L59-L62 = 377-0308
7018-1A 7018-1 DELETE: R98-R113 (6.8K) R116-R126 (2.2K) L89, L100, SOCKETS L90, 91 (FOR -9V) USE 39 Ω 2W
L111=378-0452, L112=378-0454, L113=378-0453, L114=378-0455, L59-L62 = 377-0308
C23 THRU C47 .02μf
15μf 20V TA. C48 C49
SEE VARIATION CHART
WANG LABORATORIES, INC.
MODEL NO. SHUGART DISKETTE
SH 2 OF 3
TITLE SCHEMATIC LOGIBLOC MOTHER BD. & POWER REGULATION SEE VARIATION CHART
E 7018 4
DWN F.S.S.

HOLE LEGEND

DRILLED OR PUNCHED HOLE TOLERANCES: HOLE DIA. .0135 to .125 / .126 to .250 / .251 to .500

IDENT.	DESCRIPTION	QTY
A		





I.C. LOCATION	W.L. NO.	TERM ±OV	TERM +5VR
L1,8,93	376-0005	11	4
L2,9,10,11,20,31,87,104	376-0010	7	14
L3,6,66,67	376-0138	8	16
L4,5,12,15,26,37,38,54,55	376-0048	8	16
L7,17,34	376-0011	10	5
L13,14	376-0099	12	24
L16,22,23,24,25	376-0082	8	16
L18,45,65,78,79,80,81	376-0098	8	16
L19,27	376-0056	7	14
L21	376-0025	7	14
L28,29	376-0028	7	14
L30,43,49,51,68,95,102,108	376-0002	7	14
L32,39	376-0096	8	16
L33	376-0012	7	14
L35,44,63	376-0080	8	16
L36,76,88	376-0102	7	14
L40,57,82,98,105	376-0081	7	14
L41,69,72,74,97,99,103	376-0093	7	14
L42,50	376-0049	8	16
L46	376-0036	7	14
L47,52,84	376-0016	7	14
L48,85	376-0003	7	14
L53	376-0097	8	16
L56,73,107	376-0007	13	5
L58,70,86	376-0053	8	16
L59,60,61,62	377-0308	8	22
L64	376-C119	8	16
L71,92,101	376-0066		
L75	376-0047	8	16
L77	376-0073	10	5
L83	376-0126	1	8
L89,100	376-0055	7	14
L90,91			24
L96,106	376-0006	7	14
L109,110	376-0094	8	16
L111	378-0452R1		12
L112	378-0454R1		12
L113	378-0453R1		12
L114	378-0455R1		12
L94	376-0180	7	14

COMPONENT	W.L. NO.
R40,41,128 R1, 5-19, 22, 24-34, 36, 57, 59 64-67, 72, 73, 75, 77, 80-94, 114-126	330-3022
R2,37,38	330-4027
R3	330-3033
R4	330-6016
R20	330-5010
R21	336-1010
R23,35	330-2047
R43	331-1039
R45,127	330-3082
R50,51	331-0010
R39,47,55,63	336-1001
R49,52,53,60	330-3047
R54	330-2056
R56	330-3015
R46,48,58	330-3027
R61	330-2027
R62,69	330-3018
R68	330-2018
R70,71	330-2022
R74,76,95-97	330-4047
R78,79	330-2068
R98-113	330-3068
R44	330-2033
C1,48,49	300-4022
C3,19	300-2010
C4,7	300-1907
C5,11	300-1903
C6	300-2068
C8,51	300-3055
C2	300-1906
C10	300-1900
C12,13,16,C23-47	300-1904
C14	300-3054
C15	300-1100
C17	300-1010
C18	300-1390
C9	300-3011
C50	300-1220
XTAL	321-0008
D1-31, 42-44	380-1001
D32	380-2100
D33,34	380-3004
D35,36,39,40	380-4000
D37	380-2051
D38	380-2121
D41	380-2062
D47	380-0000
D49	
Q1	375-0018
Q2	375-1027
Q3	375-1031
Q4	375-1006
TRANSIPAD (LG)	375-9001
HEATSINK (BIRTCHER)	375-9010
R42 SEE VARIATION CHART SH.5 OF 7	331-1056 (7018) 337-1039 (7018-1)

COMPONENT	W.L.NO.
J1,4-9	350-0011
J2	654-1188
J3	654-1172
T.P. SKT. LOW PROFILE	654-1157
16 PIN I.C. SOCKET	376-9002
24 PIN I.C. SOCKET	376-9003
I.C. PAD 16 PIN	376-9008
22 PIN I.C. SOCKET	376-9010
14 PIN I.C. SOCKET	376-9012

IC	LOCATION SHEET 1	LOCATION SHEET 2
L1		E13, H5
L2		J7, J6
L3	H8	
L4	I7	
L5	J7	
L6	I8	
L7		H3
L8		G5, G4
L9	I11, I10	I3, H3
L10	H11, G11	
L11	I11, G11	
L12	H7	
L13	H4	
L14	J4	
L15	I7	
L16		H2
L17		I3
L18	I10	
L19	K8, K4	
L20	F6, F4, E4, D4, G3	
L21	F5, G4, F4	
L22	H5	
L23	J5	
L24	I5	
L25		H1
L26		F1
L27		F1, G1
L28	K7, K6	
L29	K6, K5	
L30	F9, I8, E8	
L31	D9, A9, F8, E7, G7, E2	
L32	F8, D8	
L33	D3, E3	
L34		I2
L35		G12
L36		F11
L37		F6
L38		F9
L39	G10, F6	
L40	F8, D5, D2	
L41	A9, F7, F6	
L42	E6	
L43	I10, K9	H14, J9
L44	K8	F2
L45		F12
L46		F14, G12, F12, E12
L47	F9, E9, A9, C2	
L48	D10, E8, A8	
L49	A10, F9, D5	
L50	D6	
L51		I13, I11, F5
L52	C4	G13, F3
L53		F10
L54		F7
L55		F8
L56	C10, E2	
L57	A10	E5
L58	A8	
L59	C3	
L60	C6	
L61	C2	
L62	C5	
L63		K7, J7
L64		F4
L65		J14
L66		G6
L67		G8
L68	C8, F2	
L69	B10, F8, D3	
L70	B8	
L71	C12	
L72		G13, H11, G10
L73		H10
L74		G11, I8
L75		H11
L76		H9
L77	D10	
L78		A9, A10
L79	A6	A10
L80		A8, A7
L81	A5	A7
L82	J10	F13, J8, I2
L83	J10	
L84	F11	J13, H12, H9
L85		H14, H12, J10
L86		H12
L87	B13, B12, A11, B10	
L88	B11	
L89		D4, E4
L90		D3
L91		D1
L92	D11	
L93		K13, K12
L94	F12, F11, F10, J11	D11
L95		K11, J11, I9, H8
L96		H13, F14
L97		K10, E14
L98	C11, D11, F1, F2	
L99	A10, D8	
L100		E4
L101	E12	
L102		G10
L103	E2	K12
L104	G1, I1	J13, J12, I13, I6
L105		K11, I12, J9, K8
L106		K10, K9
L107	C8	B13
L108	G1	B14, B13
L109		D13
L110		C13
L111		D9
L112		D6
L113		D7
L114		D4
L115	K10	
L116	K11	

REVISION

WANG PART NO.	ITEM	QTY.	NAME	MATERIAL	DESCRIPTION

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

BY	DATE	APPROVED BY	DATE
DWN F.S.S.	3-25-75	E ENGR	
CHK		M ENGR	
E. C. CONTROL		MFG ENGR	

MATERIAL: SH 3 OF 3

MODEL NO.: SHUGART FLOPPY

SEE ENGRG SPECIFICATIONS No.

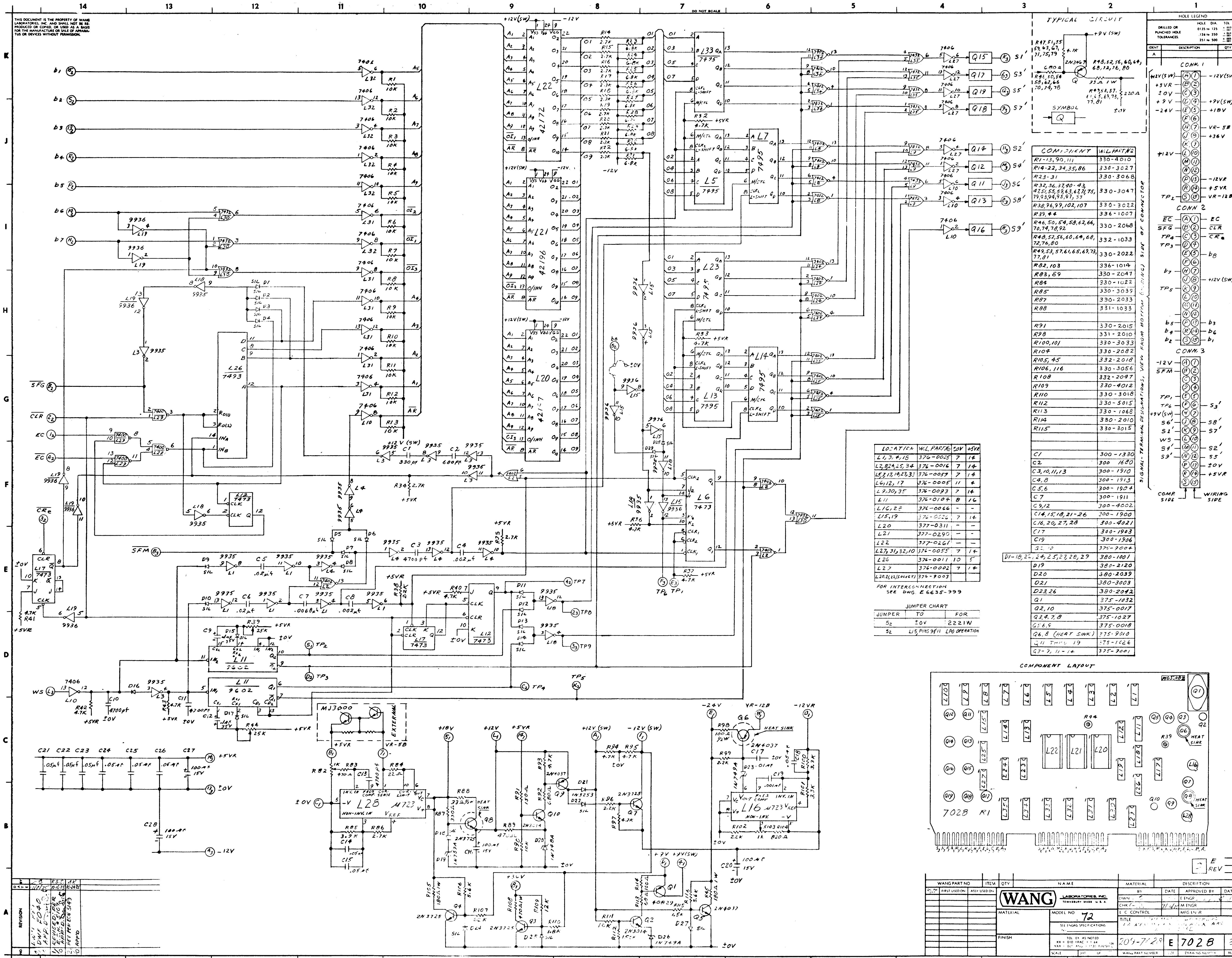
FINISH

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

SCALE

TITLE: MOTHER BOARD & PARTS LIST

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.
210-7018	E	7018	4



COMPONENT	W.L. PART No
R1-13, 90, 111	330-4010
R14-22, 34, 35, 86	330-3027
R23-31	330-3068
R32, 36, 37, 40-43, 47, 51, 55, 59, 63, 67, 71, 75, 79, 93, 94, 95, 97, 33	330-3047
R38, 96, 99, 102, 107	330-3022
R39, 44	336-1007
R46, 50, 54, 58, 62, 66, 70, 74, 78, 92	330-2068
R48, 52, 56, 60, 64, 68, 72, 76, 80	332-1033
R49, 53, 57, 61, 65, 69, 73, 77, 81	330-2022
R82, 103	336-1014
R83, 89	330-2047
R84	330-1022
R85	330-3039
R87	330-2033
R88	331-1033
R91	330-2015
R98	331-2010
R100, 101	330-3033
R104	330-2082
R105, 45	332-2018
R106, 116	330-3056
R108	332-2097
R109	330-4012
R110	330-3018
R112	330-5015
R113	330-1068
R114	330-2010
R115	330-3015
C1	300-1330
C2	300 1680
C3, 10, 11, 13	300-1910
C4, 8	300-1913
C5, 6	300-1904
C7	300-1911
C9, 12	300-4002
C14, 15, 18, 21-26	300-1900
C16, 20, 27, 28	300-4021
C17	300-1903
C19	300-1906
G2, 10	375-9004
D1-18, 22, 24, 25, 27, 28, 29	380-1001
D19	380-2120
D20	380-2039
D21	380-3003
D23, 26	380-2042
Q1	375-1032
Q2, 10	375-0017
Q3, 4, 7, 8	375-1027
Q5, 6, 9	375-0018
Q6, 8 (HEAT SINK)	375-9010
Q11 THRU 19	375-1026
Q3-9, 11-14	375-9001

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

LOCATION	W.L. PART No	±0V	+5VR
L1, 3, 4, 18	376-0025	7	14
L2, 8, 24, 25, 34	376-0016	7	14
L5, 7, 13, 14, 23, 33	376-0059	7	14
L6, 12, 17	376-0005	11	4
L9, 30, 35	376-0093	7	14
L11	376-0104	8	16
L16, 28	376-0066	-	-
L15, 19	376-0026	7	14
L20	377-0311	-	-
L21	377-0290	-	-
L22	377-0261	-	-
L27, 31, 32, 10	376-0055	7	14
L26	376-0011	10	5
L29	376-0002	7	14
L20, 21, 22, (SOCKET)	376-9003		

FOR INTERCONNECTION SEE DWG. E6635-999

JUMPER CHART

JUMPER	TO	FOR
5_2	±0V	2221W
5_2	L15, PINS 9 & 11	LPO OPERATION

COMPONENT LAYOUT

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION

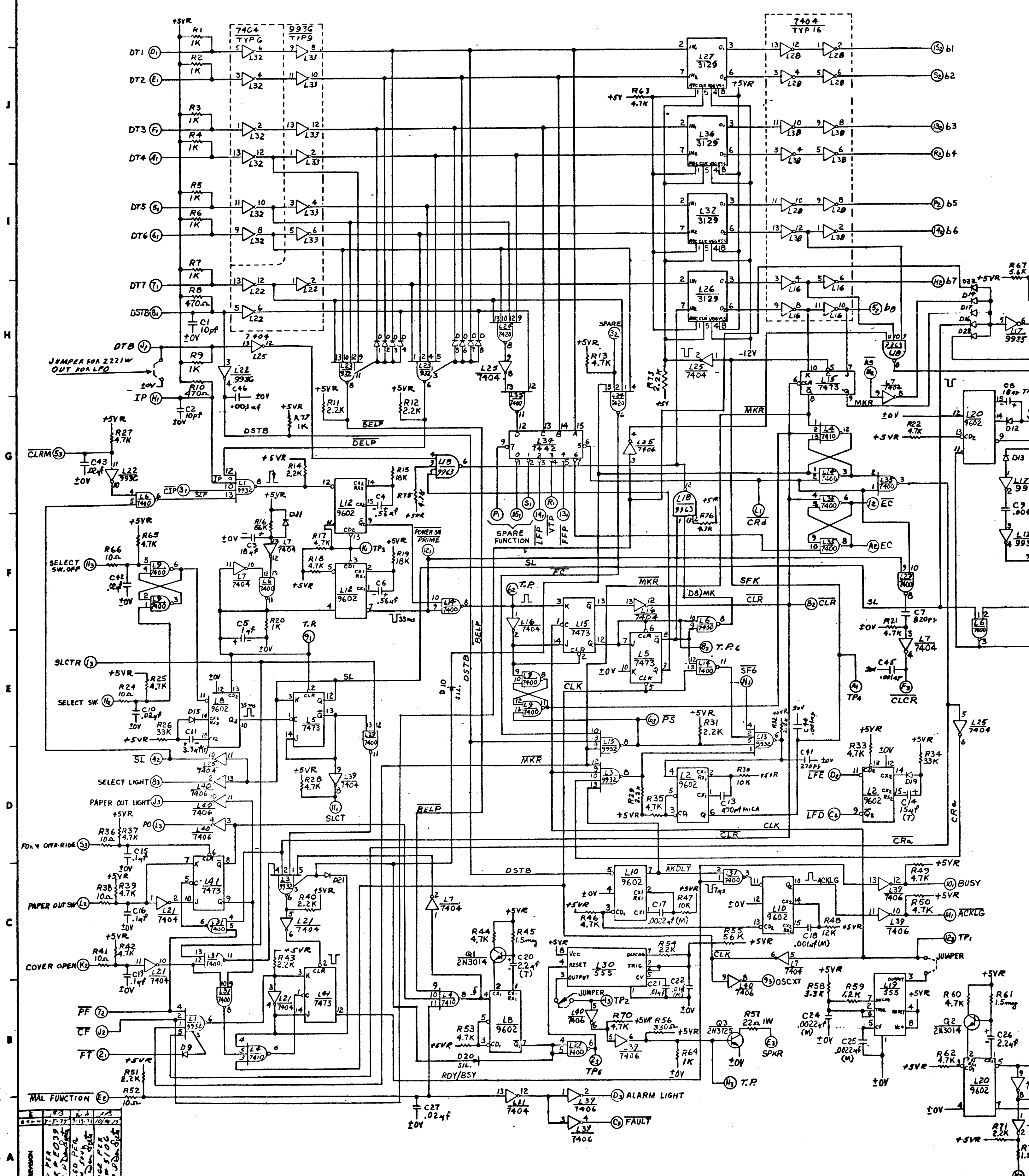
WANG LABORATORIES, INC. TEWKSBURY MASS. U.S.A.

MODEL NO 72

SEE ENGRG SPECIFICATIONS

TOL EX AS NOTED

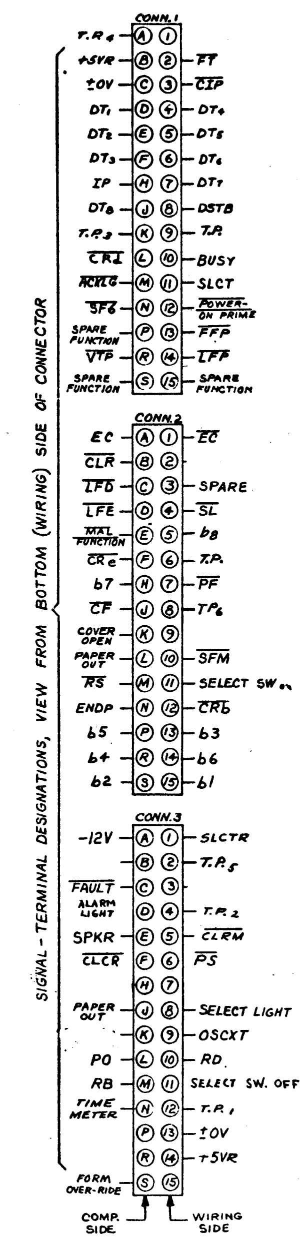
WANG PART NUMBER 209-7028 · SIZE E · DRAWING NUMBER 7028 · REV 2

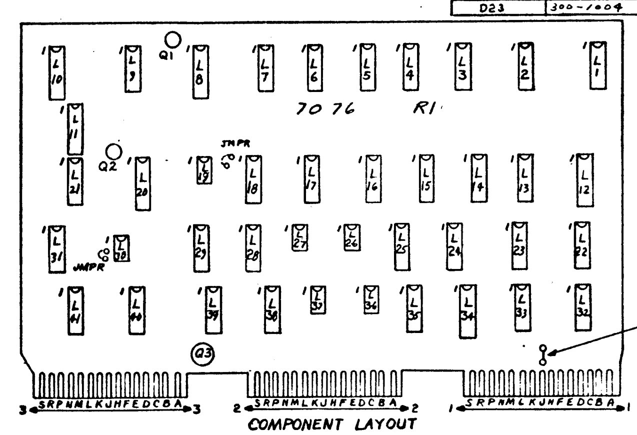


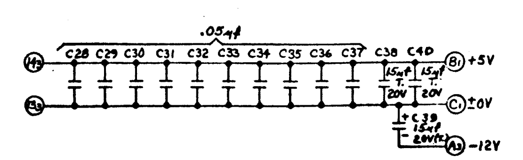
LOCATION	W.L. PART NO.	TERM. NO. ±0V	TERM NO. V_{cc} +5VR
L1,3,13,23	376-0046	7	14
L2,8,10,11,12,20	-0104	8	16
L4	-0003	7	14
L5,15,41	-0005	11	4
L6,9,14,29,31,35	-0002	7	14
L7,16,21,25, 28,32,38	-0010	7	14
L22,33	-0026	7	14
L18	-0033	7	14
L19,30	-0126	1	8
L24	-0004	7	14
L26,27,36,37	-0165	—	8
L34	-0008	8	16
L39,40	-0055	7	14
L17	376-0025	7	14

PARTS LIST

COMPONENT	W.L. PART NO.
R1-7,9,20,64,77	330-3010
R8,10	-2047
R11,12,14,29,71,73 31,32,40,43,51	-3022
R13,17,18,21,22,25, 28,33,35,37,39,42, 44,46,49,50,53,60, 62,65,27,68,70,63,74 (75,76)	-3047
R15,19,69	-4018
R16,55	-4056
R54	-4022
R24,36,38,41,52,66	-1010
R30,47	-4010
R26,34,23	-4033
R45,61,72	-6015
R48	-4012
R56	330 -2033
R57	332 -1022
R58	330 -3033
R59	330 -3012
C1,2	300-1010
C3,8	-4018
C4,6	-4010
C5,12	-4000
C10,27,42,43	-1904
C11	-4016
C9	-1910
C23	-1911
C13	-5005
C14,38,39,40	-4022
C15,16,19	-1901
C17,24,25	-2022
C18	-2010
C20,26	-4014
C21,22	-2110
C28-37	-1900
C7	300-1820
D1-22	380-1004
Q1,2	375-0017
Q3	375-1027
C41	300-1270
R67	330-3056
Q1,2	375-9004
Q3	375-3001
C44,45,46,47	300-1906
D23	300-1004







E REV 0

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION

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

MODEL NO 72

SEE ENGRG SPECIFICATIONS No.

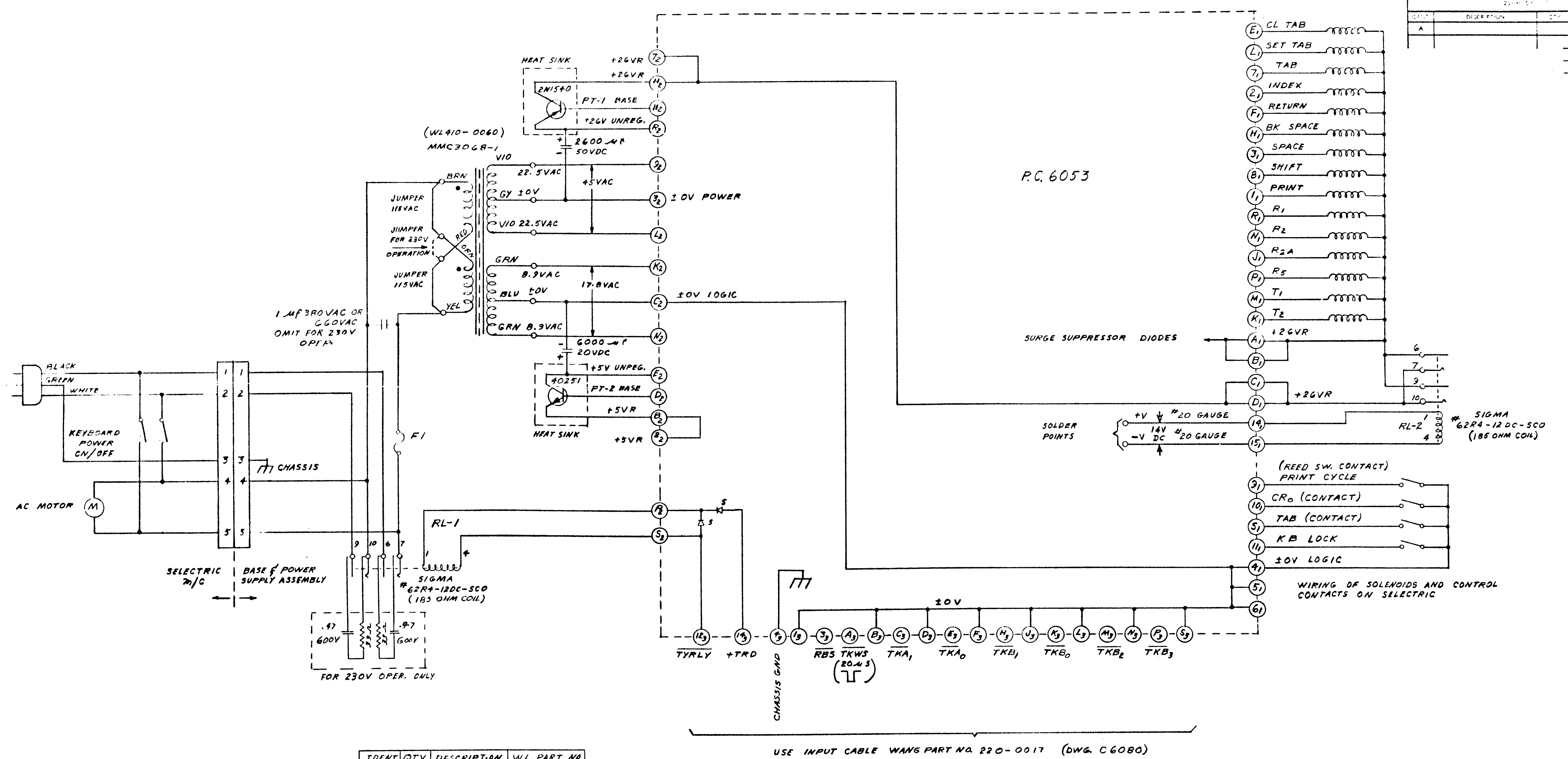
TOL. EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH

BY	DATE	APPROVED BY	DATE
DWN	9-5-73	E ENGR	
CHK	9-6-73	M ENGR	
E C CONTROL		MFG ENGR	

TITLE SCHEMATIC LOGIBLOC I/O CONTROL DATA STORAGE AND UNDERSCORE

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
210-7076	E	7076	2

SCALE SHT 4 OF 5



IDENT	QTY	DESCRIPTION	W.L. PART NO.
F1	1	115V 1A	360-1010
	1	230V .6A	360-1006

DO NOT SCALE

89

REVISION	1	2	3	4	5
DATE	6/25/70	8-17-70	3-4-70	3-10-72	8-10-72
	PER ECN #1600 CIR. BKR WAS 4A APP RJT	PER ECN #1654 ADDED CIRCUIT FOR 230 OPERATION APP. RJT	XSTR 40251 (PT8 IF) NOW CORRECTLY INDICATED AS AN NPN, PER ECN 1697 APP.	PER ECN #2806 WAS .47 AT 400V APP - SKH	PER ECN #3120 REMOVED 2A CIR. BREAKER. ADDED FUSE. APP'D SKH

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

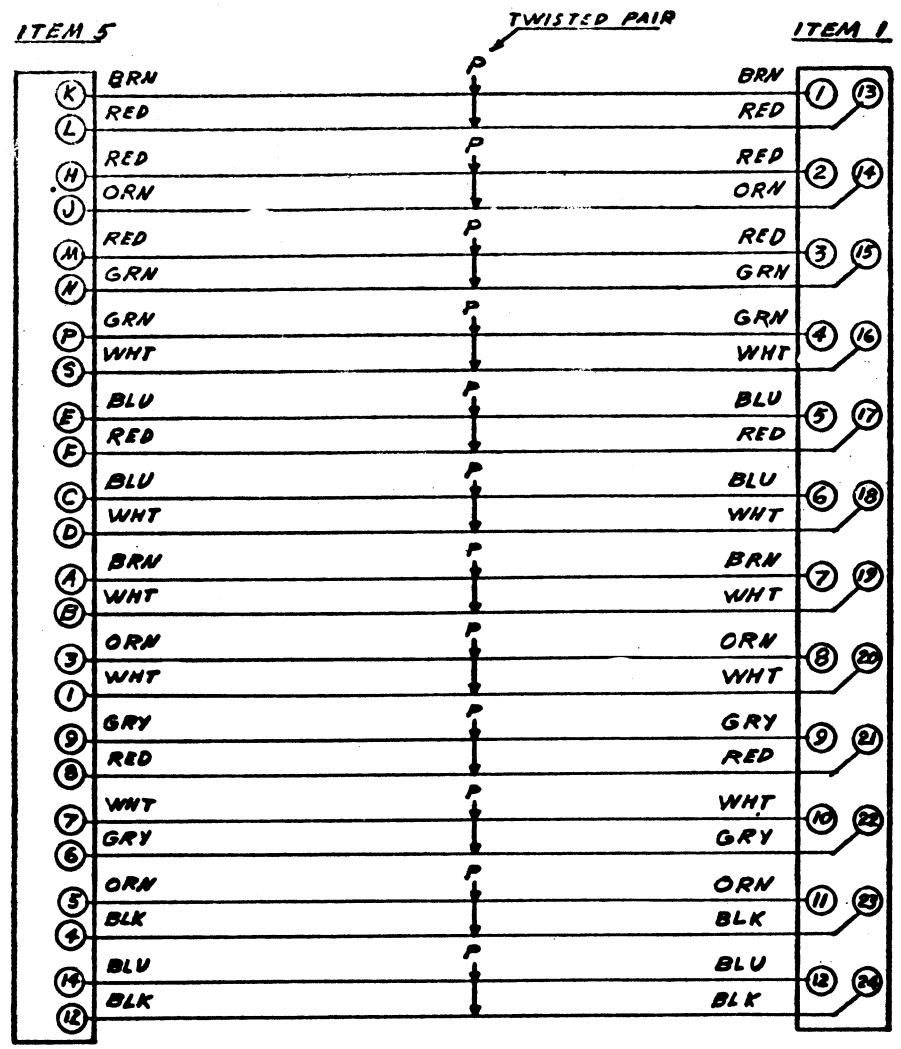
MODEL NO. 701

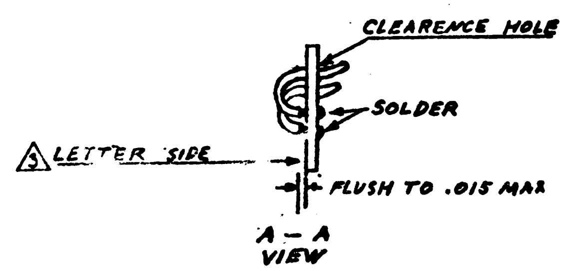
TITLE: SCHEMATIC LOGIBLOC OUTPUT WRITER

DWN 3/17/70 — CHK 4-17-70

SIZE D — DRAWING NUMBER 6066 — REV 5

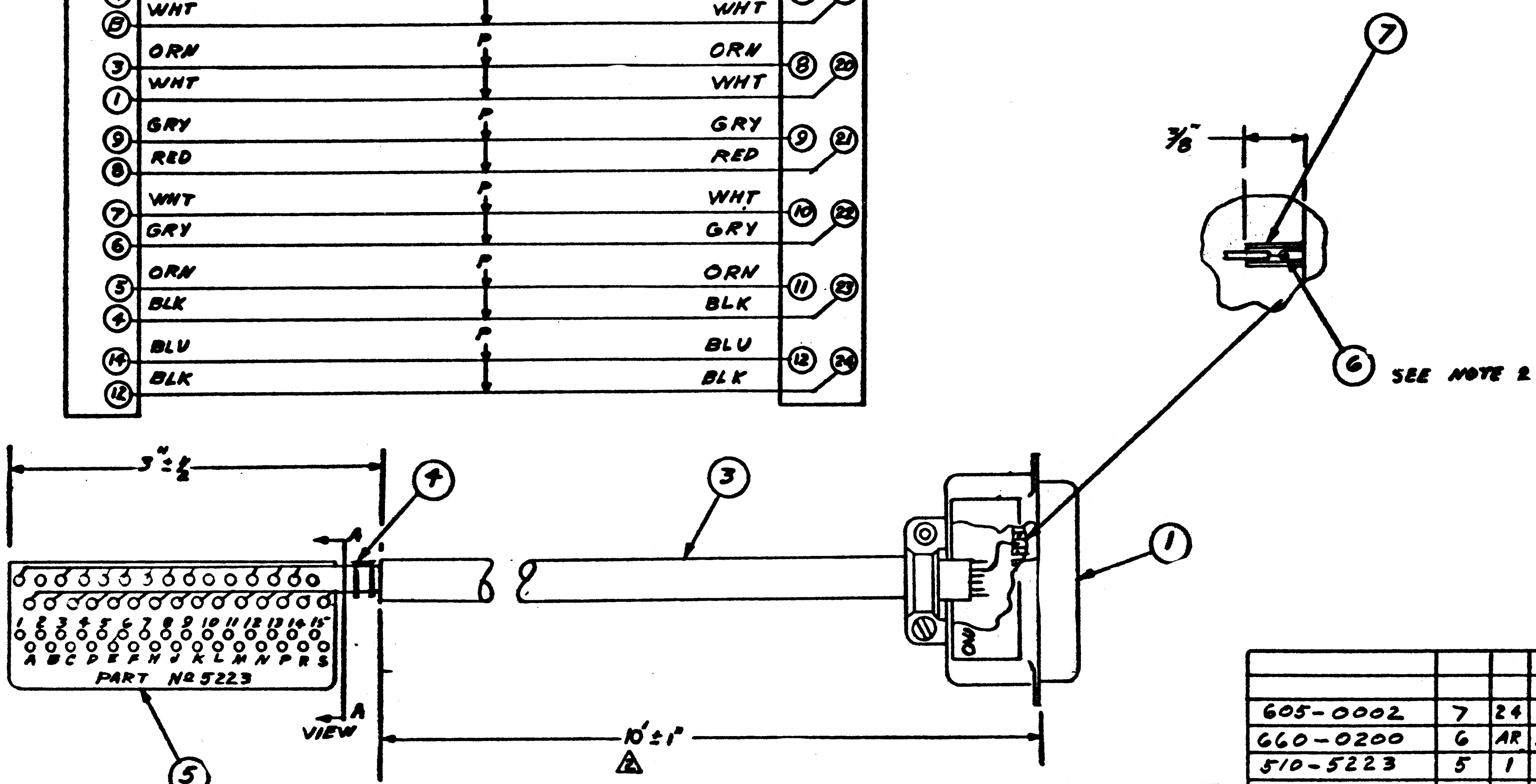
DO NOT SCALE





NOTE:-

1. SOLDER ITEM 3 TO ITEM 5 AS SHOWN PER WIRING DIAGRAM
2. SOLDER ITEMS 3 TO ITEM 1 PER WIRING DIAGRAM
3. STRIP BOTH ENDS OF ITEM 3 ABOUT 1/2" TO ENABLE SOLDERING INTO PLACE ITEM 1 TO ITEM 5 PER WIRING DIAGRAM.



WANG LAB. Nº	IDENT	QTY	NAME	MATERIAL	DESCRIPTION
605-0002	7	24	SLEEVE #15 TUBING		3/8" LONG
660-0200	6	AR	SOLDER		SEE NOTE 2
510-5223	5	1	P.C. BOARD 5223		
605-1000	4	AR	LACING		
420-0022	3	AR	CABLE		SEE NOTE 3
350-2023	1	1	CONNECTOR		

QTY. PER UNIT	FIRST USED ON	ASSY. USED ON
1	05776-561	05776-550

TOL. EX. AS NOTED: .XX ±.010, .XXX ±.005, FRAC. ±1/64, ANG. ±0°30'

FINISH: ✓

MATERIAL

FINISH

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

DR [illegible] DATE 3/24/70
CHK [illegible] DATE 3/24/70
APPD [illegible] DATE 3/24/70

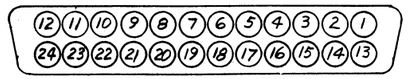
MODEL No. 701, 702, 711 | W.O. No. | SCALE 4/1 | SHEET OF

TITLE: INPUT CABLE

PART NUMBER	REV	SIZE	DRAWING NUMBER
220-0017	3	C	6080

NO	REVISION	DATE	BY
1	PER ECN #3458 REMOVED LABEL APP'D BAJ	1-8-73	[illegible]
2	REV PER ECN 3912 [illegible] 11-14-73	12-5-73	[illegible]
3	REV. PER. REQ #0710 [illegible] 2-19-74	2-20-74	[illegible]

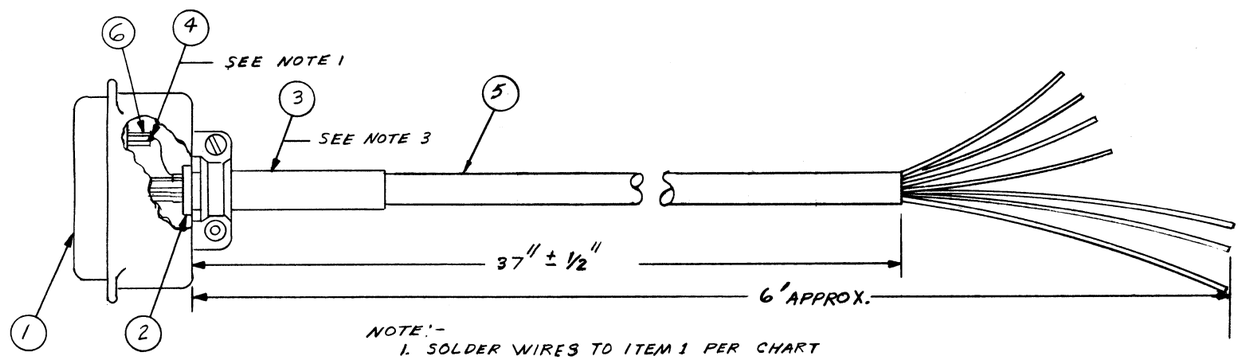
VIEW WIRING SIDE OF CONN. AMP. 57-30240



ASSEMBLY		CABLE	
SIGNAL SOLENOIDS	TERM. PIN TIE POINT	WIRE COLOR	PIN No.
CARAGE MOTION DETECTOR		14	1
CARAGE MOTION DETECTOR		16	2
±0V	37	3	3
PRINT CYCLE		6	4
———	———	5	5
+26V	29	4	6
———	———	7	7
TAB	9	8	8
TAPC N/O		9	9
K2	16	10	10
SPACE	30	11	11
PRINT	1	12	12

ASSEMBLY		CABLE	
SIGNAL SOLENOIDS	TERM. PIN TIE POINT	WIRE NO.	PIN No.
SHIFT	41	13	13
SET TAB		1	14
RETURN	32	15	15
CLEAR TAB		2	16
INDEX	43	17	17
LOCK KYBD	5	18	18
R1	7	19	19
BACK SPACE	45	20	20
R5	20	21	21
R2A	3	22	22
T1	14	23	23
T2	18	24	24
		25	25

SEE NOTE 2



NOTE:-
1. SOLDER WIRES TO ITEM 1 PER CHART
2. FOLD THIS LEAD BACK, DO NOT STRIP
3. ASSEMBLE ITEM 2 AND ITEM 3 TO ITEM 1

REVISIONS			
REV	BY	DATE	
1	LG	3-29-74	PER ECN #2829 REMOVED COLORED WIRES ADDED 25 COND. CABLE APP SKH
2	LG	9-24-74	PER ECN #3266 ADDED #12 TUBING APP: D SKH
3	PMB	5-3-75	RFA. Nº 0069 WAS: IN ITEM 3 IN MATERIAL LIST. W.L. Nº 350-4103

6	A/R	TUBING	605-0006	#12 3/8 LONG
5	6 FT	CABLE	420-0006	21 COND. 26 GA. & COND 20 GA
4	A/R	SOLDER	660-0200	60-40 ALLOY
3	1	BUSHING	605-0106	NEOPRENE 2 1/2"
2	1	STRAIN RELIEF	654-1208	WALKER #6
1	1	CONNECTOR	350-2023	57-30240
IDENT	QTY	NAME	W.L. PART NO.	DESCRIPTION

WANG LABORATORIES INC.
TEWKSBURY, MASS.

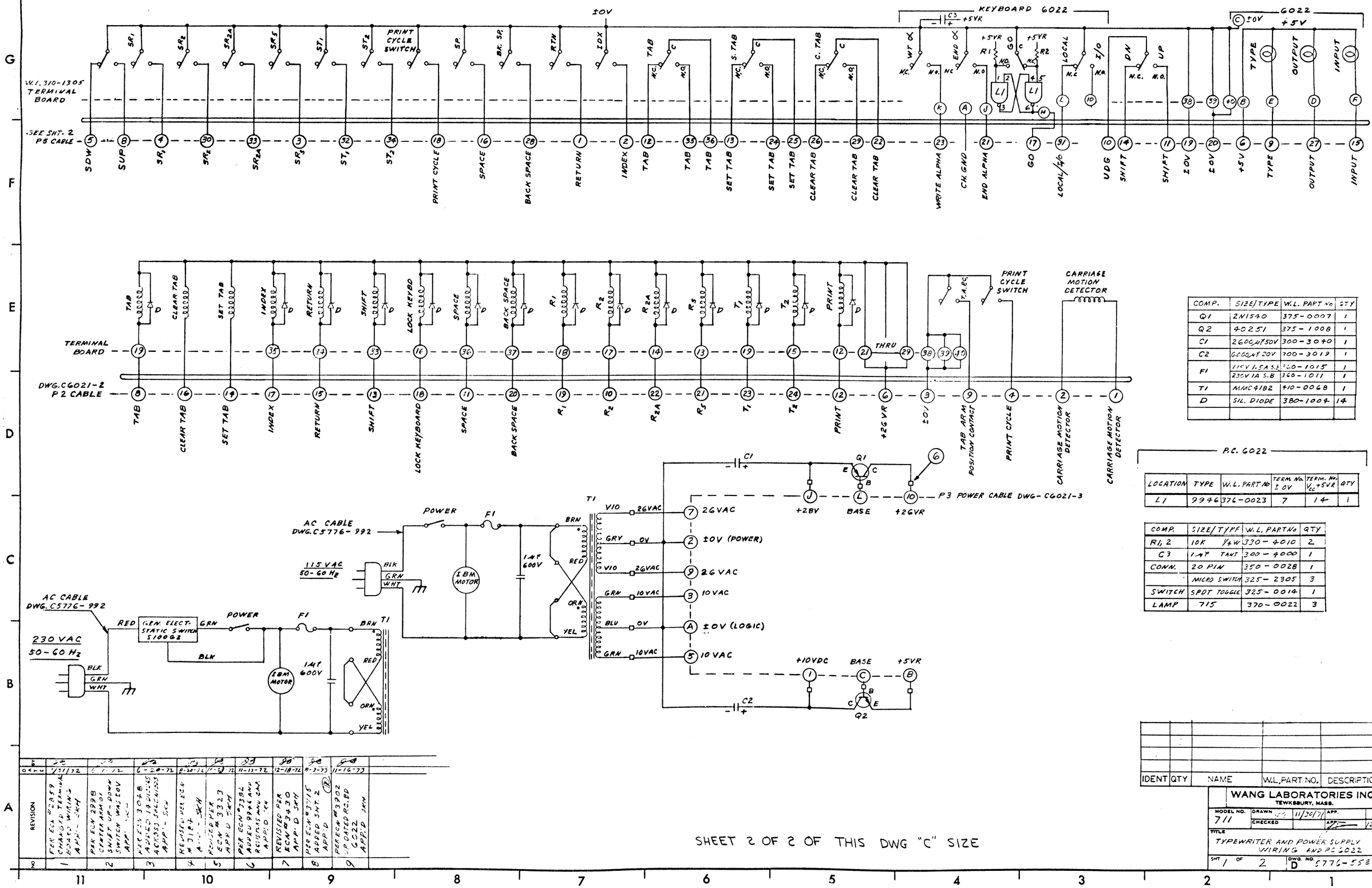
MODEL NO.	DRAWN	11/4/71	APP.	
711	CHECKED		APP.	12-27-71

TITLE
P2 OUTPUT CABLE TO C2

W.O. NO.	DWG. NO.	REV.
220-0072	C 6021-2	3

DWG. NO. C

DO NOT SCALE



COMP.	SIZE/TYPE	W.L. PART No	QTY
Q1	2N1540	375-0007	1
Q2	40251	375-1008	1
C1	2600µf 50V	300-3040	1
C2	6800µf 20V	300-3019	1
F1	115V 1.5A S.B.	360-1015	1
	230V 1A S.B.	360-1011	1
T1	MMC 4182	410-0068	1
D	SIL. DIODE	380-1004	14

P.C. 6022

LOCATION	TYPE	W.L. PART No	TERM. No. ±0V	TERM. No. V_{cc} +5VR	QTY
L1	9946	376-0023	7	14	1

COMP.	SIZE/TYPE	W.L. PART No	QTY
R1, 2	10K ¼W	330-4010	2
C3	1µf TANT	300-4000	1
CONN.	20 PIN	350-0028	1
	MICRO SWITCH	325-2305	3
SWITCH	SPDT TOGGLE	325-0014	1
LAMP	715	370-0022	3

NO	REVISION	BY	DATE
1	PER ECN #2859 CHANGED TERMINAL BOARD WIRING APP'D SKW	JS	1/31/72
2	PER ECN 2998 CENTER MOM OF SHIFT UP-DOWN SWITCH WAS EOV APP'D SKW	JS	6-1-72
3	PER ECN 3078 ADDED 19 DIODES ACROSS SOLENOIDS APP'D SKW	JS	6-20-72
4	REVISED PER ECN #3184 APP'D SKW	JS	8-30-72
5	REVISED PER ECN #3323 APP'D SKW	JS	10-31-72
6	PER ECN #3392 ADDED 994 ANN RESISTANCE ANN. APP'D SKW	JS	11-17-72
7	REVISED PER ECN #3430 APP'D SKW	JS	12-18-72
8	PER ECN #3715 ADDED SHT. 2 APP'D	JS	9-3-73
9	PER ECN #3902 UPDATED P.C.B'D 6022 APP'D SKW	JS	11-16-73

IDENT	QTY	NAME	W.L. PART NO.	DESCRIPTION

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.
711	11/30/71	
	CHECKED	APP. 12-22-71

TITLE: TYPEWRITER AND POWER SUPPLY WIRING AND PC 6022

SHT 1 OF 2 | DWG. NO. D 5776-558 | REV 9

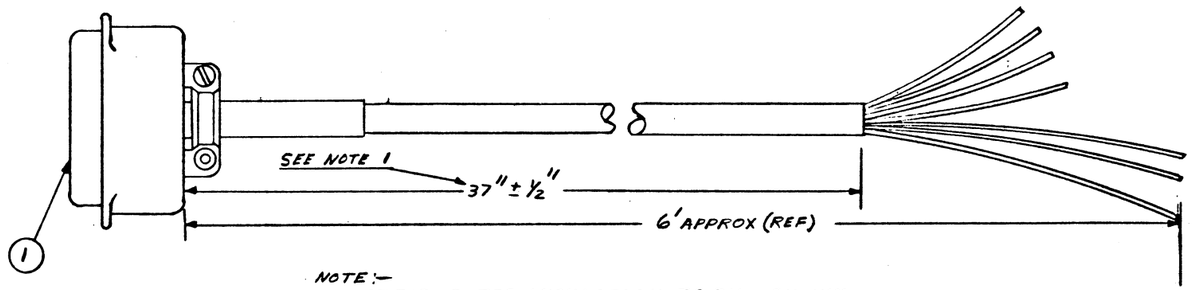
SHEET 2 OF 2 OF THIS DWG "C" SIZE

REVISIONS		
REV.	BY	DATE

WIRING CHART (REF)

ASSEMBLY		CABLE	
SIGNAL SWITCHES		WIRE NUMBER	PIN No. (REF)
RETURN N/O		1	1
INDEX N/O		2	2
SR_5 N/O		3	3
SR_1 N/O		4	4
SDW N/C		5	5
+5 P.C.6022		6	6
———		7	7
SUP N/O		8	8
TYPE P.C. 6022		9	9
UDG		10	10
SHIFT N/O		11	11
TAB N/C		12	12
SET TAB N/C		13	13
SHIFT N/C		14	14
INPUT P.C.6022		15	15
SPACE N/O		16	16
GO P.C.6022		17	17
PRINT CYCLE		18	18

ASSEMBLY		CABLE	
SIGNAL SWITCHES		WIRE NUMBER	PIN No. (REF)
±0V		19	19
±0V		20	20
END ALPHA P.C. 6022		21	21
CLEAR TAB C		22	22
WRITE ALPHA P.C. 6022		23	23
SET TAB N/O		24	24
SET TAB C		25	25
CLEAR TAB N/C		26	26
OUTPUT P.C 6022		27	27
BACK SPACE N/O		28	28
CLEAR TAB N/O		29	29
SR_2		30	30
LOCAL/I/O P.C 6022		31	31
ST_1		32	32
SR_{2A}		33	33
ST_2		34	34
TAB N/O		35	35
TAB C		36	36



NOTE:—
1. STRIP OUTER INSULATION TO DIM. SHOWN, FOLD BACK ALL UNUSED WIRES AND TIE

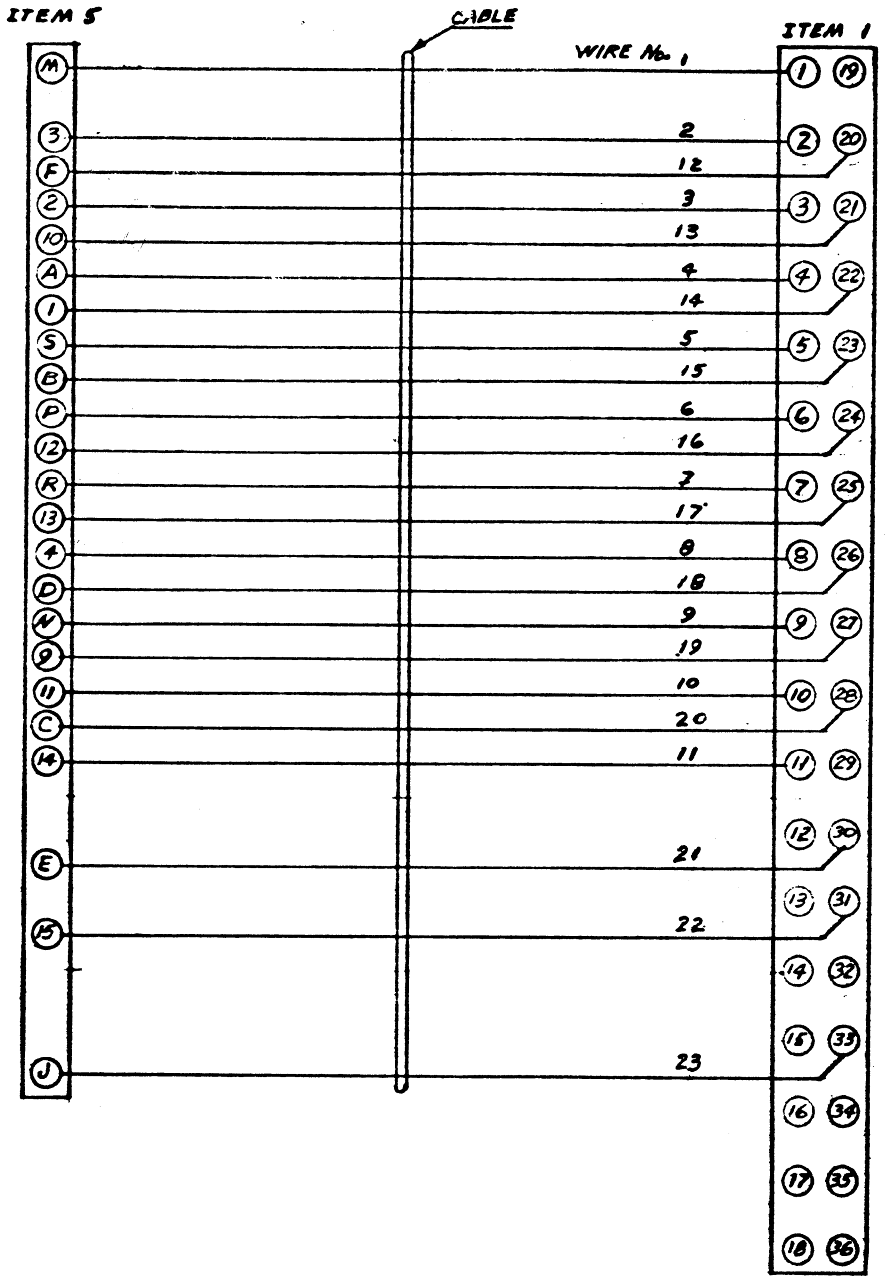
IDENT	QTY	NAME	W.L. PART NO.	DESCRIPTION
1	1	CABLE ASS'Y TYPE 2	220-2636-6	SEE DWG C6752-2

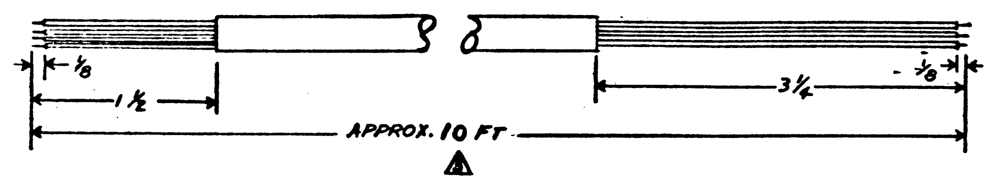
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
711	CHECKED		APP.	12-27-71

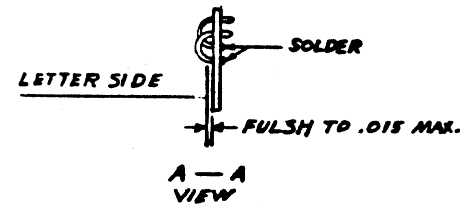
TITLE: F5 INPUT CABLE TO C5

SHT 2 OF 2 | DWG NO. C 5776-553 | REV. 10





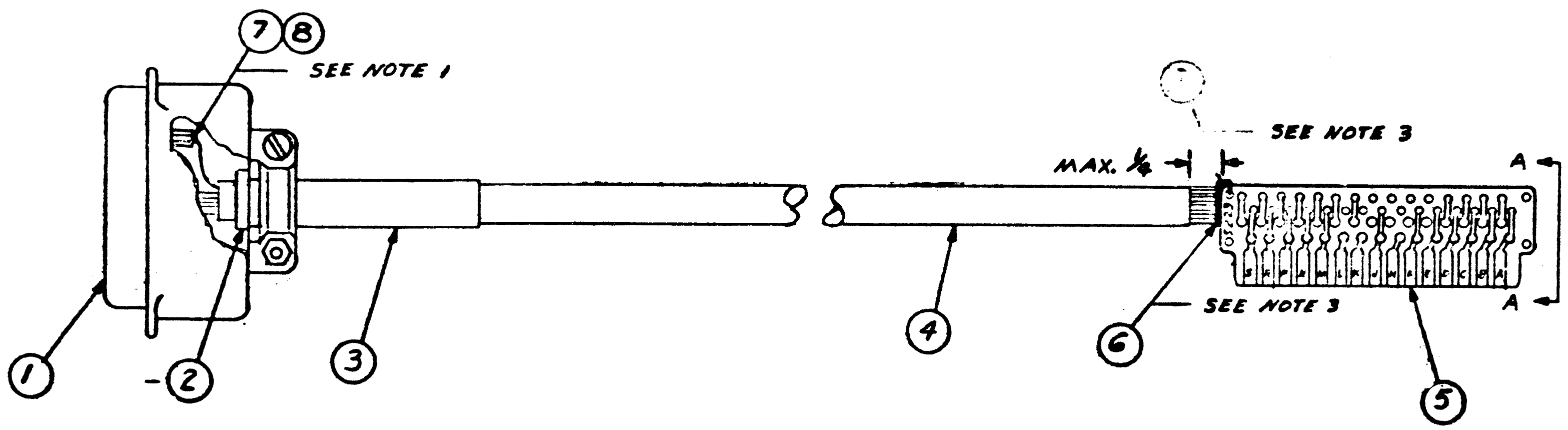
QTY. PER USED	FIRST USED ON	ASSY USED ON
1	05716-549	05716-550



NOTE:

1. SOLDER ITEM 4 TO PINS OF ITEM 1 WITH ITEM 7.
2. ASSEMBLE ITEM 2 AND ITEM 3
3. SOLDER ITEM 4 TO ITEM 5 WITH ITEM 7 AND TIE WITH ITEM 6 6 PLACES
4. TIE BACK DO NOT CUT OR STRIP SPARE LEAD.

REV.	DATE	REVISIONS
1	1-12-72	PER ECN #2672 WAS 36 COND. CABLE WIRE 31 NOW 14 WIRE 33 NOW 15 APP: SKN
2	9-29-72	PER ECN # 3267 WAS 30 COND. CABLE APP: D SKN
3	12-5-73	PER ECN 3912 11-19-73 CEC 11/15/73
4	12-5-73	PER RFA 0572 12-4-73 JRB



IDENT	QTY.	NAME	W.L. PART NO.	DESCRIPTION
8	A/R	TUBING	605-0002	#15 3/8 LONG
7	A/R	SOLDER	660-0200	60-40 ALLOY
6	A/R	LACING	605-1000	
5	1	FINGER BOARD	510-5223	WL 5223
4	1	CABLE	420-0002	24 COND. 26 GA.
3	1	TUBING	605-0106	NEOPRENE (2.51N)
2	1	STRAIN RELIEF	654-1208	WAKER #6
1	1	CONNECTOR	350-2025	57-30360

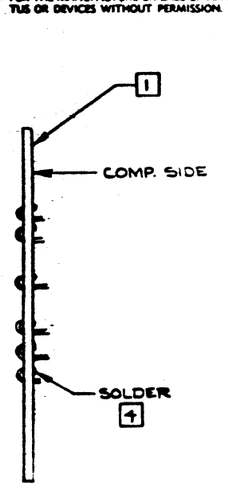
WANG LABORATORIES INC.
TEWKSBURY, MASS.

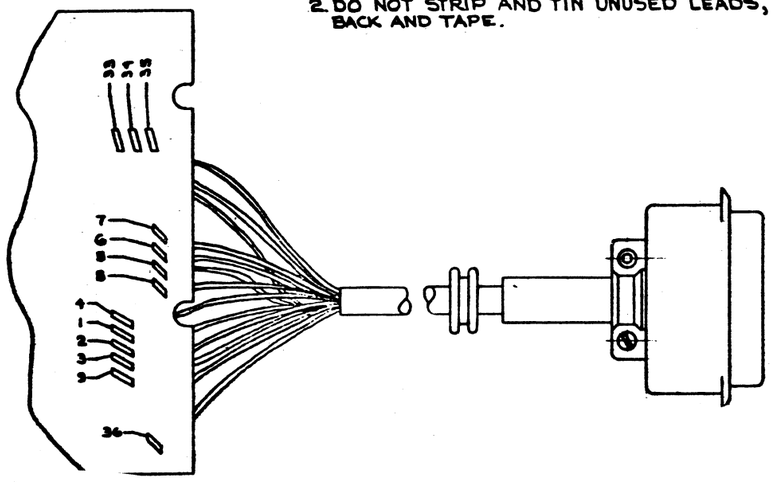
MODEL NO. 711 | DRAWN 11/3/71 | CHECKED | APP. 12-27-71

TITLE: I/O CABLE TO C 4

W.L. NO. 220-0070 | C | DWG. NO. 6021-4 | REV. 4

NOTES:
1. GROMMET MUST BE ON CABLE BEFORE WIRING TO P/C BOARD.
2. DO NOT STRIP AND TIN UNUSED LEADS, FOLD BACK AND TAPE.



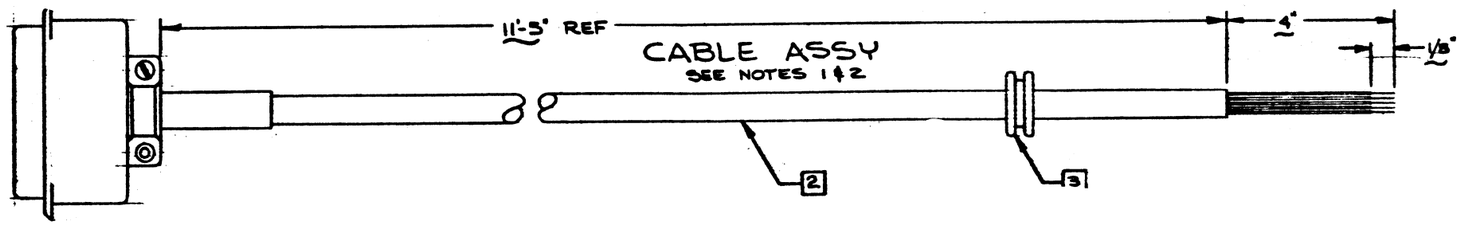


P/C BOARD G280	WIRING NUMBER	CONNECTOR	
1	1	1	$\overline{GKA_0}$
2	2	2	$\overline{GKA_1}$
3	3	3	$\overline{GKA_2}$
4	4	4	$\overline{GKA_3}$
5	5	5	$\overline{GKB_0}$
6	6	6	$\overline{GKB_1}$
7	7	7	$\overline{GKB_2}$
8	8	8	$\overline{GKB_3}$
9	9	9	$\overline{GISN}$
36	36	36	CH. GND
35	35	35	±0V
34	34	34	±0V
33	33	33	±0V
○	11	11	$\overline{BSY}$

CONNECT TO ±0 VOLTS

HOLE LEGEND		
DRILLED OR PUNCHED HOLE TOLERANCES:	HOLE DIA.	TOL.
	.0135 to .125	+.003 −.001
	.126 to .250	+.005 −.001
	.251 to .500	+.007 −.001

IDENT.	DESCRIPTION	QTY.
A		



WANG PART NO	ITEM	QTY.	NAME	MATERIAL	DESCRIPTION
660-0202	4	AR	SOLDER		63-37 ALLOY
654-1202	3	1	GROMMET		3/8" ID FOR 1/2" HOLE
220-2636-9	2	1	CABLE ASSY TYPE 2		DWG. C6482-2
210-6280	1	1	P.C. BOARD ASSY		DWG. D6280-1

REVISION	Qty. Per Unit	FIRST USED ON	ASSY USED ON

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

MATERIAL: SEE PARTS LIST

MODEL NO. 2214

SEE ENGRG SPECIFICATIONS No. ES-1001

FINISH

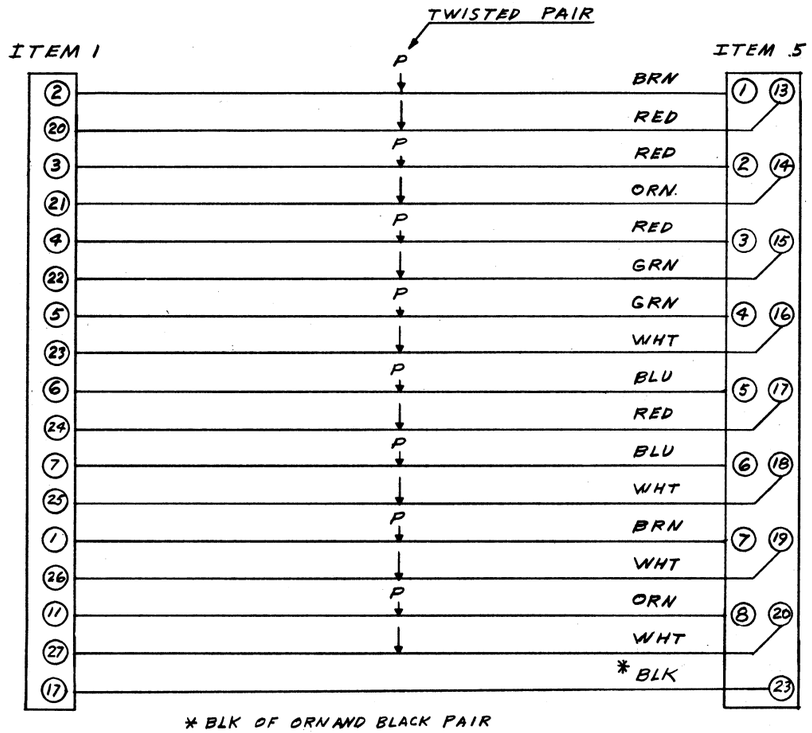
TOL. EX. AS NOTED .XX ± .010 FRAC ± 1/64 .XXX ± .005 ANG ± 1°30' FINISH 125

SCALE 1:1 SHT 1 OF 1

BY	DATE	APPROVED BY	DATE
DWN LARRY T.	11-13-73	E ENGR	
CHK		M ENGR	
E C CONTROL		MFG ENGR	12-5-73

TITLE: I/O CABLE ASSY

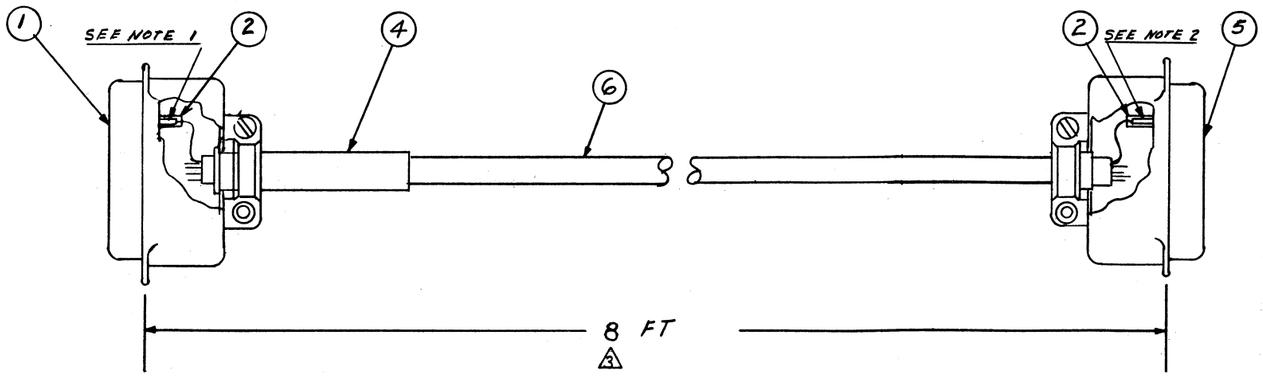
WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
E-0829	C	6280-3	0



* BLK OF ORN AND BLACK PAIR

NOTE:
1) ASSEMBLE ITEM 4 TO ITEM 6
ASSEMBLE ITEM 2 TO ITEM 6
SOLDER ITEM 6 TO ITEM 5 PER WIRING.
2. AFTER ASSEMBLY OF ITEM 2, SOLDER
ITEM 6 TO ITEM 5 PER WIRING DIAGRAM
3. UNUSED WIRE TO BE CUT.

REV.	BY	DATE	REVISIONS
1	[illegible]	9-18-72	REVISIED PER ECN # 3130 APP'D SKH
2	[illegible]	2-12-73	PER ECN # 3517 ADD'D BLACK WIRE APP'D SKH
3	[illegible]	10-5-73	REV. PER ECN# 3912 11-14-73 CEC 11/15/73
4	[illegible]	12-3-73	PER RFA 0572 12-4-73 [illegible]



IDENT	QTY	NAME	W.L. PART NO.	DESCRIPTION
6	A/R	CABLE	420 - 0022	DATA INPUT CABLE
5	1	CONNECTOR	350 - 2023	24 PIN
4	1	BUSHING	350 - 4104	# 4 BUSHING
-				
2	A/R	SLEEVE	605 - 0002	#18 1/2" LONG
1	1	CONNECTOR	350 - 2025	36 PIN

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP'D	
721	CHECKED		APP.	

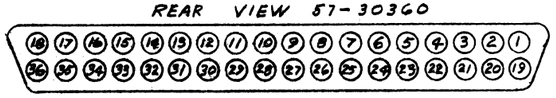
TITLE: I/O CABLE

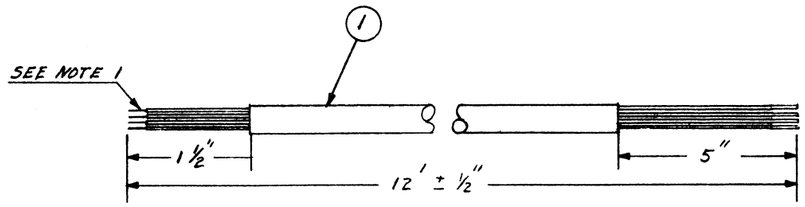
W.O. NO. 220-0078 | DWG. NO. C 6465 | REV. 4

94

DO NOT SCALE

REAR VIEW 57-30360



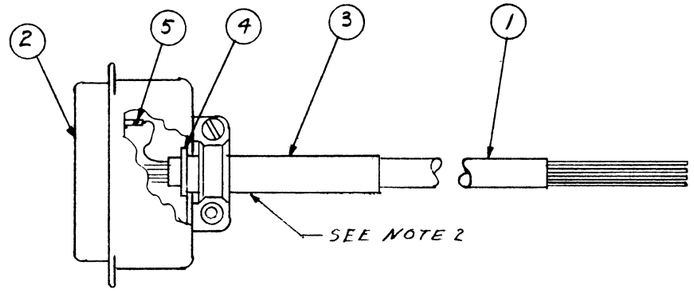


HOLE LEGEND		
DRILLED OR PUNCHED HOLE TOLERANCES:	HOLE DIA.	TOL.
	.0135 to .125	+.003 −.001
	.126 to .250	±.004 −.001
	.251 to .500	+.005 −.001

IDENT.	DESCRIPTION	QTY.
A		

SIGNAL	WIRE NO	PIN NO.
$\overline{GKA_0}$	10	1
$\overline{GKA_1}$	11	2
$\overline{GKA_2}$	13	3
$\overline{GKA_3}$	26	4
$\overline{GKB_0}$	7	5
$\overline{GKB_1}$	12	6
$\overline{GKB_2}$	8	7
$\overline{GKB_3}$	9	8
$\overline{GISN}$	4	9
$\overline{PRMS}$	1	10
$\overline{GLRN}$	3	11
—	—	12
—	—	13
—	—	14
—	—	15
—	—	16
—	—	17
—	—	18

SIGNAL	WIRE NO.	PIN NO.
—	—	19
$\overline{GI_0B_0Fb}$	17	20
$\overline{GI_0B_1Fb}$	18	21
$\overline{GI_0B_2Fb}$	19	22
$\overline{GI_0B_3Fb}$	15	23
$\overline{GI_0A_0Fb}$	20	24
$\overline{GI_0A_1Fb}$	21	25
$\overline{GI_0A_2Fb}$	16	26
$\overline{GI_0A_3Fb}$	22	27
$\overline{IOB_1}$	14	28
—	—	29
$\overline{IOB_3}$	6	30
$\overline{GISO}$	5	31
$\overline{GKBD}$	2	32
±0V	23	33
±0V	24	34
±0V	25	35
CH. GND	30	36



NOTE
1. STRIP BACK ¼" AND TIN ⅛"
2. ASSEMBLE ITEM 3,4 AND CONNECTOR SHELL TO ITEM 1 AND SOLDER CABLE AS SHOWN PER CHART.
3. FOLD BACK AND TIE UNUSED WIRES

WANG PART NO.	ITEM	QTY.	NAME	MATERIAL	DESCRIPTION
660-0200	5	A/R	SOLDER		60-40 ALLOY
654-1208	4	1	STRAIN RELIFE		
605-0106	3	1	SLEEVE		RUBBER 2½" LONG
350-2025	2	1	CONNECTOR 36 PIN		AMPHENOL 57-30360
420-0013	1	1	CABLE (12 FT LONG)		30 COND. #26 GAUGE

Qty. Per Unit	FIRST USED ON	ASSY USED ON

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

	BY	DATE	APPROVED BY	DATE
DWN	[illegible]	8-29-72	E ENGR	
CHK			M ENGR	
E. C. CONTROL			MFG ENGR RCD	8-30-72

MATERIAL

FINISH

MODEL NO 6/722

SEE ENGRG SPECIFICATIONS No.

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

TITLE I/O KEYBOARD CABLE (6/722)

SCALE	SHT	OF	WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
			220-0086	C	5776-2042	

5776-2042 C

NO.	REVISION	DATE	BY

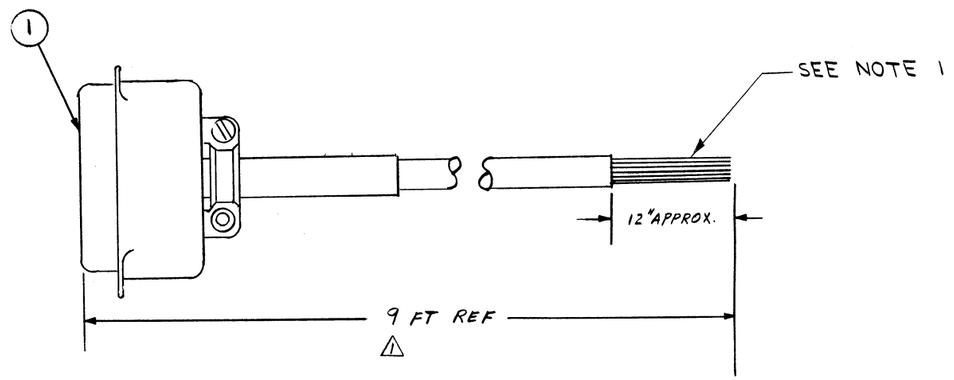
DO NOT SCALE

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		

PIN NO.	WIRE NO.	SIG.
1	1	$\overline{GKA_0}$
2	2	$\overline{GKA_1}$
3	3	$\overline{GKA_2}$
4	4	$\overline{GKA_3}$
5	5	$\overline{GKB_0}$
6	6	$\overline{GKB_1}$
7	7	$\overline{GKB_2}$
8	8	$\overline{GKB_3}$
9	9	$\overline{GISN}$
10	10	$\overline{PRMS}$
11	11	$\overline{GLRN}$
12	12	X
13	13	X
14	14	X
15	15	X
16	16	X
17	17	X
18	18	X

PIN NO.	WIRE NO.	SIG.
19	19	X
20	20	$\overline{GI_0B_0}$ Fb
21	21	$\overline{GI_0B_1}$ Fb
22	22	$\overline{GI_0B_2}$ Fb
23	23	$\overline{GI_0B_3}$ Fb
24	24	$\overline{GI_0A_0}$ Fb
25	25	$\overline{GI_0A_1}$ Fb
26	26	$\overline{GI_0A_2}$ Fb
27	27	$\overline{GI_0A_3}$ Fb
28	28	$\overline{I_0B_1}$
29	29	$\overline{I_0B_2}$
30	30	$\overline{I_0B_3}$
31	31	$\overline{GISO}$
32	32	$\overline{GKBD}$
33	33	±0V
34	34	±0V
35	35	±0V
36	36	CH.GND



NOTE
1. STRIP OUTER INSULATION TO DIM. SHOWN. FOLD BACK ALL UNUSED WIRES AND TIE.

NO.	REVISION	DATE	BY
1	REV. PER ECN# 3912 11-14-73	12-7-73	J.K.

⚠1

220-2636-9	1	1	CABLE ASSEMBLY TYPE 2		SEE DWG. C6276-2
WANG PART NO.	ITEM	QTY.	NAME	MATERIAL	DESCRIPTION

Qty. Per Unit	FIRST USED ON	ASSY USED ON
2	P.C.6276	

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

MATERIAL

FINISH

MODEL NO. 724

SEE ENGRG SPECIFICATIONS No.

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

SCALE | SHT 1 OF 1

	BY	DATE	APPROVED BY	DATE
DWN	JB	12/12/72	E ENGR	2-26-73
CHK			M ENGR	
E. C. CONTROL			MFG ENGR	

TITLE I/O CABLE MODEL 700, 600 OR 400

	C	6276-2	1
WANG PART NUMBER	SIZE	DRAWING NUMBER	REV

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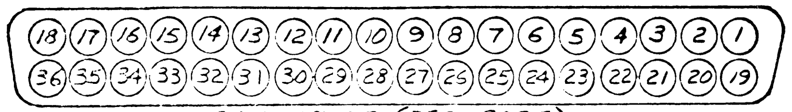
DO NOT SCALE

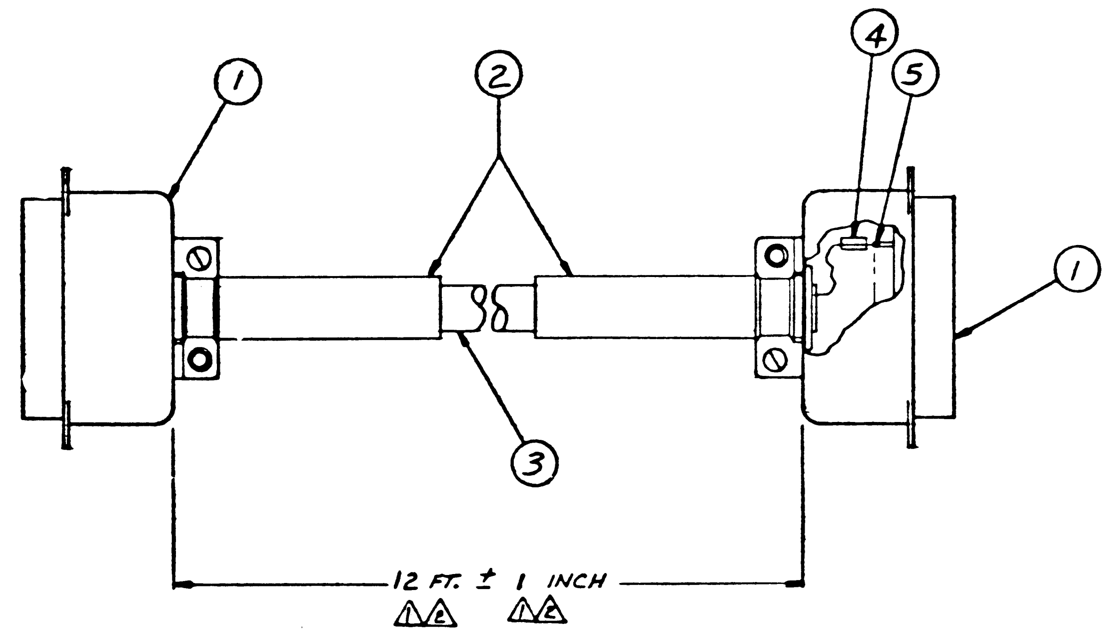
NOTES:
1. ASSEMBLE ITEM 2, ITEM 4, AND SHELL OF ITEM 1 BEFORE SOLDERING WIRES.
2. SOLDER WIRES PER CHART.

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			



CONNECTOR (350-2025)
(WIRING SIDE)

CONN. PIN NO.	WIRE COLOR	TWISTED PAIR	SIGNAL NAME	CONN. PIN NO.
1 19	RED GRN	PAIR	DTA STBE (overlined)	1 19
2 20	RED BRN	PAIR	DATA 1	2 20
3 21	RED GRY	PAIR	DATA 2	3 21
4 22	RED ORN	PAIR	DATA 3	4 22
5 23	RED BLU	PAIR	DATA 4	5 23
6 24	ORN WHT	PAIR	DATA 5	6 24
7 25	ORN YEL	PAIR	DATA 6	7 25
8 26	ORN BLK	PAIR	DATA 7	8 26
9 27	GRN YEL	PAIR	DATA 8	9 27
10 28	GRN WHT	PAIR	ACKNLG (overlined)	10 28
11 29	GRN BLK	PAIR	BUSY	11 29
12 30	BLU YEL	PAIR	—	12 30
13 31	BLU BLK	PAIR	—	13 31
14 32	BLU WHT	PAIR	—	14 32
15 33	BRN WHT	PAIR	—	15 33
16 34	BRN BLK	PAIR	± OV —	16 34
17 35	GRY WHT	PAIR	CHA. GND —	17 35
18 36	GRY BLK	PAIR	—	18 36



WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
660-0200	5	A/R	SOLDER		60-40 ALLOY
605-0002	4	2.3'	SLEEVE (# 15 TUBING)		72 PIECES 3/8" LG.
420-0025	3	12 FT	CABLE		26 G, 36 COND. T.P.
350-4104	2	2	BUSHING # 4		
350-2025	1	2	CONNECTOR (36-PIN-M)		AMPHENOL 57-30360

REV	DATE	BY	REVISION
1	12-5-72		REV. PER ECN° 3912 11-14-73
2	4-1-74		REV PER ECN° 4105 4-1-74

Qty Per Unit	FIRST USED ON	ASSY USED ON
1		

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

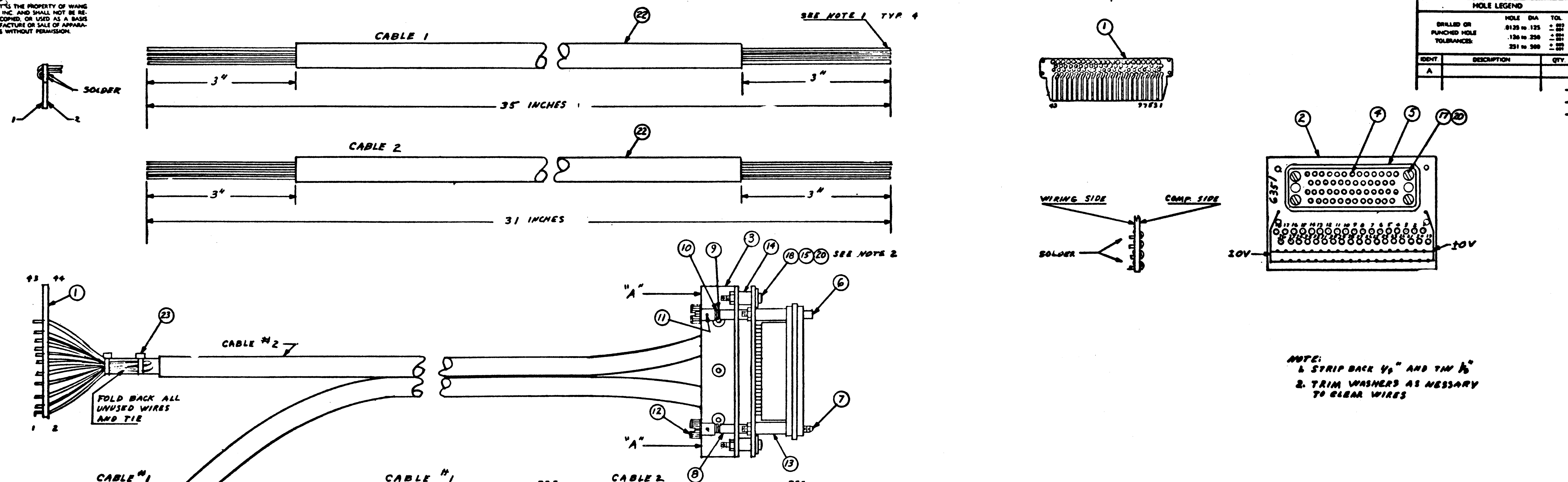
MATERIAL —
FINISH —
MODEL NO 2221
SEE ENGRG SPECIFICATIONS No ____
TOL EX AS NOTED XX ± .010 FRAC. ± 1/64 XXX ± .005 ANG ± 1°30' FINISH 125 √
SCALE NONE SHT 1 OF 1

BY	DATE	APPROVED BY	DATE
DWN F.E. SOUSA	4-23-73	E ENGR	4-24-73
CHK		M ENGR	
E C CONTROL		MFG ENGR	

TITLE
LINE PRINTER CABLE

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
220-0105	C	6422-129	2

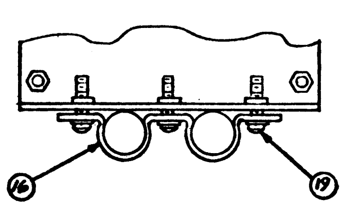
DO NOT SCALE



HOLE LEGEND		
	HOLE DIA	TOL
DRILLED OR PUNCHED HOLE TOLERANCES:	.0135 to .125	
	.126 to .250	
	.251 to .500	

IDENT	DESCRIPTION	QTY.
A		

"A" - "A"



CABLE #1

PAIR DESIGNATION	WIRE COLOR	F. BD 5958	P.C. BD 6351	REF WINCH. CONN.
BLK/BLU	BLK	35	16	N
	BLU	36	20V	
BRN/RED	BRN	33	24	S
	RED	34	20V	
RED/GRY	RED	31	35	J
	GRY	32	20V	
ORN/BLK	ORN	29	11	X
	BLK	30	20V	
YEL/BLU	YEL	27	27	f
	BLU	28	20V	
GRN/BLK	GRN	25	13	T
	BLK	26	20V	
BLU/RED	BLU	23	28	b
	RED	24	20V	
GRY/BLK	GRY	21	22	BB
	BLK	22	20V	
WHT/ORN	WHT	19	8	c
	ORN	20	20V	
BLU/WHT	BLU	17	18	j
	WHT	18	20V	
BLK/BRN	BLK	15	6	k
	BRN	16	20V	
WHT/GRY	WHT	13	5	n
	GRY	14	20V	
GRN/RED	GRN	11	4	V
	RED	12	20V	
ORN/YEL	ORN	9	29	W
	YEL	10	20V	
WHT/GRN	WHT	7	10	Y
	GRN	8	20V	
RED/ORN	RED	5	36	F
	ORN	6	20V	
GRN/YEL	GRN	3	1	P
	YEL	4	20V	
BRN/WHT	BRN	1	30	U
	WHT	2	20V	

CABLE 2

PAIR DESIGNATION	WIRE COLOR	F. BD 5958	P.C. BD 6351	REF WINCH. CONN.
BLK/BLU	BLK	33	15	E
	BLU	34	20V	
BRN/RED	BRN	31	7	e
	RED	32	20V	
RED/GRY	RED	29	14	K
	GRY	30	20V	
ORN/BLK	ORN	27	9	a
	BLK	28	20V	
YEL/BLU	YEL	25	21	AA
	BLU	26	20V	
BLU/RED	BLU	21	25	h
	RED	22	20V	
GRY/BLK	GRY	19	12	P
	BLK	20	20V	
WHT/ORN	WHT	17	32	H
	ORN	18	20V	
BLU/WHT	BLU	15	31	M
	WHT	16	20V	
BLK/BRN	BLK	13	20	u
	BRN	14	20V	
WHT/GRY	WHT	11	2	Y
	GRY	12	20V	
GRN/RED	GRN	9	23	t
	RED	10	20V	
ORN/YEL	ORN	7	3	w
	YEL	8	20V	
WHT/GRN	WHT	5	17	B
	GRN	6	20V	
RED/ORN	RED	3	34	A
	ORN	4	20V	
GRN/YEL	GRN	1	33	C
	YEL	2	20V	

THESE PARTS ARE STOCKED AS ONE ASSEMBLY PART No 350-2057 (items 6–12)

REV	WANG PART NO	ITEM	QTY.	NAME	MATERIAL	DESCRIPTION
	660-0201		A/R	SOLDER		63-37 ALLOY
1	605-1004	23	4	CABLE TIE		PAN-TY
1	420-0025	22	5.5	CABLE GTV		18 TWISTED PAIR #26 GAUGE
1						
	652-2001	20	8	NUT, HEX NYLON		#4-40
1	650-2160	19	3	SCR, PAN HD. PHIL. SEMS		#4-40 x 1/2 LG
1	650-2200	18	4	SCR, PAN HD SEMS		#4-40 x 5/8 LG
2	650-2283	17	4	SCR, FILLESTER HD		#4-40 x 7/8" LG
	452-2542	16	1	CABLE CLAMP		DWG. B6472-48
	653-0003	15	4	WASHER, FLAT NYLON		#4
	462-0022	14	4	SPACER 1/4 DIA x 1/4 LONG		
2	462-0200	13	4	SPACER 1/4 DIA. x 1/2 LONG		#4 CLEAR
		12	2	KNURLED NUT		
		11	2	PIN		
		10	2	WASHER, ALUMINUM		
		9	2	WASHER, STEEL		
		8	2	SPACER, ALUMINUM...		
		7	1	STUD, MALE		
		6	1	STUD, FEMALE		
	350-2057	5	1	CONNECTOR HOUSING		
	654-1162	4	50	CONNECTOR PINS		
	452-2110	3	1	CONNECTOR PLATE		DWG B6472-47
	510-6351	2	1	P.C. BOARD		
	510-5958	1	2	FINGER BOARD		

Qty Per Unit	FIRST USED ON	ASSY USED ON
1	C6472-56	

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

BY	DATE	APPROVED BY	DATE
DWN JB	1-16-74	E ENGR	
CHK		M ENGR	
E C CONTROL		MFG ENGR D.L.	1-18-74

MATERIAL

MODEL NO 2230-730-630

SEE ENGRG SPECIFICATIONS No. 25-1001

FINISH

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

SCALE — SHT 1 OF 1

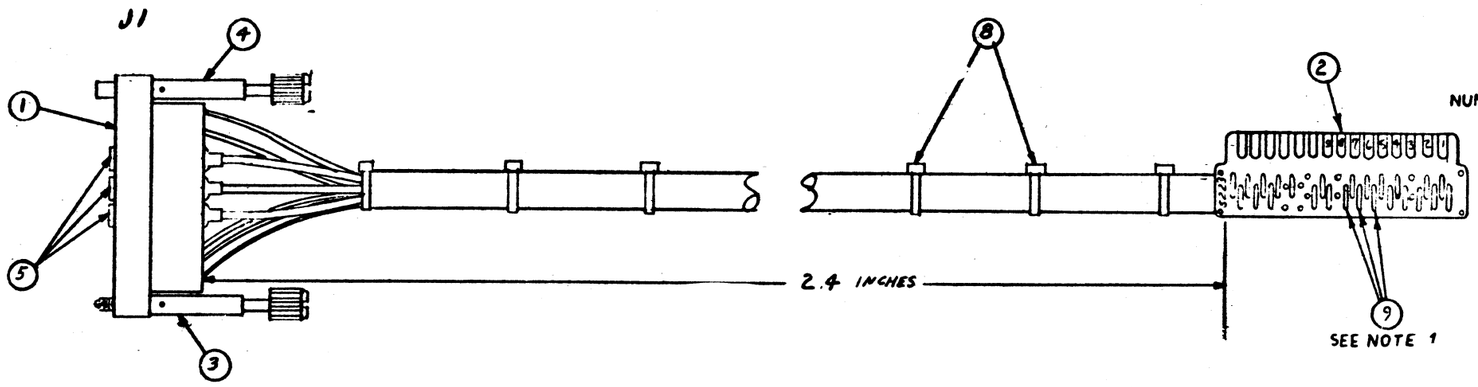
TITLE DIABLO DISK CABLE ASSEMBLY

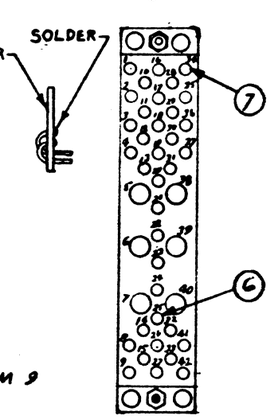
WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.
220-0108	D	6472-59	2

D 6472-59

REVISION		
1	REV. PER ECN# 4056 3-4-74	3-15-74
2	REV. PER ECN# 4071 3-13-74	3-15-74

DO NOT SCALE





NOTE
1. SLEEVE COAX SHIELD WITH ITEM 9

SIGNAL	FINGER BD PIN NO.	J1 PIN NO.	WIRE COLOR	WIRE SIZE
INDEX	1	16	WHITE	#26
STEP IN	2	3	BROWN	#26
—	3	—	—	—
STEP OUT	4	1	WHT/RED	#26
±0V	5	29	BLACK	#26
±0V	6	29	BLACK	#26
±0V	7	9	BLACK	#26
—	8	—	—	—
SECT	9	12	GRAY	#26
—	10	—	—	—
RDD	11	5	COAX CTR	—
RCLK	12	6	COAX CTR	—
W DATA	13	7	COAX CTR	—
WRIT RES	14	28	GREEN	#26
W ENABLE	15	34	WHT/ORN	#26

SIGNAL	FINGER BD PIN NO	J1 PIN NO.	WIRE COLOR	WIRE SIZE
Ld, Hd	A	10	ORANGE	#26
TRCK 00	B	18	VIOLET	#26
FR	C	30	BLUE	#26
±0V	D	2	BLACK	#26
±0V	E	11	BLACK	#26
±0V	F	17	BLACK	#26
±0V	H	35	BLACK	#26
±0V	J	—	COAX SHIELD	—
±0V	K	—	COAX SHIELD	—
±0V	L	—	COAX SHIELD	—
—	M	—	—	—
—	N	—	—	—
+5VR	P	32	RED	#24
-12VR	R	42	WHT/YEL	#26
+24VR	S	8	YELLOW	#18

W. L. PART NO.	IDENT	QTY	NAME	MATERIAL	DESCRIPTION
420-0018		6	WIRE COAX		
600-3094		2	WIRE (WHT/YEL)		#26 GAUGE
600-3093		2	WIRE (WHT/ORN)		#26 GAUGE
600-3092		2	WIRE (WHT/RED)		#26 GAUGE
600-3009		2	WIRE (WHITE)		#26 GAUGE
600-3008		2	WIRE (GRAY)		#26 GAUGE
600-3007		2	WIRE (VIOLET)		#26 GAUGE
600-3006		2	WIRE (BLUE)		#26 GAUGE
600-3005		2	WIRE (GREEN)		#26 GAUGE
600-0004		2	WIRE (YELLOW)		#18 GAUGE
600-3003		2	WIRE (ORANGE)		#26 GAUGE
600-2002		2	WIRE (RED)		#24 GAUGE
600-3001		2	WIRE (BROWN)		#26 GAUGE
600-3000		14	WIRE (BLACK)		#26 GAUGE
605-0014	9	AR	TUBING		SEE NOTE 1
605-1004	8	9	CABLE TYE		PAN-TY
654-1159	7	18	SOCKET AMP		FOR #24-26 GAUGE
654-1160	6	1	SOCKET AMP		FOR #18 GAUGE
654-1161	5	7	COAXIAL SOCKET		AMP
350-4223	4		JACK SCREW (LONG)		INTERNAL THREAD
350-4224	3	1	JACK SCREW (LONG)		EXTERNAL THREAD
510-5223C	2	1	FINGER BOARD		5223C
350-2058	1	1	42 PIN CONN.		

REVISION	BY	DATE

TOL. EX. AS NOTED
.XX ±.010 FRAC. ±1/64
.XXX ±.005 ANG. ±0°30'
FINISH √
MATERIAL
FINISH

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

DR		DATE 1-8-74
CHK		DATE 1/8/74
APPD		DATE 1/8/74

MODEL No. 74 W.O. No. SCALE 4/1 SHEET 1 OF 1

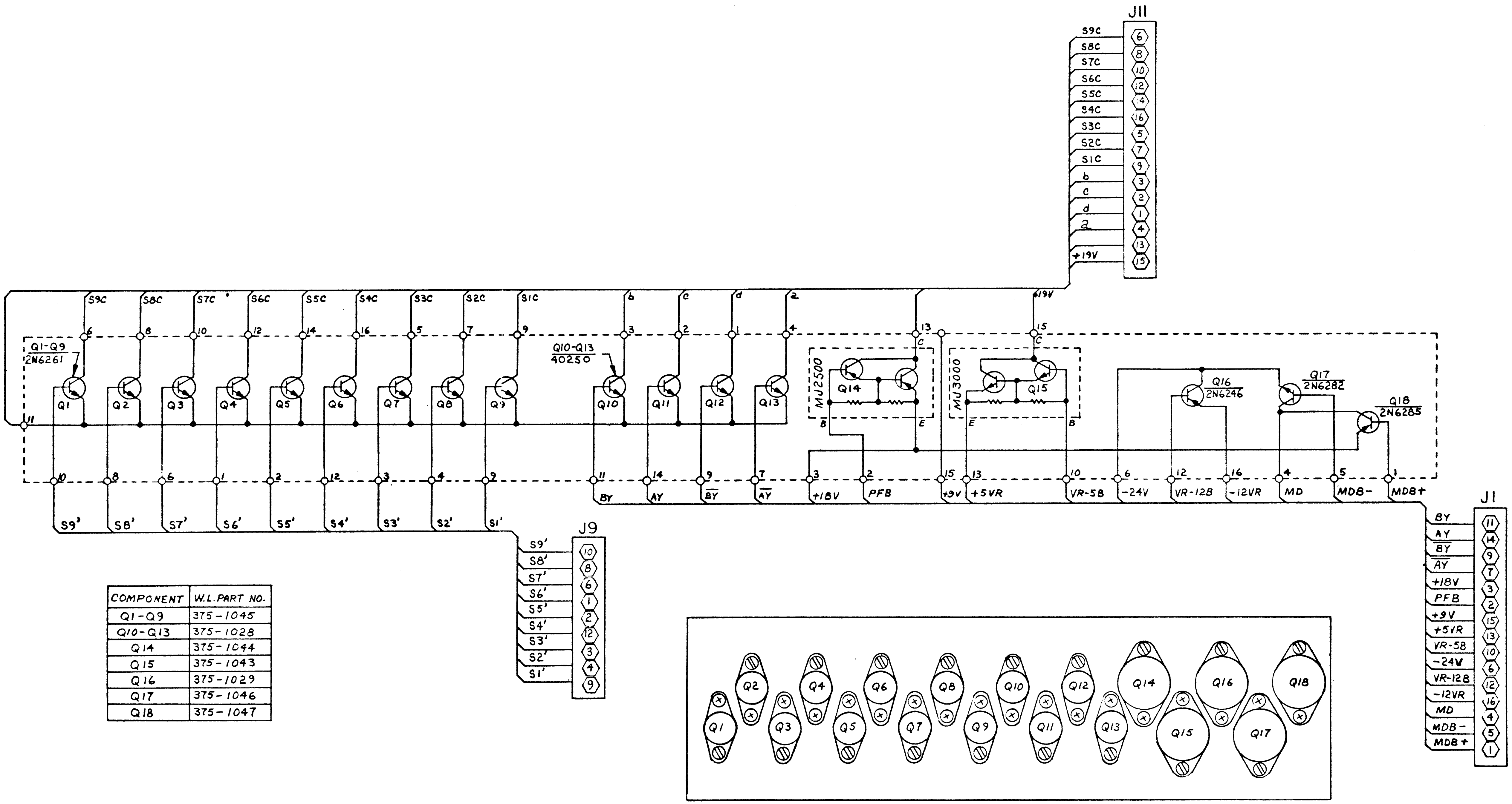
TITLE DISC INTERFACE CABLE ASS'Y

PART NUMBER	REV	SIZE	DRAWING NUMBER
220-0015	O	C	6499-25

DO NOT SCALE

HOLE LEGEND		
DRILLED OR PUNCHED HOLE TOLERANCES	HOLE DIA.	TOL
	.0135 to .125	
	.126 to .250	
	.251 to .500	

IDENT	DESCRIPTION	QTY
A		



COMPONENT	W.L. PART NO.
Q1-Q9	375-1045
Q10-Q13	375-1028
Q14	375-1044
Q15	375-1043
Q16	375-1029
Q17	375-1046
Q18	375-1047

E-REV 0

REVISION		
0	ORIG PER E-047 APP'D: R. Chen 10/6/75	9-8-75

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION

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

BY	DATE	APPROVED BY	DATE
DWN SK	9-8-75	E ENGR R Chen	10/6/75
CHK		M ENGR	
E C CONTROL		MFG ENGR	

MATERIAL

MODEL NO 72

SEE ENGRG SPECIFICATIONS No.

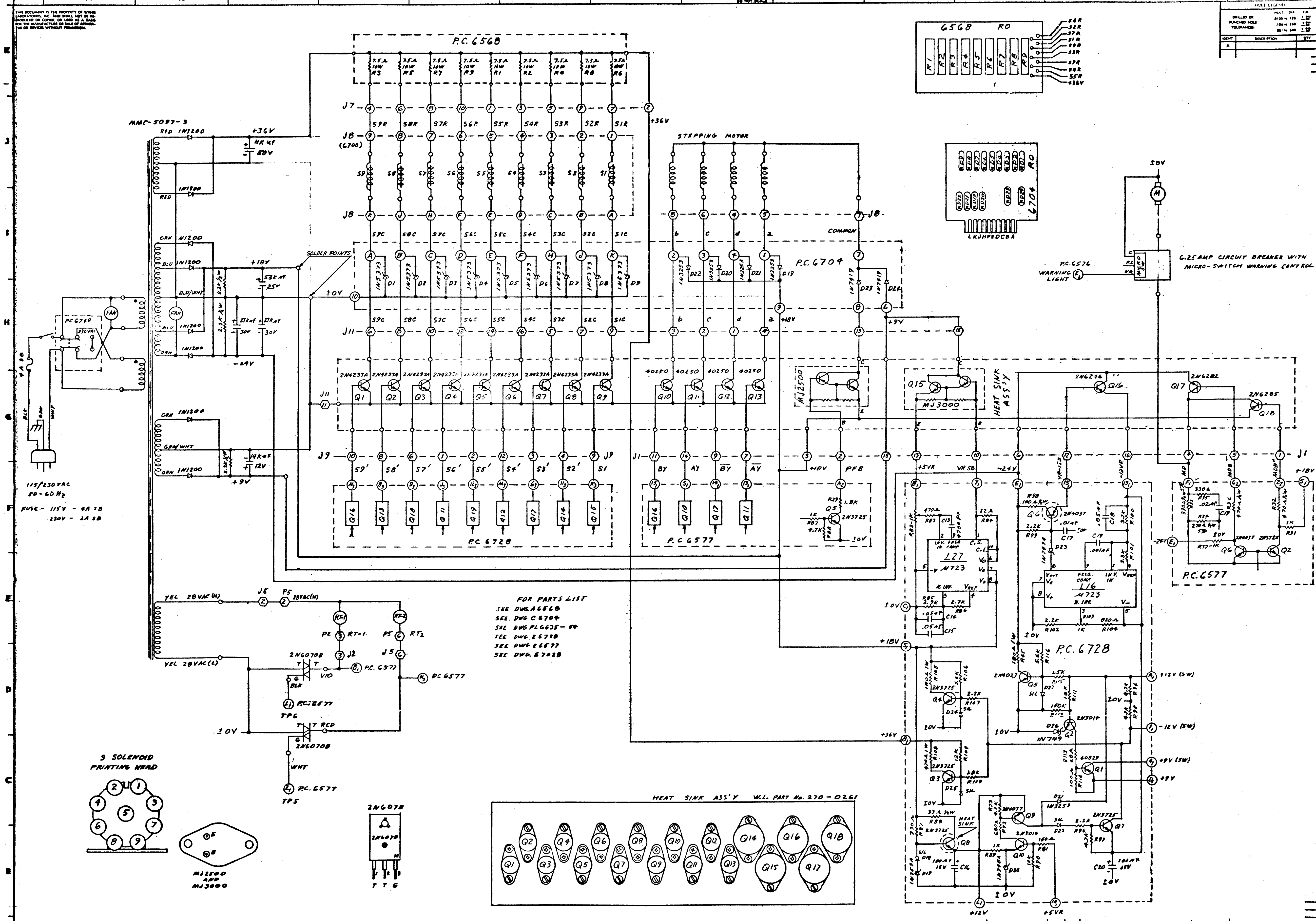
FINISH

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

SCALE — SHT OF

TITLE SCHEMATIC LOGIBLOC HEAT SINK ASSEMBLY

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
270-0261	D	6635-998	0



WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION

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

BY	DATE	APPROVED BY	DATE
DWN		E ENGR	7/6/75
CHK	6-5-75	M ENGR	
E C CONTROL		MFG ENGR	

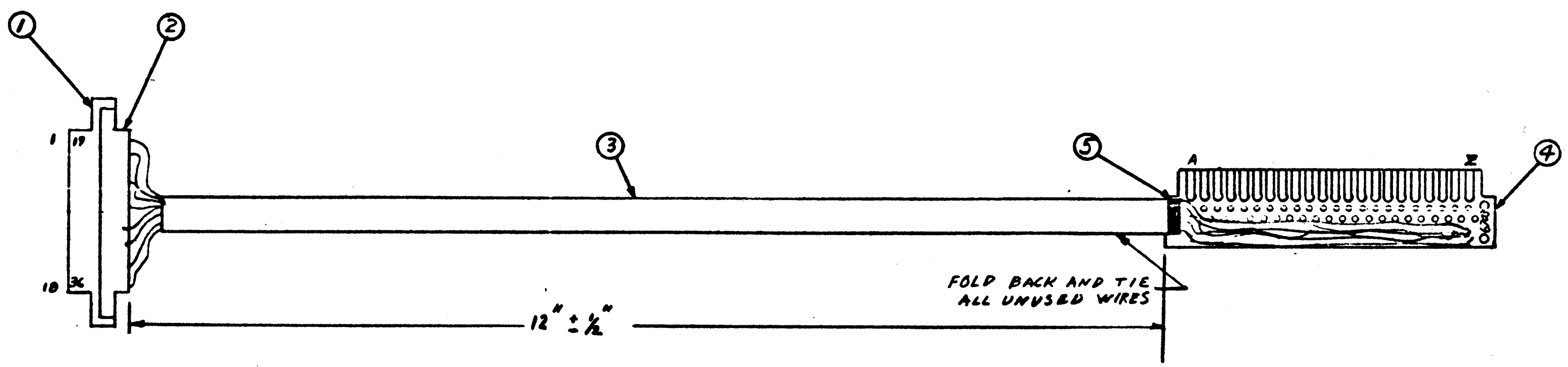
MODEL NO 72

SEE ENGRG SPECIFICATIONS No.

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

TITLE MATRIX PRINTER POWER CIRCUIT

SIZE E DRAWING NUMBER 6635-999 REV. 2



SIGNAL	CONN. PIN No.	WIRE No.	TO 6703
DATA STROBE	1	1	21
DATA 1	2	2	18
DATA 2	3	3	16
DATA 3	4	4	17
DATA 4	5	5	20
DATA 5	6	6	15
DATA 6	7	7	11
DATA 7	8	8	19
DATA 8	9	9	12
ACKLG	10	10	22
BUSY	11	11	3
PO	12	12	9
SLOT	13	13	F
FAULT	14	14	8
OSCXT	15	15	H
±0V	16	16	X
CHASSIS GND	17	17	4
+5VR	18	18	13

SIGNAL	CONN. PIN No.	WIRE No.	TO 6703
±0V	19	19	A
±0V	20	20	C
±0V	21	21	M
±0V	22	22	N
±0V	23	23	P
±0V	24	24	R
±0V	25	25	S
±0V	26	26	T
±0V	27	27	U
±0V	28	28	V
±0V	29	29	W
±0V	30	30	Z
IP	31	31	E
±0V	32	32	Y
SPKR	33	33	K
WST	34	34	5
±0V	35	35	10
	36	36	

SEE PL6482-49

REVISION
REV. PER RFA 1851 10-17-75

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION

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

BY		DATE	APPROVED BY	DATE
DWN			E ENGR	
CHK			M ENGR	
E C CONTROL			MFG ENGR	

MATERIAL

MODEL NO 72

SEE ENGRG SPECIFICATIONS No.

FINISH

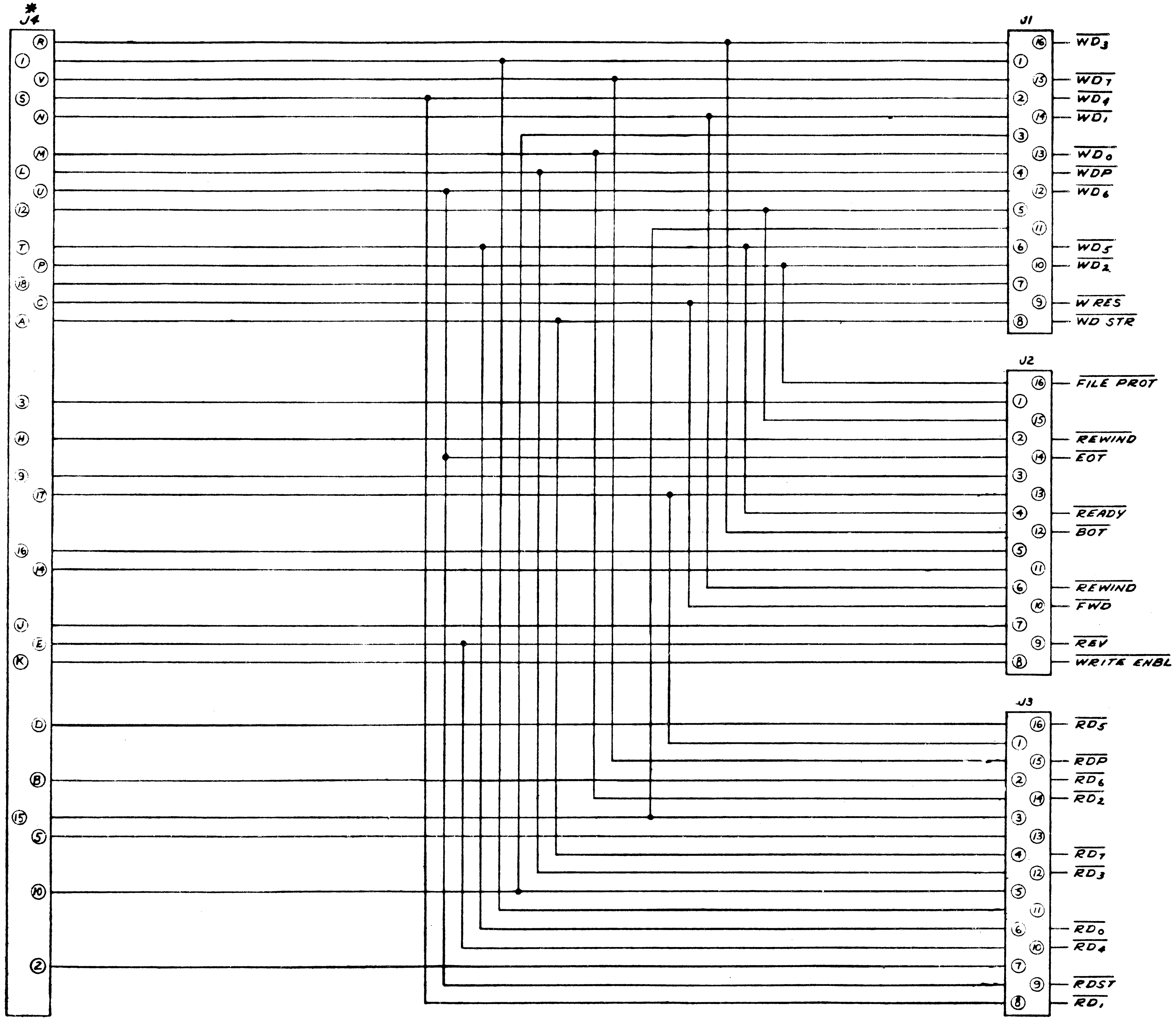
TOL. EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH

SCALE | SHT 1 OF 1

TITLE I/O INTERFACE CABLE

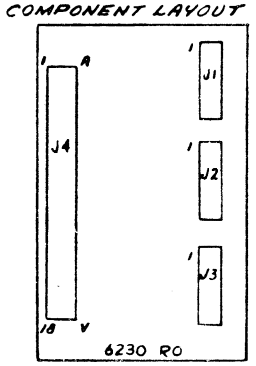
WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
220-0129	D	6482-49	

DO NOT SCALE



COMPONENT	SIZE/TYPE	W.L. NO.
J1, 2, 3	16 PIN I.C SKT. CAMBION	376-9005
J4	50-36B-10 CINCH JONES	350-0035

COMPONENT LAYOUT



NOTE: "*" J4 CAN BE PLUGGED INTO EITHER J1, J16 OR J6 ON THE TAPE TRANSPORT WITH APPROPRIATE CABLE (J1, J2 OR J3 RESPECTIVELY) PLUGGED INTO BOARD.

REVISION	LTR	DATE	BY
REVISED: PER DWR 208 APP'D.	B	1-2-76	FSS
REVISED: PER RLR 1469 APP'D.	0	1-16-75	FSS

HOLE LEGEND			
DRILLED OR PUNCHED HOLE TOLERANCES	HOLE DIA	TOL	

IDENT	DESCRIPTION	QTY
A		

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

MODEL NO 2209

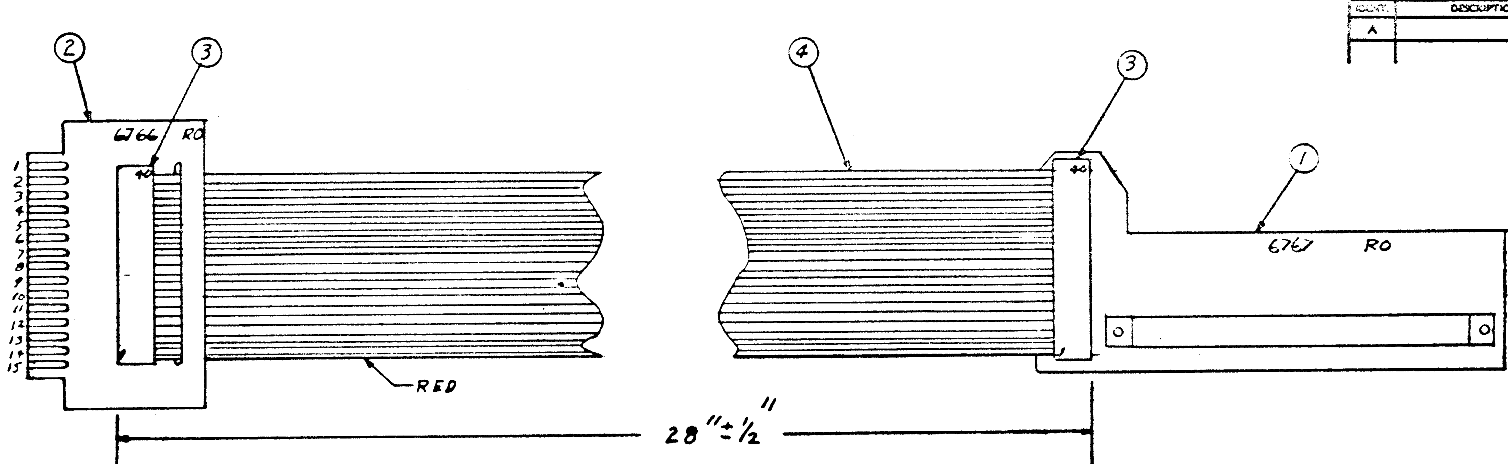
TITLE: CABLE JUNCTION BOARD

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

SCALE — SHT 4 OF 5

WANG PART NUMBER 210-6230 | SIZE D | DRAWING NUMBER 6230 | REV 0

D 6230



6718 SIDE (30 PIN)		SHUGART SIDE 40 PIN	
SIGNAL	PIN(S)	NAME	PIN (S)
FIR	A	FILE INOP RESET	4
IXI, 2 OR 3	J	INDEX	5
HDST	B	STEP	6
WTG	D	WRITE GATE	7
RDY	R	READY	8
FIO	S	FILE INOPERABLE	9
WCD	E	WRITE DATA	10
TKO	P	TRACK ZERO	12
DKI, 2 OR 3	N	DRIVE SELECT	13
SCMI, 2 OR 3	L	SECTOR	14
HD DIR	C	DIRECTION	15
		READ DATA	N. U.
RDDA	H	SEPARATED DATA	17
HLDI, 2 OR 3	M	HEAD LOAD	18
RCLK	F	SEPARATED CLOCK	19
WP	K	WRITE PROTECT	21
[illegible]	15	+5VDC	11, M
[illegible]	13	-5VDC	20, X
[illegible]	14	+24VDC	2, B
	1 THRU 12	±0V	D THRU L, N THRU S, U, V, W, Y

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
420-0045	4	A/R	40 CONDUCTOR FLAT CABLE		
350-0482C	3	2	CONNECTOR COVER		
210-6766	2	1	P.C. BOARD		DWG. C6766
210-6767	1	1	P.C. BOARD		DWG. C6767

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

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

BY	DATE	APPROVED BY	DATE
DWN	5/13/75	E ENGR	
CHK	9-6-75	M ENGR	
E C CONTROL		MFG ENGR	

MATERIAL:

MODEL NO WCS/2270

SEE ENGRG SPECIFICATIONS No.

FINISH

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

TITLE SHUGART FLOPPY DISK CABLE

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
220-3011	C	6482-62	1

SCALE SHT OF

REVISION: REVISED PER RPA # 1296 APP'D

RELEASED FOR ASSEMBLY
MANUAL

— LOAD HEAD FD100
+ 5VDC FD100
L13
L8
TP18
TP28
R13
R24
— LOAD HEAD FD200
+ 5VDC FD200

+ 24VDC FD100
L9
R9,R10,R11,L10
+ 24 VDC FD400
+ COMPOSITE INDEX / SECTOR [3] FD200
R23
TP22
DETECTOR
Q9 Q10 Q11
TP7
6C
7B
ONE SHOT 2.5MS
TP8
6D
TP10
Q12
R22
— SECTOR FD400
TP9
Q13
L22
— INDEX FD100

— TRK00 FD200
— NOT TRK00 FD200
— VALID HEAD LOAD FD200
R19
L19
R17
5D
6A
2µS DELAY
CR14-CR16
Q16
7A
Q14 Q15
R21
— TRACK 00 FD100
L17
— HEAD LOAD [1] FD400
+ HEAD UNLOADED FD320

— STEP IN FD100
R18
5D
2µS DELAY
TP26
TP12
7A
6D
6C
TP13
TP16
6A
Q17 Q22
L14
— ØI STEP [1] FD400

TP5,23,34
L4,L25,R1,R25
L4, R12
TP17
Q18 Q23
L20
— Ø2 STEP [1] FD400

TP27
— STEP OUT FD100
L18
5D
2µS DELAY
ONE SHOT 3µS
5C
TP11
6B
TP15
Q19 Q24
L21,L23
LOGIC GND FD200
L15
— Ø3 STEP [1] FD400
L16
+ 24VDC RTN FD 100
— WRITE ENABLE FD300
R4
POWER UP RESET DELAY 1 SEC
Q20-21
TP14
+5V
68Ω
L24
+ LED [2] FD200
— PWR UP RESET FD320
— WRITE ENABLE FD320

NOTES, UNLESS OTHERWISE SPECIFIED:

1. + 24 VOLTS FALSE, + 1 VOLT TRUE.
2. APPROX + 1.3 VOLTS.
3. ANALOG SIGNAL APPROX 3 VOLTS PEAK.

(SHEET 1 OF 3)

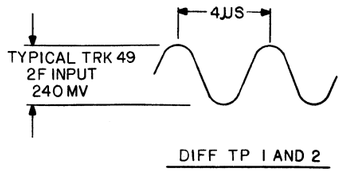
DATE	CHANGE NO.	DATE	CHANGE NO.	TECHNICAL APPROVAL			MEMOREX EQUIPMENT GROUP	
APR-72	2562						NAME	SYSTEM LOGIC DIAGRAM
MAR 73	21051							READ/WRITE/ACCESS
							DESIGN	
							DETAIL	1-28-72
							CHECK	2-1-72
							APPRO	5-9-72

204172

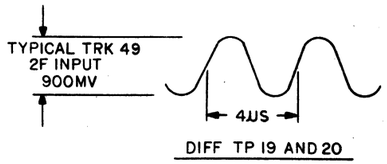
FD 300

D

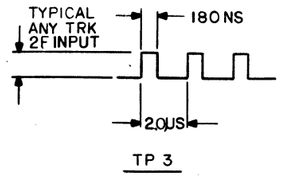
RELEASED FOR ASSEMBLY
MANUAL



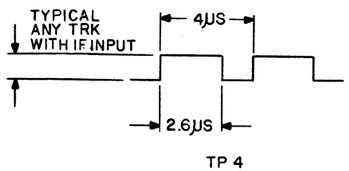
DIFF TP 1 AND 2



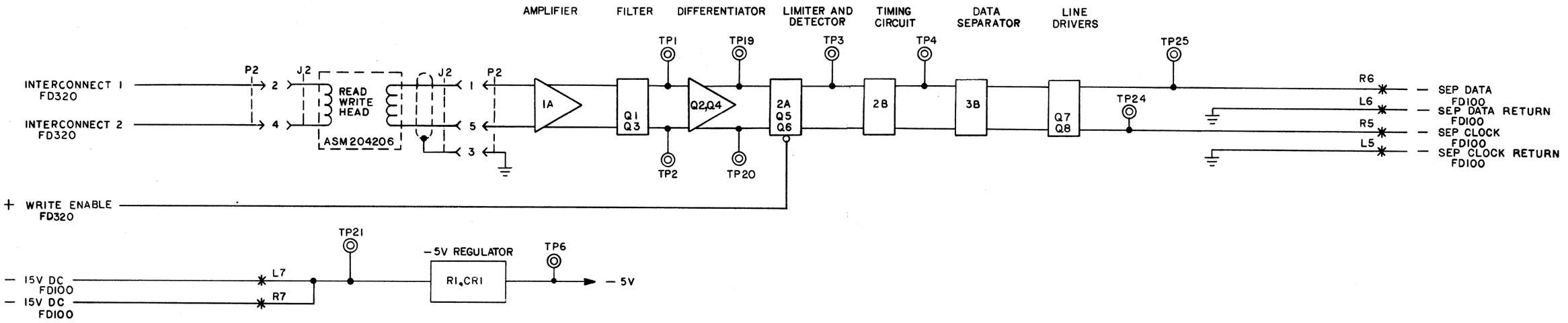
DIFF TP 19 AND 20



TP 3



TP 4



(SHEET 2 OF 3)

DATE	CHANGE NO.	DATE	CHANGE NO.	TECHNICAL APPROVAL
APR 72	2562			
MAR 73	21051			

MEMOREX EQUIPMENT GROUP

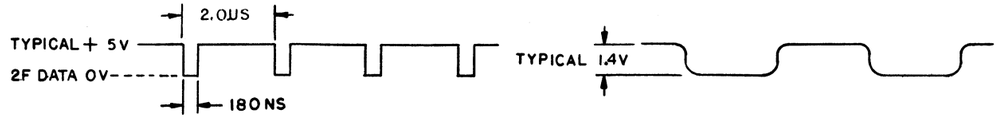
NAME	SYSTEM LOGIC DIAGRAM	
	READ/WRITE/ACCESS	
DESIGN	[illegible]	1-31-72
DETAIL	[illegible]	1-31-72
CHECK	R. Ose	2-1-72
APPRO	J FC	5-4-72

204172

FD310

D

RELEASED FOR ASSEMBLY
MANUAL



– WRITE DATA TP29 | DIFF TP30 AND 31

LOGICAL 1 LEVEL TP28 | LOGICAL 0 LEVEL TP32 | TYPICAL VALUE OF 19.0V DC TP33

– WRITE ENABLE FD300

+ WRITE ENABLE FD310

– WRITE DATA FD100

R2

TP29

TP36

R84 WRITE CURRENT SENSE

TP33

TP30

TP31

TP32

Q29 WRITE AMPL

Q30

R90 WRITE DAMPING

INTERCONNECT 1 FD310

INTERCONNECT 2 FD310

+5V

R88 4.75K

+ 5V

R94 4.75K

– WRITE PROTECT SW FD200

L11

Q25

+ HEAD UNLOADED FD300

– PWR UP RESET FD300

– FILE UNSAFE RESET FD100

L3

TP35

15µS DELAY

R3

– FILE UNSAFE FD100

L12

– WRITE PROTECT FD100

(SHEET 3 OF 3)

DATE	CHANGE NO.	DATE	CHANGE NO.	TECHNICAL APPROVAL			MEMOREX EQUIPMENT GROUP	
APR-72	2562						NAME	SYSTEM LOGIC DIAGRAM
MAR 73	21051							READ/WRITE/ACCESS
							DESIGN	
							DETAIL	R.E.K. FEB72
							CHECK	J.W. 2-5-73
							APPRO	J FC 5-4-73

204172

FD320

D

RELEASED FOR ASSEMBLY
012126

INTERCONNECT FD520 1
INTERCONNECT FD520 2
+ WRITE ENABLE FD520

R2 10K
R3 10K
C7 0.1
IC
R4 1K
R5 1K
C8 1.0 50V
C9 1.0 50V
L3 100 ±5%
L5 100 ±5%
L4 22 ±10%
L6 22 ±10%
C10 750PF 300V ±5%
R7 200
R6 200
R8 5.11K
R9 5.11K
Q1
Q3
TP1
TP2
R10 5.11K [7]
R11 5.11K [7]
R13 68.1
C11 750PF 300V ±5%
Q2
Q4
TP19
TP20
R12 1.5K
R14 1.5K
Q5
Q6
R15 5.11K
R16 5.11K
R25 549
R24 549
R23 549
R22 549
R21 549
R20 549
R19 549
R26 5.49K
C12 30PF 500V ±5%
R17 7.87K
R18 1K
2A BI-DIR O/S
NEG POS
+IN
−IN
C14 0.1
C39 .1μF 50V
TP3
C15 1000PF 300V ±5%
TP4
2B
3B
R27 1K
R28 432
R31 100 1/2W ±5%
Q7 2N2369A
R32 100 1/2W ±5%
Q8 2N2369A
TP25
TP24
R6
R5
R29 1K
R30 432
P99 10K
C16 10PF 500V ±5%
R100 1K

+5V(L) +5V(F) +5V −5V −15V

NOTES: UNLESS OTHERWISE SPECIFIED:

1. ALL RESISTORS ARE IN OHMS.
2. ALL RESISTORS ARE 1/8W, ±1%
3. ALL CAPACITORS ARE IN MICROFARADS, 100V, ±10%.
4. ALL INDUCTORS ARE IN MICROHENRIES.
5. ALL TRANSISTORS ARE 2N2222A.
6. ALL DIODES ARE IN4148.
7. [7] R10 OR R11 MAY HAVE RESISTOR PARALLEL TO IT FOR TRIMMING. TEST ENG IS TO DETERMINE THE TRIMMING RES VALUE.

REF DESIGNATION LAST USED	REF DESIGNATION NOT USED
R104	R59
C39	
L7	
Q30	
CR17	
TP36	

L8 120 ±5%
C33 39μF 10V
C37 39μF 10V
C38 .1μF 50V
+5V (F)
TP18
L8,R8,R24
+5V
C1 10 20V
C13 C23-27 .1
L1 300 ±5%
+5V (L)
L2 300 ±5%
L7,R7
TP21
C2 .01
C3 .1
−15V
C4 4.7 50V
C5 .01
R1 ±30 2W ±5%
TP6
5V
C6 .1
CR1 IN751
L9,R9,L10,R10,R11
+24V
C31 4.7 50V
TP5,23,34
C30 .1
L1,R1,L2,L5,L6,L4, L21,L23,L25,R25, R12
GND

TYPE	POSITION	UNUSED ELEMENTS	VCC (PIN)	GND (PIN)
7400	6C,7A		14	7
7402	6D		14	7
7403	6A,5D,3B		14	7
7406	3E,4E	3E6	14	7
7408	1F	1F2	14	7
7474	6B		14	7
74H10	3F		14	7
74H51	4F		14	7
74H106	2E	2E1	5	13
9601	7B,5C		14	7
9602	2B,2F	2F2	16	8
UA733	1C			
8T20	2A		16	8
8T24	1E	1E1,1E2	16	8

(SHEET 1 OF 3)

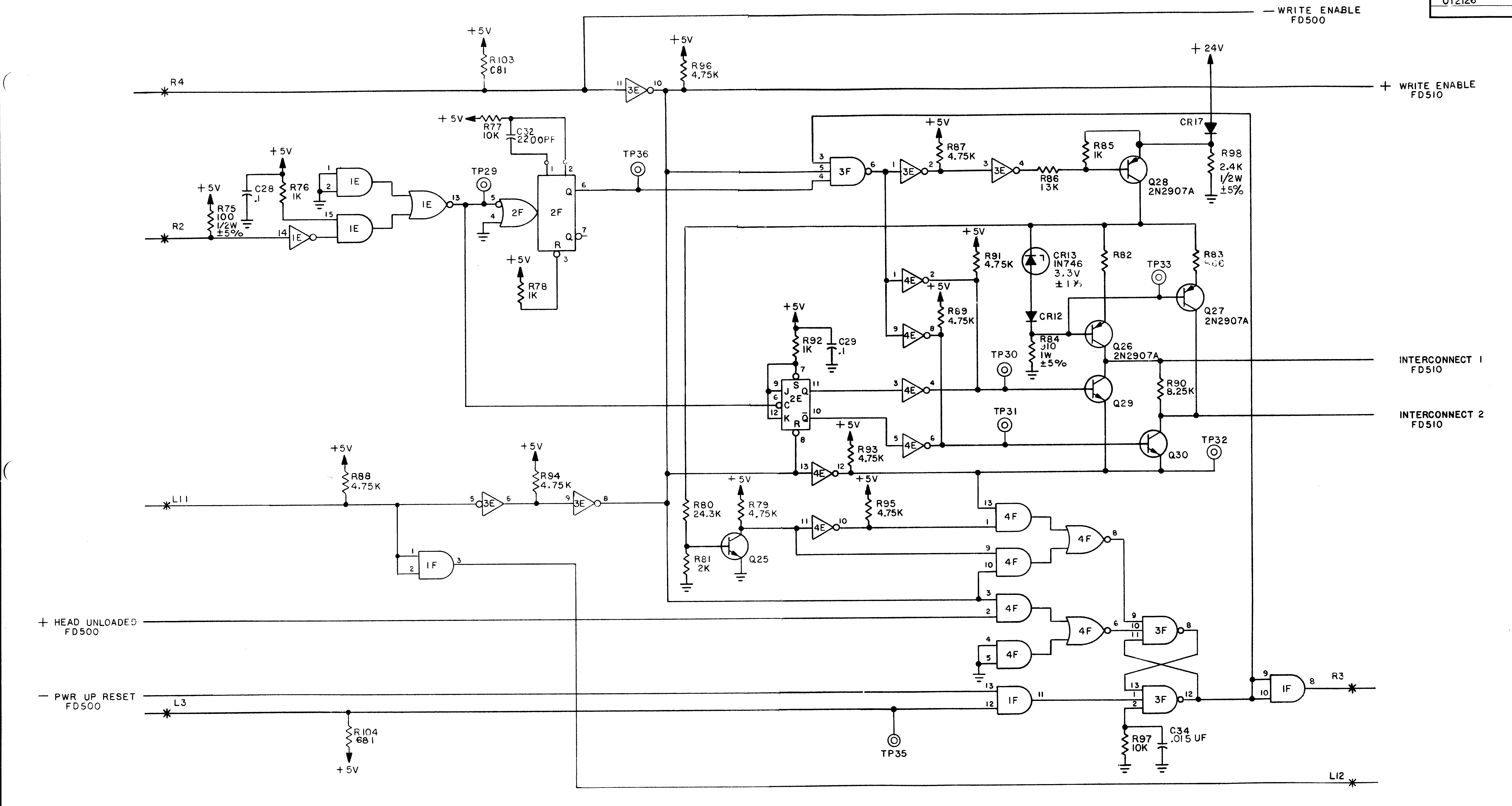
DATE	CHANGE NO.	DATE	CHANGE NO.	TECHNICAL APPROVAL
MAR 73	21051			
NOV 73	21081			
APR 74	21082			

MEMOREX EQUIPMENT GROUP
NAME SCHEMATIC DIAGRAM
READ/WRITE/ACCESS
DESIGN
DETAIL HP 2-8-73
CHECK 5-15-73
APPRO 5/73
012127

FD510

D

RELEASED FOR ASSEMBLY
012126



— WRITE ENABLE FD500
+ WRITE ENABLE FD510
R4
R2
L11
L3
L12
R3
+ HEAD UNLOADED FD500
— PWR UP RESET FD500
INTERCONNECT 1 FD510
INTERCONNECT 2 FD510
+5V
+24V
R103 C81
R96 4.75K
R77 10K
C32 2200PF
C28 .1
R76 1K
R75 100 1/2W ±5%
R78 1K
R87 4.75K
R86 13K
R85 1K
Q28 2N2907A
CR17
R98 2.4K 1/2W ±5%
CR13 1N746 3.3V
CR12
R84 1W ±5%
R82
R83
Q27 2N2907A
Q26 2N2907A
Q29
Q30
R90 8.25K
R91 4.75K
R89 4.75K
R92 1K
C29 .1
R93 4.75K
R95 4.75K
R88 4.75K
R94 4.75K
R80 24.3K
R81 2K
R79 4.75K
Q25
R104 681
R97 10K
C34 .015 UF
TP29
TP30
TP31
TP32
TP33
TP35
TP36

(SHEET 2 OF 3)

DATE	CHANGE NO.	DATE	CHANGE NO.	TECHNICAL APPROVAL
MAR73	21051			
NOV73	21081			
APR 74	21082			

MEMOREX EQUIPMENT GROUP

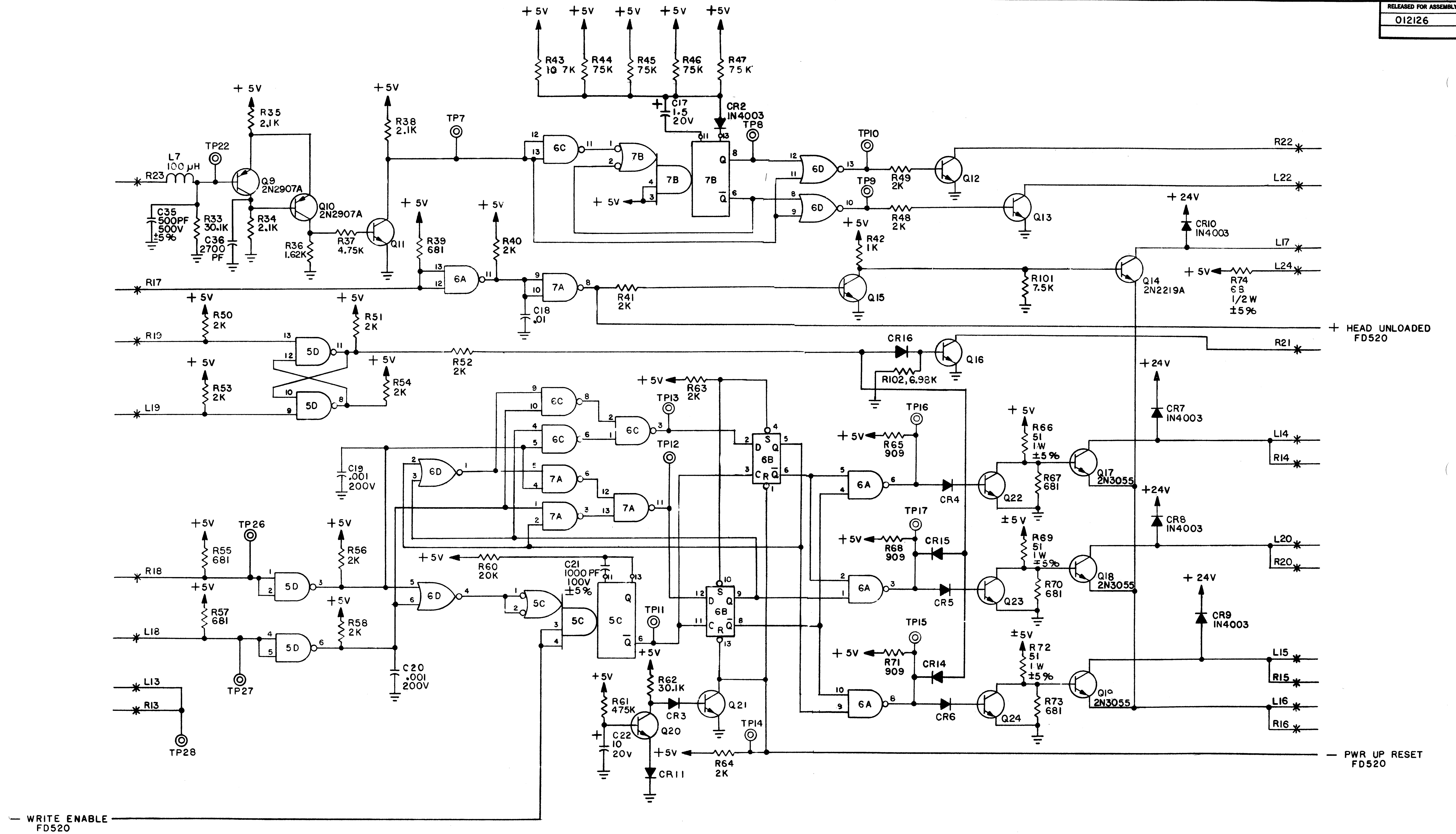
NAME: SCHEMATIC DIAGRAM READ/WRITE/ACCESS

DESIGN
DETAIL 1-8-73
CHECK 5-15-73
APPRO 5/73

D

012127

FD520


RELEASED FOR ASSEMBLY
012126
R22
L22
L17
L24
+ HEAD UNLOADED
FD520
R21
L14
R14
L20
R20
L15
R15
L16
R16
— PWR UP RESET
FD520
— WRITE ENABLE
FD520
R23
R17
R19
L19
R18
L18
L13
R13
Q9 2N2907A
Q10 2N2907A
Q11
Q12
Q13
Q14 2N2219A
Q15
Q16
Q17 2N3055
Q18 2N3055
Q19 2N3055
Q20
Q21
Q22
Q23
Q24
CR2 IN4003
CR7 IN4003
CR8 IN4003
CR9 IN4003
CR10 IN4003
L7 100 μH
C35 500PF 500V ±5%
C36 2700 PF
C17 1.5 20V
C18 .01
C19 .001 200V
C20 .001 200V
C21 1000PF 100V ±5%
C22 10 20V
R43 10.7K
R44 75K
R45 75K
R46 75K
R47 75K
R74 68 1/2W ±5%
R102, 6.98K
+24V
+5V

(SHEET 3 OF 3)

DATE	CHANGE NO.	DATE	CHANGE NO.	TECHNICAL	APPROVAL
MAR73	21051				
NOV73	21081				
APR 74	21082				

MEMOREX EQUIPMENT GROUP

NAME: SCHEMATIC DIAGRAM READ/WRITE/ACCESS

DESIGN

DETAIL: JP 2-8-73

CHECK

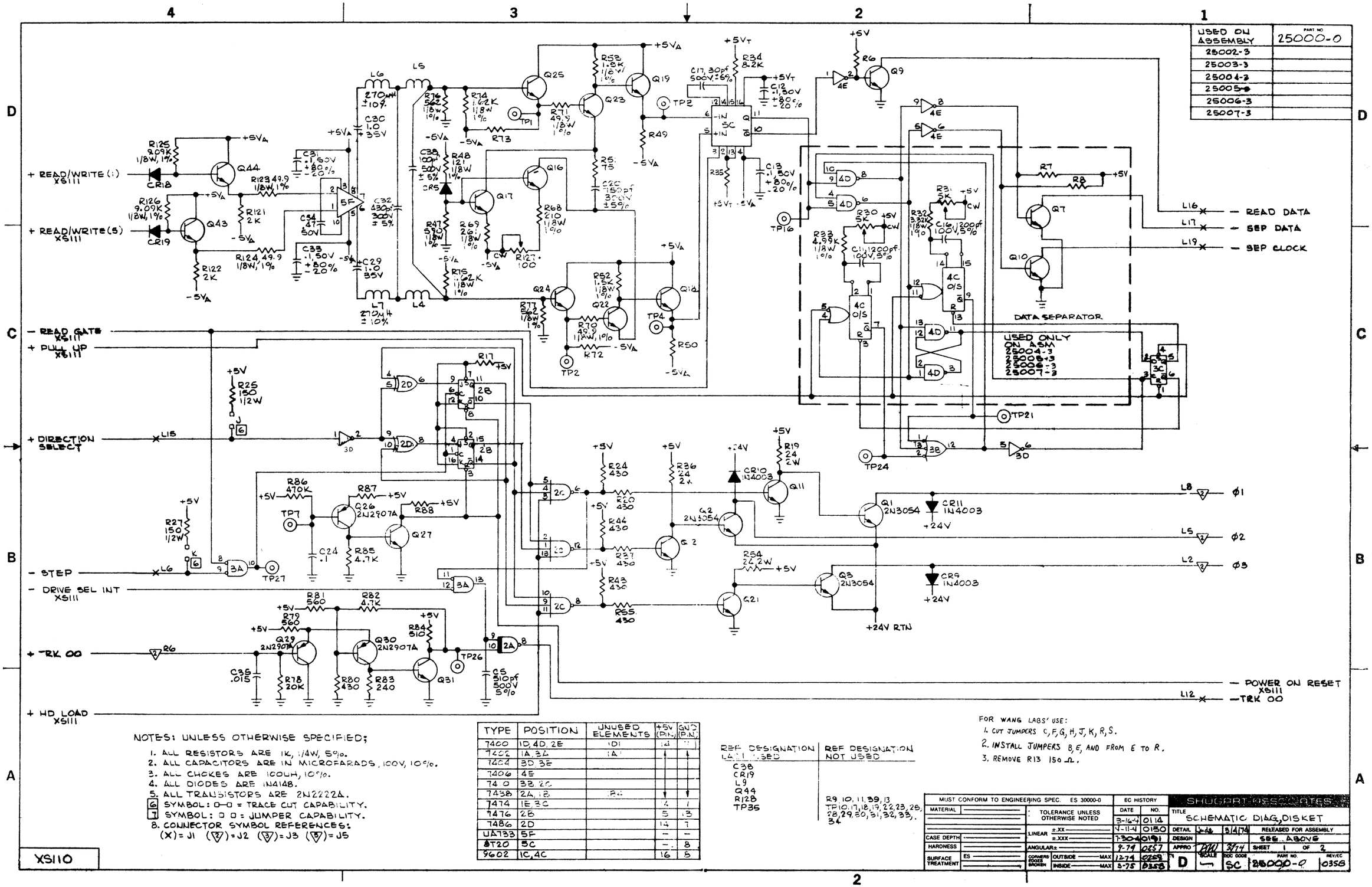
APPRO

D

012127

FD500

USED ON ASSEMBLY	PART NO 25000-0
25002-3	
25003-3	
25004-3	
25005-3	
25006-3	
25007-3	



NOTES: UNLESS OTHERWISE SPECIFIED;

1. ALL RESISTORS ARE 1K, 1/4W, 5%.
2. ALL CAPACITORS ARE IN MICROFARADS, 100V, 10%.
3. ALL CHOKES ARE 100uH, 10%.
4. ALL DIODES ARE IN4148.
5. ALL TRANSISTORS ARE 2N2222A.
6. SYMBOL: O—O = TRACE CUT CAPABILITY.
7. SYMBOL: O O = JUMPER CAPABILITY.
8. CONNECTOR SYMBOL REFERENCES: (X) = J1 (2) = J2 (3) = J3 (5) = J5

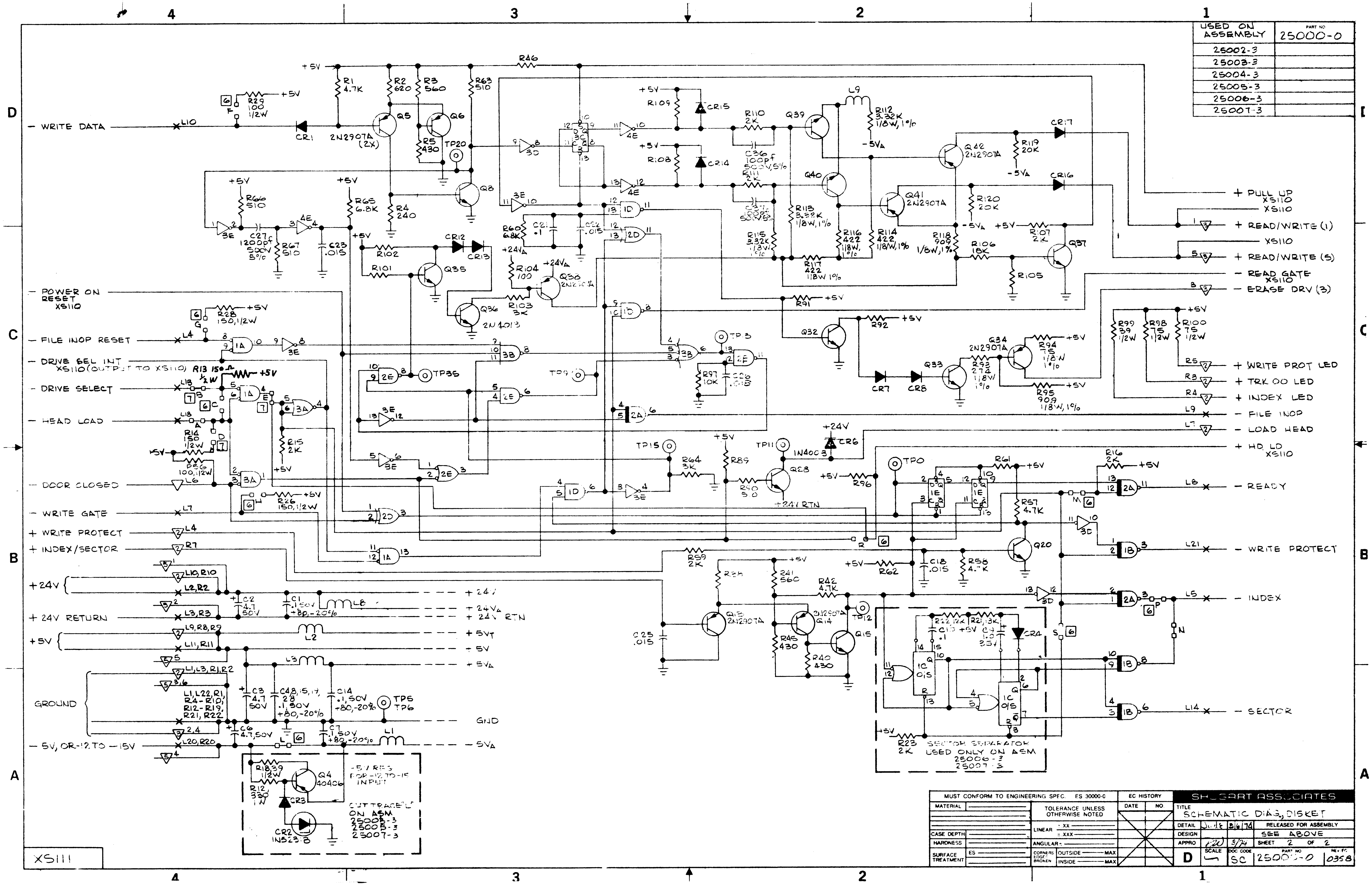
TYPE	POSITION	UNUSED ELEMENTS	+5V (PIN)	GND (PIN)
7400	1D, 4D, 2E	1D1	14	7
7402	1A, 3A	1A1	↓	↓
7404	3D, 3E			
7406	4E			
74 0	3B, 2C			
7438	2A, 1B	1B4	↓	↓
7414	1E, 3C		4	1
7476	2B		5	13
7486	2D		14	7
UA733	5F		—	—
8T20	5C		—	8
9602	1C, 4C		16	5

REF DESIGNATION LAST USED	REF DESIGNATION NOT USED
C38	
CR19	
L9	
Q44	
R128	R9, 10, 11, 39, 13
TP35	TP10, 17, 18, 19, 22, 23, 25, 28, 29, 30, 31, 32, 33, 34

FOR WANG LABS' USE:
1. CUT JUMPERS C, F, G, H, J, K, R, S.
2. INSTALL JUMPERS B, E, AND FROM E TO R.
3. REMOVE R13 150 Ω.

MUST CONFORM TO ENGINEERING SPEC. ES 30000-0		EC HISTORY		SHUGART ASSOCIATES
MATERIAL	TOLERANCE UNLESS OTHERWISE NOTED	DATE	NO.	TITLE SCHEMATIC DIAG, DISKET
	LINEAR ±.XX	3-16-4	0114	
	±.XXX	4-11-4	0130	DETAIL 5/4/74 RELEASED FOR ASSEMBLY
CASE DEPTH	ANGULAR±	7-30-4	0191	DESIGN SEE ABOVE
HARDNESS		9-79	0257	APPRO SHEET 1 OF 2
SURFACE TREATMENT ES	CORNERS EDGES BROKEN OUTSIDE MAX INSIDE MAX	12-74	0259	SCALE — DOC CODE SC PART NO. 25000-0 REV/EC 0358
		5-75	0358	D

XS110


USED ON ASSEMBLY
25000-0
25002-3
25003-3
25004-3
25005-3
25006-3
25007-3
WRITE DATA
POWER ON RESET XS110
FILE INOP RESET
DRIVE SEL INT XS110 (OUTPUT TO XS110)
DRIVE SELECT
HEAD LOAD
DOOR CLOSED
WRITE GATE
+ WRITE PROTECT
+ INDEX/SECTOR
+24V
+ 24V RETURN
+5V
GROUND
– 5V, OR -12 TO -15V
+ PULL UP XS110
XS110
+ READ/WRITE (1)
XS110
+ READ/WRITE (5)
– READ GATE XS110
– ERASE DRV (3)
+ WRITE PROT LED
+ TRK 00 LED
+ INDEX LED
– FILE INOP
– LOAD HEAD
+ HD LD XS110
– READY
– WRITE PROTECT
– INDEX
– SECTOR
SECTOR SEPARATOR USED ONLY ON ASM 25006-3 25007-3
-5V REG FOR -12 TO -15 INPUT
CUT TRACE "L" ON ASM 25003-3 25005-3 25007-3
XS111
MUST CONFORM TO ENGINEERING SPEC. ES 30000-0
MATERIAL
CASE DEPTH
HARDNESS
SURFACE TREATMENT
TOLERANCE UNLESS OTHERWISE NOTED
LINEAR ±.XX ±.XXX
ANGULAR±
CORNERS EDGES BROKEN
OUTSIDE MAX
INSIDE MAX
EC HISTORY
DATE
NO.
SHUGART ASSOCIATES
TITLE SCHEMATIC DIAG., DISKET
DETAIL 3/6/74
DESIGN
APPRO 3/74
RELEASED FOR ASSEMBLY
SEE ABOVE
SHEET 2 OF 2
D
SCALE
DOC CODE SC
PART NO 25000-0
REV-EC 0358