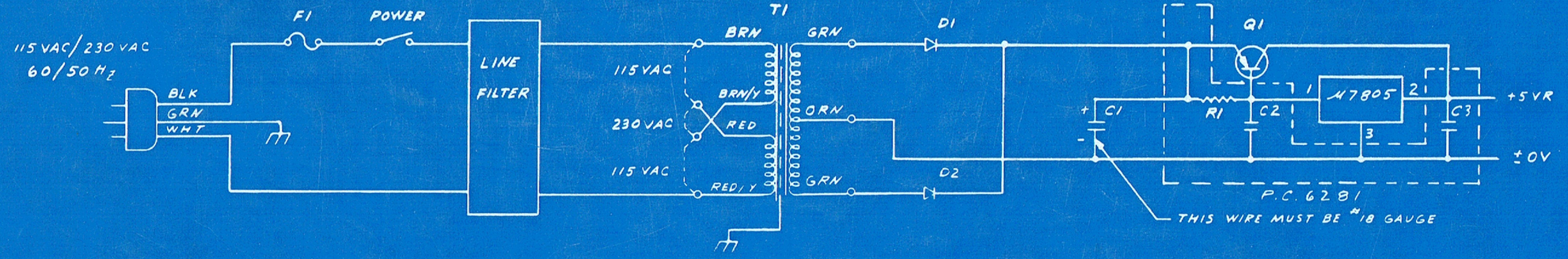
PRODUCT SERVICE

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

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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
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
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
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

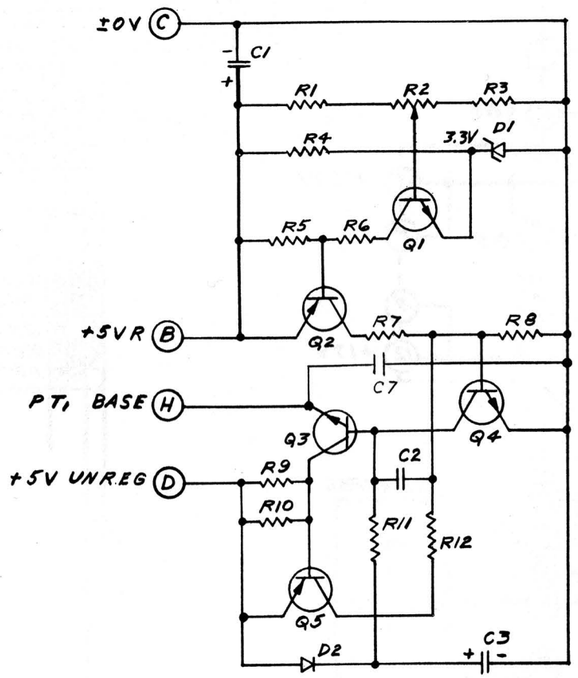
*This list does not necessarily contain all drawings of a particular peripheral due to the unavailability of some drawings.

DO NOT SCALE

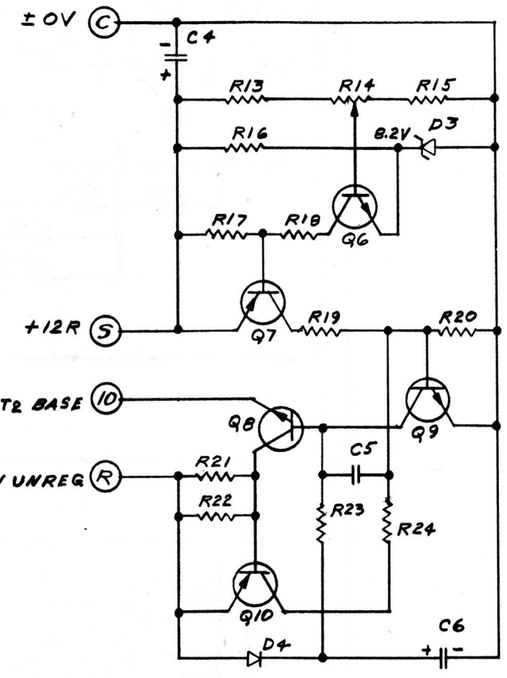
HOLE LEGEND		
DRILLED OR PUNCHED HOLE TOLERANCES:	HOLE DIA.	TOL.
	.0135 to .125	+.003 −.001
	.126 to .250	+.004 −.001
	.251 to .500	+.005 −.001

IDENT.	DESCRIPTION	QTY.
A		

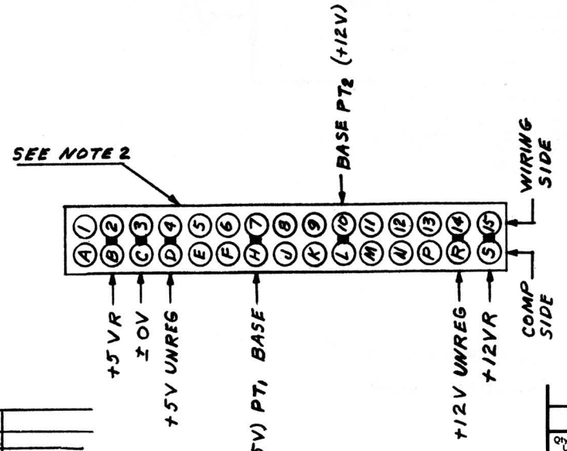
+5 V REGULATOR



+12 V REGULATOR



COMP.	SIZE / TYPE	QTY
R1, 13	220 Ω	2
R2, 14	1K POT.	2
R3, 15	1-5 K	2
R4	100 Ω ½W	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 ½W	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	IN746A	1
D2, 4	IN3253	2
Q1, 4, 6, 9	RCA35224	4
Q2, 5, 7, 10	GT544	4
Q8	2N5189	1
D3	IN756A	1
R9	2.7 Ω	1
R16	330Ω 10%	1
Q3	2N3725	1
C7	.01μF 25V	1
R11	100Ω ½W	1
C5	.1μF 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 R10-12	LEG	4-24-70
2	PER ECN 2010 R16 WAS 330Ω ½W NOW 330Ω ¼W 10% APP. RJT	RJT	3/15/71
3	PER ECN #3104 Q3 WAS 2N5189 APP'D SKH	RB	8/2/72
4	PER ECN #3180 ADDED C7 CAP. APP'D. SKH	RB	8-25-72
5	PER ECN #3359 R11 WAS 330Ω ¼W APP'D SKH	RB	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
			FINISH

MODEL NO. 700 SYSTEM
SEE ENGRG SPECIFICATIONS No.
TOL. EX. AS NOTED .XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1°30' FINISH 128 √
SCALE SHT OF

MATERIAL DESCRIPTION

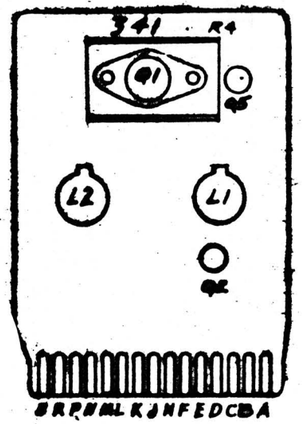
BY	DATE	APPROVED BY	DATE
DWN RB	9/29/69	E ENGR SKH	3/13/70
CHK RJT	3/13/70	M ENGR	
E. C. CONTROL		MFG ENGR	

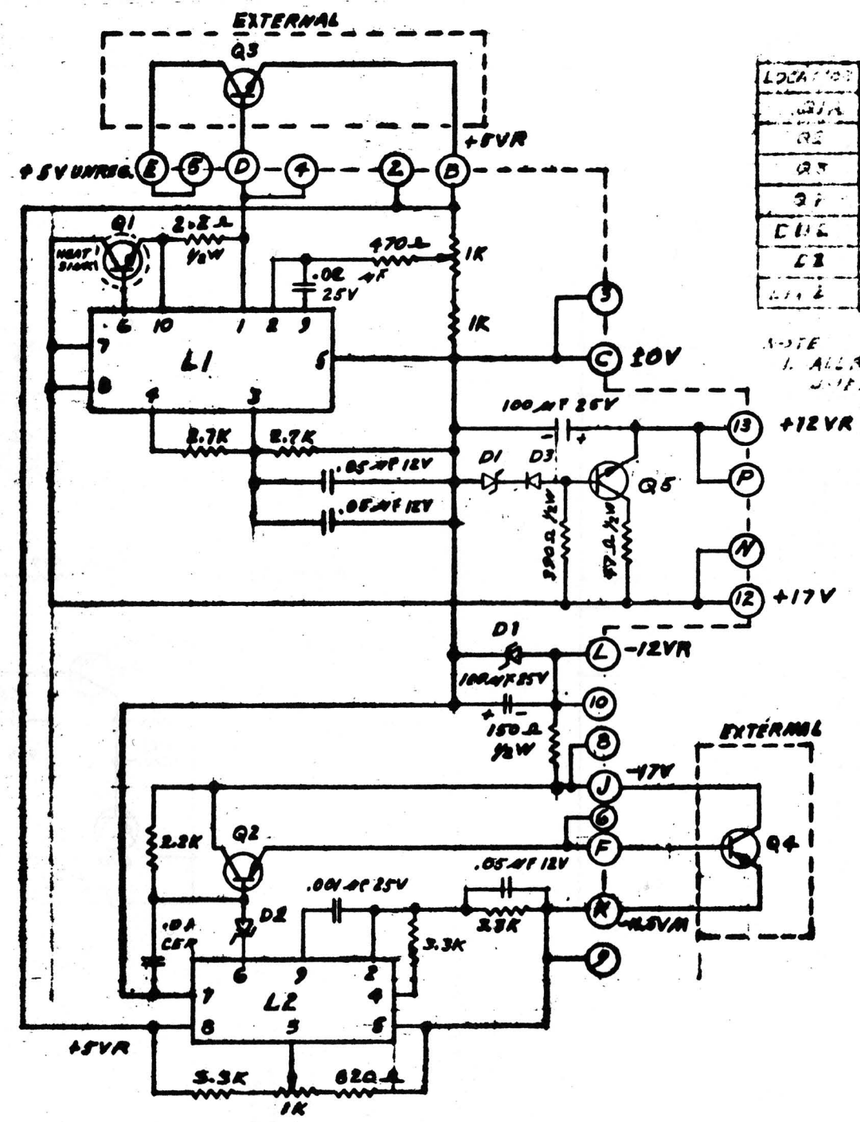
TITLE +5V REGULATOR P.C.** 335
+12V REGULATOR

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
	C	6046	5

LOCATION	TYPE	WANGLAB. No.	QTY
Q1	40250W	375-1028	1
Q2	67549	375-1017	1
Q3	40251	375-1008	1
Q4	2N6246	375-0029	1
D1	IN4742	380-2121	2
D2	IN749A	380-2042	1
L1,2	723	376-0066	2
Q3	SK DIODE	380-1001	1
Q5	36224	375-1001	1

NOTE:
1. ALL RESISTORS ARE ¼ W UNLESS SPECIFIED OTHERWISE.

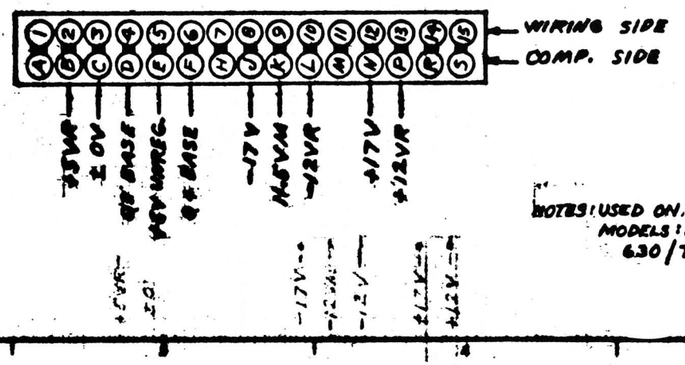




LOCATION	WANGLAB No.	QTY
Q1	375-1028	1
Q2	375-1017	1
Q3	375-1008	1
Q4	375-0029	1
D1,2	380-2121	2
D2	380-2042	1
L1,2	376-0066	2

NOTE
1. ALL RESISTORS ARE ¼ W UNLESS SPECIFIED OTHERWISE.

LTR	DATE	APPR	REVISION
1	1/1		PER ECN #2625 Q1 WAS 40250 APP:- SKH
2	1/1		PER ECN #2726 Q4 WAS 2N1840 APP:- SKH
3	2/2		PER ECN #2835 RESISTOR AT L1-3 WAS 4.7K APP:- SKH
4	4/3		PER ECN #3161 ADDED REG. CIRCUIT TO +12V APP:- SKH
5	5/4		REVISED PER ECN #3563 APP:D SKH
6	6/4		REVISED PER ECN #3673 APP: D. SKH
7	7/4		REVISED PER ECN #3571 APP: SKH
8	8/5		REVISED PER ECN #271, #27M APP: SKH



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

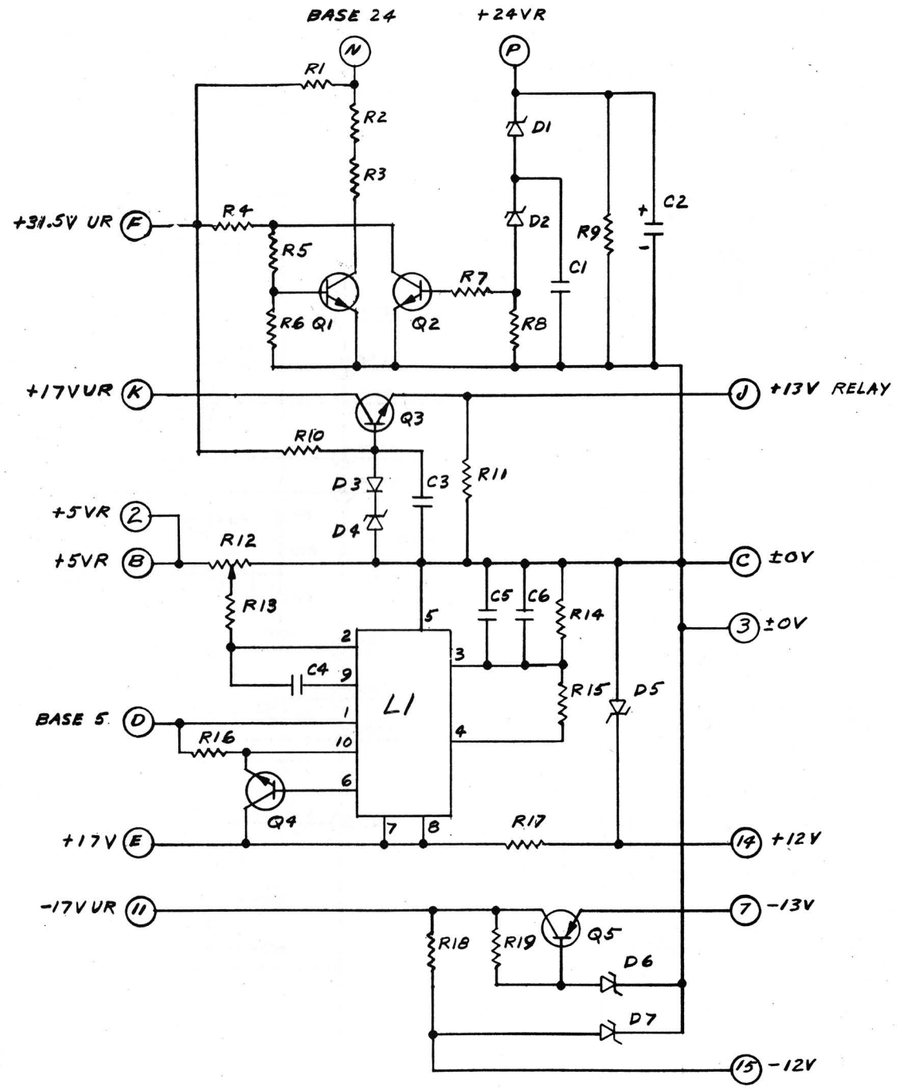
E-REV. 5

TOL. EX. AS NOTED .XX ±.010 .XXX ±.005	FRAC. ±1/ ANG. ±	WANG LABORATORIES INC. TEWKSBURY, MASS.	
MATERIAL		MODEL NO. SEE NOTE #1	DRAWN JB 1/19/71 APP. SKH
FINISH	SCALE		CHECKED SW 3/24/71 APP.
		TITLE: SCHEMATIC LOGIBLOC #341 POWER SUPPLY REGULATOR	
		W.O. NO.	DWG. NO. C 5999-1 REV. 8

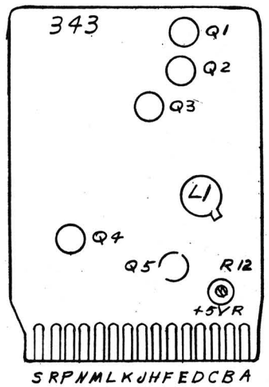
1-6650

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	1N579A 12V	380-2120	2
D3	SIL DIODE	380-1001	1
D4, 6, 5, 7	1N4742 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.	

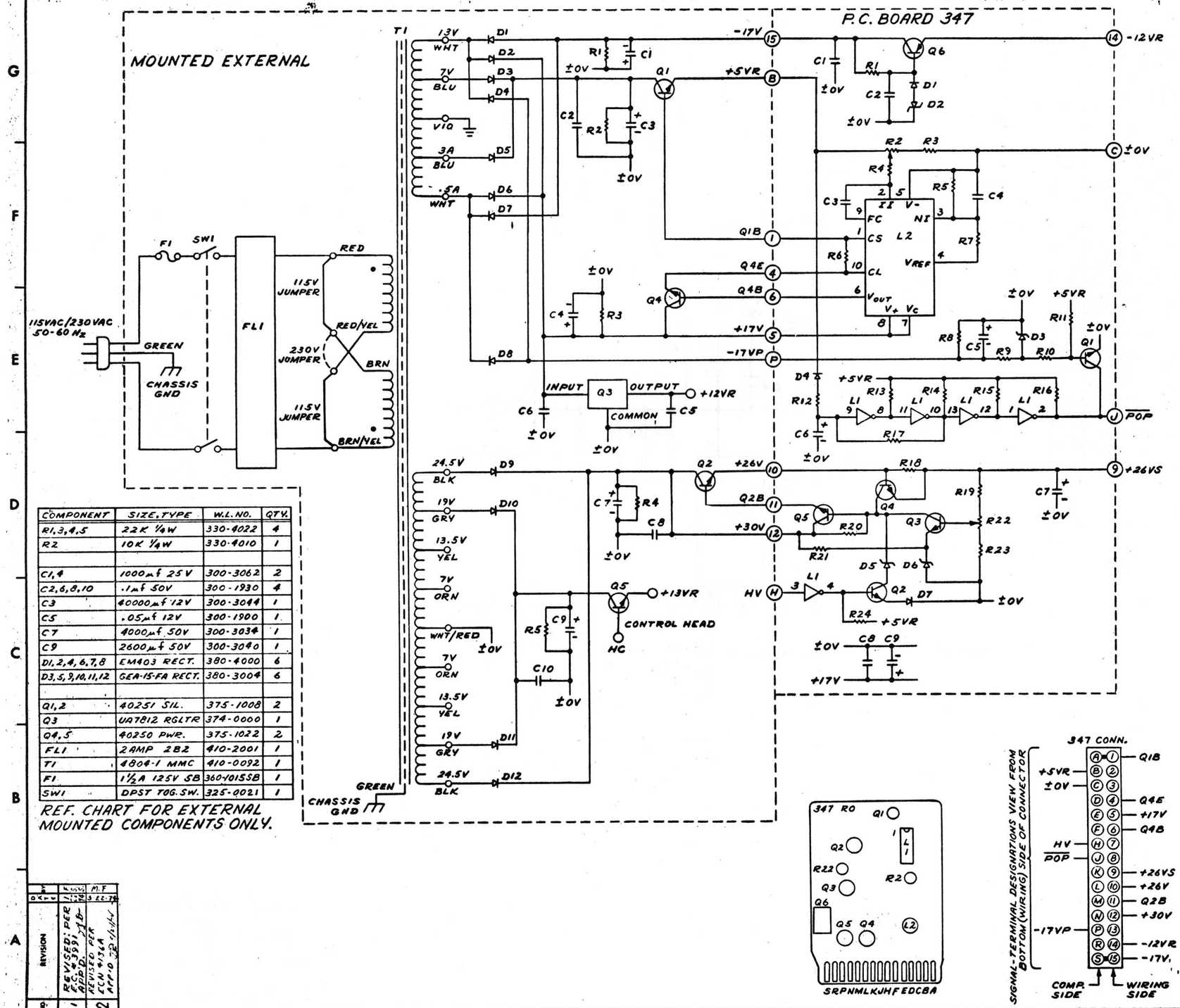
TITLE SCHEMATIC LOGIBLOC # 343
POWER SUPPLY BOARD

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

1-88170 ON BMC

XI

DO NOT SCALE



COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1,3,4,5	22K 1/8W	330-4022	4
R2	10K 1/4W	330-4010	1
C1,4	1000mf 25V	300-3062	2
C2,6,8,10	.1mf 50V	300-1930	4
C3	40000mf 12V	300-3044	1
C5	.05mf 12V	300-1900	1
C7	4000mf 50V	300-3034	1
C9	2600mf 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 2BZ	410-2001	1
T1	4804-1 MMC	410-0092	1
F1	1½A 125V SB	360-01558	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	IN4742 12V ZEN.	380-2121	3
D4	30V SIL.	380-1001	1
D5	IN756A 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

NO.	REVISION	BY	DATE
1	REVISED: PER E.C.#3991 ADD'D. 2A	F.S.S.	10-25-73
2	REVISED PER ECN #3569 ADD'D. 12	M.F.	11-22-74

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 741 2241 | DRAWN F.S.S. 10-25-73 | APP. | CHECKED | APP. | 11-14-73

TITLE SCHEMATIC LOGIBLOC ® 347 POWER SUPPLY, REGULATOR FOR THERMAL PRINTER

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

D 6473

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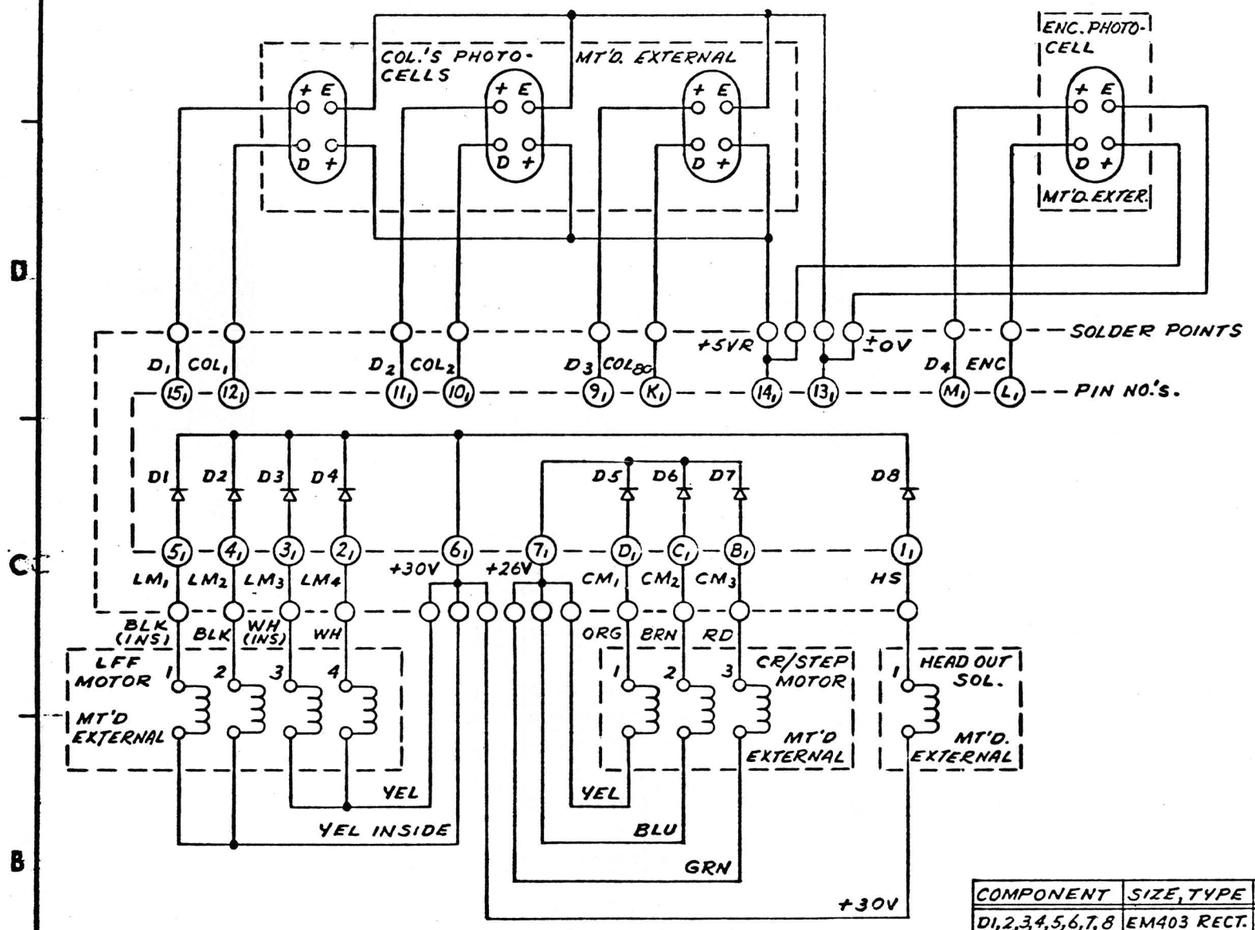
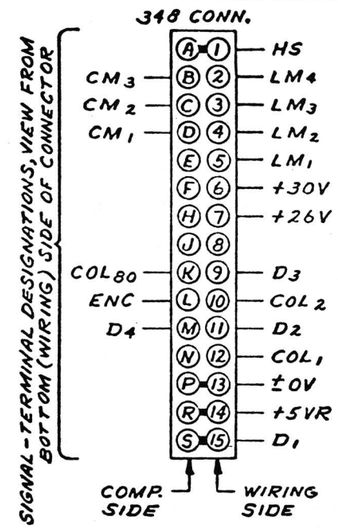
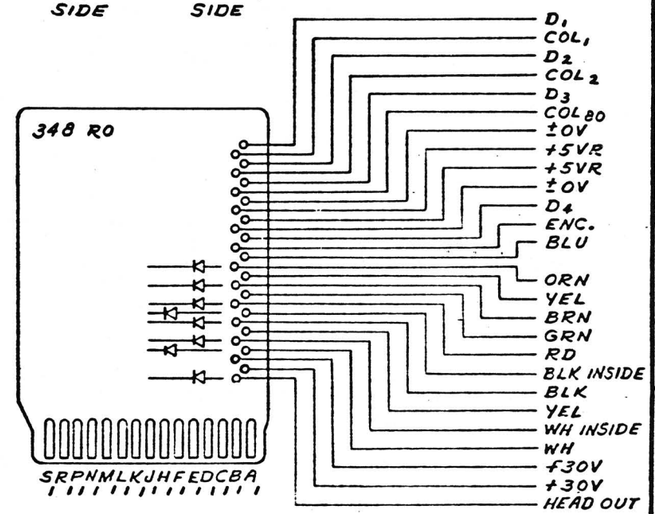
DO NOT SCALE





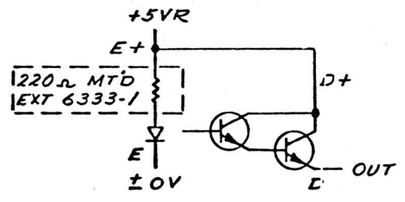
HOLE LEGEND		
DRILLED OR PUNCHED HOLE TOLERANCES:	HOLE DIA.	TOL.
	.0135 to .125	+.003 −.001
	.126 to .250	+.004 −.001
	.251 to .500	+.005 −.001

IDENT.	DESCRIPTION	QTY.
A		



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
NO.		

WANG PART NO.	ITEM	QTY.	NAME	MATERIAL	DESCRIPTION
SUF. PRE.	FIRST USED ON	ASSY USED ON	WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.		

	BY	DATE	APPROVED BY	DATE
DWN F.S.S.	10-29-73	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

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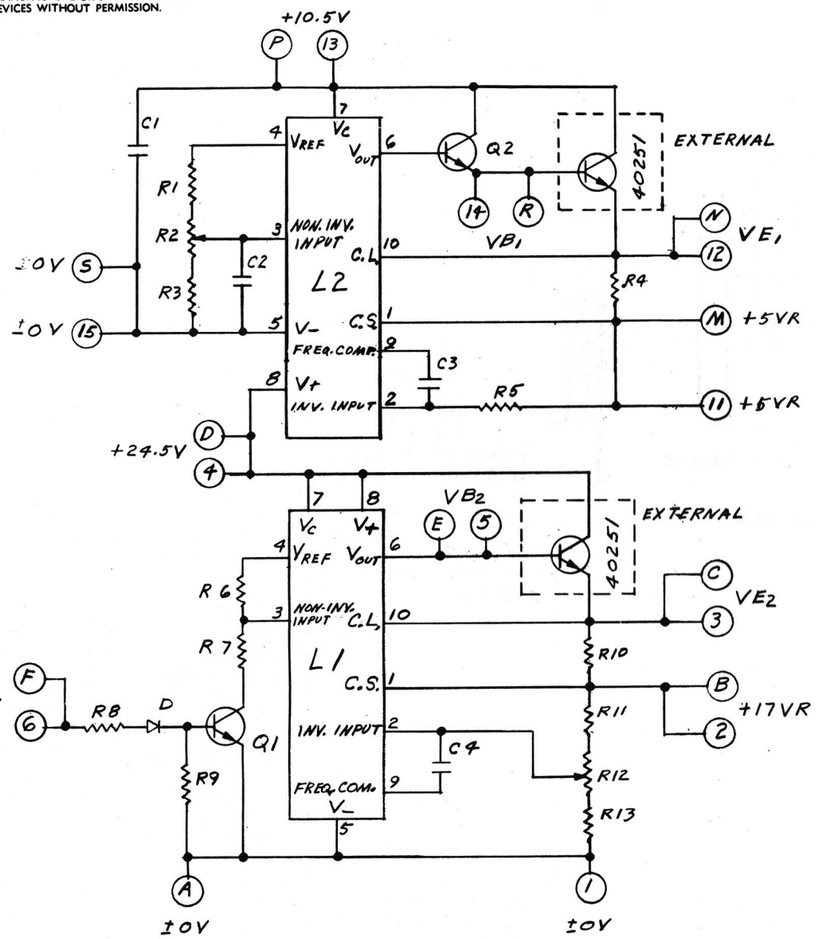
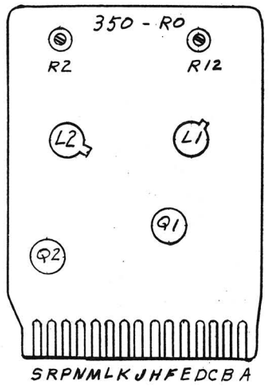


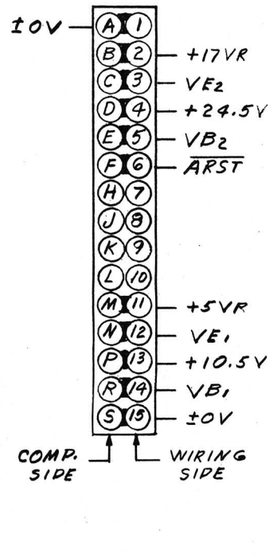


LOCATION	TYPE	W.L. PART No.	QTY
L1, 2	723	376-0066	2

COMP.	SIZE/TYPE	W.L. PART NO	QTY
R1, 13	1.5K 1/4W	330-3015	2
R2, 12	1K POT	336-0003	2
R3	4.7K 1/4W	330-3047	1
R4, 10	.25Ω 5% 3 W	339-0017	2
R7, 11	1K 1/4W	330-3010	2
R8	10K 1/4W	330-4010	1
R9	47K 1/4W	330-4047	1
R5	3.3K 1/4W	330-3033	1
R6	680Ω 1/4W	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	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		10-1-73	E ENGR SKH	10/11/73
CHK			M ENGR	
E. C. CONTROL			MFG ENGR	

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

TITLE SCHEMATIC 350 PROGRAMABLE POWER SUPPLY

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
	C	6490-1	D

NO.	REVISION	BY	DATE

DO NOT SCALE

.3A-5B-230VAC
.6A-5B-115VAC

F1 2A

MMC 4991

BLK
BLK/W
BRN
BRN/W
RED
RED/W
RED
YEL
YEL/W
YEL
GRN

IN3255 IN3255 IN3255 IN3255

10K

6000MFD 20VDC

6000 MFD 20 VDC

10K

NOTE: DASHED LINES SHOW 230VAC OPERATION.

+18V 1.5A
ARST
±0V
+9V 1A
±0V

C1

R1 D Q1

R2 R3 R4 R5 R6 R7 C2

L1

V2 40251

+12VR

351

+18V C3

C4

R8 R9 C5 R10 R11 R12 C6

L2

V1 40251

+5VR

WANG 351
R9 R8 L2 L1 Q1
S R P N M L K J H F E D C B A

±0V	A 1	±0V
+12VR	B 2	+12VR
VE_2	C 3	VE_2
+18V 1.5A	D 4	+18V 1.5A
VB_2	E 5	VB_2
$\overline{ARST}$	F 6	$\overline{ARST}$
	H 7	
	J 8	
	K 9	
	L 10	
+5VR	M 11	+5VR
VE_1	N 12	VE_1
+9V 1A	P 13	+9V 1A
VB_1	R 14	VB_1
±0V	S 15	±0V

COMP. SIDE — WIRING SIDE

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

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	DATE	REVISION	NO.

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 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	DRAWING NUMBER
		C	6467-1

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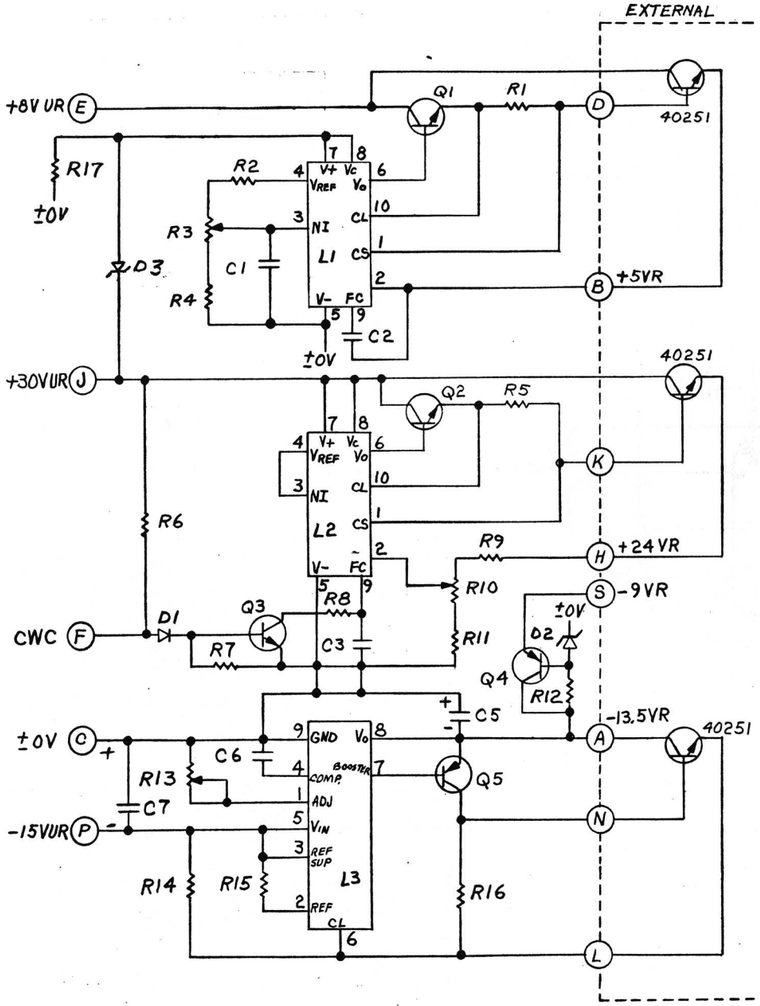
DO NOT SCALE



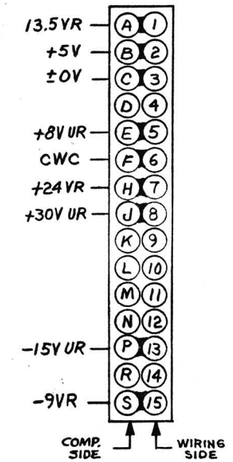
LOCATION	TYPE	W.L. PART NO.	TERM. NO. ±0V	TERM. NO. Vcc+5V	QTY.
L1,2	723	376-0066	5	2	2
L3	LM304	376-0134	9		1

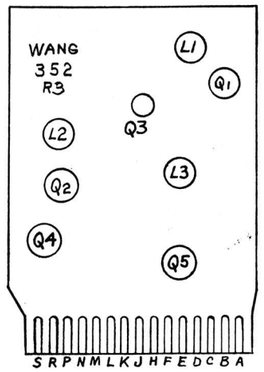
COMPONENT	SIZE/TYPE	W.L.PART NO.	QTY.
R1	1Ω 1/2 W	331-0010	1
R2	820Ω 1/4W	330-2082	1
R3,10	1K TRIM POT	336-1001	2
R4,11	3.3K 1/4W	330-3033	2
R6,9	8.2K 1/4W	330-3082	2
R7	1K 1/4W	330-3010	1
R8,15	2.2K 1/4W	330-3022	2
R12	220Ω 1/4W	330-2022	1
R13	10K TRIM POT	336-1010	1
R14	.25Ω 3W	334-0017	1
R16	100Ω 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 .0014f TO .0024f APP'D:	2-5-74	BK
2/1	REV. PER E.C.N.# 4227 APP'D:	6 DEC 74	
3/2	REV. PER ECN-4606, 4606A. ADDED D2 & R17. APP'D: R. Rufer	2-18-75	BK

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. 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 125
			SCALE — SHT 4 OF 7

MATERIAL	DESCRIPTION

BY	DATE	APPROVED BY	DATE
DWN BK	12-26-73	E ENGR	2-19-74
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

BUFFER STROBE (A1) · DAS (B2) · GISN (I2) · RSP (I1/2) · GOS (I1/2) · RUB OUT (H1) · GO (F2) · STO · WKB (K2) · TRANS (J2) · GKBD (D2) · GPRM (C2) · RAC (G2) · COT (P1) · XBR (E2) · RST (B1) · XBP (S2) · STP · D10 (I1) · GI0B0F (S1) · GI0B1F (I2) · GI0B2F (J2) · SW · GI0A (H1) · GI0B3F (R1) · GI0A0F (I3) · GI0A1F (M1) · GI0A2F (I2) · GI0A3F (T1) · I0B1 (G1) · I0B3 (S1) · GISO (J1) · PCD1 (I4) · PCD2 (D1) · PCD3 (E2) · PCD4 (E3) · PCD5 (F1) · PCD6 (F2)

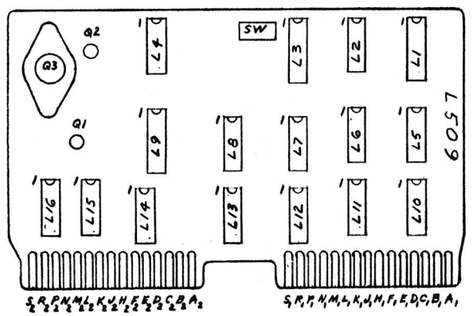
L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17

.01 ±0V · .003 · .001 MYLAR · .0022 MYLAR · 1K · +5VR · 190PF · ±0V

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

+5V · 1.K · 2.2K · 220Ω ½W · 10K ±0V · 2.2K · TAPE DRIVE (M2) · 8.2K · Q1 · Q2 · Q3 · ±0V · SOD (S2) · -12V (R2)

COMPONENT LAYOUT



LOCATION	TYPE	WANG LAB. No.	TERM. No. Vcc +5VR	TERM. No. ±0V	QTY
L5, 7	SN7400N	376-0002	14	7	2
L9, 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 ¼W EXCEPT AS NOTED.
2. ALL DIODES ARE 380-1001 (QTY 8)

B1 · C1 · 10 MF 16VDC · 10 MF 16VDC · .10 · .05 · .05 · .05 · .05 · .05 · .05 · .05 · 14 +5VR · 13/2 IOV

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

CONN. 1

	A 1	D10
+5VR	B 2	PCD3
±0V	C 3	PCD4
PCD2	D 4	BUFFER STROBE
	E 5	I0B3
PCD5	F 6	I0B1
RUB OUT	H 7	GI0A3F
GISO	J 8	RST
	K 9	D1
	L 10	D4
GI0A1F	M 11	D8
GI0A	N 12	GI0A2F
COT	P 13	GI0A0F
GI0B3F	R 14	PCP1
GI0B0F	S 15	D2

CONN. 2

GI0B0F	A 1	GI0B1F
GI0B1F	B 2	GI0B2F
GPRM	C 3	GI0B2F
GKBD	D 4	PCD6
XBR	E 5	XBP
	F 6	RAC
	H 7	GO
	J 8	DAS
WKB	K 9	TRANS
	L 10	GISN
TAPE DRIVE	M 11	GOS
	N 12	RSP
	P 13	±0V
-12V	R 14	+5VR
SOD	S 15	

COMP SIDE · WIRING SIDE

NO.	REVISION	BY	DATE
1	PER ECN 2786 ADDED DIODE AT G5 AND I5 L11, 12, 13 WAS 9935 APP.: JKM	DB	3-1-72
2	PER ECN 2813 CHANGED RESISTOR VALUES IN TAPE DRIVE APP.: JKM	DB	3-14-72
3	REVISED PER ECN 3404 APP.: D Sun	DB	11-30-72

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

IDENT	QTY	NAME	MATERIAL	DESCRIPTION
			DR	DATE 3/23/71
			CHK	DATE
			APPD G.T.C	DATE 4/23/71

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

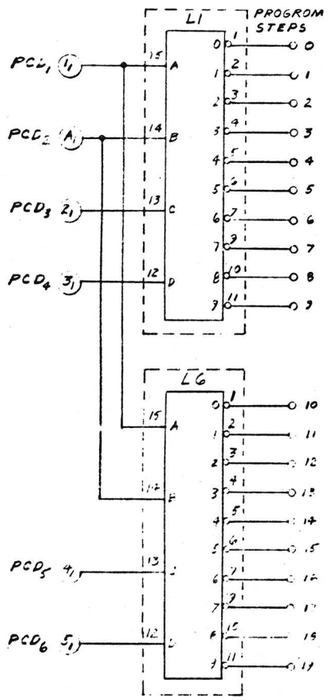
MODEL No. 703 · W.O. No. · SCALE · SHEET OF

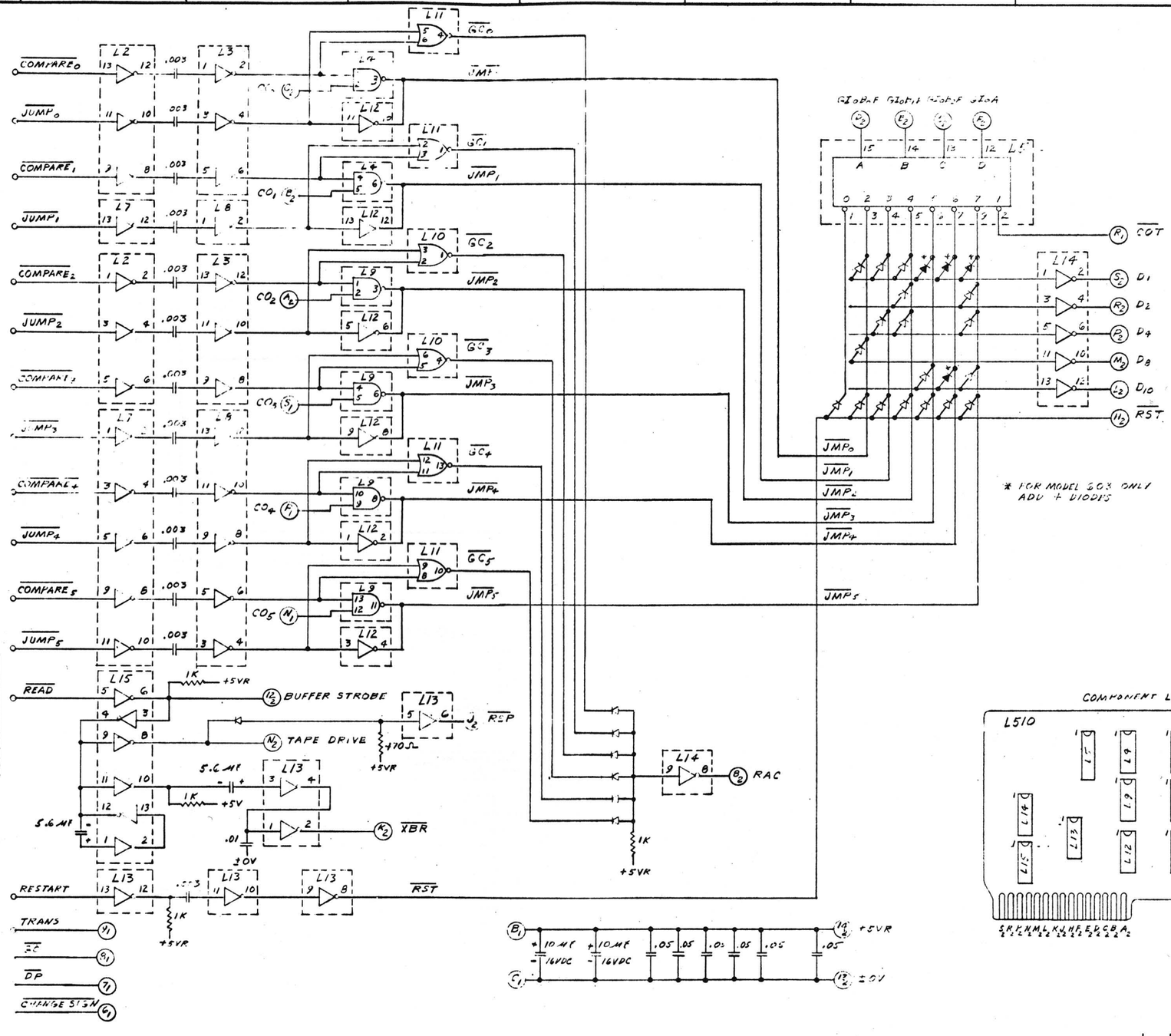
TITLE SCHEMATIC LOGIBLOC, TAPE READER # L509

PART NUMBER	REV	SIZE	DRAWING NUMBER
	3	D	6109

D 6109

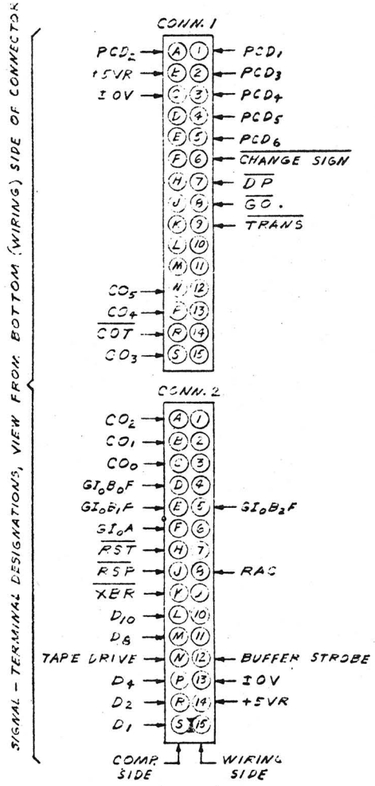
DO NOT SCALE





LOCATION	TYPE	WANG LAB. No	TERM. No Vcc +5VR	TERM. No ±0V	QTY
L10, 11	SN7402N	376-0016	14	7	2
L2, 7	SN7404N	376-0210	14	7	2
L1, 5, 6	SN7415V	376-0223	16	8	3
L4, 9	MC846	376-0323	14	7	2
L3, 8, 12, 13, 14, 15	9935	376-0225	14	7	6

NOTE
1. ALL DIODES ARE W. 380-1201 (QTY 12 + ?
2. ALL RESISTORS ARE ¼ W.



NO.	REVISION	BY	DATE
1	REVISED PER L15 CHANGE 376-0225 AND GATE	[illegible]	[illegible]

IDENT	QTY	NAME	MATERIAL	DESCRIPTION

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

MATERIAL

FINISH

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

DR [illegible] DATE [illegible]

CHK DATE

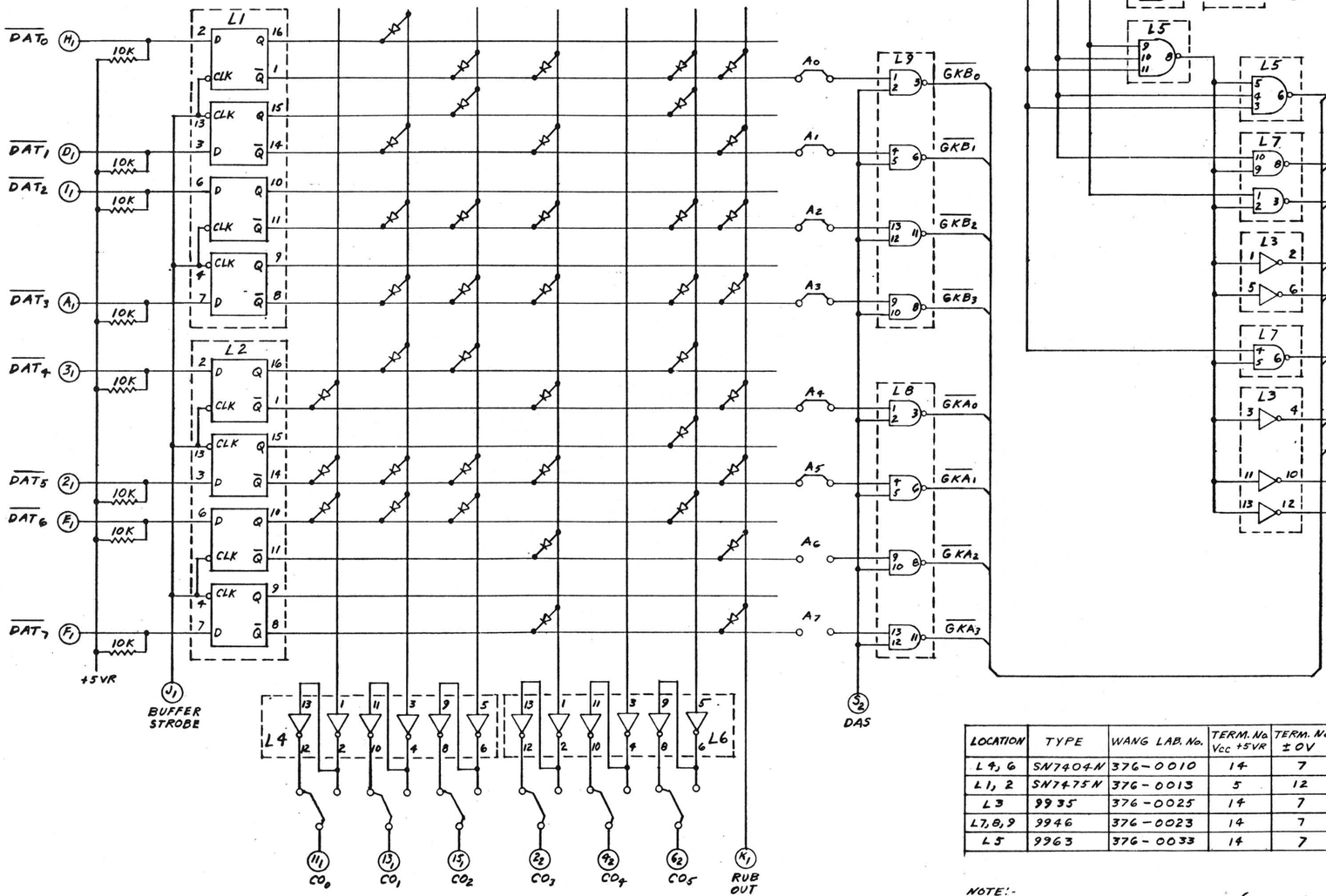
APPD [illegible] DATE 1/[illegible]/[illegible]

MODEL No. [illegible] W.O. No. SCALE [illegible] SHEET OF

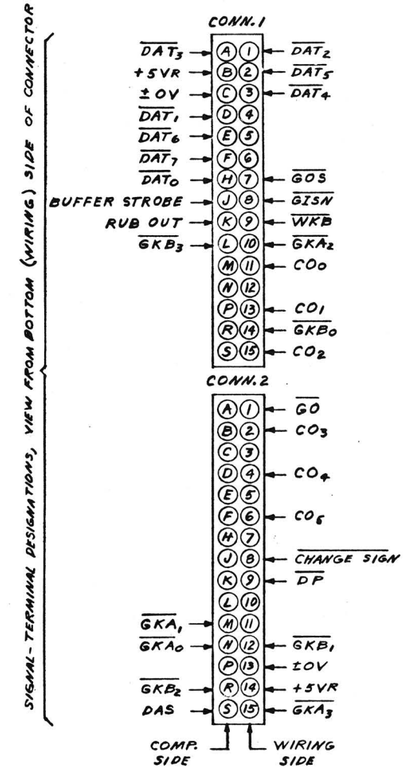
TITLE SCHEMATIC LOGIC, TAPE READER [illegible] L510

PART NUMBER | REV | SIZE D | DRAWING NUMBER 6110

DO NOT SCALE

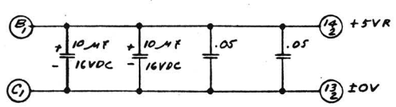


SIGNAL-TERMINAL DESIGNATIONS, VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR

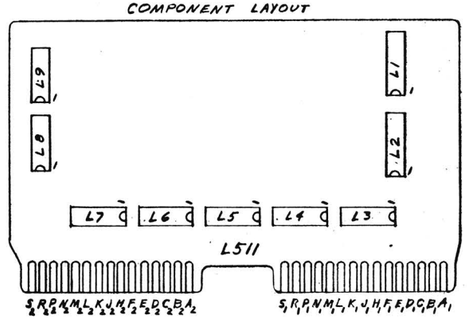


LOCATION	TYPE	WANG LAB. No.	TERM. No Vcc +5VR	TERM. No ±0V	QTY
L4, 6	SN7404N	376-0010	14	7	2
L1, 2	SN7475N	376-0013	5	12	2
L3	9935	376-0025	14	7	1
L7,8,9	9946	376-0023	14	7	3
L5	9963	376-0033	14	7	1

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



COMPONENT LAYOUT



REVISION	BY	DATE
NO.		

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

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

MATERIAL

FINISH

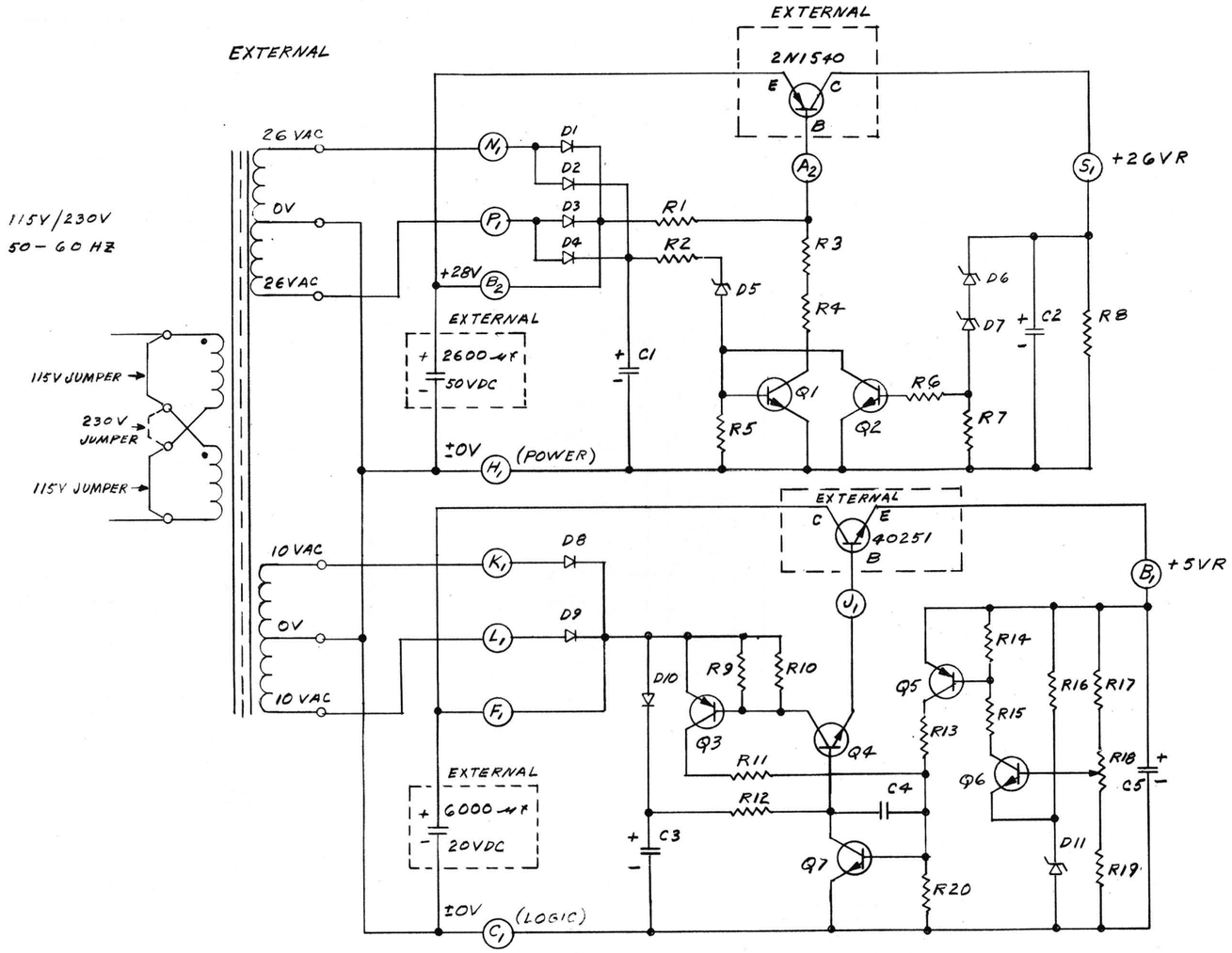
WANG LABORATORIES, INC. TEWKSBURY, MASS. U. S. A.

MODEL No. 703 W.O. No. SCALE 1/1 SHEET OF

TITLE SCHEMATIC LOGIBLOC, TAPE READER # L511

PART NUMBER | REV | SIZE D | DRAWING NUMBER 6111

D 6111



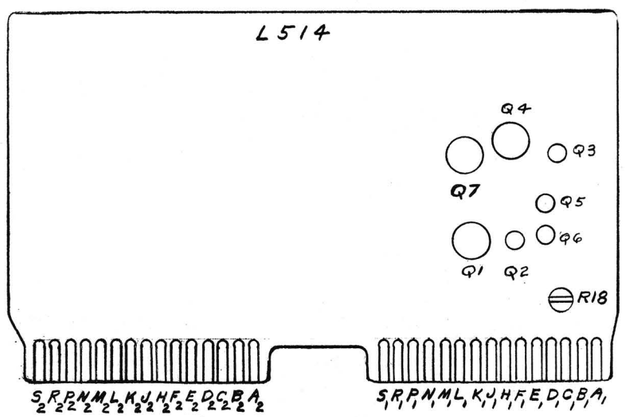
COMP.	SIZE/TYPE	WANG PART No.	QTY
R1,6,7,15	1K 1/4W	330-3010	4
R2,13	2.2K 1/4W	330-3022	2
R3,4	100Ω 2W	337-2010	2
R5	470Ω 1/4W	330-2047	1
R8	2.2K 1/2W	331-3022	1
R9,10	10Ω 1/4W	330-1010	2
R11	470Ω 1/2W	331-2047	1
R12	330Ω 1/4W	330-2033	1
R19,20	4.7K 1/4W	330-3047	2
R16	100Ω 1/2W	331-2010	1
R17	220Ω 1/4W	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
—	2-11-72	JB

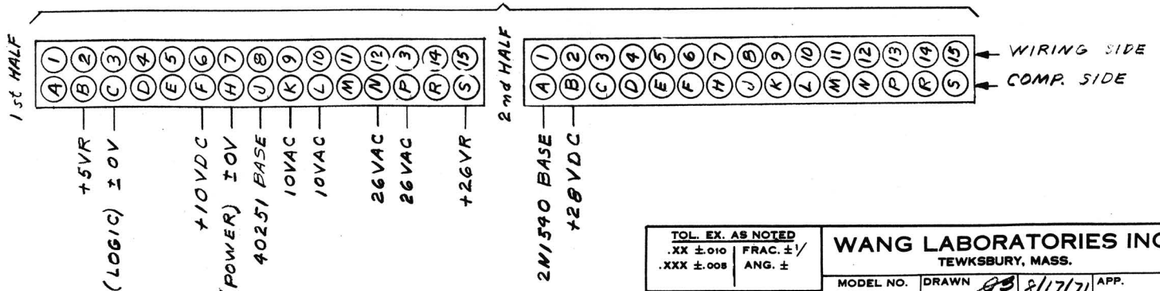
REVISIONS

PER ECN #2762
WAS L514-1
APP:—
S.K. HO

COMPONENT LAYOUT

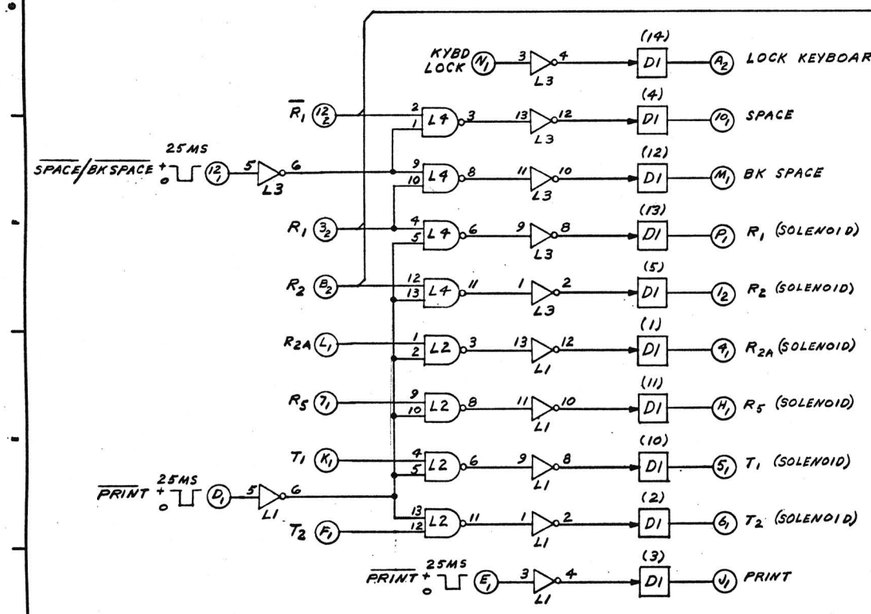


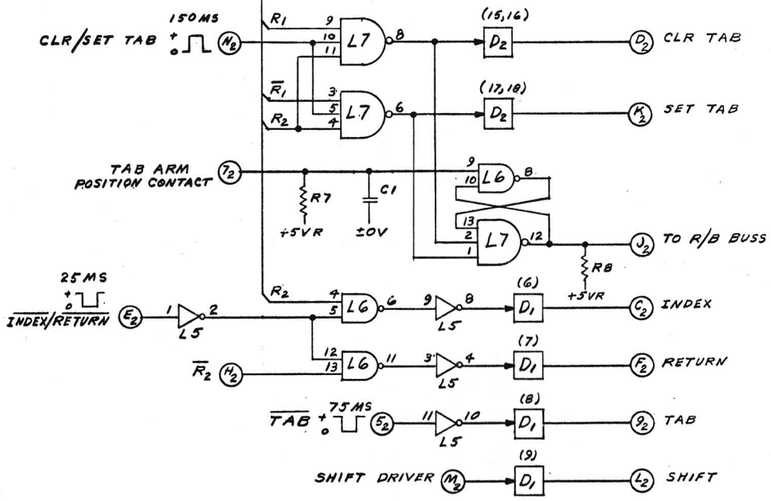
SIGNAL-TERMINAL DESIGNATIONS, VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR

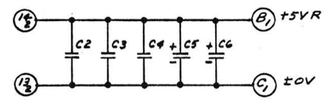


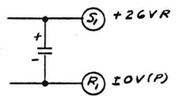
TOL. EX. AS NOTED .XX ±.010 .XXX ±.005	FRAC. ±1/ ANG. ±	WANG LABORATORIES INC. TEWKSBURY, MASS.
MATERIAL		MODEL NO. 711
FINISH	SCALE	DRAWN JB 8/17/71 · CHECKED · APP. · 12-27-71
		TITLE SCHEMATIC, POWER SUPPLY FOR MODEL 711 ONLY L514
		W.O. NO. · DWG. NO. C 6144-1 · REV. 1

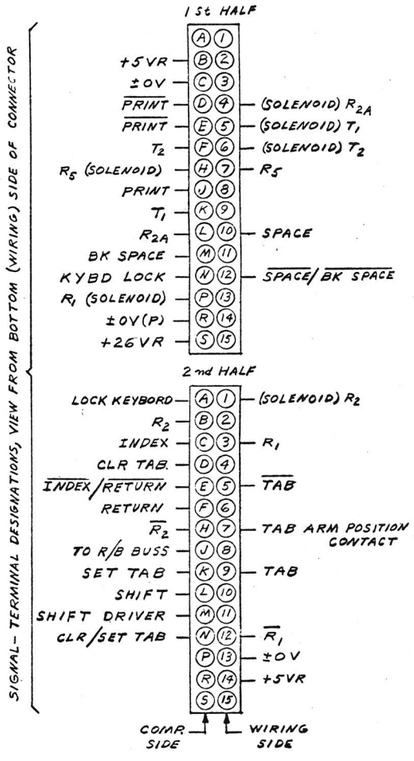
DWG. NO. C





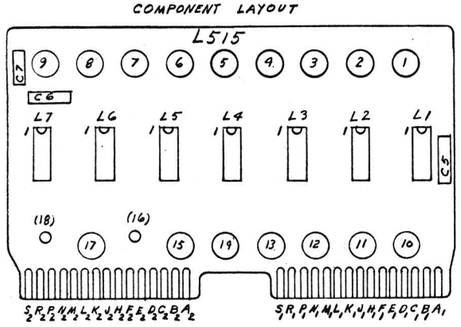




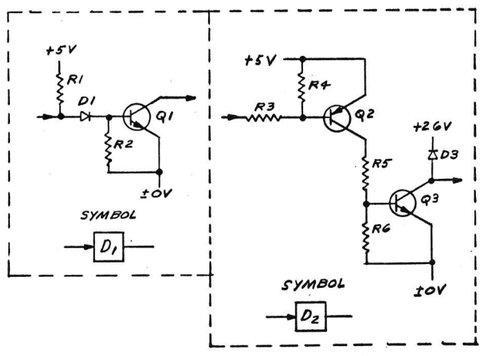


SIGNAL-TERMINAL DESIGNATIONS, VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR

COMPONENT LAYOUT



TYPICAL CIRCUITS



D1			
COMP.	SIZE/TYPE	WANG PART No.	QTY
R1	330Ω ¼W	330 - 2033	14
R2	2.2K ¼W	330 - 3022	14
D1	SIL DIODE	380 - 1001	14
Q1	2N3725	375 - 1027	14

D2			
COMP.	SIZE/TYPE	WANG PART No.	QTY
R3	680Ω ¼W	330 - 2068	2
R4	10K ¼W	330 - 4010	2
R5	56Ω ¼W	330 - 1056	2
R6	1K ¼W	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. V_{CC} +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 ¼W	330 - 3047	2
C1,2,3,4	.05 MF	300 - 1900	4
C5,6	35 MF 16VDC	300 - 3009	2
C7	1.2 MF 35VDC	300 - 4013	1

NO.	REVISION	BY	DATE
1	PER ECN 3048 DELETED D2 FROM D1 APP. SCH	GB	6-20-72
2	PER ECN 4321 Q1,3 WAS 2N3569 APP. SCH	GB	10-27-72

IDENT	QTY	NAME	MATERIAL	DESCRIPTION
			DR GB	DATE 3/16/71
			CHK	DATE
			APPD L.E.	DATE 12-27-71

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.

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

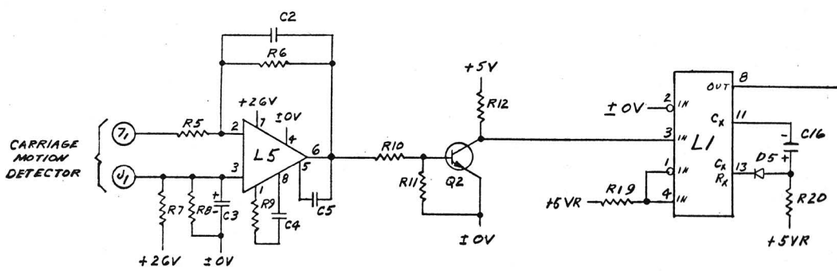
TITLE DRIVER BOARD #L515

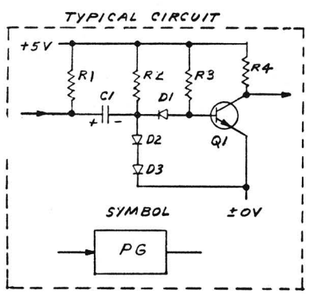
PART NUMBER	REV	SIZE	DRAWING NUMBER
	2	D	6145-1

D 6145-1

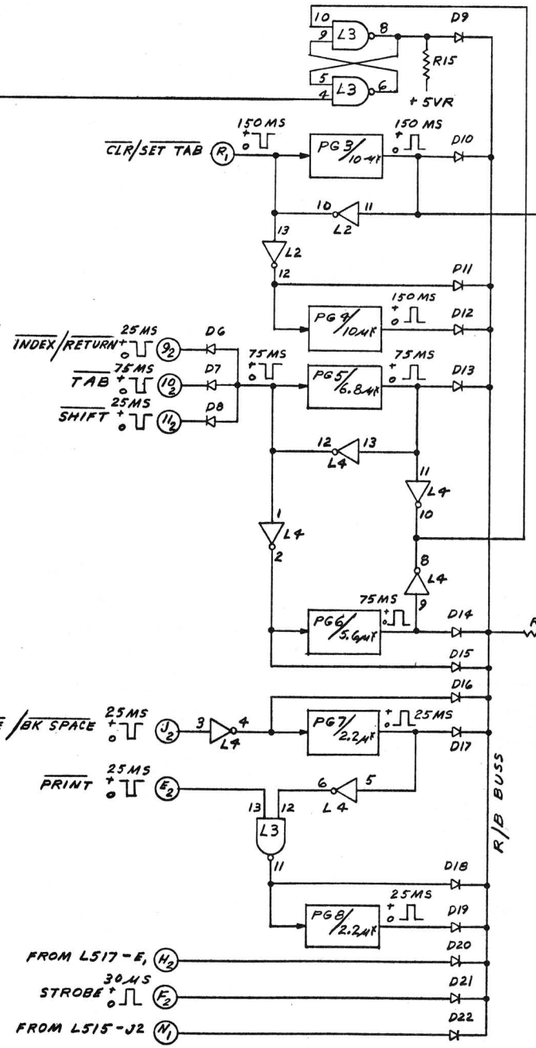
DO NOT SCALE

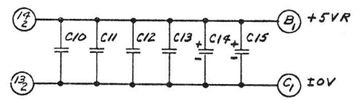
LOC.	TYPE	WANG PART No.	TERM. No. V_{CC} +5VR	TERM. No. ±0V	QTY
L1	9601	376-0086	14	7	1
L2,4	MC836P	376-0026	14	7	2
L3	MC846P	376-0023	14	7	1
L5	709C	376-0000	NC.	4	1

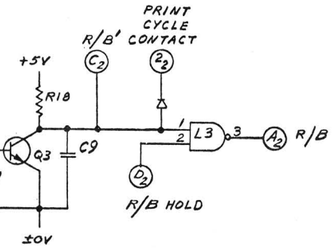


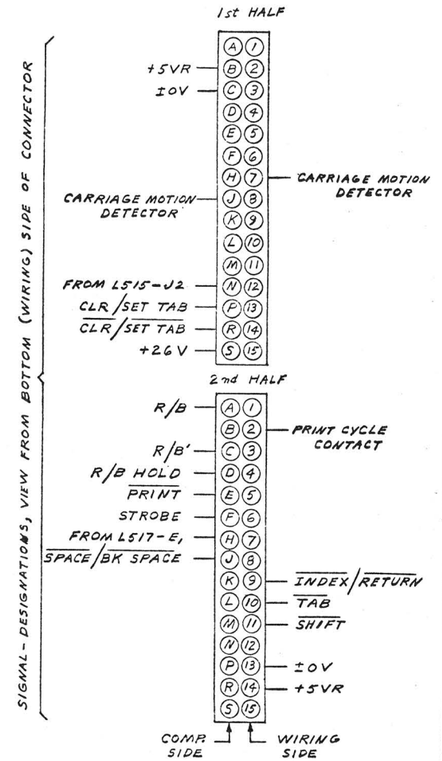


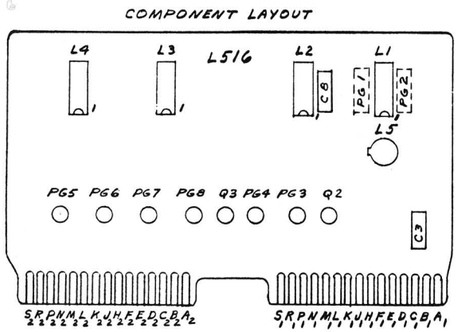
PG			
COMP.	SIZE/TYPE	WANG PART No.	QTY
R1	1K ¼W	330-3010	6
R2	100K ¼W	330-5010	6
R3	22K ¼W	330-4022	6
R4	2.2K ¼W	330-3022	6
C1	10 MF	300-3006	2
	5.6 MF	300-4017	2
	2.2 MF	300-4014	2
D1,2,3	SIL. DIODE	380-1001	18
Q1	2N3014	375-0017	6











COMPONENT	SIZE/TYPE	WANG PART No.	QTY
R5	100 Ω ¼W	330-2010	1
R6	1MEG ¼W	330-6010	1
R7,8,11	10K ¼W	330-4010	3
R9	1.5K ¼W	330-3015	1
R10	22K ¼W	330-4022	1
R12	2.2K ¼W	330-3022	1
R15,18,19	4.7K ¼W	330-3047	3
R16	6.8K ¼W	330-3068	1
R17,20	15K ¼W	330-4015	2
C2	470 PF	300-1470	1
C3	1.2 MF 35VDC	300-4013	1
C4,5	220 PF	300-1220	2
C16	6.8 MF TANT	300-4038	1
C9,10,11,12,13	.05 MF	300-1300	5
C14,15	10 MF 15VDC	300-3006	2
D5 THRU D23	SIL. DIODE	380-1001	19
Q2,3	2N3014	375-0017	2

NO.	REVISION	BY	DATE
1	PER ECN 2764 C9 WAS .02 MF ADD: SKH	JG	2/24/72
2	REVISED PER ECN "33 55" ADD'D SKH	JG	11-1-72
3	REVISED PER ECN 3589 ADD: SKH	GK	7-25-73

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.

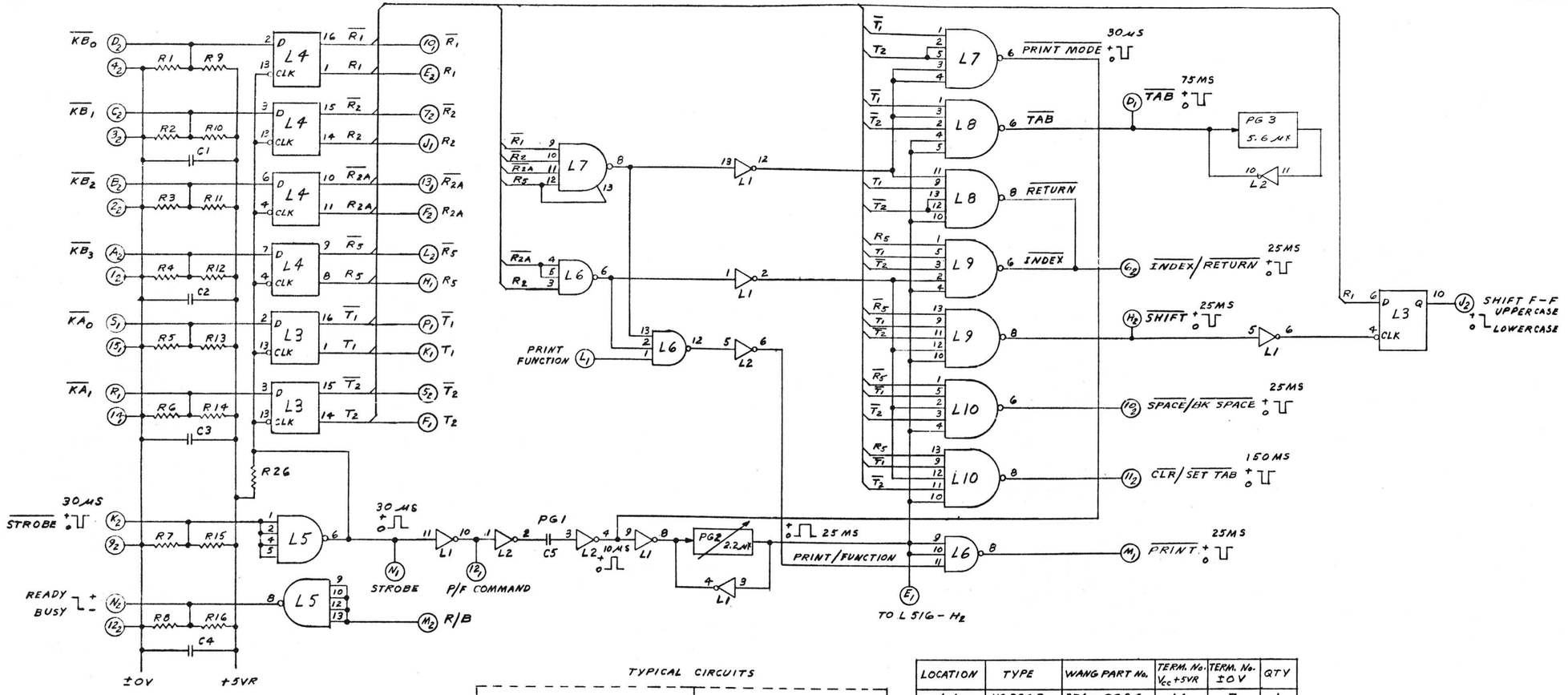
IDENT	QTY	NAME	MATERIAL	DESCRIPTION
			DR JG	DATE 8/11/71
			CHK	DATE
			APPD	DATE 12-27-71

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

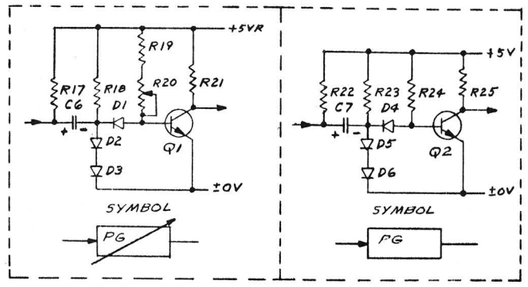
TITLE P. C. BOARD # L516

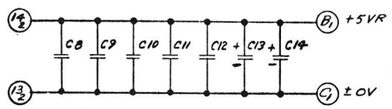
PART NUMBER	REV	SIZE	DRAWING NUMBER
	3	D	6146-1

6146-1

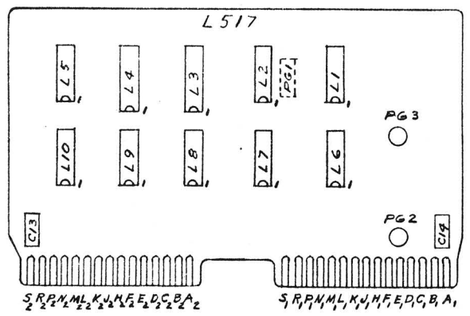


TYPICAL CIRCUITS





COMPONENT LAYOUT



LOCATION	TYPE	WANG PART No.	TERM. No. V_{cc} +5VR	TERM. No. ±0V	QTY
L1	MC836P	376-0026	14	7	1
L2	MC890P	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	360-1001	6
Q1, 2	2N3014	375-0017	2

REVISION	BY	DATE

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.

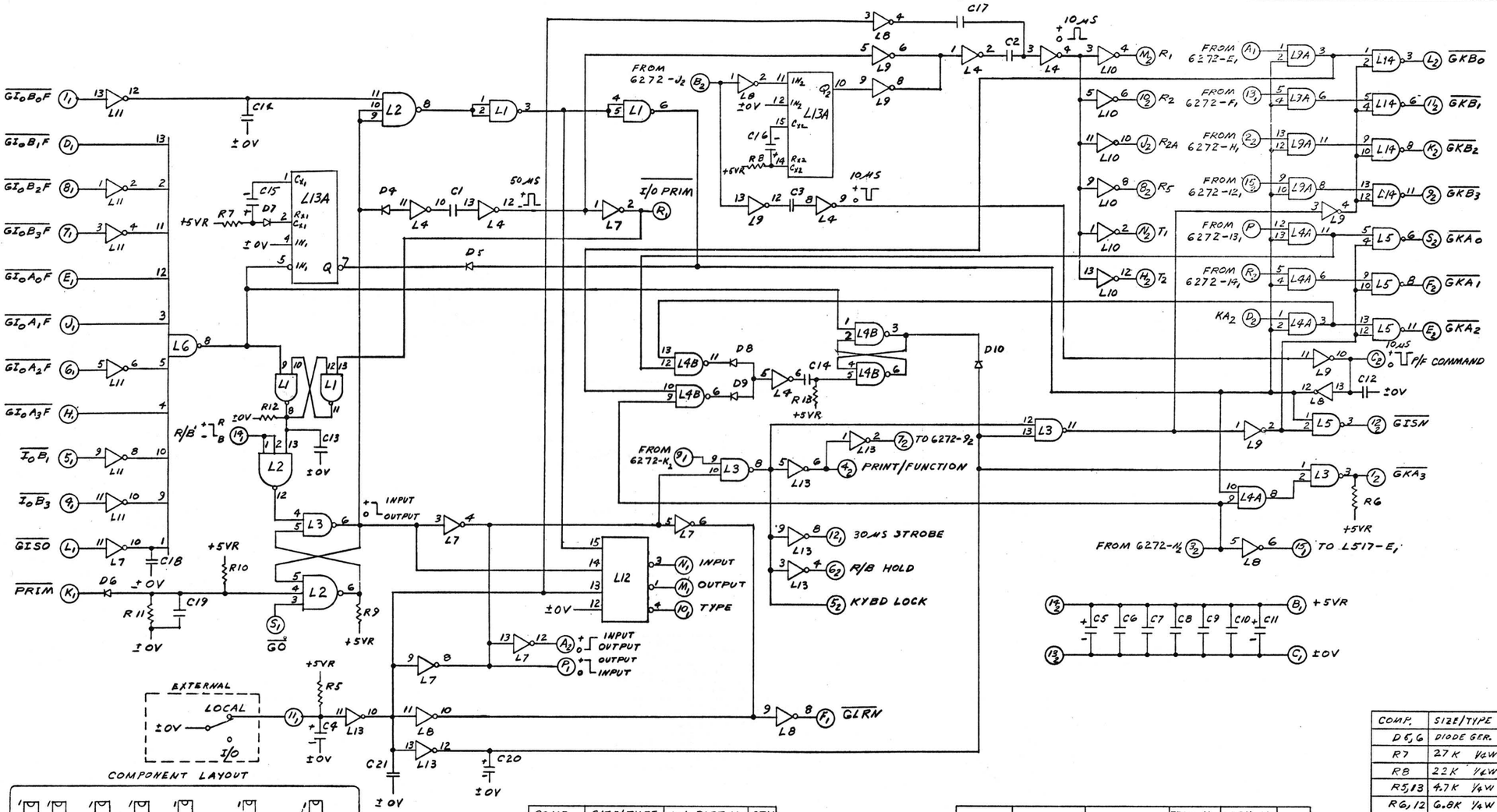
IDENT	QTY	NAME	MATERIAL	DESCRIPTION
			DR [illegible]	DATE 8/9/71
			CHK	DATE
			APPD	DATE 12-22-71

MODEL No. 711 W.O. No. SCALE NT 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-F,
I/O PRIM	R 14	R/B'
$\overline{GO}$	S 15	TO L517-E,

2nd HALF

INPUT	A 1	$\overline{GKA_3}$
OUTPUT	B 2	FROM 6272-H,
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	$\overline{GISN}$
T_1	P 13	
FROM 6272-13,	R 14	
FROM 6272-14,	S 15	FROM 6272-12,
$\overline{GKA_0}$		

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 ¼W	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 ½W	330-4027	1
R8	22K ¼W	330-4022	1
R5, 13	4.7K ¼W	330-3047	2
R6, 12	6.8K ¼W	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 ¼W	330-2047	1

NO.	REVISION	BY	DATE
1	PER ECN 2998 ADDED I.C. CHIPS L4A & L9A, C5 WAS .002 MF APP. SKH	CW	6-1-72
2	PER ECN 3018 ADDED C15 680 MF APP: SKH	BW	6-6-72
4	PER ECN #3169 ADDED I.C. CHIP L13A APP: SKH	CW	9-12-72
5	PER ECN #3257 ADDED R9 470Ω APP'D SKH	BW	9-28-72
6	PER ECN #3278 ADDED R10, 11, C19 AND D6 APP: SKH	BW	10-9-72
7	PER ECN #3320 L10 WAS 9936 APP'D SKH	FB	10-23-72
8	REVISED PER ECN 3375 APP: D SKH	FB	11-22-72
9	PER ECN #3435 ADDED C20 AND D10 APP'D SKH	BW	12-18-72
10	PER ECN #3581 R7 WAS 33K ADDED C21 .22 MF APP'D SKH	BW	7-25-73
11	PER ECN #3598 R7 WAS 47K C15 WAS 1 MF APP'D SKH	BW	7-25-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 611/711 | DRAWN BW 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

PCC (N.O.) 4_2 — D22 — 13 — 12 — L14 — M_2 TO C5-10

SR_1 (NO) E_2 | SR_2 (NO) M_1 | SR_{2A} (N.O) P_1 | SR_5 (N.O.) D_2 | ST_1 (N.O.) N_1 | ST_2 (N.O.) 2_2 | SP (N.O.) 6_2 | BK.SP (N.O.) K_1 | RTN (N.O) B_2 | IDX (N.O.) C_2 | TAB (N.C.) 15_2 | TAB (N.O.) S_1 | TAB (C) 15_1 | S. TAB (N.C) 10_2 | S. TAB (N.O.) A_2 | S. TAB (C) 1_2 | C. TAB (N.C.) D_1 | C. TAB (N.O.) L_1 | C. TAB (C) 10_1 | WTX (N.O.) 4_1 | ENDX (N.O.) 9_1 | GO (N.O.) 5_2 | UP (N.O.) R_1 | DN (N.C.) F_2

R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 — +5VR

C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C2 C3 C4 C16 C17 C18 C19 C20 — ±0V

$\overline{SR_1}$ $\overline{SR_2}$ $\overline{SR_{2A}}$ $\overline{SR_5}$ $\overline{ST_1}$ $\overline{ST_2}$ $\overline{PCC}$ $\overline{SP}$ BK.SP RTN IDX $\overline{TAB}$ $\overline{S.TAB}$ C.TAB $\overline{WTX}$ $\overline{ENDX}$ $\overline{GO}$ $\overline{UP}$ $\overline{DN}$

D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18 D20 D21

COMPONENT LAYOUT

L519

PG1 PG2 PG3 PG4

L5 L4A1 L4 L3 L2 PG10 L1 PG9 L10 L9 L8 L7 PG8 PG7 PG6 L15 L14A PG5 L14 L13 L12 L11 C32

$S_2 R_2 R_1 M_2 L_2 K_2 J_2 H_2 F_2 E_2 D_2 C_2 B_2 A_2$

S, M, P, N, M, L, K, J, H, F, E, D, C, B, A, 1_1

D11 — L14 — ±0V — C36

150 MS — C21 — L14 — PG5 — L14 — L9

PG 4 25 MK — 350 MS — L10 — L15 — D23 D24 — L9 — L4

FROM L518-7_2 — 3_2 — L9

C38 — L9A — L9A

C1 — ±0V

R/B' — 4_2 — L5 — PG 2 .82 MK — 10MS — L5 — L4 — C39 — L9A — L4A

I/O PRIME — 3_2

L5 — PG 1 2.2 MK — 10MS — L5 — L5

TO L518-B_2 — 4_2

L11 L11 L11 L11 — L14A — C37 — R27 — +5VR — C24 — L14 — L9 — C25 C26 — L1 L1

PG 6 — C22 — L6 — 10MS

PG 7 — C23 — L6 — 10MS

PG 9 — PG 10 — 10MS

D13 D14 D15 D16 D17 D18 D20 D21

WTX — ENDX — GO — UP — DOWN

L4 — 11_2 GO

L10 — K_2 TO L518-9,

PG 3 5.6 MK — 70 MS — 4_2 — KA_2

L10

L3 L13 L3 L8 L12 L9 — $\overline{ST_2}$ — TO L518-B_2 — 4_2

L2 L7 L2 L7 L7 L7

E_1 TO L518-A, $\overline{R_1}$ | F_1 TO L518-13, $\overline{R_2}$ | H_1 TO L518-2_2 $\overline{R_{2A}}$ | 12_1 TO L518-15_2 $\overline{R_5}$ | 13_1 TO L518-P_2 $\overline{T_1}$ | 6_1 | 14_1 TO L518-R_2 $\overline{T_2}$ | 7_1

TYPICAL CIRCUIT

R1 R2 R3 R4 C D1 D2 D3 Q1

SYMBOL — PG

COMP.	SIZE/TYPE	WANG PART No.	QTY
R1	1K ½W	330-3010	4
R2	100K ¼W	330-5010	4
R3	22K ¼W	330-4022	3
R4	2.2K ¼W	330-3022	4
C	.82 MK	300-4012	1
	5.6 MK	300-4017	1
	25 MK	300-3008	1
	2.2 MK	300-4014	1
D1,2,3	SIL. DIODE	380-1001	12
Q1	2N3014	375-0017	4
R3	6.8K ½W	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, 13	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
L14A	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 ¼W	330-3047	16
R16 THRU R21	10K ¼W	330-4010	6
C1,2,3,4	.1 MF	300-1901	4
C5 THRU C20 C22 THRU C33 C38, 39	.05 MF	300-1900	25
C21	.01 MF	300-1903	1
C22 THRU C26	.0056 MF	300-1915	5
C34, 35	10 MF 15VDC	300-3006	2
C36	.47 MF TANT	300-4001	1
C37	1 MF TANT	300-4000	1
D5 THRU D22	SIL. DIODE	380-1001	18
D23, 24	GER. DIODE	380-0000	2
R27	33K ¼W	330-4033	1

12_2 — C27 C28 C29 C30 C31 C32 C33 C34 C35 — B_1 +5VR

13_2 — C_1 ±0V

11_2 — L15 — L15 — Z_2 SHIFT DRIVER — SHIFT F-F

OUTPUT / INPUT

INPUT / OUTPUT

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

1st HALF

	A 1	$\overline{R_1}$
+5VR	B 2	
±0V	C 3	
C. TAB (N.C.)	D 4	WTX (N.O.)
TO L518-A,	E 5	$\overline{R_2}$
TO L518-13,	F 6	$\overline{T_1}$
TO L518-2_2	H 7	$\overline{T_2}$
$\overline{R_{2A}}$	J 5	$\overline{R_5}$
BK. SP (N.O.)	K 9	END OF (N.O.)
C. TAB (N.O.)	L 10	C. TAB (C)
SR_2 (N.O.)	M 11	$\overline{GO}$
ST_1 (N.O.)	N 12	TO L518-15_2
SR_{2A} (N.O.)	P 13	TO L518-P_2
UP (N.O.)	R 14	TO L518-R_2
TAB (N.O.)	S 15	TAB (C)

2nd HALF

S. TAB (N.O.)	A 1	S. TAB (C)
RTN (N.O.)	B 2	ST_2 (N.O.)
IDX (N.O.)	C 3	I/O PRIME
SR_5 (N.O.)	D 4	PCC (N.O.)
SR_1 (N.O.)	E 5	GO (N.O.)
DN (N.C.)	F 6	SP (N.O.)
R/B'	H 7	SHIFT DRIVER
TO L518-B_2	J 8	INPUT / OUTPUT
TO L518-9,	K 9	FROM L518-7_2
KA_2	L 10	S. TAB (N.C.)
TO C5-10	M 11	OUTPUT / INPUT
±0V	N 12	SHIFT F-F
	P 13	±0V
	R 14	+5VR
	S 15	TAB (N.C.)

COMP. SIDE — WIRING SIDE

BY		
DATE	2-25-72	6-2-72
REVISION	1 VER EXPANDED DELETE ONE R3-22K ADD ONE R3-6.8K DELETE ONE C-.82 MF ADD ONE 2.2 MF APP'D-SKN	2 PER ECN 2398 ADDED 2 IC'S L14A, L14A AND CIRCUIT CHANGES. APP'D SKN
NO	1	2

IDENT	QTY	NAME	MATERIAL	DESCRIPTION
		WANG LABORATORIES, INC. TEWKSBURY, MASS. U. S. A.	DR	DATE 8/25/71
			CHK	DATE
			APPD	DATE 12-27-71

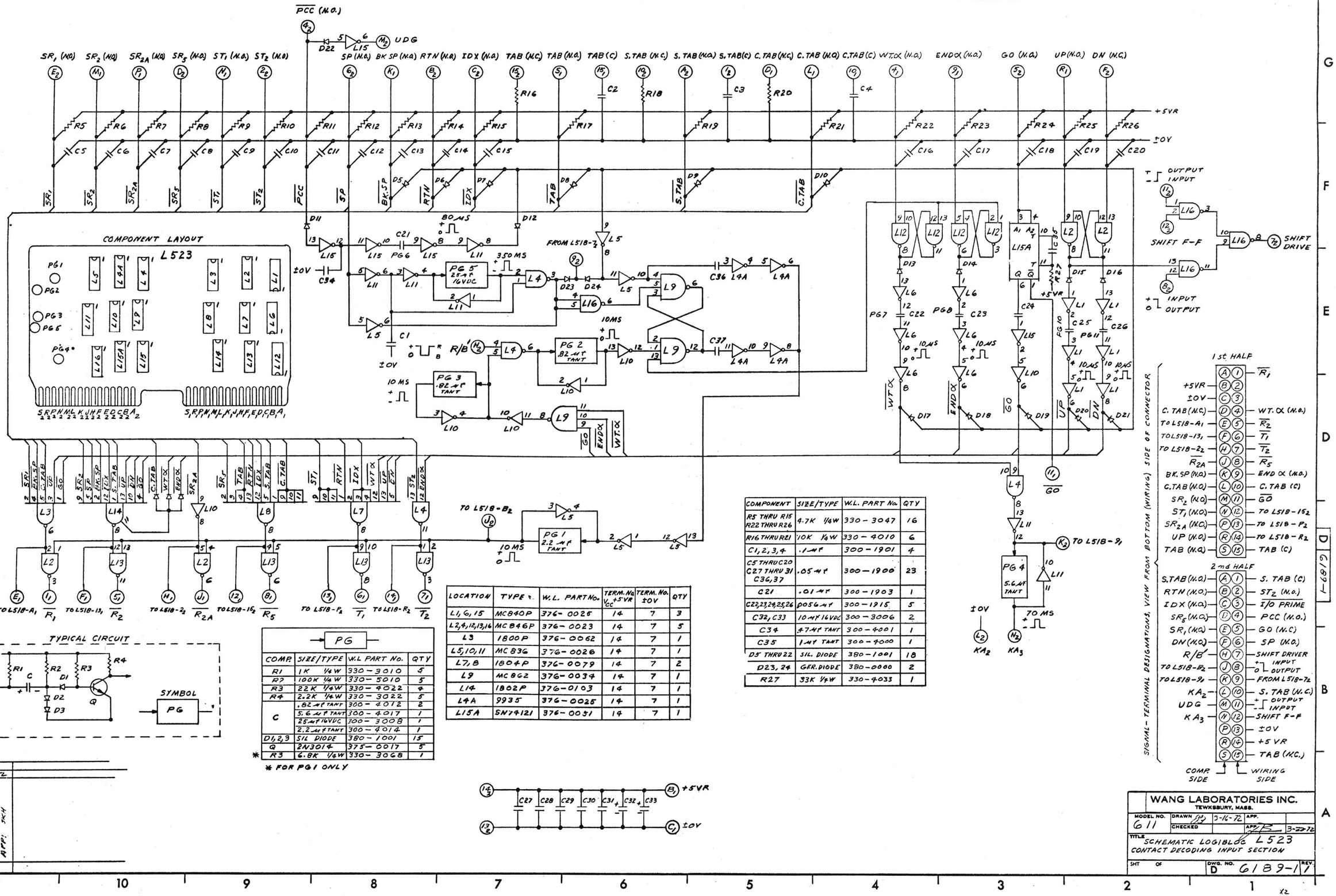
MODEL No. 711 | W.O. No. | SCALE 4/1 | SHEET OF

TITLE SCHEMATIC LOGIBLOC, CONTACT DECODING SECTION L519

210-L519 | 2 | D | 6149-1

PART NUMBER | REV | SIZE | DRAWING NUMBER

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	300-1906	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. V_{CC} +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
L14A	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

NO	REVISION	DATE	APP.
A	PER ECN 2998 ADDED L.C.'s L14A, L15A, AND CIRCUIT CHANGES APP: JCA	6-1-72	

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 611 | DRAWN | 5-16-72 | APP. | CHECKED | APP. 3-27-72

TITLE SCHEMATIC LOGIBLOC L523
CONTACT DECODING INPUT SECTION

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

DO NOT SCALE

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 MF TANT	300-4022	1
C2,9,6,8	.001 MF	300-1906	4
C3	18 MF TANT	300-4018	1
C5	5.6 MF TANT	300-4017	1
C7	" " "	300-1[illegible]	1
C9	.0047 MF	300-1210	1
C10,15	.10 MF 16VDC	300-3006	2
C11,12,13,14	.05 MF	300-1900	4
C16	3.3 MF 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

1st HALF

$\overline{A=BP}$	A 1	
+5VR	B 2	
±0V	C 3	
A=B	D 4	OPQ
$\overline{P_{123}}$	E 5	B_2F
	F 6	A_1F
B_3F	H 7	A_0F
B_0F	J 8	P_{123}
$\overline{P_4}$	K 9	B_1F
$\overline{DL_{13}}$	L 10	AGISO
$\overline{WTST}$	M 11	$\overline{GPRM}$
P_1	N 12	P_4
$\overline{P_3}$	P 13	
A_2F	R 14	P_2
RRTB	S 15	REBL

2nd HALF

WT	A 1	WEBL
RD	B 2	$\overline{GOS}$
Z DL	C 3	$\overline{P_2}$
LPS	D 4	$\overline{Z\ DROP}$
$\overline{RDST}$	E 5	
A_3F	F 6	BLCKD
MER II	H 7	MERD
DK II	J 8	$\overline{BCCL}$
$\overline{PERD}$	K 9	$\overline{PER\ II}$
$\overline{MERI}$	L 10	WMON
DK I	M 11	ERW
$\overline{PER\ I}$	N 12	ERROR
	P 13	±0V
	R 14	+5VR
$\overline{HKP_4}$	S 15	

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

COMP. SIDE — WIRING SIDE

COMPONENT LAYOUT

L534

L17 L16 L15 L8 L3 L2 L1
L18 L12 L11 L10 L9 L4
L19 L13 L7 L6 L5 L14

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

NO.	REVISION	DATE	BY
1	REVISED PER ECN#3235 APP'D Rev	2/1/72	[illegible]

210-510-L534.

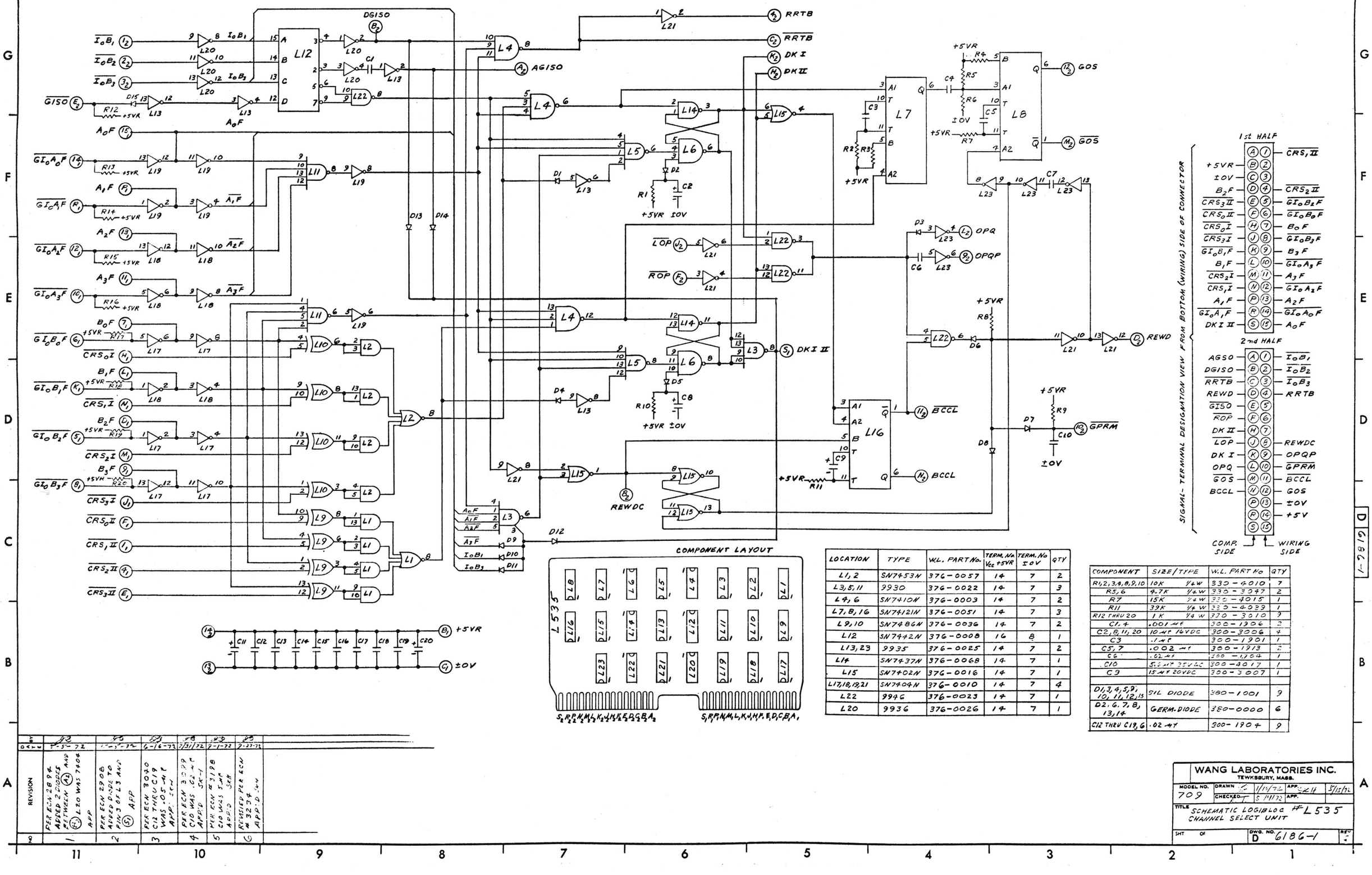
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	DATE	APP.	DATE
709	[illegible]	2/1/72	SKH	5/11/72
	CHECKED	5/11/72	APP.	

TITLE: SCHEMATIC LOGIBLOC L534 CONTROL UNIT I

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

DO NOT SCALE



LOCATION	TYPE	W.L. PART No.	TERM. No V_{cc} +5VR	TERM. No ±0V	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	SN7412N	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 ¼W	330-4010	7
R5, 6	4.7K ¼W	330-3047	2
R7	15K ¼W	330-4015	1
R11	39K ¼W	330-4039	1
R12 THRU 20	1K ¼W	330-3010	9
C1, 4	.001 MF	300-1906	2
C2, 8, 11, 20	10 MF 16VDC	300-3006	4
C3	.1 MF	300-1901	1
C5, 7	.002 MF	300-1913	2
C6	.02 MF	300-1904	1
C10	5.6 MF 35VDC	300-4017	1
C9	15 MF 20VDC	300-3007	1
D1, 3, 4, 5, 9, 10, 11, 12, 13	SIL DIODE	380-1001	9
D2, 6, 7, 8, 13, 14	GERM. DIODE	380-0000	6
C12 THRU C19, 6	.02 MF	300-1904	9

REVISION	BY	DATE	APP'D
PER ECN 2894 ADDED 2 DIODES BETWEEN (A2) AND (F) L20 WAS 7404 APP	1	7-5-72	
PER ECN 2908 ADDED DIODE TO PIN 9 OF L3 AND (S) APP	2	7-25-72	
PER ECN 3040 C12 THRU C19 WAS .05 MF APP'D SKM	3	6-16-72	
PER ECN 3099 C10 WAS .62 MF APP'D SK-1	4	7/31/72	
PER ECN #3198 C10 WAS 5 MF APP'D SKM	5	9-1-72	
REVISED PER ECN #3274 APP'D SKM	6	9-22-72	

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
709	CHECKED		APP.	

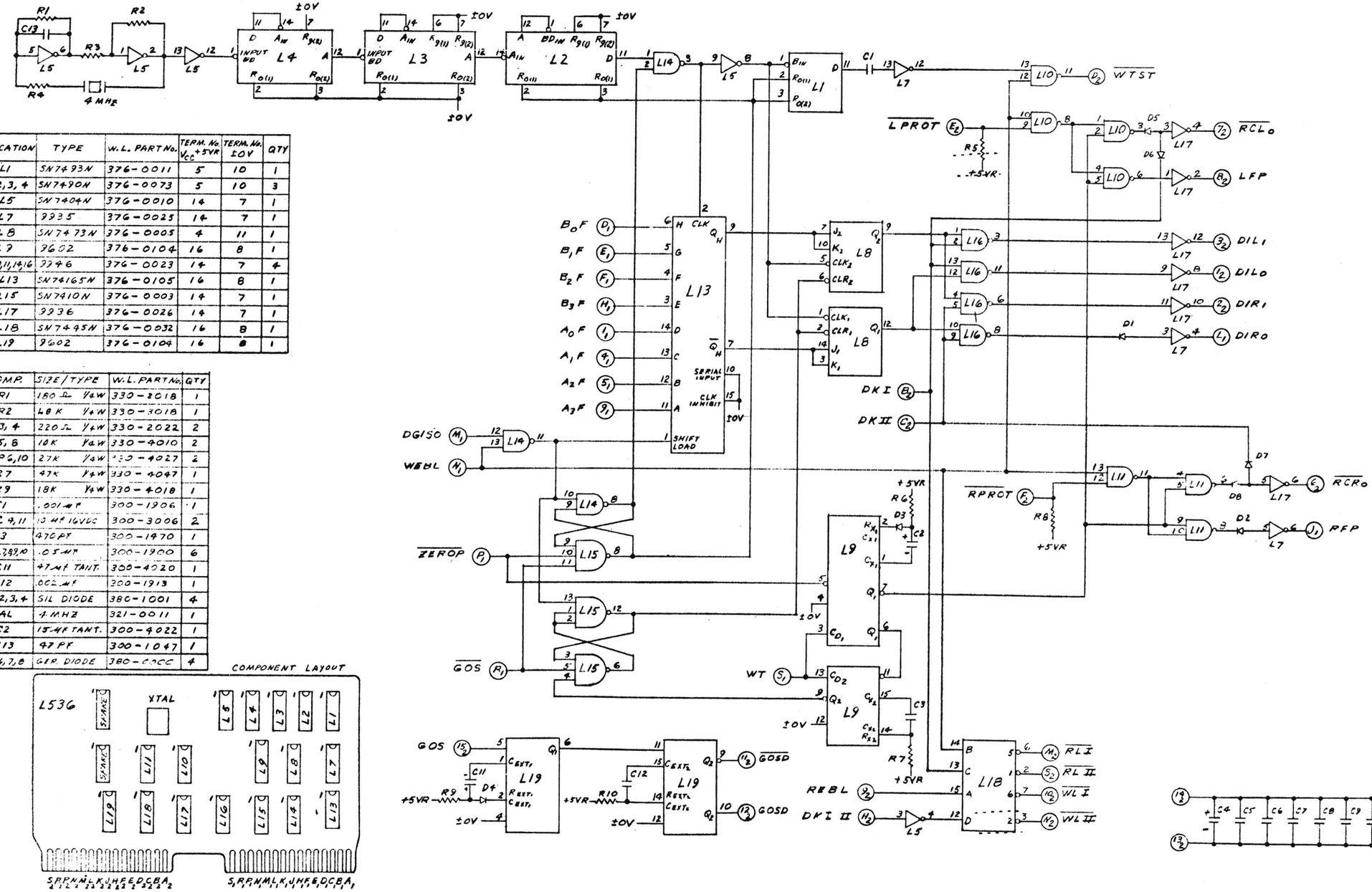
TITLE: SCHEMATIC LOGIBLOC #L535
CHANNEL SELECT UNIT

SHT OF | DWG. NO. D 6186-1 | REV.

LOCATION	TYPE	W.L. PART No.	TERM. No. V_{CC} +5VR	TERM. No. ±0V	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	9346	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 ¼W	330-2018	1
R2	4.8 K ¼W	330-3018	1
R3, 4	220 Ω ¼W	330-2022	2
R5, 6	10K ¼W	330-4010	2
R8,10	27K ¼W	330-4027	2
R7	47K ¼W	330-4047	1
R9	18K ¼W	330-4018	1
C1	.001 MF	300-1906	1
C 9,11	10 MF 16VDC	300-3006	2
C3	470 PF	300-1970	1
C5,6,7,8,9,10	.05 MF	300-1900	6
C11	47 MF TANT.	300-4020	1
C12	.002 MF	300-1913	1
D1,2,3,4	SIL DIODE	380-1001	4
XTAL	4 MHZ	321-0011	1
C2	15 MF TANT.	300-4022	1
C13	47 PF	300-1047	1
D5,6,7,8	GER. DIODE	380-0000	4

COMPONENT LAYOUT



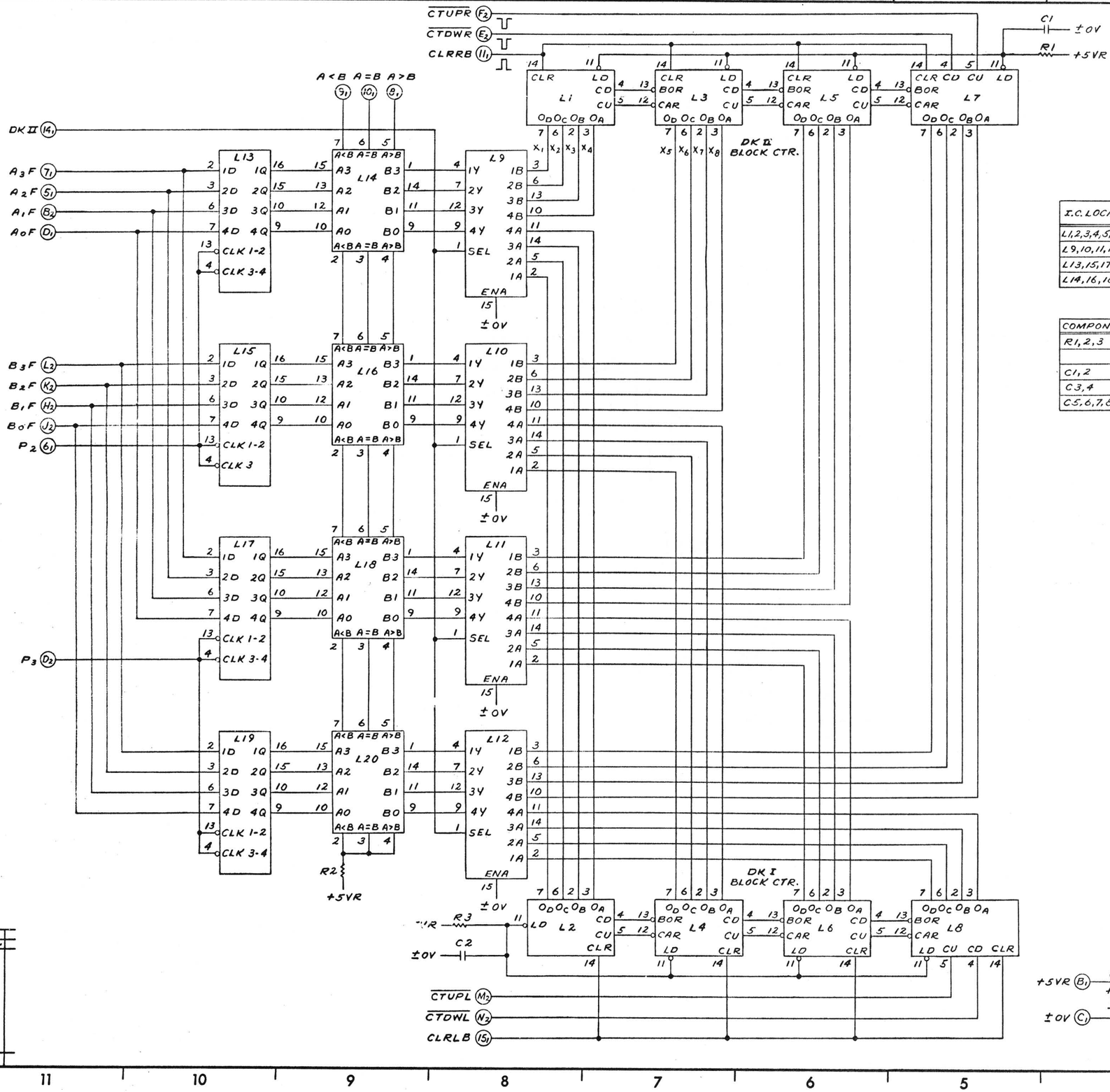
REV	DATE	REVISION
1	6/27/72	PER ECN 3062 ADDED # DIODES D5,6,7,8 A.P.I. — SAW

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.
701	5/23/72	
	CHECKED 5/31/72	APP.

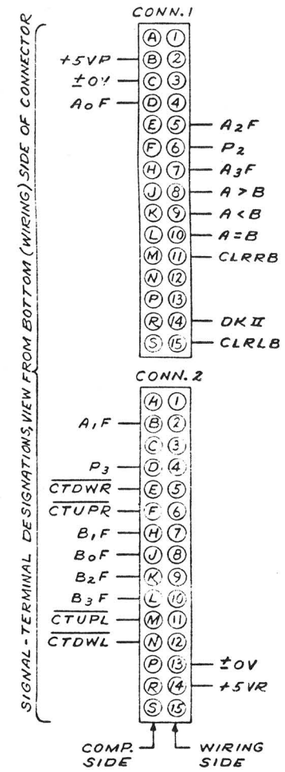
TITLE: SCHEMATIC LOGIBLOC # L536
TAPE WRITE UNIT

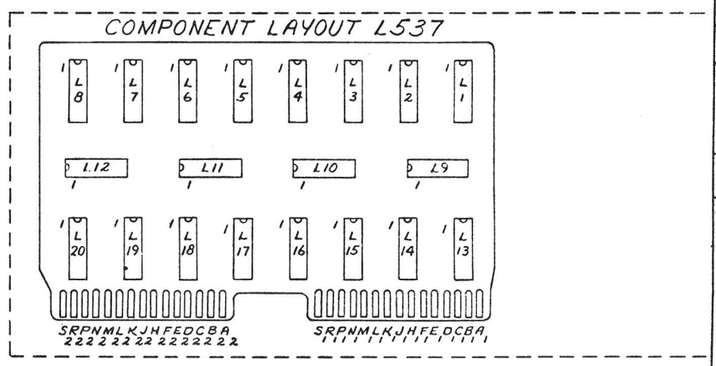
SHT 01 | DWG. NO. D 6180-1 | REV. 1



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





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

D 6190

DATE	REVISION	ENG.

DO NOT SCALE

COMP.	SIZE/TYPE	W.L. PART No.	QTY
R1	2.7K ¼W	330-3027	1
R2	3.3K ¼W	330-3033	1
R3,9	10K ¼W	330-4010	2
R4	2K ¼W	330-4022	1
R5,6,12	2K ¼W	330-4022	3
R6	4.7K ¼W	330-3047	1
R7	27K ¼W	330-4027	1
C3	6.8 MF	300-4017	1
C1	.0056 MF	300-1915	1
C2	.1 MF	300-1918	1
C5	2.2 MF TANT	300-4014	1
C4	.001 MF	300-1906	1
C6	15 MF TANT	300-4022	1
C7, 12	10 MF 15VDC	300-3006	2
C8,9,10,11	.05 MF	300-1900	4
C13	390 PF	300-1390	1
C14	3.3 MF	300-4016	1
D1,5,6,7	GER. DIODE	380-0000	4
D2,3,4	SIL. DIODE	380-1001	3
C15	.0015 MF	300-1907	1

1st HALF

$\overline{HKP_4}$	A 1	$\overline{R_5C}$
+5VR	B 2	
±0V	C 3	
$\overline{BLCK}$	D 4	BLKD
REWD	E 5	
$\overline{CTUPR}$	F 6	RRTB
CLRLB	H 7	RD
$\overline{GPRM}$	J 8	ERW
$\overline{CTDWL}$	K 9	A<B
$\overline{CTUPL}$	L 10	DK I
$\overline{CTDWR}$	M 11	ZDL
$\overline{GOS}$	N 12	
$\overline{DROP}$	P 13	
CLRRB	R 14	DK II
REBL	S 15	BCCL

2nd HALF

$\overline{WMON}$	4 1	$\overline{PRF\ II}$
$\overline{WEBL}$	B 2	$\overline{PRR\ II}$
WEBL	C 3	$\overline{PRF\ I}$
	D 4	$\overline{PRR\ I}$
	E 5	$\overline{REBL}$
OPQ	F 6	$\overline{HILC}$
$\overline{RIGHT}$	H 7	$\overline{HIRC}$
RBK	J 8	$\overline{DL_{13}}$
$\overline{P_4}$	K 9	GISO
	L 10	$\overline{A=BP}$
	M 11	$\overline{FOR}$
MTONC	N 12	$\overline{MTONC}$
	P 13	±0V
	R 14	+5VR
	S 15	

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

COMP. SIDE — WIRING SIDE

L538 - R9

L5	L4	L3	L2	L1	L1A		
L11	L10	L9	L8	L7	L6	L5A	
L12	L16	L15	L14	L13	L12		

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

LOCATION	TYPE	W.L. PART No.	TERM. No. V_{CC} +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

NO.	REVISION	BY	DATE
1	PER ECN # 3236 ADDED ITEM	JS	7-[illegible]-72
2	REVISED PER ECN # 3236 APP'D ITEM	JS	11-2-72
3	REVISED PER ECN # 3498 APP'D SKH	JS	2-8-73
4	PER ECN # 3511 ADDED D7 APP'D SKH	JS	2-14-73
5	REVISED PER ECN # 3649 APP'D SKH	JS	4-3-73
6	REVISED PER ECN # 3649 APP'D SKH	JS	6-8-73

210
510 - L538

WANG LABORATORIES INC.
TEWKSBURY, MASS.

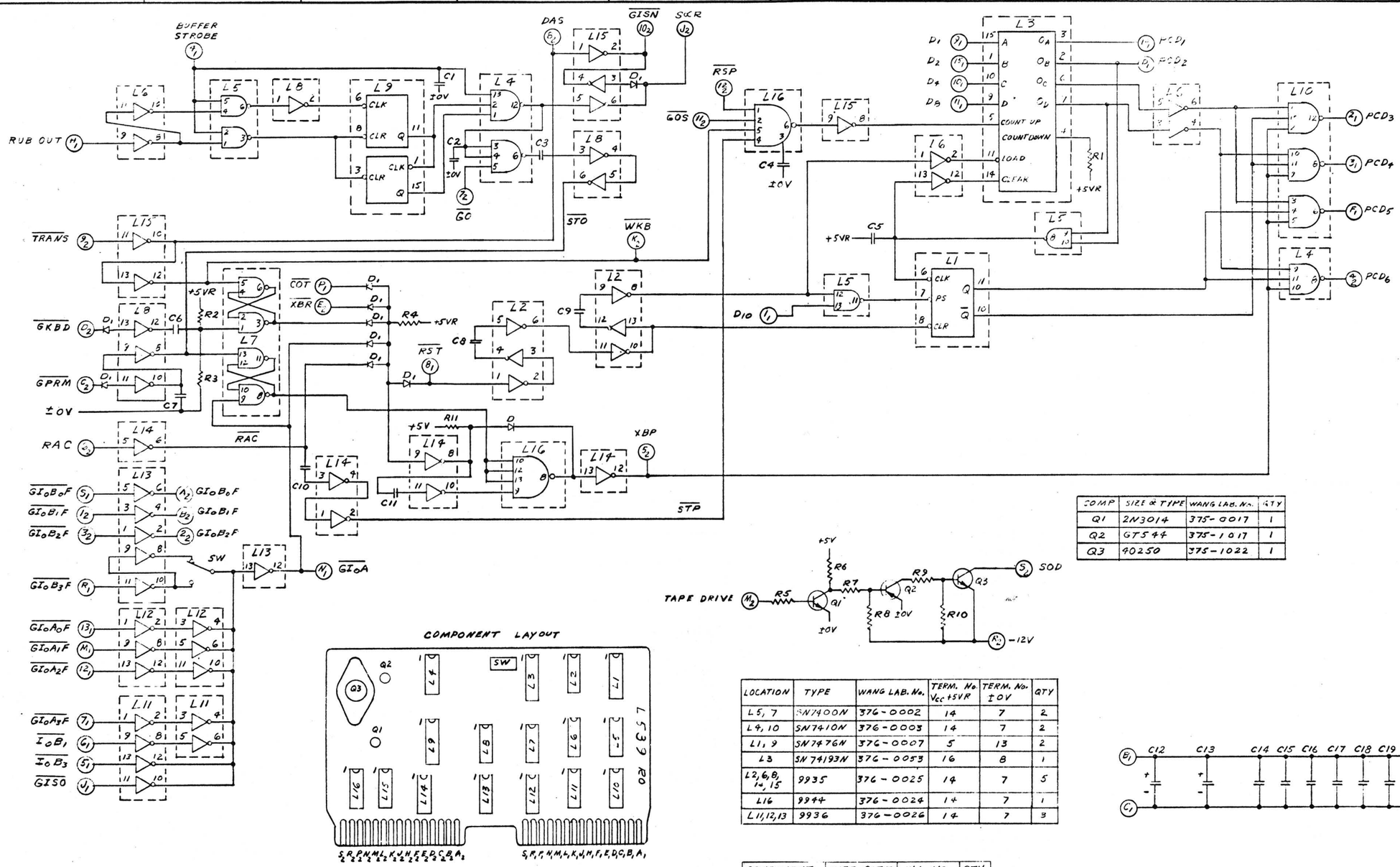
MODEL NO.	DRAWN	APP.	
709	JS 4-10-72	SKH	5/15/72
	CHECKED 5/11/72	APP.	

TITLE: SCHEMATIC LOGIBLOC L538 CONTROL UNIT II

SHT OF | DWG. NO. D 6198-1 | REV.

D 1-8619

DO NOT SCALE

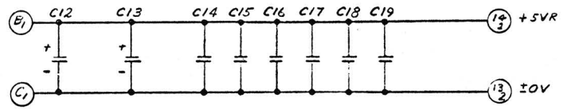


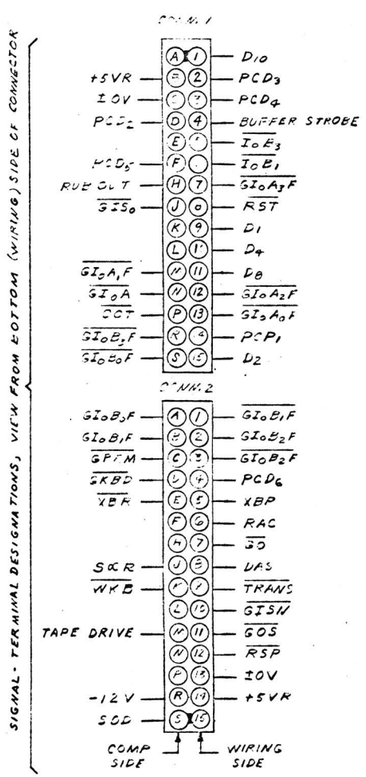
COMP	SIZE & TYPE	WANG LAB. NO.	QTY
Q1	2N3014	375-0017	1
Q2	GT544	375-1017	1
Q3	40250	375-1022	1

COMPONENT LAYOUT

LOCATION	TYPE	WANG LAB. No.	TERM. No V_{cc} +5VR	TERM. No ±0V	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 ¼W	330-3010	3
R2,3,8	10K ¼W	330-4010	3
R5	8.2K ¼W	330-3082	1
R7,10,11	2.2K ¼W	330-3022	3
R9	220Ω ½W	331-2022	1
C1,2,7	.01μf 25V	300-1903	3
C3	.003μf 100V	300-1905	1
C4	390μμf CER.	300-1390	1
C5,8,9,10	.001μf 200V	300-1906	4
C6	.002μf 200V	300-1913	1
C11	.006μf 100V	300-2008	1
C12,13	10μf 15V	300-3006	2
C14,15,16,17,18,19	.05 12V	300-1906	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 E.C.#3603 ADD. SKM	12-5-72	F.S.S.
2	REVISED PER ECN #3615 ADDED SKMD	12-13-72	F.S.S.
3	REVISED PER ECN #3615 ADDED SKMD	12-13-72	F.S.S.
4	REVISED PER E.C.#3903 ADDED SKM	12-5-73	F.S.S.

IDENT	QTY	NAME	MATERIAL	DESCRIPTION
			DR F.S.S.	DATE 3-17-72
			CHK	DATE
			APPD G.T.C.	DATE 11/9/72

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.

MODEL No. 603/703 W.O. No. SCALE Cty SHEET 1 OF 1

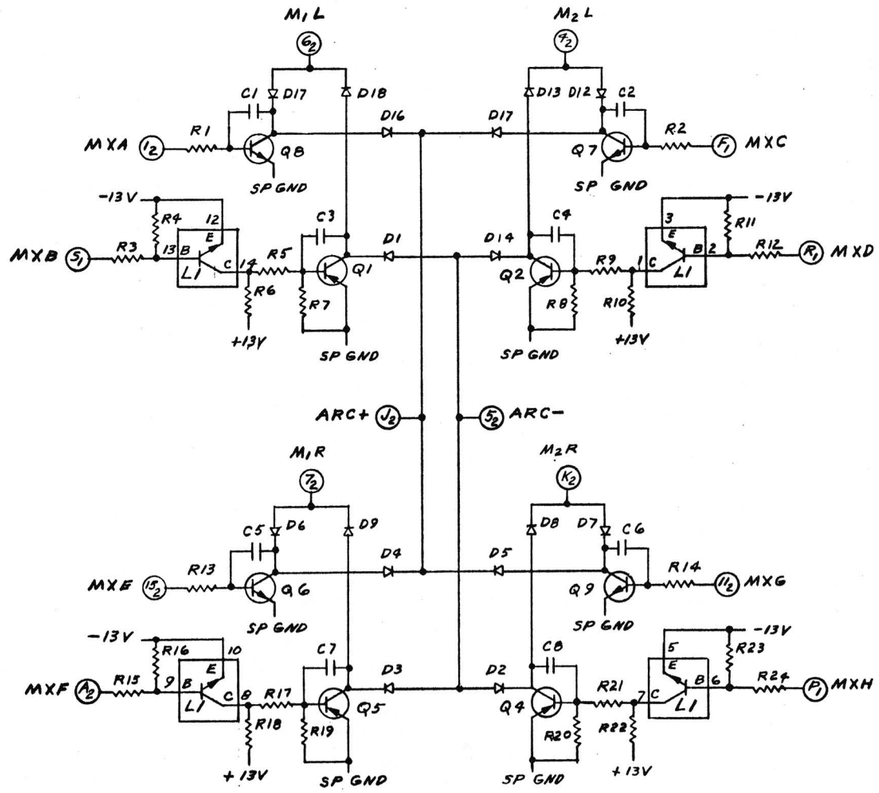
TITLE SCHEMATIC LOGIBLOC, TAPE READER # L539

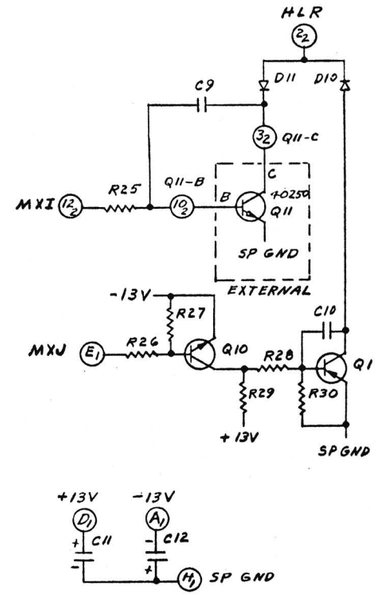
PART NUMBER	REV	SIZE	DRAWING NUMBER
	4	D	6191

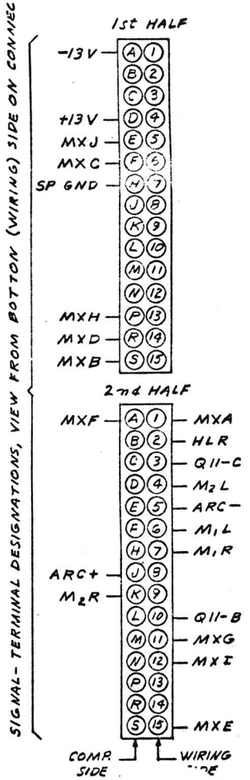
1619

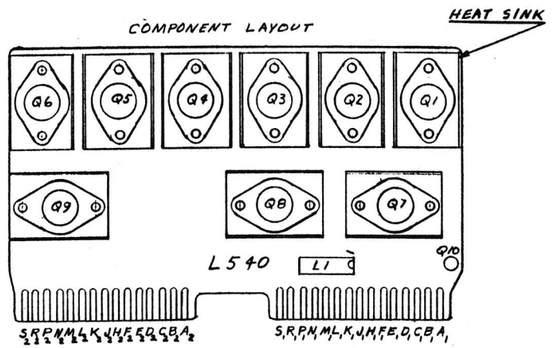
COMPONENT	SIZE/TYPE	W.L. PART No	QTY
R1, 2, 13, 14, 25	100 Ω ¼W	330-2010	5
R3, 12, 15, 24, 26	1.2K ¼W	330-3012	5
R4, 11, 16, 23, 27	47K ¼W	330-4047	5
R5, 9, 17, 21, 28	150 Ω ¼W	330-2015	5
R6, 10, 18, 22, 29	10K ¼W	330-4010	5
R7, 8, 19, 20, 30	1K ¼W	330-3010	5
C1 THRU 10	.1MF 100V	300-2210	10
C11, 12	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









DATE	BY	REVISION	NO.

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	9-11-72	APP.	5/14/72
709	CHECKED	5/11/72	APP.	

TITLE: SCHEMATIC LOGIBLOC L540 MOTOR CONTROL

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

6199-1 D

DO NOT SCALE

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

1st HALF

+5VR	A	1	
±0V	B	2	
	C	3	LSP
	D	4	REBL
	E	5	WTST
	F	6	GOSD
HKP4	H	7	RDST
	J	8	WEBL
	K	9	ERROR
	L	10	DL13
	M	11	P123
	N	12	MERD
BCCL	P	13	GISN
GPRM	R	14	
	S	15	BLCK

2nd HALF

DKI II	A	1	ZDL
WT	B	2	RDK
	C	3	RTCK
GOSD	D	4	LTCK
P4	E	5	LDK
	F	6	DK II
	H	7	DK I
PERD	J	8	GKB2
GKB3	K	9	GKB0
	L	10	GKB
GKA3	M	11	GKA2
	N	12	GKA1
	P	13	±0V
	R	14	+5VR
GKA0	S	15	

COMP. SIDE — WIRING SIDE

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	2
L13, 21	SN7403N	376-0028	14	7	2

L541-R2

COMP.	SIZE/TYPE	W.L. PART NO.	QTY
R1	47K	¼W 330-4047	1
R2,9,5,1 10, 11	10K	¼W 330-4010	5
R6,2,3	22K	¼W 330-4022	3
R7	15K	¼W 330-4015	1
R12/13/14/15, 16,17,18,19	3.3K	¼W 330-3033	8
R8	6.8K	¼W 330-3068	1
C1,5,6	680 PF	300-1680	3
C2	5.6 MF	300-4017	1
C3	.001 MF	300-1106	1
C4	.1 MF	300-1101	1
C7,8	.27 MF TANT	300-4027	2
C9,10	15 MF TANT	300-4022	2
C11	33 MF TANT	300-4024	1
C12	.0068 MF	300-1211	1
C13,14	.0082 MFD	300-2082	2
C15,20	10 MF TYPE C	300-3006	2
C16,17,18,19	.05 MF	300-1100	4
D11	GER. DIODE	380-0000	1
D1,2,3,14, 10,11,12,15	GER. DIODE	380-0000	8
D3,4,5,6, 14,7,8,13	SIL. DIODE	380-1001	8

NO	REVISION	BY	DATE
1	REVISED PER ECN # 3100 ADDED SKH		11/11/72
2	REVISED PER ECN # 3236 APP'D KH		9-21-73
3	PER ECN #3498 ADDED D11 APP'D KH		2-1-73

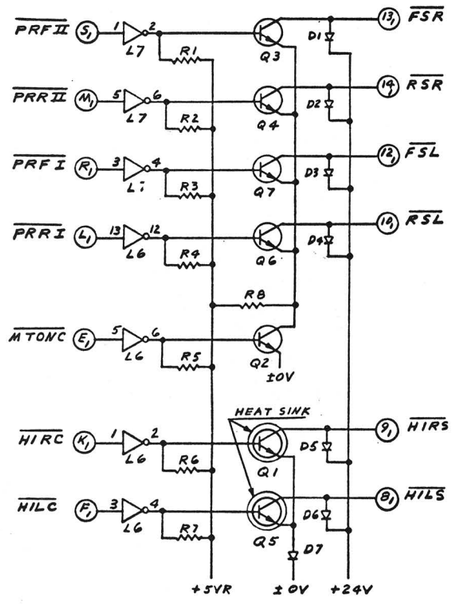
210
510-L541

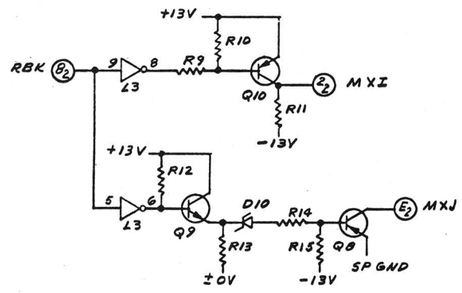
WANG LABORATORIES INC.
TEWKSBURY, MASS.

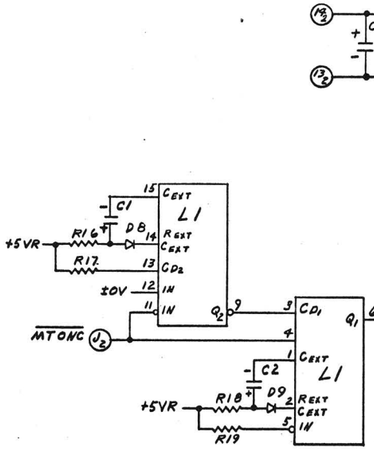
SIZE 709 DRAWING NO. 1-6001 D

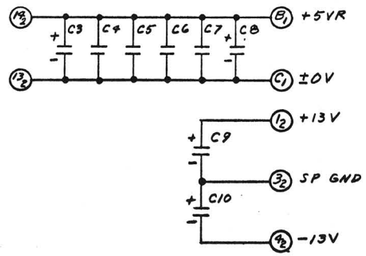
TITLE SCHEMATIC DIAGRAM TAPE OUT

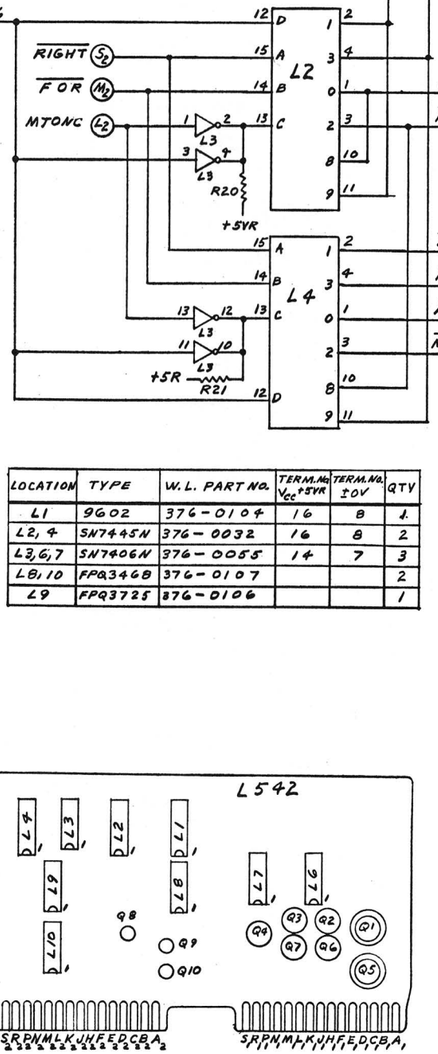
SHT OF

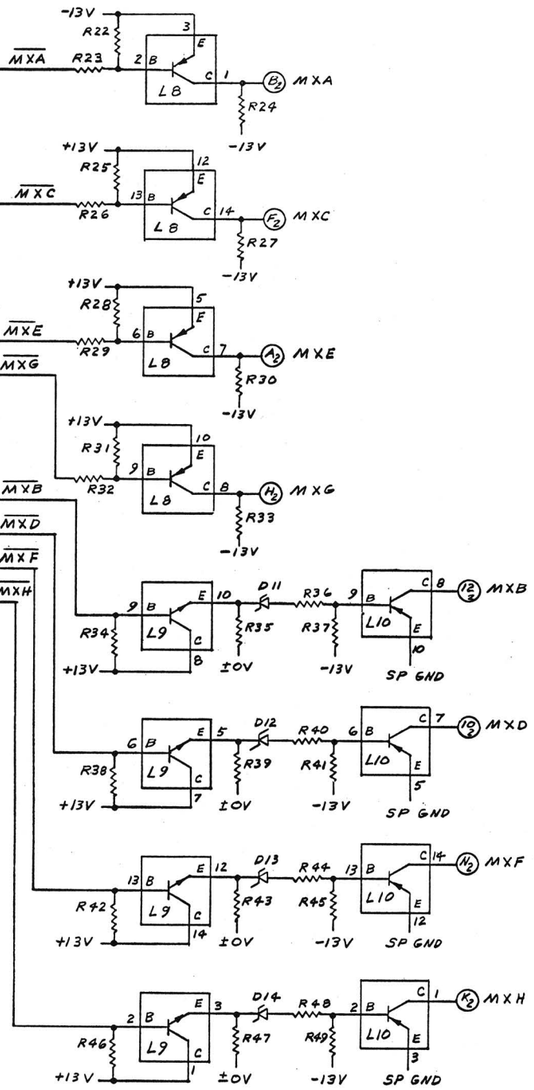


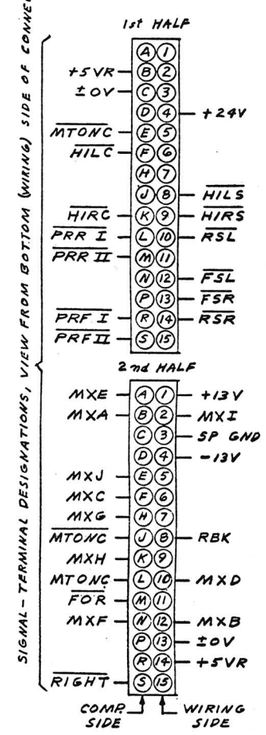












COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY
R1, 2, 3, 4, 5, 6, 7	180Ω ¼W	330-2018	7
R8, 15, 37, 41, 45, 49	10K ¼W	330-4010	6
R9, 20, 21, 23, 24, 27, 32	1K ¼W	330-3010	7
R10, 12, 13, 22, 25, 28, 31, 34, 35, 38, 39, 42, 43, 46, 47	2.2K ⅛W	330-3022	15
R11, 24, 27, 30, 33	47K ¼W	330-4047	5
R19, 36, 40, 44, 48	3.3K ¼W	330-3033	5
R16, 18	27K ¼W	330-4027	2
R17, 19	4.7K ¼W	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	380-9000	2
D10, 11, 12, 13, 14	ZENER 5.6V	380-2056	5
Q1, 5	2N3725	375-1027	7
Q2, 3, 4, 6, 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. ±0V	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	BY	DATE
1	PER ECN 3135 Q2, 3, 4, 6 AND 7 WERE 2N3725 APPLIED SKH	RD	8-16-72

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.	
709	CHECKED	APP.	

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

SHT OF | DWG. NO. D 6401-1 | REV. 1

D 6401-1

DO NOT SCALE

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. W.	AK	2-21-74
2 REV. PER ECN 4132 APP'D: C. Lee	AK	4-17-74

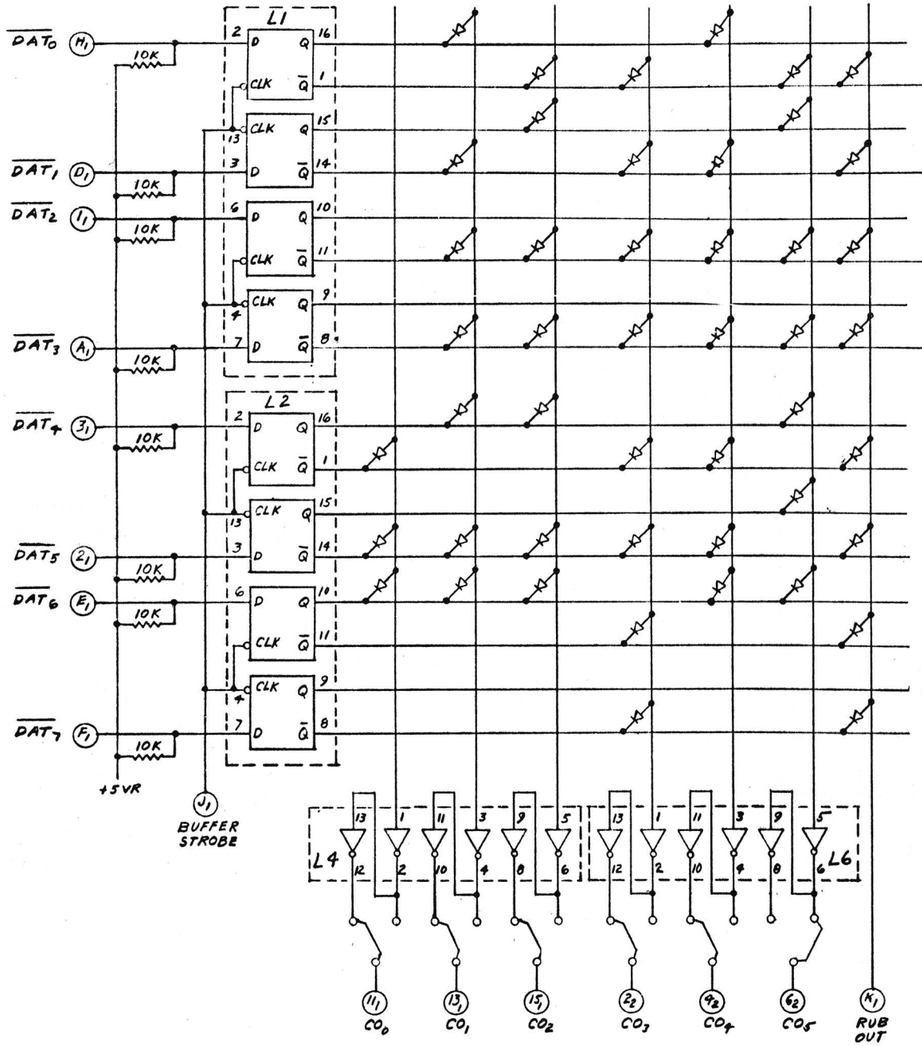
WANG LABORATORIES INC.
TEWKSBURY, MASS.

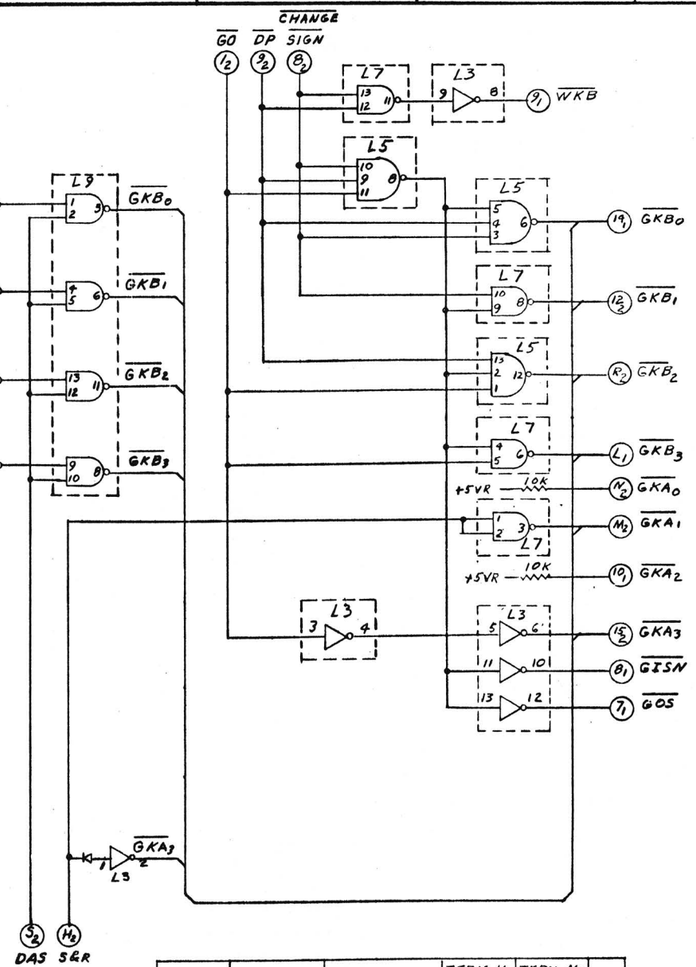
MODEL NO.	DRAWN	DATE	APP.
3300	AK	11-13-72	
	CHECKED		APP. BOM 12-7-73

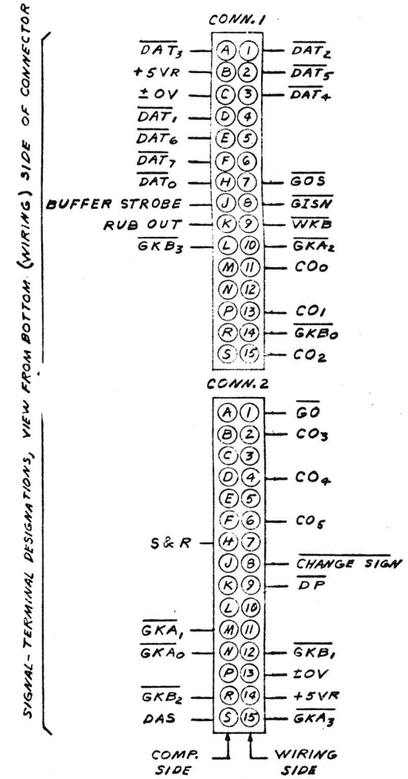
TITLE: SCHEMATIC LOGIBLOC #L545
HIGH SPEED TAPE READER CONTROL

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

DO NOT SCALE

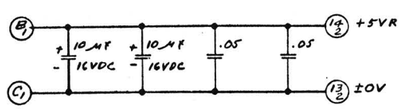


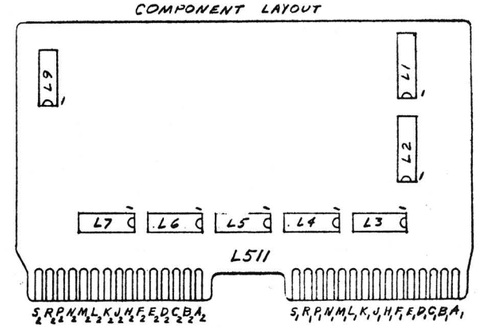




LOCATION	TYPE	WANG LAB. No.	TERM. No Vcc +5VR	TERM. No ±0V	QTY
L4, 6	SN7404N	376-0010	14	7	2
L1, 2	SN7475N	376-0013	5	12	2
L3	9935	376-0025	14	7	1
L7, 9	9946	376-0023	14	7	2
L5	9963	376-0033	14	7	1

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





NO.	REVISION	BY	DATE
1	REVISED PER ECN # 3428 APP'D SKH	[illegible]	12-13-72

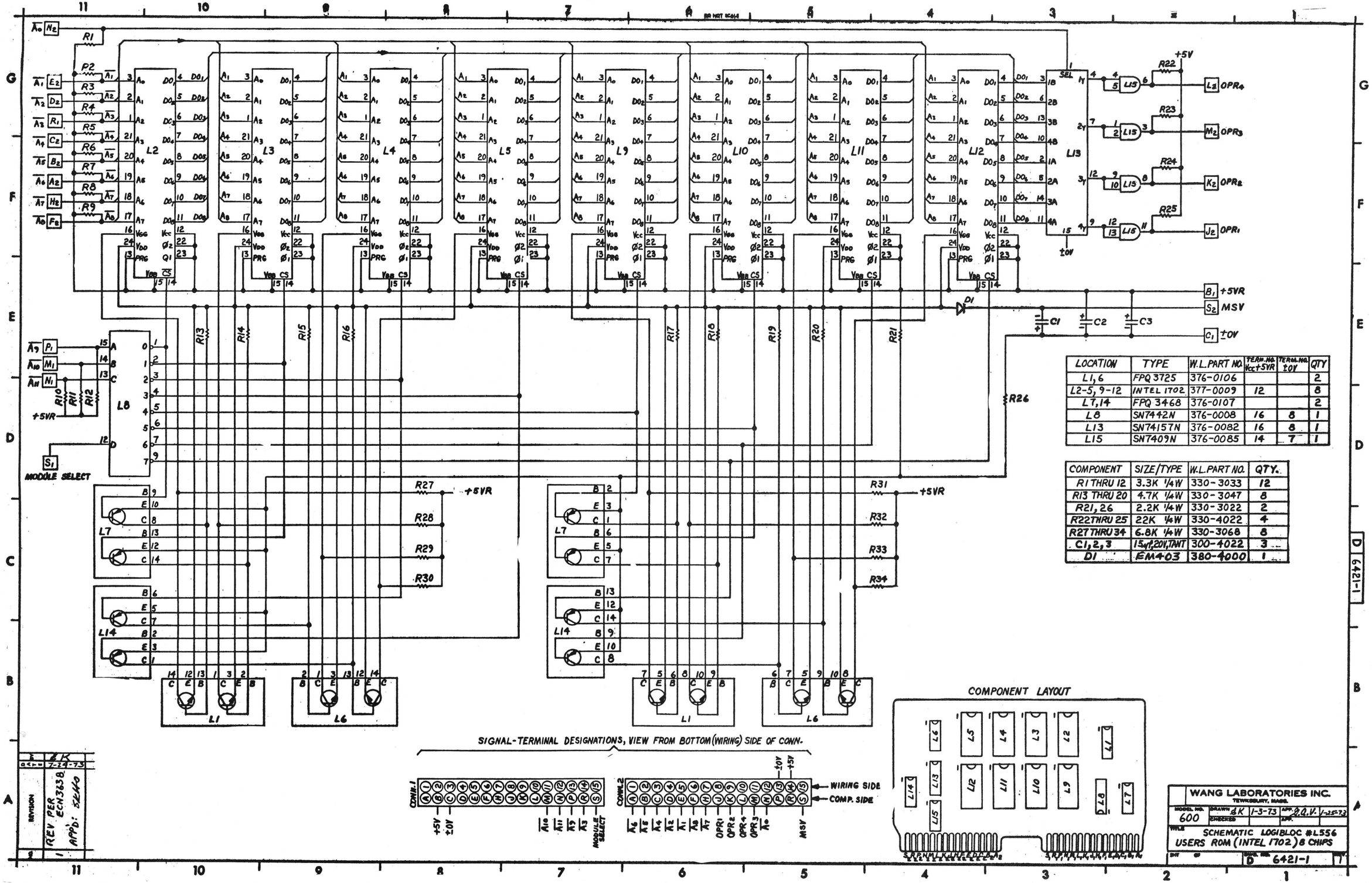
IDENT	QTY	NAME	MATERIAL	DESCRIPTION

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 6-27-72
CHK DATE
APPD G.T.C. DATE 11/8/72
MODEL No. 603 W.O. No. SCALE NONE SHEET OF
TITLE SCHEMATIC LOGIBLOC, TAPE READER # L546
1 D 6408
PART NUMBER REV SIZE DRAWING NUMBER

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	15 μf 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		
	CHECKED	APP.	DATE

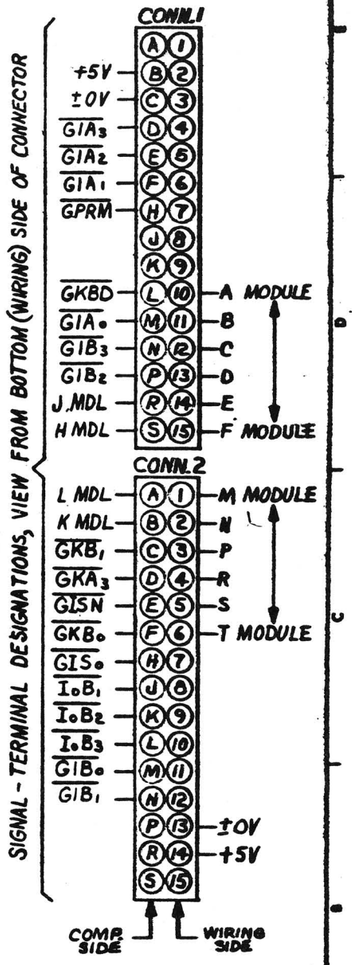
TITLE: SCHEMATIC LOGIBLOC #L556 USERS ROM (INTEL 1702) 8 CHIPS

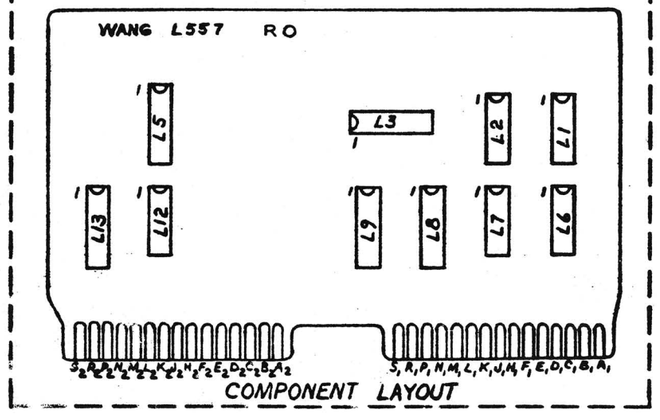
SIZE D | DWG. NO. 6421-1 | REV. 1

6421-1

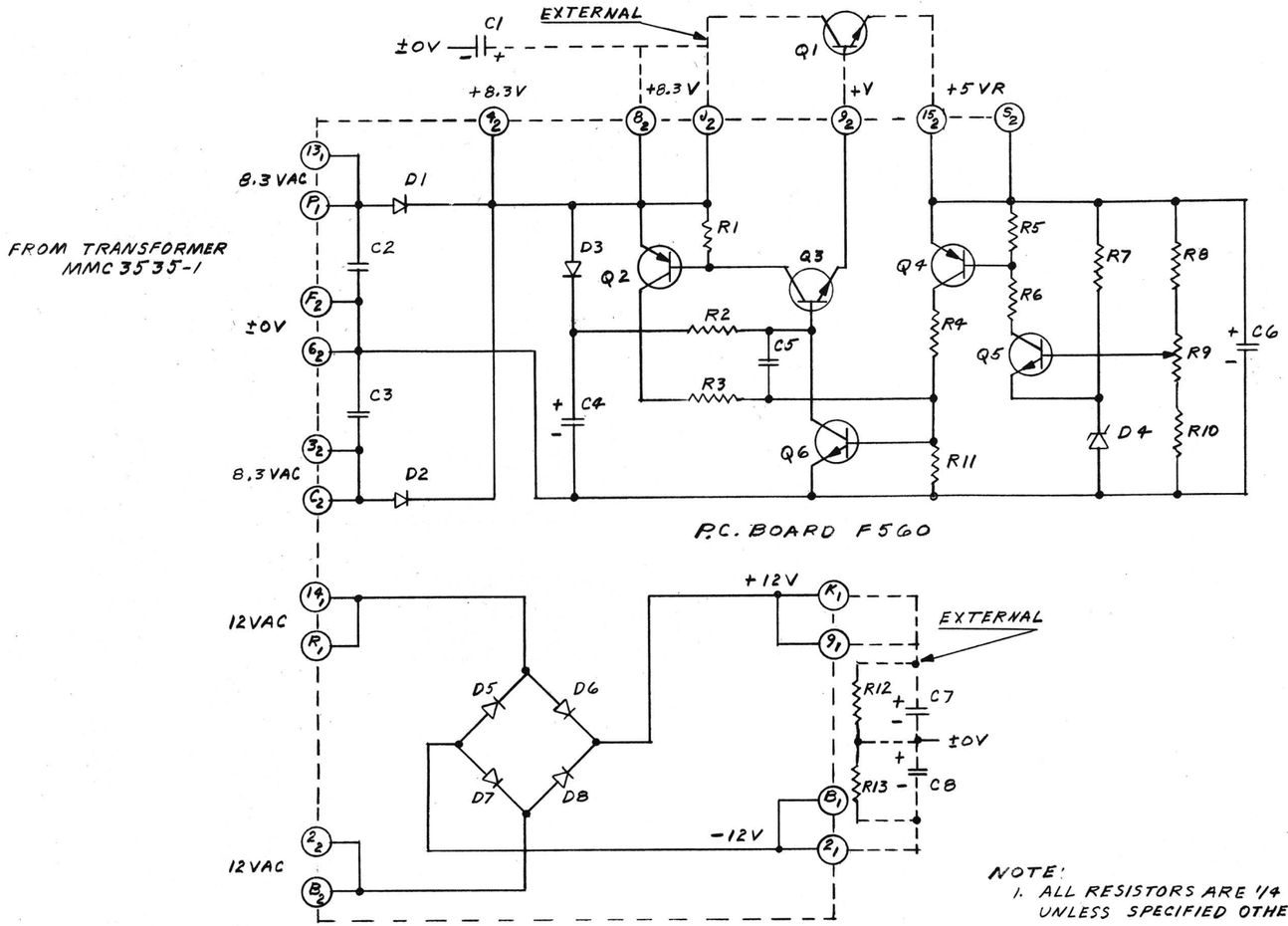
LOCATION	TYPE	W.L. PART NO.	TERM. NO. ±0V	TERM. NO. Vcc +5V	QTY.
L1,2,12	9936	376-0026	7	14	3
L3,13	SN7442N	376-0008	8	16	2
L5	9602	376-0104	8	16	1
L6	9932	376-0046	7	14	1
L7	9946	376-0023	7	14	1
L8,9	9314	376-0108	8	16	2

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		
J. RFA-0533 AT'D: 11-16-73 SEM		
TOL. EX AS NOTED .XX ±.010 .XXX ±.000	FRAC. ±1/ ANG. ±	WANG LABORATORIES INC. TEWKSBURY, MASS.
MODEL NO. 628/FAB	DRAWN GK 2-28-73	APP. SEMO 5/30/73
MATERIAL	CHECKED	APP.
FINISH	SCALE	TITLE SCHEMATIC LOGIBLOC #L557 EXTENDED ROM CONTROL CIRCUIT
W.O. NO.	DWG. NO. C 6427-1	REV.



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

NOTE:
1. ALL RESISTORS ARE ¼ W UNLESS SPECIFIED OTHERWISE.

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

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
703	CHECKED		APP. JM	12/3/70

TITLE SCHEMATIC #F560-1
DC SUPPLY

W.O. NO. | DWG. NO. C 6040-1 | REV. 1

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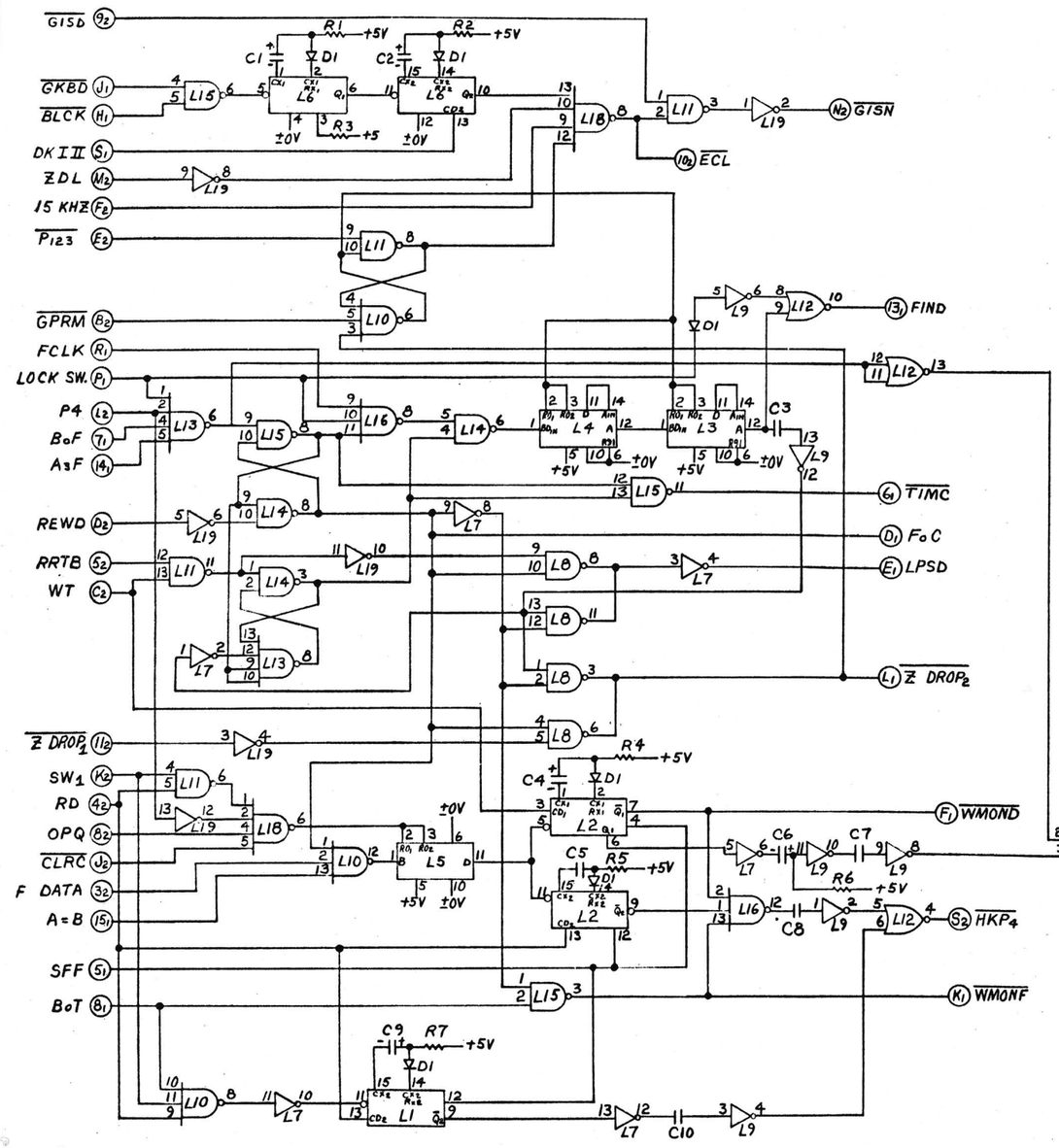
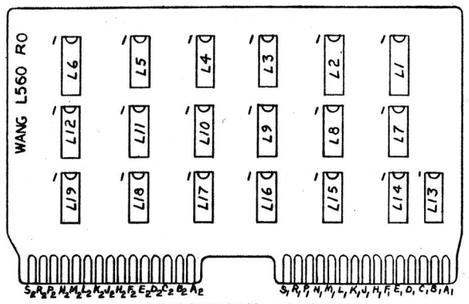
DO NOT SCALE



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

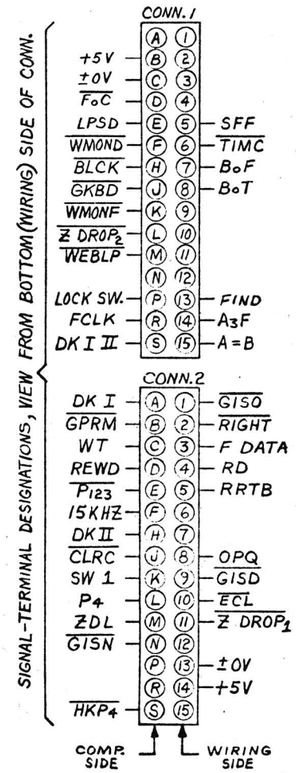


COMPONENT LAYOUT

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	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' 125 FINISH

TITLE SCHEMATIC LOGIBLOC#L560 FORMAT CONTROL LOGIC

SCALE | SHT OF

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

6434-1

DO NOT SCALE

LOCATION	TYPE	W. L. PART No.	TERM. No. V_{cc} +5VR	TERM. No. 10V	QTY
L1, 7	9602	376-0104	16	8	2
L2	SN7410N	376-0003	14	7	1
L3, 13, 9	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	SN7413N	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	WL. PART No.	QTY
R 2, 6	10K 1/4 W	330-4010	2
R3	27K 1/4 W	330-4027	1
R4	4.7K 1/4 W	330-3047	1
R5 (SHARE)	27K 1/4 W	330-4027	
R6	33K 1/4 W	330-4033	1
C8	14μF 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 (SHARE)	18 μF TANT	300-4018	
D5 (SHARE)	SIL DIODE	380-1001	
D1, 2, 3, 4, 6, 7, 8, 9, 10	SIL DIODE	380-1001	9

1st HALF

$\overline{A=BP}$	A1	BOT
+5VR	B2	
10V	C3	
A=B	D4	OPQ
$\overline{P_{123}}$	E5	B_2F
SFF	F6	A, F
B_3F	H7	A_0F
B_0F	J8	P_{123}
$\overline{P_4}$	K7	B_1F
$\overline{DL_{13}}$	L10	AGISO
$\overline{WTST}$	M11	$\overline{GPRM}$
P_1	N12	P_4
P_3	P13	
A_2F	R14	P_2
LPSD	S15	REBL

2nd HALF

WT	A1	WEBL
RD	B2	GOS
ZDL	C3	$\overline{P_2}$
LPS	D4	$\overline{Z\ DROP_1}$
$\overline{RDST}$	E5	$\overline{FOC}$
A_3F	F6	BLCKD
$\overline{MER\ II}$	H7	MERD
DK II	J8	$\overline{BCCL}$
$\overline{LPF}$	K9	FORMAT ENBL II
$\overline{MER\ I}$	L10	$\overline{SFF}$
DK I	M11	ERW
FORMAT ENBL I	N12	ERROR
	P13	IOV
	R14	+5VR
	S15	FIND

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

COMP. SIDE — WIRING SIDE

COMPONENT LAYOUT

L561

L7 L6 L5 L4 L3 L2 L1
L13A L13 L12 L11 L10 L9 L8
L20 L19 L18 L17 L16 L15 L14

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, A1

REVISION	DRWN	CHKD
DATE	1-73	2-1-73
INTERIM RELEASE AFA - 0299 APPD.		
INTERIM RELEASE AFA - 0299 APPD.		

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 72 | DRAWN | CHECKED | APP. | DATE 2-1-73

TITLE: SCHEMATIC LOGIC #L561 CONTROL UNIT I

SHT. | OF | DWG NO. D 6431-1 | REV.

DO NOT SCALE

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

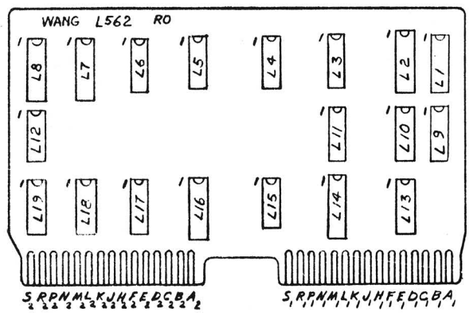
1st HALF

$\overline{HKP_4}$	A	1	$\overline{R_5C}$
+5VR	B	2	
±0V	C	3	
$\overline{BLCK}$	D	4	$\overline{BLCKD}$
REWD	E	5	$\overline{CLRC}$
$\overline{CTUPR}$	F	6	RRTB
CLRLB	H	7	RD
$\overline{GPRM}$	J	8	ERW
$\overline{CTDWL}$	K	9	A<B
$\overline{CTUPL}$	L	10	DK I
$\overline{CTDWR}$	M	11	ZDL
$\overline{GOS}$	N	12	
$\overline{ZDROP_2}$	P	13	
CLRRB	R	14	DK II
REBL	S	15	BCCL

2nd HALF

$\overline{WMOND}$	A	1	$\overline{PRF\ II}$
$\overline{WEBL}$	B	2	$\overline{PRR\ II}$
WEBL	C	3	$\overline{PRF\ I}$
$\overline{WMONF}$	D	4	$\overline{PRR\ I}$
	E	5	
	F	6	$\overline{HILC}$
	H	7	$\overline{HIRC}$
RBK	J	8	$\overline{DL_{13}}$
$\overline{P_4}$	K	9	
$\overline{SFF}$	L	10	$\overline{WEBLP}$
$\overline{FOC}$	M	11	$\overline{FOR}$
MTONC	N	12	$\overline{MTONC}$
	P	13	±0V
	R	14	+5VR
	S	15	

COMP. SIDE — WIRING SIDE



LOCATION	TYPE	W.L. PART No.	TERM. No. V_{CC} +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	.0014μF, 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 030 APP'D:	G.K	5-6-73
2	REVISED PER ECN-3842 APP'D:	G.K	10-22-73

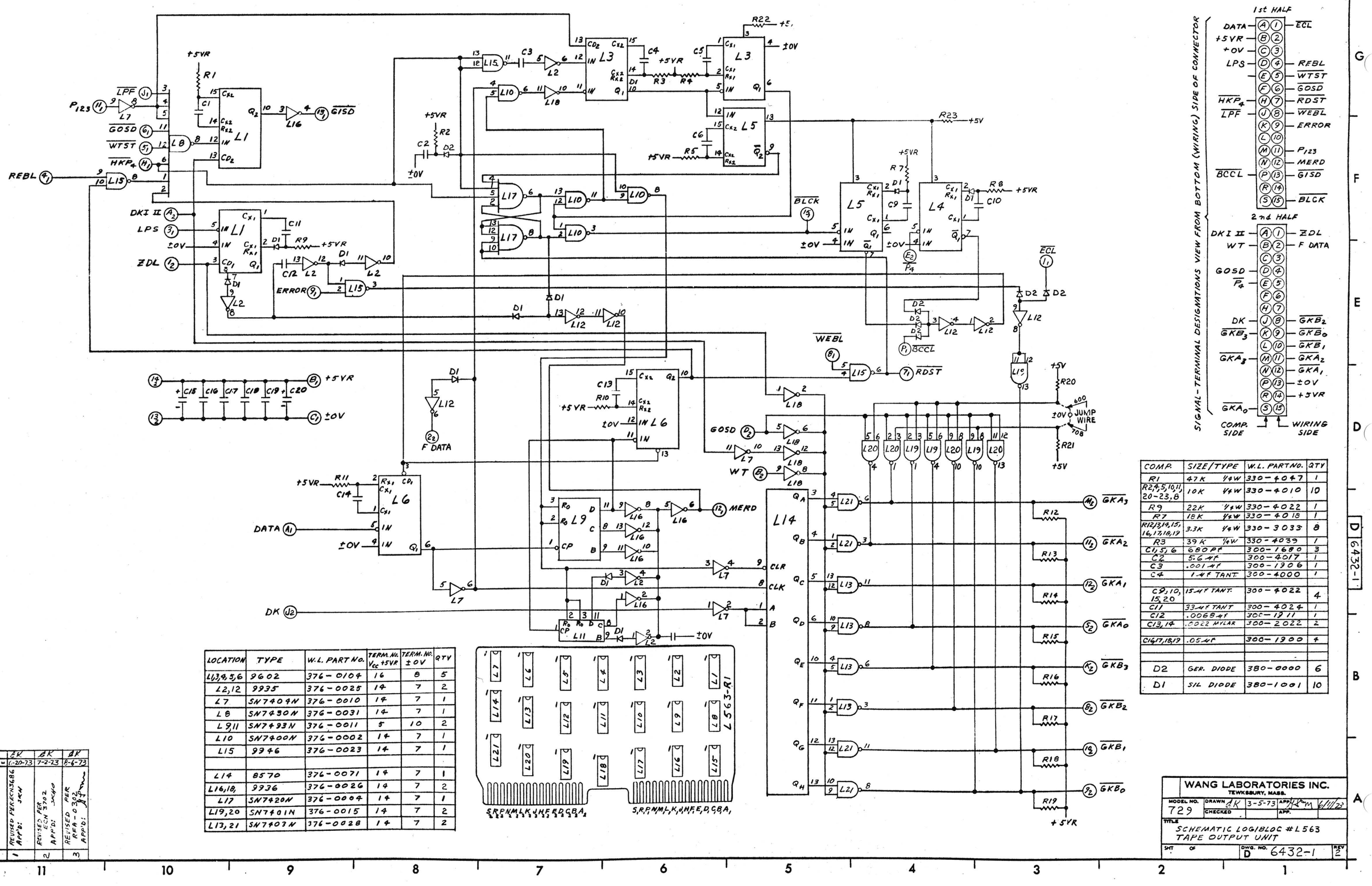
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	CHECKED	APP.	APP.
729	G.K 3-2-73			6/4/73

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 Appr'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: JKW	BK	8-6-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.
729	BK 3-5-73	JKW 6/11/73
	CHECKED	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	300-1470	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
ZDROP 1	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	RCRo
DK II	H 7	RCLo
15 KHZ	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

COMPONENT LAYOUT

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

MAY 19 1977

WANG LABORATORIES INC.
TEWKSBURY, MASS.

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

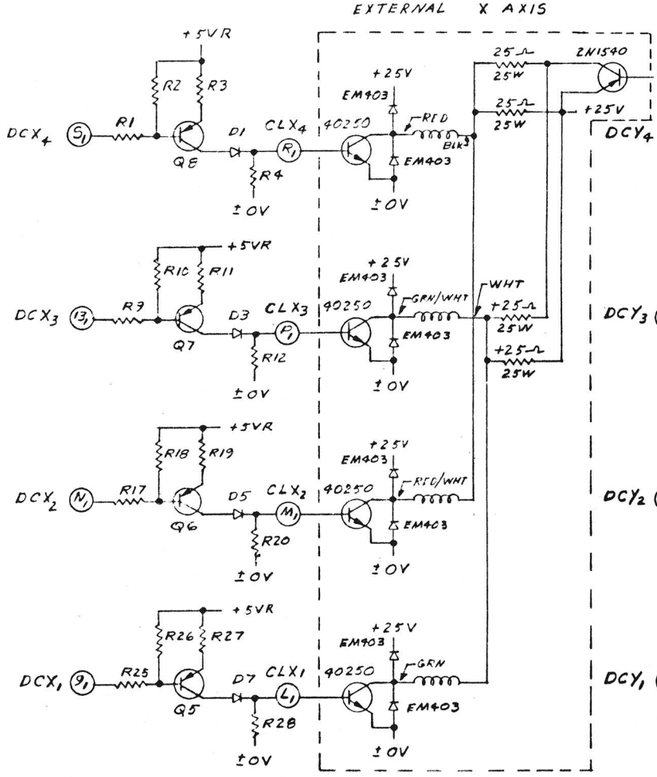
TITLE: SCHEMATIC LOGIBLOC #L564
TAPE WRITE UNIT

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

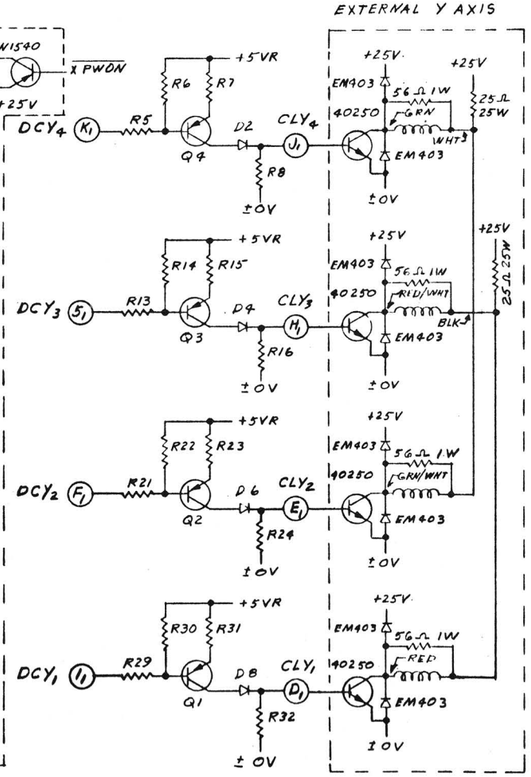
D 6433-1

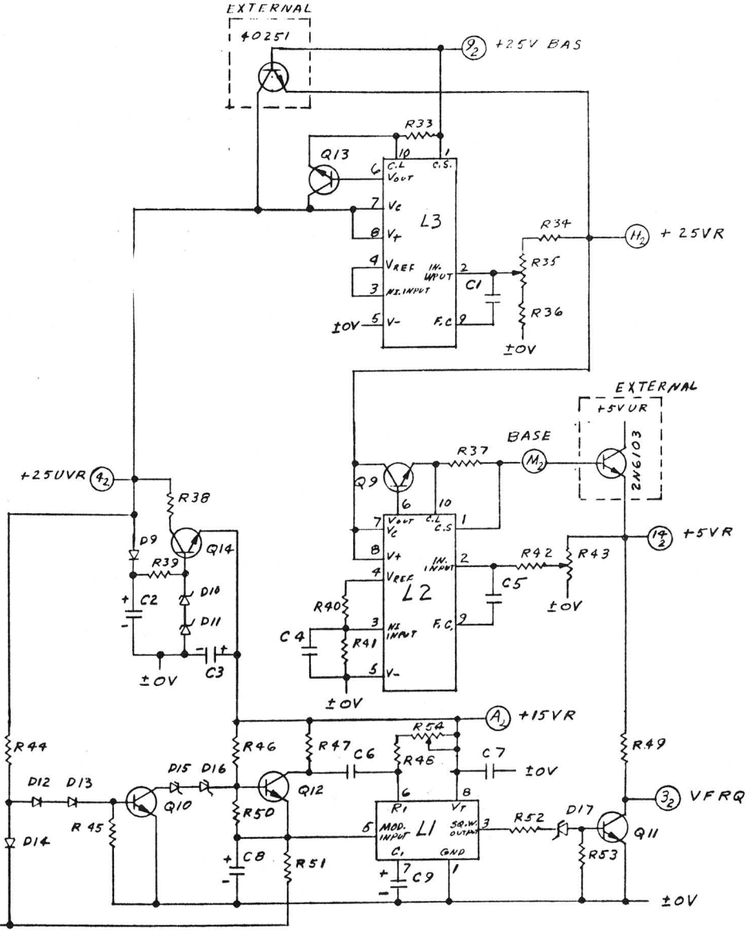
DO NOT SCALE

EXTERNAL X AXIS



EXTERNAL Y AXIS

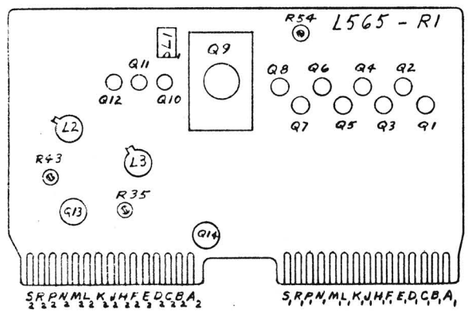




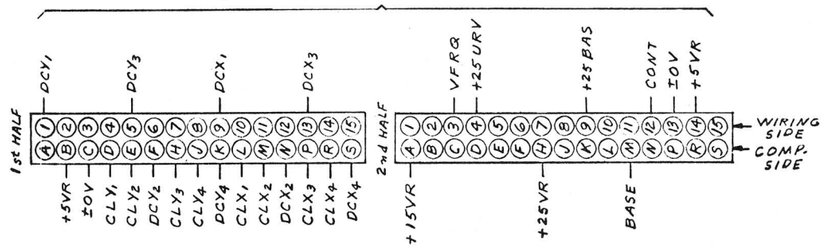
COMPONENT	SIZE/TYPE	W.L. PART NO	QTY
R1, 5, 9, 13, 17, 21, 25, 29,	680Ω 1/4W	330-2068	8
R2, 6, 10, 14, 18, 22, 26, 30, 45, 53	10K 1/4W	330-4010	10
R3, 7, 11, 15, 19, 23, 27, 31	100Ω 1/4W	330-2010	8
R4, 8, 12, 16, 20, 24, 28, 32	1K 1/4W	330-3010	8
R33	2.2Ω 1/2W	331-0022	1
R34	3.3K 1/4W	330-3033	1
R35, 43	1K POT	336-0016	2
R36	1.2K 1/4W	330-3012	1
R37	3.3Ω 1/2W	331-0033	1
R38	120Ω 1/2W	330-2012	1
R39, 42	470Ω 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	330Ω 1/4W	330-2033	1
R47	680Ω 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 MF CER	300-1903	1
C2, 3	33 MF 35V TANT	300-4029	2
C4, 5, 7	.05 MF CER	300-1900	3
C6	.001 MF CER	300-1906	1
C8	47 MF 15V TANT	300-4020	1
C9	.0033 MF MYLAR	300-2033	1
C10, 11	15 MF 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	IN752A 5.6V	380-2056	1
D11	IN754A 10V	380-2100	1
D15, 16	IN753A 6.2V	380-2062	2
D17	IN962B 11V	380-2126	1
Q1, 2, 3, 4, 5, 6, 7, 8	ST574	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

COMPONENT LAYOUT



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



NO	REVISION	BY	DATE
1	REVISED PER ECN 4375 AS NOTED SKH	JSB	3-19-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.	
732	JSB 3-9-73		
	CHECKED SKH	APP.	3/21/73

TITLE: SCHEMATIC LOGIBLOC L565 REGULATOR/STEP MOTOR DRIVER

SHT OF | DWG. NO. D 6436-1 | REV. 1

DO NOT SCALE

STEP (12₂)

RAW SPRKT (A₂)

+5VR

±0V

L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16

C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16

D1 D2 D3 D4 D5 D6 D7

R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22

CH 1 (10₁) CH 2 (11₁) CH 3 (14₁) CH 4 (15₁) CH 5 (R₁) CH 6 (13₁) CH 7 (12₁) CH 8 (F₁)

DAT 0 (7₁) DAT 1 (4₁) DAT 2 (1₁) DAT 3 (A₁) DAT 4 (3₁) DAT 5 (2₁) DAT 6 (5₁) DAT 7 (6₁)

L1 (1₁) ø1 ±0V

M1 (M₁) ø3

K1 (K₁) ø2

B1 C1 E2 14₂ 13₂ XBR +5VR ±0V

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

CONN. 1

DAT 3	A 1		DAT 2
+5VR	B 2		DAT 5
±0V	C 3		DAT 4
	D 4		DAT 1
	E 5		DAT 6
	F 6		DAT 7
	H 7		DAT 0
	J 8		
ø2	K 9		
ø1	L 10		CH 1
ø3	M 11		CH 2
	N 12		CH 7
CH 8	P 13		CH 6
CH 5	R 14		CH 3
	S 15		CH 4

CONN. 2

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

COMP. SIDE — WIRING SIDE

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1	3.3K ¼W	330-3033	1
R2,3,5,6,11,12,13,20	1K ¼W	330-3010	8
R4	15K ¼W	330-4015	1
R7	4.7K ¼W	330-3047	1
R8	27K ¼W	330-4027	1
R9,10	10K ¼W	330-4010	2
R14,15,16	120Ω ¼W	330-2012	3
R17,18,19	2.2K ¼W	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

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

COMPONENT LAYOUT L574

L574 R1

SRPNMLKJHFEDCBA 22222222222222

SRPNMLKJHFEDCBA //////////////

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

IDENT	QTY	NAME	MATERIAL	DESCRIPTION

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

MATERIAL

FINISH

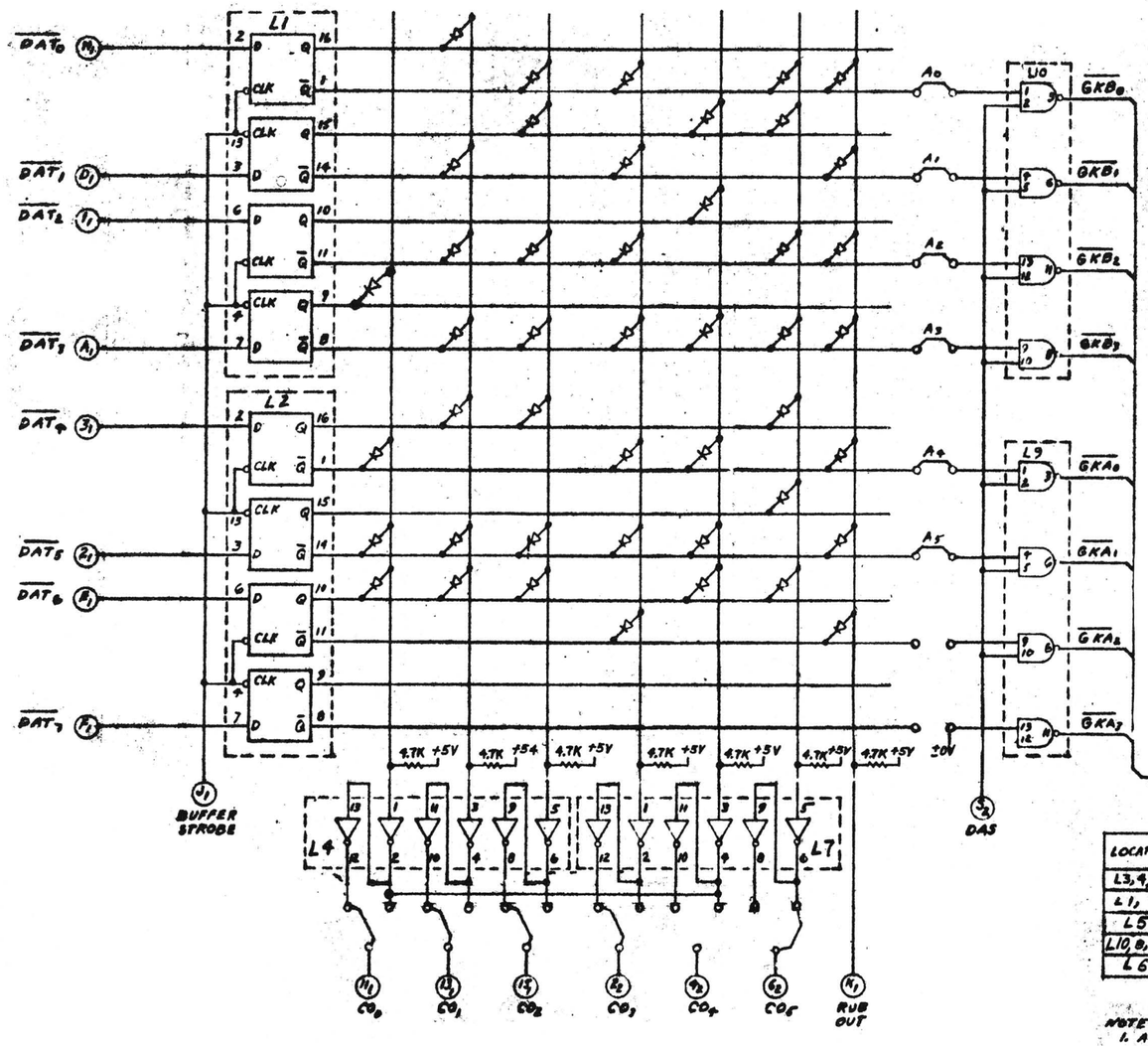
WANG LABORATORIES, INC.
TEWKSBURY, MASS. U. S. A.

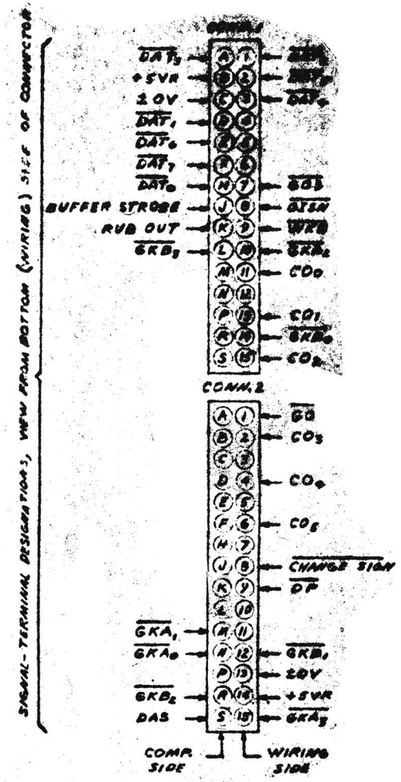
DR F.S.S. DATE 7-2-73
CHK DATE
APPD SKHO DATE 10/31/73

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

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

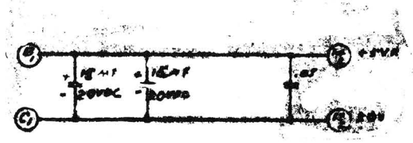
PART NUMBER	REV	SIZE	DRAWING NUMBER
	1	C	6484

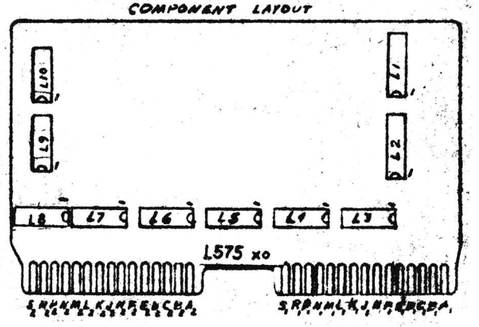




LOCATION	TYPE	WANG LAB. No.	TERM. No Vcc +5VR	TERM. No ±0V	QTY
L3,4,7	9936	376-0026	14	7	3
L1, 2	SN74LS14N	376-0013	5	12	2
L5	9602	376-0104	16	8	1
L10,8,9	9946	376-0023	14	7	3
L6	9583	376-0032	16	7	1

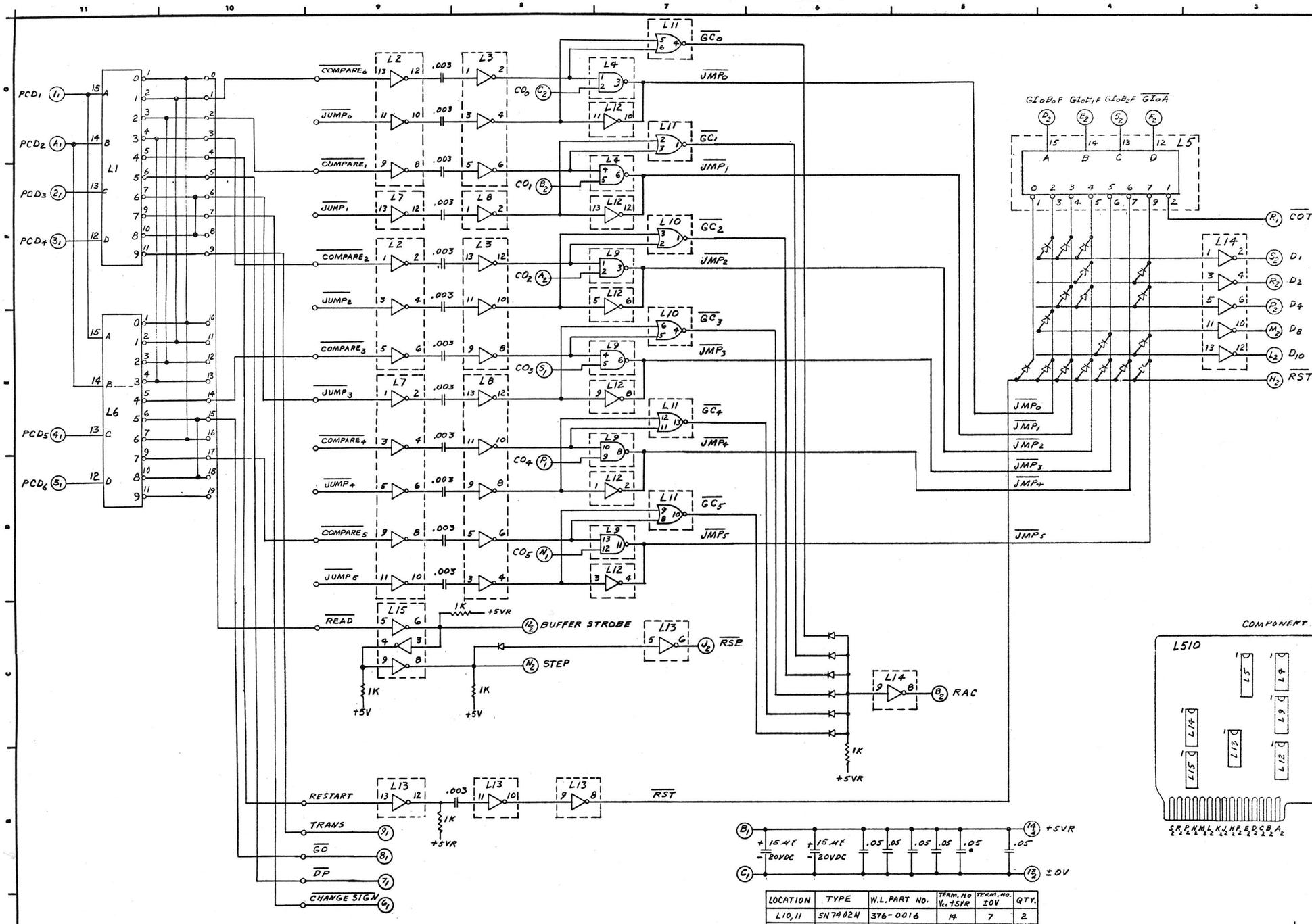
NOTE:-
1. ALL DIODES ARE WL380-1061 (QTY 40)
2. ALL RESISTORS ARE ¼W



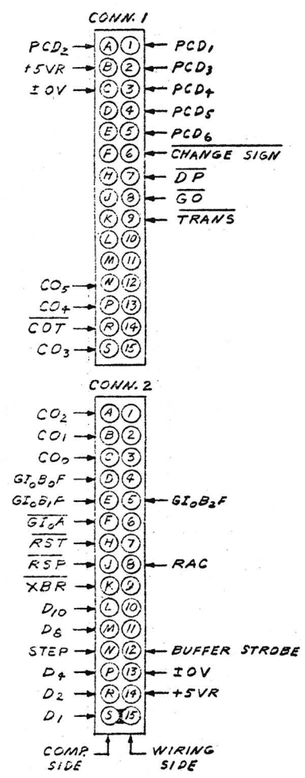


WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.					
MODEL No. 733	W.O. No.				
TITLE SCHEMATIC LOGIBLOC, TAPE READER					
		D	65386-1		

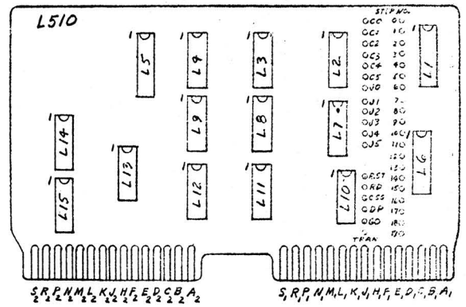
DO NOT SCALE



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



COMPONENT LAYOUT



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

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	LK	DATE 7-24-73
CHK		DATE
APPD	SKH	DATE 11/2/73

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

TITLE SCHEMATIC LOGIBLOC, PROGRAM COUNTER #L576

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

D 6487-1

DO NOT SCALE

BUFFER STROBE (4,)
RUB OUT (H1)
TRANS (92)
GKBD (D2)
ARST (L1)
GPRM (C2)
RAC (62)
GIoBoF (S1)
GIoB1F (12)
GIoB2F (32)
GIoB3F (R1)
GIoAcF (13)
GIoA1F (M1)
GIoA2F (121)
GIoA3F (T1)
IoB1 (61)
IoB3 (51)
GISO (J1)
COT (P1)
XBR (E2)
RST (B1)
XBP (52)
GISN (102)
S&R (J2)
RSP (122)
GOS (112)
GO (72)
DAS (b2)
WKB (K2)
D10 (11)
PCD1 (141)
PCD2 (D1)
PCD3 (21)
PCD4 (31)
PCD5 (F1)
PCD6 (42)
SW1

REV	DATE	BY	REVISION
1	11/8	JK	REVISED ECN-3338 APP'D JKM

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	.0068 μf MYLAR	300-2068	1
C14-18	.05μf 12V	300-1900	5
SW1	G111 WHT. SPST SLIDE SWITCH	325-2104	1
D1	GER. DIODE	380-0000	1
D2	D035 SIL. DIODE	380-1001	9

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

CONN.1

	A 1	D10	
+5VR	B 2	PCD3	
±0V	C 3	PCD4	
PCD2	D 4	BUFFER STROBE	
	E 5	$\overline{IoB_3}$	
PCD5	F 6	$\overline{IoB_1}$	
RUB OUT	H 7	$\overline{GIoA_3F}$	
$\overline{GISO}$	J 8	$\overline{RST}$	
	K 9	D1	
$\overline{ARST}$	L 10	D4	
$\overline{GIoA_1F}$	M 11	D8	
$\overline{GIoA}$	N 12	$\overline{GIoA_2F}$	
$\overline{COT}$	P 13	$\overline{GIoA_0F}$	
$\overline{GIoB_3F}$	R 14	PCD1	
$\overline{GIoB_0F}$	S 15	D2	

CONN.2

$GIoB_0F$	A 1	$\overline{GIoB_1F}$
$GIoB_1F$	B 2	$\overline{GIoB_2F}$
GPRM	C 3	$\overline{GIoB_2F}$
GKBD	D 4	PCD6
$\overline{XBR}$	E 5	XBP
	F 6	RAC
	H 7	GO
S&R	J 8	DAS
$\overline{WKB}$	K 9	$\overline{TRANS}$
	L 10	$\overline{GISN}$
	M 11	$\overline{GOS}$
	N 12	$\overline{RSP}$
	P 13	±0V
	R 14	+5VR
	S 15	

COMP. SIDE — WIRING SIDE

C14 C15 C16 C17 C18 C19 C20
(142) +5V
(132) ±0V

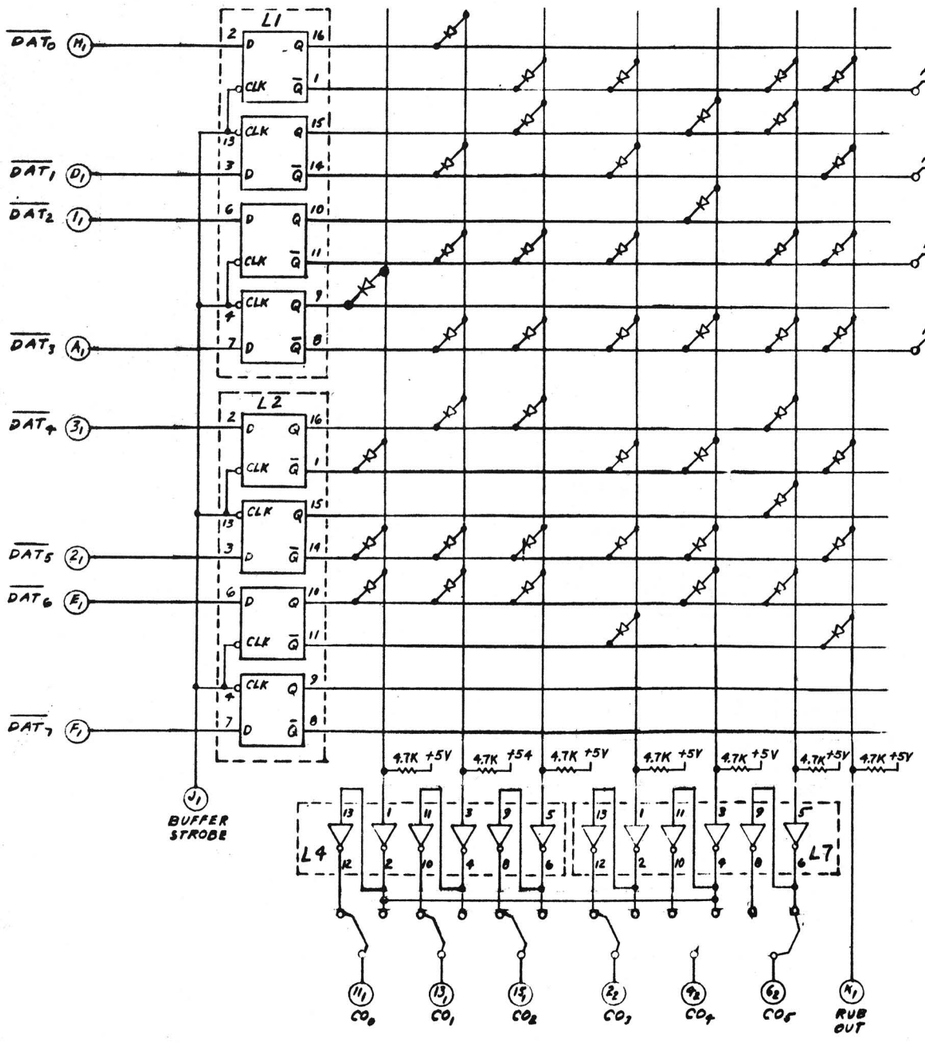
LOCATION	TYPE	W.L.PART NO.	TERM NO. ±0V	TERM NO. Vcc 5VR	QTY
L1,9	SN7476N	376-0007	13	5	2
L2,8,15	9935	376-0025	7	14	3
L3	SN74193N	376-0053	8	16	1
L4,11	SN7410N	376-0003	7	14	2
L5,7	SN7400N	376-0002	7	14	2
L6,12,13,14,16	9936	376-0026	7	14	5
L10	9602	376-0104	8	16	1
L17	9944	376-0024	7	14	1

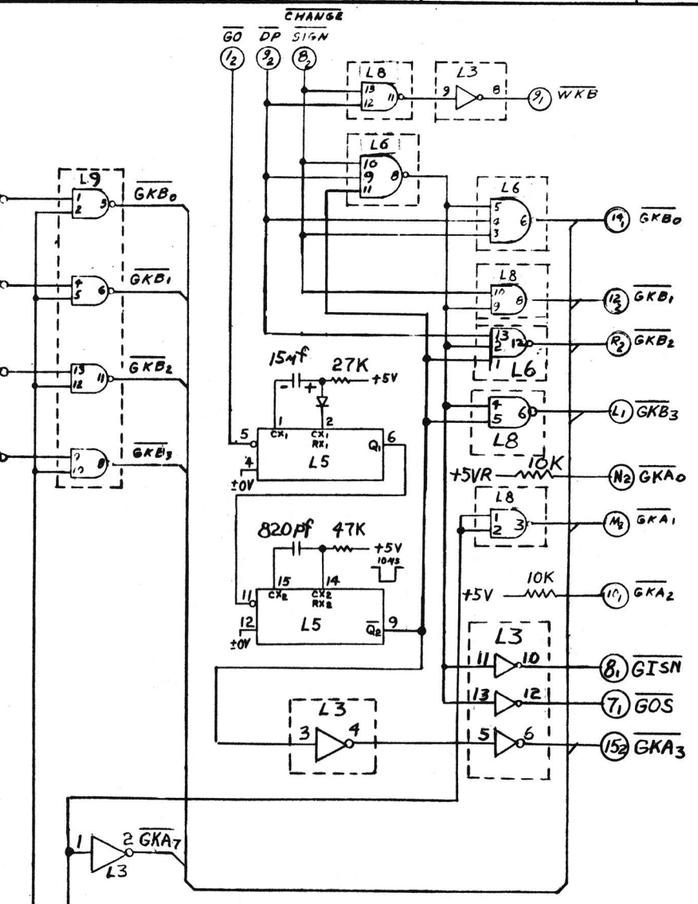
SW.1
WANG L577 RO
S R P N M L K J H F E D C B A
COMPONENT LAYOUT

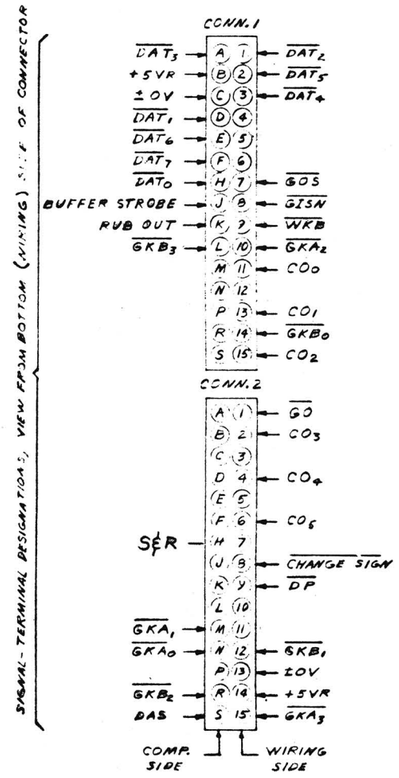
WANG LABORATORIES INC.
TEWKSBURY, MASS.
MODEL NO. 633/733 | DRAWN JK 9-20-[illegible] APP. | CHECKED | APP.
TITLE SCHEMATIC LOGIBLOC # L577 ADDRESS & PROGRAM COUNTER
SHT OF | DWG. NO. D 6488-1 | REV 1

D 6488-1

DO NOT SCALE

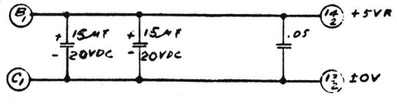




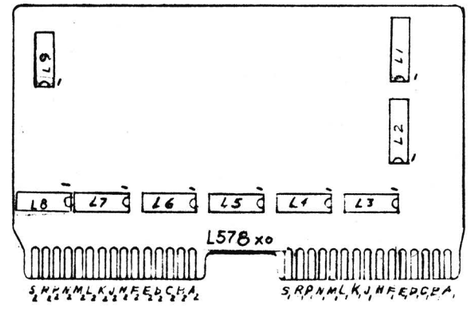


LOCATION	TYPE	WANG LAB. No.	TERM. No Vcc +5VR	TERM. No ±0V	QTY
L3,4,7	9936	376-0026	14	7	3
L1, 2	SN7475N	376-0013	5	12	2
L 8,9	9946	376-0023	14	7	2
L6	9963	376-0033	14	7	1
L5	9602	376-0104	16	8	1

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



COMPONENT LAYOUT



REVISION	BY	DATE

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.

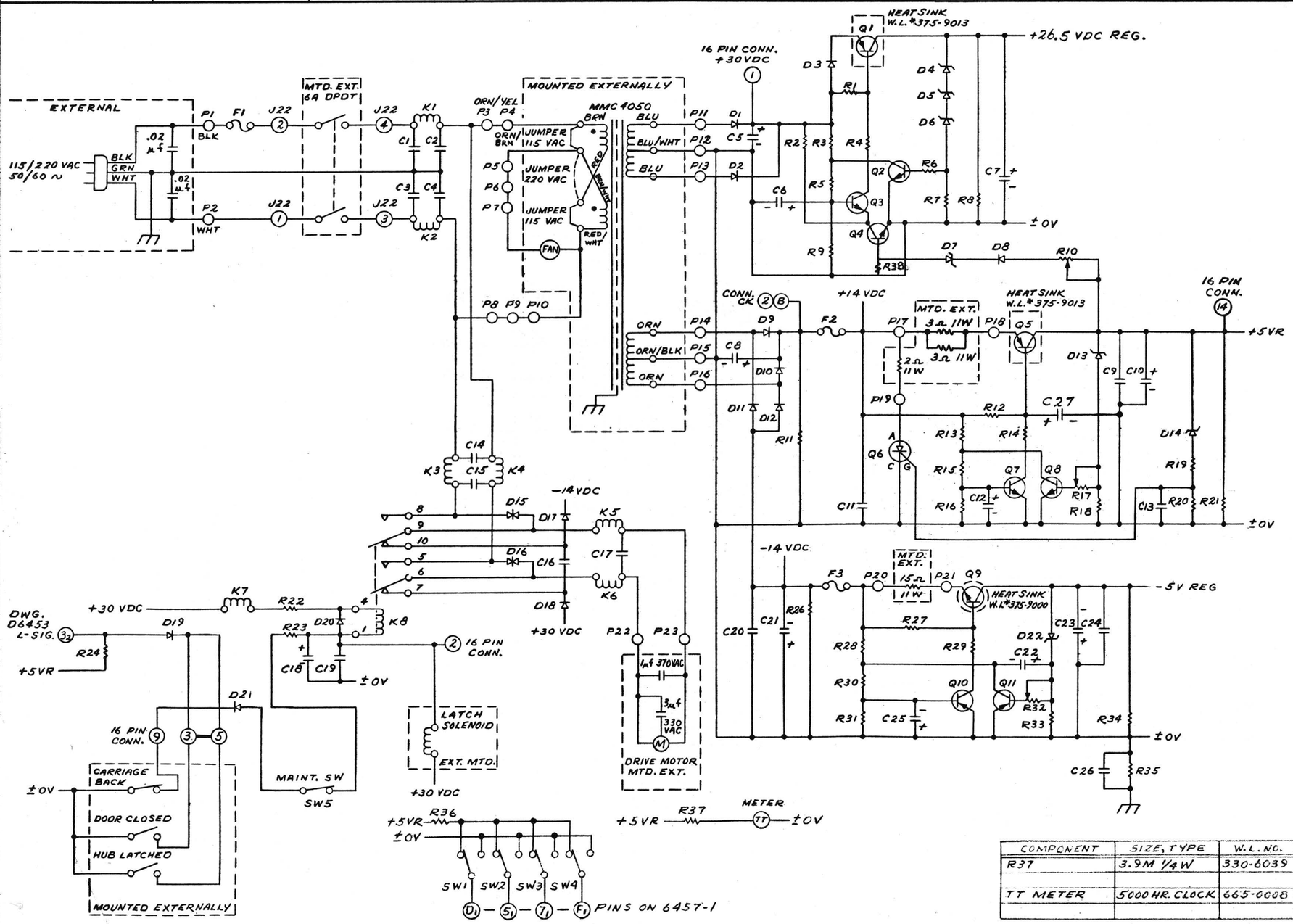
DR SK DATE 9-27-73
CHK DATE
APPD SK DATE 10/21/73

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

TITLE SCHEMATIC LOGIBLOC, TAPE PROGRAM #L578

PART NUMBER REV D SIZE 6489-1 DRAWING NUMBER

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/SCO	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	DATE	BY
1	REVISED: PER E.C.#3037 APP'D.	9-5-72	F.S.S.
2	REVISED: PER E.C.#32 APP'D.	10-5-72	F.S.S.
3	REVISED: PER E.C.#3370 APP'D.	11-2-72	F.S.S.
4	REVISED: PER E.C.#3419 APP'D.	11-14-72	F.S.S.
5	REVISED: PER E.C.#3459 APP'D.	12-5-72	F.S.S.
6	REVISED: PER E.C.#3466 APP'D.	12-15-72	F.S.S.
7	REVISED: PER E.C.#3528 APP'D.	1-26-73	F.S.S.
8	REVISED: PER E.C.#3546 APP'D.	2-14-73	F.S.S.
9	REVISED: PER E.C.#3575 APP'D.	3-5-73	F.S.S.
10	R.F.A. NO. 10114 FOR REVISION TO THIS RMA APP'D.	3-26-73	F.M.
11	REVISED: PER R.F.A.#C18 APP'D.	6-12-73	F.S.S.

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.	
710-1	F.S.S. 9-5-72	CHECKED	APP. 9/8/72

TITLE: SCHEMATIC POWER SUPPLY & MOTHER BOARD #0850

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

D 6450-1

DO NOT SCALE

COMPONENT LAYOUT 0850

J1 0858 · J5 0863 · J9 CK · J19 CL · J22 · F1

SW1 · SW2 · SW3 · SW4 · K8 · J23 · SW5

Q1 HSI

F3 · Q11 · Q9 · Q10 · Q2 · Q3 · Q4 · Q6 · F2 · Q7 · Q8

Q5 HSI

J2 0853 · J6 0854 · J10 0855 · J13 0856 · J16 0857

J3 · J7 · J11 · J14 · J17 · J20 0864

J4 · J8 · J12 · J15 · J18 · J21

0853 · 0854 · 0855 · 0856 · 0857 · 0864

BLK P1 · WHT P2 · P22 · DRIVE P23 · P8 · FAN P5 · BRN/YEL (RED 220 VAC) (ORN 110 VAC) P6 P7 · ORN P3 · BRN P4 · RED/YEL P9 · RED (110VAC) P10 · P21 · P20 · P19 · P17 · P18 · BLUE P11 · BLU/WHT P12 · BLUE P13 · ORN P16 · ORN/BLK P15 · ORN P14

0853 CONN. 1

+5VR A1 · ±0V B2 · B PROBE D4 · B CLR EXA E5 · B FORMAT ENABLE · CLR ADD · FORMAT LOCK SW F6 · B DISK OVF H7 · FORMAT DISK BUTTON J8 · SEL ONE K9 · SEL TWO L10 · B TRK OVF M11 · DIRECTION N12 · X CLOCK P13 · B CLOCK S15 · FORMAT TRACK BUTTON · LOAD ENAB · B PWR CLR

0854 CONN. 1

+5VR A1 · ±0V B2 · B 50 µS (1) F6 · B-C SIG H7 · 0→WRITE ENABLE · B COMP J8 · B PWR CLR L10 · CLR-8 K9 · 1→T.E. M11

0855 CONN. 1

+5VR A1 · ±0V B2 · DATA OUT 00 E5 · DATA OUT 01 F6 · DATA OUT 04 H7 · DATA OUT 05 J8 · DATA OUT 07 K9 · R-W J8 · STROBE DATA OUT L10 · B DISK DATA M11 · ENABLE N12 · ENABLE P13 · DATA 03 R14 · DATA 07 S15 · CONF N12 · DATA 01 P13 · DATA 00 S15 · DATA OUT 06 D4 · DATA OUT 02 E5 · DATA OUT 03 F6

0856 CONN. 1

+5VR A1 · ±0V B2 · DATA 05 E5 · TRACK SW2 H7 · TRACK SW8 J8 · TRACK SW4 K9 · DATA 04 L10 · LOAD 3 M11 · DATA 07 N12 · TRACK SW1 D4 · FORMAT +1 DAR

0857 CONN. 1

+5VR A1 · ±0V B2 · SW1 D4 · DATA 03 E5 · SW4 F6 · LOAD 2 H7 · LOAD 1 J8 · IOB1 K9 · IOB3 L10 · IOB2 M11 · LOAD DATA N12 · R-W P13 · GO R14 · CLR S15 · LOAD 3 A1 · DATA 02 D4 · SW2 E5 · DATA 01 F6 · SW3 H7 · STROBE DATA OUT J8 · DATA 06 L10 · DATA 03 M11

J23

+30V 16 · K8-1 15 · DR. CL. SW. 14 · ±0V 13 · HUB LH. SW. 12 · ±0V 11 · ±0V 10 · CARR. BACK SW. 9 · +5VR 14 · MAG. PICK-UP 13 · MAG. PICK-UP 12

0853 CONN. 2

B GAP A1 · UNIT ON B2 · L-SIG C3 · GO E5 · FOMRAT 1 →WRITE F-F F6 · A SIG H7 · TIMING DATA J8 · B FORMAT TRACK K9 · B-B SIG L10 · B FORMAT ENAB M11 · HOME SW P13 · BSDB 00 · SET BUTTON P14 · B DISK DATA R14 · B-A SIG S15

0854 CONN. 2

PWR. CLR. A1 · B WRITE ENAB B2 · FORMAT WRITE ENAB C3 · DATA 04 D4 · DATA 02 E5 · LOAD 4 F6 · BSDB 00 H7 · CLR J8 · LOAD DATA K9 · SIG. STROBE L10 · B PWR CLR M11 · DATA 06 N12 · ADD COMP P13 · 1 ST WORD R14 · GO S15 · DATA 05 A1 · +1→WC L10 · GO M11 · B GAP N12 · CONF P13 · DATA 01 P13 · DEP R14 · CLR-8 S15

0855 CONN. 2

W-A B2 · EXA 03 E5 · EXA 02 F6 · EXA 00 H7 · EXA 01 J8 · CLK K9 · EXA 04 M11 · TRK SW32 N12 · TRK SW16 P13 · LOAD 2 R14 · DATA 02 S15 · EXA 05 N12

0856 CONN. 2

700/600 GO A1 · TCK SW64 B2 · B FOR ENA D4 · C-P F6 · +1→GO H7 · +1→WC J8 · DATA 06 K9 · DATA 05 L10 · DATA 04 M11 · B SEL ONE ^ TWO N12 · DATA 01 P13 · RUN R14 · ZERO S15 · W-A B2 · DATA 00 E5

0857 CONN. 2

B PWR CLR A1 · +5VR B2 · ±0V C3 · REQ05 D4 · DATA OUT 05 · B PWR CLR E5 · DATA OUT 00 · DATA OUT 07 F6 · DATA OUT 06 · I-O H7 · RUN LIGHT J8 · UNIT ON K9 · DATA 00 · ERROR LIGHT L10 · DATA 01 · ERROR M11 · DATA 02 · ZERO N12 · DATA 03 · DATA OUT 03 P13 · DATA 04 · DATA OUT 04 R14 · DATA 05 S15

0858 CONN. 3

MAGNETIC PICK-UP A1 · MAGNETIC PICK-UP B2 · LOAD 4 C3 · EXA 04 E5 · EXA 05 F6 · B COMP H7 · EXA 00 L10 · EXA 01 M11 · EXA 02 N12 · ±0V P13 · +5VR R14 · WRITE ENABLE 1 A1 · WRITE ENABLE 2 B2 · PULSE C3 · WRITE LOCK TWO ^ HOLD IT. D4 · B WRITE ENAB E5 · DATA ONE · DATA TWO F6 · FORMAT W ENAB H7 · WRITE LOCK ONE J8 · EXA 03 K9 · B WRITE F-F L10 · SELECT ONE M11 · PAR ENAB N12 · (B)8(MC)(CLK) S15

0863 CONN. 3

WORD SYNC A1 · FORMAT WRITE PULSE · B WRITE F-F · SELECT TWO · B SELECT ONE ^ TWO · (B)(8MC)(CLK) · B PAR STROBE · B-C SIG K9 · R-W L10 · C-P M11 · C-P N12 · ±0V P13 · +5VR R14 · ±0V S15

CK CONN. 3

0→WRITE ENAB A1 · CLK B2 · PULSE C3 · CLK D4 · B-B SIG · RUN E5 · B-A SIG F6 · R-W · CONF · B-P · B FORMAT ENAB · B TRACK FORMAT · B TRACK OVF · CONF · STROBE · B DISK OVE · DATA 00 · LOAD1 · ADD COMP · (B) GAP · GO

CL CONN. 3

DATA 01 A1 · (B) PWR CLR C3 · B CLR EXA · CLR ADD D4 · B PWR CLR F6 · ENABLE L10 · (B) PROBE M11 · (B) COMP N12 · ±0V P13 · +5VR R14 · B PAR STROBE S15 · LOAD4 A1 · ERROR B2 · W C3 · DATA 00 D4 · DATA 02 E5 · DATA 01 F6 · DATA 06 H7 · I→T.E. J8 · CLR K9 · REQ0S L10 · CLK M11 · ±0V N12 · +5VR P13 · B PAR STROBE R14 · CHA. GND. S15 · DEP A1 · DATA OUT 01 · DATA OUT 02 B2 · DATA 07 C3 · 700/600 GO · DATA 03 D4 · DATA 04 E5 · DATA 05 F6 · IOB3 H7 · GKBD J8 · GISO K9 · IOB2 L10 · IOB1 M11 · ±0V N12 · ±0V P13 · +5VR R14 · CHA. GND. S15 · R-W CONF L10 · R-W M11 · B PAR ENA D4 · I-O E5 · B-P F6

0864 CONN. 1

PWR. CLR. A1 · +5VR B2 · ±0V C3 · REQ05 D4 · DATA OUT 05 · B PWR CLR E5 · DATA OUT 00 · DATA OUT 07 F6 · DATA OUT 06 · I-O H7 · RUN LIGHT J8 · UNIT ON K9 · DATA 00 · ERROR LIGHT L10 · DATA 01 · ERROR M11 · DATA 02 · ZERO N12 · DATA 03 · DATA OUT 03 P13 · DATA 04 · DATA OUT 04 R14 · DATA 05 S15

CONN. 2

DATA 07 A1 · DATA OUT 02 B2 · W C3 · DATA 03 D4 · DATA OUT 04 E5 · DATA 05 F6 · IOB3 H7 · GKBD J8 · GISO K9 · IOB2 L10 · IOB1 M11 · ±0V N12 · ±0V P13 · +5VR R14 · CHA. GND. S15 · DEP A1 · DATA OUT 01 · DATA OUT 02 B2 · DATA 07 C3 · 700/600 GO · DATA 00 D4 · DATA 02 E5 · DATA 01 F6 · DATA 06 H7 · CLR J8 · CLR K9 · ±0V L10 · ±0V M11 · +5VR N12 · +5VR P13 · B PAR STROBE R14 · CHA. GND. S15

COMP. SIDE · WIRING SIDE

J22

RETURN OUT 3 · 115 VAC OUT 4 · RETURN IN 1 · 115 VAC IN 2

0858 CONN.

+5VR A1 · ±0V B2 · (B) COMP D4 · FORMAT +1→DAR E5 · (B) PROBE F6 · (B) FORMAT ENABLE H7 · FORMAT W PULSE J8 · FORMAT W ENABLE K9 · (B)8(MC)(CLK) L10 · FORMAT 1→WRITE F-F M11

0863 CONN.

+5VR A1 · ±0V B2 · (B) TRACK OVF C3 · (B) PROBE D4 · (B) 50 SEC (1) E5 · =1ST WORD F6 · DATA - H7 · DATA + J8 · DATA ^ + · DATA ^ - · DATA + K9 · TIMING DATA L10

CK CONN.

+26.5 VDC A1 · +5VR B2 · ±0V C3 · +5VDC D4 · -5VDC E5 · ±0V F6 · WRITE ENAB.1 H7 · B WRITE F.F. J8 · DIRECTION K9 · SEL. ONE L10 · ±0V M11 · DATA + N12 · ±0V P13 · DATA - R14 · HOME SW. S15 · B PWR CLR B2 · WRITE ENAB.2 J8 · WRITE F-F K9 · CLOCK L10 · SEL. TWO M11

CL CONN.

CHA. GND. C3 · +5VDC E5 · ±0V F6 · ±0V H7 · FORMAT DISK BUTT. J8 · TRACK SW.1 K9 · TRACK SW.4 L10 · TRACK SW.16 M11 · TRACK SW.64 N12 · WRITE LOCK ONE P13 · RUN LIGHT R14 · SET BUTTON S15 · COPY B→A · FORMAT TRACK BUTTON · TRACK SW. 2 · TRACK SW. 8 · TRACK SW. 32 · FORMAT LOCK SW. · WRITE LOCK ^ HOLD IT · ERROR LIGHT

COMP. SIDE · WIRING SIDE

REVISION	DATE	NO.

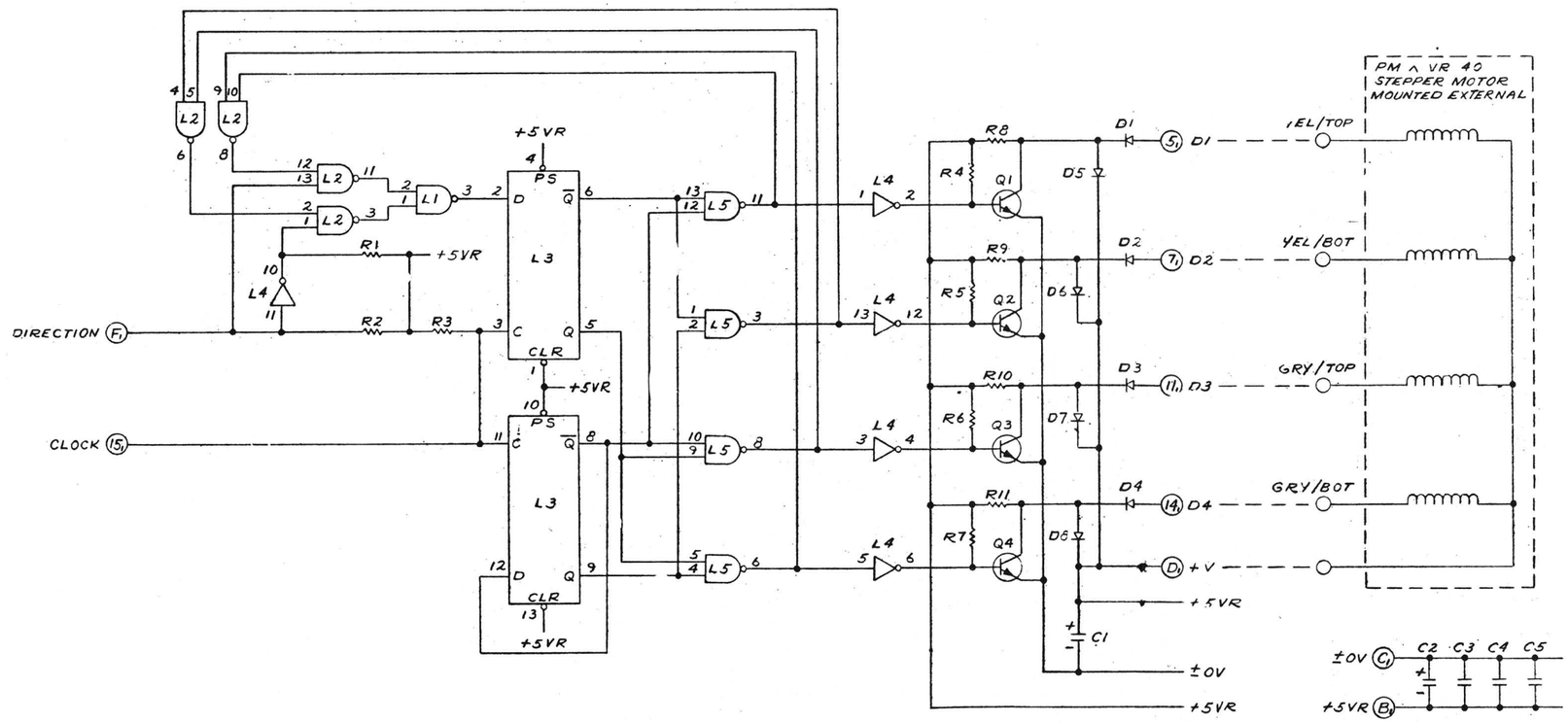
WANG LABORATORIES INC.
TEWKSBURY, MASS.

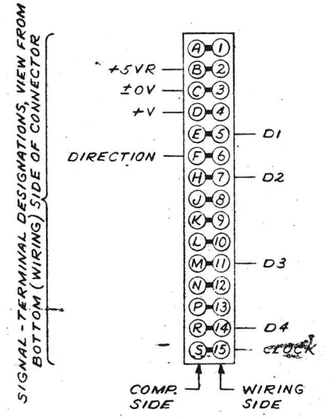
MODEL NO.	DRAWN	APP.	
710-1	F.S.S. 9-5-72	APP.	9/11/72
	CHECKED	APP.	

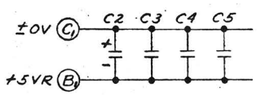
TITLE: SCHEMATIC POWER SUPPLY & MOTHER BOARD #850

SHT 2 OF 2 · DWG. NO. D 6450-1 · REV. H

D 6450-1



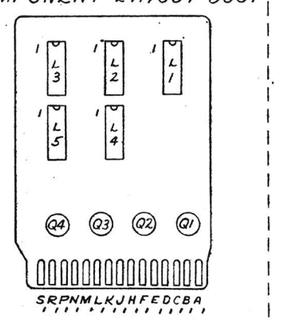




I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1,2,5	SN7400N	376-0002	7	14	3
L3	SN7474N	376-0006	7	14	1
L4	SN7406N	376-0055	7	14	1

COMPONENT	SIZE, TYPE	W.L.NO.	QTY.
R1	4.7K ¼W	330-3047	1
R2,3,8,9,10,11	1K ¼W	330-3010	6
R4,5,6,7	180Ω ¼W	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	IN4607(IN4448)	380-1005	8

COMPONENT LAYOUT 0851



NO.	REVISION	BY	DATE
1	REVISED PER ECO 374 4/14	L.M.	8/2/72

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.	
710-1	F.S.S. 4-24-72		8-2-72
	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 (8₁)
SET BUTTON (14₂)
PRIME BUTTON (15₂)
B DISK OVF (7₁)
LOAD ENABLE (13₁)
FORMAT TRACK BUTTON (12₁)
COPY A-B (2₂)
COPY B-A (1₂)
L-SIG (3₂)
+5VR
+3.5V
±0V
R1 R2 R3 R8 R11
L1 L4 L12 L13 L14 L17 L23 L24 L28 L29
L2 L6 L8 L5 L3 L7 L9 L19 L25 L26 L27
C1 C2
R5 R9
FORMAT ENABLE (4₁)
B TRK B OVL (11₁)
PWR CLR (14₁)
COPY A-B ∧ COPY B-A (15₁)
B CLR EXA (E₁)
LOAD 4 (C₃)
CLR ADD (5₁)
CONNECTED OFF BOARD
B FORMAT TRACK (10₂)
B FORMAT TRACK (5₂)
HOME SW. (13₂)
MAGNETIC PICK-UP (1₃ 2₃)
D1 D2
R12 R13
C6
B PROBE (D₁)
XCLK (P₁)
R14 R15 C7
+5VR.
C8
B CLOCK (S₁)
R4 R6 R7
C3 C4 C5
L10 L11 L15 L20 L21 L22
TS0 TS1 TS2 TS3 TS4 TS5
DIRECTION (N₁)
B COMP (J₃)
9₁ 10₁
SELECT ONE SELECT TWO
R10
L30 L31
A=B A>B OUTPUTS
A<B A=B A>B OUTPUTS
BEXA 4 (E₃) BEXA 5 (F₃)
BEXA 0 (L₃) BEXA 1 (M₃) BEXA 2 (N₃) BEXA 3 (9₃)
C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19
+5VR (B₁) ±0V (C₁) (14₃) (13₃)

NO.	REVISION	BY	DATE
1	REVISED: PER E.C.# 2884 APP'D.	B.E.S.	12/5
2	REVISED: PER E.C.# 2941 APP'D.	E.C.S.	2/25
3	REVISED: PER RFA #0273 APP'D	J.D.	8/2

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.	
710-1	F.S.S. 4-8-72		8-2-72
	CHECKED	APP.	

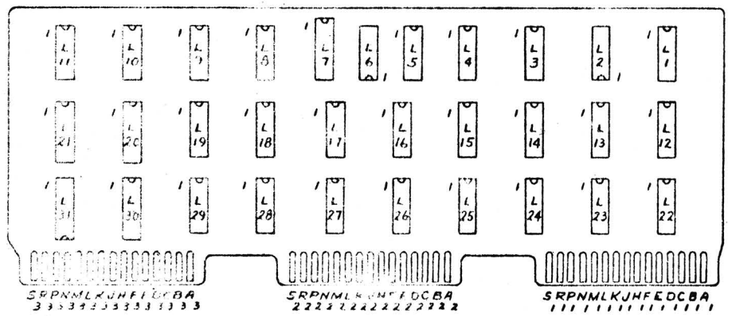
TITLE: BLOCK CIRCUIT DIAGRAM #0853 MOTOR CONTROL LOGIC

SHT 1 OF 2 | DWG. NO. D 6453 | REV. 3

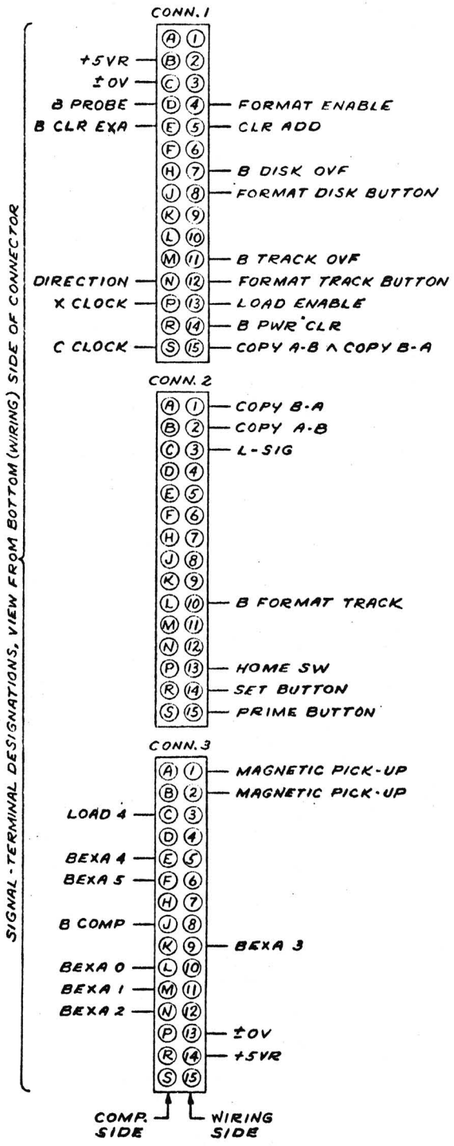
D 6453

DO NOT SCALE

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	376-0006	7	14	5
L4	SN7430N	376-0031	7	14	1
L7,20	SN74193N	376-0053	8	16	2
L9,11	F9601	376-0086	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	376-0037	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.	330-0026	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	1000μf 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 35V 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		APP.	
710-1	FSS	4-10-72		8-2-72
	CHECKED		APP.	

TITLE
BLOCK CIRCUIT DIAGRAM *0853
MOTOR CONTROL LOGIC

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

D 6453

DO NOT SCALE

B DATA + (A_2)
B DATA − (D_2)
B COMP (J_1)
B PWR CLR (L_1)
B FORMAT ENABLE (M_2)
COPY A-B BUTTON (H_1)
LOAD ENABLE (P_1)
DISK OVF (N_1)
HOLD IT (R_1)
COPY B-A BUTTON (S_1)
B TRACK OVF (K_1)
B PROBE (S_1)
B SELECT ONE ∧ TWO (11_3)
SELECT ONE (M_3)
SELECT TWO (10_3)
WRITE LOCK TWO (D_3)
WRITE LOCK ONE (13_3)

B COPY A-B
GAP (B_2)
COPY B-A (B_1)
COPY B-A (4_1)
COPY A-E (E_1)
UNIT ON (C_2)
CLR-B (S_1)
B 50μS (F_1)
COPY WRITE ENABLE (N_2)
TIMING DATA (K_2)
WORD SYNC (J_3)
B WRITE ENAB (E_3)
T-A SIG (J_2)
B-A SIG (S_2)
B-B SIG (L_2)
FORMAT 1 → WRITE F-F (F_2)
B WRITE F-F (L_3)

WRITE ENAB 1 (A_3)
WRITE ENAB 2 (B_3)
COPY B-A (D_1)
PULSE (C_3)
DISK DATA (R_2)
B-C SIG (6_1)
PAR ENAB (N_3)
DATA ONE ∧ DATA TWO (F_3)
GO (E_2)
0 → WRITE ENABLE (7_1)
1-D.R.L. (M_1)
BSDB 00 (P_2)
FORMAT W ENABLE (H_3)
FORMAT WRITE PULSE (23_3)
B WRITE F-F (9_3)

NO.	REVISION	BY	DATE
1	REVISED: PER E.C.# 2885 APP'D	K.W.S.	6/13/72
2	REVISED: PER E.C.# 3111 APP'D	K.W.S.	9/11/72

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.	
710-1	F.S.S. 6-12-72		8-7-72
	CHECKED	APP.	

TITLE: BLOCK CIRCUIT DIAGRAM #0854 READ/WRITE/PARITY CONTROL LOGIC

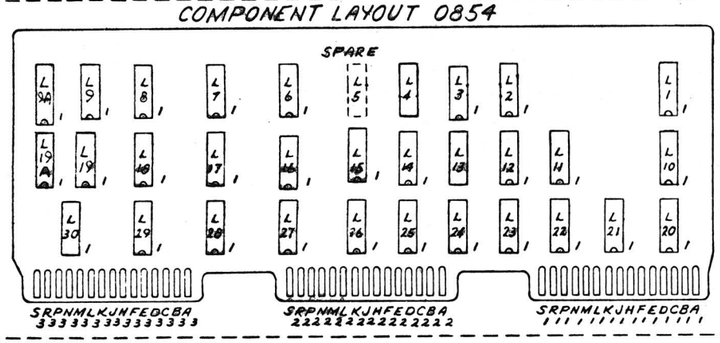
SHT 1 OF 2 | DWG. NO. D 6454 | REV. 2

DO NOT SCALE

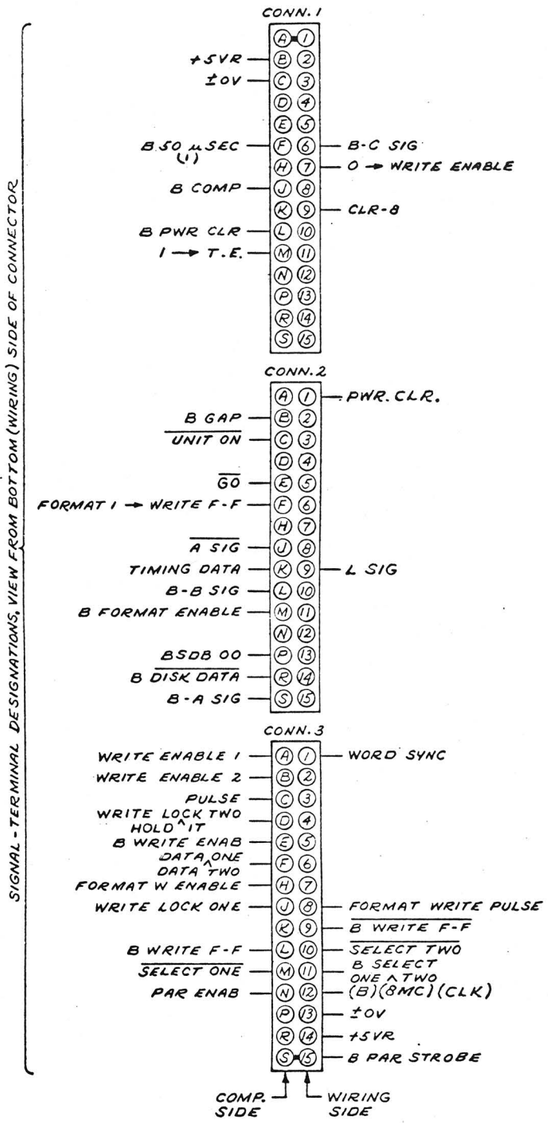
I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1,4,6,10,12,21	F9601	376-0086	7	14	6
L2,7.8,9,23	SN7474N	376-0006	7	14	5
L3,9A	SN74193N	376-0053	8	16	2
L5	SPARE				
L11,14,16,18,24	SN7402N	376-0016	7	14	5
L15,19.20,29	SN7404N	376-0010	7	14	4
L17	SN7410N	376-0003	7	14	1
L19A	SN7473N	376-0005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



D 6454-1

REVISION	DATE	BY
NO		

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 710-1 CHECKED

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

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

DO NOT SCALE

DATA 00 (15₁)
DATA 01 (13₁)
DATA 02 (D₂)
DATA 03 (R₁)
DATA 04 (C₂)
DATA 05 (I₂)
DATA 06 (M₂)
DATA 07 (S₁)
LOAD DATA (J₂)
+1 → WC (10₂)
LOAD 4 (E₂)
B DISK DATA (M₁)
STROBE DATA OUT (10₁)
R-W (8₁)
R-W (L₃)

L22 L21 L20 L23 L24 L14 L13 L12 L11 L15 L2 L1

DATA OUT 00 (E₁)
DATA OUT 01 (F₁)
DATA OUT 02 (S₁)
DATA OUT 03 (6₁)
DATA OUT 04 (H₁)
DATA OUT 05 (J₁)
DATA OUT 06 (4₁)
DATA OUT 07 (K₁)

CLR (H₂) RUN (E₃) +1→GO (S₂) +3.5V GO (R₂) GO (I1₂) ADD COMP (N₂) +3.5V C-P (I1₃) CONF (I2₁) CONF (I3₂) ENABLE (N₁) ENABLE (P₁) R-W CONF (A₃) PULSE (3₃) +3.5V

FORMAT WRITE ENAB (B₂) B WRITE ENAB (A₂) B PWR CLR (L₂)

L6 L3 L5 L8 L28 L18 L4 L9 L10 L1 L16 L17 L19 L26 L27 L29 L7 2.25μS L25

+5V.R R1 C1 C2 C3 C4 C5 C6 ±0V +3.5V R2 R3 R4 R5 +5VR R6 R7 C17

CLR-B (K₃)
B GAP (I2₂)
0→WRITE ENAB (I3₃)
DEP (H3₂)
STROBE (K₂)

B-A SIG (H₃)
B-C SIG (K₃)
C-P (I2₃)
B-B SIG (D₃)
CLK (2₃)
CLK (4₃)
B-P (B₃)
=1ST WORD (P₂)

+5VR (B₁) C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 +5VR (I4₃)
±0V (C₁) ±0V (I3₃)

WANG LABORATORIES INC. TEWKSBURY, MASS.					
MODEL NO. 710-1	DRAWN F.S.S.	8-21-72	APP.		
	CHECKED		APP.		9/11/72
TITLE: BLOCK CIRCUIT DIAGRAM *0855 CONTROL LOGIC ONE					
SHT 1 OF 2	DWG. NO. 6455-1		REV. B		

D 6455-1

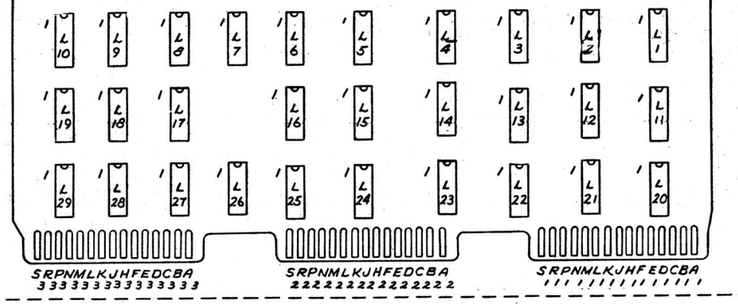
REVISION BY DATE NO

DO NOT SCALE

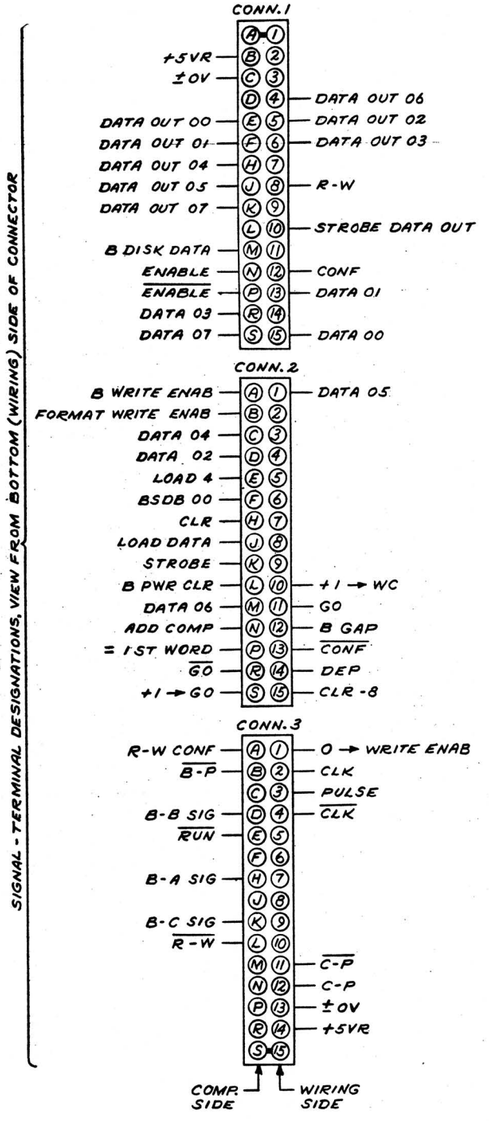
I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1,2,4,26	SN7402N	376-0016	7	14	4
L3,5,6,8,18,28	SN7474N	376-0006	7	14	6
L7	F9601	376-0086	7	14	1
L9	SN7410N	376-0003	7	14	1
L10,16	SN7400N	376-0002	7	14	2
L11,13,20,22	SN7475N	376-0013	12	5	4
L12,21	SN7495N	376-0059	7	14	2
L14,24,25	SN74193N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



BY	DATE

REVISION

NO.

WANG LABORATORIES INC. TEWKSBURY, MASS.				
MODEL NO. 710-1	DRAWN F.S.S.	6-21-72	APP.	9/1/72
	CHECKED		APP.	
TITLE BLOCK CIRCUIT DIAGRAM * 855 CONTROL LOGIC ONE				
SHT 2 OF 2	DWG. NO. D 6455-1			REV.

D 6455-1

DO NOT SCALE

LOAD 2 (R_2)
DATA 00 (K_3)
DATA 01 (I_3)
DATA 02 (S_2)
±0V
LOAD 3 (M_1)
(B) GAP (N_3)
(B) TRACK FORMAT (B_3)
DATA 00
(B) TRACK OVF (E_3)
(B) COMP (I_2)
GO (S_3)
(B) PROBE (I_1)
DATA 04
DATA 05
DATA 06
DATA 07
DATA 00
DATA 01
DATA 02
DATA 03
+3.5V
CLK (K_2)
FORMAT +1 DAR (S_1)
ENABLE (I_0)
W-A (B_2)
ADD COMP (M_3)
STROBE (H_3)
+5VR
R1
R2
R3
C1
EXA 04 (M_2)
EXA 05 (I_2)
(B) DISK OVE (J_3)
EXA 00 (H_2)
EXA 01 (J_2)
EXA 02 (F_2)
EXA 03 (E_2)
C2 C3 C4 C5 C6 C7
CB C1
TRACK SW1 (4_1)
DATA 03 (11_1)
TRACK SW2 (H_1)
DATA 04 (L_1)
TRACK SW4 (K_1)
DATA 05 (E_1)
TRACK SW8 (J_1)
DATA 06 (10_1)
TRACK SW16 (P_2)
DATA 07 (N_1)
TRACK SW32 (N_2)
(B) FORMAT ENABLE (A_3)
CLR EXA (4_3)
CLR ADD (5_3)
LOAD 1 (L_3)
(B) PWR CLR (3_3)

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	MS8242	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

CONN.1
+5VR
±0V
DATA 05 — TRACK SW1, FORMAT +1 DAR
TRACK SW2
TRACK SW8
TRACK SW4
DATA 04 — DATA 06
LOAD 3 — DATA 03
DATA 07

CONN.2
W-A
EXA 03
EXA 02
EXA 00
EXA 01
CLK
EXA 04 — EXA 05
TRACK SW32
TRACK SW16
LOAD 2
DATA 02

CONN.3
(B) FORMAT ENAB — DATA 01
(B) TRACK FORMAT — (B) PWR CLR
(B) CLR EXA
(B) TRACK OVF — CLR ADD
CONF
STROBE
(B) DISK OVE
DATA 00 — LOAD 1
ADD COMP — (B) PROBE
(B) GAP — (B) COMP
±0V
+5VR
GO
COMP. SIDE — WIRING SIDE

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

COMPONENT LAYOUT 0856

SPARE
SRPNMLKJHFEDCBA
3333333333333333
2222222222222222
1111111111111111

REVISION	BY	DATE
NO.		

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.	
710-1	F.S.S. 9-2-72		7/11/72
	CHECKED	APP.	

TITLE: BLOCK CIRCUIT DIAGRAM *0856 CONTROL LOGIC TWO

SHT 1 OF 1 — DWG. NO. D 6456-1 — REV.

D 6456-1

DO NOT SCALE

MOUNTED ON MOTHER BD.

+5VR
±0V
SW1 SW2 SW3 SW4

DATA 00 (S2)
DATA 01 (6)
DATA 02 (4)
DATA 03 (E)
DATA 04 (M2)
DATA 05 (L2)
DATA 06 (K2)
IOB3 (L1)
IOB2 (M1)
IOB1 (K1)
GISO (W3)
TRACK SW 64 (C2)
B FORMAT ENABLE (D2)
DATA 01 (P2)
W (33)
W-A (22)
DATA 07 (23)

GKBD STROBE DATA OUT (K3)
700/600 GO (A2)
B PWR CLR (H3)
REQOS (10)
GO (15)
CLR (S1)
GO (R1)
C-P (F2)
B-P (F3)
I→T.E. (B3)
RUN (R2)
ERROR (B3)

LOAD 2 (H1)
LOAD 1 (J1)
LOAD 3 (11)
LOAD 4 (A3)
SEL ONE ^ TWO (N2)
LOAD DATA (N1)
R-W (P1)
R-W (M3)
ENABLE (L3)
DEP (13)
I-O (E3)
B PAR STROBE (S3)
PAR ENAB (D3)
ZERO (S2)
+1→GO (H2)
+1→WC (J2)
R-W CONF (113)
CLK (123)

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

I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1,2,3,34,4,6,8,17,21,30	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	F5601	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

CONN. 1

	A 1	LOAD 3
+5VR	B 2	
±0V	C 3	
SW1	D 4	DATA 02
DATA 03	E 5	SW2
SW4	F 6	DATA 01
LOAD 2	H 7	SW3
LOAD 1	J 8	STROBE DATA OUT
IOB1	K 9	
IOB3	L 10	
IOB2	M 11	
LOAD DATA	N 12	
R-W	P 13	
GO	R 14	
CLR	S 15	GO

CONN. 2

700/600 GO	A 1	
	B 2	W-A
TCK SW 64	C 3	
B FOR ENA	D 4	
	E 5	DATA 00
C-P	F 6	
+1→GO	H 7	
+1→WC	J 8	
DATA 06	K 9	
DATA 05	L 10	
DATA 04	M 11	
BSEL ONE ^ TWO	N 12	
DATA 01	P 13	
RUN	R 14	
ZERO	S 15	

CONN. 3

LOAD 4	A 1	DEP
ERROR	B 2	DATA 07
	C 3	W
(B) PAR ENAB	D 4	
I-O	E 5	
B-P	F 6	
B PWR CLR	H 7	
	J 8	1→T.E.
GKBD	K 9	
ENABLE	L 10	REQOS
R-W	M 11	R-W CONF
GISO	N 12	CLK
	P 13	±0V
	R 14	+5VR
	S 15	B PAR STROBE

COMP SIDE — WIRING SIDE

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

COMPONENT LAYOUT 0857

0857 R5

SRPNMLKJHFEDCBA 3333333333333333
SRPNMLKJHFEDCBA 2222222222222222
SRPNMLKJHFEDCBA 1111111111111111

NO.	REVISION	BY	DATE
1	REVISED: PER E.C.#3254 ADD'D.		10 F. 9 S. 72 S.
2	REVISED: PER E.C.#3443 ADD'D.		12 F. 9 S. 72 S.
3	REVISED: PER E.C.#3499 ADD'D.		2 F. 9 S. 73 S.
4	REVISED: PER E.C.#3499 ADD'D.		2 F. 6 S. 73 S.
5	REVISED: PER E.C.#3499 ADD'D.		6 F. 12 S. 73 S.

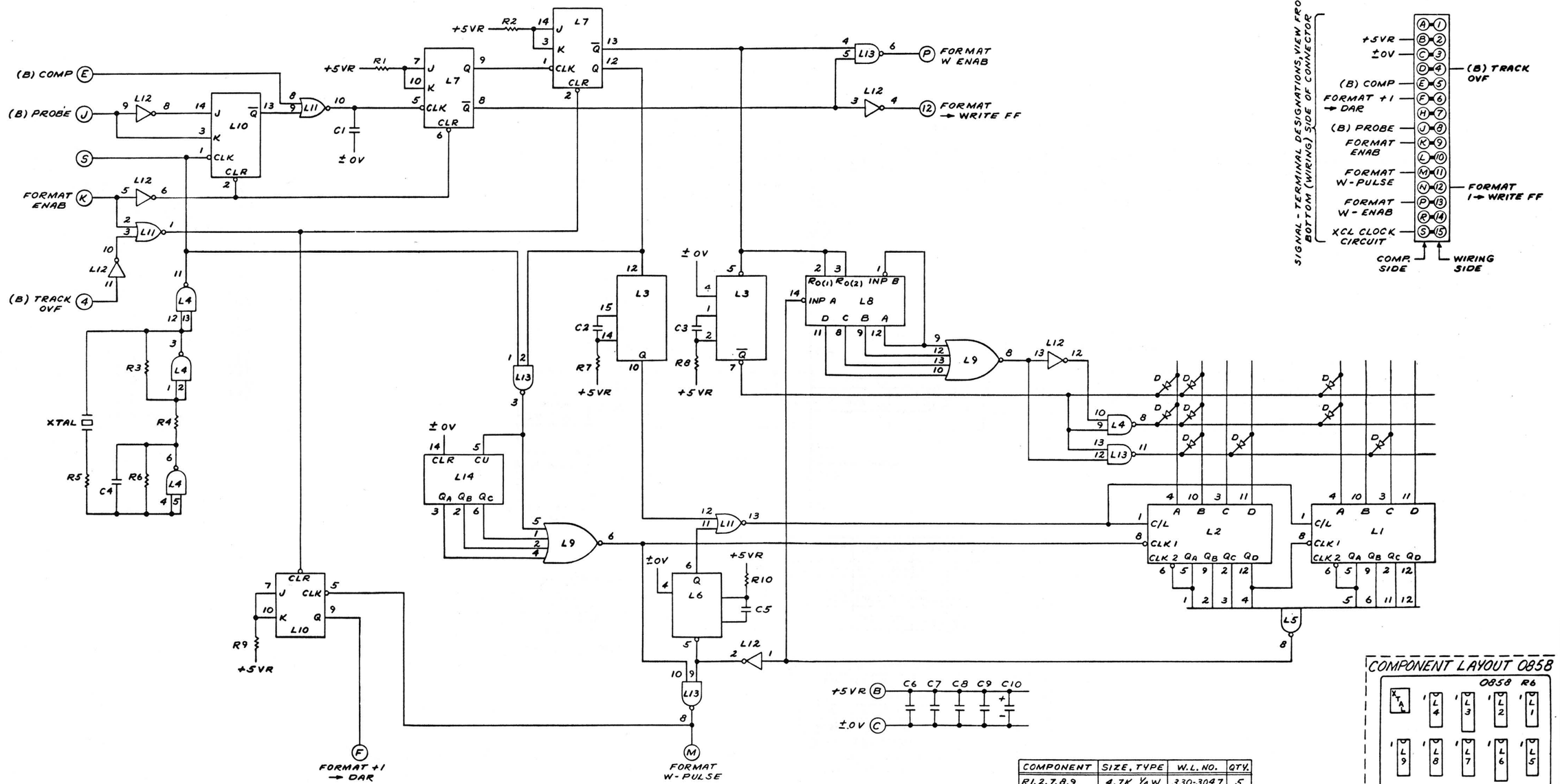
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.	
710-1	F.S.S. 5-21-72	APP.	9/11/72
	CHECKED	APP.	

TITLE: BLOCK CIRCUIT DIAGRAM # 0857 I-O INTERFACE

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

D 6457-1



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	IN4607 HI SPEED	380-1005	9

COMPONENT LAYOUT 0858

0858 R6

SRPNMLKJHFEDCBA

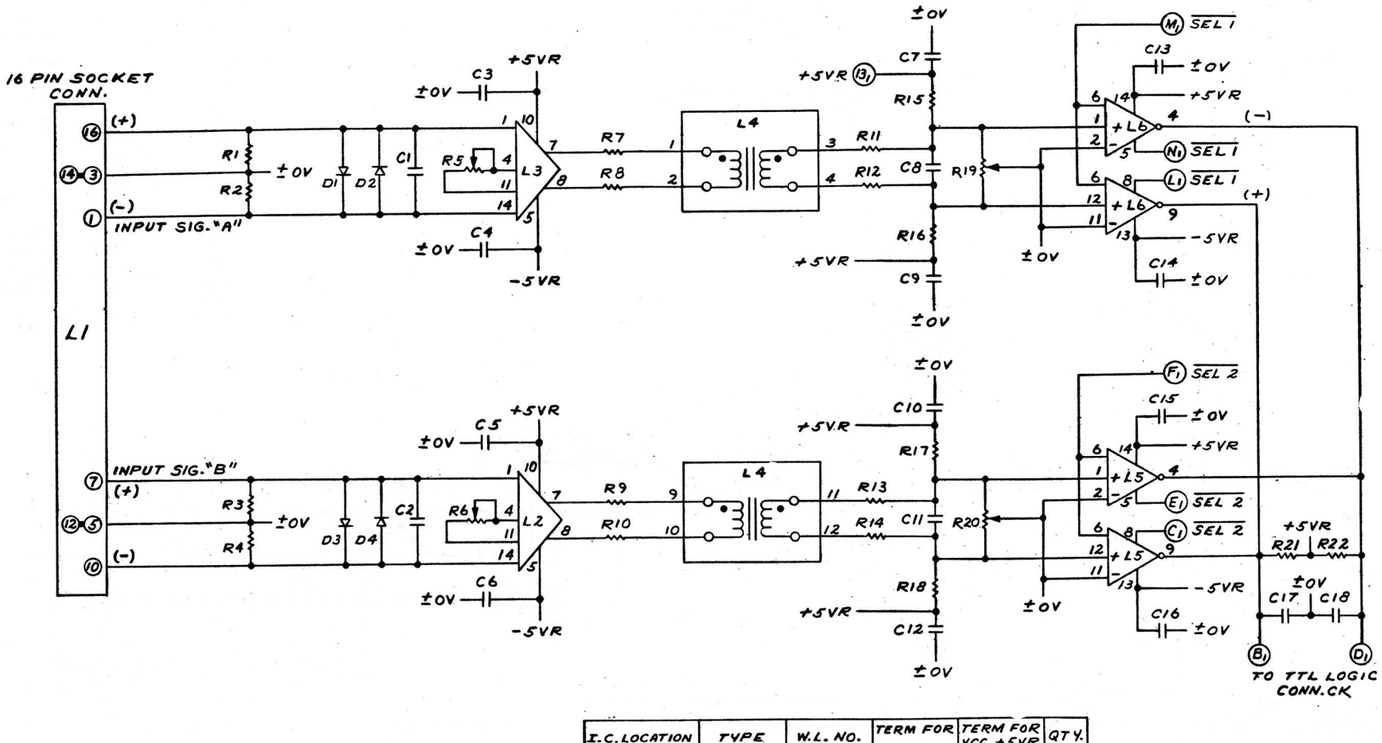
NO.	REVISION	BY	DATE
1	REDRAWN WITH CHANGES, SEE OBSOLETE DWG. 6458-1, REV. 2 PER E.C.# 3465	J.F.	2/5/73
2	REVISED PER E.C.# 3553 APPD.	A.F.	3/7/73

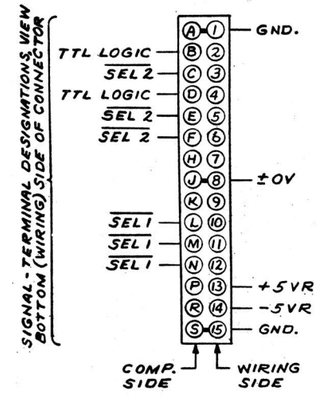
WANG LABORATORIES INC.
TEWKSBURY, MASS.

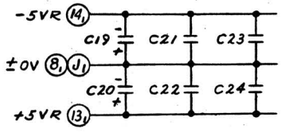
MODEL NO.	DRAWN	APP.	
710-1	F.S.S. 1-22-73		3-7-73
	CHECKED	APP.	

TITLE: BLOCK CIRCUIT DIAGRAM #0858 FORMAT WRITER LOGIC

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



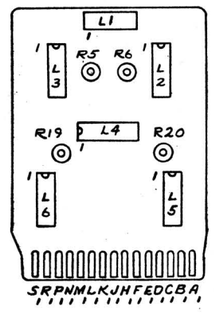




I.C. LOCATION	TYPE	W.L. NO.	TERM FOR		TERM FOR VCC +5VR	QTY.
L2,3	N5733A	376-0088	-5V	5	10	2
L4	24Z805	410-1004				1
L5,6	SN75108A	376-0089	±0V	7	14	2
L1	I.C. 14 PIN SOCKET	376-9001				1

COMPONENT	SIZE, TYPE	W.L.NO.	QTY.
R1,2,3,4,11,12,13,14	47Ω ¼ 5%	330-1048	8
R5,6	TRIMPOT 100Ω	336-1008	2
R7,8,9,10	100Ω ¼W 5%	330-2011	4
R15,16,17,18	33K ¼W 5%	330-4034	4
R21,22	4.7K ¼W 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 APPD.	12	E. J.S.
		19	J.S.
		72	J.S.
2	REVISED: PER E.C.#3854 ADD 74H	6	E. J.S.
		14	J.S.
		73	J.S.

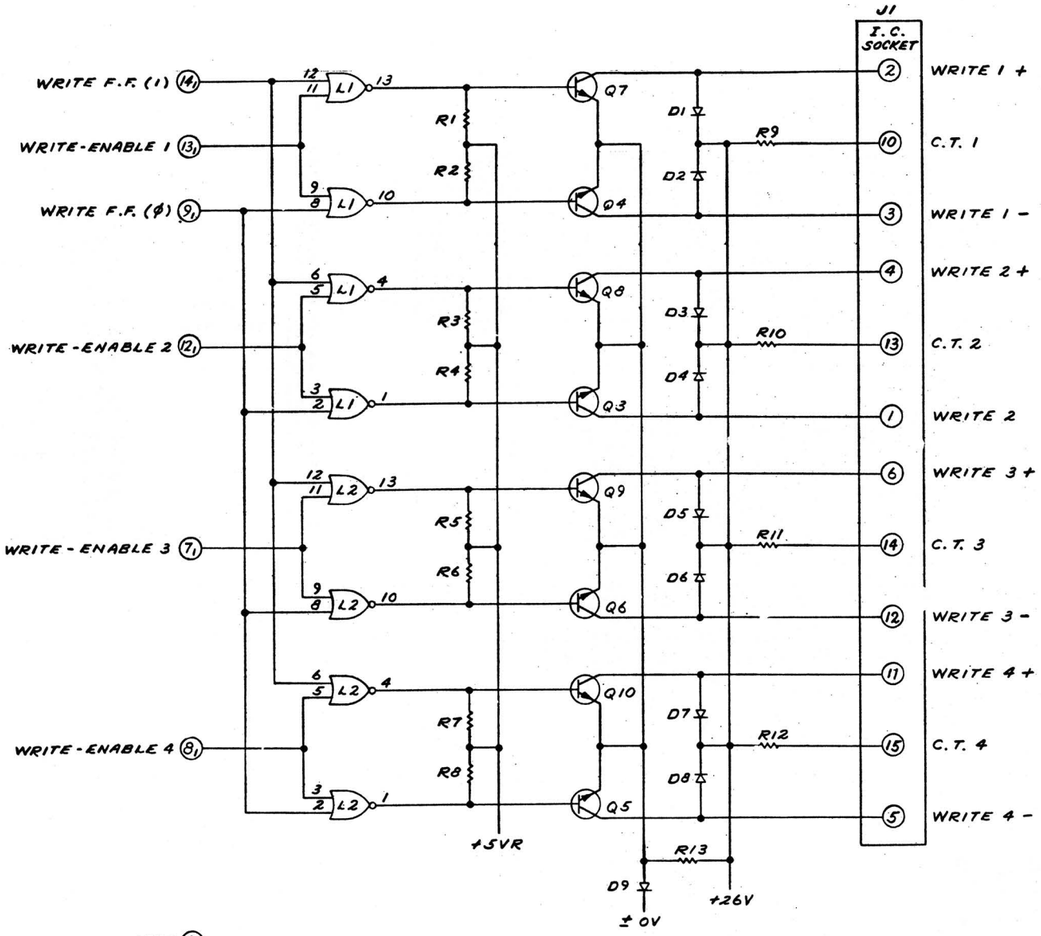
WANG LABORATORIES INC.
TEWKSBURY, MASS.

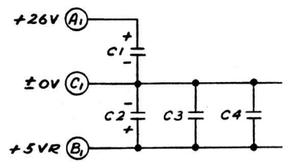
MODEL NO.	DRAWN	APP.	
710-1	F.S.S. 8-28-72		9/11/72
	CHECKED	APP.	

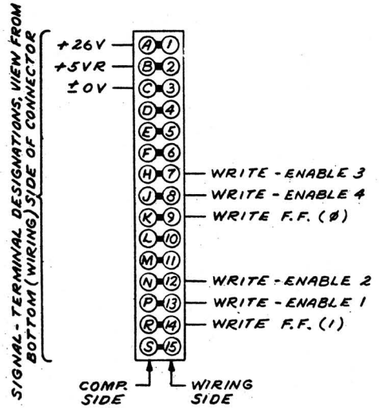
TITLE: BLOCK CIRCUIT DIAGRAM *0861 READ AMPLIFIER

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

D 6461-1



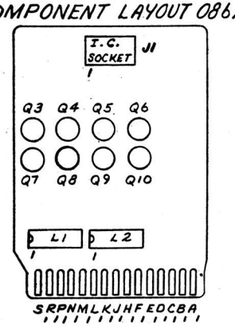




COMPONENT	SIZE, TYPE	W.L.NO.	QTY.
R1,2,3,4,5,6,7,8	1K 1/4 W 10%	330-3010	8
R9,10,11,12	220Ω 2W 10%	337-2022	4
R13	4.7K 1/4 10%	330-3047	1
C1	50μf 50V	300-3010	1
C2	35μf 15V	300-3009	1
C3,4	.01μf 100V	300-2110	2
Q3,4,5,6,7,8,9,10	2N5189 SIL.	375-1021	8
D1,2,3,4,5,6,7,8,9	IN4607(IN4448)	380-1005	9
J1	14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

COMPONENT LAYOUT 0862



NO.	REVISION	DATE	BY
1	REVISED: PER E.C.# 3449 ADD: 8 ~~9~~ 11	12 FEB 73	TSS

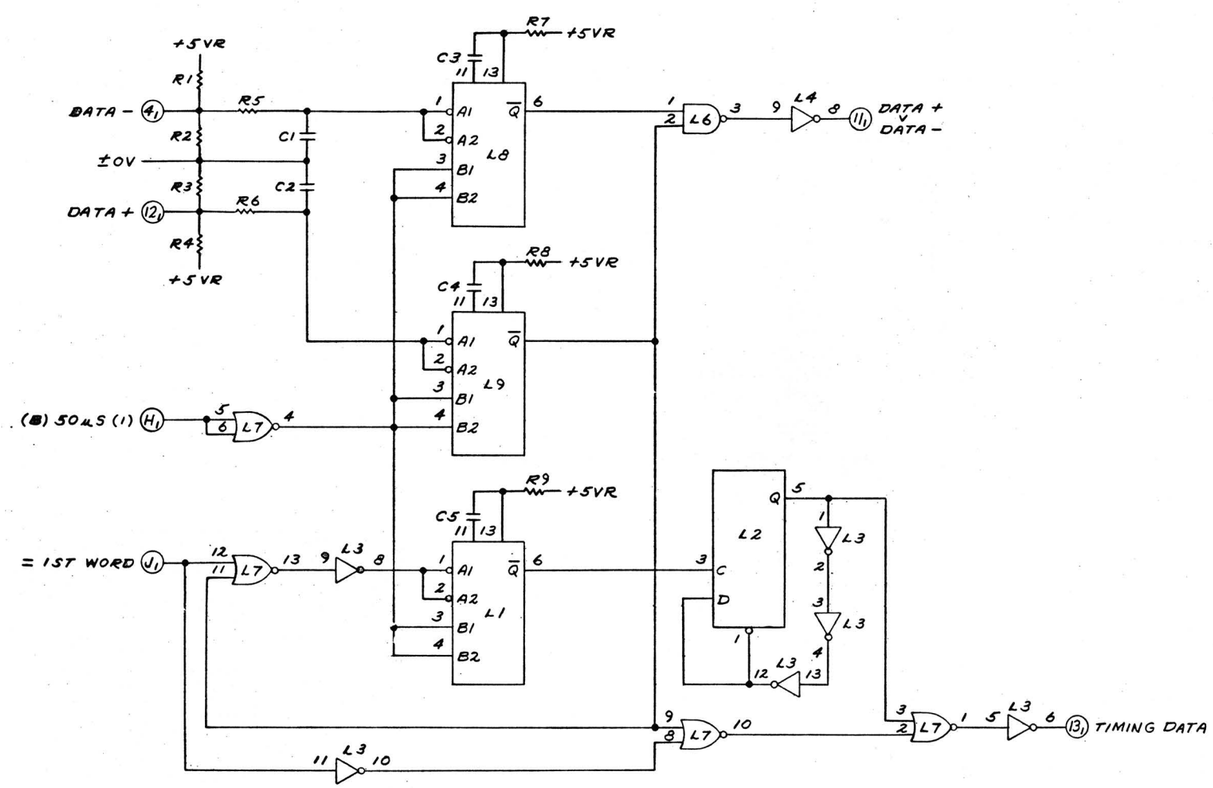
WANG LABORATORIES INC.
TEWKSBURY, MASS.

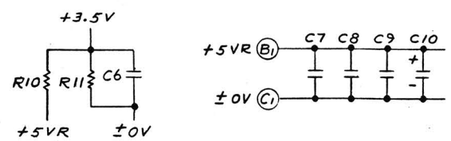
MODEL NO.	DRAWN	CHECKED	APP.	APP.
710-1	E.S.S. 8-31-72		9/1/72	

TITLE: BLOCK CIRCUIT DIAGRAM #0862 WRITE CIRCUIT

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

D 6462-1

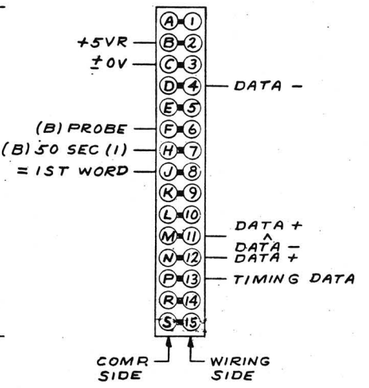




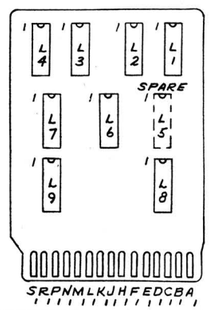
I.C. LOCATION	TYPE	W.L.NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1,8,9	F9601	376-0086	7	14	3
L2	SN7474N	376-0006	7	14	1
L3,4	SN7404N	376-0010	7	14	2
L5	SPARE				
L6	SN7400N	376-0002	7	14	1
L7	SN7402N	376-0016	7	14	1

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	.01 µf 25V	300-1903	4
C10	35 µf 15V	300-3009	1

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



COMPONENT LAYOUT 0863



DATE	REVISION	NO.

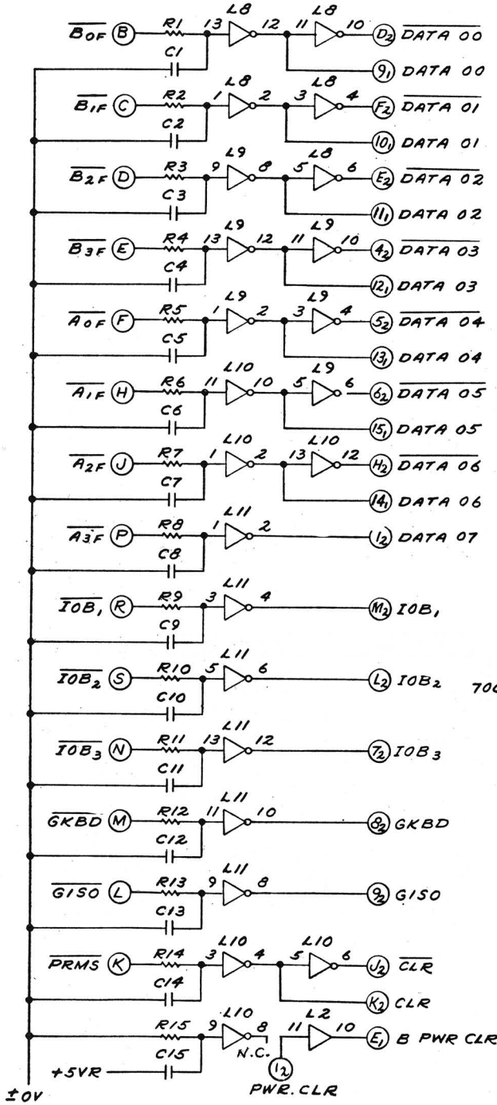
WANG LABORATORIES INC.
TEWKSBURY, MASS.

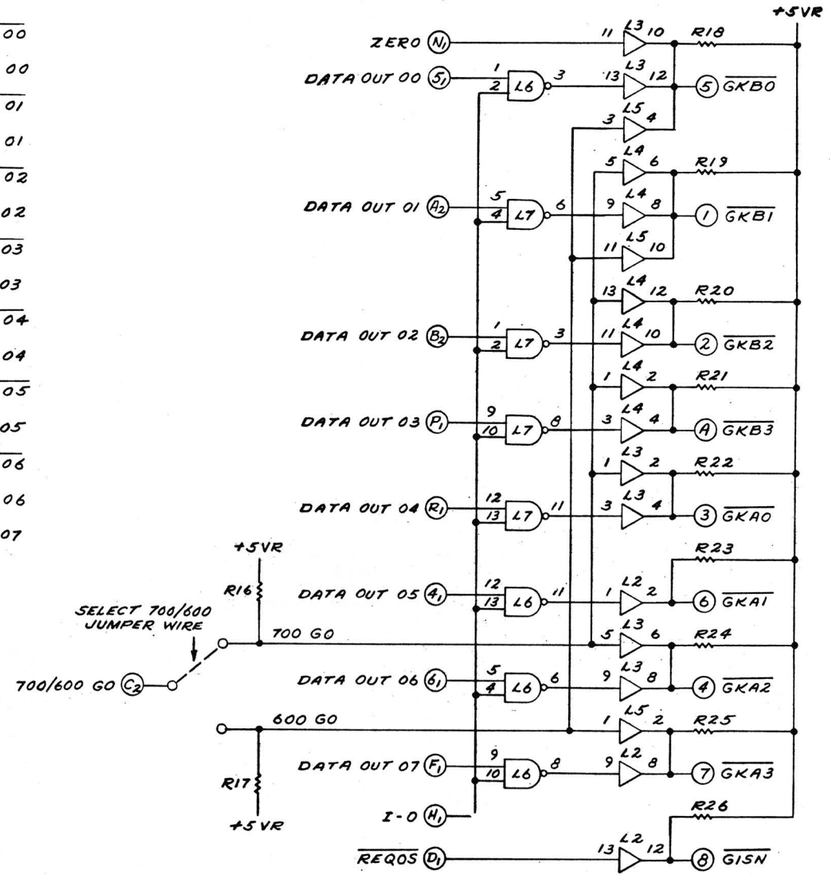
MODEL NO.	DRAWN	CHECKED	APP.	APP.
710-1	F.S.S. 8-30-72			9/14/72

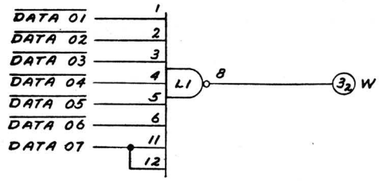
TITLE: BLOCK CIRCUIT DIAGRAM *0863 DATA CONTROL LOGIC

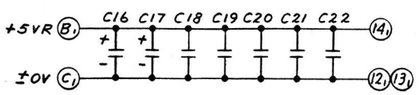
SHT 1 OF 1 | DWG. NO. D 6463-1 | REV.

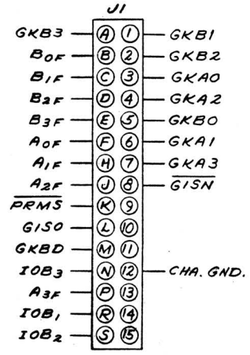
D 6463-1





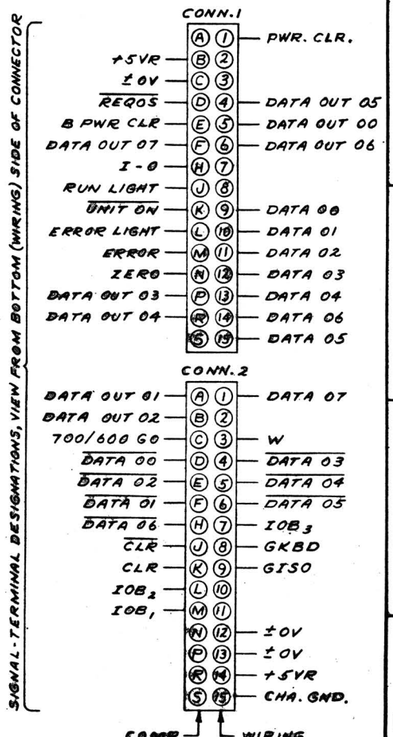




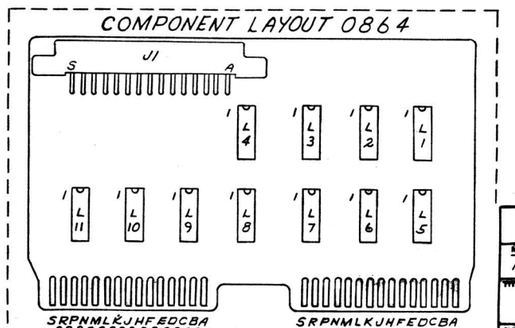


COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1,2,3,4,5,6,7,8, 9,10,11,12,13,14	100Ω 1/4W	330-2010	14
R15	220Ω 1/4W	330-2022	1
R16,17	3.3K 1/4W	330-3033	2
R18,19,20,21,22,23, 24,25,26	1K 1/4W	330-3013	9
C1,2,3,4,5,6,7,8	470μμf	300-1470	8
C14	1μf 15V	300-3000	1
C15	50μf	300-3010	1
C16,17	35μf 15V	300-3009	2
C9,10,11,12,13,18,19,20,21,22,23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



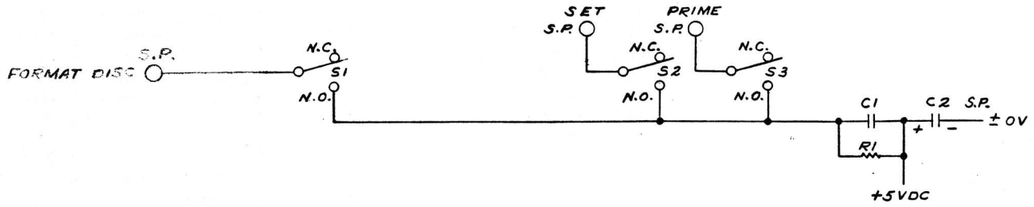
NOTES:
1. BOND CONNECTOR TO CIRCUIT BOARD USING DOUBLE SIDED THERMOSETTING TAPE BEFORE SOLDERING. APPROX. 3¼" LONG.

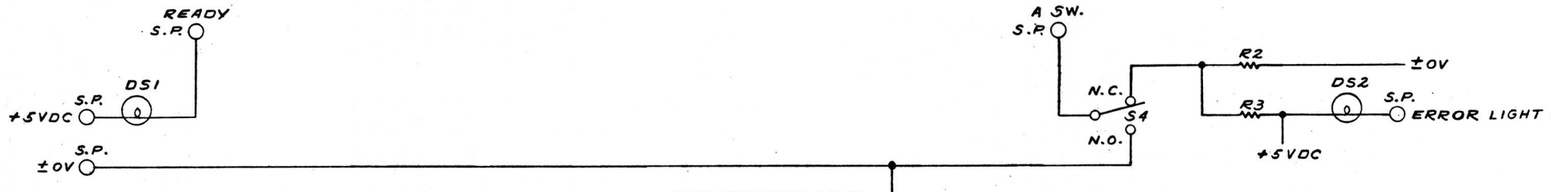


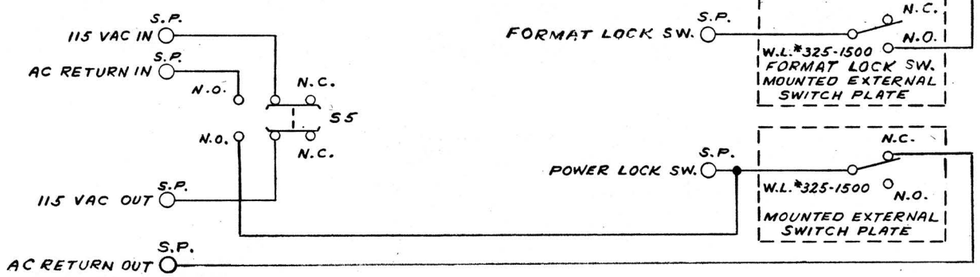
NO.	REVISION	BY
1	REVISED: PER E.C.#3369 APP'D. 11/4/	W.S. P.S.
2	REVISED: PER E.C.#3441 APP'D. 11/4/	E.S.S. P.S.
3	REVISED: PER E.C.#3546 APP'D. 6/11/	W.S. P.S.

WANG LABORATORIES INC.
TEWKSBURY, MASS.
MODEL NO. 710-1 | DRAWN F.S.S. 8-17-72 | APP. 9/11/74 | CHECKED | APP.
TITLE BLOCK CIRCUIT DIAGRAM #0864 I-O BUFFER BOARD
SHT 1 OF 1 | DWG. NO. D 6464-1 | REV. 3

D 6464-1

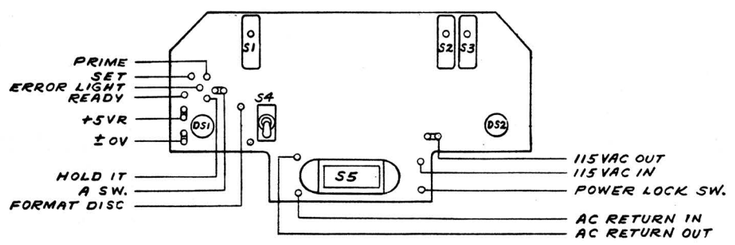






COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1	6.8K 1/4W 10%	330-3068	1
R2	1K 1/4 W 10%	330-3010	1
R3	270Ω 1/4 W 10%	330-2027	1
C1	220mmf CER.	300-1220	1
C2	4 μf 15V	300-3003	1
DS1, 2	1705 CLR. LAMP	375-0000	2
S1,2,3	11SM804 MICRO SW.	325-2300	3
S4	SPDT TOGGLE SW.	325-0006	1
S5	ROCKER SW.	325-0015	1

COMPONENT LAYOUT 0868



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

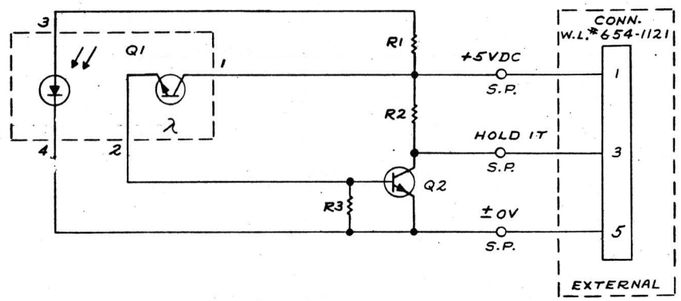
WANG LABORATORIES INC.
TEWKSBURY, MASS.

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

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

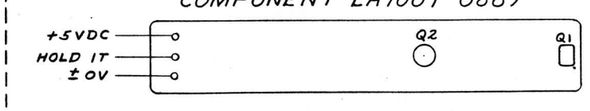
SHT 1 OF 1 | DWG. NO. D 6468-1 | REV. 2

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

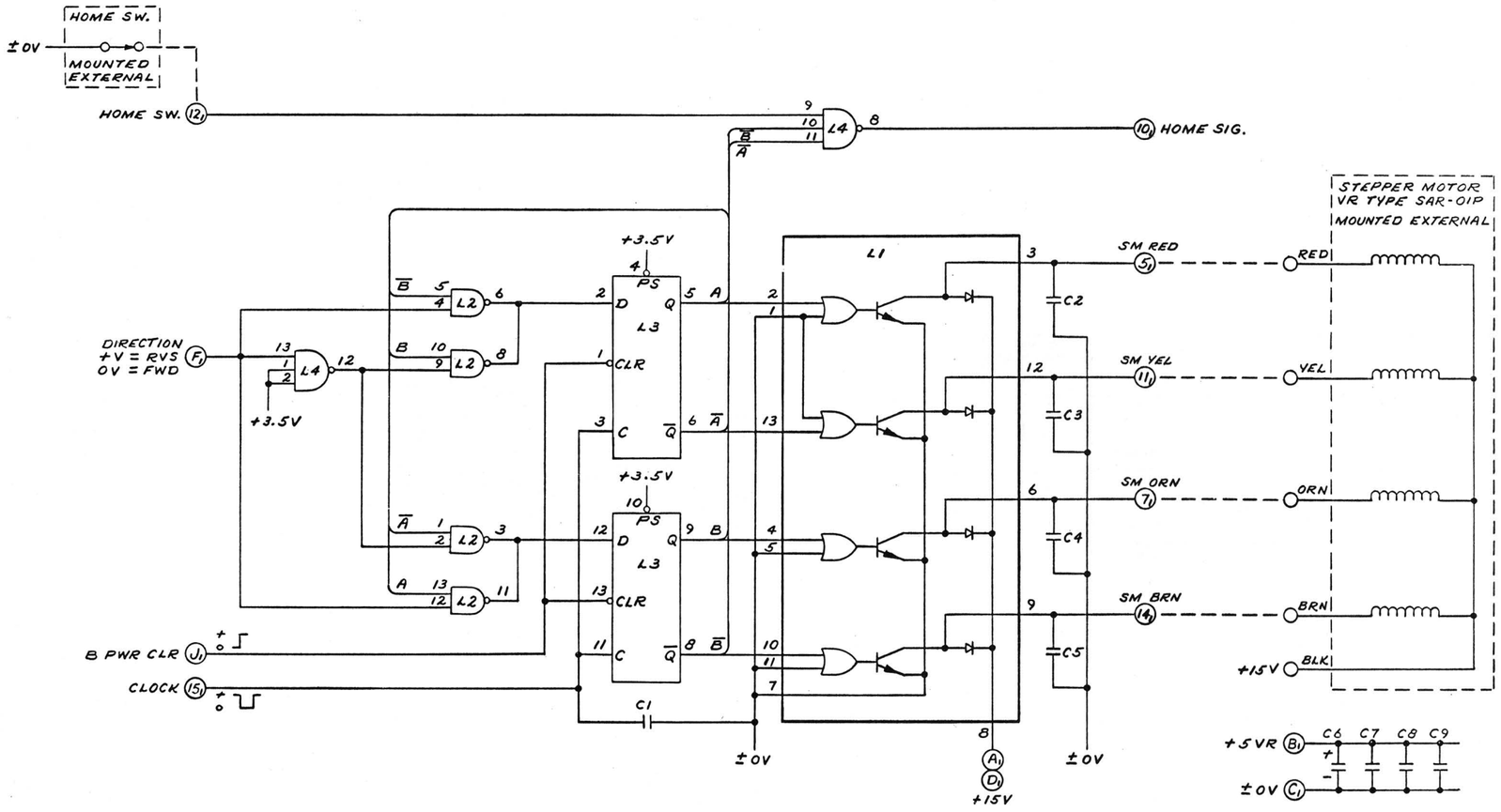
WANG LABORATORIES INC.
TEWKSBURY, MASS.

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

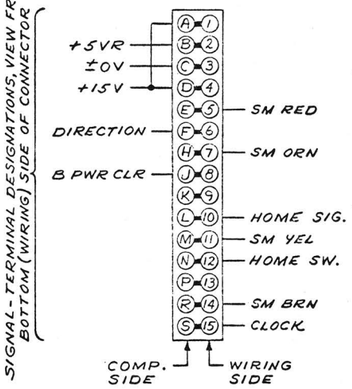
TITLE
BLOCK CIRCUIT DIAGRAM #0869
WRITE LOCK TRANSDUCER CIRCUIT

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

D 6469-1



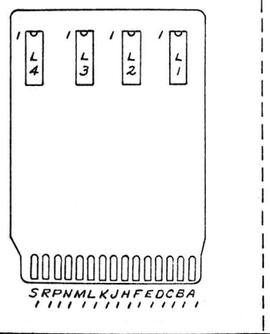
SIGNAL-TERMINAL DESIGNATIONS, VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR



I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1	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 ¼W	330-3010	1
R2	270Ω ¼W	330-2027	1
C1	82μf 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. 6471-1 REV. C & 3528 REV. A APP'D.	3-2-73	F.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

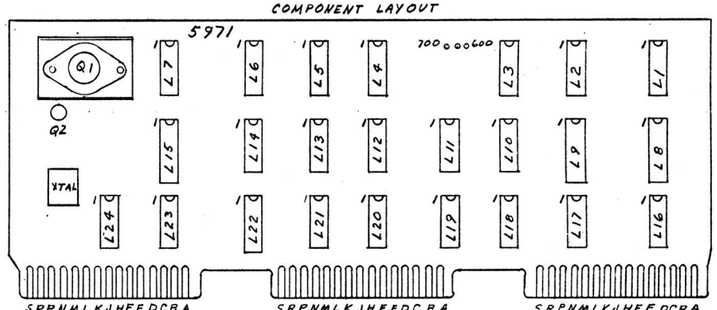
DO NOT SCALE

COMPONENT	SIZE/TYPE	W. L. NO.	QTY
R1	3.9Ω ½W	331-0039	1
R2	390Ω ¼W	330-2039	1
R3	3.3K 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	1.8K 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

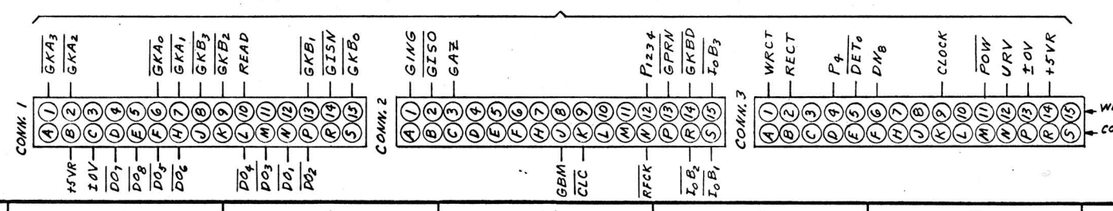
COMPONENT	SIZE/TYPE	W. L. NO.	QTY
C1, 4	820 μμF	300-1820	2
C3	.0056 μF	300-1915	1
C2	.0033 μF	300-2033	1
C5	330 μμF	300-1330	1
C7, 17	10 μF 16VDC.	300-3006	2
C8 THRU 16	.05 μF	300-1900	9
D2	IN753A 6.2V	380-2062	1
D1	IN754A 6.8V	380-2068	1
D3, 4, 5, 6	DIODE GE.	380-0000	4
Q1	2N4831	375-1031	1
Q2	GT544	375-1011	1
XTAL	8 MHz	321-0009	1
C6	.0018 μF	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	SN7406N	376-0056	14	7	1
L4	9935	376-0028	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



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 SKH0	RB	9-27-72	
2	PER ECN #3297 C2 WAS .002 MF APP'D SKH0	RB	10-16-72	
3	REVISED PER ECN #3526 APP'D SKH	RB	2-28-73	
4	REVISED PER ECN #3726 APP'D SKH	RB	10-23-73	

WANG LABORATORIES INC.
TEWKSBURY, MASS.

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

TITLE: SCHEMATIC, LOGIBLOC 5971 CONTROL UNIT

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

1-5971-D

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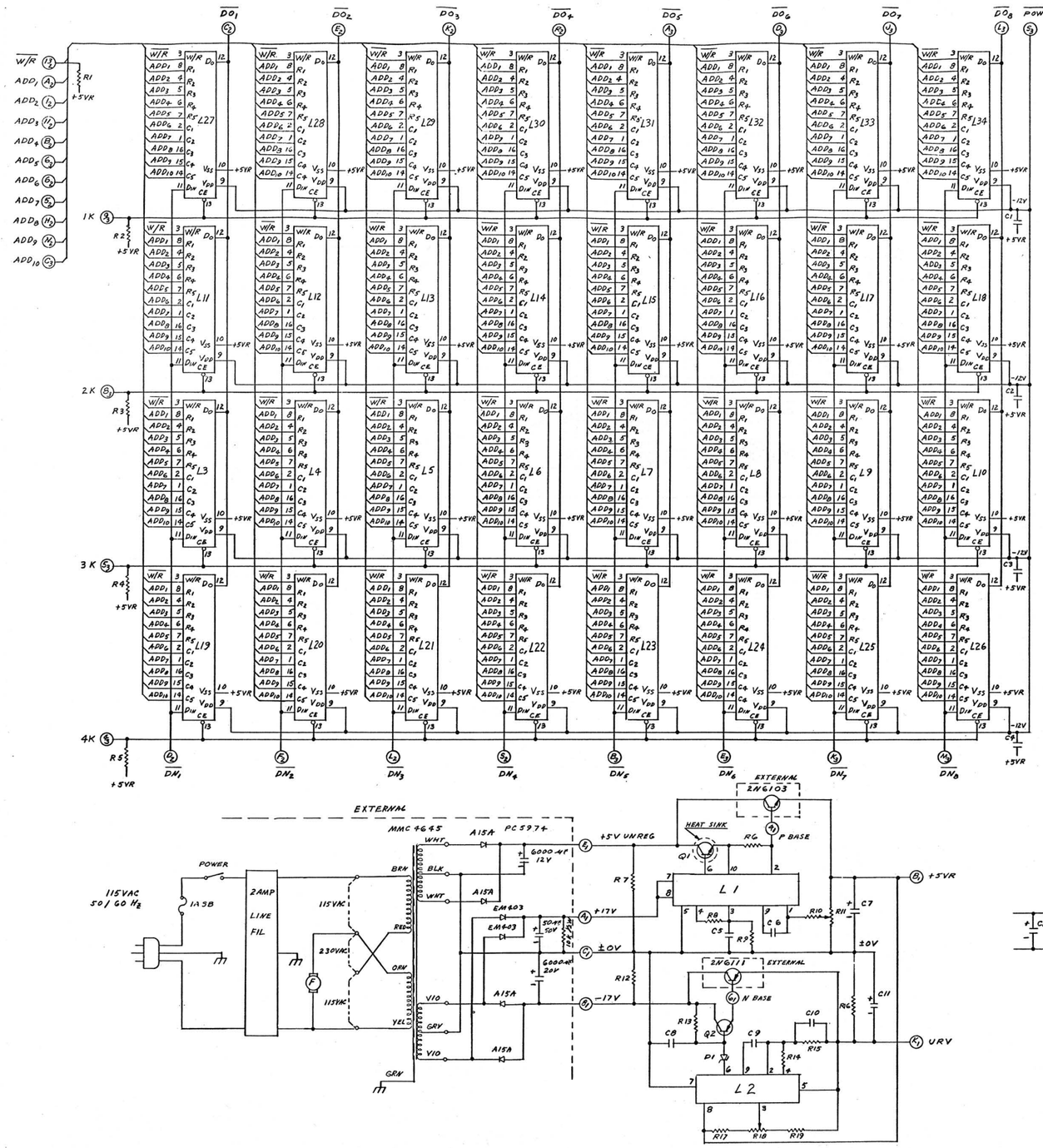
DO NOT SCALE

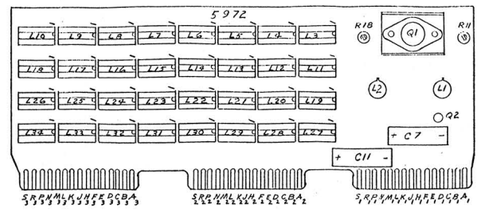
HOLE LEGEND

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

REV'T	DESCRIPTION	QTY.
A		



COMPONENT LAYOUT

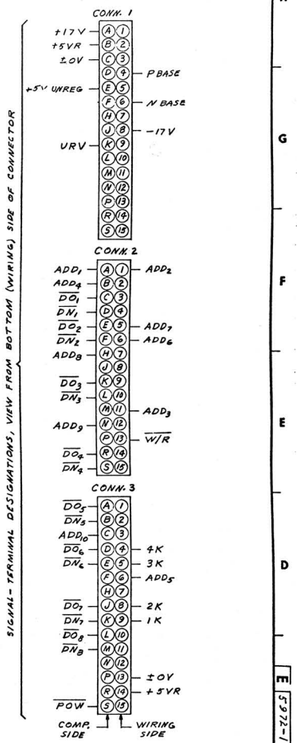


LOCATION	TYPE	W.L. PART NO.	QTY
L1, 2	723	376-0066	2
L3 THRU 34	4008P	377-0005	32

MEMORY LOADING CHART

MEMORY	LOADING LOCATION	QTY
1K MEMORY	L23, 28, 29, 30, 31, 32, 33, 34	8
2K MEMORY	L27, 28, 29, 30, 31, 32, 33, 34; L16, 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	1K ¼W	330-3010	5
R6	2.2Ω ½W	331-0022	1
R7,12	10K ¼W	331-4010	2
R8,17	2.7K ¼W	330-3027	2
R9	4.7K ¼W	330-3047	1
R10	470Ω ¼W	330-2047	1
R11, 18	1K POT	336-0016	2
R13	560Ω ¼W	330-2056	1
R14	1.8K ¼W	330-3018	1
R15	3.3K ¼W	330-3033	1
R16	10K ¼W	330-4010	1
R19	680Ω ¼W	330-2068	1
C1,2,3,4	.05 MF	300-1900	4
C5	.1 MF	300-1901	1
C6,8	.01 MF	300-1903	1
C7, 11	200 MF 16V	300-3012	2
C9	.001 MF	300-1906	1
C10	.05 MF	300-1900	1
C12	10 MF 16V	300-3006	1
D1	IN4934 4.2V	380-2042	1
Q1	40250	375-1028	1
Q2	GT594	375-1017	1



REVISION	BY	DATE	APPROVED BY	DATE
	DWN GS	10-5-72	E ENGR	11/72
	CHK		M ENGR	
	E.C. CONTROL		MFG ENGR	

WANG PART NO.	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
			WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.		
MATERIAL			MODEL NO. 718		
			SEE ENGRG SPECIFICATIONS No.		
FINISH			TOL. EX. AS NOTED .XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1/30' FINISH √		
			SCALE	SHT OF	

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

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.
	E	5972-1	

5972-1

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 1/4W	330-3022	1
R2	27K 1/4W	330-4027	1
R3 THRU7, 11 THRU 15	1K 1/4W	330-3010	10
R17 THRU 21	4.7K 1/4W	330-3047	5
R9, 22	47Ω 1/4W	330-1047	2
R10	6.8K 1/4W	330-3068	1
R16	10K 1/4W	330-4010	1
R8	47K 1/4W	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

COMPONENT LAYOUT

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

CONN. 1

+5VR	B 2	
±0V	C 3	
	D 4	
	E 5	
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	RFCK

CONN. 2

ADD_1	A 1	GPRN
ADD_4	B 2	
ADD_3	C 3	
P_4	D 4	
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	
GI_0B_3F	P 13	
GI_0B_2F	R 14	
GI_0A_0F	S 15	

CONN. 3

$\overline{DN_6}$	A 1	$\overline{DN_7}$
$\overline{DN_8}$	B 2	$\overline{GI_0A_2F}$
$\overline{DN_5}$	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
CLC	S 15	P_{1234}

COMP. SIDE — WIRING SIDE

NO.	REVISION	BY	DATE
1	REVISED PER ECN 3215 APP: D	SH	9-22-71
2	REVISED PER ECN # 3216 APP: D	SH	9-23-71
3	REVISED PER ECN # 3848 APP:	SH	10-22-73

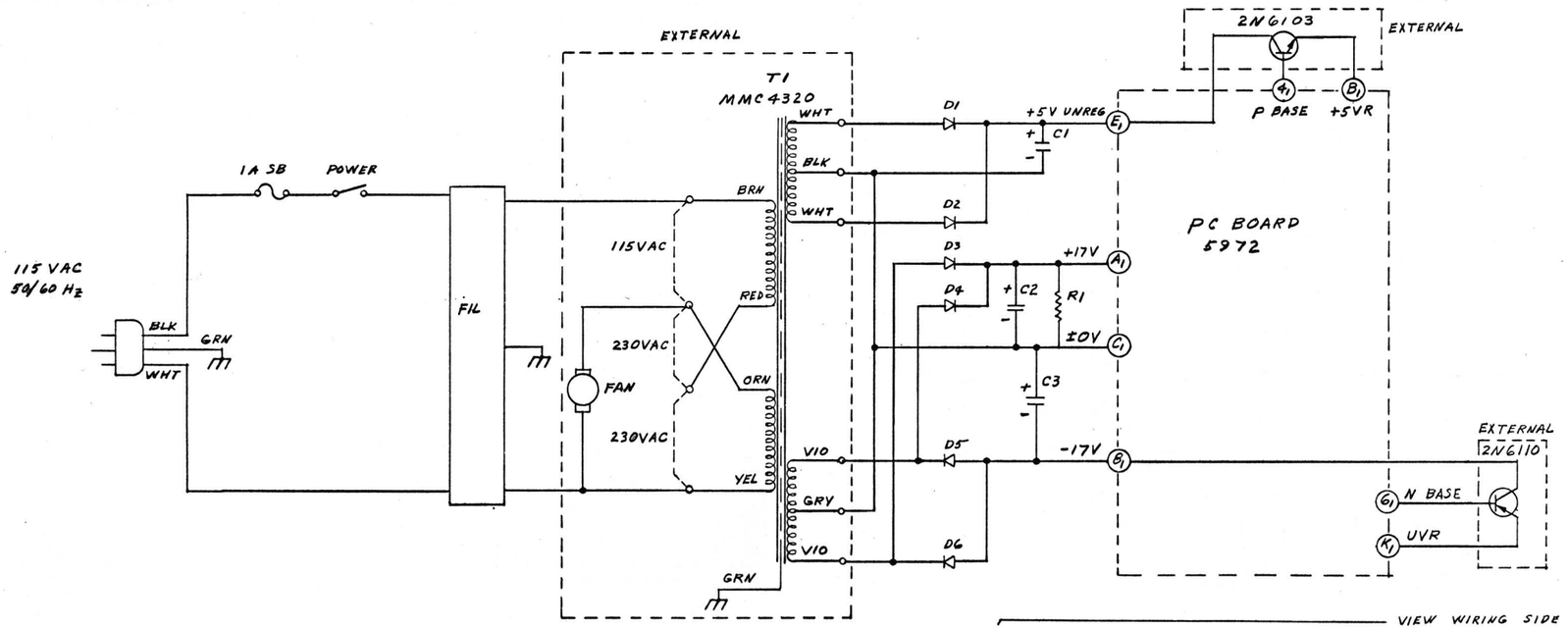
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.	
718	SH 9-26-71		
	CHECKED	APP.	

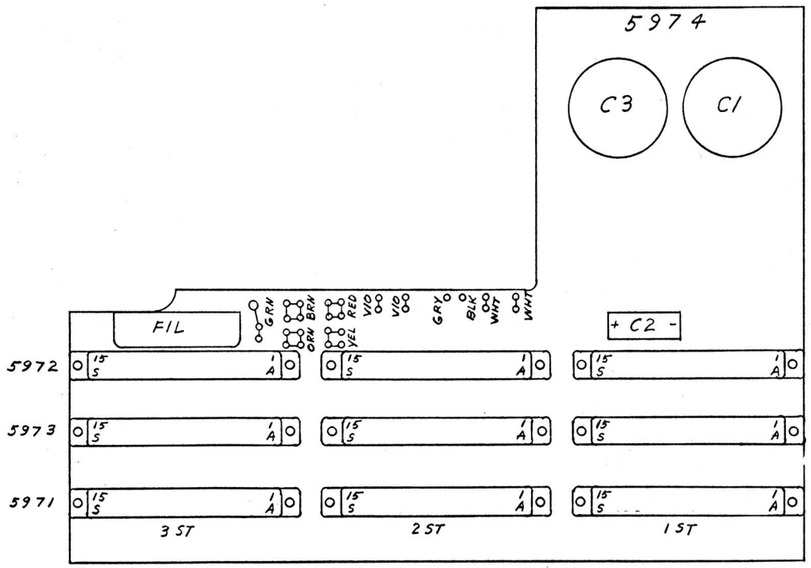
TITLE: SCHEMATIC, LOGIBLOC 5973
COUNTER AND REFRESHING CIRCUIT

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

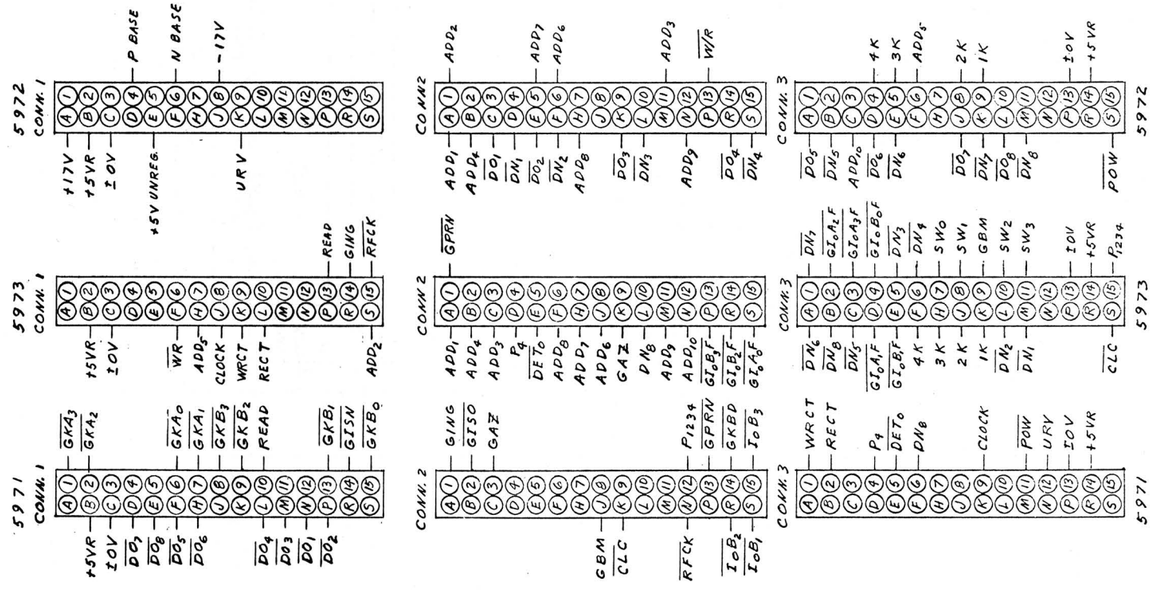
D 5973-1

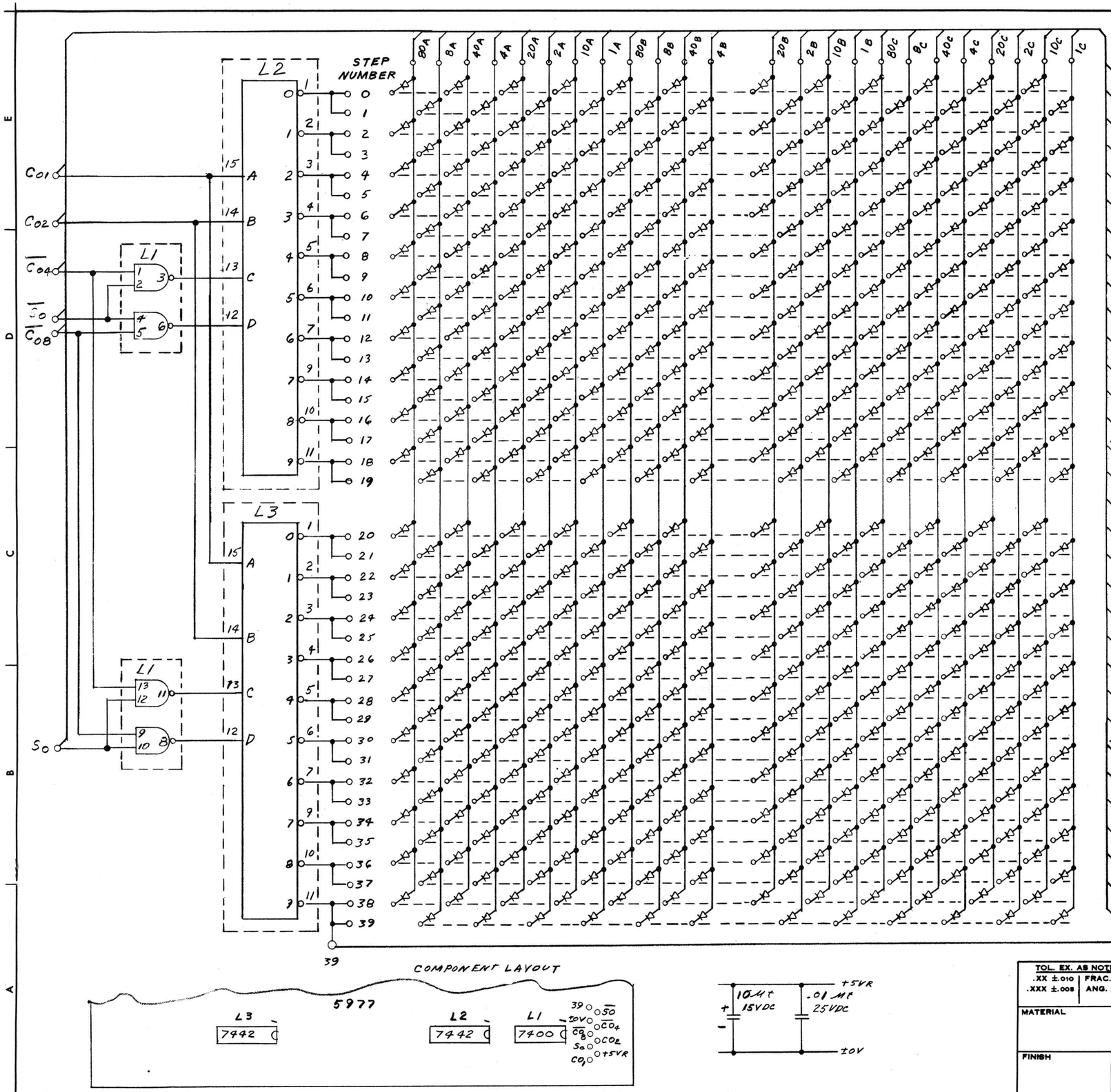


COMP.	SIZE/TYPE	W.L. PART NO.	QTY
R1	10K 1/4W	330-4010	1
D1,2,5,6	A-15A	380-3004	4
D3,4	EM403	380-4000	2
C1, 3	6K μF 20V	300-3019	2
C2	50 μF 50V	300-3010	1
T1	MMC4320	410-0069	REF
FIL	LINE FILTER	410-2001	1
F1	1A SB	360-1010	1



VIEW WIRING SIDE





PLUG-IN TERMINAL END
WANG PART No. 5958

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	QTY
L1	SN7400N	376-0002	7	14	1
L2, 3	SN7442N	376-0008	8	16	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, 185 AND 704

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

C ON DWG

DO NOT SCALE

NO.	REVISION	DATE	BY
2	REVISED PER E.C. #2904 APP'D SKM	4-20-72	F.S.
3	PER ECN #3715 ADDED SHT 2 OF 2 APP'D	12-8-72	D.S.

P.C. 5977 REF

CABLE CONN

10K +5VR

$\overline{GI_0B_0F_b}$ (20)
$\overline{GI_0B_1F_b}$ (21)
$\overline{GI_0B_2F_b}$ (22)
$\overline{GI_0B_3F_b}$ (23)
$\overline{GI_0A_0F_b}$ (24)
$\overline{GI_0A_1F_b}$ (25)
$\overline{GI_0A_2F_b}$ (26)
$\overline{GI_0A_3F_b}$ (27)
$\overline{IOB_1}$ (28)
$\overline{IOB_3}$ (30)

±0V
4.7K
2N3014 Q2
10K ±0V
+5VR 10K
10K
NC READ C NO
±0V .01
GERM
GLRN (11)
GISO (31)
.001 CERAMIC ±0V
(FIN)
(ST_0)
GKBD (32)
.001 ±0V
2.2K +5VR
.01
GERM
PRIME (10)
(DONE)
.02 ±0V
.0056 CER
4.7K 1K +5VR
±0V
GISN (9)
(DAT)
GERM
±0V (33) (34) ±0V (35)
CHS GND (36)
1μf (TANT)

(10) CO_1
(8) CO_2
(21) $\overline{CO_4}$
(19) $\overline{CO_8}$
(25) $\overline{S_0}$
(23) S_0

(27) STEP 39
(G_2)
(ST_1)
.01

(DAT)

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

1A (2) 2A (5)
4A (11) 8A (17)
10A (44) 20A (39)
40A (38) 80A (32)
1B (4) 2B (3)
4B (9) 8B (15)
10B (42) 20B (41)
40B (36) 80B (30)
1C (6) 2C (1)
4C (7) 8C (13)
10C (40) 20C (43)
40C (34) 80C (28)
±0V (31) +5VR (35)
.01 .01 .01

CABLE CONN

GKB_0 (5)
GKB_1 (6)
GKB_2 (7)
GKB_3 (8)
GKA_0 (1)
GKA_1 (2)
GKA_2 (3)
GKA_3 (4)

2.2K +5VR

CABLE TERM WL 350-1026

GKA_0	1 19	$\overline{GI_0B_0F_b}$
GKA_1	2 20	$\overline{GI_0B_1F_b}$
GKA_2	3 21	$\overline{GI_0B_2F_b}$
GKA_3	4 22	$\overline{GI_0B_3F_b}$
GKB_0	5 23	$\overline{GI_0A_0F_b}$
GKB_1	6 24	$\overline{GI_0A_1F_b}$
GKB_2	7 25	$\overline{GI_0A_2F_b}$
GKB_3	8 26	$\overline{GI_0A_3F_b}$
GISN	9 27	$\overline{IOB_1}$
PRIME	10 28	
GLRN	11 29	
	12 30	$\overline{IOB_3}$
	13 31	GISO
	14 32	GKBD
	15 33	±0V
	16 34	±0V
	17 35	±0V
	18 36	CHS GND

P1

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

EXTERNAL
MCC 3779-3
110VAC OR 220VAC 50/60 HZ (SEE NOTE 3)
BLK
GRN
WHT
CHS GND
110V
110V
220V
* CONNECT LEAD 3 OF XMFR TO 110V AND LEAD 4 OF XMFR TO 220 V FOR 220V REQUIREMENT.

W.L. NO 370-0013
±0V
2N5189
+5VR
IN3253
500μf 25V
100Ω
Q1
10μf/16V ELECT
10μf
IN752
IN3253
±0V

I/O CABLE ASSEMBLY SEE SHT 2 OF THIS DWG.

COMPONENT LAYOUT
±0V
CHS GND
GLRN
IOB1
PRIME
GISN
GIOS
GKBD
IOB3
Q1
Q2
L10 L5 L14 L4 L13 L8 L3 L12 L7 L2 L11 L6 L1
220V 110V
P1

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
1	ECN #2200 XMFR 3779-3 PINS 2 & 3 WERE COMMON. XMFR 3779-3 WAS 3779-2	3-3-71	J.C.

IDENT	QTY	NAME	MATERIAL	DESCRIPTION

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

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

DR [illegible] DATE 3/19/71
CHK [illegible] DATE 5-6-71
APPD [illegible] DATE 5/11/71

MODEL No. 704 W.O. No. SCALE SHEET 1 OF 2

TITLE SCHEMATIC LOGIBLOC #5978 CARD READER

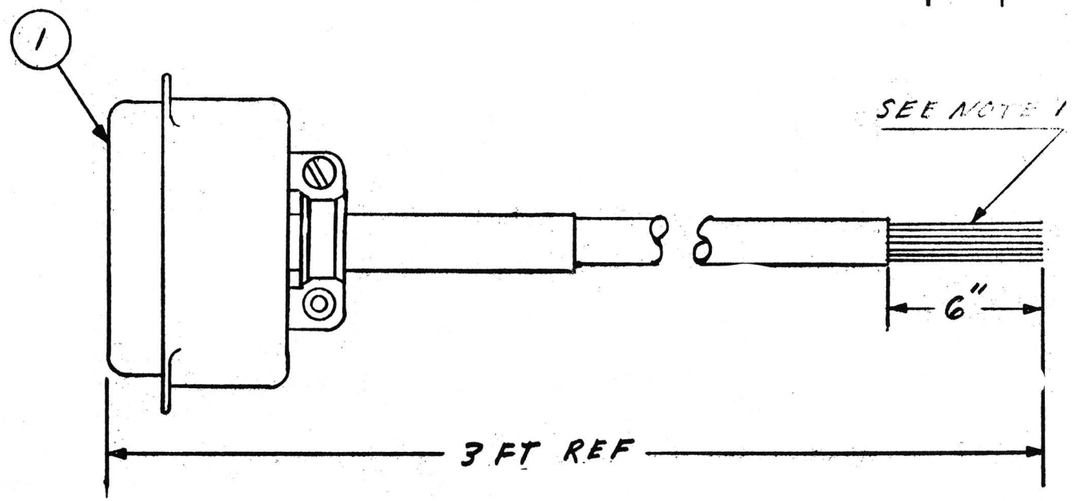
PART NUMBER 5978-1 REV D SIZE DRAWING NUMBER

D 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	±0V
34	34	±0V
35	35	±0V
36	36	CHASSIS



NOTE:—

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

HOLE LEGEND

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

IDENT.	DESCRIPTION	QTY.
A		

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

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 √

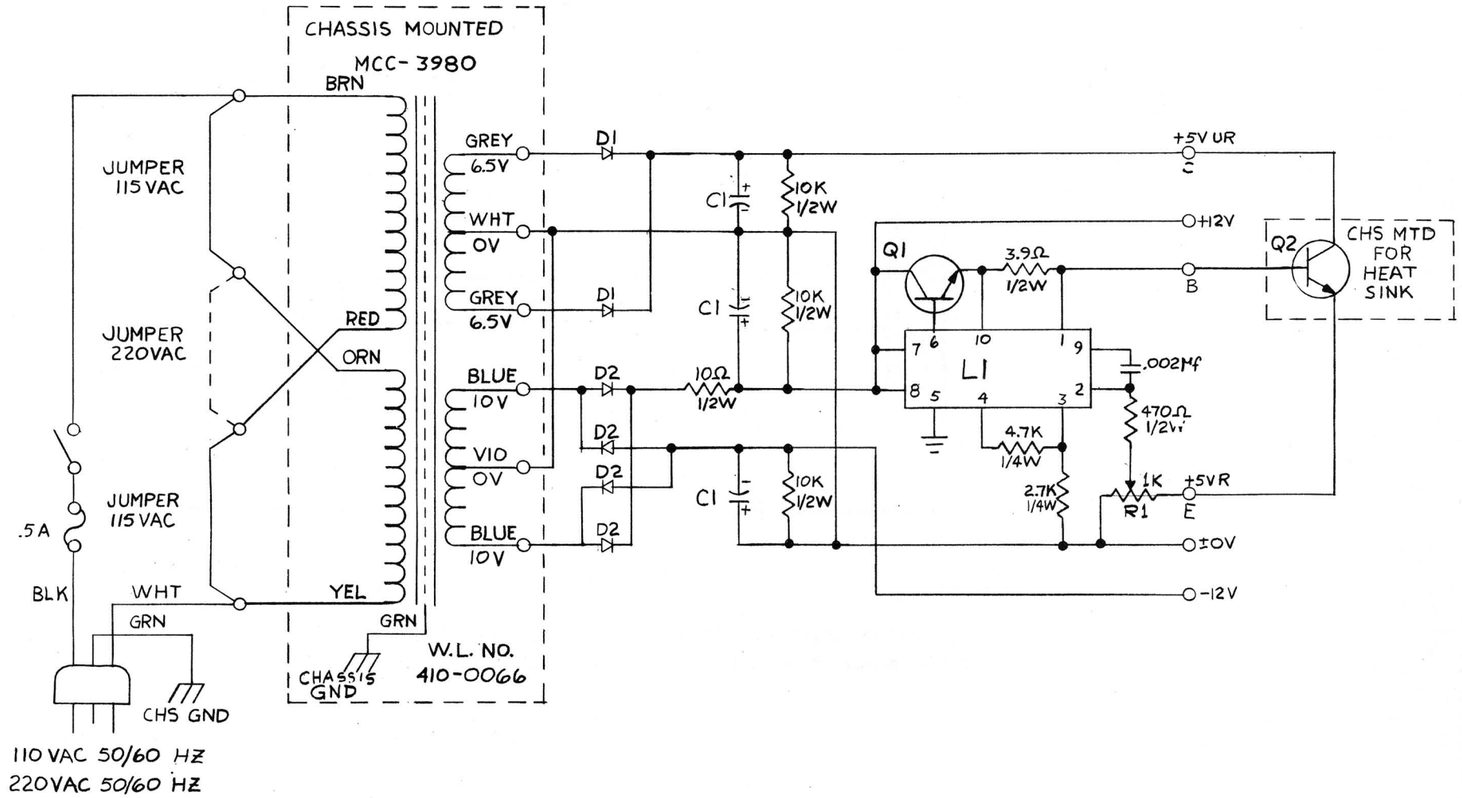
SCALE | SHT 2 OF 2

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.
	B	5978-1	3

NO.	REVISION	BY	DATE

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	JS

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

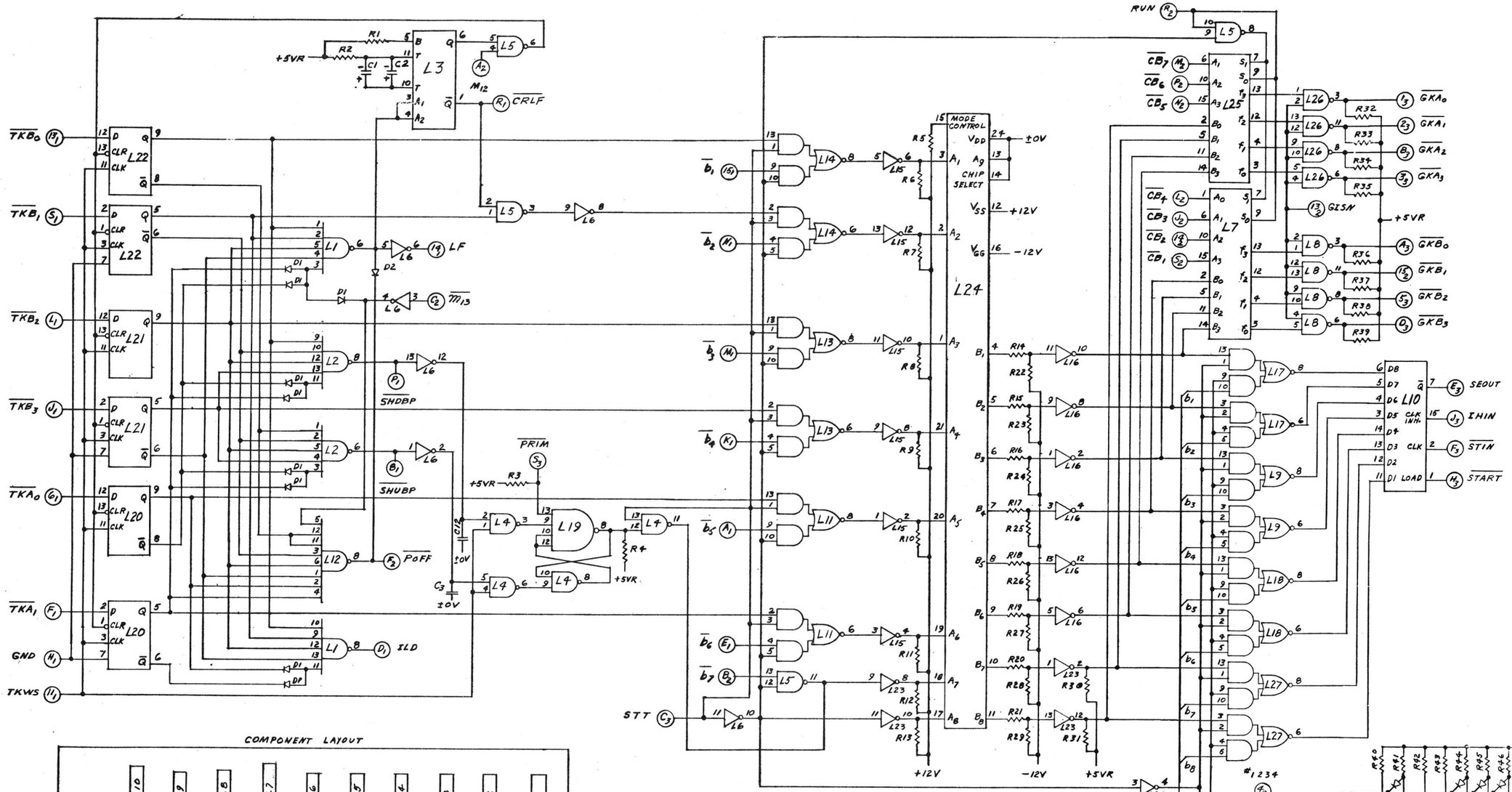
IDENT	QTY	NAME	MATERIAL	DESCRIPTION
		WANG LABORATORIES, INC. TEWKSBURY, MASS. U. S. A.	DR JCL	DATE 3/22/71
			CHK K Tony	DATE 2/10/72
			APPD SK AO	DATE 2/10/72

MODEL No. 707 | W.O. No. | SCALE | SHEET OF

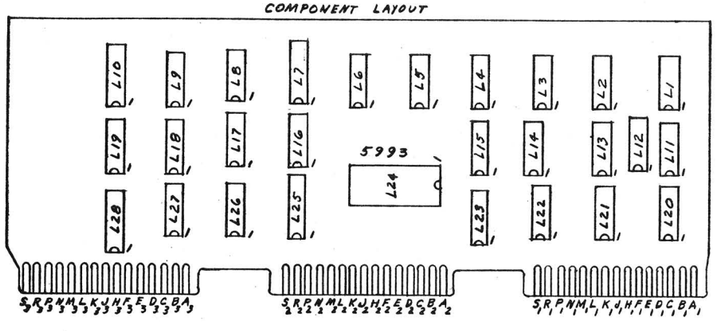
TITLE SCHEMATIC LOGIBLOC # 5992 P.C. BOARD POWER SUPPLY FOR MODEL 707

PART NUMBER	REV	SIZE	DRAWING NUMBER
	1	C	5992-1

DO NOT SCALE



COMPONENT LAYOUT



LOCATION	TYPE	WANG LAB. No.	TERM. No. V_{cc} +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 ¼W	330-4010	1
R2	39 K ¼W	330-4039	1
R3	2.2 K ¼W	330-4022	1
R4	1.5 K ¼W	330-3015	1
R5 THRU 21, R30 THRU 48	4.7K ¼W	330-3047	36
R22 THRU 29	8.2K ¼W	330-3082	8
R49	15 K ¼W	330-4015	1
C1,2	3.3 MF 15V	300-4016	2
C3,12	.001 MF	300-1906	2
C4,5,10,11	10 MF 16V	300-3006	4
C6,7,8,9	.05 MF 12V	300-1900	4
D1	SIL DIODE	380-1001	36
D2	GER DIODE	380-0000	1

OBSOLETED PER ECN 3451
REPLACED BY PC. 6286

NO.	REVISION	BY	DATE
1	PER ECN 2338 ADDED PART PIN 2	PB	6/24/71
2	PER ECN 3451 OBSOLETED APP'D	PB	1-31-73

IDENT	QTY	NAME	MATERIAL	DESCRIPTION
			DR PB	DATE 6/2/71
			CHK	DATE
			APPD	DATE

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

MATERIAL
FINISH

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

MODEL No. 707 | W.O. No. | SCALE 4/1 | SHEET OF

TITLE SCHEMATIC LOGIBLOC, MOS CODE CONVERSION #5993

PART NUMBER | REV 2 | SIZE D | DRAWING NUMBER 5993-1

D 5993-1

NO	REVISION	DATE	BY

P1 = QTY 35

P1

A 1		$\overline{GIST}$
B 2	+5VR	AXYZ
C 3	+0V	$\overline{Q1}$
D 4	$\overline{GI_0B_0F}$	$\overline{Q2}$
E 5	$\overline{GI_0B_1F}$	$\overline{Q3}$
F 6	$\overline{GI_0B_2F}$	SCP
H 7	$\overline{GI_0B_3F}$	#1234
J 8	$\overline{GI_0A_0F}$	GISOD
K 9	$\overline{GI_0A_1F}$	Xon
L 10	$\overline{GI_0A_2F}$	$\overline{Q4}$
M 11	$\overline{GPIH}$	
N 12		
P 13		$\overline{Xoff}$
R 14		$\overline{M_{13}}$
S 15	ILD	STT

P2

A 1		$\overline{STGO}$
B 2		GPIH
C 3		GISOD
D 4		
E 5		TKWS
F 6		$\overline{TKWS}$
H 7		$\overline{CB_6}$
J 8		$\overline{CB_7}$
K 9		$\overline{CB_5}$
L 10		$\overline{b_4}$
M 11		$\overline{CB_2}$
N 12		$\overline{CB_3}$
P 13		$\overline{CB_1}$
R 14		$\overline{CB_4}$
S 15	GIIGO	GISO

P3

A 1	$\overline{NOT}$ #	
B 2	$\overline{R}$ OUT	
C 3	$\overline{PRIME}$	
D 4	GP II	
E 5		
F 6		
H 7		
J 8		
K 9		$\overline{b_2}$
L 10		DATA
M 11	$\overline{b_6}$	$\overline{b_7}$
N 12	$\overline{b_5}$	3PS
P 13	DATA ST	+0V
R 14	$\overline{b_3}$	+5VR
S 15	$\overline{b_1}$	$\overline{CLFF}$

COMP. SIDE — WIRING SIDE

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

LOC.	TYPE	WANG LAB. No.	TERM. No. Vcc +5VR	TERM. No. ±0V	QTY
L12, 13	SP380A	376-0061	8	1	2
L7, 25	SN7800N	376-0002	14	7	2
L4/1, 15, 24	SN7402N	376-0016	14	7	4
L1, 9	SN7410N	376-0003	14	7	2
L5, 16, 27	SN74421N	376-0008	16	8	3
L6, 18, 23, 28	SN7475N	376-0013	5	12	4
L11	SN7412N	376-0051	14	7	1
L17	6570	376-0071	14	7	1
L19, 26	9330	376-0022	14	7	2
L21	9935	376-0025	14	7	1
L2, 3, 20, 22	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 1/2W	330-3022	1
R9	39K 1/2W	330-4039	1
R10	10K 1/2W	330-4010	1
C1, 2	.01 MF	300-1903	1
C3	330 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 15VDC	300-3006	2
C11 THRU C21	.05 MF	300-1900	11
D1	SIL. DIODE	380-1001	38
D2	GERMANIUM	380-0000	4

COMPONENT LAYOUT

QTY	NAME	MATERIAL	DESCRIPTION
	WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.	BY	DATE / APPROVED BY / DATE
		DWN JG	1-/11 / E ENGR
		CHK	1/19/71 / M ENGR
MATERIAL	MODEL NO. 707	E C. CONTROL	MFG ENGR
	SEE ENGRG SPECIFICATIONS No.	TITLE SCHEMATIC LOGIBLOC No. 5994- 700 TO TELETYPE INTERFACE	
FINISH	TOL. EX AS NOTED .XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1°30' FINISH 125	E	5994-1
	SCALE / SHT OF	WANG PART NUMBER	DRAWING NUMBER

DO NOT SCALE

COMPONENT	SIZE/TYPE	WANG LAB. No.	QTY
R1,2,13,17,29	10K 1/4 W	330-4010	5
R3,4,5,6,7,8,9,15,16,19,20,21,25,31	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
R24,39,36	1K 1/4 W	330-3010	3
R27	1.8K 1/4 W	330-3018	1
R30	39K 1/4 W	330-4033	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 MF	330-1900	10
C4	.02 MF	300-1304	1
C5	.16 MF TANT.	300-4005	1
C6	.0015 MF	300-1307	1
C7,8,17,18	10 MF/16 VDC	300-3006	4
C19	.001 MF	300-1906	1
D1 THRU D14	DIODE	380-1001	14
D15	IN751A	380-2051	1
Q1	35224	375-1001	1
RLY	PS SHLD	452-3501	1
	COIL	320-0023	1
	REED SWITCH	320-0024	1
XTAL	112.64 KC	321-0003	1

LOCATION	TYPE	WANG LAB. No.	TERM. No. V_{CC} +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 LAYOUT

REVISION NO.	BY	DATE
1	SG	7/29/71
	PER ECN 2230 ADDED 330-4014 CKTS PIN 8 OF L24 APP'L: SCHD	
2	GU	11-17-72
	PER ECN 2377 FOR WAS CH L6-PIN 5 APPROVED	

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.

IDENT	QTY	NAME	MATERIAL	DESCRIPTION
			DR [illegible]	DATE 5/24/71
			CHK K Tom [illegible]	DATE 6/1/71
			APPD [illegible]	DATE 6/10/71

MODEL No. 707 | W.O. No. | SCALE 4/1 | SHEET OF

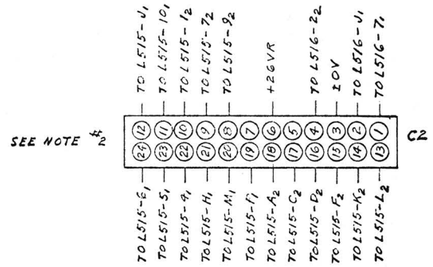
TITLE SCHEMATIC LOGIBLOC, TIMING CARD # 5995

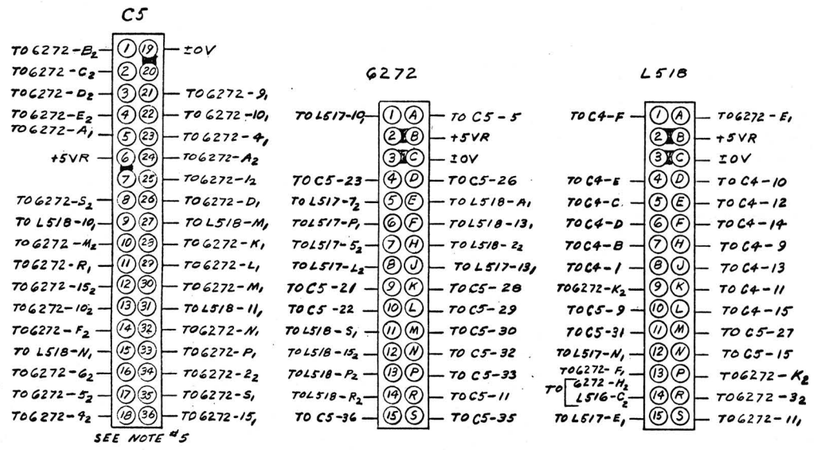
PART NUMBER	REV	SIZE	DRAWING NUMBER
	2	D	5995-1

1-5665

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





NO.	REVISION	BY	DATE
1	PER ECN 2762 WAS L514-1 APP'D SCH	BB	2-11-72
2	PER ECN 2998 ADD'D LINES BETWEEN J/O AND L518 APP'D SCH	BB	6-9-72
3	PER ECN 3164 REMOVED L519 APP'D SCH	BB	6-30-72

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 8/27/71
			CHK	DATE
			APPD	DATE 12-27-71

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

TITLE SCHEMATIC, MOTHER BOARD 6021

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

D 6021-1

NO.	REVISION	BY	DATE
1	REVISED PER E.C. # 1331 APPD.		
2	REVISED PER E.C. # 1974 APPD.		
3	REVISED PER E.C. # 2510 APPD. RTT		
4	REVISED PER E.C. # 2599 APPD.		
5	REVISED PER E.C. # 2947 APPD.		
6	REVISED PER E.C. # 3256 APPD.		

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. Q14, 23 THRU Q30 ARE CHASSIS MTD.
5. FOR 115 VAC 60 HZ USE 1.5A W.L.# 360-1015SB
   FOR 220 VAC 50 HZ USE 1A W.L.# 360-1011SB

DIODES	TYPE	W.L. NO.	QTY.
D1	IN2253	380-2253	11
D2	IN4739	380-4739	6
D3	IN5232	380-5232	1 ZENER
D4	IN5240	380-5240	1 ZENER
D5	IN5245	380-5245	1 ZENER
D6	IN645	380-0645	14

L506 I.C. LOCATION	TYPE	W.L. NO.	TERM FOR +5V	TERM FOR ±0V	QTY.
L1,7,13,14	9546	376-0023	14	7	4
L2,3,4,5,6,12,15	MC1650P	376-0062	14	7	7
L8,11	9336	376-0026	16	7	2
L9,10	SN7475N	376-0013	5	12	2

L507 I.C. LOCATION	TYPE	W.L. NO.	TERM FOR +5V	TERM FOR ±0V	QTY.
L1,8,9,11,12	9546	376-0023	14	7	5
L4	9595	376-0025	16	7	1
L3,6	9936	376-0026	16	7	2
L5,10,13	9035	376-0021	14	7	3
L7	MC668P	376-0034	14	7	1
Q31,32,33	2N3014	375-0017			3
Q1,10,13,14,15,16,17,18,19	GTE48	375-1017			8

L035 I.C. LOCATION	TYPE	W.L. NO.	TERM FOR +5V	TERM FOR ±0V	QTY.
L1,5,6,16,17,19,20	9541	376-0023	14	7	7
L2	9595	376-0025	16	7	1
L3,7,11,12,14,15,17,18	9936	376-0026	16	7	8
L4,9	9935	376-0021	14	7	2
L8	9346	376-0024	16	7	1
L10	SN7493N	376-0011	5	10	1
L21	MC662P	376-0034	14	7	1
L22	MC1650P	376-0062	5	12	1

TRANSISTORS	TYPE	W.L. NO.	QTY.
Q1,21,22	2N1420	375-0007	3
Q2,3,4,5,6,7,8,9,11,12,24	2N3704	375-0021	14
Q10,26,27,28,29,30	2N3417	375-0017	14
Q14	2N2647	375-0026	1

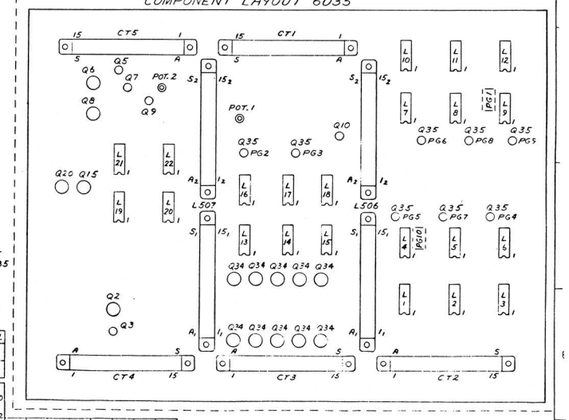
Q15,16,17,18,19, 20,31,32,33	GTE48	375-1017	8
Q23	2N2924	375-1031	1
Q34	40250	375-1022	8

POT.	TYPE	W.L. NO.	QTY.
POT. 1	1 OHM 5K	336-1007	1
POT. 2	1 OHM 1K	336-1001	1

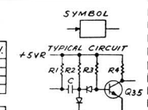
COMP	PG1 PG10	PG2	PG3	PG4	PG5	PG6	PG7	PG8	PG9
R1		1K	1K	1K	1K	1K	1K	1K	1K
R2		100K	100K	100K	100K	100K	100K	100K	100K
R3		2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K
R4		2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	1K	2.2K
C	.003 μf	1μf 15V	1μf 15V	1μf 15V	1μf 15V	1μf 15V	1μf 15V	5μf 15V	1μf 15V
Q35		2N3014	2N3014	2N3014	2N3014	2N3014	2N3014	2N3014	2N3014

WANG LABORATORIES, INC. TEWKSBURY MASS. U.S.A.		BY	DATE	APPROVED BY	DATE
MATERIAL	MODEL NO. 702	DWN. E.C.C.		ENGR.	
	SEE ENGRG SPECIFICATIONS	CHK.		M ENGR.	
FINISH		E. C. CONTROL		MFG ENGR.	
	TOL. ON AS NOTED XX ± .010 FRAC. ± 1/32 XXX ± .005 ANG. ± 1/2° ENGR'D	TITLE BLOCK CIRCUIT DIAGRAM POINTER, LETTER WITH LOCK			
	SCALE	SHT. OF	WANG PART NO. NEXT	SIZE	DRAWING NO. 6033 REV.

COMPONENT LAYOUT 6035



SYMBOL



TYPICAL CIRCUIT

SEE PG CHART BELOW ±0V

L506

L507

NOTE:
1. ALL RESISTORS ARE 1/4W 10% UNLESS OTHERWISE SPECIFIED.
2. ALL DIODES ARE 1N 4152-1001 UNLESS OTHERWISE SPECIFIED. SEE DIODE CHART BELOW.
3. C1 & 2 ARE CHASSIS MOUNTED.
4. Q1-8, 11-19 ARE CHASSIS MTD. TO L506 HEATSINK.
5. FOR HISTORIC BOARE USE L5A MLL 360-1005 SB FOR 220 VAC BOARE USE 1A MLL 360-1011 SB

DIODES	TYPE	W.L. NO.	QTY.
D1	1N3754	376-0043	1
D2	1N4744A	376-0057	1
D3	1N4733A	376-0055	1
D4	1N4742A	376-0056	1
D5	1N4148	376-0042	1
D6	1N4744A	376-0057	1
D7	1N4148	376-0042	1
D8	1N4744A	376-0057	1

COMPONENT LAYOUT

L506

COMPONENT LAYOUT

L507

L506	I.C. LOCATION	TYPE	W.L. NO.	TERM FOR VCC +5V	TERM FOR 20V	QTY.
	L1,7,12,18	9N46	376-0023	14	7	4
	L2,3,4,5,8,9,13,15	MC1800P	376-0026	16	7	8
	L6	9316	376-0076	16	7	2
	L10	SN7475N	376-0019	8	12	2

L507	I.C. LOCATION	TYPE	W.L. NO.	TERM FOR VCC +5V	TERM FOR 20V	QTY.
	L1,8,9,11,12	9N46	376-0023	14	7	5
	L2	9316	376-0025	16	7	1
	L3,6	9316	376-0076	16	7	2
	L4,10,13	9093	376-0021	14	7	3
	L7	MC862P	376-0036	16	7	1
	Q31,32,33	2N3014	375-0017			3
	L14,15,16,17,18,19	GT546	375-1017			6

6035	I.C. LOCATION	TYPE	W.L. NO.	TERM FOR VCC +5V	TERM FOR 20V	QTY.
	L1	9N41	376-0023	14	7	1
	L2,4,6,11,12,20	9316	376-0026	16	7	6
	L3,7,13,17,18,21	9316	376-0076	16	7	7
	L5	9316	376-0026	16	7	1
	L8	SN7493N	376-0028	14	7	2
	L9	SN7493N	376-0028	14	7	1
	L10	SN7493N	376-0021	14	7	1
	L14	MC862P	376-0036	16	7	1
	L15	MC1810P	376-0063	16	7	1
	L19	9316	376-0026	16	7	1
	L22	9N41	376-0023	14	7	1

TRANSISTORS	TYPE	W.L. NO.	QTY.
Q1,10,23	2N1742	375-0007	3
Q2,3,4,5,6,7,8,9	2N1742	375-0017	8
Q11,12,13,14,15,16	2N1742	375-0017	6
Q17,18,19,20,21,22	2N1742	375-0017	6
Q24	2N4250	375-0022	1

Q31,32,33	GT546	375-1017	3
Q34	2N5226	375-1021	1
Q35,36,37	40250	375-1022	3

SYMBOL

TYPICAL CIRCUIT

SEE PC CHART BELOW 30V

Pot.	TYPE	W.L. NO.	QTY.
Pot 1	42PR 2.5K	135-1007	1
Pot 2	42PR 1K	135-1001	1

"D" SYMBOL

TYPICAL CIRCUIT +5VR

PC BD. 6162 REF. ONLY MOUNTED ON L507. SEE DWG. A62-1

COMPONENT LAYOUT 6035

COMP.	PG1 PG2	PG3	PG4	PG5	PG6	PG7	PG8	PG9
R1	1K	1K	1K	1K	1K	1K	1K	1K
R3	100K	100K	100K	100K	100K	100K	100K	100K
R5	22K	22K	22K	22K	22K	22K	22K	22K
R6	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K
C	.003 μf	.003 μf	.003 μf	.003 μf	.003 μf	.003 μf	.003 μf	.003 μf
35	1N4148	1N4148	1N4148	1N4148	1N4148	1N4148	1N4148	1N4148

NOTE: L22 IS NOT USED.

WANG LABORATORIES, INC.

MATERIAL	MODEL NO. 702
FINISH	

	BY	DATE	APPROVED BY	DATE
DWN	A.S.S.	10-4-71		
CHK				
E.C. CONTROL				

TITLE: BLOCK CIRCUIT DIAGRAM PRINTER/PLOTTER WITH L506, L507, A162 AND PC 6035

SIZE: E | 6033-2 | REV.

L506

L507-1/L532

COMPONENT LAYOUT 6035-1

NOTE:
1. ALL RESISTORS ARE 1/8W 10% UNLESS OTHERWISE SPECIFIED.
2. ALL DIODES ARE WL 390-1001 UNLESS OTHERWISE SPECIFIED. SEE DIODE CHART BELOW.
3. CR1, 2 ARE CHASSIS MOUNTED
4. Q19, 21 THRU Q31 ARE CHASSIS MTD.
5. FOR 100VAC SEMS USE 1A WL 360-10138. FOR 220VAC SEMS USE 1/2A WL 360-10135

DIODES	TYPE	W.L. NO.	QTY.
D1	IN4154	390-3042	11
D2	IN4154	390-3042	2
D3	IN4154	390-3042	2
D4	IN4154	390-3042	2
D5	IN4154	390-3042	2
D6	IN4154	390-3042	2
D7	IN4154	390-3042	1
D8	IN4154	390-3042	1
D9	IN4154	390-3042	1
D10	IN4154	390-3042	1

L506

L507-1/L532

COMPONENT LAYOUT 6035-2

L506	I.C. LOCATION	TYPE	W.L. NO.	TERM FOR VCC +5V	TERM FOR 0V	QTY.
	L1, 7, 11, 16	9346	376-0023	16	7	4
	L2, 3, 4, 5, 6, 8, 9, 10, 12, 13, 14, 15	MC1012P	376-0028	16	7	12
	L17	9316	376-0026	16	8	1
	L18, 19	SN74154N	376-0029	24	12	2

L507-1 L532	I.C. LOCATION	TYPE	W.L. NO.	TERM FOR VCC +5V	TERM FOR 0V	QTY.
	L1, 7, 11, 16	9346	376-0023	16	7	4
	L2, 3, 4, 5	9317	376-0025	16	8	4
	L6, 9, 10, 11	9316	376-0026	16	8	4
	L8	MC1012P	376-0028	16	7	1
	L12, 13, 14	9093	376-0027	14	7	3
	L15, 16, 17, 18, 19, 20, 21, 22, 23, 24	74S04	375-0047			10
	L25, 26, 27, 28, 29, 30, 31	GF586	375-0017			7

6035-	I.C. LOCATION	TYPE	W.L. NO.	TERM FOR VCC +5V	TERM FOR 0V	QTY.
	L1, 5, 6, 10, 13, 16, 20	9346	376-0023	16	7	7
	L2, 3, 4, 11, 12, 14, 15, 17, 18	9316	376-0022	16	8	9
	L7, 21	9316	376-0026	16	8	2
	L8, 9	9322	376-0025	16	8	2
	L19	9309	376-0024	16	8	1
	L22	SN74154N	376-0029	24	12	1
	L23, 24	SN74193N	376-0031	16	8	2
	L25	MC1012P	376-0028	16	7	1
	L26, 27	MC1000P	375-0048	14	7	2

TRANSISTORS	TYPE	W.L. NO.	QTY.
Q1, Q2, Q3	2N5401	378-0007	3
Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16, Q17, Q18, Q19, Q20, Q21, Q22, Q23, Q24, Q25, Q26, Q27, Q28, Q29, Q30, Q31, Q32, Q33, Q34, Q35, Q36	2N3904	378-0017	33
Q37	2N4241	378-0006	1

DIODES	TYPE	W.L. NO.	QTY.
D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36, D37, D38, D39, D40,

PRINT/FUNCTION

TAB | INDEX RETURN | SHIFT | SP. BAR SP.

TKB0 TKB1 TKB2 TKB3 TKA0 TKA1 TKWS RBS

±0V (LOGIC) | PRINT CYCLE | CR0 | KB LOCK

CHASSIS GND | CHASSIS | 1 MEG. | 0.1µF 100V

COMPONENT SIDE LAYOUT

P6's | DR-1 STAGES | DR-2

6053 - R6

INPUT CONNECTOR ON REAR SIDE

BACK FILE
Per ECN
Date

EXTERNAL | 2N1540 | PT-1 | +26V WIRED | +26VR

22.5VAC | POWER ±0V | 8.9VAC | LOGIC ±0V | IN6719 | IN759A | IN746A

GAUGE | PT-2 | +0251 | +5VR | +8VR (EXT)

TO RL-2 COIL

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	MC846G OR 9946 MOTOROLA FAIRCHILD	14	7	1
L13, 14	SN7475N TEXAS INST.	14	7	2

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

COMPONENT	SIZE/TYPE	QTY
R1	680Ω	2
R2	10K	2
R3	56Ω	2
R4,7,11	1K	11
R5	330Ω	13
R6	2.2K	13
R8,9,12	18K 5%	17
R10,14	1.5K	9
R13	2.5K POT	1
R15	4.7K	1
C	SEE CHART	
D	380-1001	122
D1	380-1004	2
Q2,3	2N3725	15
Q1,11,12	GT344	4
Q 7,10	2N5189	2
Q4,5,6,8,13	2N3014	12
Q9	9322A	1

NOTE:
1. ALL DIODES ARE WL380-1001 EXCEPT AS NOTED (QTY 122)
2. ALL RESISTORS ¼W EXCEPT AS NOTED.

5 REV. 2-29-72 PA
PER ECN# 2787 ADDED 0.1 MF CAP. AND 1 MEG RESISTOR BETWEEN CHASSIS GND AND ±0V APP.- SKH
6 REV. 6-11-73 PA
PER ECN# 3647 Q2,3 WERE 2N5189 APP'D - SKH

REV. B 2/8/73 PA
PER ECN# 4043
APP:D J.N.F
REV 9 6-23-75
PER ECN# 4877 SKH
APP'D
1-REV. 5/20/70 PA
PER ECN 1593 APP. RJT
2-REV 8/27/70 PA
PER ECN 1595 ADDED CAP VALUE 10/16V
APP. RJT
3-REV 6/25/70 PA
PER ECN 1593 ADDED 2 DIODES TO RL-2 COIL CIRCUIT, AND REMOVED 5 MF 15V CAP.
APP. RJT
4-REV. 5/13/71 PA
PER ECN# 3195 CAP. BETWEEN LOGIC ±0V TO +5VR WAS 100 MF/15VDC NOW 50 MF/50VDC. APP: RT
5 REV. 10-4-73 PER ECN# 3897 PA

TYPICAL CIRCUIT — +5VR, R1, Q1, R3, Q2, R4, +2.6VR, A1, B1, D1, POWER ±0V, SYMBOL DR-2

TYPICAL CIRCUIT — +5VR, R7, R8, R9, R10, C, Q4, ±0V, SYMBOL PG

TYPICAL CIRCUIT — +5VR, R5, Q3, R6, POWER ±0V, SYMBOL DR-1

+5VR, R11, R12, R13, R14, R15, C, Q5, ±0V, SYMBOL PG

CONN 1

+2.6VR	A1	PRINT
	B2	INDEX
+2.6VR	C3	SPACE
	D4	LOGIC ±0V
CL. TAB	E5	
RETURN.	F6	
BK SPACE	H7	TAB
R_{2A}	J8	SHIFT
T_2	K9	PR.CYCLE
SET TAB	L10	CR_0
T_1	M11	KB LOCK
R_2	N12	
R_5	P13	
R_1	R14	+V TO R1-2
TAB CONTACT	S15	±0V

CONN. 2

+5VR	A1	(CKT) +5VR
LOGIC ±0V	B2	±0V PWR
(+5V) PT 2 BASE	C3	
+5V VAREG.	D4	
+2.6VR	E5	
	F6	
8.9 VAC	H7	+2.6VR
22.5 VAC	J8	
	K9	22.5VAC
8.9 VAC	L10	
RH COIL	M11	PT1 BASE (+2.6V)
+2.6 V UNREG.	N12	
RL1 COIL	P13	
	R14	
	S15	

CONN. 3

TKWS	A1	±0V
±0V	B2	
TKA_1	C3	RBS
±0V	D4	CHASSIS
TKA_0	E5	
±0V	F6	
TKB_1	H7	
±0V	J8	
TKB_0	K9	
±0V	L10	
TKB_2	M11	
±0V	N12	TYRLY
TKB_3	P13	
	R14	+TRD
±0V	S15	

(20 MS)

		NAME	MATERIAL	DESCRIPTION
			DR VB	DATE 3/16/70
		WANG LABORATORIES, INC. TEWKSBURY, MASS. U. S. A.	CHK JT	DATE 4-17-70
			APPD	DATE 4-17-70
		MODEL No. 601/701/2201 W.O. No.	SCALE	SHEET OF
		TITLE SCHEMATIC LOGIBLOC OUTPUT WRITER SC 6053		
		210-6053-1	9 REV	D SIZE 6053 DRAWING NUMBER

FRACT. ±1/64 DEC. ±.010 ANGL. ±0° 30' DEC. ±.005 FINISH

MAY 19 197

SH. 4 OF 5

DO NOT SCALE

PRINT DIGIT #0 DIGIT #1 DIGIT #2 DIGIT #3 DIGIT #4 DIGIT #5 DIGIT #6 SIGN EXECUTE

+5VR ±0V

L15 L22 L21 L20 L19 L18 L17 L16 L15

PRT SW10

SIGN SW 11

EXECUTE SW 12

L9

R32 R33 R34 R35 +5VR

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

D1 D2 D3 D4 D5 D6 D7 D8

R36 +5VR DATA SW 13 DATA

R37 +5VR

SOLDER POINTS

$\overline{GKB_0}$ $\overline{GKB_1}$ $\overline{GKB_2}$ $\overline{GKB_3}$ $\overline{GKA_0}$ $\overline{GKA_1}$ $\overline{GKA_2}$ $\overline{GKA_3}$ $\overline{GISN}$ PRMS

CABLE CONNECTOR

SW1 SW2 SW4 SW8

$\overline{I_0B_3}$ $\overline{GI_0B_0}$ $\overline{GI_0B_1}$ $\overline{GI_0B_2}$ $\overline{GI_0B_3}$ $\overline{GI_0A_0}$ $\overline{GI_0A_1}$ $\overline{GI_0A_2}$ $\overline{GI_0A_3}$ $\overline{I_0B_1}$ $\overline{GISO}$ $\overline{GKBD}$

CABLE CONNECTOR

$\overline{DG_0}$ $\overline{DG_1}$ $\overline{DG_2}$ $\overline{DG_3}$ $\overline{DG_4}$ $\overline{DG_5}$ $\overline{DG_6}$ $\overline{DG_7}$ $\overline{DG_8}$

C11 C12

P1

DIGIT #1 DIGIT #0 DIGIT #3 DIGIT #2 DIGIT #5 DIGIT #4 DIGIT #6 EXECUTE ±0V +5VR R40 CHASSIS GND SIGN PRINT

COMP. SIDE WIRING SIDE

CABLE CONN.

$\overline{GI_0B_0}$ $\overline{GKA_0}$ $\overline{GI_0B_1}$ $\overline{GKA_1}$ $\overline{GI_0B_2}$ $\overline{GKA_2}$ $\overline{GI_0B_3}$ $\overline{GKA_3}$ $\overline{GI_0A_0}$ $\overline{GKB_0}$ $\overline{GI_0A_1}$ $\overline{GKB_1}$ $\overline{GI_0A_2}$ $\overline{GKB_2}$ $\overline{GI_0A_3}$ $\overline{GISN}$ I_0B_1 PRMS $\overline{I_0B_3}$ $\overline{GISO}$ $\overline{GKBD}$ ±0V CHASSIS GND

LOCATION	TYPE	WANG LAB. No.	TERM. No. V_{cc} +5VR	TERM. No. ±0V	QTY
L3, 4, 9	8T09	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 ¼W	330-1047	1
R40	10Ω ¼W	330-1010	1
C1	4000 μF 15VDC	300-3016	1
C2, 3	10 μF 15VDC	300-3006	2
C4 THRU C10	.05 μF	300-1900	7
D1 THRU D8	SIL DIODE	380-1001	8
D9, 10	EM403	380-4000	2
D11	IN752A	380-2056	1
C11	.001 μF	300-1906	1
C12	.22 μF	350-1202	1
T1	MM5040S1	410-0067	1
F1	.125ASB 110VAC	380-1000	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

POWER F1 T1 FOR 230V INPUT 115VAC 60 Hz BLK GRN WHT D9 D10 D11 Q1 R38 R39 C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 +5VR ±0V

6117 C1 T1 Q1 SW8 SW4 SW2 SW1 SW13 SW12 SW10 SW11 19 36

NO.	REVISION	BY	DATE

IDENT	QTY	NAME	MATERIAL	DESCRIPTION

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

MATERIAL

FINISH

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

DR DATE 7/2/71

CHK DATE 7/6/71

APPD DATE 10/6/71

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

TITLE SCHEMATIC, LOGIBLOC, INTERFACE # 6117

PART NUMBER REV D SIZE 6117-1 DRAWING NUMBER

6117-1

DO NOT SCALE

FROM PHOTO TRANSISTORS

CH 10 (3) R1 C1 R11 R12 R31 R32 L1 D1 R51 D11 D12 L14
CH 9 (4) R2 C2 R13 R14 R33 R34 L2 D2 R52 D13 D14 L14
CH 8 (5) R3 C3 R15 R16 R35 R36 L3 D3 R53 D15 D16 L13
CH 7 (6) R4 C4 R17 R18 R37 R38 L4 D4 R54 D17 D18 L13
CH 6 (7) R5 C5 R19 R20 R39 R40 L5 D5 R55 D19 D20 L13
CH 5 (8) R6 C6 R21 R22 R41 R42 L6 D6 R56 D21 D22 L13
CH 4 (9) R7 C7 R23 R24 R43 R44 L7 D7 R57 D23 D24 L12
CH 3 (10) R8 C8 R25 R26 R45 R46 L8 D8 R58 D25 D26 L12
CH 2 (11) R9 C9 R27 R28 R47 R48 L9 D9 R59 D27 D28 L12
CH 1 (12) R10 C10 R29 R30 R49 R50 L10 D10 R60 D29 D30 L12

+5VR ±0V -10V +10V

APPROX. 1V APPROX. 3V APPROX. 2V 0V +10V 0V -10V

5V 0V 3.5V TYP. 0.4V MAX 5 M SEC

L15 L21 L20 L19 L18

3.3V TYP. 0.4V MAX. 14 MSEC

L25 L22

RESET

L17 L11

34 $\overline{KA_3}$ 32 $\overline{KA_2}$ 30 $\overline{KA_1}$ 28 $\overline{KA_0}$ 26 $\overline{KB_3}$ 24 $\overline{KB_2}$ 22 $\overline{KB_1}$ 20 $\overline{KB_0}$ 13 GRY

3.5V TYP. 0.4V MAX. 20μSEC.

D38 +5VR

L25 3.5V TYP. 20 μSEC 0.4V MAX.

L16 R62 C15 3.3V TYP. 10μ SEC 0.4V MAX.

C16 L22

L15 3.5V TYP. 20μSEC 0.4V MAX. 15 $\overline{CRI}$

C17 R63 R64 D33 D34 D35 11 $\overline{KBL}$ C18 ±0V

D36 ±0V R65 -17V -10V +17V 2 Q1 R66 D37 ±0V +10V

REF. ONLY PHOTO-TRANSISTORS., (10) MTD. P.C. BD. 6012 SEE DWG. D6010-1 CH. 1 2 SIG. GND.

A N.O. N.C. SW1 B N.C. N.O. SW2 SRT P

6μf ±0V 15V 220Ω 2W 15 -17V RED WHT. MOTOR

MOUNTED EXTERNALLY ON READER

17 +5VR 18 36 ±0V 1 CHA. GND.

C19 +5VR C20 +10V C21 -10V ±0V

C22 C23 C24 C25 C26 ±0V +5VR

I.C. LOCATION | TYPE | W.L.NO. | TERM FOR ±0V | TERM FOR VCC +5V | QTY.

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	SN7412N	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	IN758A 10V ZEN.	380-2100	1
D37	IN962B 11V ZEN.	380-2126	1
J1	225-21521-110	350-0011	1

J1 SIGNAL-TERMINAL DESIGNATIONS, VIEW FROM BOTTOM (WIRING) SIDE OF CONN.

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

SEE CABLE DWG. D6010-1

COMPONENT LAYOUT 6125

Q1 R10 R9 R8 R7 R6 R5 R4 R3 R2 R1 J1 1 15 L10 L9 L8 L7 L6 L5 L4 L3 L2 L1

L16 L15 L14 L13 L12 L11 L22 L21 L20 L19 L18 L17 L25 L24 L23

+17V -17V $\overline{KA_0}$ $\overline{KA_2}$ $\overline{KB_0}$ $\overline{KB_2}$ $\overline{KB_1}$ $\overline{KB_3}$ $\overline{KA_3}$ $\overline{KA_1}$ KBL $\overline{CRI}$ ±0V +5VR $\overline{GRY}$ CH. GND.

SEE DWG. 6125-1 SHT 2

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.#2634 APP'D SEM	12/71	F.S.S.
2	REVISED PER E.C.#2632 APP'D SEM	12/71	F.S.S.
3	REVISED PER E.C.#2638 APP'D SEM	1/72	F.S.S.
4	REVISED PER E.C.#2667 APP'D SEM	1/72	F.S.S.
5	ADDED SHT 2 APP'D	8-2-73	

IDENT	QTY	NAME	MATERIAL	DESCRIPTION

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

MATERIAL

FINISH

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

DR F.S.S. DATE 8-12-71

CHK DATE 12/25/71

APPD DATE 12/25/71

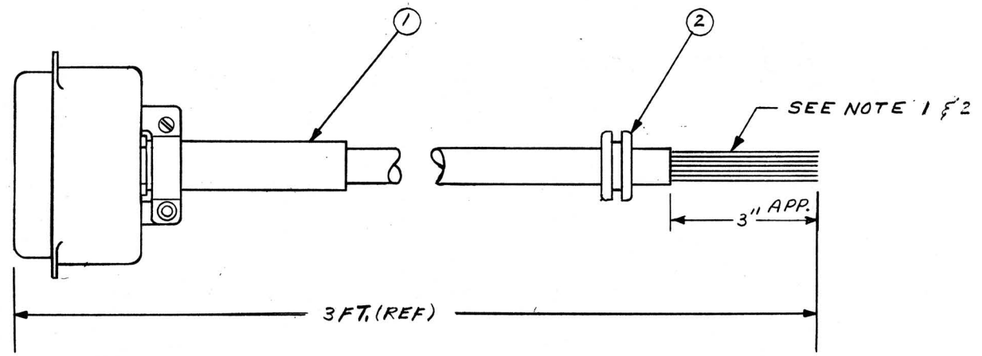
MODEL No. 514 W.O. No. SCALE SHEET 1 OF 2

TITLE MARK SENSE CARD READER, SCHEMATIC LOGIBLOC

PART NUMBER 5 REV D SIZE 6125-1 DRAWING NUMBER

D 6125-1

REVISIONS



ASSEMBLY SIGNAL	CABLE SEE DWG. 6125-1 FOR S.P.	CABLE WIRE NO.	CABLE 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 SIGNAL	CABLE SEE DWG. 6125-1 FOR S.P.	CABLE WIRE NO.	CABLE 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	654-1212	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	CHECKED	APP.	APP.
514	F.S.S. 10-20-71		H.L.V.	

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

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

1-52190 ON SMQ

DO NOT SCALE

FROM PHOTO TRANSISTORS

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

+5VR ±0V -10V +10V 5V 0V

APPROX. 1V APPROX. 3V APPROX. 2V

3.5V TYP. 0.4V MAX. 5M SEC.

3.5 V TYP. 0.4V MAX. 20μ SEC

3.3V TYP. 0.4V MAX. 14 M SEC.

GPRM (10)

RESET

STROBE

GKA3 GKA2 GKA1 GKA0

GKB3 GKB2 GKB1 GKB0

IOB1 IOB3

GISN

GLRN

+5VR ±0V -10V +10V -17V

115VAC 60 ~ 220VAC 50 ~

JMPR 115VAC JMPR 115VAC JUMPER 230 VAC

F1

T1

MTD. EXT. 16w 3¼W

16V 12V 24VRMS .6A 12V

REF. ONLY PHOTO-TRANSISTORS (10) MTD. P.C. BD. 6012

CH. SIG. GND.

SEE DWG. D6010-1

SRT

SILICON DIODES W.L.380-1001.(4)

6μf 15V 220Ω 2W

MOTOR RED WHT.

SW1 SW2 N.O. N.C. MOUNTED EXTERNALLY ON READER

MARK DECODE

GI0A0Fb GI0B3Fb GI0A1Fb GI0B2Fb GI0A2Fb GI0B1Fb GI0A3Fb GI0B0Fb GIS0 (STROBE)

CHASSIS GND.

NOTE: 1. □ PIN NO.'S P1 FROM DWG. □ 6127-

NO	REVISION	DATE	BY	E.K	JB
1	REVISED PER E.C. #2669 ADD'D SCH	12 F.S. 7 S.S.	11 S.		
2	REVISED PER E.C. #2669 APP'D SCH	12 F.S. 7 S.S.	11 S.		
3	REVISED PER E.C. #2633 ADD'D SCH	12 F.S. 7 S.S.	11 S.		
4	REVISED PER E.C. #2639 ADD'D SCH	12 F.S. 10 S.S.	11 S.		
5	REVISED PER E.C. #2702 ADD'D SCH	1 F.S. 10 S.S.	12 S.		
6	REVISED PER E.C. #3161 ADD'D SCH	12 F.S. 0 S.S.	12 S.		
7	REVISED PER E.C. #3301 ADD'D SCH	10 F.S. 10 S.S.	12 S.		
8	REVISED PER E.C. #3375 ADD'D SCH	12-5-73		8-2-73	
9	PIN ENUMERATIONS ADDED WIRING CHART ADD'D				

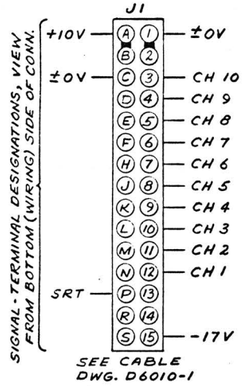
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	CHECKED	APP.
714	FSS 11-2-71		

TITLE: SCHEMATIC LOGIBLOC MARK SENSE CARD READER

SHT 1 OF 2 | DWG. NO. D 6127-1 | REV. 9

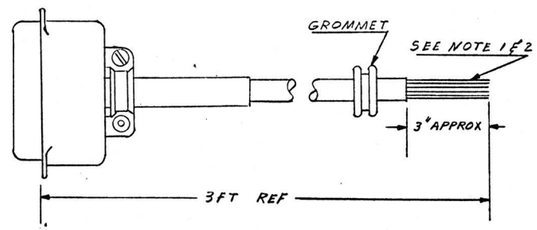
D 6127-1



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

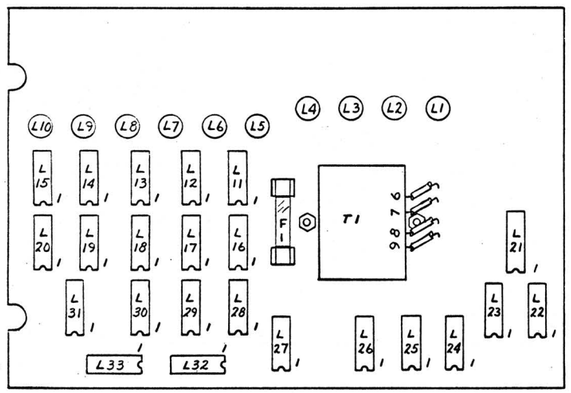
COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
D1,2,3,4,5,6,7,8,9,10, 11,12,13,14,15,16,17, 18,19,20,21,22,23,24, 25,26,27,28,29,30, 31,32,35,36,37,38,39,40	ADAM SIL.	380-1001	38
D33,34	GERM	380-0000	2
D41,42,43,44,45	EM403 REC.	380-4000	5
D46	IN758A 10V ZEN	380-2100	1
D47	IN4741 11V ZEN	380-2110	1
D48	IN4733A 5.1V ZEN	380-2052	1
T1	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

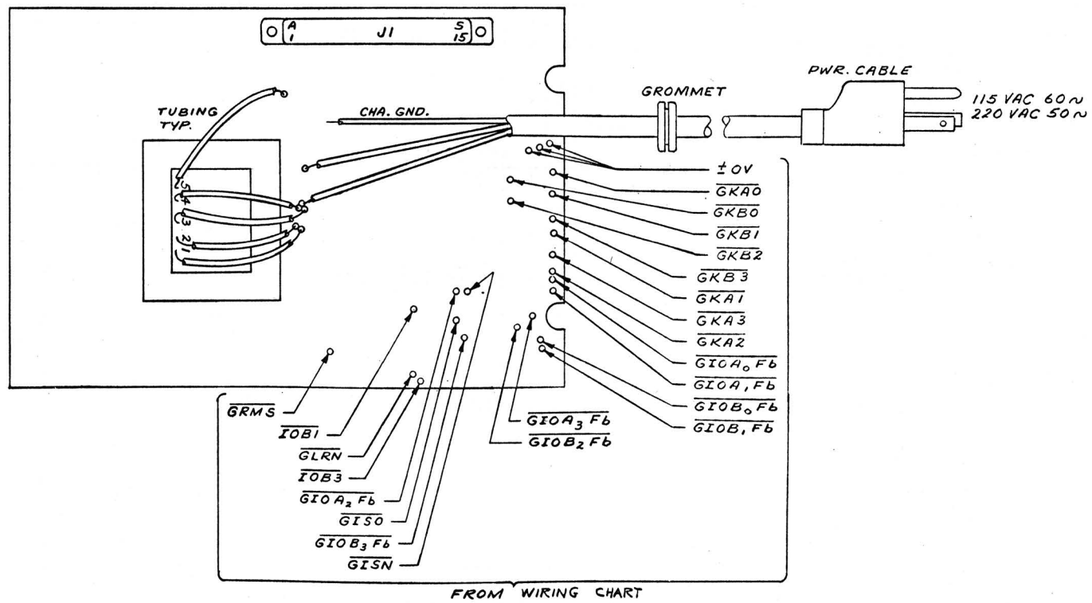
I.C. LOCATION	TYPE	W.L. NO.	TERM FOR -10V	TERM FOR VCC +5V	QTY.
L1,2,3,4,5,6,7,8,9,10	F741C	376-0074			10
L11,13,14	SP380A	376-0061	1	8	3
L12	SN7430N	376-0031	7	14	1
L15,20	F9946	376-0023	7	14	2
L16,17,18,19,28,32,33	SN7400N	376-0002	7	14	7
L21	SN74123N	376-0080	8	16	1
L22	SN7412IN	376-0051	7	14	1
L23	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	GISO	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

DO NOT SCALE

FROM PHOTO TRANSISTORS

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

+5VR ±0V -10V +10V

R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 C1 C2 C3 C4 C5 C6 C7 C8 C9 C10

R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30 R31 R32 R33 R34 R35 R36 R37 R38 R39 R40 R41 R42 R43 R44 R45 R46 R47 R48 R49 R50

L1 L2 L3 L4 L5 L6 L7 L8 L9 L10

D1 D2 D3 D4 D5 D6 D7 D8 D9 D10

5V APPROX. 1V APPROX. 3V APPROX. 2V 0V

R51 R52 R53 R54 R55 R56 R57 R58 R59 R60

D11 D12 D13 D14 D15 D16 D17 D18 D19 D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30

L11 L13 L14

5V 0V L13 3.5V TYP. 0.4V MAX. 5M SEC.

GPRM 10

L27 L16 L17 L18 L19

R61 R62 R63 R64 R65 R66

RESET

L33 L20 L15 L12

4 GKA3 3 GKA2 2 GKA1 1 GKA0

3.5V TYP. 0.4V MAX. 20μ SEC

3.3V TYP. 0.4V MAX. 14 M SEC.

8 GKB3 7 GKB2 6 GKB1 5 GKBC

L25

C13 D33 L30 L31 R70 GISN

L32 L26 L28 L24 L22 L29 L25 L32 L33

L25 L29 L30 L33 IOB1 IOB3

GLRN

R72 D34

SRT

STROBE

L25 L24 L23 C16 C17 L32

C14 R71 D32 C18 L23

1CEXT 1C/R 1B L21 1Q 1A

C12 R68 L21 2CEXT 2C/R 2A 2B 2Q

R67 C11 L22 Vcc TP TP B Q A2 A1

R69

C15 L23

L25 L25

D35 L23 R73 +10V

L30 R74 +5VR

MARK DECODE L31

D36 D37 D38 D39 D40 L30

24 GI0A0Fb 25 GI0A1Fb 26 GI0A2Fb 27 GI0A3Fb 31 GIS0 (STROBE)

23 GI0B3Fb 22 GI0B2Fb 21 GI0B1Fb 20 GI0B0Fb

33 34 35 ±0V

36 CHASSIS GND.

NOTE:
1. □ PIN NO.'S P1 FROM DWG. C6127-

D41 D42 D43 D44 D45 D46 D47 D48

C19 C20 C21 C22 C23 C24 R75 R76

-10V ±0V +10V 3.5W +5VR ±0V

MTD. EXT. 16Ω 3¼W

16V 12V 24VRMS 6A 12V

T1 JMPR 115VAC JMPR 115VAC JUMPER 230VAC F1

115VAC 60~ 220VAC 50~

C25 C26 C27 C28 C29 C30 C31

REF. ONLY PHOTO-TRANSISTORS (16) MTD. P.C. BD. 6012 SEE DWG. D6010-1 CH. 1 2 SIG. GND.

A N.O. N.C. SW1 B N.O. N.C. SW2 MOUNTED EXTERNALLY ON READER

•6μf 15V ±0V SILICON DIODES W.L. 380-1001 (4) 220Ω 2W RED WHT. MOTOR 15 -17V

NO	REVISION	BY	CHK'D	APP'D
1	REVISED PER ECN #2601	E.S.S.		
2	REVISED PER ECN #2609	E.S.		
3	REVISED PER ECN #2636	E.S.		
4	REVISED PER ECN #2640	E.S.		
5	REVISED PER ECN #2711	E.S.		
6	REVISED PER ECN 3001	E.S.S.		
7	REVISED PER ECN 3293	E.S.		EK 7-25-73

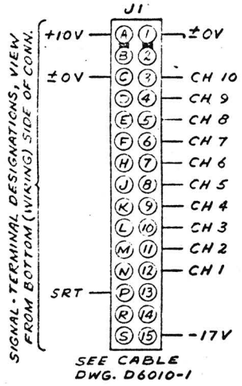
WANG LABORATORIES INC.
TEWKESBURY, MASS.

MODEL NO. 614 DRAWN E.S.S. 11-2-71 APP. CHK'D APP.

TITLE SCHEMATIC LOGIBLOC MARK SENSE CARD READER

SHT 1 OF 2 DWG. NO. D 6127-2 REV. E

D 6127-1

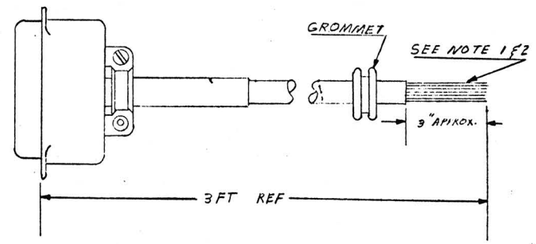


COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
C1,2,3,4,5,6,7,8,9,10	.01μf 25V	300-1003	10
C11	1μf 100V	300-2290	1
C12	.0022μf 100V	300-2022	1
C13,23,24,25	10μf 15V	300-3006	4
C14,17	.0047μf 100V	300-2047	2
C15,16,18	.01μf 100V	300-2110	3
C19	500μf 25V	300-3021	1
C20	3000μf 15V	300-3015	1
C21	100μf 25V	300-3033	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

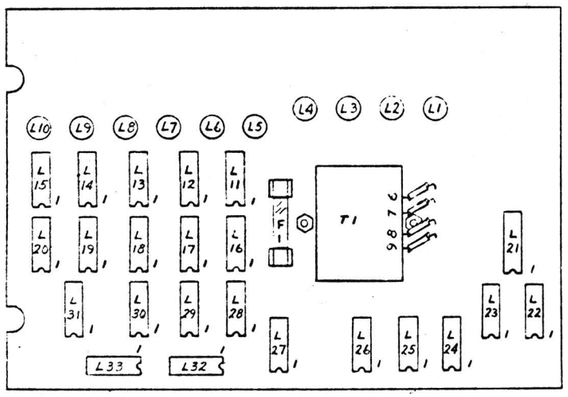
COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
D1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,35,36,37,38,39,40	ADAM SIL.	380-1001	38
D33,34	GERM	380-0000	2
D41,42,43,44,45	EM403 REC.	380-4000	5
D46	IN758A 10V ZEN	380-2100	1
D47	IN4741 11V ZEN	380-2110	1
D48	IN4733A 5.1V 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	360-0062	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	C6482-2	220-2636-3	1

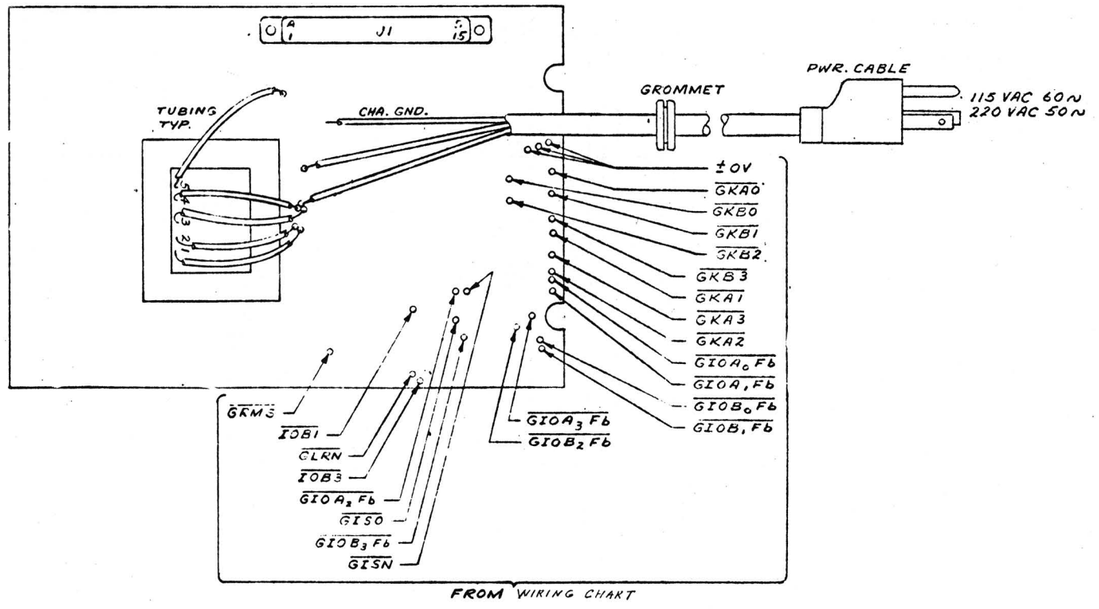
I.C. LOCATION	TYPE	W.L. NO.	TERM FOR -17V	TERM FOR VCC +5V	QTY.
L1,2,3,4,5,6,7,8,9,10	F741C	376-0074			10
L11,13,14	SP380A	376-0061	1	8	3
L12	SN7430N	376-0031	7	14	1
L15,20	F9946	376-0023	7	14	2
L16,17,18,19,28,32,33	SN7400N	376-0002	7	14	7
L21	SN74123N	376-0080	8	16	1
L22	SN7412IN	376-0051	7	14	1
L23	F9935	376-0025	7	14	1
L24	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.



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	GI50	25	25
GKB3	8	8	GIOA2	26	26
GISN	9	9	GIOA3	27	27
FRMS	10	10	IOB1	28	28
GLRN	11	11		29	29
	12	12	IOB3	30	30
	13	13	GI50	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

NO	REVISION	BY	DATE
B	PER ECN A 3715 APPEND WIRING CHART ADDED	[illegible]	C-1-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

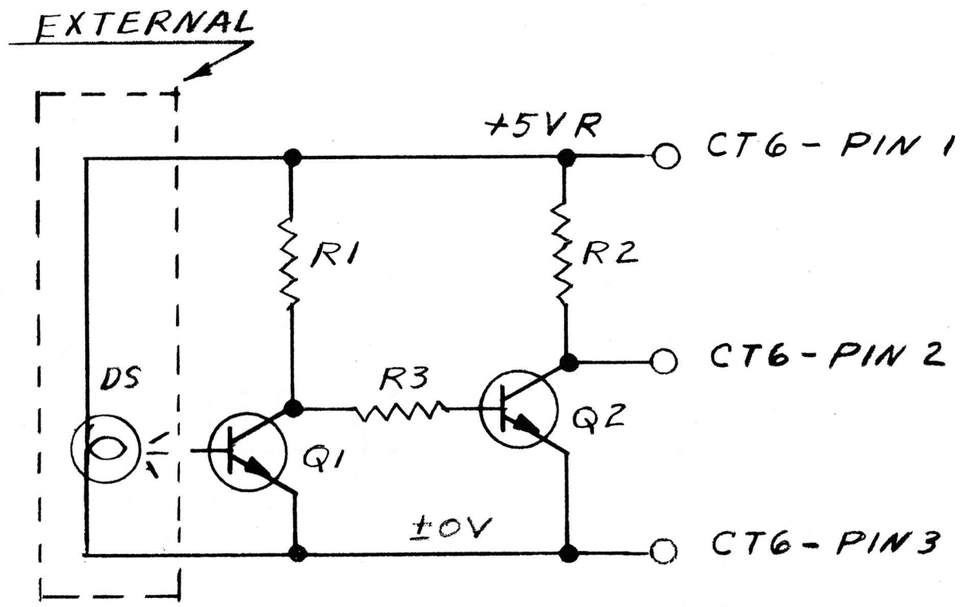
MODEL NO.	DRAWN	APP.
614	E.S.S. 11-5-71	[illegible]
	CHECKED	APP.

TITLE
SCHEMATIC LOGIBLOC
MARK SENSE CARD READER

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

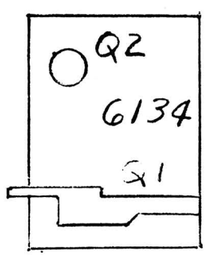
D 6127

DO NOT SCALE



COMP.	SIZE/TYPE	WANG PART No.	QTY
R1	47K 1/4W	330-4047	1
R2	4.7K 1/4W	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 SKH



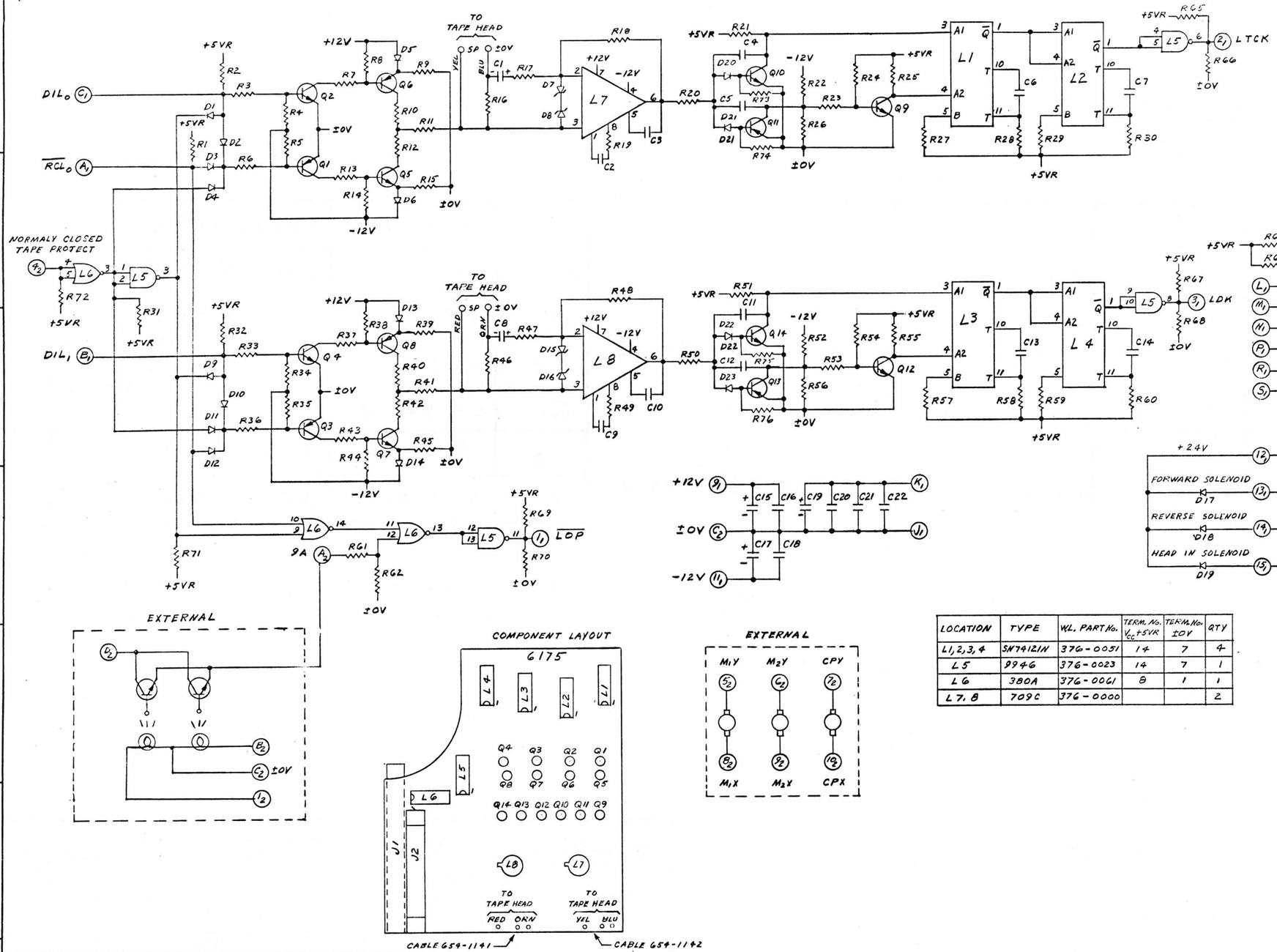
WANG LABORATORIES, INC.
TEWKSBURY, MASS. U. S. A.

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

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

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

DO NOT SCALE



LOCATION	TYPE	W.L. PART No.	TERM. No. V_{CC} +5VR	TERM. No. ±0V	QTY
L1,2,3,4	SN7412IN	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

COMPONENT	SIZE/TYPE	W.L. PART No.	QTY
RG5,67,69	3.9K ¼W	330-3039	3
R30, 60	39K ½W RNGSD	330-0037	2
R5,35,56,25,70	4.7K ¼ W	330-3034	5
R1,27,29,57,59,61	1K ¼ W	330-3010	6
R2,7,13, 25,32, 37,45, 55,71	10K ⅛ W	330-4010	9
R3, 6, 33, 36	6.8K ¼ W	330-3068	4
R4, 34	100K ½ W	330-5010	2
R16,22,48,53	4.7K ¼ W	330-3047	4
R72, R8,14,31,38,44	2.2K ¼ W	330-3022	6
R73,74,75,24,15,26,33,45,56	22K ¼ W	330-4022	10
R10,11,12,40,41,42	1.2K ¼ W	330-3012	6
R17, 47	82Ω 2% ¼ W	333-0042	2
R18, 46	120K 2% ¼ W	333-0048	2
R19, 49	1.5K ¼ W	330-3015	2
R21, 51	15K ¼ W	330-4015	2
R22,23,52,53	12K ¼ W	330-4012	4
R24, 54	27K ¼ W	330-4027	2
R28, 58, 62	39K ¼ W	330-4039	3
R63, 64	33Ω ½ W	330-1033	2
C1, 8	16MF 1 VDC	300-1016	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	.0022 MF	300-2022	2
C7, 14	1500 PF	300-5000	2
C15, 17, 19	10 MF 16VDC	300-3006	3
C16,18,20,21,22	.02 MF	300-1904	5
D20,21, D1,2,3,4,5,6, 22,23 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
Q 9, 12	SIL TRANSISTOR	375-1005	2

NO.	REVISION	BY	DATE
1	PER ECN 3070 TAPE PROTECT WAS ON (3) APPLIED CIRCUIT L6 - FINALS AND 2.2A RESISTOR. APP'D SKH	SKH	6-20-72
2	REVISED PER ECN 3080 APP'D SKH	SKH	7-5-72
3	REVISED PER ECN 3088 APP'D SKH	SKH	7-5-72
4	REVISED PER ECN #3092 APP'D SKH	SKH	7-18-72
5	REVISED PER E.C.N. #3098 APP'D SKH	SKH	7/27/72
6	PER ECN 3131 Q10, 14 WAS SIL TRANSISTOR APP'D SKH	SKH	8-10-72
7	PER ECN #3152 DELETE KEY BETWEEN PINS 1&2 ON J1 APP'D SKH	SKH	8-28-72
8	PER ECN #3183 ADDED R71, 1K TO +5VR APP'D SKH	SKH	9-30-72
9	PER ECN #3249 C16 WAS 2.5MF 16V APP'D SKH	SKH	9-27-72
10	PER ECN #3268 R20,50 WAS 10K APP'D SKH	SKH	10-30-72

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 1200 | DRAWN SKH 12/3/71 | APP. [illegible] 3/17/72 | CHECKED | APP.

TITLE SCHEMATIC, LOGIBLOC # 6175 LEFT & RIGHT TAPE DECK

SHT OF | DWG. NO. D 6175-1 | REV. 10

D 6175-1

I.C. LOCATION	TYPE	W.L. No.	TERM FOR +0V	TERM FOR +5VR	QTY.
L1,6	F9936	376-0026	7	14	4
L2,8,31,43	SN7400N	376-0002	7	14	4
L3,39,41	SN7412N	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	SN74175N	376-0013	12	5	2
L12,24,25,36,37,38	SN7413N	376-0053	9	16	6
L13,32,42	SN7404N	376-0055	7	14	3
L14	F9935	376-0025	7	14	1
L17	F9930	376-0022	7	14	1
L18,35	SN7474N	376-0005	11	4	2
L19,27	F9583	376-0033	7	14	2
L21	82-12	376-0040	7	14	1
L28	F9916	376-0023	7	14	1
L33,46	SN7400N	376-0002	7	14	2
L34,47,48	SN74151N	376-0012	7	14	3
L40	SPARE				
L44,49	SN74132N	376-0008	9	16	2

COMPONENT	SIZE, TYPE	W.L. No.	QTY
R1,8,11,16,22	10K ¼W	330-4010	5
R2,3,9,5,6,12,24, 26,27,28,29,30, 31,32,33	4.7K ¼W	330-3047	16
R7	6.8K ¼W	330-3068	1
R9	47Ω ¼W	330-7047	1
R10,21	33K ¼W	330-4033	2
R13,14	2.2K ¼W	330-3022	2
R15	22K ¼W	330-4022	1
R17,19	220Ω ¼W	330-2022	2
R18	180Ω ¼W	330-2019	1
R20	1.0K ¼W	330-3010	1
R23	1.5K ¼W	330-3015	1

COMPONENT	SIZE, TYPE	W.L. No.	QTY
C1,2	220mfd 15V	300-1220	1
C3	.01mfd 50V	300-1007	1
C4,6,7	.330mfd 50V	300-1330	3
C5	.820mfd 15V	300-1820	1
C8	.56mfd 50V	300-1156	1
C9	.0047mfd 250V	300-1913	1
C10	.033mfd 100V	300-1905	1
C11	150mfd 15V	300-1150	1
C12	470mfd 15V	300-1520	1
C13,27,28	100mfd 15V	300-3006	3
C14	1.0mfd 25V	300-3032	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
D5	INTEGRATED 3.3V	380-2068	1
D7	INTEGRATED 6.2V	380-2062	1
Q1	2N706 GERM.	375-0002	1
XTAL	3 MC .05%	321-0009	1
SW	SPDT SLIDE SW.	325-2105	1

REV.	REVISION	DATE	APPD.
1	ADDED R27 THRU R33 PER ECN 9068	10/1/71	
2	ADDED D7 PER ECN 9058	10/1/71	

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

CONN. 1 — COMP. SIDE / WIRING SIDE

		1	$\overline{MD_8}$
+5VR		3	
+0V		5	
		7	$\overline{MD_6}$
$\overline{MD_5}$		9	
		11	$\overline{MD_7}$
b_7		13	$\overline{L13_4}$
b_6		15	
		17	$\overline{MD_3}$
b_4		19	$\overline{MD_2}$
b_5		21	$\overline{MD_1}$
b_3		23	b_{11}
b_2		25	b_{10}
b_0		27	b_8
b_1		29	b_9
		31	$\overline{RD}$

CONN. 2 — COMP. SIDE / WIRING SIDE

		1	-12UR
$\overline{M_1}$		3	
		5	-12HR
$\overline{GPRN}$		7	
		9	$\overline{GIoAoF}$
		11	$\overline{GIoBoF}$
		13	$\overline{B_0}$
		15	$\overline{B_7}$
		17	$\overline{B_6}$
		19	$\overline{INH}$
		21	$\overline{GIoB_2F}$
		23	$\overline{GIoA_2F}$
		25	$\overline{B_3}$
		27	$\overline{B_5}$
		29	$\overline{WR}$
		31	
		33	$\overline{B_2}$

CONN. 3 — COMP. SIDE / WIRING SIDE

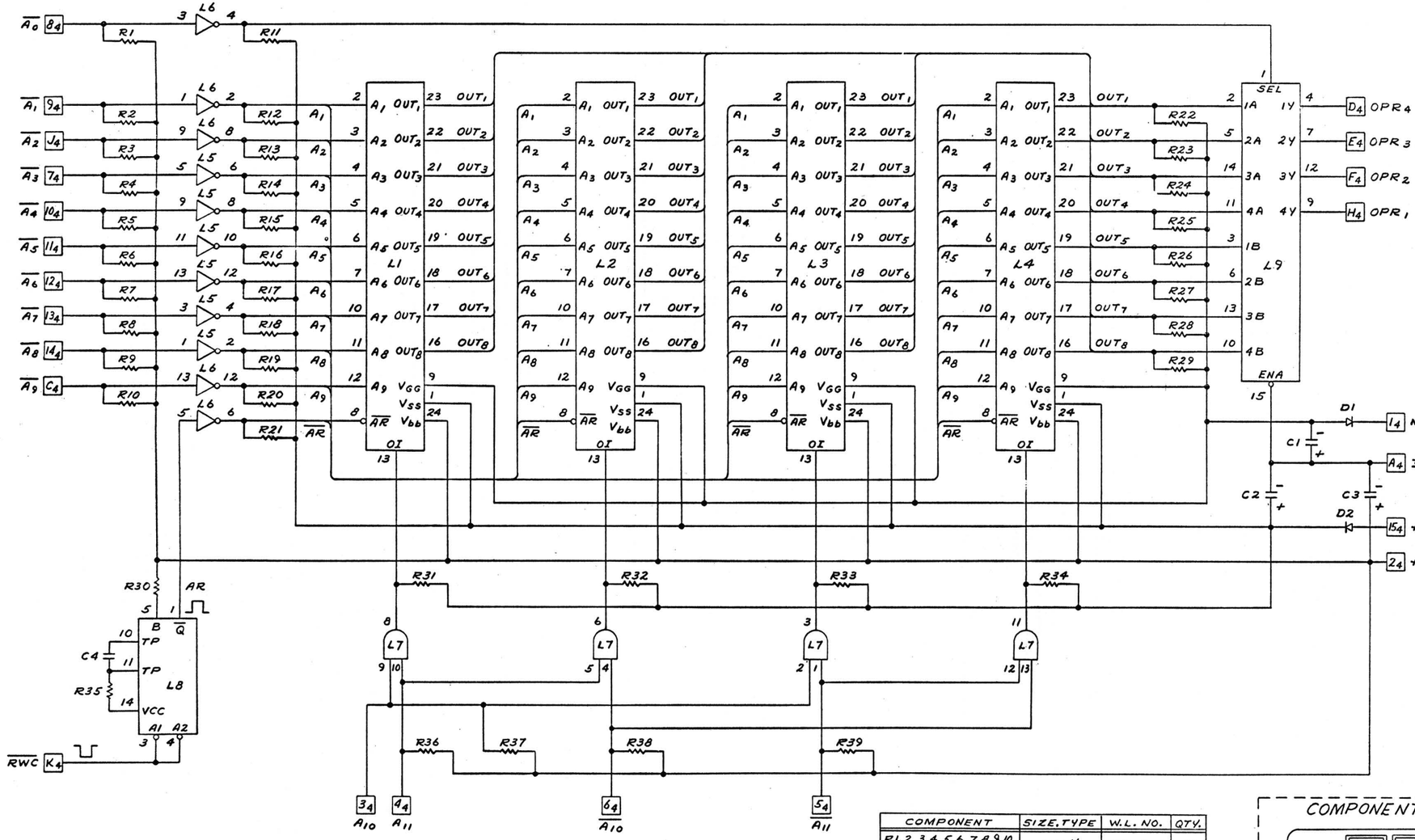
		1	$\overline{IoB_1}$
$\overline{GKBD}$		3	
		5	$\overline{IoB_2}$
$\overline{GISO}$		7	
		9	$\overline{IoB_3}$
		11	$\overline{M_3}$
$\overline{GKB_0}$		13	
		15	$\overline{M_7}$
		17	$\overline{M_0}$
		19	$\overline{M_4}$
$\overline{GKB_3}$		21	
		23	$\overline{GKA_0}$
$\overline{GKA_2}$		25	SW_3
		27	SW_2
$\overline{M_5}$		29	
$\overline{M_2}$		31	$\overline{GISN}$
		33	
$\overline{M_6}$		35	$\overline{GKA_1}$
$\overline{GKB_2}$		37	
		39	
$\overline{B_2}$		41	
		43	
		45	

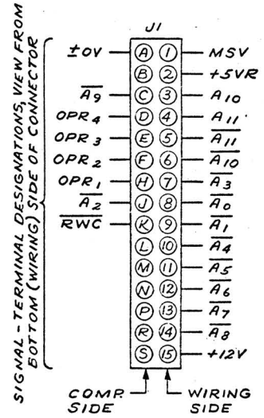
CONN. 4 — COMP. SIDE / WIRING SIDE

SW_1		1	
		3	$\overline{GKB_1}$
SW_0		5	
		7	$\overline{GKA_3}$
$\overline{GIoAoF}$		9	
		11	$\overline{GIoA_3F}$
$\overline{GIoBoF}$		13	
		15	$\overline{GIoB_3F}$
$\overline{B_0}$		17	
		19	$\overline{B_7}$
$\overline{B_6}$		21	
$\overline{INH}$		23	$\overline{B_1}$
$\overline{GIoB_2F}$		25	
		27	$\overline{GIoB_1F}$
$\overline{GIoA_2F}$		29	
		31	$\overline{GIoA_1F}$
$\overline{B_3}$		33	
$\overline{B_5}$		35	$\overline{B_4}$
$\overline{WR}$		37	
		39	+0V
		41	+5VR
$\overline{B_2}$		43	
		45	

COMPONENT LAYOUT 6216

| | | | |





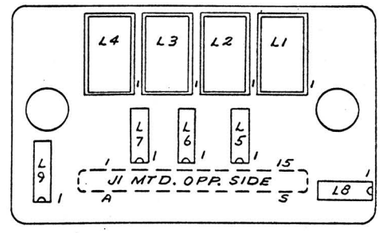
I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	TERM FOR VCC +5VR	QTY.
L1,2,3,4	SEE CHART				
L5,6	SN7406N	376-0055	7	14	2
L7	SN7408N	376-0081	7	14	1
L8	SN74121N	376-0051	7	14	1
L9	SN74157N	376-0082	8	16	1
L1,2,3,4	24 PIN SOC.	376-9003			4

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 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
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	DRAWN	APP'D
1	W/ 600 STAT LOADING 21 WAS 25-40019-4 22 WAS 25-40019-1 WAS EMPTY	4 F.S. 23 S. 13 S.	
2	PER ECN #3850 C4 WAS 100 PF		11-1-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

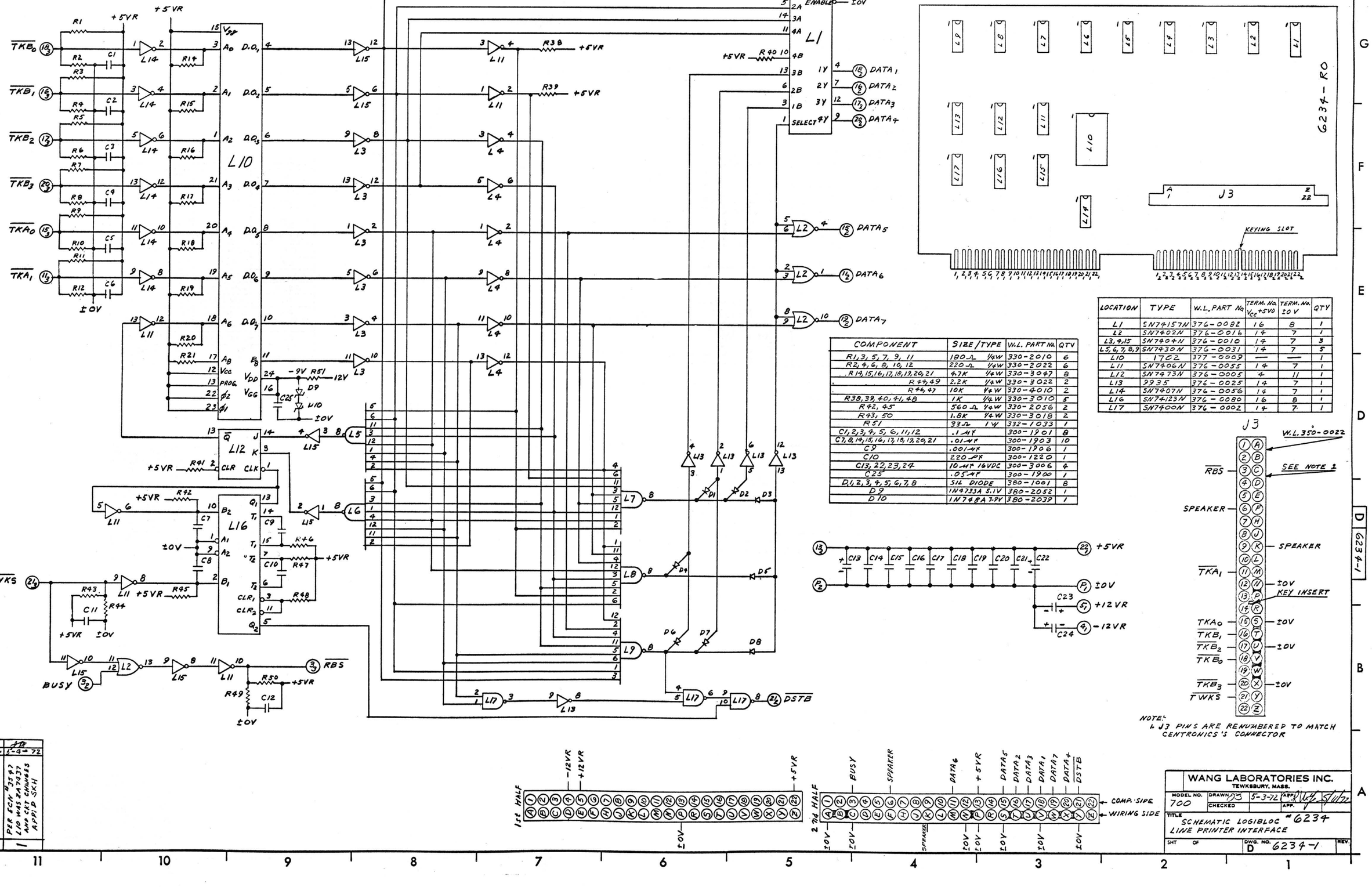
MODEL NO.	DRAWN	CHECKED	APP.	APP.
600	F.S.S. 9-22-72		SKH	1/23/73

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 LAYOUT

COMPONENT	SIZE/TYPE	W.L. PART No.	QTY
R1, 3, 5, 7, 9, 11	180Ω ¼W	330-2010	6
R2, 4, 6, 8, 10, 12	220Ω ¼W	330-2022	6
R14, 15, 16, 17, 18, 19, 20, 21	4.7K ¼W	330-3047	8
R44, 49	2.2K ¼W	330-3022	2
R46, 47	10K ¼W	330-4010	2
R38, 39, 40, 41, 48	1K ½W	330-3010	5
R42, 45	560Ω ¼W	330-2056	2
R43, 50	1.8K ¼W	330-3018	2
R51	33Ω 1W	332-1033	1
C1, 2, 3, 4, 5, 6, 11, 12	.1μF	300-1901	8
C7, 8, 14, 15, 16, 17, 18, 19, 20, 21	.01μF	300-1903	10
C9	.001μF	300-1906	1
C10	220pF	300-1220	1
C13, 22, 23, 24	10μF 16VDC	300-3006	4
C25	.05μF	300-1900	1
D1, 2, 3, 4, 5, 6, 7, 8	SIL DIODE	380-1001	8
D9	IN4733A 5.1V	380-2052	1
D10	IN748A 3.9V	380-2039	1

LOCATION	TYPE	W.L. PART No.	TERM. No. V_{cc} +5V0	TERM. No. 10 V	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	377-0069	—	—	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

J3

W.L. 350-0022

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

NO.	REVISION	BY	DATE
2	PER ECN #3547 L10 WAS 74S287 AND CKT CHANGES APPLIED SKH	SKH	5-9-72
1			

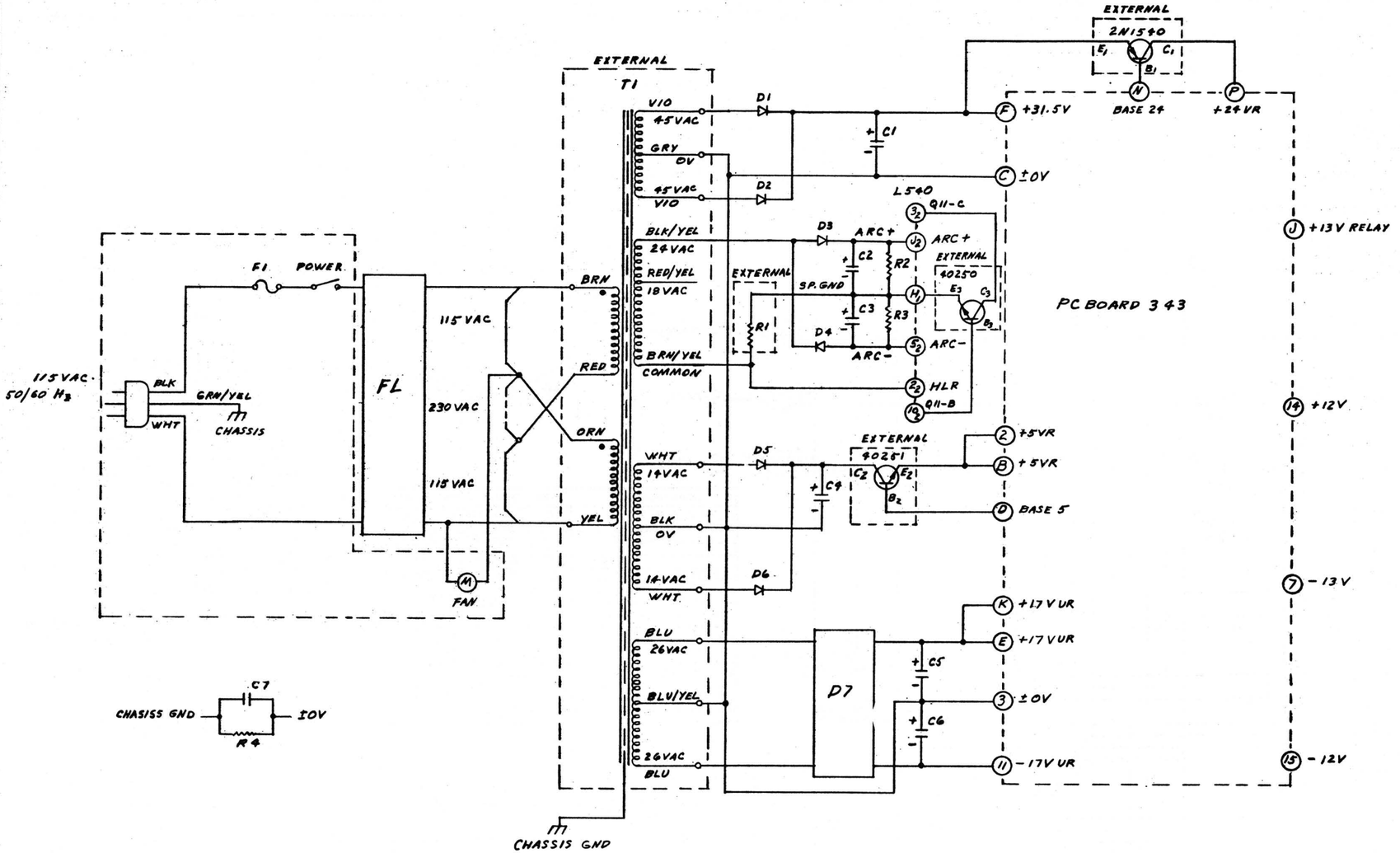
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	DATE	APP.
700	JJ3	5-3-72	
	CHECKED		APP.

TITLE: SCHEMATIC LOGIBLOC #6234
LINE PRINTER INTERFACE

SHT OF | DWG. NO. D 6234-1 | REV.

D 6234-1



COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY
R1	10Ω 10W	333-0046	1
R2,3	1K 2W	337-3010	2
R4	10ΩK ¼W	330-5010	1
C1	2600MF50V	300-3040	1
C2,3,5,6	1000MF50V	300-3055	4
C4	6000MF20V	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 6/1/72 | 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	15 S	
+5VR	14 R	
±0V	13 P	
MXI	12 N	
MXG	11 M	
Q11-B	10 L	
	9 K	M_2R
	8 J	ARC+
M_1R	7 H	
M_1L	6 F	
ARC−	5 E	
M_2L	4 D	
Q11-C	3 C	
HLR	2 B	
MXA	1 A	MXF

L542

+5VR	15 S	$\overline{RIGHT}$
±0V	14 R	
MXB	13 P	MXF
MXD	12 N	$\overline{FOR}$
	11 M	MTONC
RBK	10 L	MXH
	9 K	$\overline{MTONC}$
−13V	8 J	MXG
SP GND	7 H	MXC
MXI	6 F	MXJ
+13V	5 E	
	4 D	
	3 C	
	2 B	MXA
	1 A	MXE

L537

+5VR	15 S	
±0V	14 R	
	13 P	$\overline{CTDWL}$
	12 N	$\overline{CTUPL}$
	11 M	B_3F
	10 L	B_2F
	9 K	B_0F
	8 J	B_1F
	7 H	$\overline{CTUPR}$
	6 F	$\overline{CTDWR}$
	5 E	P_3
	4 D	
	3 C	
	2 B	A_1F
	1 A	

L536

GOS	15 S	$\overline{RL\,II}$
+5VR	14 R	
±0V	13 P	
GOS	12 N	$\overline{WL\,II}$
$\overline{GOSD}$	11 M	$\overline{RL\,I}$
$\overline{WL\,I}$	10 L	
REBL	9 K	
LAP	8 J	
$\overline{RCL_0}$	7 H	DK I II
$\overline{RCR_0}$	6 F	$\overline{RPROT}$
	5 E	$\overline{L\,PROT}$
	4 D	$\overline{WTST}$
DIL_1	3 C	DK II
DIR_1	2 B	DK I
DIL_0	1 A	

L541

+5VR	15 S	$\overline{GKA_0}$
±0V	14 R	
$\overline{GKA_1}$	13 P	
$\overline{GKA_2}$	12 N	$\overline{GKA_3}$
$\overline{GKB_1}$	11 M	
$\overline{GKB_0}$	10 L	$\overline{GKB_3}$
$\overline{GKB_2}$	9 K	$\overline{PERD}$
DK I	8 J	
DK II	7 H	
LDK	6 F	$\overline{P_4}$
LTCK	5 E	GOS
RTCK	4 D	
RDK	3 C	WT
ZDL	2 B	DK I II
	1 A	

L538

+5VR	15 S	
±0V	14 R	
$\overline{MTONC}$	13 P	
FOR	12 N	MTONC
A=BP	11 M	
GISO	10 L	$\overline{P_4}$
$\overline{DL_{13}}$	9 K	RBK
HIRC	8 J	$\overline{RIGHT}$
HILC	7 H	OPQ
$\overline{REBL}$	6 F	
PRR I	5 E	
$\overline{PRF\,I}$	4 D	WEBL
$\overline{PRR\,II}$	3 C	$\overline{WEBL}$
$\overline{PRF\,II}$	2 B	$\overline{WMON}$
	1 A	

L534

+5VR	15 S	$\overline{HKP_4}$
±0V	14 R	
ERROR	13 P	$\overline{MERI}$
ERW	12 N	DK I
$\overline{WMON}$	11 M	$\overline{PER\,I}$
$\overline{MER\,II}$	10 L	$\overline{PERD}$
$\overline{BCCL}$	9 K	DK II
MERD	8 J	$\overline{PER\,II}$
BLCKD	7 H	
	6 F	$\overline{RDST}$
$\overline{Z\,DROP}$	5 E	LPS
$\overline{P_2}$	4 D	ZDL
GOS	3 C	RD
WEBL	2 B	WT
	1 A	

L535

+5VR	15 S	$\overline{HKP_4}$
±0V	14 R	
	13 P	
$\overline{BCCL}$	12 N	BCCL
GPRM	11 M	GOS
OPQP	10 L	QPQ
REWDC	9 K	DK I
	8 J	$\overline{LOP}$
	7 H	DK II
	6 F	$\overline{ROP}$
	5 E	GISO
RRTB	4 D	REWD
I_0B_3	3 C	$\overline{RRTB}$
I_0B_2	2 B	DGISO
I_0B_1	1 A	AGISO

2nd HALF

1st HALF

−12V	15 S	
+12V	14 R	
	13 P	+24V
	12 N	BASE 24
−17VR	11 M	
	10 L	
	9 K	+17VR
	8 J	+13V
−13V	7 H	
	6 F	+31.5VR
	5 E	+17VR
	4 D	BASE 5
±0V	3 C	±0V
+5VR	2 B	+5VR
	1 A	

	15 S	MXB
	14 R	MXD
	13 P	MXH
	12 N	
	11 M	
	10 L	
	9 K	
	8 J	
	7 H	SP GND
	6 F	MXC
	5 E	MXJ
	4 D	+13V
	3 C	±0V
	2 B	+5VR
	1 A	−13V

	15 S	$\overline{PRF\,II}$
$\overline{RSR}$	14 R	$\overline{PRF\,I}$
$\overline{FSR}$	13 P	
$\overline{FSL}$	12 N	
	11 M	$\overline{PRR\,II}$
$\overline{RSL}$	10 L	$\overline{PRR\,I}$
$\overline{HIRS}$	9 K	$\overline{HIRC}$
$\overline{HILS}$	8 J	
	7 H	
	6 F	$\overline{HILC}$
	5 E	$\overline{MTONC}$
+24V	4 D	
	3 C	±0V
	2 B	+5VR
	1 A	

CLRLB	15 S	
DK II	14 R	
	13 P	
	12 N	
CLRRB	11 M	
A=B	10 L	
A<B	9 K	
A>B	8 J	
A_3F	7 H	
P_2	6 F	
A_2F	5 E	
	4 D	A_0F
	3 C	±0V
	2 B	+5VR
	1 A	

	15 S	WT
	14 R	GOS
	13 P	$\overline{Z\,DROP}$
	12 N	WEBL
	11 M	DGISO
	10 L	DIR_0
A_3F	9 K	
	8 J	RFP
	7 H	B_3F
	6 F	B_2F
A_2F	5 E	B_1F
A_1F	4 D	B_0F
	3 C	±0V
	2 B	+5VR
A_0F	1 A	

BLCK	15 S	$\overline{GPRM}$
	14 R	
GISN	13 P	$\overline{BCCL}$
MERD	12 N	
P_{123}	11 M	
$\overline{DL_{13}}$	10 L	
ERROR	9 K	
$\overline{WEBL}$	8 J	
$\overline{RDST}$	7 H	$\overline{HKP_4}$
$\overline{GOSD}$	6 F	
$\overline{WTST}$	5 E	
REBL	4 D	
LPS	3 C	±0V
$\overline{LWTP}$	2 B	+5VR
$\overline{LROP}$	1 A	

BCCL	15 S	REBL
DK II	14 R	CLRRB
	13 P	$\overline{Z\,DROP}$
	12 N	GOS
ZDL	11 M	$\overline{CTDWR}$
DK I	10 L	$\overline{CTUPL}$
A<B	9 K	$\overline{CTDWL}$
ERW	8 J	$\overline{GPRM}$
RD	7 H	CLRLB
RRTB	6 F	$\overline{CTUPR}$
A=B	5 E	REWD
BLCKD	4 D	$\overline{BLCK}$
	3 C	±0V
	2 B	+ 5VR
$\overline{R_5C}$	1 A	$\overline{HKP_4}$

REBL	15 S	RRTB
P_2	14 R	A_2F
	13 P	P_3
P_4	12 N	P_1
GPRM	11 M	$\overline{WTST}$
AGISO	10 L	$\overline{DL_{13}}$
B_1F	9 K	$\overline{P_4}$
P_{123}	8 J	B_0F
A_0F	7 H	B_3F
A_1F	6 F	A_3F
B_2F	5 E	$\overline{P_{123}}$
OPQ	4 D	A=B
	3 C	±0V
	2 B	+5VR
	1 A	$\overline{A=BP}$

A_0F	15 S	DK I II
$\overline{GI_0A_0F}$	14 R	$\overline{GI_0A_1F}$
A_2F	13 P	A_1F
$\overline{GI_0A_2F}$	12 N	$\overline{CRS_1I}$
A_3F	11 M	$\overline{CRS_2I}$
$\overline{GI_0A_3F}$	10 L	B_1F
B_3F	9 K	$\overline{GI_0B_1F}$
$\overline{GI_0B_3F}$	8 J	$\overline{CRS_3I}$
B_0F	7 H	$\overline{CRS_0I}$
$\overline{GI_0B_0F}$	6 F	$\overline{CRS_0II}$
$\overline{GI_0B_2F}$	5 E	$\overline{CRS_3II}$
$\overline{CRS_2II}$	4 D	B_2F
	3 C	±0V
	2 B	+ 5VR
$\overline{CRS_1II}$	1 A	

1st HALF

2nd 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 FL

BRN RED ORN YEL

GRN WHT BLK WHT VIO GRAY VIO BLU BLU/YEL BLU BLK/YEL RED/YEL BRN/YEL

C_1 B_1 E_1 E_2 B_2 C_2

M_1L M_2R M_1L HILS FSL FSR HIRS LTCK LDK DIL_1 RCR_0 RCL_0 DIR_0 DIL_0 DIR_1 RDK RTCK $\overline{LOP}$ $\overline{ROP}$

M_1R $\overline{RSL}$ $\overline{RSR}$

12 0 1 2 3 4 5 6 7 8 9 23 27 26 28 29 30 11 10 24 25 20 22 21 16 150 140

GKB_2 GKA_2 GKA_1 GKB_0 GKB_1 $GISN$ GKA_0 GKA_3 GKB_3 GI_0A_0F GI_0A_1F GI_0A_2F GI_0A_3F $GISO$ I_0B_1 I_0B_2 I_0B_3 GPRM GI_0B_1F GI_0B_2F GI_0B_3F GI_0B_0F

D9

343 L540 L542 L537 L536 L541 L538 L534 L535

6235-R0

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

NO	REVISION	BY	DATE
	ORIG		9-7-72
2	PER ECN 3099 ADDED DIODE ADD: D SCH		10-1-72
3	REVISED PER ECN 3236 ADD: D SCH		1-1-73
5	REVISED PER ECN #3498 ADD: D SCH		8-1-73
6	REVISED WITH ECN #3571 ADD: Z		

WANG LABORATORIES INC.
TEWKSBURY, MASS.

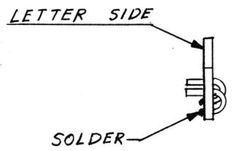
MODEL NO. 709 | DRAWN | CHECKED | APP. | APP.

TITLE: POWER SUPPLY AND MOTHER BOARD

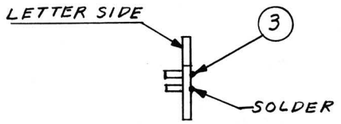
SHT 2 OF 8 | DWG. NO. D 6235-1 | REV.

D 6235-1

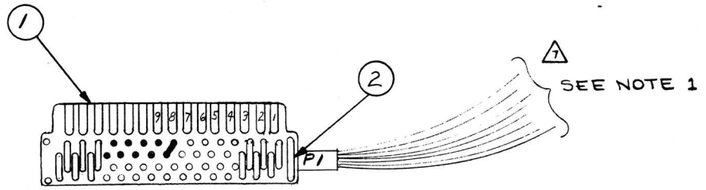
REVISIONS
7 REV. PER RFA 0394 LET 9-17-73



#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	VIO/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,	VIO/GRY	#26	14	600-3078	23"
$\overline{HIRS}$	L542-9,	VIO/BLU	#26	15	600-3076	23"

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:

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

WANG LABORATORIES INC.
TEWKSBURY, MASS.

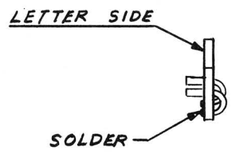
MODEL NO.	DRAWN		APP.	
709/729	CHECKED		APP.	

TITLE: RIGHT TAPE DECK P1

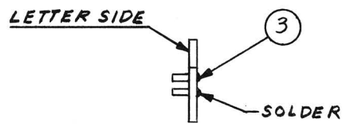
W.O. NO. SHT. 3 OF 8 | DWG. NO. C 6235-1 | REV. 7

DWG. NO. C 6235-1

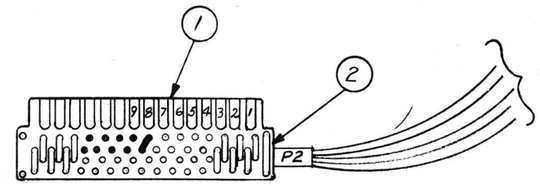
REVISIONS
REVISED: PER E.C. #3088 F.S.S. 7-7-72 APP'D. SKH
REVISED: PER ECN #3122 dtd E-28-72 APP. SKH
7 REV. PER RFA 0394 LET 9-17-73 SKH 10-7-73



#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"
DIL1	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	
M1L	L540-6_2	V10/YEL	#26	P	600-3074	25"
M2L	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 STRIP INSUL ¼" & TIN WIRE BOTH ENDS.

WANG LABORATORIES INC.
TEWKSBURY, MASS.

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

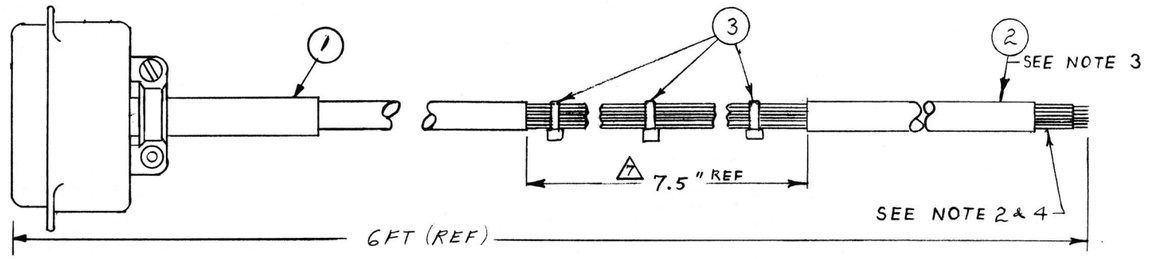
TITLE: LEFT TAPE DECK P2

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

1-6235 C DWG. NO.

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)	605-0102	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	JS	5/24/72	CW	6-7-72
	CHECKED		APP.	

TITLE: I/O CABLE

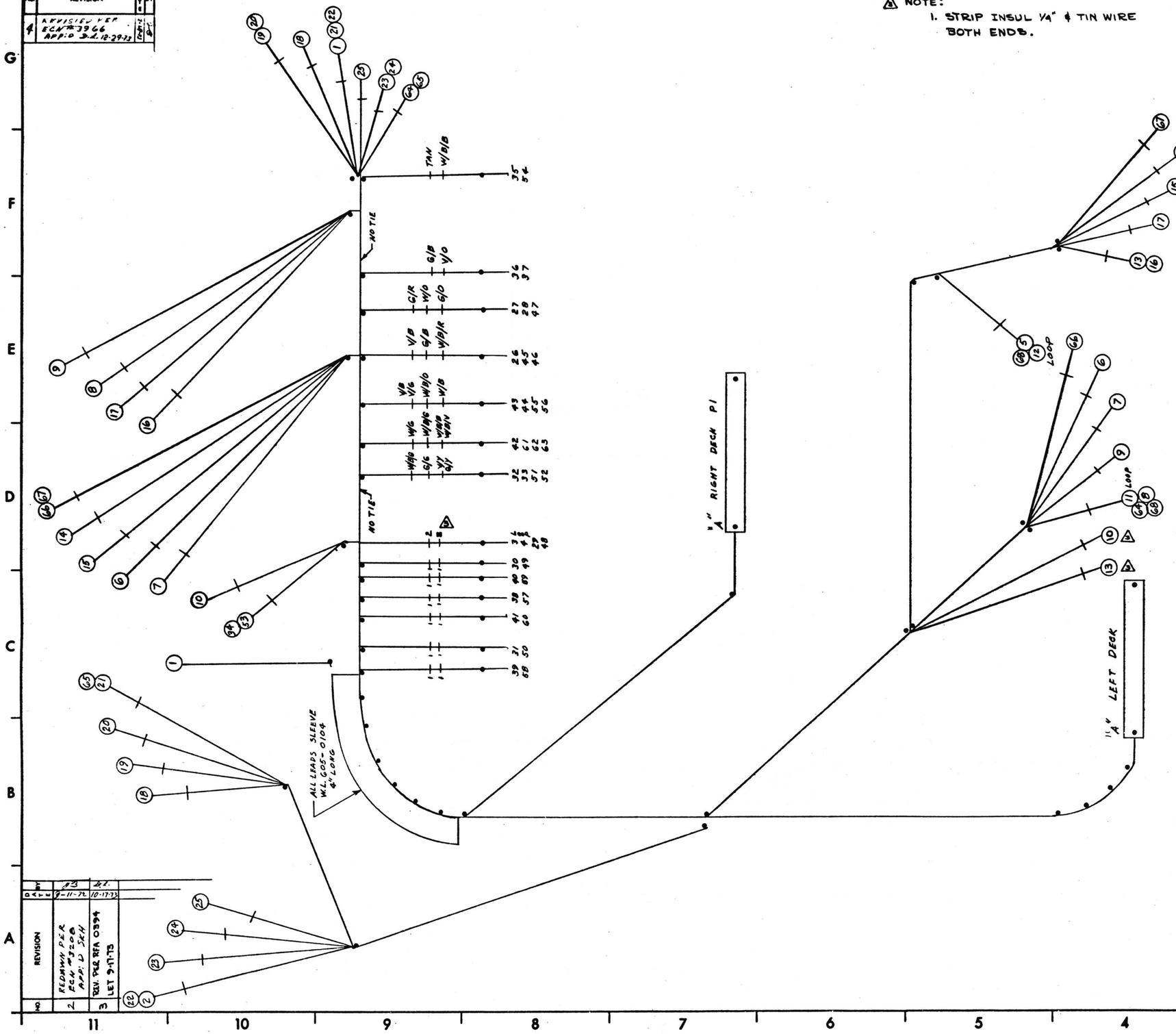
W.O. NO. SHT 5 OF 8 | DWG. NO. C 6235-1 | REV. 8

DWG. NO. C 6235-1

DO NOT SCALE

NO.	REVISION	DATE	BY
4	REVISED PER ECN #3966 APP'D 9.2.12-29-73		

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



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

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

SEE NOTE 1

WIRE GA.	COLOR CODE	WIRE TERM.	LENGTH
#24	GREEN/YELLOW	1	17"
#24	BLACK	2	21"
#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	31"
#26	WHT/RED	20	31"
#26	WHT/BRN	21	31"
#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	635-1004	PAN-TY PLTIM-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	DATE
2	REDRAWN PER ECN #3208 APP: D SKH	#2 9-11-72
3	REV. PER RFA 0394 LET 9-11-73	#3 10-17-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.
709/729	JJ 9-6-72	
	CHECKED	APP. (W) 9-11-72

TITLE
MOTHER BOARD HARNESS
WL. 270-3030

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

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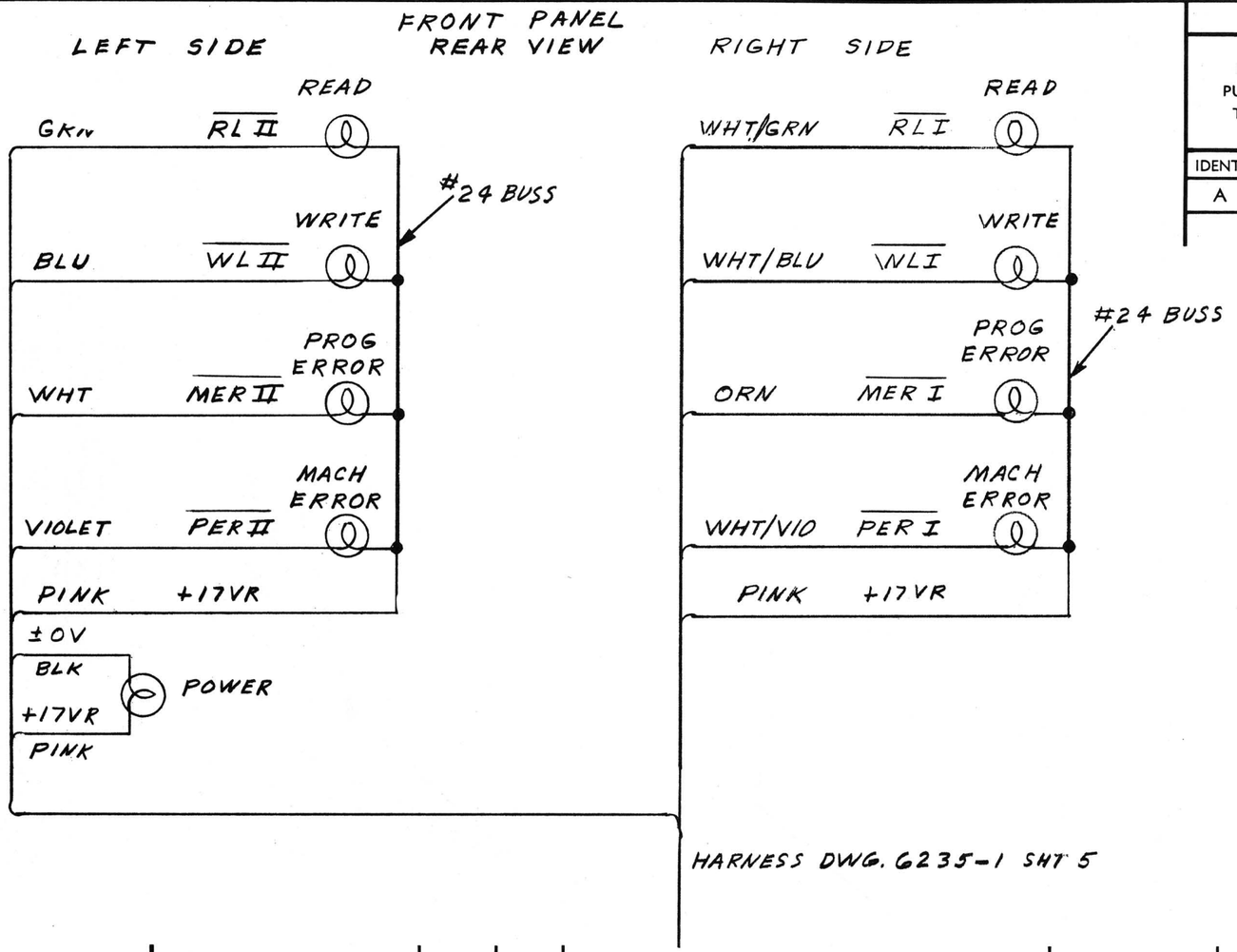
DO NOT SCALE

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 #3208 APP'D SKH	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

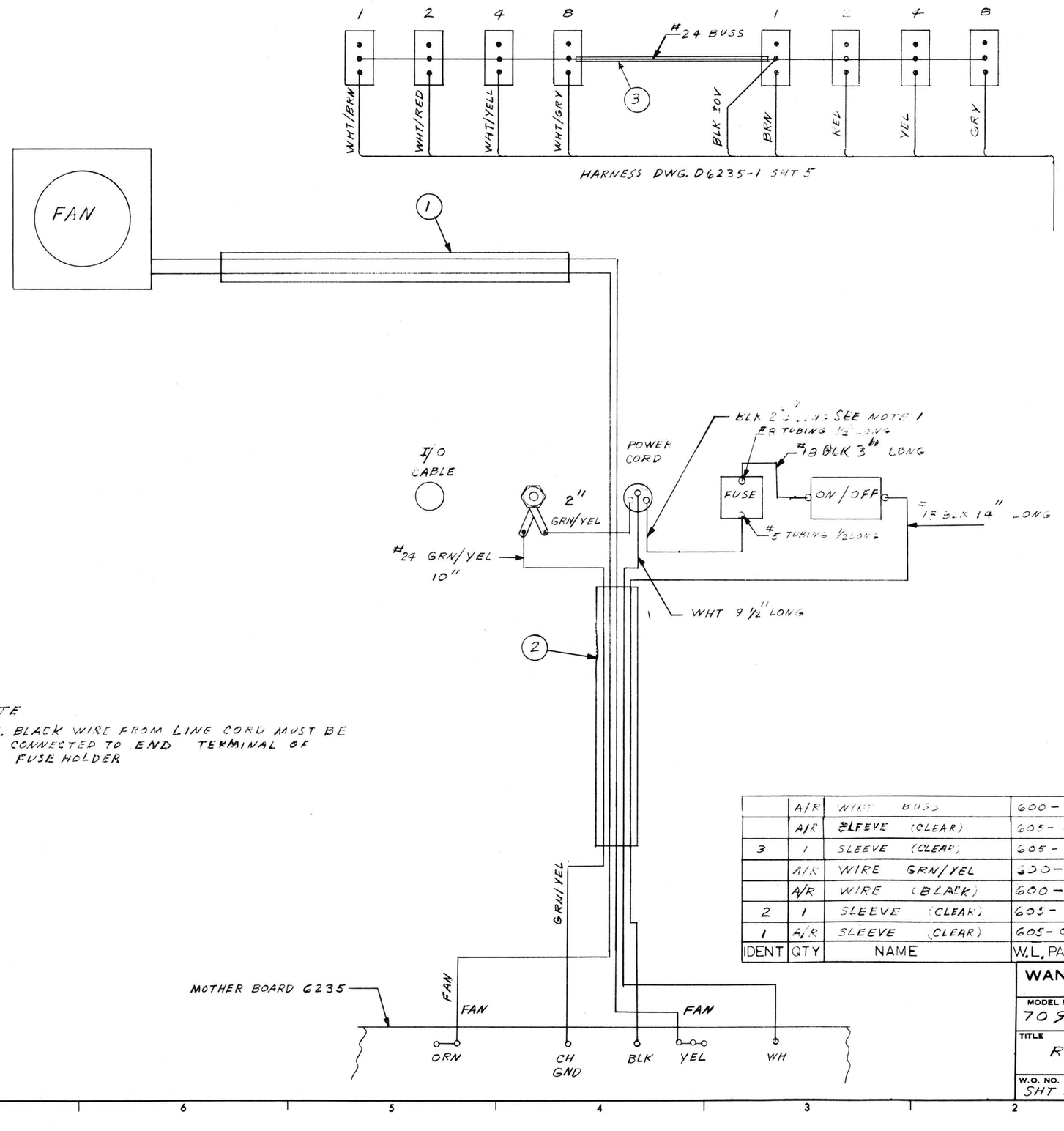
SCALE | SHT 7 OF 8

	BY	DATE	APPROVED BY	DATE
DWN		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

REVISIONS			
1			



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 1¾ 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 5½"-ONG
1	A/R	SLEEVE (CLEAR)	605-0010	#2 TUBING

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.

DO NOT SCALE

DIGIT #0 DIGIT #1 DIGIT #2 DIGIT #3 DIGIT #4 DIGIT #5 DIGIT #6

PRINT SIGN EXECUTE +5VR ±0V

PRT SW 10 SIGN SW 11 EXECUTE SW 12 DATA SW 13 R36 +5VR

SOLDER POINTS

CABLE CONNECTOR

$\overline{GKB_0}$ $\overline{GKB_1}$ $\overline{GKB_2}$ $\overline{GKB_3}$ $\overline{GKA_0}$ $\overline{GKA_1}$ $\overline{GKA_2}$ $\overline{GKA_3}$ $\overline{GISN}$ $\overline{PRMS}$

$\overline{I_0B_3}$ $\overline{GI_0B_0}$ $\overline{GI_0B_1}$ $\overline{GI_0B_2}$ $\overline{GI_0B_3}$ $\overline{GI_0A_0}$ $\overline{GI_0A_1}$ $\overline{GI_0A_2}$ $\overline{GI_0A_3}$ $\overline{I_0B_1}$ $\overline{GISO}$ $\overline{GKBD}$

COMPONENT LAYOUT

6243

C1 T1 Q1 SW8 SW4 SW2 SW1 SW13 SW12 SW10 SW11

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

P1 19 36

P1

DIGIT #1 DIGIT #0 DIGIT #3 DIGIT #2 DIGIT #5 DIGIT #4 EXECUTE ±0V DIGIT #6 +5VR R40 CHASSIS GND SIGN PRINT

COMP. SIDE WIRING SIDE

CABLE CONN.

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 I_0B_3 GISO GKBD ±0V CHASSIS GND

GKA0 GKA1 GKA2 GKA3 GKB0 GKB1 GKB2 GKB3 GISN PRMS

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	SN7442N	376-0008	16	8	1
L16 THRU 22	SN7401N	376-0015	14	7	7

COMPONENT	SIZE/TYPE	W.L.PART NO.	QTY.
Q1	40250VI	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	.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 D8	SIL. DIODE	380-1001	8
D9	GER. DIODE	380-0000	1
D10,11	EM403	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

POWER F1 INPUT 115VAC 60Hz BLK GRN WHT 115V 230AC 115V T1 D10 D11 Q1 R39 R38 C5 C6 D12 C7 C8 C9 C10 C11 C12 C13 C14 +5VR ±0V

DATE	BY	REVISION	NO

WANG LABORATORIES INC.
TEWKSBURY, MASS.

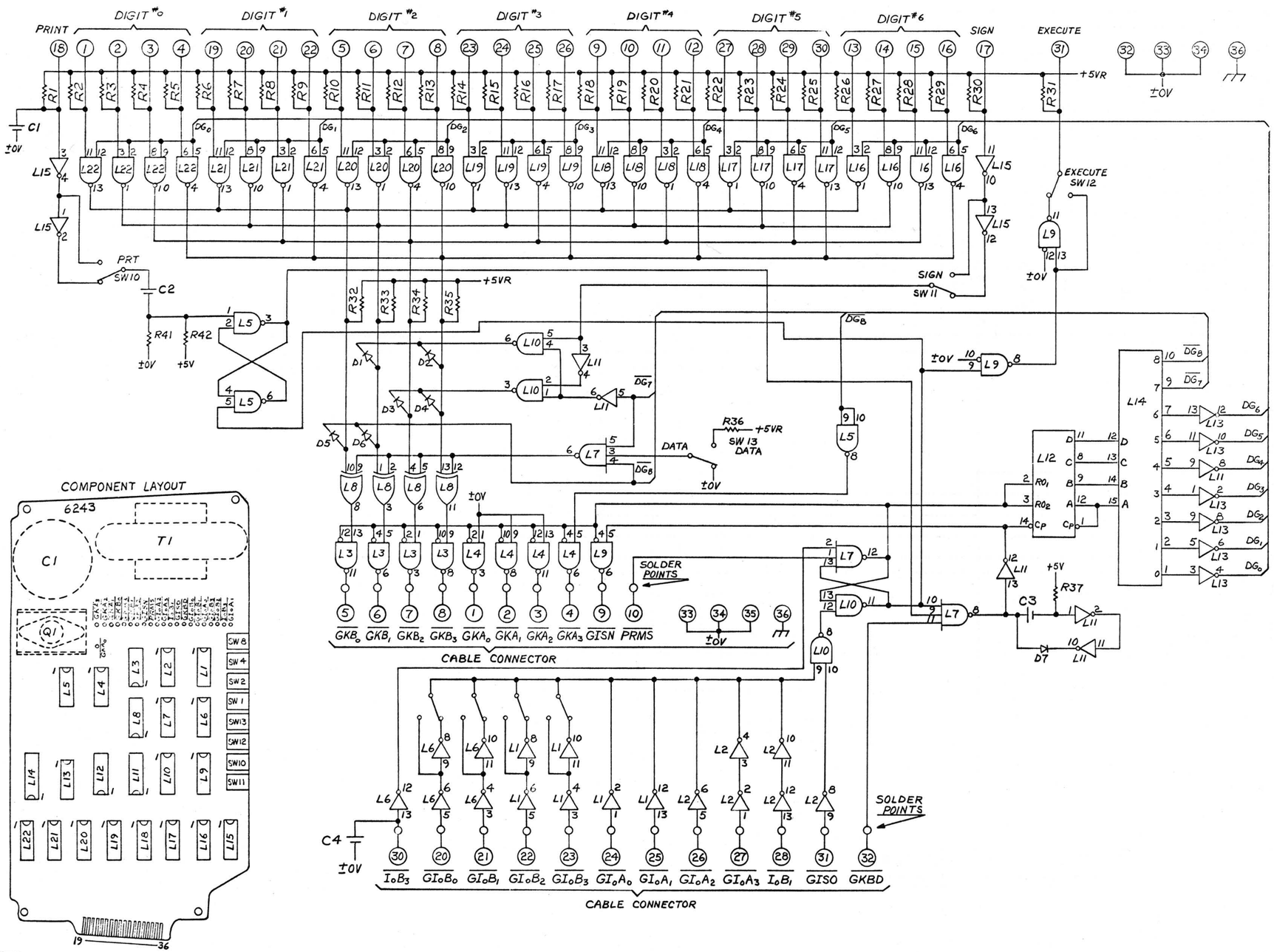
MODEL NO.	DRAWN	DATE	APP.
705-1A	CHECKED		APP.

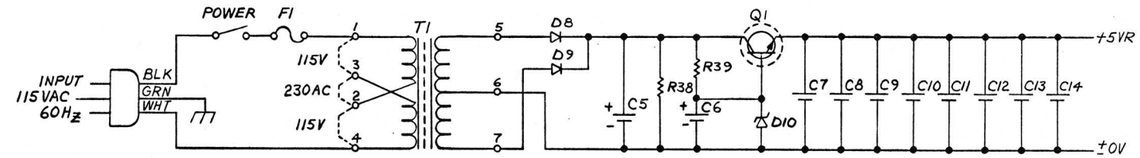
TITLE: SCHEMATIC LOGIBLOC #6243 INTERFACE

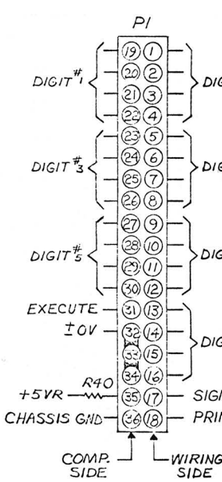
SHT OF | DWG. NO. D 6243-1 | REV.

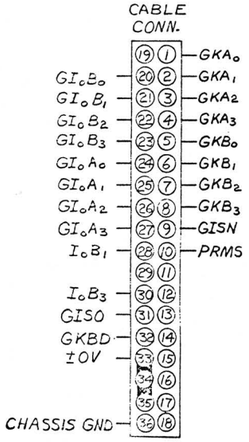
D 6241-1

DO NOT SCALE









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	40250 V1	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	.054f	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	360-0002	2
	RIVET	651-0601	2
	.06.25ASB.250MX	360-0900	1
SW1,2,4,8,10,11,12,13	SPDT	325-2105	8

REVISION	BY	DATE
NO		

WANG LABORATORIES INC.
TEWKSBURY, MASS.

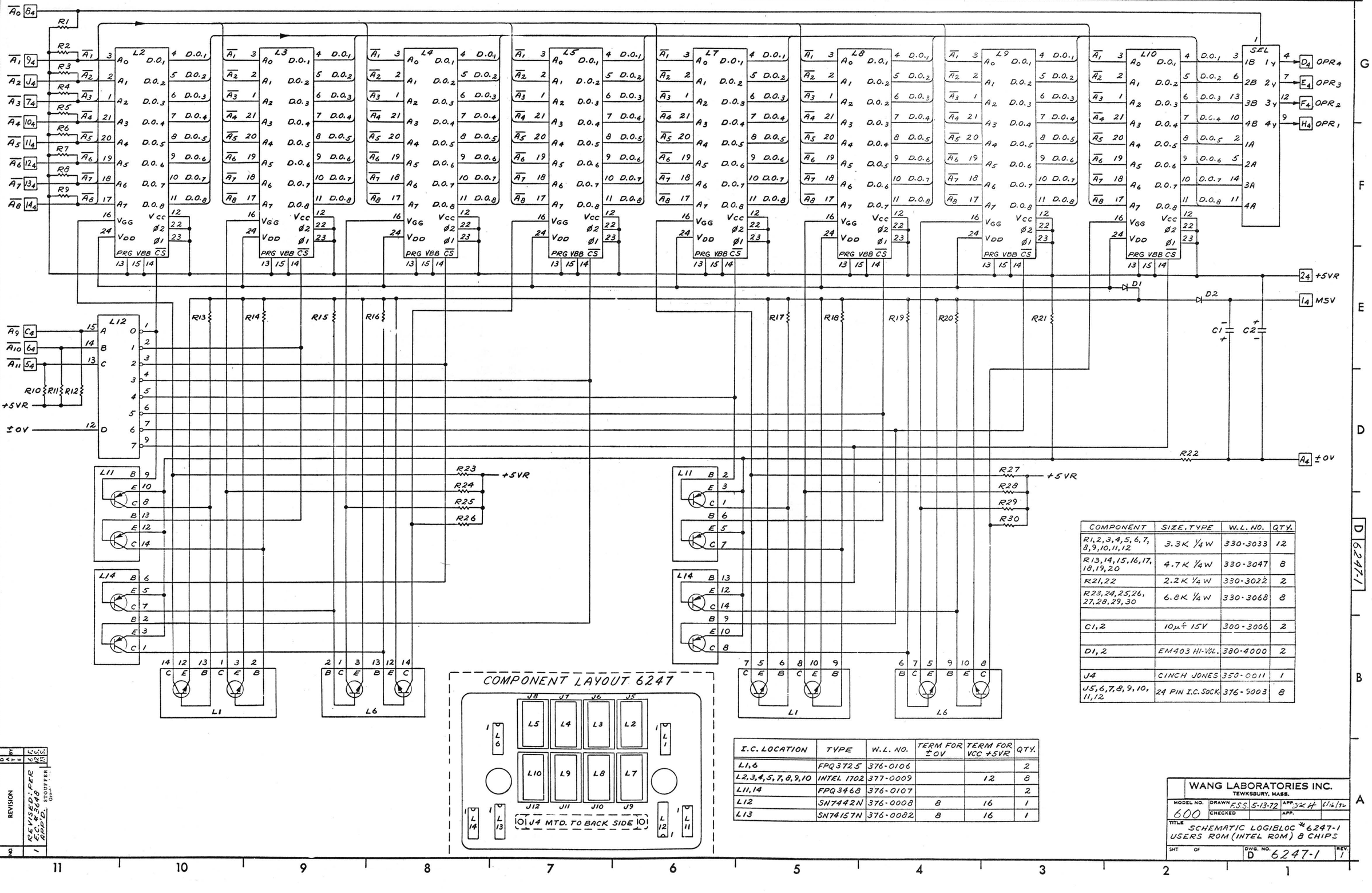
MODEL NO.	DRAWN	APP.	
605-1A	CK 4/27/72	SKH 11/2/72	
	CHECKED	APP.	

TITLE: SCHEMATIC, LOGIBLOC, INTERFACE #6243

SHT 1 OF 1 | DWG. NO. D 6243-2 | REV.

D 6243-2

DO NOT SCALE



COMPONENT LAYOUT 6247

COMPONENT	SIZE. TYPE	W.L. NO.	QTY.
R1,2,3,4,5,6,7,8,9,10,11,12	3.3K ¼W	330-3033	12
R13,14,15,16,17,18,19,20	4.7K ¼W	330-3047	8
R21,22	2.2K ¼W	330-3022	2
R23,24,25,26,27,28,29,30	6.8K ¼W	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

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	BY	DATE
1	REVISED PER ECO 6440 ADD'D OUTPUT FER Gate	V.C.	7/5/72

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
600	F.S.S.	5-13-72	S.W.H.	7/16/72
	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

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HOLE LEGEND

	HOLE DIA.	TYP.
DRILLED OR PUNCHED HOLE TOLERANCES	.0135 to .125	± .003
	.126 to .250	± .005
	.251 to .500	± .008

IDENT.	DESCRIPTION	QTY.
A		

COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY
R1	3.3K ¼W	330-3033	1
R2	2.2K ¼W	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. ±0V	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	SN74151N	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	SN7414N	376-0010	7	14	1

CONN. 1

SEARCH	A1
+5VR	B2
±0V	C3
	D4
MOVE	E5
BS	F6
	H7
BS	J8
	K9
HALF	L10
	M11
STCT	N12
	P13
	R14
	S15

CONN. 2

	A1
	B2
	C3
	D4
VFRQ	E5
XPUS	F6
YPUS	H7
	J8
XINC	K9
	L10
RGMX2	M11
	N12
ROMX1	P13
	R14
ROMX3	S15

CONN. 3

LORSP	A1
SSP	B2
FNSH	C3
YINC	D4
	E5
ROMY1	F6
	H7
ROMY2	J8
	K9
ROMY3	L10
PRINA	M11
COUNT	N12
	P13
+5VR	R14
±0V	S15
	T16

COMP. SIDE — WIRING SIDE

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

COMPONENT LAYOUT

6248

L16 L13 L12 L11 L10 L9 L8 L7 L6 L5 L4 L3 L2 L1

L28 L27 L26 L25 L24 L23 L22 L21 L20 L19 L18 L17 L16 L15

L45 L44 L43 L42 L41 L40 L39 L38 L37 L36 L35 L34 L33 L32

SRQNMLKJHFEDCBA 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

SRQNMLKJHFEDCBA 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

SRQNMLKJHFEDCBA 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

C14 C15 C16 C17 C18 C19 C20 C21 C22 — +5VR — ±0V

REVISION			
A	0	4-1-74	

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. 612712

SEE ENGRG SPECIFICATIONS No.

FINISH

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

SCALE — SHT. OF

TITLE SCHEMATIC LOGIC DC 6248 4X AND 4Y CIRCUIT

WANG PART NUMBER 6248-1 — SIZE E — DRAWING NUMBER — REV. A

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DO NOT SCALE

HOLE LEGEND

	HOLE DIA.	TOL.
DRILLED OR PUNCHED HOLE TOLERANCES:	.0135 to .125	± .002
	.126 to .750	± .004
	.751 to .500	± .005

IDENT.	DESCRIPTION	QTY.
A		

LOCATION	TYPE	W.L. PART NO.	TERM. NO. +5V	TERM. NO. 0V	QTY.
L1,10	9930	376-0023	14	7	2
L2	EA4038-4	377-0021			1
L3	EA4097-1	377-0022			1
L4,5,11	SN7406N	376-0055	14	7	3
L35	SN7420N	376-0004	14	7	1
L12,19,23,33,36	SN7402N	376-0016	14	7	6
L6	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	9383	376-0033	14	7	3
L34	9346	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	330-4033	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	6.2 μF	300-4028	2
C4	680PF	300-1680	1
C5	47μF,15V	300-4022	1
C6	1μF	300-4000	1
C7	5.6 μF	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	.05 μF	300-1900	7
C23,24	15μF,20V	300-4022	2
D1,2,7,8,10	SILICON	380-1001	5
D3,4	EM-405	380-4000	2
D5	5.1V ZENER	380-2051	1
D6,9	GERMANIUM	380-0000	2

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

COMM1: (A) -15V (B) +5V (C) 0V (D) TKA0 (E) PENC (F) PSW (H) TKB2O (J) ROMX3 (K) TKB1O (L) STOP (M) TKB0 (N) TKB1 (P) TKB2 (R) TKA1 (S) ROMY3 (T) ROMY2

COMM2: (A) SSP (B) SSZ (C) TYPE (D) (E) (F) (H) YINC (J) CKSL (K) SETZ (L) PRST (M) TKWSD (N) PRIN (P) SETZ (R) CHECK (S) LOSP

COMM3: (A) RBS (B) TKWS (C) XSVD2 (D) LOSP (E) SVAC2 (F) INH (H) UY (J) DY (K) XINC (L) DX (M) SVAC1 (N) MOVE (P) 0V (R) +5V (S) XSVD1

COMM1: -15V, +5V, 0V, TKA0, PENC, PSW, TKB2O, ROMX3, TKB1O, STOP
COMM2: SPZ, PRC, COUNT, PRINA
COMM3: RSAF, LORSP, CLAR, YPUS, XPUS, CPRN, BSD, UX, YSVD2, YSVD1, SVURV

WIRING SIDE
COMPONENT SIDE

COMPONENT LAYOUT 6249

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
DWG. NO. / FIRST USED ON	ASSY USED ON		WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.		
			MATERIAL	MODEL NO 612/712	BY / DATE / APPROVED BY / DATE
				SEE ENGRG SPECIFICATIONS No.	DWN EK / ENGR
					CHK / M ENGR
			FINISH		E C CONTROL / MFG ENGR
				TOL EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH 125	TITLE SCHEMATIC LOGIBLOC #6249 CONTROL CARD
				SCALE / SHT OF	E / 6249-1 / 1
					WANG PART NUMBER / SIZE / DRAWING NUMBER / REV.

REVISION	DATE	BY
REVISED PER ECN 3214 APPD: [illegible]	12 MAY	

E 6249-1

DO NOT SCALE

COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY
Q1	ST32031	375-1020	1
Q2,Q3	NIXIE DRIVER	375-1056	2
Q4	35224	375-1001	1
Q5	40250	375-1028	1
Q6	2N6105(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
R6,[illegible]	10K, 1/2W	321-4010	3
R8	68Ω 1/4W	330-[illegible]	1
R9	680Ω 1/4W	330-3068	1
R12	1.8K 1/4W	330-3018	1
R17	2.2K 1/2W	331-6022	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
R[illegible]	10K 1/4W	330-4010	6
C1	.01μF 25V	300-1903	1
C2,17-22	.05μF 12V	300-1900	7
C3,4,[illegible]	.001μF 200V	300-1906	3
C[illegible]	100PF	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
C[illegible]	10μF 16V	300-3006	2

LOCATION	TYPE	W.L. PART NO.	TERM. NO. +5V	TERM. NO. -5V	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	380-2426	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

CONN.1

+5V	A1	
	B2	
±0V	C3	
	D4	
BASE	E5	
	F6	20VAC
	G7	5V UNREG
	J8	-15VUR
	K9	15VAC2
	L10	15VAC1
	M11	+15VUR
	N12	+10VR
-15VR	P13	+15VR
	R14	
	S15	

CONN.2

VFRQ	A1	
	B2	SPZ
INH	C3	COUNT
CLAR	D4	FNSH
CPRN	E5	LOSP
BSD	F6	STCT
PRINA	G7	SEARCH
PRINA	H8	STOP
	J9	RSAF
	K10	PRC
	L11	PRIN
	M12	BS
	N13	HALF
BS	P14	
	R15	

CONN.3

	A1	
	B2	
CKSL	C3	
YGND	D4	
	E5	
	F6	YAV
	H7	PRST
	J8	XAV
	K9	UY
	L10	DY
	M11	XGND
UX	N12	
	P13	ICV
	R14	+5V
DX	S15	

COMP. SIDE — WIRING SIDE

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

COMPONENT LAYOUT 6250

WANG 6250

NO	REVISION	DATE	APP'D
1	C4 WAS .01μF CHANGED TO .001μF PER ECN 3276 ARTIC. 3KMD	10/6/72	
2	ADD RESISTOR FROM PIN 7 TO +5V CHANGED C15 FROM .05μF TO .001μF ARTIC. 3KMD	11/1/72	

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 612/712 | DRAWN BK 10/6/72 | CHECKED | APP. | APP. | 11/1/72

TITLE: SCHEMATIC LOGIBLOC #6250 REGULATOR & D/A

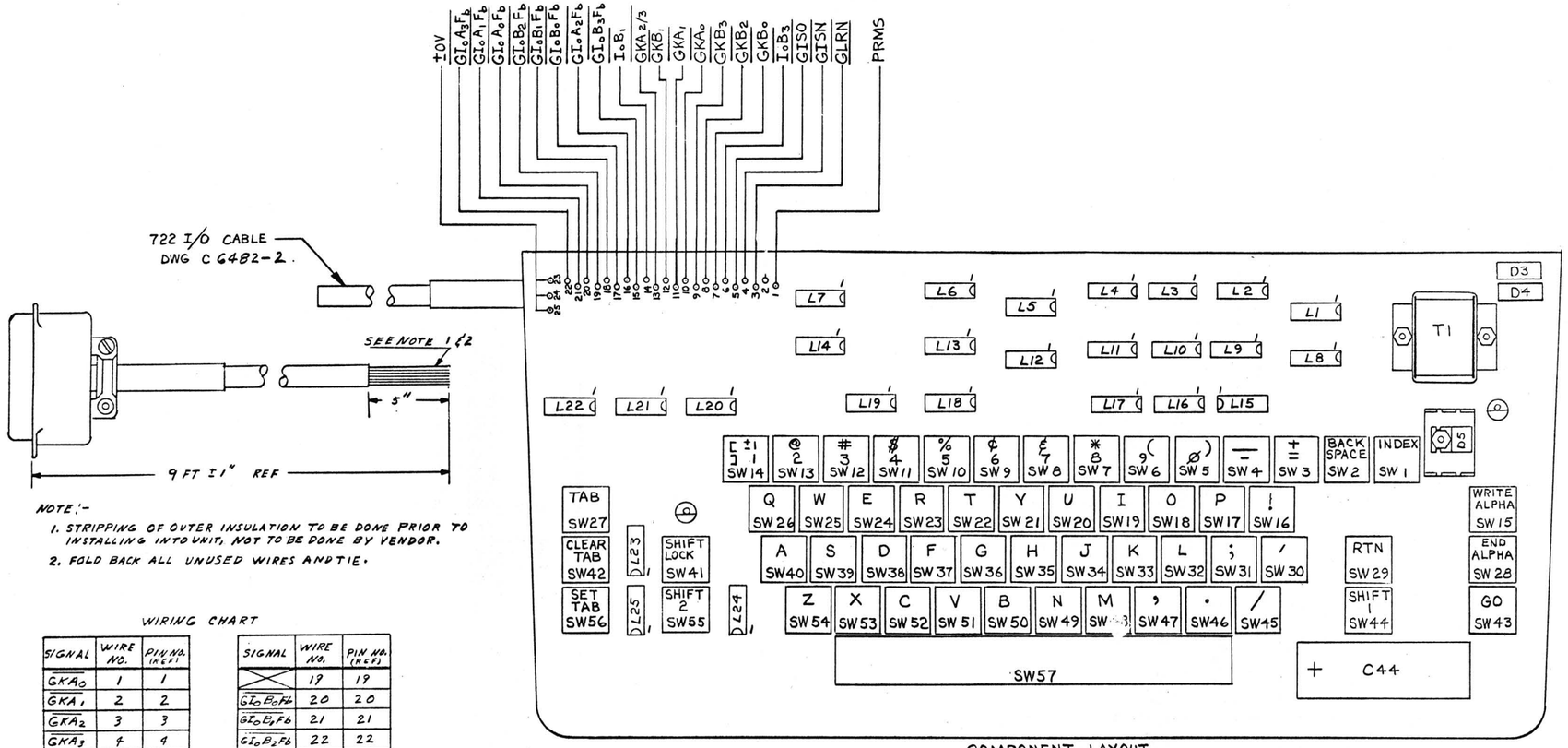
SHT 1 OF 1 | DWG. NO. D 6250-1 | REV. 3

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.	10/10/72
	CHECKED	APP.	
TITLE SCHEMATIC LOGIBLOC 6251 722 ALPHANUMERIC KEYBOARD			
SHT 1 OF 2	DWG. NO. D 6251-1	REV. 4	

REVISION	NO

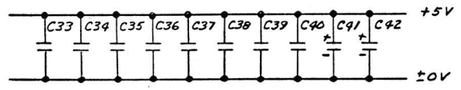


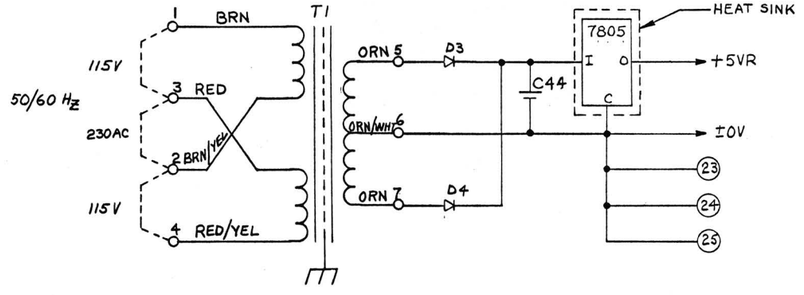
COMPONENT LAYOUT

WIRING CHART

SIGNAL	WIRE NO.	PIN NO. (REF)
$\overline{GKA_0}$	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
$\overline{PRMS}$	10	10
$\overline{GLRN}$	11	11
X	12	12
X	13	13
X	14	14
X	15	15
X	16	16
X	17	17
X	18	18

SIGNAL	WIRE NO.	PIN NO. (REF)
X	19	19
$\overline{GI_0B_0F_b}$	20	20
$\overline{GI_0B_1F_b}$	21	21
$\overline{GI_0B_2F_b}$	22	22
$\overline{GI_0B_3F_b}$	23	23
$\overline{GI_0A_0F_b}$	24	24
$\overline{GI_0A_1F_b}$	25	25
$\overline{GI_0A_2F_b}$	26	26
$\overline{GI_0A_3F_b}$	27	27
$\overline{IOB_1}$	28	28
X	29	29
$\overline{IOB_3}$	30	30
$\overline{GISO}$	31	31
$\overline{GKBD}$	32	32
±0V	33	33
+0V	34	34
+0V	35	35
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	SN7415IN	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, 54THRU 66, 69,70,72,74	1K 1/4W	330-3010	20
C1THRU12,17,20 THRU27,33-38	.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
C28THRU32	.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 APPD: Jette	BK	10-11-72
2	REVISED PER ECH-3641 APPD: (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	DATE	APP.
722	BK	9-25-72	10/10/72
	CHECKED		APP.

TITLE: SCHEMATIC LOGIBLOC 6251
722 ALPHANUMERIC KEYBOARD

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

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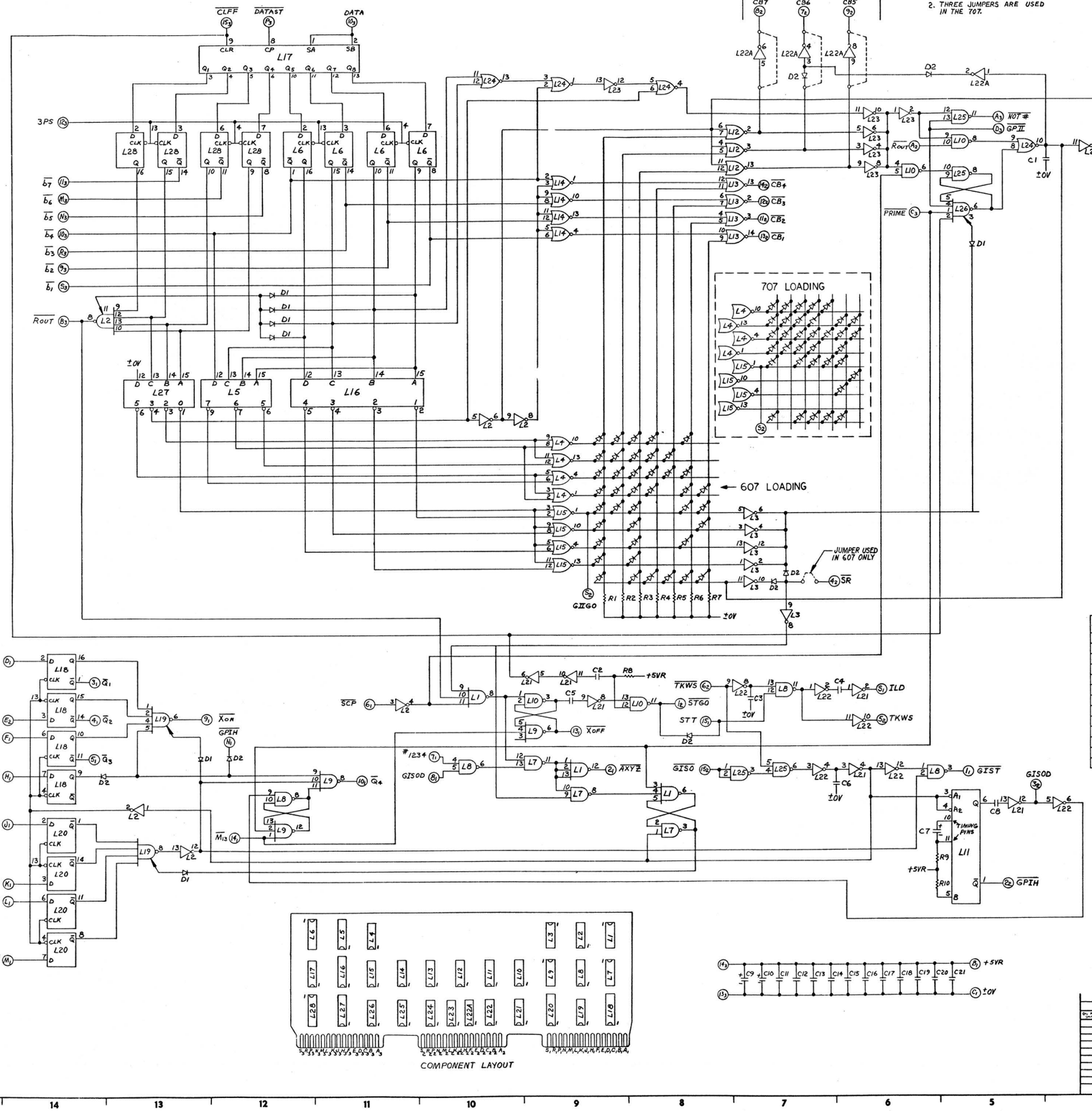
DO NOT SCALE

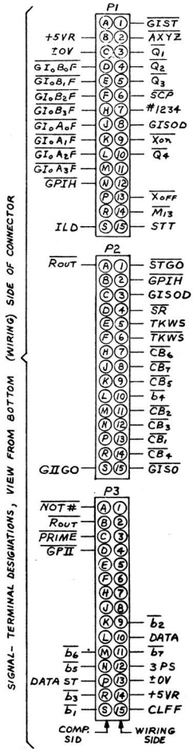
HOLE LEGEND		
	HOLE DIA.	TOL
DRILLED OR PUNCHED HOLE TOLERANCES:	.0135 to .125	+.003 -.002
	.126 to .250	+.004 -.003
	.251 to .500	+.005 -.003

IDENT.	DESCRIPTION	QTY.
A		

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



COMPONENT LAYOUT



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

REVISION	BY	DATE

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
Dr. No. / Dwg.	FIRST USED ON	ASSY USED ON			

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

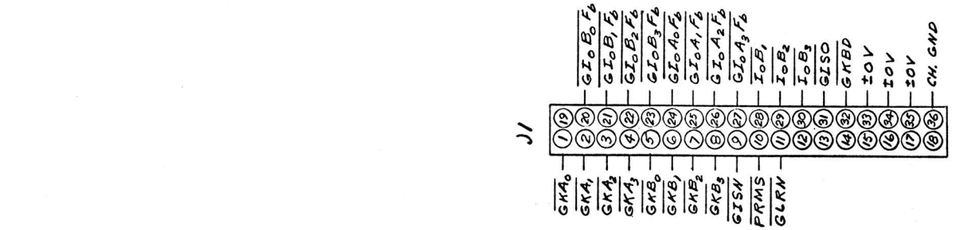
MATERIAL — MODEL NO. 607/707 — SEE ENGRG SPECIFICATIONS No.

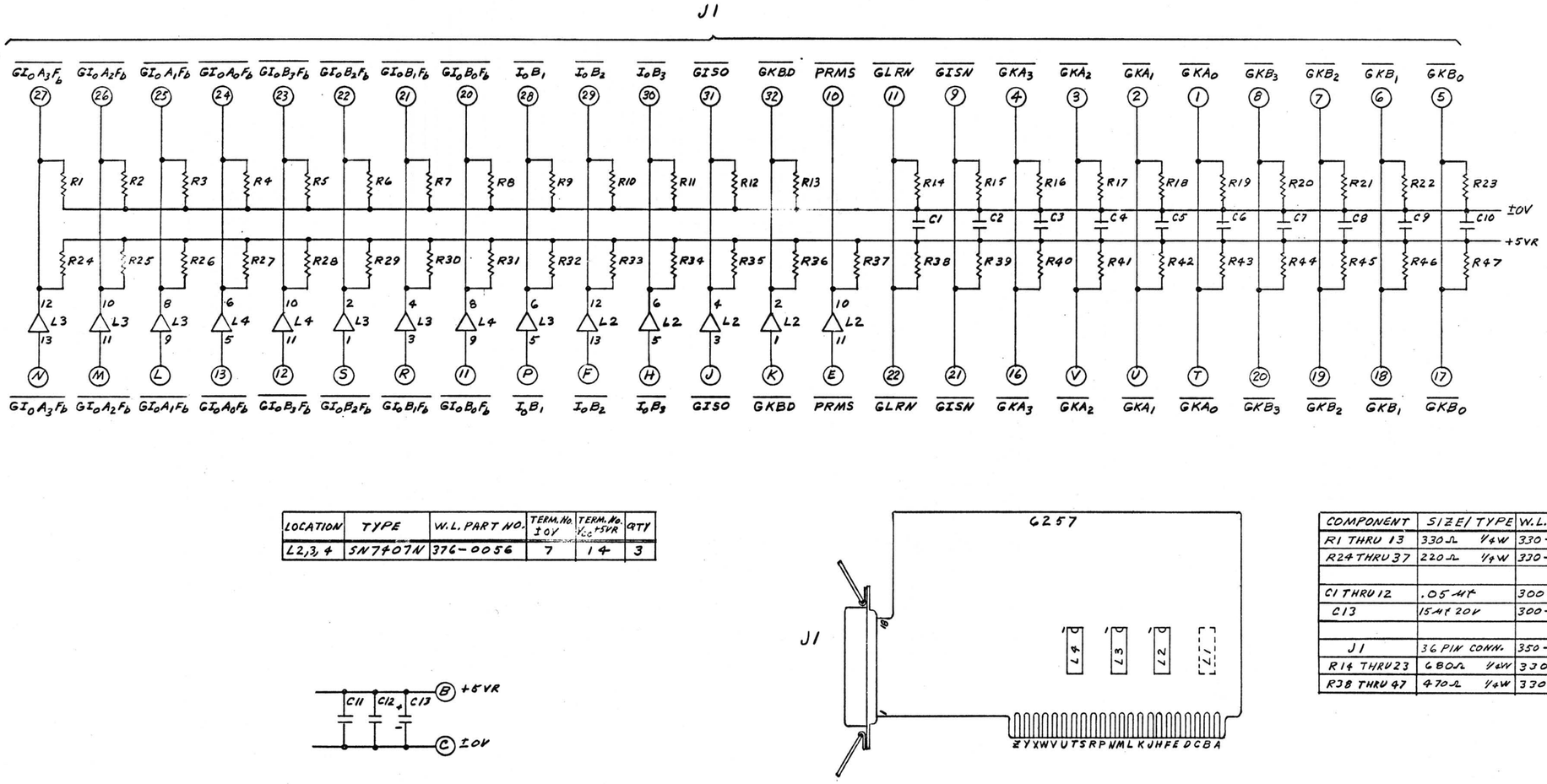
FINISH — TOL EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH 125 — SCALE — SHT OF

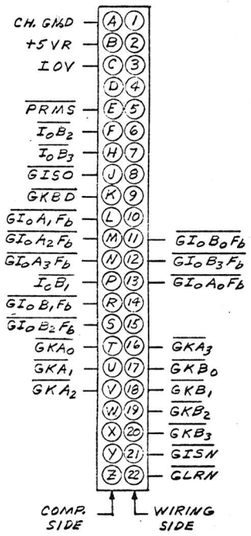
BY	DATE	APPROVED BY	DATE
DWN GK	11-30-71	E ENGR : EAW	12/1/71
CHK		M ENGR	
E C CONTROL		MFG ENGR	

TITLE SCHEMATIC, LOGIBLOC 607/707 TO TELETYPE INTERFACE

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







LOCATION	TYPE	W.L. PART NO.	TERM. NO. I0V	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 MF	300-1900	12
C13	15 MF 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	BY	DATE
1	REVISED PER ECN #3525 ADD D SIZE	RB	7-23-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	DATE	APP.	DATE
6237/723	RP	10/18/72	M.V.	12/1/72
	CHECKED		APP.	

TITLE: SCHEMATIC LOGIBLOC #6257 I/O BUFFER CARD

SHT OF | DWG. NO. D 6257-1 | REV. 1

D 6257-1

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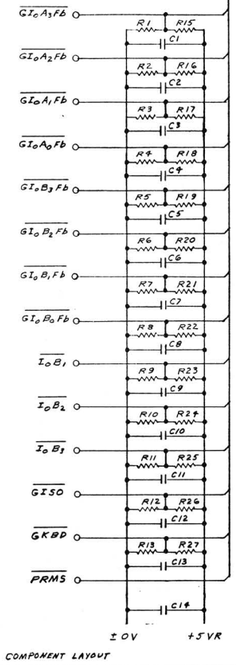
DO NOT SCALE

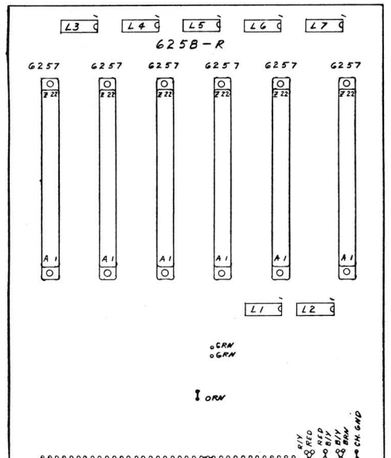
HOLE LEGEND

DRILLED OR PUNCHED HOLE TOLERANCES:	HOLE DIA.	TOL.
	.0135 to .125	± .002
	.126 to .250	± .004
	.251 to .500	± .005

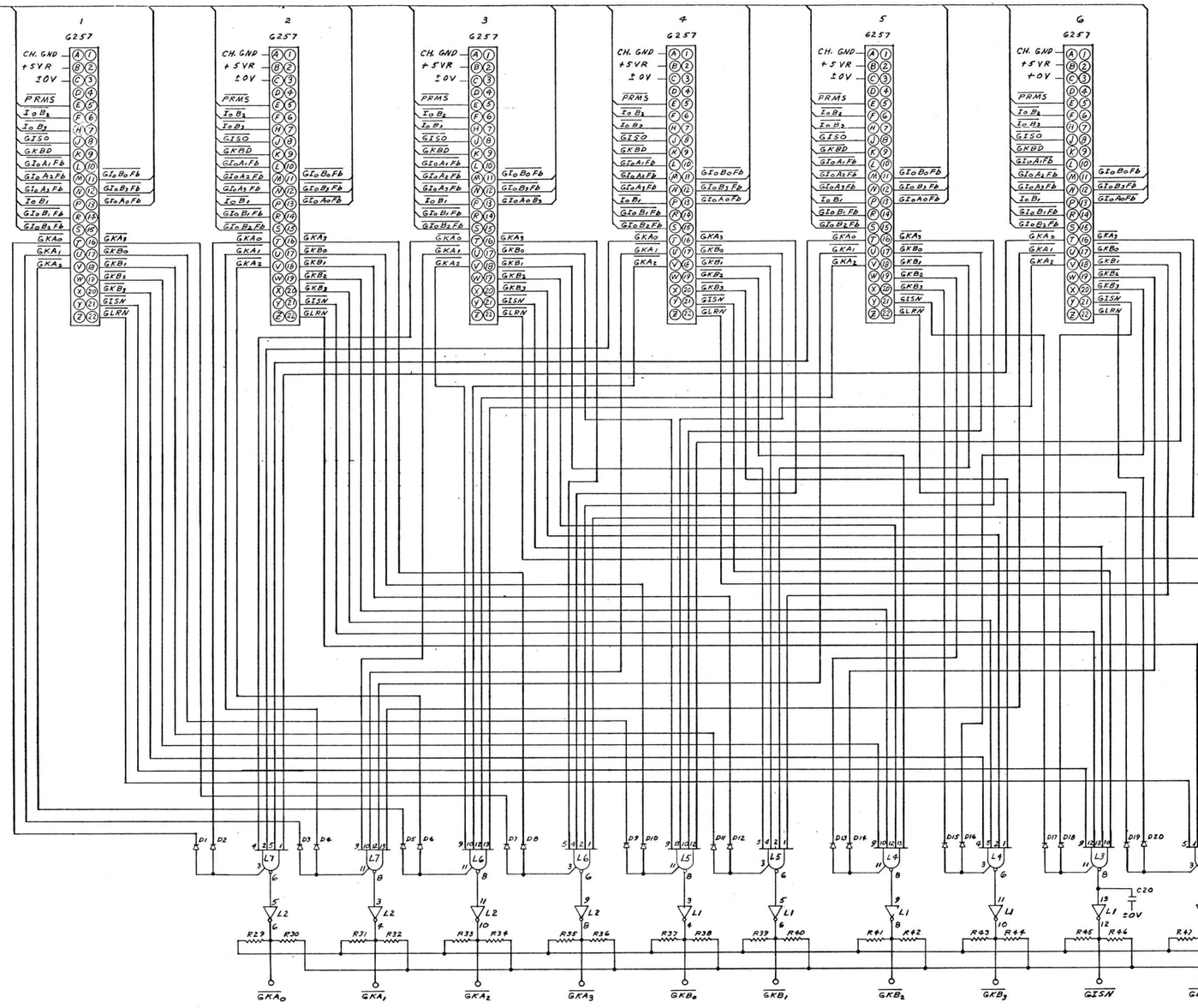
IDENT	DESCRIPTION	QTY.
A		

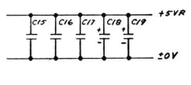


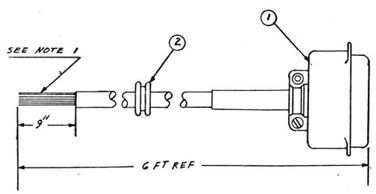
COMPONENT LAYOUT



I/O CABLE







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, R29,30,31,32,33,34,35,36, 39,40,41,42,43,44,45,46, 47,48, 30	680Ω ¼W	330-2068	13
	330Ω ¼W	330-2033	10
R15,16,17,18,19,20, 21,22,23,24,25,26,27, R29,31,33,35,37, 39,41,43,45,47	470Ω ¼W	330-2047	13
	220Ω ¼W	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	15-4/20V TANT	300-4022	2
C20	.02-4T 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	GI₀B₀Fb
21	21	GI₀B₁Fb
22	22	GI₀B₂Fb
23	23	GI₀B₃Fb
24	24	GI₀A₀Fb
25	25	GI₀A₁Fb
26	26	GI₀A₂Fb
27	27	GI₀A₃Fb
28	28	I₀B₁
29	29	I₀B₂
30	30	I₀B₃
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. V_{CC} +5VR	QTY
L1,2	SN7404GN	376-0055	7	14	2
L3,4,5&6,7	9932	376-0046	7	14	5

REVISION	BY	DATE	APPD
0 RELEASED		2-11-73	
1 SPECIFICATION #3218 PRINTED FIGURE APP'D PTHO		2-24-73	
2 REVISED PER ECN #3233 PRINTED FIGURE APP'D		5-1-73	
3 REVISED PER ECN #3371 APP'D			

WANG PART NO	ITEM	QTY	NAME	MATERIAL DESCRIPTION
654-1222	2	1	GROMMET	½ ID - ⅜ DIA. HOLE
220-2636-6	1	1	CABLE ASSEMBLY TYPE 2	SEE WG. 6252-2

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

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

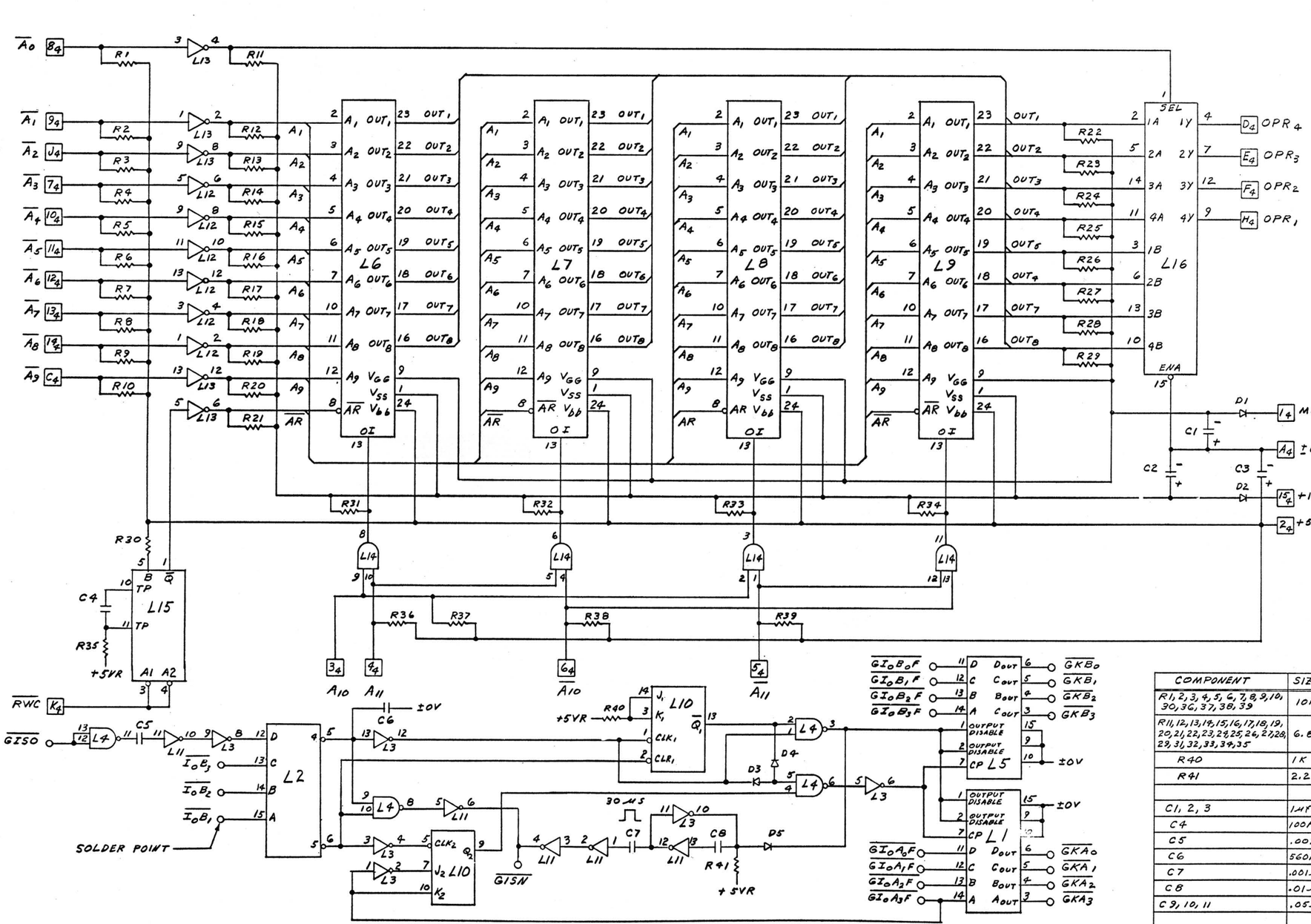
MATERIAL — MODEL NO. 623/723 — SEE ENGRG SPECIFICATIONS No.

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

TITLE SCHEMATIC LOGIBLOC 6258 I/O BUFFER MOTHER BOARD

SCALE — SHT 1 OF 1 — WANG PART NUMBER — SIZE E — 6258-1 — DRAWING NUMBER — REV 3

E 1-8229



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
$\overline{A_9}$	C 3	A_{10}
OPR_4	D 4	A_{11}
OPR_3	E 5	$\overline{A_{11}}$
OPR_2	F 6	$\overline{A_{10}}$
OPR_1	H 7	$\overline{A_3}$
$\overline{A_2}$	J 8	$\overline{A_0}$
RWC	K 9	$\overline{A_1}$
	L 10	$\overline{A_4}$
	M 11	$\overline{A_5}$
	N 12	$\overline{A_6}$
	P 13	$\overline{A_7}$
	R 14	$\overline{A_8}$
	S 15	+12V

NO.	REVISION	BY	DATE
1	PER ECN # 3715 ADDED SHT 2 APP'D	JP	8-2-77

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.	
600	CHECKED	APP.	

11-10-72 — 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

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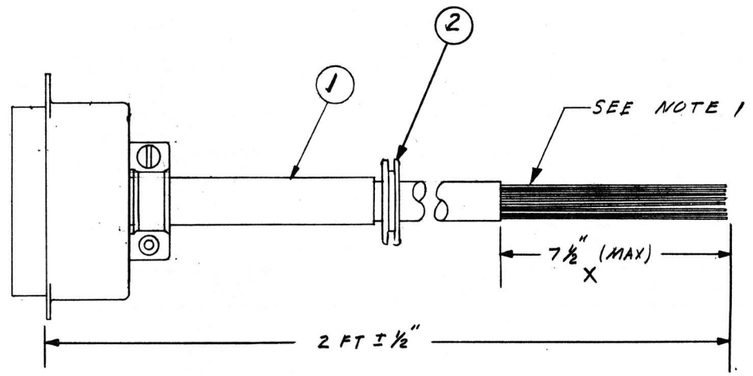
DO NOT SCALE

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		

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 ACDL	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 √

TITLE PRINTER CABLE

SCALE NONE SHT 2 OF 2

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

NO.	REVISION	DATE	BY

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
L19, 26	MC 846P	376-0023	14	7	2
L3	1800P	376-0062	14	7	1
L4, 5, 13, 14, 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 THRU 12, 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	.01 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	APP'D
1	PER ECN 32 69 ADDED D23 DIODE APP:D SCHO	DB	10-2-72	
2	PER ECN 3295 L17 WAS 9936 APP:D SCHO	DB	10-11-72	
3	PER ECN 3396 ADDED D24 + MW CIRCUIT APP:D SCHO	DB	11-21-72	
4	PER ECN #3436 L2, 11 WAS 846 ADDED R36, 37 APP:D SCH	DB	12-18-72	
5	REVISED PER RFA # 0347 APP:D	DB	8-23-73	

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 (N.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_5 (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
TO L518-B_2	J 8	INPUT / OUTPUT
TO L518-9,	K 9	FROM L518-7_2
KA_2	L 10	S. TAB (M.C.)
C5-10	M 11	OUTPUT / INPUT
±0V	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.	DATE
711		7/16/72			1/6/72

TITLE: SCHEMATIC LOGIBLOC DECODING SECTION

6272

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

DO NOT SCALE

(N.O.) PCC (4₂) · (N.O.) ST₂ (2₂) · (N.O.) ST₁ (M₁) · (N.O.) SR₅ (D₂) · (N.O.) SR₂A (P₁) · (N.O.) SR₂ (M₁) · (N.O.) SR₁ (E₂) · (N.O.) SP (G₂) · (N.O.) BK.SP. (K₁) · (N.O.) RTN (B₁) · (N.O.) IDX (C₂) · (N.C.) TAB (15₂) · (N.O.) TAB (S₁) · (C) TAB (15₁) · (N.C.) S.TAB (10₂) · (N.O.) S.TAB (A₂) · (C) S.TAB (12) · (N.C.) C.TAB (D₁) · (N.O.) C.TAB (L₁) · (C) C.TAB (10₁) · (N.O.) WT∝ (4₁) · (N.O.) END∝ (9₁) · (N.O.) GO (5₂) · (N.O.) SUP (S₂) · (N.O.) SWD (A₁) · (N.O.) UP (K₁) · (N.C) DN (F₁)

+5VR · ±0V

R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R31 R32 R33 R34 R35 R36 R37 R38

C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32 C33 C34 C35 C36 C37 C38 C39 C40

D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18 D19 D20 D21 D22 D23 D24 D25 D26 D27

L25 L6 L6 L10 L20 L20 L29 L27

L1 L2 L3 L4 L5 L7 L10 L11 L12 L13 L15 L16 L17 L18 L19 L21 L22 L23 L24 L26 L28

I/O PRIME (3₂) · C.TAB · S.TAB · TAB · IDX · RTN · BK.SP · SP · ST₂ · ST₁ · SR₅ · SR₂A · SR₂ · SR₁ · PCC · WT∝ · END∝ · GO · SUP · SWD · UP · DN

OUTPUT / INPUT (11₂) · L23 · L28 · SHIFT F-F · (12₂) · (B₂) · INPUT / OUTPUT · SHIFT DRIVE (Y₂)

TO C5-10 (M₂) · TO L518-B₂ (J₂) · FROM L518-7₂ (B₂) · TO L518-9₁ (K₂) · KA₃ 80MS (N₂) · ±0V (L₂)

COMPONENT LAYOUT

6273

L10 L9 L8 L7 L20 L19 L18 L17 L29 L28 L27 L26 L16 L15 L14 L13 L12 L11 L25 L24 L23 L22 L21

S,R,P,N,M,L,K,J,H,F,E,D,C,B,A, · S,R,P,N,M,L,K,J,H,F,E,D,C,B,A,

1st HALF

SDW	A 1	$\overline{R_1}$
+5VR	B 2	
±0V	C 3	
C.TAB (N.C.)	D 4	WT∝ (N.O.)
TO L518-A₁	E 5	$\overline{R_2}$
TO L518-13₁	F 6	$\overline{T_1}$
TO L518-2₂	H 7	$\overline{T_2}$
$\overline{R_{2A}}$	J 8	$\overline{R_5}$
BK.SP. (N.O.)	K 9	END∝ (N.O.)
C.TAB (N.O.)	L 10	C. TAB (C)
SR_2 (N.O.)	M 11	$\overline{GO}$
ST_1 (N.O.)	N 12	TO L518-15₂
SR_{2A} (N.O.)	P 13	TO L518-P₂
UP (N.O.)	R 14	TO L518-R₂
TAB (N.O.)	S 15	TAB (C)

2nd HALF

S.TAB (N.O.)	A 1	S. TAB (C)
RTN (N.O.)	E 2	ST_2 (N.O.)
IDX (N.O.)	C 3	I/O PRIME
SR_5 (N.O.)	D 4	PCC (N.O.)
SR_1 (N.O.)	E 5	GO (N.O.)
DN (N.C.)	F 6	SP (N.O.)
R/B'	H 7	SHIFT DRIVE
TO L518-B₂	J 8	INPUT / OUTPUT
TO L518-9₁	K 9	FROM L518-7₂
±0V	L 10	S. TAB (N.C.)
C5-10	M 11	OUTPUT / INPUT
KA_3	N 12	SHIFT F-F
	P 13	±0V
	R 14	+5VR
SUP	S 15	TAB (N.C.)

COMP. SIDE · WIRING SIDE

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

LOCATION	TYPE	W.L. PART NO.	TERM. NO. ±0V	TERM. NO. V_{CC} +5VR	QTY
L1,11,26	MC B40P	376-0025	7	14	3
L2,21,28	MC B46P	376-0023	7	14	3
L3	MC1800P	376-0062	7	14	1
L4,5,18,15,24	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	MC B62	376-0034	7	14	1
L18	9946	376-0023	7	14	1
L19	MC B36	376-0026	7	14	1
L23	MC1802	376-0103	7	14	1
L26,27	SN74121N	376-0051	7	14	2
L2,22	SN7403N	376-0028	7	14	2

COMPONENT	SIZE/TYPE	W.L. PART NO.	QTY
R1 THRU11,18THRU24	9.1K ¼W	330-3047	18
R12,13,14,15,16,17	10K ¼W	330-4010	6
R25,26,27,30,31,33,36	33K ¼W	330-4033	7
R28,35	47K ¼W	330-4047	2
R29,34	2.2K ¼W	330-3022	2
R32	220K ¼W	330-5022	1
R37,38	6.8K ¼W	330-3068	2
C1,2,3	.1 MF CER.	300-1918	3
C4 THRU21,29,30,31, 32,42 THRU 50	.05 MF CER.	300-1900	31
C22,23	2.2 MF TANT	300-4014	2
C24,27,28,33,39	1 MF TANT	300-4000	5
C25,34,35,36,37,38	.01 MF CER.	300-1903	6
C26	33 MF TANT	300-4019	1
C40	5.6 MF TANT	300-4017	1
C41, 51	15 MF TANT	300-4022	2
D1 THRU11,14 THRU27	SIL. DIODE	380-1001	25
D12,13	GER. DIODE	380-0000	2

C41 C42 C43 C44 C45 C46 C47 C48 C49 C50 C51 · (14₃) +5VR · (13₃) ±0V

NO.	REVISION	BY	DATE
1	PER ECN #3294 L9 WAS 9936 ADDED D13 APP: U SKHO	JB	10-25-72
2	PER ECN #3397 ADDED D27 APP: D SKHO	JB	11-21-72
3	PER ECN #3437 L2,22 WAS 846 ADDED R37,38 APP: D SKH	BB	12-18-72

210-6272
510-6272

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 611 · DRAWN JB 10-23-72 · APP. SKHO 11-2-72 · CHECKED · APP.

TITLE: SCHEMATIC LOGIBLOC #6273
CONTACT DECODING INPUT SECTION

SHT OF · DWG. NO. D 6273-1 · REV. 3

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DO NOT SCALE

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

IDENT.	DESCRIPTION	QTY.
A		

COMPONENT	SIZE / TYPE	W.L. PART No.	QTY
R1,2,4,6,8,9,16 21,23,24,25,27,28,36	10K ¼W	330-4010	14
R3,5,20,29	27K ¼W	330-4027	4
R7,10,11,13,17, 19,22,26	22K ¼W	330-4022	8
R12,18	100Ω ¼W	330-1010	2
R15	100Ω ½W	330-2010	1
R16	6.8K ¼W	330-3068	1
C1,6,10,16	.01 MF CER	300-1903	4
C2, 17	.0056 MF CER	300-1915	2
C3,13	.56 MF TANT	300-4010	2
C4,7,8,11,12,14	.003 MF CER	300-1905	6
C5, 15	.001 MF CER	300-1906	2
C9	.22 MF CER	300-1902	1
C18,19,20,21,22,23, 24,25,26,27,28,29, 30,31,32,33,34,35,36	.05 MF CER	300-1900	19
C37	10 MFD TANT	300-4032	1
C38	.02 MF 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. -10V	TERM. No. +5VR	QTY
L1,3,42,44	SN7492N	376-0008	8	16	4
L2,4,27,29,30, 41,43	9936	376-0026	7	14	7
L6,12,14,25 32,34,45	SN74S32N	376-0093	7	14	7
L5,16,23,28, 38,46,47	SN7410N	376-0003	7	14	7
L8,17,20,39, 40,49	9602	376-0104	8	14	6
L9,10,11,50,51, 52	9946	376-0023	7	14	6
L13,33,35,18A	SN7400N	376-0002	7	14	5
L17	SN74S02N	376-0016	7	14	1
L21,22,26,31,48	SN7404N	376-0010	7	14	5
L 27	9935	376-0025	7	14	1
L37	SN7437N	376-0068	7	14	1
L15,18,36	SN7409N	376-0002	7	14	3
L38A	SN7406N	376-0055	7	14	1

REVISION	BY	DATE	APPROVED
PER ECN 2212 ADDED FINISH		8-7-72	9-22-72
ADDED SHT 2 CONNECTIONS		9-30-72	
ADDED SHT 3 CONNECTIONS			
PER ECN 2315 REVISED PER COMP. 6396 ADDED SHT 4		8-7-72	9-22-72
REVISED PER ECN 2315 ADDED SHT 5		10-30-72	12-5-72

WANG PART NO.	ITEM	QTY.	NAME
			WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.
MATERIAL			MODEL NO. 724/624
			SEE ENGRG SPECIFICATIONS
FINISH			TOL. EX. AS NOTED .XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1°30'
			SCALE SHT 1 OF 1

MATERIAL	DESCRIPTION		
	BY	DATE	APPROVED BY / DATE
	DWN JGB	2-6-73	E ENGR J.J. 2-26-73
	CHK		M ENGR
	E. C. CONTROL		MFG ENGR

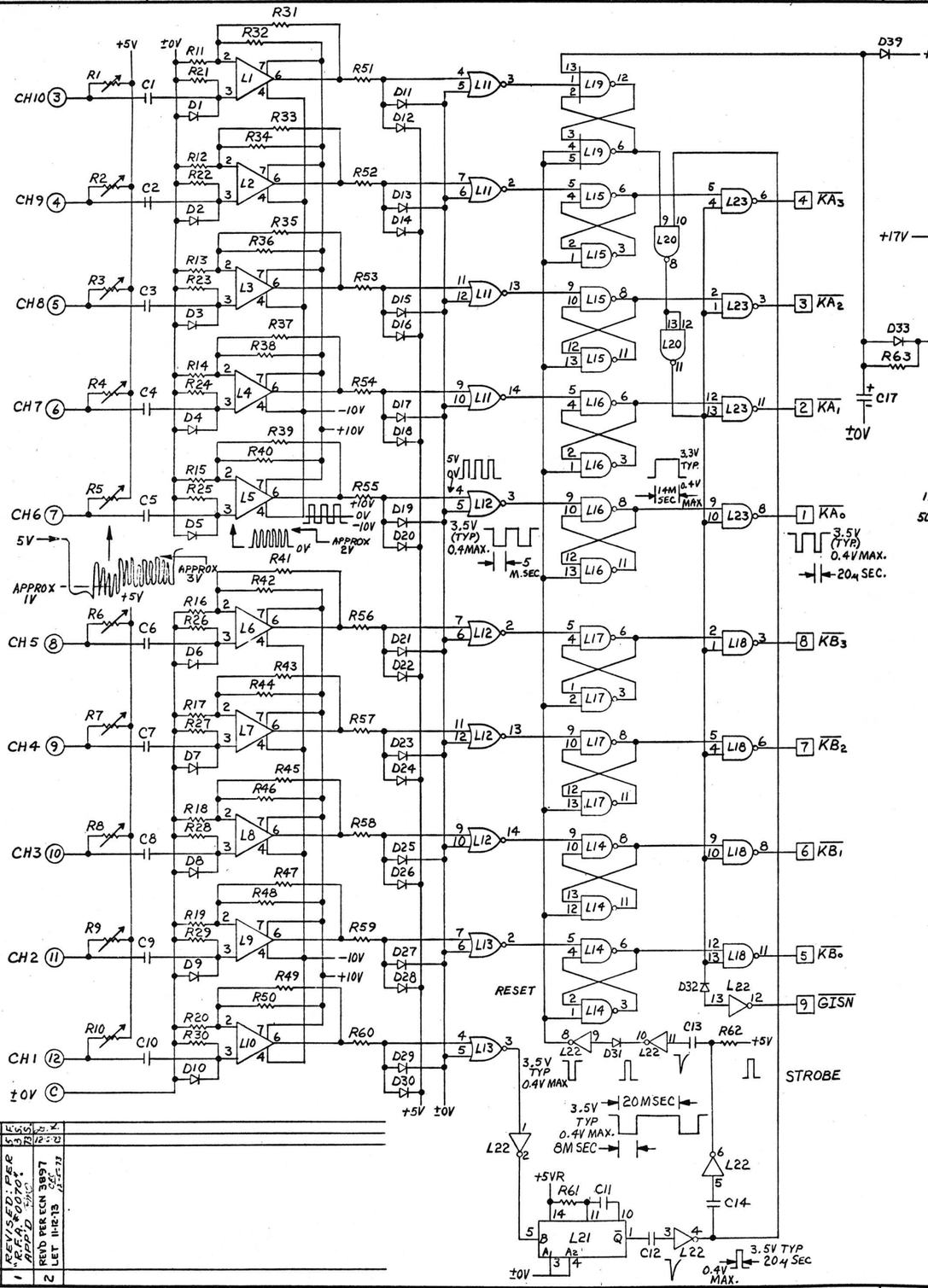
TITLE: SCHEMATIC LOGIBLOC 6276 DUAL CHANNEL MULTIPLEXER

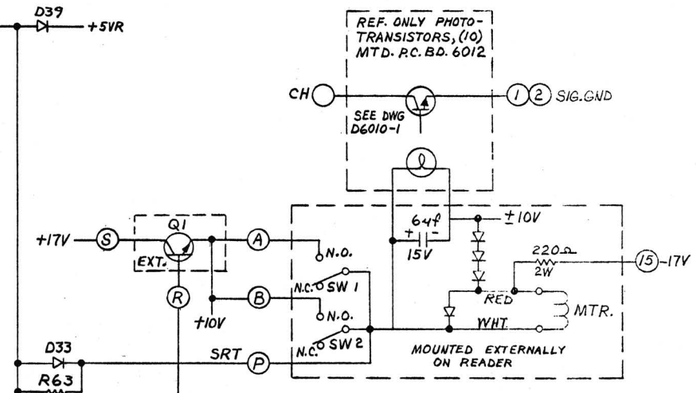
210-6276 | E | 6276-1 | 5

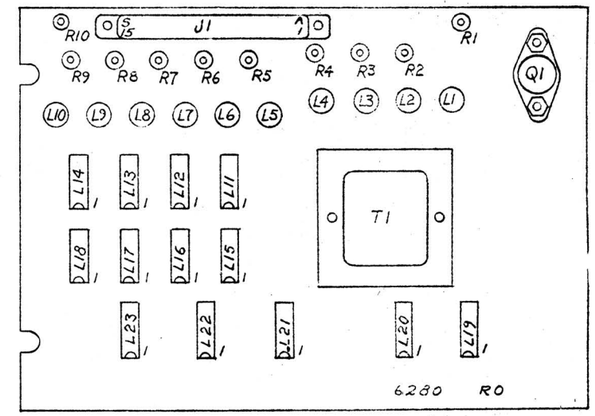
WANG PART NUMBER | SIZE | DRAWING NUMBER | REV.

6276-1

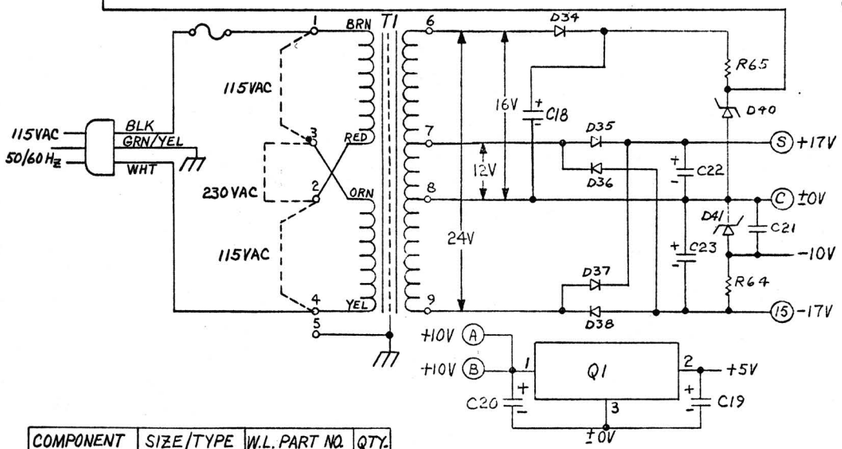
DO NOT SCALE

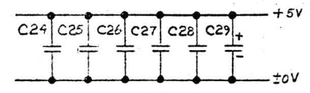


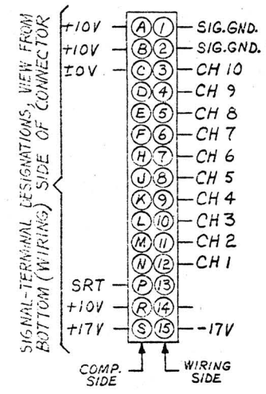




COMPONENT LAYOUT







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

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

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

NO.	REVISION	BY	DATE
1	REVISED: PER "R.F.A." #0070. ADDED [illegible]	F.S.	5-3-73
2	REVD PER ECN 3897 LET 11-12-13	D.V.	12-2-13

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.
400/2214	CHECKED	APP.

TITLE: SCHEMATIC LOGIBLOC
400 & 2214 MARK SENSE CARD READER

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

1-0829

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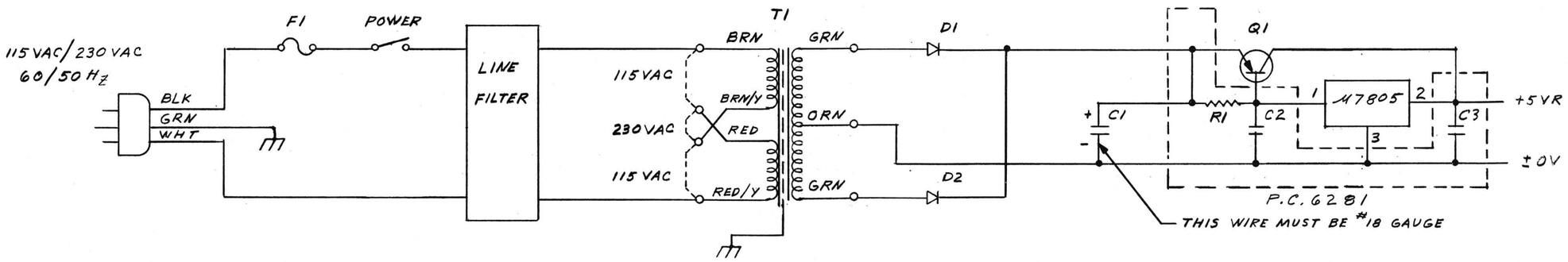
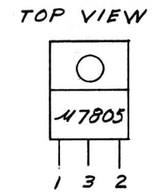
DO NOT SCALE

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	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 GRD FROM FILTER APP'D. SKH	SKH	9-30-72
2	PER ECN #3690 R1 WAS 1/4W APP'D SKH	SKH	6-20-72
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

FINISH

MODEL NO. 723/724

SEE ENGRG SPECIFICATIONS No.

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

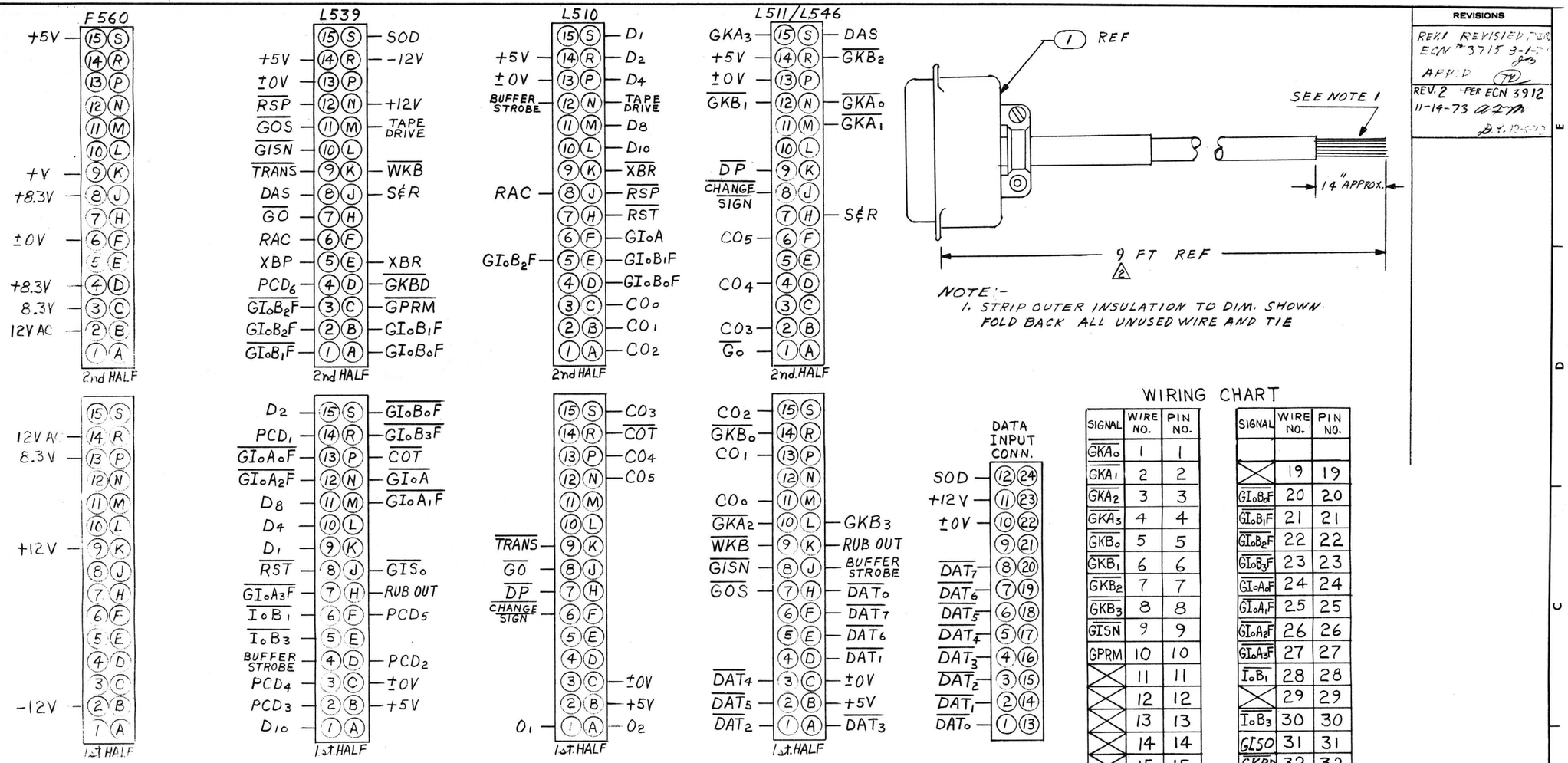
SCALE | SHT | OF

MATERIAL	DESCRIPTION

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

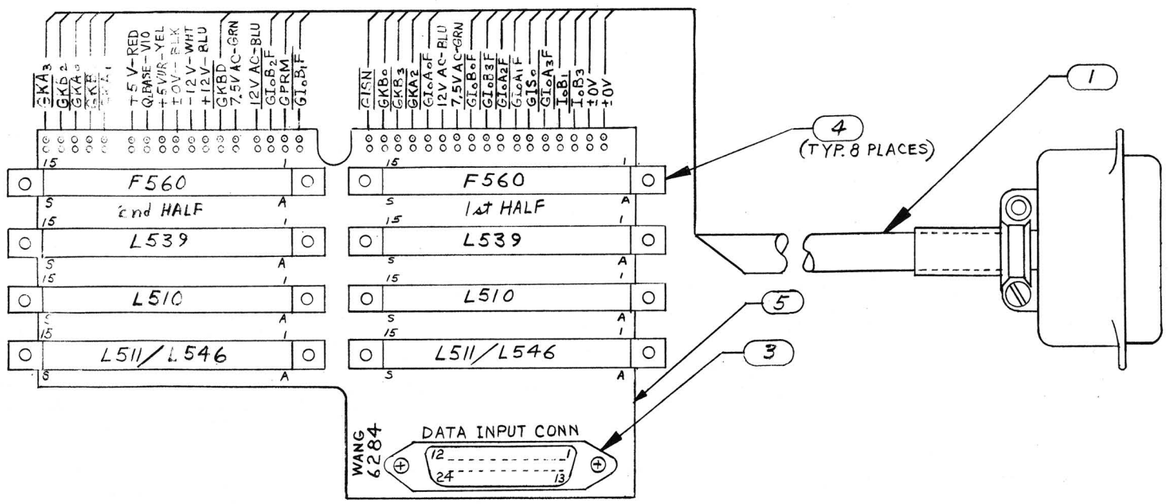
TITLE BUFFER 6281
SCHEMATIC POWER SUPPLY

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



WIRING CHART

SIGNAL	WIRE NO.	PIN NO.
GKAo	1	1
GKA1	2	2
GKA2	3	3
GKA3	4	4
GKBo	5	5
GKB1	6	6
GKB2	7	7
GKB3	8	8
GISN	9	9
GPRM	10	10
	11	11
	12	12
	13	13
	14	14
	15	15
	16	16
	17	17
	18	18
	19	19
GIoBoF	20	20
GIoB1F	21	21
GIoB2F	22	22
GIoB3F	23	23
GIoAoF	24	24
GIoA1F	25	25
GIoA2F	26	26
GIoA3F	27	27
IoB1	28	28
	29	29
IoB3	30	30
GISO	31	31
GKBD	32	32
	33	33
	34	34
	35	35
	36	36



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
1	220-2636-9	CABLE ASSY	SEE DWG. C6132-2	1

REVISIONS

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

REV. 2 -PER ECN 3912 11-14-73 GTM DY. 12-5-73

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

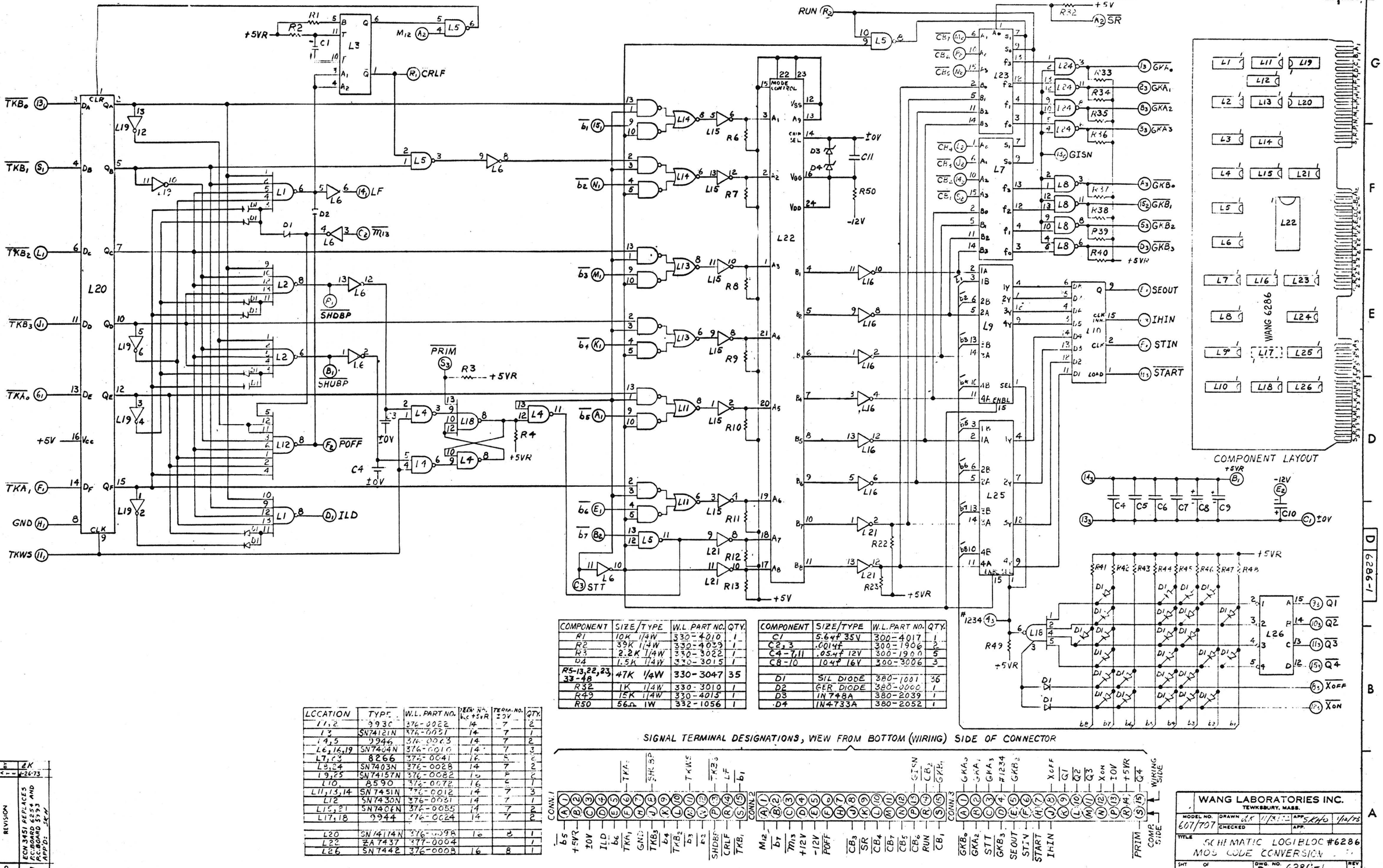
W.O. NO.

DWG. NO. C 6284-1

REV. .2

DWG. NO. C

DO NOT SCALE



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
R43	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	104P 16V	300-3006	3
D1	SIL DIODE	380-1001	36
D2	GER DIODE	380-0006	1
D3	IN748A	380-2039	1
D4	IN4733A	380-2052	1

LOCATION	TYPE	W.L. PART NO.	PWR. NO. Vcc +5VR	TERM. NO. -12V	QTY.
L1,2	3930	376-0022	14	7	2
L3	SN74121N	376-0031	14	7	1
L4,5	2946	376-0063	14	7	2
L6,16,19	SN7404N	376-0010	14	7	3
L7,23	8266	376-0041	16	5	2
L8,24	SN7403N	376-0028	14	7	2
L9,25	SN7415TN	376-0082	16	5	2
L10	8590	376-0072	16	5	1
L11,13,14	SN7451N	376-0012	14	7	3
L12	SN7430N	376-0051	14	7	1
L15,21	SN7406N	376-0055	14	7	2
L17,18	0944	376-0024	14	7	2
L20	SN74114N	376-0098	16	8	1
L22	ZA7437	377-0004			1
L26	SN7442	376-0008	16	8	1

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

CONN.1: B5, +5VR, +10V, ILD, B6, TKA1, GND, TKB3, B4, TKB2, B3, B2, SHDBF, CRLF, TKB1, B5

CONN.2: M12, B1, M13, +12V, -12V, POFF, CB3, SR, CB4, CB7, CB5, CB6, RUN, CB1, B5

CONN.3: GKB0, GKA2, STT, GKB3, SEOUT, STIN, START, IHIN, GKA3, GKA1, GKA3, #1234, GKB2, XOFF, Q1, Q2, Q3, XON, +10V, +5VR, Q4, PRIM, COMP. SIDE, WIRING SIDE

REVISION	BY	DATE
1	ECN 3351 REPLACES ECBOARD 6554 AND ECBOARD 6555 APP'D:	JK 7-26-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.	
607/707	JK 11/8/72	SKHO	1/10/73
	CHECKED	APP.	

TITLE: SCHEMATIC LOGIBLOC #6286 MOS CODE CONVERSION

SHT OF | DWG. NO. D 6286-1 | REV 1

D 6286-1

R.O.M. CABLE

SOLDER POINTS

R.O.M CONNECTOR 225-21521-101 WL 330-0008

L556 L556 L556 L556 L556 L556 L556 L556 L556 L556

1 MSV
2 +5VR
A ±0V
B A0
E OPR3
D OPR2
F OPR1
H A7
13 A8
14 A1
9 A2
J A4
10 A5
11 A6
7 A3
C A9
5 A11
6 A10

2nd HALF

1st HALF

L557 MSV

+5VR

±0V

R1
R2
R3
R4

T MODULE
S MODULE
R MODULE
P MODULE
N MODULE
M MODULE

$\overline{G I_0 B_1 F}$ 21
$\overline{G I_0 B_0 F}$ 20
$\overline{I_0 B_3}$ 30
$\overline{I_0 B_2}$ 29
$\overline{I_0 B_1}$ 28
$\overline{GISO}$ 31
$\overline{GKB_0}$ 5
$\overline{GISN}$ 9
$\overline{GKA_3}$ 4
$\overline{GKB_1}$ 6

K MODULE
L MODULE

1st HALF

F MODULE
E MODULE
D MODULE
C MODULE
B MODULE
A MODULE

H MODULE
J MODULE

GI_0B_3F 22
GI_0B_2F 23
GI_0A_0F 24
$\overline{GKBD}$ 32

GPRM 10
GI_0A_1F 25
GI_0A_2F 26
GI_0A_3F 27
±0V 33
34
35
CH. GND 36

I/O CABLE

I/O CONNECTOR AMPHENOL 57-30360

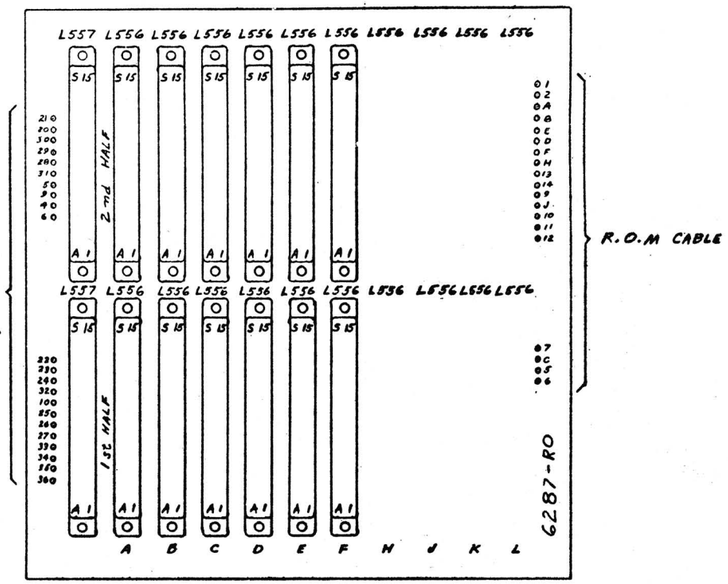
L L K J H F E D C B A

DO NOT LOAD

SEE NOTE #2

CABLE 24 COND. 26 GA
2½ FT LONG
WL 420-0002

CABLE 24 COND. 26 GA.
3 FT LONG
WL 420-0002



NOTE:

1. CONNECTOR (225-21521-110) WL. 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	DATE	BY
PER ECN # 3639 ADDED 4 470Ω RESISTORS AS'D	6-10-73	SEMO

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.
628/FAB	DB 2-28-73	SEMO 6/7/73
	CHECKED	APP.

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

SHT OF | DWG. NO. D 6287-1 | REV. 1

6287-1

DO NOT SCALE

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
C26,25 EXT.	1000MFD	300-3005	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. W.S. SIDE	TERM. NO. S.A. SIDE	QTY.
L1,14,15	μA723	376-0066	8	5	3
L2	NE5566E	376-0112	8	1	1
L3	9935	376-0025	14	7	1
L4THRU9	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	IN4735A	380-2063	1
D2	IN 751A	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
16 PIN	IC SOCKET	376-9005	2
14 PIN	IC SOCKET	376-9001	6

CONN.1

+5V	A1	
±0V	B2	
	C3	
	D4	
BASE	E5	
	F6	20VAC
	H7	5V UNREG
	J8	-15VUR
	K9	15VAC2
	L10	15VAC1
	M11	+15VUR
	N12	+10VR
-15VR	P13	+15VR
	R14	
	S15	

CONN.2

VFRQ	A1	
	B2	SPZ
INH	C3	COUNT
CLAR	D4	FNSH
CPRN	E5	LOSP
BSD	F6	STCT
PRINA	H7	SEARCH
PRINA	J8	STOP
	K9	RSAF
	L10	PRC
	M11	PRIN
	N12	BS
	P13	HALF
BS	R14	
	S15	

CONN.3

	A1	
	B2	
CKSL	C3	
YGND	D4	
	E5	
	F6	YAV
	H7	PRST
	J8	XAV
	K9	UY
	L10	DY
	M11	XGND
UX	N12	
	P13	±0V
	R14	+5V
DX	S15	

COMP. SIDE — WIRING SIDE

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

SPRINM-KVHFEDCBA

COMPONENT LAYOUT 6250

WANG 6288-XO

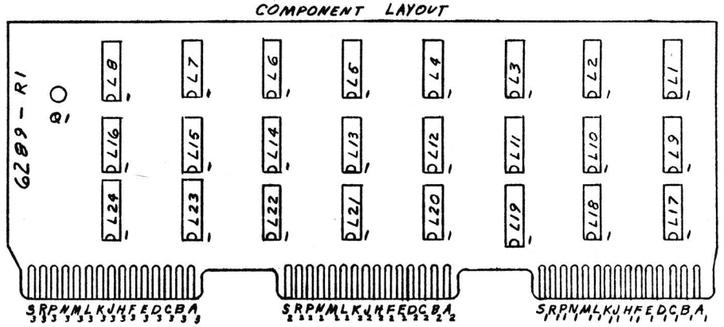
REVISION

WANG LABORATORIES INC.	TEWKSBURY, MASS.
MODEL NO. 612/712	DRAWN GK 10/6/72 APP.
CHECKED	APP. 8-17-73
TITLE	SCHEMATIC LOGIBLOC #6288 REGULATOR & D/A
SHT 1 OF 1	DWG. NO. D 6288-1 REV.

D 6288-1

DO NOT SCALE

COMPONENT LAYOUT



COMP.	SIZE/TYPE	W.L. PART NO.	QTY
R1	470Ω ¼W	330-2047	1
R2	1.8K ¼W	330-3018	1
R4,5,19,22	4.7K ¼W	330-3047	4
R6	2.2K ¼W	330-3022	1
R7,8,10,11, 12,13,20,21	10K ¼W	330-4010	8
R9,14	15K ¼W	330-4015	2
R15,18	1K ¼W	330-3010	2
R16	560Ω 2W	337-2056	1
R17	120Ω ½W	331-2012	1
C1,7,10	.001 MF CER	300-1906	3
C2	.1 MF CER	300-1901	1
C3	3.3 MF 15V TANT	300-4016	1
C4	820 PF CER	300-1820	1
C5	.56 MF 35V TANT	300-4010	1
C6,9,11, 12,15,16	.01 MF CER	300-1903	6
C8	.39 MF 35V TANT	300-4009	1
C13,17	220 PF CER.	300-1220	2
C14,18	47 PF CER	300-1047	2
C19,28	15 MF 20V TANT	300-4022	2
C20,21,22,23, 24,25,26,27	.005 MF CER	300-1900	8
C29	.22 MF CER	300-1902	1
D1	DIODE SIL	380-1001	1
D2	EM403	380-4000	1
Q1	2N3019	375-0017	1

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

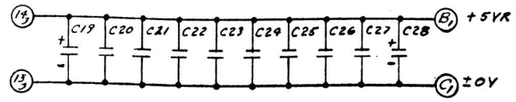
CONN 1
- +5VR — A1
- ±0V — B2
- $\overline{DX}$ — C3
- LEFX — D4
- $\overline{UX}$ — E5
- RGX — F6
- $\overline{CLAR}$ — G7
- XSW1 — H8
- DCX3 — J9
- DCX2 — K10 — DCX4
- DCX1 — L11 — YSW1
- $\overline{PHX}$ — M12
- $\overline{PHY}$ — N13
- P14
- R15

CONN 2
- CONT — A1
- B2 — $\overline{RBS}$
- $\overline{ORG}$ — C3
- LYSW — D4
- $\overline{DY}$ — E5
- $\overline{UY}$ — F6
- UYSW — H7
- J8
- DCY3 — K9
- DCY2 — L10
- DCY4 — M11
- DCY1 — N12
- $\overline{SEARCH}$ — P13
- $\overline{STCT}$ — R14
- S15

CONN 3
- BS — A1
- B2
- $\overline{COUNT}$ — C3
- FNSH — D4
- E5
- F6
- H7
- J8
- K9
- L10
- M11 — +28V
- N12 — $\overline{X\ PWON}$
- P13 — ±0V
- R14 — +5VR
- S15

COMP. SIDE — WIRING SIDE

LOCATION	TYPE	W.L. PART No.	TERM. No. ±0V	TERM. No. Vcc +5VR	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	376-0109	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



NO	DATE	BY
A	9-13-73	MH
REVISION	REVISED PER ECN # 3796 APPROVED SKH	REVISED PER ECN # 3931 APP'D SKH
NO	1	2

WANG LABORATORIES INC.
TEWKSBURY, MASS.

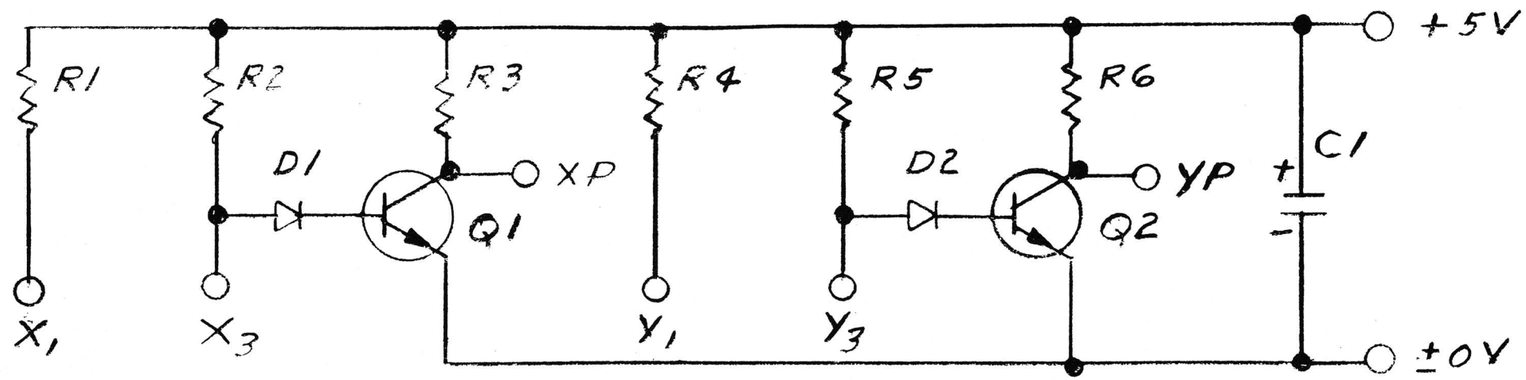
MODEL NO.	DRAWN	APP.
732	CHECKED	APP. 9/13/73

TITLE: SCHEMATIC LOGIBLOC 6289
STEP MOTOR DRIVER DECODER

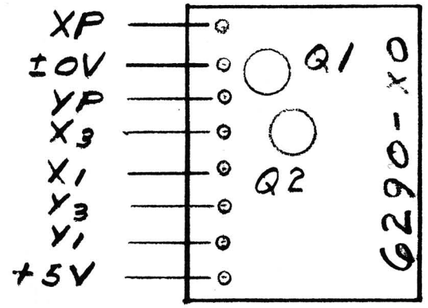
SHT OF — DWG. NO. D 6289-1 — REV. 2

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



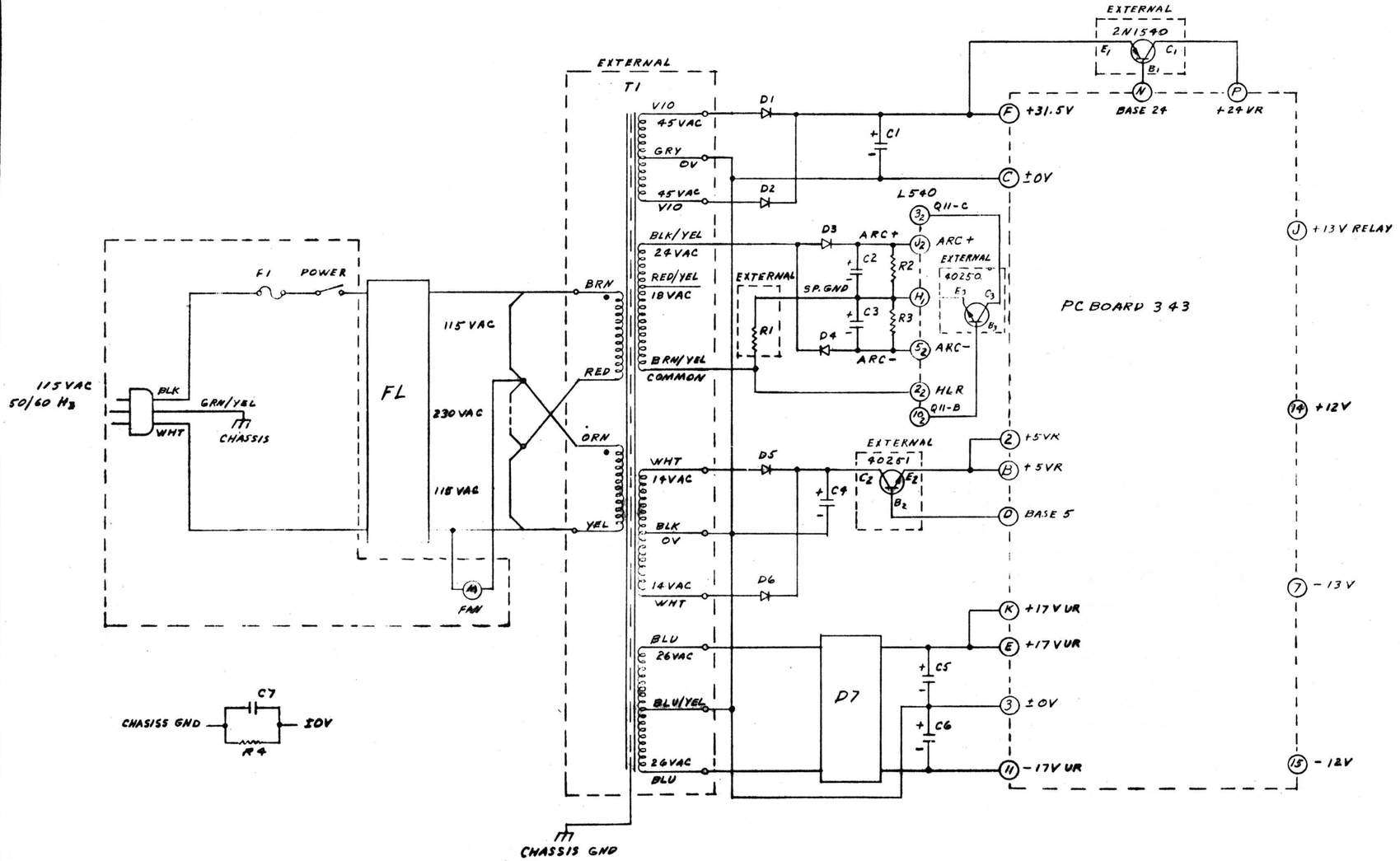
WANG LABORATORIES, INC.
TEWKSBURY, MASS. U. S. A.

MODEL NO.	DRAWN	3-7-73	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
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	410-0078	1
FL	LINE FILTER	120-2002	1
F1	2A	360-1020	1

REVISION	BY	DATE
1 PER ECN #3703 C4 WAS 6800 MF APP'D 3K/10	RB	7-27-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 629 .739 | DRAWN DB 7-27-73 | CHECKED KT 8/7/73 | APP. | 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

L540-10Z
Q11-B

L540-3Z
Q11-C

Q11

#24 BUSS

R1

L540-2Z
HLR

L540-H,
SP GND

343

1st HALF

2nd HALF

L540

MXE	15 S	
+5VR	14 R	
±0V	13 P	
MXI	12 N	
MXG	11 M	
Q11-B	10 L	
	9 K	M_2R
	8 J	ARC+
M_1R	7 H	
M_1L	6 F	
ARC−	5 E	
M_2L	4 D	
Q11-C	3 C	
HLR	2 B	
MXA	1 A	MXF

L542

+5VR	14 R	$\overline{RIGHT}$
±0V	13 P	
MXB	12 N	MXF
	11 M	$\overline{FOR}$
MXD	10 L	MTONC
	9 K	MXH
RBK	8 J	$\overline{MTONC}$
	7 H	MXG
	6 F	MXC
	5 E	MXJ
−13V	4 D	
SP GND	3 C	
MXI	2 B	MXA
+13V	1 A	MXE

L537

+5VR	14 R	
±0V	13 P	
	12 N	$\overline{CTDWL}$
	11 M	$\overline{CTUPL}$
	10 L	B_3F
	9 K	B_2F
	8 J	B_0F
	7 H	B_1F
	6 F	$\overline{CTUPR}$
	5 E	$\overline{CTDWR}$
	4 D	P_3
	3 C	
	2 B	A_1F
	1 A	

L564

GOS	15 S	$\overline{RL\,II}$
+5VR	14 R	
±0V	13 P	
GOSD	12 N	$\overline{WL\,II}$
$\overline{GOSD}$	11 M	$\overline{RL\,I}$
$\overline{WL\,I}$	10 L	
REBL	9 K	FCLK
	8 J	15 K HZ
$\overline{RCL_0}$	7 H	DK II
$\overline{RCR_0}$	6 F	
$\overline{SEL\,II}$	5 E	
$\overline{SEL\,I}$	4 D	$\overline{WTST}$
DIL_1	3 C	DK II
DIR_1	2 B	DK I
DIL_0	1 A	

L563

+5VR	14 R	$\overline{GKA_0}$
±0V	13 P	
$\overline{GKA_1}$	12 N	
$\overline{GKA_2}$	11 M	$\overline{GKA_3}$
$\overline{GKB_1}$	10 L	
$\overline{GKB_0}$	9 K	$\overline{GKB_3}$
$\overline{GKB_2}$	8 J	DK
	7 H	
	6 F	
	5 E	$\overline{P_4}$
	4 D	GOSD
	3 C	
ZDL	2 B	WT
	1 A	DK I II

L562

+5VR	14 R	
±0V	13 P	
$\overline{MTONC}$	12 N	MTONC
$\overline{FOR}$	11 M	$\overline{F_0C}$
WEBLP	10 L	$\overline{SFF}$
	9 K	$\overline{P_4}$
$\overline{DL_{13}}$	8 J	RBK
$\overline{HIRC}$	7 H	
$\overline{HILC}$	6 F	
	5 E	
$\overline{PRR\,I}$	4 D	$\overline{WMONF}$
$\overline{PRF\,I}$	3 C	$\overline{WEBL}$
$\overline{PRR\,II}$	2 B	$\overline{WEBL}$
$\overline{PRF\,II}$	1 A	$\overline{WMOND}$

L561

FIND	15 S	
+5VR	14 R	
±0V	13 P	
ERROR	12 N	FORMAT ENBL I
ERW	11 M	DK I
$\overline{SFF}$	10 L	$\overline{MER\,I}$
FORMAT ENBL II	9 K	$\overline{LPF}$
$\overline{BCCL}$	8 J	DK II
MERD	7 H	$\overline{MER\,II}$
BLCKD	6 F	A_3F
$\overline{F_0C}$	5 E	$\overline{RDST}$
$\overline{Z\,DROP}$	4 D	LPS
$\overline{P_2}$	3 C	ZDL
$\overline{GOS}$	2 B	RD
WEBL	1 A	WT

L535

+5VR	14 R	
±0V	13 P	
GOS	12 N	BCCL
$\overline{BCCL}$	11 M	$\overline{GOS}$
$\overline{GPRM}$	10 L	QPQ
OPQP	9 K	DK I
REWDC	8 J	$\overline{LOP}$
	7 H	DK II
	6 F	$\overline{ROP}$
	5 E	$\overline{GISO}$
RRTB	4 D	REWD
I_0B_3	3 C	$\overline{RRTB}$
I_0B_2	2 B	DGISO
I_0B_1	1 A	AGISO

L560

+5V	15 S	$\overline{HKP_4}$
±0V	14 R	
	13 P	
	12 N	$\overline{GISN}$
$\overline{Z\,DROP_1}$	11 M	ZDL
$\overline{ECL}$	10 L	P4
$\overline{GISD}$	9 K	SW 1
OPQ	8 J	$\overline{CLRC}$
	7 H	DK II
	6 F	15 K HZ
RRTB	5 E	P_{123}
RD	4 D	REWD
FDATA	3 C	WT
$\overline{RIGHT}$	2 B	$\overline{GPRM}$
$\overline{GISO}$	1 A	DK I

−12V	15 S	
+12V	14 R	
	13 P	+24V
	12 N	BASE 24
−17VR	11 M	
	10 L	
	9 K	+17VR
	8 J	+13V
−13V	7 H	
	6 F	+31.5VR
	5 E	+17VR
	4 D	BASE 5
±0V	3 C	±0V
+5VR	2 B	+5VR
	1 A	

	15 S	MXB
	14 R	MXD
	13 P	MXH
	12 N	
	11 M	
	10 L	
	9 K	
	8 J	
	7 H	SP GND
	6 F	MXC
	5 E	MXJ
	4 D	+13V
	3 C	±0V
	2 B	+5VR
	1 A	−13V

	15 S	$\overline{PRF\,II}$
$\overline{RSR}$	14 R	$\overline{PRF\,I}$
$\overline{FSR}$	13 P	
$\overline{FSL}$	12 N	
	11 M	$\overline{PRR\,II}$
$\overline{RSL}$	10 L	$\overline{PRR\,I}$
$\overline{HIRS}$	9 K	$\overline{HIRC}$
$\overline{HILS}$	8 J	
	7 H	
	6 F	$\overline{HILC}$
	5 E	$\overline{MTONC}$
+24V	4 D	
	3 C	±0V
	2 B	+5VR
	1 A	

CLRLB	15 S	
DK II	14 R	
	13 P	
	12 N	
CLRRB	11 M	
A=B	10 L	
A<B	9 K	
A>B	8 J	
A_3F	7 H	
P_2	6 F	
A_2F	5 E	
	4 D	A_0F
	3 C	±0V
	2 B	+5VR
	1 A	

DK	15 S	WT
LTCK	14 R	$\overline{GOS}$
LDK	13 P	$\overline{Z\,DROP_1}$
RTCK	12 N	WEBL
RDK	11 M	DGISO
DATA	10 L	DIR_0
A_3F	9 K	$\overline{TIMC}$
	8 J	
	7 H	B_3F
	6 F	B_2F
A_2F	5 E	B_1F
A_1F	4 D	B_0F
	3 C	±0V
	2 B	+5VR
A_0F	1 A	

$\overline{BLCK}$	15 S	
	14 R	
$\overline{GISD}$	13 P	$\overline{BCCL}$
MERD	12 N	
P_{123}	11 M	
$\overline{DL_{13}}$	10 L	
ERROR	9 K	
$\overline{WEBL}$	8 J	$\overline{LPF}$
$\overline{RDST}$	7 H	$\overline{HKP_4}$
$\overline{GOSD}$	6 F	
$\overline{WTST}$	5 E	
REBL	4 D	LPS
	3 C	±0V
	2 B	+5VR
DATA	1 A	

BCCL	15 S	REBL
DK II	14 R	CLRRB
	13 P	$\overline{Z\,DROP_2}$
	12 N	$\overline{GOS}$
ZDL	11 M	$\overline{CTDWR}$
DK I	10 L	$\overline{CTUPL}$
A<B	9 K	$\overline{CTDWL}$
ERW	8 J	$\overline{GPRM}$
RD	7 H	CLRLB
RRTB	6 F	$\overline{CTUPR}$
$\overline{CLRC}$	5 E	REWD
BLCKD	4 D	$\overline{BLCK}$
	3 C	±0V
$\overline{R_5C}$	2 B	+ 5VR
	1 A	$\overline{HKP_4}$

REBL	15 S	LPSD
P_2	14 R	A_2F
	13 P	P_3
P_4	12 N	P_1
$\overline{GPRM}$	11 M	$\overline{WTST}$
AGISO	10 L	$\overline{DL_{13}}$
B_1F	9 K	$\overline{P_4}$
P_{123}	8 J	B_0F
A_0F	7 H	B_3F
A_1F	6 F	SFF
B_2F	5 E	$\overline{P_{123}}$
OPQ	4 D	A=B
	3 C	±0V
	2 B	+5VR
BoT	1 A	$\overline{A=BP}$

A_0F	15 S	DK I II
$\overline{GI_0A_0F}$	14 R	$\overline{GI_0A_1F}$
A_2F	13 P	A_1F ∘
$\overline{GI_0A_2F}$	12 N	$\overline{CRS_1I}$
A_3F	11 M	$\overline{CRS_2I}$
$\overline{GI_0A_3F}$	10 L	B_1F
B_3F	9 K	$\overline{GI_0B_1F}$
$\overline{GI_0B_3F}$	8 J	$\overline{CRS_3I}$
B_0F	7 H	$\overline{CRS_0I}$
$\overline{GI_0B_0F}$	6 F	$\overline{CRS_3II}$
$\overline{GI_0B_2F}$	5 E	B_2F
$\overline{CRS_2II}$	4 D	±0V
	3 C	±0V
	2 B	+ 5VR
$\overline{CRS_1II}$	1 A	

A=B	15 S	DK I II
A_3F	14 R	FCLK
FIND	13 P	LOCK SW.
	12 N	
	11 M	$\overline{WEBLP}$
	10 L	$\overline{Z\,DROP_2}$
	9 K	WMONF
BoT	8 J	$\overline{GKBD}$
BoF	7 H	$\overline{BLCK}$
$\overline{TIMC}$	6 F	$\overline{WMOND}$
SFF	5 E	LPSD
	4 D	$\overline{F_0C}$
	3 C	±0V
	2 B	+5V
	1 A	

P1

P2

CG235-1 SHT. 3

DG235-1 SHT. 6

CG235-1 SHT. 7

CG235-1 SHT. 4

CG235-1 SHT. 8

CG235-1 SHT. 5

I/O CABLE

CH. GND 29VAC +24V +12V -12V +5V ±0V

C4 C1 C7 C6 C5 D7 C2 C3

BRN RED ORN

YEL FL

GRN WHT BLK WHT VIO GRAY VIO BLU BLU/YEL BLU BLK/YEL RED/YEL BRN/YEL

C_1 B_1 E_1 E_2 B_2 C_2

CHAS. GND.

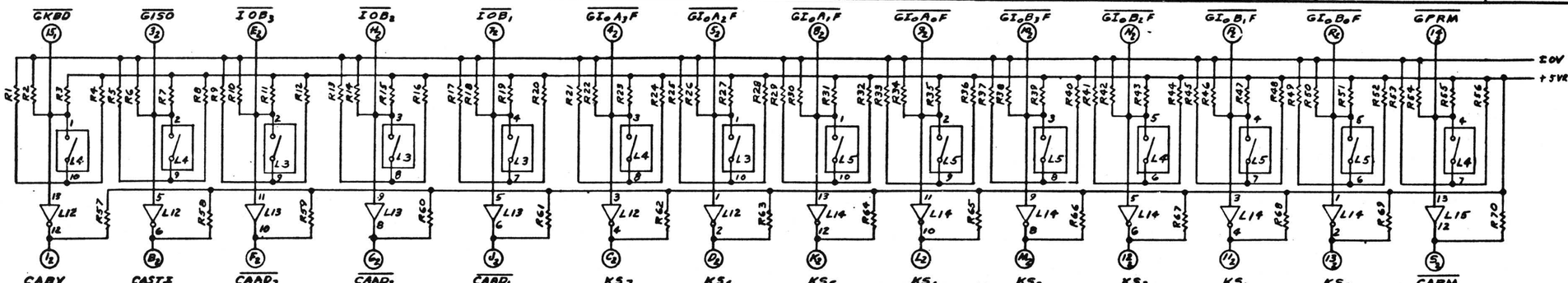
COMP	SIZE/ TYPE	W.L. NO.	QTY
D8	GERM. DIODE	380-0000	1

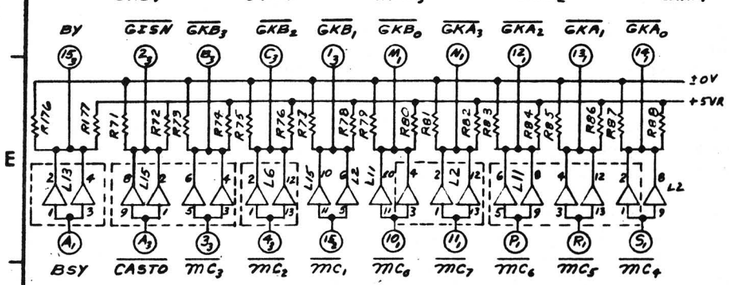
WANG LABORATORIES INC. TEWKSBURY, MASS.			
MODEL NO. 729	DRAWN K.K	3-6-73	APP.
	CHECKED	3-17-73	APP.
TITLE: POWER SUPPLY AND MOTHER BOARD			
SHT 2 OF 8	DWG. NO. D 6294-1		REV

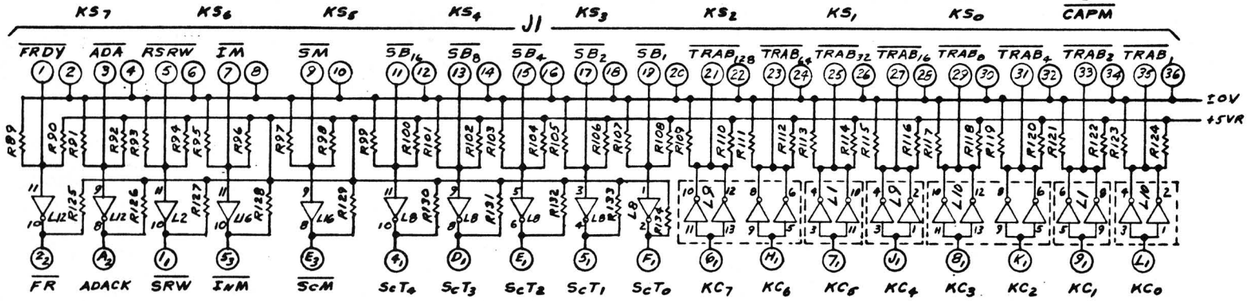
D 6294-1

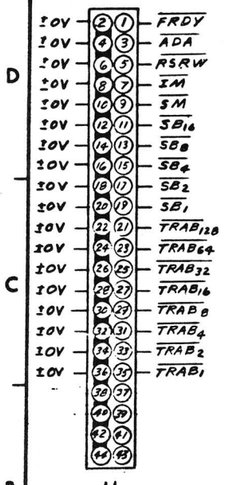
NO	REVISION	BY	DATE

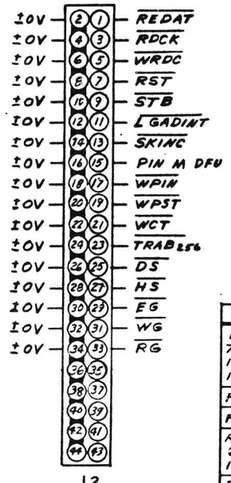
DO NOT SCALE

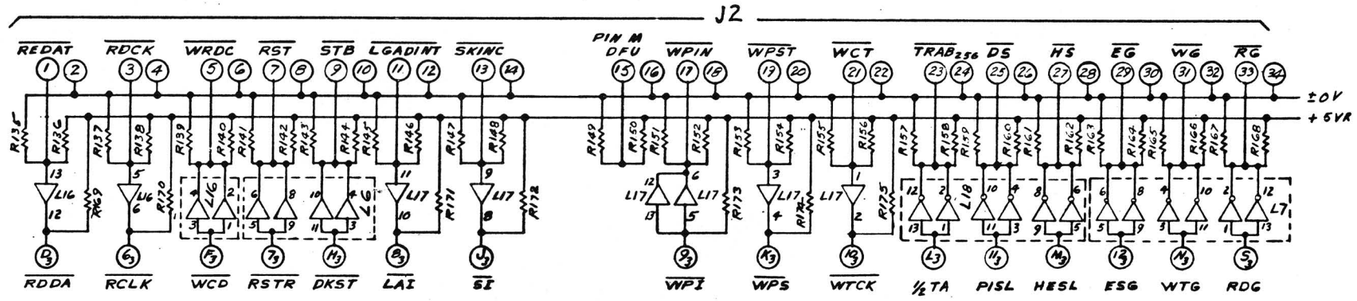


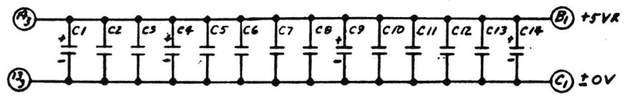




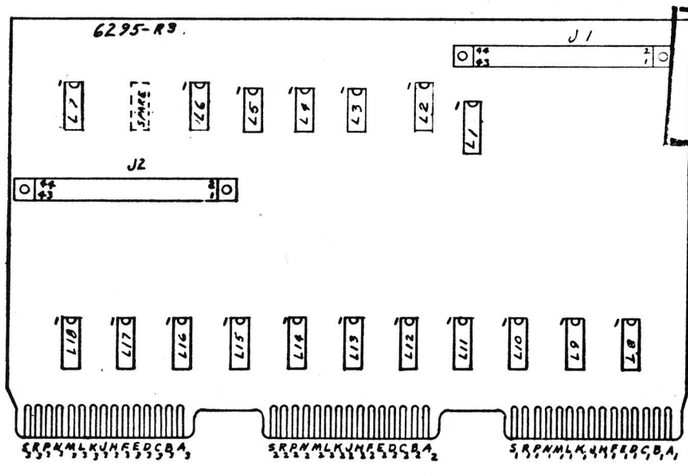








COMPONENT	SIZE/TYPE	WL PART NO.	QTY
R4,5,9,13,17,21,25,29,33,37,41,45,49,53,71,73,75,77,79,81,83,85,87,89,91,93,95,97,99,101,103,105,107,109,111,113,115,117,119,121,123,135,137,139,141,143,145,147,149,151,153,155,157,159,161,163,165,167,176	330Ω ¼W	330-2033	59
R2, 6, 10, 14, 18, 22, 26, 30, 34, 38, 42, 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	18MF 30V 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

LOCATION	TYPE	W.L. PART No.	TERM. No. 0V	TERM. No. VCC +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

CONN. 1

BSY	A 1	ERW
+5VR	B 2	
±0V	C 3	
ScT3	D 4	ScT4
ScT2	E 5	ScT1
ScT0	F 6	KC7
KC5	H 7	KC6
KC4	J 8	KC3
KC2	K 9	KC1
KC0	L 10	MC0
GKB0	M 11	MC7
GKA3	N 12	GKA2
MC6	P 13	GKA1
MC5	R 14	GKA0
MC4	S 15	GKBD

CONN. 2

ADACK	A 1	CABY
CASTI	B 2	FR
KS7	C 3	GISO
KS6	D 4	GIoA3F
IoB3	E 5	GIoA2F
CAAD3	F 6	CAAD2
IoB2	H 7	IoB1
CAAD1	J 8	GIoA1F
KS5	K 9	GIoA0F
KS4	L 10	GIoB3F
KS3	M 11	KS1
GIoB2F	N 12	KS2
GIoB1F	P 13	KS0
GIoB0F	R 14	GFRM
CAPM	S 15	MC1

CONN. 3

CASTO	A 1	GKB1
GKB3	B 2	GISN
GKB2	C 3	MC3
RDDA	D 4	MC2
SCM	E 5	INM
WCD	F 6	RCLK
DKST	H 7	RSTR
SI	J 8	LAI
WPS	K 9	WPI
½TA	L 10	WTCK
HESL	M 11	PISL
WTG	N 12	ESG
	P 13	±0V
	R 14	+5VR
RDG	S 15	BY

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

COMP. SIDE — WIRING SIDE

LTR	DATE	BY	ECO
A	10-19-73	11-4-74	11-6-74
B			
C			
D			
E			
F			
G			

NO	REVISION
1	REVISED PER ECN#3855 APP:D
2	REVISED PER ECN#5692. ADDED J1 & J2
3	REVISED PER ECN#5656 APP:
4	REVISED PER ECN#5656 APP:

E.C. REV. 0

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.
6327730 2230	4-17-73	7-7-73
	CHECKED 11-7-74	APP.

TITLE: SCHEMATIC LOGIBLOC 6295 TERMINATOR BOARD

SHT 4 OF 5 | DWG. NO. D 6295 | REV. 4

MAY 19 1977

DO NOT SCALE

COMP.	SIZE/TYPE	W.L. PART No.	QTY
R1, 8	470Ω ¼W	330-2033	2
R2, 3, 16	100Ω ¼W	330-2010	3
R4, 5, 6, 7, 9	2.2K ¼W	330-3022	5
R10, 11, 12, 13, 14, 15	33K ¼W	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 ¼W	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	9335	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	376-0039	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, 1B	SN7400N	376-0002	7	14	2

COMPONENT LAYOUT

6296-RO

L1			L6			L15																	
L1A			L7			L16																	
L1B			L8			L17																	
L1C			L9			L18																	
			L10			L19																	
L2																							
			L11			L20																	
			L3			L12																	
L4			L5			L14																	

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

CONN. 1

$\overline{CAN}$	A 1	$\overline{Tol}$
+5VR	B 2	
±0V	C 3	
$\overline{KC_3}$	D 4	CABY
$\overline{KC_2}$	E 5	CAST I
$\overline{KC_1}$	F 6	$\overline{KC_0}$
BRL	H 7	$\overline{ADSS}$
KS_6	J 8	KS_7
KS_5	K 9	KS_4
KC_7	L 10	KS_6
KC_5	M 11	KC_4
$\overline{CAX}$	N 12	$\overline{SCM}$
A_4	P 13	ScT_4
A_7	R 14	A_6
ERROR	S 15	A_5

CONN. 2

KS_1	A 1	ED_9
C_1	B 2	C_0
KC_3	C 3	KC_2
ED_0	D 4	ScT_3
KC_1	E 5	$\overline{ACU}$
WDRDY	F 6	KC_0
BRH	H 7	$ScTo$
C_3	J 8	C_2
A_3	K 9	A_2
A_0	L 10	A_1
C_6	M 11	ScT_1
C_5	N 12	ScT_2
C_4	P 13	KS_3
RM_0	R 14	KS_2
RM_4	S 15	KS_0

CONN. 3

C_7	A 1	$\overline{SRW}$
RM_5	B 2	RM_1
RM_6	C 3	RM_2
RM_7	D 4	RM_3
$\overline{STI}$	E 5	t_4
$\overline{NOOP}$	F 6	R_{12}
R_{13}	H 7	CNTRL
$\overline{FD}$	J 8	R_{14}
$\overline{BR_3}$	K 9	$\overline{RD}$
$\overline{BC}$	L 10	R_{11}
R_8	M 11	$\overline{KR}$
CC	N 12	R_{15}
	P 13	IOV
$\overline{WRI}$	R 14	+5VR
KX	S 15	R_9

COMP. SIDE — WIRING SIDE

REVISION	BY	DATE
Q		

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.	
730	CHECKED	APP.	

TITLE: SCHEMATIC, LOGIBLOC 6296 MICRO PROCESSOR

SHT OF | DWG. NO. D 6296-1 | REV.

6296-1

DO NOT SCALE

EXTERNAL JUMPER

XTAL 10 MHz

+5VR

±0V

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

CONN. 1

+5VR	A1	B2	
±0V	C3	D4	$\overline{CAN}$
$\overline{t_{6,7}}$	E5	F6	ADI
$\overline{t_{01}}$	F6	G7	$\overline{STW}$
EJ_2	H7	J8	$\overline{ADI}$
$\overline{CAAD_3}$	J8	K9	EJ_1
$\overline{t_4}$	K9	L10	t_4
$\overline{CAX}$	L10	M11	$\overline{CAAD_1}$
$\overline{BLC}$	M11	N12	$\overline{BC}$
$\overline{BR_0}$	P13	R14	$\overline{BR}$
$\overline{BR_1}$	R14	S15	R_{13}
R_8	S15	T16	R_6

CONN. 2

R_9	A1	B2	$\overline{R/W}$
$\overline{NOOP}$	B2	C3	ED_{11}
ED_{10}	C3	D4	ED_8
ED_9	D4	E5	R_{12}
$\overline{WRI}$	E5	F6	ED_6
ED_7	F6	G7	ED_4
ED_5	H7	J8	CC
$\overline{WR}$	J8	K9	R_{14}
ED_1	K9	L10	R_4
ED_0	L10	M11	R_5
ED_2	M11	N12	ED_3
R_{11}	N12	P13	R_2
R_3	P13	R14	R_1
R_0	R14	S15	R_{10}
R_{15}	S15	T16	R_7

CONN. 3

$\overline{KR}$	A1	B2	$\overline{ACU}$
$\overline{STI}$	B2	C3	BRH
m_3	C3	D4	RM_3
RM_2	D4	E5	m_2
m_0	E5	F6	RM_1
m_1	F6	G7	RM_0
$\overline{STO}$	H7	J8	BRL
C_0	J8	K9	C_1
m_7	K9	L10	RM_5
RM_7	L10	M11	m_5
m_6	M11	N12	RM_4
RM_6	N12	P13	m_4
	P13	R14	±0V
	R14	S15	+5VR

COMP SIDE — WIRING SIDE

D 6297-1

COMPONENT LAYOUT
6297-R1

L10 L9 L8 L7 L6 L5 L4 L3 L2 L1

L22 L21 L20 L19 L18 L17 L16 L15 L14 L13 L12

L33 L32 L31 L30 L29 L28 L27 L26 L25 L24 XTAL

S,R,P,N,M,L,K,J,H,F,E,D,C,B,A,

S,R,P,N,M,L,K,J,H,F,E,D,C,B,A,

S,R,P,N,M,L,K,J,H,F,E,D,C,B,A,

LOCATION	TYPE	W.L. PART No.	TERM. NO ±0V	TERM. NO V_{CC} +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	376-0096	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 ½ W	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

NO.	REVISION	BY	DATE
1	REVISED PER ECN #3729 APP'D TJH	TJH	8-3-73
2	REVISED PER RFA #0355 APP'D	TJH	8-29-73
3	REVISED PER ECN #3811 APP'D TJH	TJH	10-23-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 730 | DRAWN DB 5-8-73 APP. TJH 27-7-73 | CHECKED EMM APP.

TITLE SCHEMATIC LOGIBLOC 6297 MICRO PROCESSOR

SHT OF | DWG. NO. D 6297-1 | REV. 3

DO NOT SCALE

EXTERNAL JUMPER

XTAL 10 MHz

L2 L14

L10

L30 L31 L28 L29 L26 L27

CONN 1

+5VR	A 1	B 2	+5VR
10V	C 3	D 4	$\overline{CAN}$
$\overline{t_{6,7}}$	E 5	F 6	ADI
$\overline{t_{01}}$	G 7	H 8	$\overline{STW}$
EJ_2	J 9	K 10	$\overline{ADI}$
$\overline{CAAD_3}$	L 11	M 12	EJ_1
$\overline{t_4}$	N 13	P 14	t_4
$\overline{CAX}$	R 15	S 16	$\overline{CAAD_1}$
$\overline{BLC}$	T 17	U 18	$\overline{CAAD_2}$
	V 19	W 20	$\overline{BC}$
$\overline{ERO}$	X 21	Y 22	$\overline{BR}$
$\overline{BRI}$	Z 23	a 24	R13
R8	b 25	c 26	R6

CONN 2

R9	A 1	B 2	$\overline{R/W}$
$\overline{NOOP}$	C 3	D 4	ED11
ED10	E 5	F 6	ED8
ED9	H 7	J 8	R12
$\overline{NRI}$	K 9	L 10	ED6
ED7	M 11	N 12	ED4
ED5	P 13	R 14	CC
$\overline{WR}$	S 15	T 16	R10
ED1	U 17	V 18	R4
ED0	W 19	X 20	R5
ED2	Y 21	Z 22	ED3
R11	a 23	b 24	R2
R3	c 25	d 26	R1
R0	e 27	f 28	R10
R15	g 29	h 30	R7

CONN 3

$\overline{KR}$	A 1	B 2	$\overline{ACU}$
$\overline{STI}$	C 3	D 4	BRH
m_3	E 5	F 6	RM_3
RM_2	H 7	J 8	m_2
m_0	K 9	L 10	RM_1
m_1	M 11	N 12	RM_0
$\overline{STO}$	P 13	R 14	BRL
m_7	S 15	T 16	RM_5
RM_7	U 17	V 18	m_5
m_6	W 19	X 20	RM_4
RM_6	Y 21	Z 22	m_4
	a 23	b 24	10V
	c 25	d 26	+5VR

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

COMP SIDE — WIRING SIDE

D 6297-1

COMPONENT LAYOUT
6297-1 R3

LOCATION	TYPE	W.L. PART No.	TERM. No. 10V	TERM. No. V_{CC} +5VR	QTY
L1, 4	SN7400N	376-0003	7	14	2
L2, 14	SN74174N	376-0037	8	16	2
L3	SN7420N	376-0012	7	14	1
L5	SN7404N	376-0004	7	14	1
L6, 13, 20, 24	SN74O6N	376-0310	7	14	4
L7, 12	SN7408N	376-0008	7	14	2
L8, 10	74S51	376-0076	8	16	2
L9, 15	SN7432N	376-0081	7	14	2
L11, 22, 23, 31, 32, 33	SN74153N	376-0052	8	16	6
L21, 25	SN7408N	376-0093	7	14	2
L16, 17, 18	SN74175N	376-0055	8	16	3

COMP.	SIZE/TYPE	W.L. PART NO.	QTY
R1	150Ω VSIP	330-1019	1
R2	1.5K VSIP	330-1518	1
L7, 9	[illegible] VSIP	330-1623	2
R5, 7	4.7K VSIP	330-3047	2
R4	1.5K 1/4 W	330-2575	1
C1, 12	15 MFD 35V TANT	300-4022	2
C2, 3, 5, 6, 7, 9, 10, 11	.05 MF CER	300-1900	10
L7	[illegible]	330-3029	1
XTAL	10 MHz	321-0008	1

REVISION					
1	[illegible]				
2	REVISED PER ECN # 4074 APP'D				
3	REVISED PER ECN # 4074 APP'D				
4	REVISED PER ECN # 4074. APP'D				ME 4-8-74

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO 733 | DRAWN | CHECKED | APP.

TITLE SCHEMATIC LOGIC LOG 6297 MICRO PROCESSOR

SHT 1 OF 1 | DWG NO D 6297-10 | REV 4

DO NOT SCALE

EXTERNAL JUMPER

XTAL 10 MHz

+10V C12

+5VR

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

CONN. 1

+5VR	A	1	
	B	2	
I.OV —	G	3	
	D	4	$\overline{CAN}$
$t_{2,1}$	E	5	ADI
t_{01}	F	6	$\overline{STW}$
EJ_2	H	7	$\overline{ADI}$
$\overline{CAAD_3}$	J	8	EJ_1
$\overline{t_4}$	K	9	t_4
$\overline{CAX}$	L	10	$\overline{CAAD_1}$
$\overline{BLC}$	M	11	$\overline{CAAD_2}$
	N	12	$\overline{BC}$
$\overline{BR_0}$	P	13	$\overline{BR}$
$\overline{BR_1}$	R	14	R_{13}
R_8	S	15	R_6

CONN. 2

R_9	A	1	$\overline{R/W}$
$\overline{NOOP}$	B	2	ED_{11}
ED_{10}	C	3	ED_8
ED_2	D	4	R_{12}
$\overline{WRI}$	E	5	ED_6
ED_7	F	6	ED_4
ED_5	H	7	CC
$\overline{WR}$	J	8	R_{14}
ED_1	K	9	R_4
ED_0	L	10	R_5
ED_2	M	11	ED_3
R_{11}	N	12	R_2
R_3	P	13	R_1
R_0	R	14	R_{10}
R_{15}	S	15	R_7

CONN. 3

$\overline{KR}$	A	1	$\overline{ACU}$
$\overline{STI}$	B	2	BRH
m_3	C	3	RM_3
RM_2	D	4	m_2
m_0	E	5	RM_1
m_1	F	6	RM_0
$\overline{STO}$	H	7	BRL
C_0	J	8	C_1
m_7	K	9	RM_5
RM_7	L	10	m_5
m_6	M	11	RM_4
RM_6	N	12	m_4
	P	13	I.OV
	R	14	+5VR
	S	15	

COMP. SIDE — WIRING SIDE

COMPONENT LAYOUT

6297-2 R3

L10 L9 L8 L7 L6 L5 L4 L3 L2 L1

L22 L21 L20 L19 L18 L17 L16 L15 L14 L13 L12

L33 L32 L31 L30 L29 L28 L27 L26 L25 L24 XTAL

S,R,P,N,M,L,K,J,H,F,E,D,C,B,A,

LOCATION	TYPE	W.L. PART No.	TERM. IN ECV	TERM. IN V_{CC} PWR	QTY
L1, 4	SN7411N	376-0003	7	14	2
L2, 14	SN74175N	376-0011	8	16	2
L3	SN7420N	376-0016	7	14	1
L5	SN7430N	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	376-0073	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	820Ω ¼W 5%	330-2018	1
R2	1.82K ¼W 5%	330-3018	1
R3, 4	330Ω ¼W 5%	330-2022	2
R5, 8	1.5K ¼W 5%	330-3047	3
R6	100Ω ¼W 5%	330-2010	1
R7	1.5K ½W 5%	330-3525	1
C1, 12	15MF 25V TANT	300-4022	2
C2, 3, 4, 5, 6, 7, 8, 9, 10, 11	.05MF CER	300-1900	10
C13	22MF 25V TANT	300-4020	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

REV	BY	CHK	DATE	MF
0				
1	B-3-73		10-23-73	4/8/74
2	B-24-73			
3				
4				

REV	REVISION
1	REVISED PER ECN #3729 APP'D
2	REVISED PER RFA #0356 APP'D
3	REVISED PER ECN #3871 APP'D
4	REVISED PER ECN #4074 APP'D

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 730 — DRAWN — CHECKED — APP. — APP.

TITLE SCHEMATIC LOGIBLOC 6297-2 MICRO PROCESSOR

SHT 1 OF 1 — DWG NO. D 6297-11 — REV 4

1-7-6297 D

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DO NOT SCALE

HOLE LEGEND

DRILLED OR PUNCHED HOLE TOLERANCE:	HOLE DIA.	TOL.
	.0135 to .125	±.002
	.126 to .250	±.003
	.251 to .500	±.005

IDENT.	DESCRIPTION	QTY.
A		

L34 SELECT 3B 3A 4B 4A 2B 2A 1B 1A ENABLE 15 ±0V

L33 SELECT 3B 3A 4B 4A 2B 2A 1B 1A ENABLE 16 ±0V

L25 L24 L23 L22 L21 L20 L19 L18 R/W CE A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 DIN DOUT

L32 CLOCK D C B A LOAD/SHIFT 9 ±0V

L31 CLOCK D C B A LOAD/SHIFT 9 ±0V

L28 L29 L30 ED11 ED10 ED9 ED8 ED7 ED6 ED5 ED4 ED3 ED2 ED1 ED0 T67 CLK LOAD/SHIFT

L35 CAPM R3 C17 ±0V

L26 L27 L16 L17 FM WR FMT KEW RS RG +5VR

L10 L9 BRC BR BLC T4 CARRY OUTPUT ENA T ENA P CLR CLK LOAD

L1 L5 L2 L6 L3 L7 L4 L8 CS A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 Vcc PROG VPP VCC VDD D0 D1 D2 D3 D4 D5 D6 D7 +5VR -10.5V

L13 L12 L14 L15 D C B A CLK LOAD/SHIFT ±0V

L36 CK1 CK2 1A 1B 2A 2B CNRLG MCC CASTO DKST RSTR

CONN. 1

-9V	A1	B1	
+5VR	A2	B2	
±0V	A3	B3	
BR	D4	E4	FMT
ED11	E5	F5	MSW
ED10	F6	E6	
ED9	N7	M7	
ED8	J8	K8	
BLC	K9	L9	ED0
BR1	L10	M10	BR0
T67	M11	N11	ED3
ED7	N12	P12	ED2
ED6	P13	R13	ED1
ED5	R14	P14	T4
ED4	S14	R14	R8

CONN. 2

M1	A1	B1	R9
M3	B2	C2	R10
M2	C3	D3	R11
to1	D4	E4	M0
R12	E5	F5	R13
R15	F6	E6	R14
M4	N7	M7	M5
M7	J8	K8	M6
R6	K9	L9	FCMT
R5	L10	M10	R4
C3	M11	N11	R7
A3	N12	P12	A2
A1	P13	R13	C2
R0	R14	P14	R1
C1	S14	R14	A0

CONN 3

C0	A1	B1	R3
C7	B2	C2	R2
A3	C3	D3	A4
A6	D4	E4	C4
C6	E5	F5	RDG
A5	F6	E6	FM
C5	M7	N7	
WR	J8	K8	DRST
T3	K9	L9	MCC
R/W	L10	M10	CNTRLG
CAPM	M11	N11	CASTO
FMT	N12	P12	RSTR
	P13	R13	±0V
	R14	P14	+5VR
	S15	R15	

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

COMP. SIDE WIRING SIDE

COMPONENT	SIZE/TYPE	W.L. PART No.	QTY
R1	15K ¼W	330-4015	1
R2	12K ¼W	330-4012	1
R3	100Ω ¼W	330-2010	1
R4,5,6	2.2K ½W	330-3022	3
C1	22MF 15VTANT	300-4019	1
C2	.01MF MYLAR	300-2110	1
C3	.001MF MYLAR	300-2010	1
C4,15	15MF20VTANT	300-4022	2
C5,6,7,8,9,10, 11,12,13,14	.01MF CER	300-1903	10
D1, 2	DIODE SIL	380-1001	2
	16 PIN CONN.	376-3002	8
	24 PIN CONN.	376-3003	8
C16	33MF15VTANT	300-4019	1
C17	.002MF CER	300-1913	1
R7, R8	2.7K ½W	330-3027	2

SOFTWARE LOADING VARIATION CHART

VARIATION	-10	-11	-12	-13	-14	-15	-16	-17	-18	-19
SEE PC BD LAYOUT	630-1	630-2	630-3	730-1	730-2	730-3	2230-1	2230-2	2230-3	640-1
L3	378-0188	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 PC 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	376-0279R3	378-0283R5	378-0356		
L7	378-0232R1	378-0215	378-0221	378-0236R5	378-0240R5	378-0280R3	378-0284R5	378-0357		
L4	378-0233R3	378-0216	378-0222	378-0237R5	378-0241R5	378-0281R2	378-0285R4	378-0358		
L8	378-0234R3	378-0217R1	378-0223R1	378-0238R5	378-0242R5	378-0282A2	378-0286R4	378-0359		
L1	-----	378-0218R2	378-0224R2	-----	-----	-----	-----	378-0360		
L5	-----	378-0219R2	378-0225R2	-----	-----	-----	-----	378-0361		
L2	-----	-----	-----	-----	-----	-----	-----	-----		
L6	-----	-----	-----	-----	-----	-----	-----	-----		

COMPONENT LAYOUT

6298 - R3

L8 L7 L6 L5 L4 L3 L2 L1 L17 L16 L15 L14 L13 L12 L11 L10 L9 L27 L26 L25 L24 L23 L22 L21 L20 L19 L18 L37 L36 L35 L34 L33 L32 L31 L30 L29 L28

SRPNMLKJHFEDCBA 33333333333333 SRPNMLKJHFEDCBA 33333333333333 SRPNMLKJHFEDCBA 33333333333333

LOCATION	TYPE	W.L. PART No.	TERM. No. ±0V	TERM. No. +5VR	QTY
L1, 3, 4, 5, 7, 8	1702A	377-0009	—	12	
L9, 10, 11	SN74161N/3316	376-0094	8	16	3
L12, 13, 14, 15, 28, 29, 36, 37, 38	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	SN7409N	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.

REV	REVISION	BY	DATE	APPROVED
1	PER ECN 5737 CAPACITOR			
2	REVISED PER ECN 5885 ADDED			
3	REVISED PER ECN 6000 ADDED		11-7-73	
4	REVISED PER ECN 6104 ADDED		1-14-74	
5	REVISED PER ECN 6104 ADDED		2-7-74	
6	REVISED PER ECN 6104 ADDED		6-25-74	
7	REVISED PER ECN 6324 ADDED		6-26-74	
8	REVISED PER ECN 6355 ADDED		7-5-74	
9	REVISED PER ECN 6355 ADDED		8-7-74	
10	REVISED PER ECN 6355 ADDED		9-24-74	
11	REVISED PER ECN 6355 ADDED		10-24-74	
12	REVISED PER ECN 6447 ADDED		11-15-74	
13	REVISED PER ECN 6447 ADDED		12-4-74	
14	REVISED PER ECN 6447 ADDED		12-20-74	
15	REVISED PER ECN 6447 ADDED		1-6-75	
16	REVISED PER ECN 6447 ADDED		1-15-75	
17	REVISED PER ECN 6447 ADDED		2-4-75	
18	REVISED PER ECN 6447 ADDED		2-21-75	

WANG PART NO.	ITEM	QTY.	NAME
FIRST USED ON	ASSY USED ON		
			WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.
			MODEL NO. SEE NOTE #1
			SEE ENGRG SPECIFICATIONS
			TOL. EX. AS NOTED .XX ± .010 FRAC ± 1/64 .XXX ± .005 ANG. ± 1/30' FINISH √

MATERIAL	DESCRIPTION
BY	DATE
DWN [illegible]	1-29-73
CHK. [illegible]	
E.C. CONTROL	
FINISH	
SCALE	SHT. 2 OF 2

APPROVED BY: ENGR J.H. 2-7-73; MFG ENGR; M ENGR

TITLE: SCHEMATIC, LOGIBLOC 6298 MICRO-PROCESSOR RAM, ROM MEMORY

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.
216-6298	E	6298	19

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DO NOT SCALE

EXTERNAL

FORMAT P.B

KEY SWITCH

±0V — FMT — FMT

FD RD

COMPONENT LAYOUT

62.99 - R1

LOCATION	TYPE	WL. PART NO	TERM. NO ±0V	TERM. NO +5VR	QTY
L1,2,5,7A,13,40	SN7473N	376-0005	11	4	5
L3,7,29,37	SN7409N	376-0010	7	14	5
L4	SN7486N	376-0036	7	14	1
L6,9,11,26,30	SN7400N	376-0002	7	14	5
L8,23,25	SN74176N	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
L24	SN7404N	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	376-0009	7	14	1

COMP.	SIZE/TYPE	WL. PART NO.	QTY
R1	180 Ω ½W	330-2018	1
R2	1.8K ½W	330-3018	1
R3,4	220 Ω ½W	330-2022	2
R5,6,8,11	10K ½W	330-4010	4
R7	4.7K ½W	330-3097	1
R9,10	2.2K ½W	330-3022	2
C14	47 pF MICA	300-1047	1
C1, 13	15 MFD TANT	300-4022	2
C2,3,4,5,6,7,8,9,10,11,12	.01 MF CER.	300-1903	11
XTAL	6.25 MHz	321-0014	1

CONN. 1

$\overline{MC_6}$	1	$\overline{MC_2}$
+5VR	2	
±0V	3	
$\overline{MC_5}$	4	$\overline{MC_1}$
$\overline{MC_4}$	5	$\overline{MC_3}$
$\overline{MC_3}$	6	MCC
C_7	7	$\overline{MC_0}$
M_{10}	8	M_7
C_{10}	9	C_7
M_{12}	10	M_1
C_{12}	11	C_1
M_{13}	12	M_7
C_{13}	13	M_2
C_6	14	C_2
	15	A_0

CONN. 2

A_7	1	A_2
A_6	2	A_1
A_5	3	A_3
A_4	4	$\overline{RD}$
$\overline{RDDA}$	5	DISL
$\overline{BSY}$	6	HESL
$\overline{½TA}$	7	$\overline{RD}$
$\overline{5T_0}$	8	FOMT
WORD RDY	9	KC_{15}
$\overline{FOMT}$	10	KC_{25}
$\overline{ERROR}$	11	KC_{05}
ERROR	12	$\overline{AD33}$
KC_{35}	13	$\overline{WTCK}$
$\overline{LAI}$	14	$\overline{SI}$
$\overline{PM}$	15	$\overline{FR}$

CONN. 3

$\overline{STI}$	1	$\overline{STW}$
CNTRIa	2	$\overline{ACU}$
DC J_1	3	$\overline{CNTRI}$
ED_0	4	t_4
$\overline{T_{01}}$	5	ESG
ED_7	6	WTG
RCLK	7	RDG
STW	8	R_3
$\overline{WCD}$	9	R_2
R_7	10	R_1
ADI	11	R_0
$\overline{ADI}$	12	±0V
	13	+5VR
DC J_2	14	

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

COMP. SIDE — WIRING SIDE

1-66-29 E

REVISION	WANG PART NO	ITEM	QTY	NAME
	FIRST USED ON / ASSY USED ON			WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.

MATERIAL — MODEL NO. 730 — SEE ENGNG SPECIFICATIONS

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. [illegible]	4-10-72	E ENGR	
CHK. [illegible]		M ENGR	7-17-72
C C CONTROL		MFG ENGR	

TITLE: SCHEMATIC LOGIC 6299 DISK CONTROL

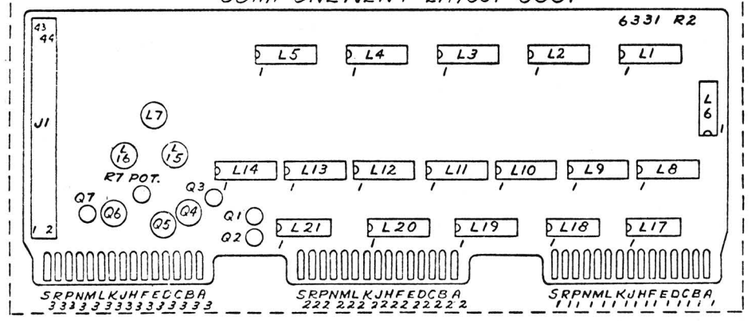
510-6299 — E — 6299-1

WANG PART NUMBER — SIZE — DRAWING NUMBER — REV.

COMPONENT	SIZE, TYPE	W.L. NO.	QTY.
R1	2.2K ¼W	330-3022	1
R2	2.5K 2%	333-0014	1
R3	22K ¼W	330-4022	1
R4	100K ¼W	330-5010	1
R5,16,17,18	4.7K ¼W	330-3047	4
R6	47K ¼W	330-4047	1
R7	25K POT.	336-1007	1
R8	330K ¼W	330-5033	1
R9	10K ¼W	330-4010	1
R10	18K ¼W	330-4018	1
R11	6.8K ¼W	330-3068	1
R12	560Ω ¼W	330-1056	1
R13	6.80Ω ¼W	330-2068	1
R14	56Ω ¼W	330-1056	1
R15	.25Ω 3W	334-0017	1
R19,23 TO 101	1K ¼W	330-3010	80
R20	3.3K ¼W	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

COMPONENT LAYOUT 6331



I.C. LOCATION	TYPE	W.L. NO.	TERM FOR ±0V	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

NO.	REVISION	BY	DATE
1	REVISED: PER E.C. #3948 ADD'D.	JF	12/13/73
2	REVISED: PER E.C. #4149 ADD'D. CAP.	JF	4/23/74

DO NOT SCALE

EPN 2200 CABLE THERM. PRINT HEAD

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

CONN. 1: +5VR, ±0V, B2, CLL, B4, B3, B1, BI7, B5

CONN. 2: CU, UP3, UP2, UP1, L.F. DELAY, L.F. RESET, P.O.P., PRINT

CONN. 3: POT1, +26.6VH, +12VR, -12VR, POT2, HC, POT3, +13VR, +13VRS, 13V(GND), ±0V, +5VR, +17V

COMP. SIDE — WIRING SIDE

WANG LABORATORIES INC.	TEWKSBURY, MASS.
MODEL NO. 2200-1	DRAWN F.S.S. 10-9-73 APP. 13/14/73
CHECKED	APP.
TITLE	SCHEMATIC LOGIBLOC #6331 THERMAL HEAD DRIVER
SHT 1 OF 1	DWG. NO. D 6331-1 REV. 2

DO NOT SCALE

UP (10₂) DP (B₂) LFF (S₂) CLP (A₃) POP (14₃) LC (P₂) LBI (B₃) CRFF (9₂) LF RESET (12) ±5VR (B₁) ±0V (C₁) CM1 (4₁) CM2 (5₁) CM3 (6₁) MOTOR GND (D₁) AC (D₃) ACP (C₃) PD (5₃) RBC (P₂) PRINT (M₂) LF DELAY (2₄) HS (7₁) LM1 (13₁) LM2 (15₁) LM3 (11₁) LM4 (9₁) Q0 (4₃) Q1 (2₃) Q3 (3₃) Q2 (1₃)

C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20

R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27

L1 L2 L3,22 L4,13,18 L5 L6,12,20 L7,8,14 L9,16 L10 L11 L15,19 L17 L21

D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16

Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8

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

SEE NOTE 2 SEE NOTE 1

NOTE:-
1. DO NOT LOAD
2. LOAD JUMPER

COMPONENT LAYOUT

G332 R2

L8 L7 L9 L5 L4 L3 L2 L1
L15 L14 L13 L12 L11 L10 L9
L22 L21 L20 L19 L18 L17 L16
Q8 Q7 Q6 Q5 Q4 Q3 Q2 Q1

SRPNMLKJHFEDCBA3
SRPNMLKJHFEDCBA2
SRPNMLKJHFEDCBA1

LOCATION	TYPE	W.L. PART No.	TERM. NO. ±0V	TERM. NO. Vcc +5VR	QTY
L1	3768	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	376-0109	8	16	3
L9,16	8T44	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	380-9000	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	33K 5% 1/4W	330-4040	1
C1,8	220PF CER	300-1220	2
C2	5.6MF 35V TANT	300-4017	1
C3,4,6,10	560PF CER	300-1560	4
C5	2.2 MF 35V 5%	300-4027	1
C7	.22 MF 35V TANT	300-4006	1
C9	6.8 MF 35V TANT	300-4038	1
C11,19	15 MF 20V TANT	300-4022	2
C12,13,14,15,16,17,18	.02 MF CER	300-1904	7
C20	82 PF	300-1082	1

CONN. 1

+5VR	A 1	
±0V	B 2	
MOTOR GND	C 3	CM1
MOTOR GND	D 4	CM2
	E 5	CM3
	F 6	HS
	H 7	LM4
	J 8	
	K 9	LM3
	L 10	
	M 11	LM1
	N 12	
	P 13	LM2
	R 14	
	S 15	

CONN. 2

	A 1	LF RESET
	B 2	LF DELAY
	C 3	C1
	D 4	C3
	E 5	
	F 6	
	H 7	
	J 8	DP
	K 9	CRFF
	L 10	UP
	M 11	
PRINT	N 12	
	P 13	
LC	R 14	POP
RBC	S 15	
LFF		

CONN. 3

CLP	A 1	Q2
BI7	B 2	Q1
ACP	C 3	Q3
AC	D 4	Q0
	E 5	PD
	F 6	
	H 7	
	J 8	
	K 9	
	L 10	
	M 11	
	N 12	
	P 13	±0V
	R 14	+5VR
	S 15	

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

COMP. SIDE — WIRING SIDE

LTR	BY	DATE
1	REVISED PER ECN 414-2 ADD'D -10-	M.F 5-7-74

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.	
741	VC-5-73		10-26-73
	CHECKED	APP.	

TITLE SCHEMATIC, LOGIBLOC 6332
MOTOR DRIVE

SHT OF | DWG. NO. D 6332-1 | REV. 1

D 6332-1

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

Q0	A 1	
Q1	B 2	
Q2	C 3	
Q3	D 4	
D1	E 5	
D2	F 6	
	H 7	
	J 8	
	K 9	
	L 10	D3
	M 11	D4
CLK	N 12	
	P 13	±0V
	R 14	+5VR
	S 15	

COMP. SIDE — WIRING SIDE

COMPONENT LAYOUT 6333

6333 R0

SRPNMLKJHFEDCBA
333333333333333

SRPNMLKJHFEDCBA
222222222222222

SRPNMLKJHFEDCBA
111111111111111

REVISION	BY	DATE
1 REVISED PER E.C.O. 5144		12/5/73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	DATE	APP.	DATE
741/22-41	F.S.S.	10-15-73		10-24-73
	CHECKED		APP.	

TITLE: SCHEMATIC LOGIBLOC #6333 MOTOR TIMING

SHT 1 OF 1 — DWG NO. D 6333-1 — REV 1

DO NOT SCALE

MODEL 741 LOADING

LOC.	TYPE	W. L. No.	TERM. No ±0V	TERM. No Vcc+5VR	QTY
L1	1702				1
L2, 11	SN74L38N	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		7	14	1
L8, 20	SN7400N	376-0002	7	14	2
L10, 10A, 14	SN7407N	376-0056	7	14	2
L12, 25	SN74107N	376-0003	7	14	2
L15	SN74121N	376-0008	8	16	1
L16	9330	376-0022	7	14	1
L17	9335	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	SN74L38N	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	9330	376-0022	1
L17	9335	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	SN74LON	376-0003	1
L27	9316	376-0094	1

COMP.	SIZE/TYPE		W. L. NO	QTY
R1,2,3,4,5,6,45,47	330Ω	¼W	330-2033	8
R7, 8, 9, 10, 11, 12, 44, 46, 51, 52	220Ω	¼W	330-2022	10
R13,14,15,16,17,18, 20,21,22,23,24,25, 26,42,60,62	2.2K	⅛W	330-3022	16
R19	33Ω	1W	332-1033	1
R27,43,53,54	1K	¼W	330-3010	1
R28,29,30,31, 32,33,34,35,36	4.7K	¼W	330-3047	9
R37,38,39,40,41	6.8K	¼W	330-3068	5
R48, 49, 57	22K	¼W	330-4023	3
R50	180Ω	½W	330-2018	1
R55, 56	10K	¼W	330-4010	1
R58	47K	¼W	330-4047	1
R59, 61, 63	1.8K	¼W	330-3018	3
C1	.01 mF	CER	300-1703	1
C2	470PF	CER	300-1471	1
C3	150 PF	CER	300-1151	1
C4	68 PF	CER	300-1068	1
C5	.05 mF	CER	300-1700	1
C6, 9, 16, 18, 20	15 mF 20V	TANT	300-4022	5
C7	50 PF	CER	300-1560	1
C8	47PF	CER	300-1047	1
C10, 11, 12, 13, 14, 15, 17, 19	.02 MF	CER	308-1904	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

CONN 1

+5VR	A 1	
	B 2	
IOV	C 3	
±0V	D 4	
±0V	E 5	
DATA3	F 6	
DATA2	H 7	
DATA1	J 8	
DATA4	K 9	
DATA5	L 10	
DATA6	M 11	
DATA7	N 12	
DATA/STROBE	P 13	
ACKNLG	R 14	
READY/BUSY	S 15	

CONN. 2

LSF	A 1	
LSF	B 2	
	C 3	
	D 4	
	E 5	
UP1	F 6	
UP3	H 7	
UP2	J 8	
CU	K 9	
CLL	L 10	
B1	M 11	
B2	N 12	
B3	P 13	
B5	R 14	
B4	S 15	
-12V		

CONN. 3

+12V	A 1	
	B 2	
LC	C 3	
CRFF	D 4	
LFF	E 5	
BSFF	F 6	
MR	H 7	
CR RESET	J 8	
LF RESET	K 9	
RBC	L 10	
POP	M 11	
PFF	N 12	
AC	P 13	
PRINT	R 14	
MC	S 15	
MC		
CLK		
±0V		
+5VR		

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

COMP. SIDE — WIRING SIDE

COMPONENT LAYOUT

(741) 6334 - R2 (2241) 6334-1

REVISION	BY	DATE
REVISED PER ECN 4394 & 4397 APP'D 3-24-73		12-11-73
REVISED PER ECN 4414 APP'D 5-24-73		5-24-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	DATE	APP'D	DATE
741/2241		10-19-73		13-26-73
	CHECKED		APP.	

TITLE: SCHEMATIC LOGIBLOC 6334 INPUT DECODER

SHT OF — D.W.G. NO. D 6334-1 — REV 2

DO NOT SCALE

MODEL 2200 INPUT CABLE 220-2636-9

DATA/STROBE	1
DATA 1	2
DATA 2	3
DATA 3	4
DATA 4	5
DATA 5	6
DATA 6	7
DATA 7	8
ACK/NLG	10
READY/BUSY	11
CH. GND	17
GND 1	20
GND 2	21
GND 3	22
GND 4	23
GND 5	24
GND 6	25
GND 7	26
GND 8	27
GND 9	29
GND 10	28
GND 11	19

MODEL 700 INPUT CABLE 220-2624-9

DATA 1	1
DATA 2	2
DATA 3	3
DATA 4	4
DATA 5	5
DATA 6	6
STROBE	7
READY/BUSY	8
GND 1	13
GND 2	14
GND 3	15
GND 4	16
GND 5	17
GND 6	18
GND 7	19
GND 8	20
CH. GND	23

220-0121 CABLE (REF)

270-3036 HARNESS (REF)

CONN. 1 CONN. 2 CONN. 3

SOLDER POINTS

GND 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11

EXTERNAL POWER LAMP

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 MF 25V	300-3055	2
C2, 7, 9	.1 MF 50V	300-1930	3
C3	90,000 MF 12V	300-3044	REF
C4	.05 MF CER	300-1900	1
C6	4000 MF 50V	300-3034	REF
C8	2600 MF 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

COMPONENT LAYOUT

6335 - R1

C3 C6 C8

CONN. 3 CONN. 2 CONN. 1

DATA/STROBE ACK NLG READY/BUSY

GND 1

REV	DR	BY	REVISION
1	12-11-73		REVISED PER ECN 3966 APP'D
2	12-18-73		PER RPA #0376 ADDED CABLE ID. APP'D
3	3-22-74		REVISED PER ECN 4136 APP'D

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 2241 / 741 | DRAWN | CHECKED | APP'D | 11-11-73 | 11-28-73

TITLE SCHEMATIC, MOTHER BOARD 6335

SHT OF | DWG. NO. D 6335-1 | REV

DO NOT SCALE

SEARCH (A1) BS (K1) BS (H1) ±0V

L27 LOAD DA DB DC DD CLR; QA QB QC QD

L26 A B C D; 0 1 2 3 4 5 6 7 8 9; t0 t1 t2 t3 t4 t5 t6 t7 t8 t9

D1 / T9

XINC (K2) FNSH (E3) YINC (H3)

L35

L10 CP R0(1) R0(2) A B C D

L21 R0(1) R0(2) CP A CP B C D

L33 CLR1 CLR2 CLK1 Q1 CLK2 Q2

L11 R0(1) R0(2) CP A CP B C D

L22 R0(1) R0(2) CP A CP B C D

L34 CLR1 CLR2 CLK1 Q1 CLK2 Q2

X1 X2 X3 X4 X5 X6 X7 X8 X9 X10

Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8 Y9 Y10

L7 L7 L7 L7 L18 L18 L18 L18 L31 L31

t9 t8 t7 t6 t5 t4 t3 t2 t1 t0

L1 L1 L1 L1 L12 L12 L12 L12 L23 L23

L2 L2 L2 L2 L13 L13 L13 L13

P1 STCT

VFRQ (C2)

L3 L3 L3 L3 L14 L14 L14 L14 L24 L24 L30 t9

L4 L4 L4 L4 L15 L15 L15 L15 L24 L24

CLK Q L5 PS; CLK Q̄ L5 PS; CLK Q̄ L16 PS; CLK Q̄ L16 PS; CLK Q̄ L29 PS; CLK Q̄ L28 PS; CLK Q̄ L28 PS; CLK Q̄ L25 PS; CLK Q̄ L25 PS

MCK (D2)

PSB (M1)

MOVE (E1)

C1 C2 C3 C4 C5 C6 C7 C8 C9 C10

L6 L6 L6 L6 L6 L6 L17 L17 L17 L17

X1 X2 X3 X4 X5 X6 X7 X8 X9 X10

L8 L8 L8 L8 L19 L19 L19 L19 L32 L32

E2 XPUS

Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8 Y9 Y10

L9 L9 L9 L9 L20 L20 L20 L20 L32 L32

H2 YPUS

±0V (C1) C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 (13) ±0V

+5VR (B1) (14) +5VR

CONN.1

SEARCH	A	1
+5VR	B	2
±0V	C	3
T9	D	4
MOVE	E	5
	F	6
BS	H	7
	J	8
BS	K	9
	L	10
PSB	M	11
	N	12
STCT	P	13
	R	14
	S	15

CONN.2

	A	1
	B	2
VFRQ	C	3
MCK	D	4
XPUS	E	5
	F	6
YPUS	H	7
	J	8
XINC	K	9
	L	10
	M	11
	N	12
	P	13
	R	14
	S	15

CONN.3

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

COMP. SIDE — WIRING SIDE

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.
L1,7,12,18,23,31	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

COMPONENT LAYOUT 6336

6336 X0

L11 L10 L9 L8 L7 L6 L5 L4 L3 L2 L1

L22 L21 L20 L19 L18 L17 L16 L15 L14 L13 L12

L35 L34 L33 L32 L31 L30 L29 L28 L27 L26 L25 L24 L23

S R P N M L K J H F E D C B A

WANG LABORATORIES INC. TEWKSBURY, MASS.		
MODEL NO. 732	DRAWN F.S.S. 5-24-73	APP.
	CHECKED	APP. 1/13/73
TITLE: SCHEMATIC LOGIBLOC #6336 ΔX ΔY CIRCUIT		
SHT 1 OF 1	DWG. NO. D 6336-1	REV.

NO	REVISION	BY	DATE

6336-1

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	A	1
±0V	B	2
	C	3
$\overline{TKA_1}$	D	4
	E	5
	F	6
$\overline{TKA_0}$	H	7
	J	8
FNSH	K	9
	L	10
	M	11
	N	12
$\overline{TKB_2}$	P	13
$\overline{TKB_1}$	R	14
$\overline{TKB_0}$	S	15

CONN.2

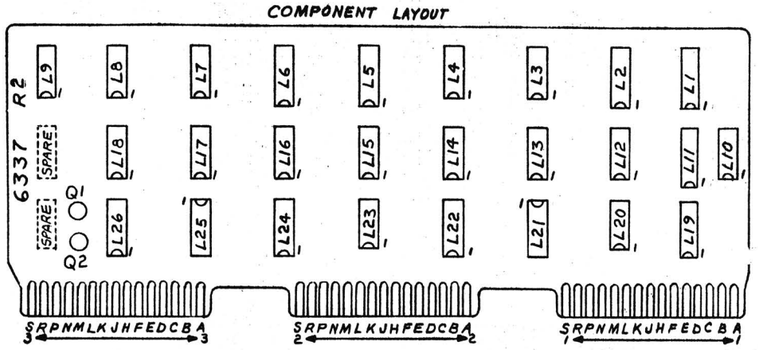
XINC	A	1
$\overline{TKB_3}$	B	2
YINC	C	3
$\overline{UX}$	D	4
$\overline{DX}$	E	5
$\overline{XPUS}$	F	6
$\overline{YPUS}$	H	7
$\overline{DY}$	J	8
$\overline{UY}$	K	9
$\overline{BS}$	L	10
$\overline{BS}$	M	11
	N	12
$\overline{COUNT}$	P	13
$\overline{CLEAR}$	R	14
$\overline{T_9}$	S	15

CONN.3

MCK	A	1
$\overline{PSB}$	B	2
$\overline{MOVE}$	C	3
$\overline{TKWS}$	D	4
	E	5
	F	6
	H	7
	J	8
$\overline{RBS}$	K	9
PENC	L	10
	M	11
$\overline{ORG}$	N	12
	P	13 (±0V)
	R	14 (+5V)
	S	15

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

COMPONENT LAYOUT



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	.0014μf,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

NO.	REVISION	BY	DATE
1	REVISED PER ECN #3796 AND SCH	GS	9-17-73

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	DATE	APP.
732	CHECKED		APP.

TITLE: SCHEMATIC LOGIBLOC # 6337
PEN CONTROL & COMMAND DECODER

SHT OF | DWG. NO. D 6337-1 | REV. 1

DO NOT SCALE

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

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 ¼W	330-4010	7
R.5, 13, 14	33K ¼W	330-4033	3
R16	9.7K ½W	330-3047	1
R4	12K ¼W	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

6343 - R0

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, S R P N M L K J H F E D C B A, S R, P, N, M, L, K, J, H, F, E, D, C, B, A,

CONN. 1

+5VR	A 1	
±0V	B 2	
LOCAL	C 3	
RBST	D 4	OPEN
TRE	E 5	CTC
TBRE	F 6	TOT
MTMSW	H 7	TC
GISN	J 8	EXC
GISNT	K 9	ELT
TOTB	L 10	
MTOT	M 11	
ERR	N 12	
AVNC	P 13	
DARY	R 14	
	S 15	

CONN. 2

TRCL	A 1	MEM
RBS	B 2	EXC
PLM	C 3	REC
MTML	D 4	SNLP
SEND	E 5	ERRL
	F 6	TBRL
	H 7	RCLP
	J 8	
	K 9	
	L 10	
	M 11	
	N 12	
	P 13	
	R 14	
PGISN	S 15	

CONN. 3

FNSH	A 1	
4FF	B 2	
RID	C 3	
SNSW	D 4	
	E 5	
PRIMT	F 6	
	H 7	
	J 8	
	K 9	
	L 10	
	M 11	
	N 12	$\overline{P_4}$
	P 13	±0V
	R 14	+5VR
	S 15	

COMA SIDE — WIRING SIDE

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

M4 — C13 C14 C15 C16 C17 C18 — B1 +5VR

M3 — C1 ±0V

NO.	BY	REVISION

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	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 ±0V	TERM NO V_{CC} +5VR	QTY
L1,5,8	SN7410N	376-0003	7	14	3
L2,10	9963	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	820PF 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
L8 L18 L25
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, F4, OPST, GLRN, GI0A0F, MEM, 4FF, FNSH, GI0B0F, GI0B3F, GI0B1F, GI0B0F, GI0B2F, PGISN

CONN.3: GI0B2F, GI0A0F, GI0A1F, SELGO, GISN, GI0A3F, MTML, GI0A2F, GI0A2F, SNSW, GI0A1F, GPRN, GPRN, ±0V, +5VR

WIRING SIDE / COMP. SIDE

REVISION

NO	DATE	BY

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.
727	6-19-73	
	CHECKED	APP. 7/1 7/6/73

TITLE SCHEMATIC LOGIBLOC 6344
MEMORY TO MEMORY AUTOMATIC CONTROL

SHT OF | DWG. NO. D 6344-1 | REV.

DO NOT SCALE

LOCATION	TYPE	W.L. PART NO.	TERM. NO IOV	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	376-0194	—	—	2
L10, 25	3602	376-0104	8	16	2
L18	SN75154N	376-0077	8	16	1
L19, 21, 22	SN7404N	376-0010	7	14	3
L23	9330	376-0022	7	14	1
L24	9363	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	200-1130	1
C20	.002 MF CER	300-1813	1
C21, 23, 25, 26	15 MF 20V TANT	300-4022	4
C24, 25	.01 MF CER	300-1903	2
D1, 2	DIODE SIL	350-1001	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 ¼W	320-1022	15
R9, 10, 11, 12, 15, 16, 17, 18, 21	4.7K ¼W	320-3047	16
R13, 14	33K ¼W	320-4033	2
R19, 20, 22, 23, 24, 25, 26, 35, 38	10K ¼W	320-4010	9
R34, 37	22K ¼W	320-4022	2
C1, 2, 3, 4, 5, 6, 7, 8, 12, 13, 14, 15, 16, 17, 18	150 PF CER	300-1150	15
C9	47PF CER	300-1047	1
C10	.005MF CER	300-1907	1
C11	56 OHM CER	300-1560	1

CONN. 1

LOCAL	A1	
+5VR	B2	
±0V	C3	
$\overline{GKA_0}$	D4	$\overline{GKA_1}$
$\overline{GKB_0}$	E5	$\overline{GKA_3}$
$\overline{GKB_1}$	F6	$\overline{GKA_2}$
$\overline{TC}$	H7	$\overline{GKB_2}$
$\overline{ERR}$	J8	$\overline{GKB_3}$
	K9	
	L10	
SI	M11	$\overline{GKA_2T}$
$\overline{SELGO}$	N12	$\overline{GKA_3T}$
REC	P13	
	R14	$\overline{GKB_2T}$
	S15	$\overline{GKB_3T}$

CONN. 2

	A1	RRC
	B2	
	C3	$\overline{GKB_0T}$
	D4	$\overline{GKB_1T}$
	E5	$\overline{GKA_1T}$
TBRE	F6	$\overline{GKA_0T}$
$\overline{TKB_3}$	H7	TRC
$\overline{TKWS}$	J8	$\overline{TKB_2}$
$\overline{MTOT}$	K9	EXC
$\overline{TBRL}$	L10	$\overline{TKA_0}$
$\overline{TKA_1}$	M11	$\overline{TKB_0}$
GI_0B_2F	N12	$\overline{TKB_1}$
GI_0A_3F	P13	GI_0B_3F
GI_0A_1F	R14	GI_0A_2F
GI_0B_1F	S15	GI_0A_0F

CONN. 3

	A1	GI_0B_0F
ELT	B2	TOTB
$\overline{TKA_1T}$	C3	$\overline{RBST}$
$\overline{TKB_3T}$	D4	$\overline{TKB_2T}$
TRE	E5	RID
DAP_3	F6	REC
$\overline{TKB_0T}$	H7	$\overline{TKA_0T}$
$\overline{TKWST}$	J8	$\overline{TKB_1T}$
PRIMT	K9	$\overline{TOTB}$
−12V	L10	DAP_{20}
DAP_2	M11	DAP_4
TRCL	N12	+12V
	P13	±0V
	R14	+5VR
$\overline{DARY}$	S15	

COMP SIDE — WIRING SIDE

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

COMPONENT LAYOUT

6345 - R1

L10 L9 L8 L7 L6 L5 L4 L3 L2 L1

L19 L18 L17 L16 L15 L14 L13 L12 L11

L27 L26 L25 L24 L23 L22 L21 L20

S R P N M L K J H F E D C B A

REVISION

NO	REVISION	BY	DATE
1	REVISED PER ECN # 3846 APP'D SKN	GS	6-29-73

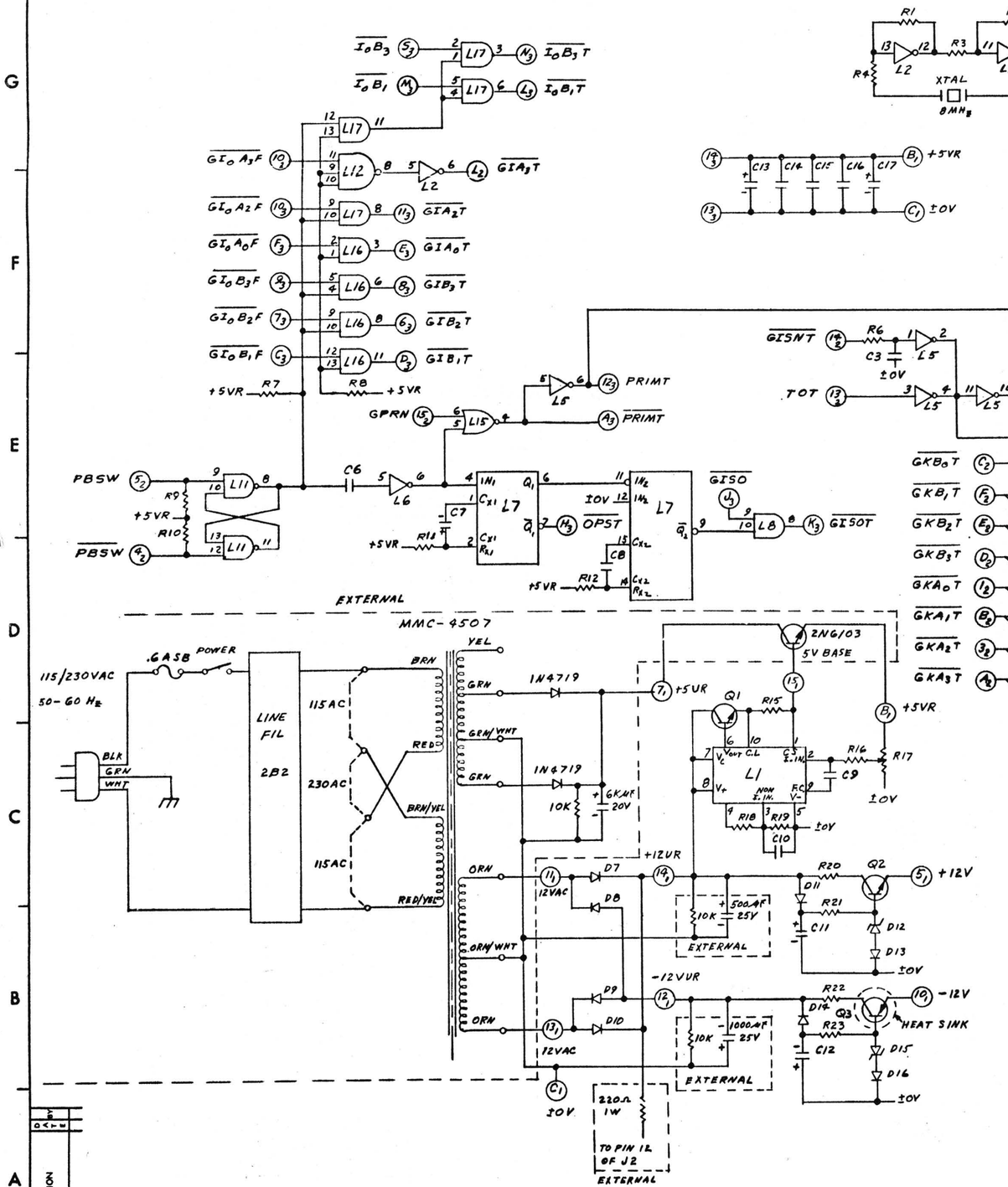
WANG LABORATORIES INC.
TEWKSBURY, MASS.

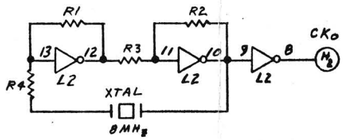
MODEL NO.	DRAWN	APP.
727	CHECKED	APP.

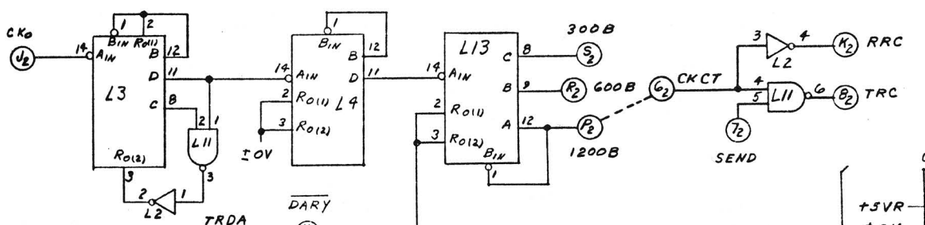
TITLE: SCHEMATIC LOGIBLOC TRAN/REC BOARD 6345

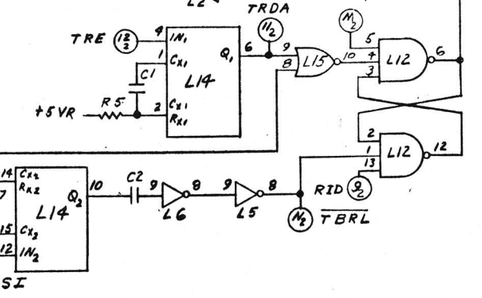
SHT OF — DWG. NO. D 6345-1 — REV. 1

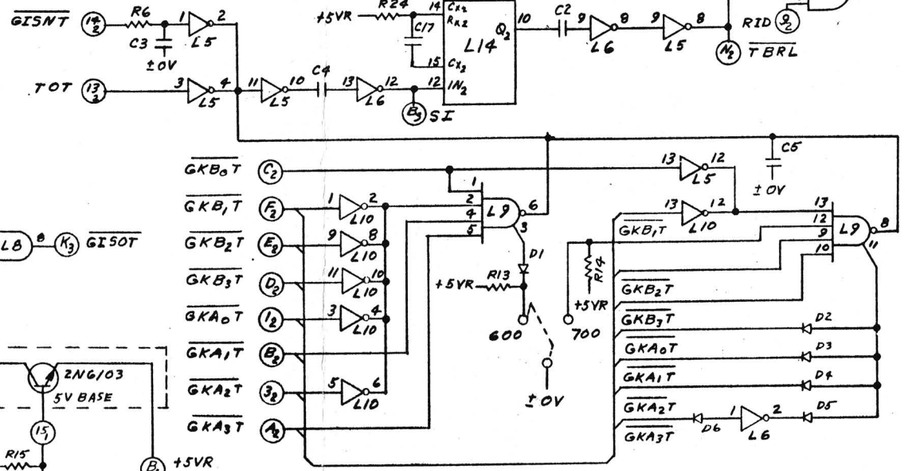
DO NOT SCALE





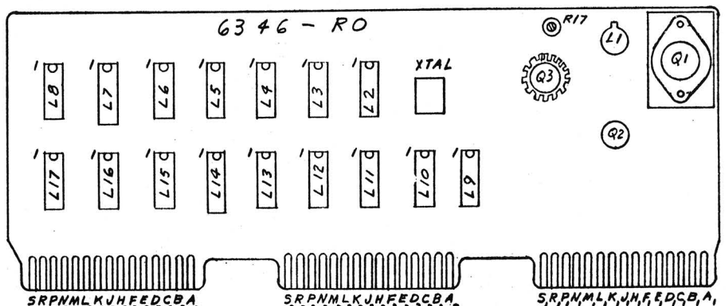






COMPONENT	SIZE/TYPE	W.L. PART No.	QTY
R1	180Ω 1/4W	330-2018	1
R2	1.8K 1/4W	330-3018	1
R3,4	220Ω 1/4W	330-2022	2
R5,9,10,13,14	10K 1/4W	330-4010	5
R6	22Ω 1/4W	330-1022	1
R7,8	1K 1/4W	330-3010	1
R11	33K 1/4W	330-4033	1
R12	27K 1/4W	330-4027	1
R15	3.3Ω 1/2W	331-0033	1
R16	470Ω 1/4W	330-2047	1
R17	1K POT	336-1001	1
R18	2.7K 1/4W	330-3027	1
R19	4.7K 1/4W	330-3047	1
R20,22	10Ω 1/2W	331-1010	2
R21,23	470Ω 1/2W	331-2047	2
R24	22K 1/4W	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	300-1907	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	.047MF 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	40250VI	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 +5VR	QTY
L1	723	376-0066	—	—	1
L2	SN7404N	376-0010	7	14	1
L3,4,13	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
CKo	H 7	SEND
CKo	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

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	$\overline{GIB_2T}$
$\overline{OPST}$	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
$\overline{I_0B_1}$	M 11	$\overline{GIA_2T}$
$\overline{I_0B_3T}$	N 12	PRIMT
	P 13	±0V
	R 14	+5VR
$\overline{I_0B_3}$	S 15	

COMP. SIDE — WIRING SIDE

REVISION	BY	DATE
NO.		

WANG LABORATORIES INC. TEWKSBURY, MASS.			
MODEL NO. 727	DRAWN	6-21-73	APP.
	CHECKED		APP. 7/24/73
TITLE SCHEMATIC, LOGIBLOC 6346 TIMING & POWER SUPPLY REGULATOR			
SHT OF	DWG. NO. D 6346-1		REV.

6346-1

DO NOT SCALE

SOLDER POINTS

CABLE TO FRONT PANEL

CABLE WIRING CHART

SIGNAL	WIRE COLOR	FRONT PANEL	
KSW	GRY/ORN	SWITCH KEY	M.O.
$\overline{RD}$	VIOLET	SWITCH DISK SELECT	N.C.
$\overline{FD}$	BLUE	SWITCH DISK SELECT	N.O.
$\overline{FMT}$	GRAY	SWITCH FORMAT	N.O
FMT	GRY/YEL	SWITCH FORMAT	N.C.
$\overline{FOMT}$	ORANGE	FORMAT LIGHT	
$\overline{ERROR}$	GREEN	ERROR LIGHT	
KC_{3S}	WHITE	SWITCH 8 BIT COMMON GROUP 2	
$\overline{KC_3}$	RED/WHT	SWITCH 8 BIT GROUP 2	N.C.
KC_3	YEL/BLK/WHT	SWITCH 8 BIT GROUP 2	N.O
KC_{2S}	GRY/WHT	SWITCH 4 BIT COMMON GROUP 2	
$\overline{KC_2}$	GRN/WHT	SWITCH 4 BIT GROUP 2	N.C.
KC_2	YEL/WHT	SWITCH 4 BIT GROUP 2	N.O.
KC_{1S}	BLU/WHT	SWITCH 2 BIT COMMON GROUP 2	
$\overline{KC_1}$	VIO/WHT	SWITCH 2 BIT GROUP 2	N.C.
KC_1	VIO/BLK/WHT	SWITCH 2 BIT GROUP 2	N.O
KC_{0S}	ORN/WHT	SWITCH 1 BIT COMMON GROUP 2	
$\overline{KC_0}$	BRN/WHT	SWITCH 1 BIT GROUP 2	N.C
KC_0	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 ¼W	330-4010	2
C1, 2	6800 20V	300-3019	2
CONN.	30 PIN CONN.	350-0011	21

WANG LABORATORIES INC. TEWKSBURY, MASS.			
MODEL NO. 730	DRAWN	8-8-73	APP.
	CHECKED		APP.
TITLE SCHEMATIC 6349 MOTHER BOARD AND POWER SUPPLY			
SHT 01	Dwg. No. D 6349-1		REV

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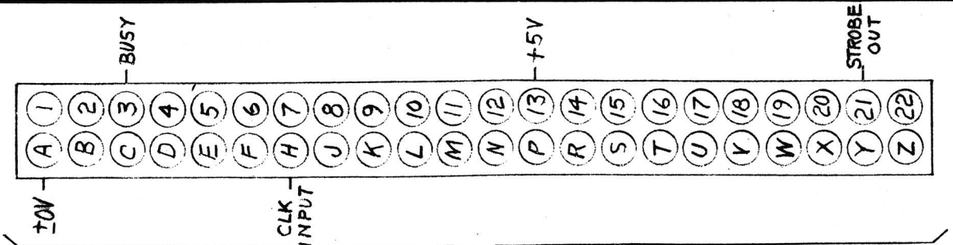
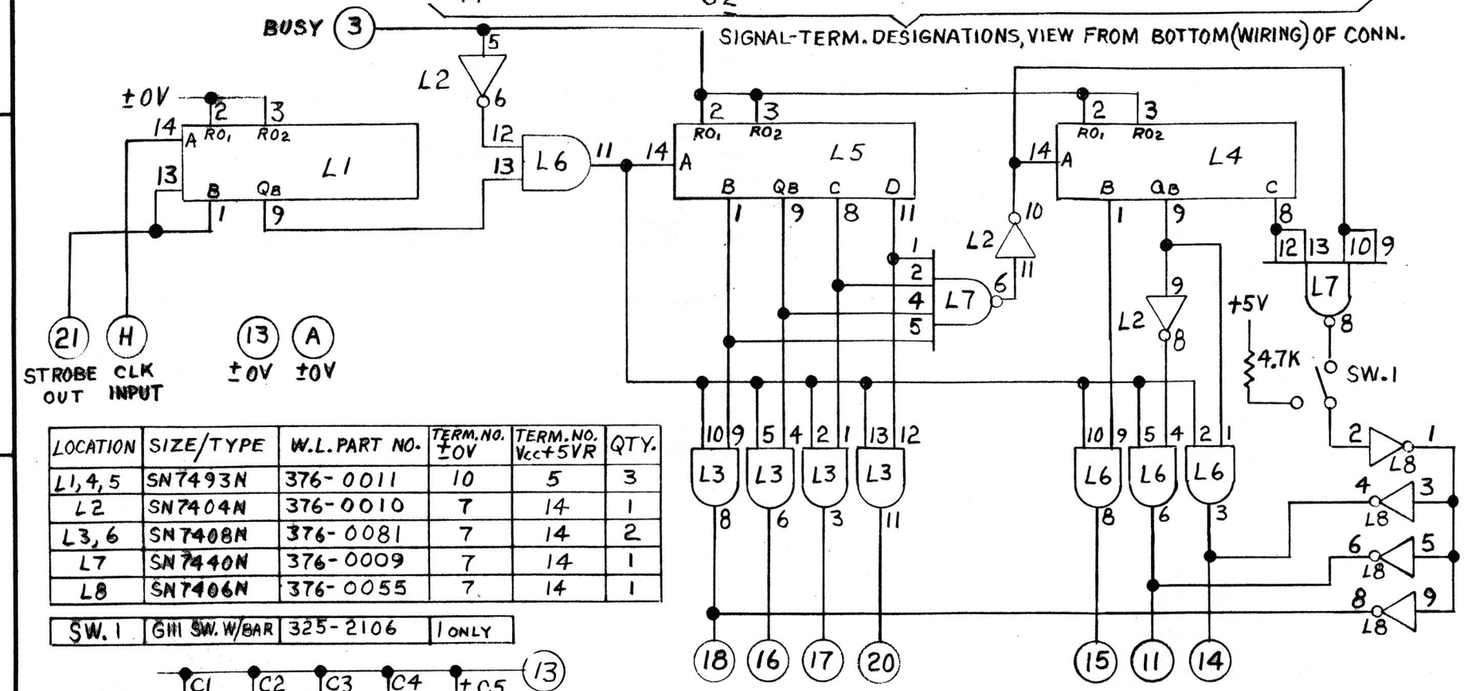
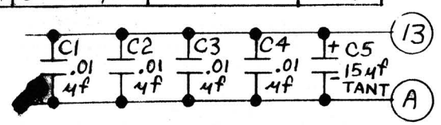
DO NOT SCALE





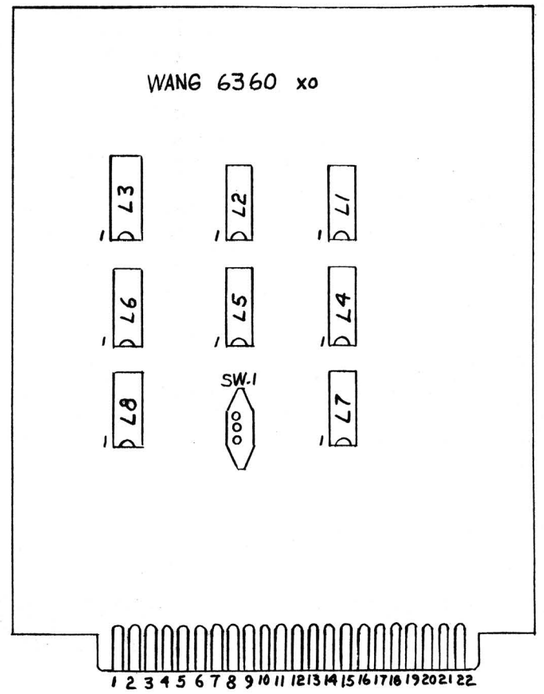
LOCATION	SIZE/TYPE	W.L. PART NO.	TERM. NO. ±0V	TERM. NO. Vcc+5VR	QTY.
L1,4,5	SN7493N	376-0011	10	5	3
L2	SN7404N	376-0010	7	14	1
L3,6	SN7408N	376-0081	7	14	2
L7	SN7440N	376-0009	7	14	1
L8	SN7406N	376-0055	7	14	1

SW.1	GHI SW. W/BAR	325-2106	1 ONLY



HOLE LEGEND		
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		



REVISION NO.	REVISION	DATE	BY
1	CHANGED PER RFA APP'D: H Rodriguez	11-1-73	GK

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

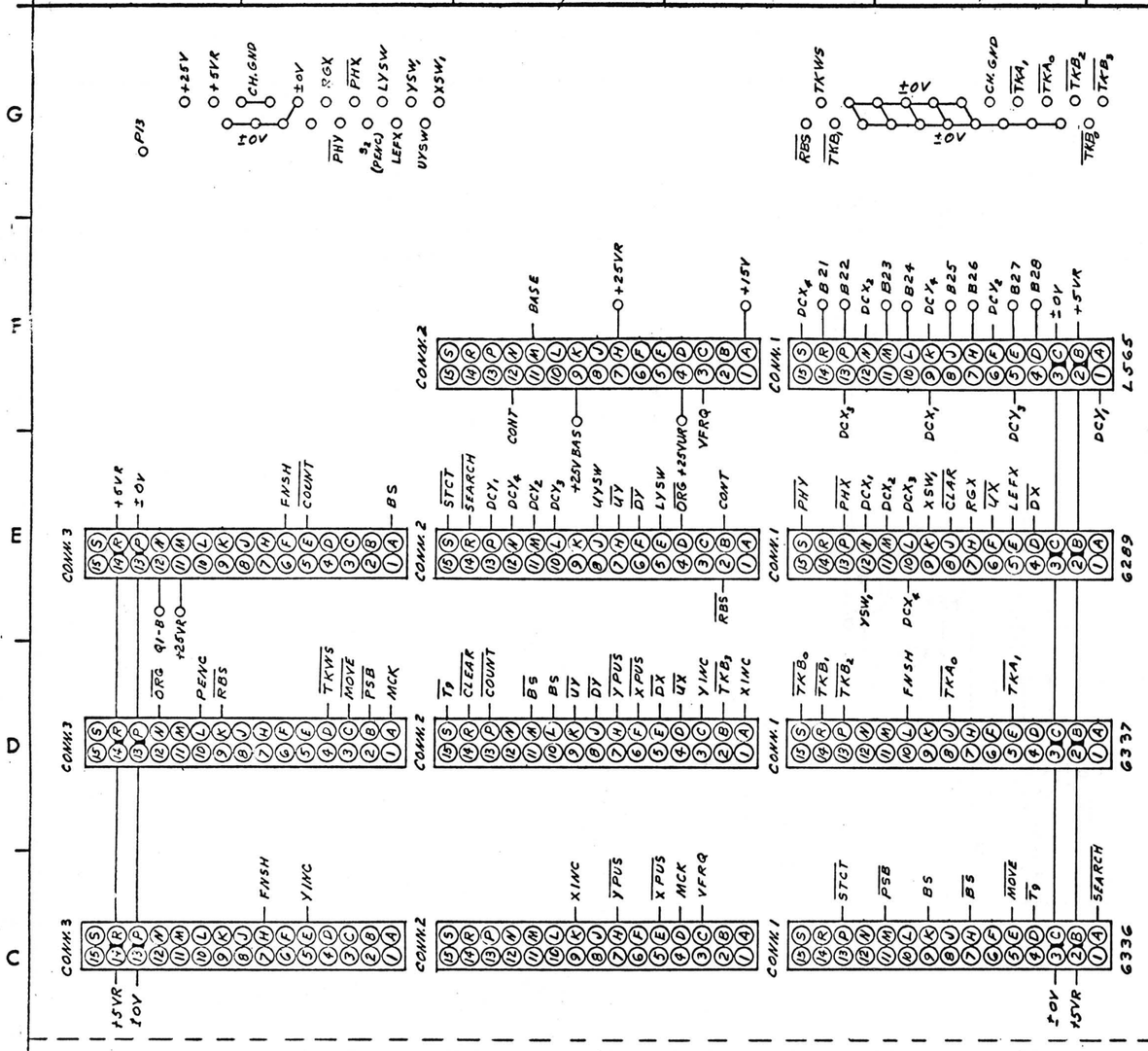
BY	DATE	APPROVED BY	DATE
DWN GK	10-25-73	E ENGR H Rodriguez	
CHK		M ENGR	
E. C. CONTROL		MFG ENGR	

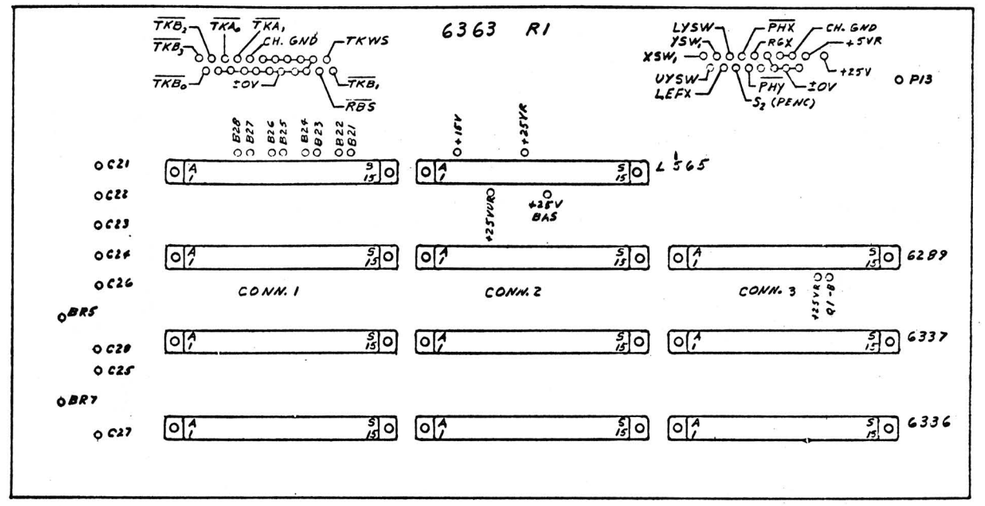
TITLE SCHEMATIC LOGIBLOC # 6360
ASCII CODE GENERATOR

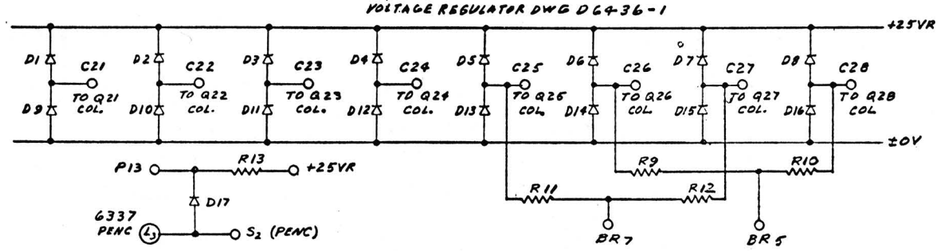
WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.
	B	6360-1	

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

DATE	BY	REVISION

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
732	CHECKED		APP.	

TITLE: MOTHER BOARD AND SCHEMATIC 6363

SHT OF | DWG. NO. D 6363-1 | REV

D 6363-1

DO NOT SCALE

I/O CONN. W.L. P/N 350-2050

I/O CONN.

I/O CABLE W.L. P/N 420-0013

33	±0V	33
34	±0V	34
35	±0V	35
36	CH.GND.	36
4	$\overline{GKA_3}$	4
7	$\overline{GKB_2}$	7
6	$\overline{GKB_1}$	6
1	$\overline{GKA_0}$	1
2	$\overline{GKA_1}$	2
9	$\overline{GISN}$	9
32	$\overline{GKBD}$	32
21	$\overline{GI_0B_1F}$	21
22	$\overline{GI_0B_2F}$	22
10	$\overline{GPRM}$	10
28	I_0B_1	28
27	$\overline{GI_0A_3F}$	27
30	I_0B_3	30
31	$\overline{GISO}$	31
20	$\overline{GI_0B_0F}$	20
23	$\overline{GI_0B_3F}$	23
24	$\overline{GI_0A_0F}$	24
5	$\overline{GKB_0}$	5
26	$\overline{GI_0A_2F}$	26
25	$\overline{GI_0A_1F}$	25
8	$\overline{GKB_3}$	8
3	$\overline{GKA_2}$	3

SOLDER POINTS

W.L. P/N 350-0008

READER CONN.

CABLE

10	+5V	10
15	+14VR	15
8	±0V	8
7	RAW SPROCKET	7
E	$\overline{CH_4}$	E
5	$\overline{CH_5}$	5
4	$\overline{CH_3}$	4
H	$\overline{CH_8}$	H
F	$\overline{CH_6}$	F
6	$\overline{CH_7}$	6
D	$\overline{CH_2}$	D
3	$\overline{CH_1}$	3
14	$Ø_1T_x$	14
13	$Ø_2T_x$	13
12	$Ø_3T_x$	12
L	$Ø_1$	L
K	$Ø_2$	K
M	$Ø_3$	M
E	±0V	E
E	±0V	E
E	±0V	E

SOLDER POINTS

✱ THE UNASSIGNED PIN SHOULD BE LEFT OPEN ON CONNECTOR SIDE

350 BD.

±0V	15 S	DAS
VB₁	14 R	$\overline{GKB_2}$
+10.5V	13 P	
VE₁	12 N	$\overline{GKA_0}$
+5V	11 M	$\overline{GKA_1}$
	10 L	
	9 K	
$\overline{ARST}$	8 J	
VB₂	7 H	S&R
+24.5V	6 F	
VE₂	5 E	
+14VR	4 D	
±0V	3 C	
	2 B	
	1 A	

L574

+5VR	15 S	
±0V	14 R	
STEP	13 P	
	12 N	
	11 M	
	10 L	
	9 K	
	8 J	
	7 H	
	6 F	$\overline{XBR}$
	5 E	
	4 D	
	3 C	
	2 B	
	1 A	RAW SPRKT

L575

$\overline{GKA_3}$	15 S	DAS
+5VR	14 R	$\overline{GKB_2}$
±0V	13 P	
$\overline{GKB_1}$	12 N	$\overline{GKA_0}$
	11 M	$\overline{GKA_1}$
	10 L	
$\overline{DP}$	9 K	
CHANGE SIGN	8 J	
	7 H	S&R
CO_5	6 F	
	5 E	
CO_4	4 D	
	3 C	
CO_3	2 B	
GO	1 A	

L576

	15 S	D_1
+5VR	14 R	D_2
±0V	13 P	D_4
BUFFER STROBE	12 N	STEP
	11 M	D_8
	10 L	D_{10}
	9 K	$\overline{XRB}$
RAC	8 J	$\overline{RSP}$
	7 H	$\overline{RST}$
	6 F	$\overline{GI_0A}$
GI_0B_2F	5 E	GI_0B_1F
	4 D	GI_0B_0F
	3 C	CO_0
	2 B	CO_1
	1 A	CO_2

L577

+5V	15 S	
±0V	14 R	
$\overline{RSP}$	13 P	
$\overline{GOS}$	12 N	
$\overline{GISN}$	11 M	
$\overline{TRANS}$	10 L	
DAS	9 K	$\overline{WKB}$
$\overline{GO}$	8 J	S&R
RAC	7 H	
$\overline{XPB}$	6 F	
PCD_6	5 E	$\overline{XBR}$
$\overline{GI_0B_2F}$	4 D	$\overline{GKBD}$
GI_0B_2F	3 C	$\overline{GPRM}$
$\overline{GI_0B_1F}$	2 B	GI_0B_1F
	1 A	GI_0B_0F

2nd. HALF

L574

$\overline{CH_4}$	15 S	
$\overline{CH_3}$	14 R	$\overline{CH_5}$
$\overline{CH_6}$	13 P	$\overline{CH_8}$
$\overline{CH_7}$	12 N	
$\overline{CH_2}$	11 M	Ø3
$\overline{CH_1}$	10 L	Ø1
	9 K	Ø2
	8 J	
$\overline{DAT_0}$	7 H	
$\overline{DAT_7}$	6 F	
$\overline{DAT_6}$	5 E	
$\overline{DAT_1}$	4 D	
$\overline{DAT_4}$	3 C	±0V
$\overline{DAT_5}$	2 B	+5VR
$\overline{DAT_2}$	1 A	$\overline{DAT_3}$

L575

CO_2	15 S	
$\overline{GKB_0}$	14 R	
CO_1	13 P	
	12 N	
CO_0	11 M	
$\overline{GKA_2}$	10 L	$\overline{GKB_3}$
$\overline{WKB}$	9 K	RUB OUT
$\overline{GISN}$	8 J	BUFFER STROBE
$\overline{GOS}$	7 H	$\overline{DAT_0}$
	6 F	$\overline{DAT_7}$
	5 E	$\overline{DAT_6}$
	4 D	$\overline{DAT_1}$
$\overline{DAT_4}$	3 C	±0V
$\overline{DAT_5}$	2 B	+5VR
$\overline{DAT_2}$	1 A	$\overline{DAT_3}$

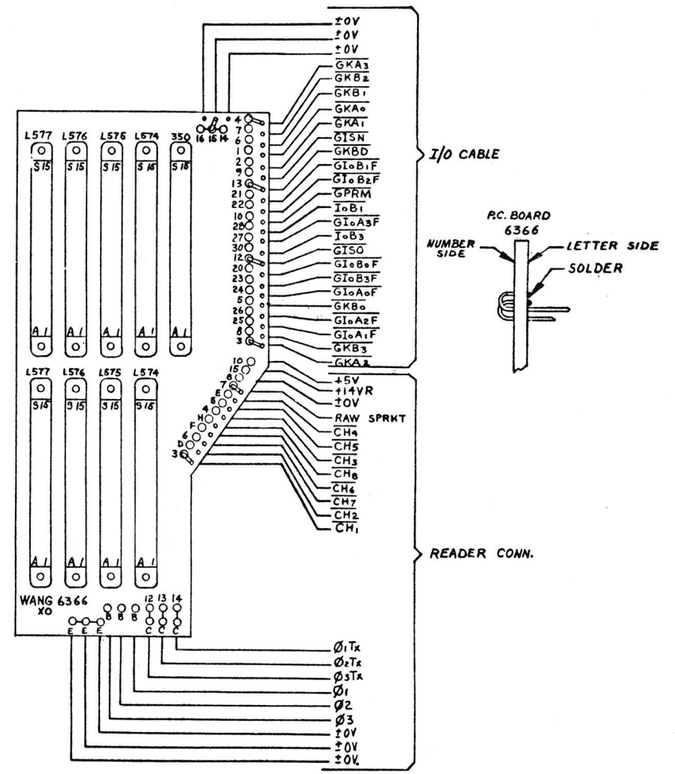
L576

	15 S	CO_3
	14 R	$\overline{COT}$
	13 P	CO_4
	12 N	CO_5
	11 M	
	10 L	
$\overline{TRANS}$	9 K	
$\overline{GO}$	8 J	
$\overline{DP}$	7 H	
CHANGE SIGN	6 F	
PCD_6	5 E	
PCD_5	4 D	
PCD_4	3 C	±0V
PCD_3	2 B	+5VR
PCD_1	1 A	PCD_2

L577

D_2	15 S	$\overline{GI_0B_0F}$
PCD_1	14 R	$\overline{GI_0B_3F}$
$\overline{GI_0A_0F}$	13 P	$\overline{COT}$
$\overline{GI_0A_2F}$	12 N	$\overline{GI_0A}$
D_8	11 M	$\overline{GI_0A_1F}$
D_4	10 L	$\overline{ARST}$
D_1	9 K	
$\overline{RST}$	8 J	$\overline{GISO}$
$\overline{GI_0A_3F}$	7 H	RUB OUT
$\overline{I_0B_1}$	6 F	PCD_5
$\overline{I_0B_3}$	5 E	
BUFFER STROBE	4 D	PCD_2
PCD_4	3 C	±0V
PCD_3	2 B	+5V
D_{10}	1 A	

1st HALF



REVISION	BY

WANG LABORATORIES INC.
TEWKSBURY, MASS.

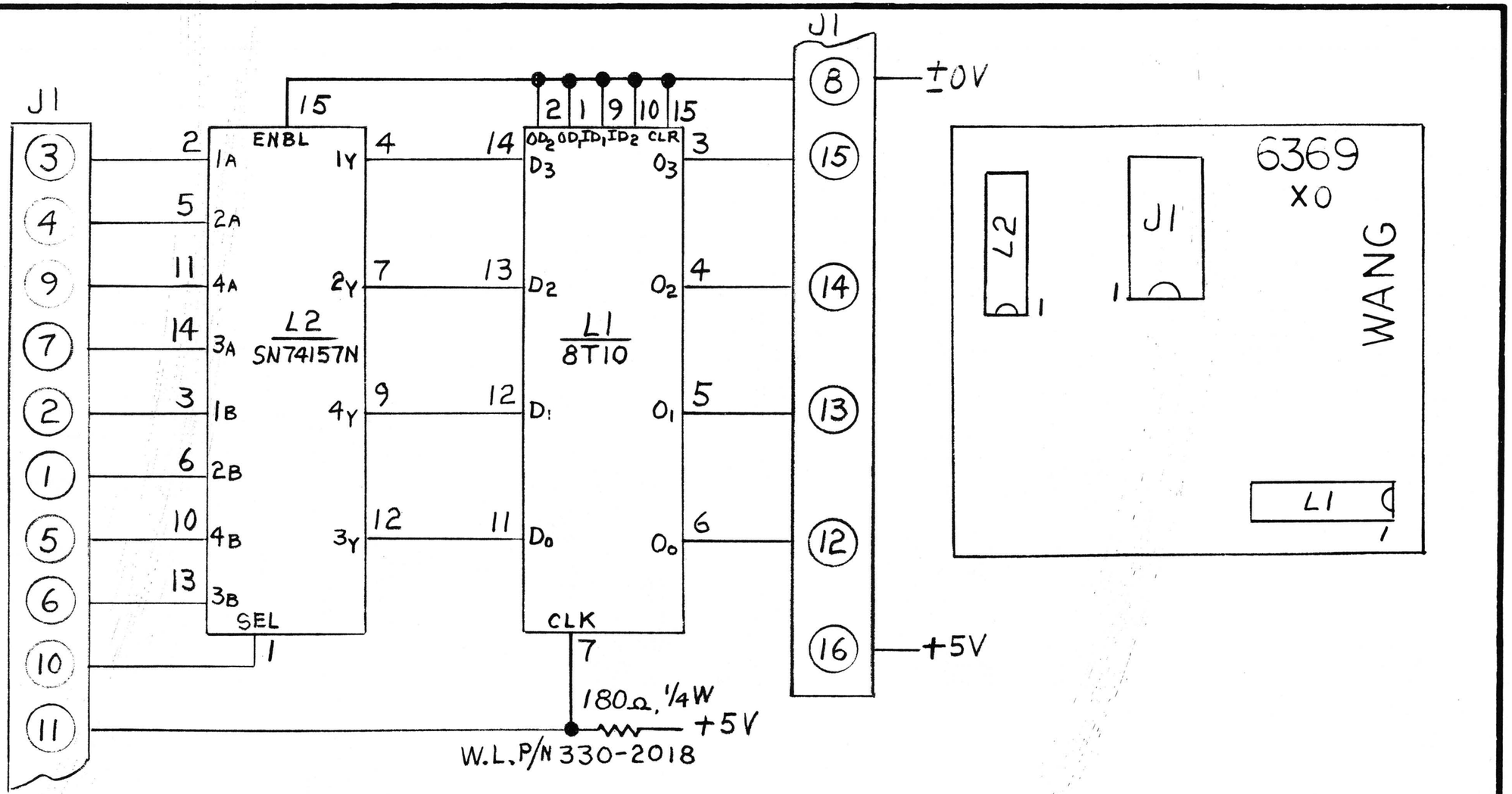
MODEL NO.	DRAWN	DATE	APP.
733	EK	10-10-73	
	CHECKED		APP.
	JS		SKH 11/8/73

TITLE: SCHEMATIC # 6366 MOTHER BOARD

SHT OF | DWG. NO. D 6366-1 | REV.

D 6366-1

DO NOT SCALE



WANG LABORATORIES, INC. TEWKSBURY, MASS. U. S. A.				
MODEL NO. 730	DRAWN CK	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

DO NOT SCALE

6395 CONN.1

	1	BSY
+5VR	2	+5VR
±0V	3	±0V
SCT_3	4	SCT_4
SCT_2	5	SCT_1
SCT_0	6	R_4
R_6	7	CNTRLG
$\overline{FR}$ L	8	$\overline{ADSS}/\overline{HOLD}$
TPK ØR	9	$\overline{FR}$ R
TPK ØL	10	$\overline{MC_0}$
t_4	11	$\overline{MC_7}$
$\overline{LD\ HD}$ R	12	$\overline{LD\ HD}$ L
$\overline{MC_6}$	13	INDEX L
$\overline{MC_5}$	14	INDEX R
$\overline{MC_4}$	15	STEP IN L

6296 CONN.1

CAN	1	t_{01}
+5VR	2	+5VR
±0V	3	±0V
$\overline{KC_3}$	4	CABY
$\overline{KC_2}$	5	CAST1
$\overline{KC_1}$	6	$\overline{KC_0}$
BRL	7	$\overline{ADSS}$ /HOLD
KS_6	8	KS_7
KS_5	9	KS_4
	10	
	11	
$\overline{CAX}$	12	$\overline{SCM}$
A4	13	SCT_4
A7	14	A6
ERROR	15	A5

6297 CONN.1

+5VR	2	+5VR
±0V	3	±0V
$\overline{t_{67}}$	4	CAN
	5	ADI
t_{01}	6	$\overline{STW}$
EJ2	7	$\overline{ADI}$
$\overline{CAAD3}$	8	10 MHZ
$\overline{t_4}$	9	t_4
$\overline{CAX}$	10	$\overline{CAAD1}$
$\overline{BLC}$	11	$\overline{CAAD2}$
	12	$\overline{BC}$
$\overline{BRO}$	13	$\overline{BR}$
BR1	14	R_{13}
R_8	15	R_6

6298 CONN.1

-9 VR	1	
+5VR	2	+5VR
±0V	3	±0V
$\overline{BR}$	4	FMT
ED11	5	K SW
ED10	6	
ED9	7	10 MHZ
ED8	8	10 MHZ-2
$\overline{BLC}$	9	ED0
BR1	10	$\overline{BRO}$
$\overline{t_{67}}$	11	ED3
ED7	12	ED2
ED6	13	ED1
ED5	14	$\overline{t_4}$
ED4	15	R_8

6399 CONN.1

$\overline{MC_6}$	1	$\overline{MC_2}$
+5VR	2	+5VR
±0V	3	±0V
$\overline{MC_7}$	4	$\overline{MC_1}$
$\overline{MC_4}$	5	$\overline{MC_3}$
$\overline{MC_5}$	6	MCC
C5	7	$\overline{MC_0}$
M_0	8	M_5
C0	9	C1
M4	10	M_1
C4	11	C7
M_3	12	M_7
C3	13	M_2
M_6	14	C2
C6	15	A0

J24
643, 2240, 740 CABLE

+5VR	16	$\overline{FMT}$
$\overline{RD}$	15	$\overline{ERROR}$
FD	14	
±0V	13	
Rind	12	
Lind	11	$\overline{FOMT}$
K SW	10	
FMT	9	

J25
643,740 SOCKET

$\overline{KC_0}$	16	KC_0S
$\overline{KC_1}$	15	KC_3S
KC_3	14	KC_2S
KC_0	13	
KC_2	12	KC_1S
KC_1	11	$\overline{KC_3}$
	10	$\overline{KC_2}$
	9	

JL

$\overline{LD\ HD}$ L	1	INDEX L
TPK ØL	2	STEP IN L
$\overline{FR}$ L	3	
±0V	4	STEP OUT L
±0V	5	±0V
±0V	6	±0V
±0V	7	±0V
±0V	8	±0V
±0V	9	$\overline{SECT\ L}$
±0V	10	
	11	$\overline{RDD\ L}$
	12	$\overline{RCLK\ L}$
+5VR	13	W DATA L
-12VR	14	FILE UNS RESL
+24VR	15	W ENAB L

JR

$\overline{LD\ HD}$ R	1	INDEX R
TPK ØR	2	STEP IN R
$\overline{FR}$ R	3	
±0V	4	STEP OUT R
±0V	5	±0V
±0V	6	±0V
±0V	7	±0V
±0V	8	±0V
±0V	9	$\overline{SECT\ R}$
±0V	10	
	11	$\overline{RDD\ R}$
	12	$\overline{RCKL\ R}$
+5VR	13	W DATA R
-12VR	14	FILE UNS RESR
+24VR	15	W ENAB R

CONN.2

$\overline{STEP\ IN}$ R	1	CABY
CAST1	2	$\overline{FR}$
KS_7	3	STEP OUT R
KS_6	4	$\overline{STEP\ OUT\ L}$
Lind	5	Rind
$\overline{CAAD3}$	6	$\overline{CAAD2}$
$\overline{SECT\ L}$	7	$\overline{SECT\ R}$
$\overline{CAAD1}$	8	CWC
KS_5	9	EJ2
KS_4	10	10 MHZ-2
KS_3	11	KS_1
CLK-1	12	KS_2
$\overline{CLR}$	13	KS_0
$\overline{STW}$	14	
$\overline{CAPM}$	15	$\overline{MC_1}$

CONN.2

$\overline{CAST0}$	1	$\overline{RDD\ R}$
$\overline{RCLK\ L}$	2	$\overline{RDD\ L}$
$\overline{RCLK\ R}$	3	$\overline{MC_3}$
$\overline{RDDA}$	4	$\overline{MC_2}$
$\overline{SCM}$	5	
WCD	6	$\overline{RCLK}$
$\overline{W\ ENAB\ L}$	7	
$\overline{W\ DATA\ L}$	8	$\overline{W\ DATA\ R}$
FILE UNS RESR	9	FILE UNS RESL
½ TA	10	$\overline{W\ ENAB\ R}$
	11	DISL
WTG	12	ESG
+0V	13	±0V
+5VR	14	+5VR
	15	CH. GND.

CONN.2

KS_1	1	
C1	2	C0
KC_3	3	KC_2
EDO	4	SCT_3
KC_1	5	$\overline{ACU}$
WORD RD	6	KC_0
BRH	7	SCT_0
C3	8	C2
A3	9	A2
A0	10	A1
C6	11	SCT_1
C5	12	SCT_2
C4	13	KS_3
RM_0	14	KS_2
RM_4	15	KS_0

CONN.2

R_9	1	R/W
NOOP	2	ED11
ED10	3	ED8
ED9	4	R_{12}
$\overline{WRI}$	5	ED6
ED7	6	ED4
ED5	7	CC
$\overline{WR}$	8	R_{14}
ED1	9	R_4
ED0	10	R_5
ED2	11	ED3
R_{11}	12	R_2
R_3	13	R_1
R_0	14	R_{10}
R_{15}	15	R_7

CONN.2

M_1	1	R_9
M_3	2	R_{10}
M_2	3	R_{11}
t_{01}	4	M_0
R_{12}	5	R_{13}
R_{15}	6	R_{14}
M_4	7	M_5
M_7	8	M_6
R_4	9	FOMT
R_5	10	R_6
C3	11	R_7
A3	12	A2
A1	13	C2
R_0	14	R_1
C1	15	A0

CONN.2

A7	1	A2
A6	2	A1
A5	3	A3
A4	4	FD
$\overline{RDDA}$	5	DISL
BSY	6	
½ TA	7	$\overline{RD}$
$\overline{STO}$	8	FOMT
WORD RD	9	KC_1S
$\overline{FOMT}$	10	KC_2S
$\overline{ERROR}$	11	KC_0S
ERROR	12	$\overline{ADSS}/\overline{HOLD}$
KC_3S	13	NOOP
	14	
$\overline{PM}$	15	$\overline{FR}$

CONN.3

$\overline{KR}$	1	$\overline{ACU}$
$\overline{STI}$	2	BRH
M_3	3	RM_3
RM_2	4	M_2
M_0	5	RM_1
M_1	6	RM_0
$\overline{STO}$	7	BRL
C0	8	C1
M_7	9	RM_5
RM_7	10	M_5
M_6	11	RM_4
RM_6	12	M_4
±0V	13	±0V
+5VR	14	+5VR
	15	

CONN.3

C7	1	ED8
RM_5	2	RM_1
RM_6	3	RM_2
RM_7	4	RM_3
$\overline{STI}$	5	t_4
NOOP	6	R_{12}
R_{13}	7	$\overline{CNTRL}$
FD	8	R_{14}
$\overline{BLC}$	9	$\overline{RD}$
$\overline{BC}$	10	R_{11}
R_8	11	$\overline{KR}$
CC	12	R_{15}
±0V	13	±0V
$\overline{WRI}$	14	+5VR
	15	R_9

CONN.3

C0	1	R_3
C7	2	R_2
A7	3	A4
A6	4	C4
C6	5	RDG
A5	6	$\overline{PM}$
C5	7	
$\overline{WR}$	8	
t_4	9	MCC
R/W	10	CNTRLG
$\overline{CAPM}$	11	$\overline{CAST0}$
$\overline{FMT}$	12	
±0V	13	±0V
+5VR	14	+5VR
+10VUR	15	

CONN.3

$\overline{STI}$	1	$\overline{STW}$
CNTRLG	2	$\overline{ACU}$
K SW	3	$\overline{CNTRL}$
EDO	4	$\overline{t_4}$
t_{01}	5	ESG
ED10	6	WTG
$\overline{RCLK}$	7	RDG
STW	8	R_3
WCD	9	R_2
R_7	10	R_1
ADI	11	R_0
$\overline{ADI}$	12	$\overline{CLR}$
±0V	13	±0V
+5VR	14	+5VR
CLK-1	15	

NOTE : 1. ADSS MODELS 640/740
HOLD MODELS 2240/2242

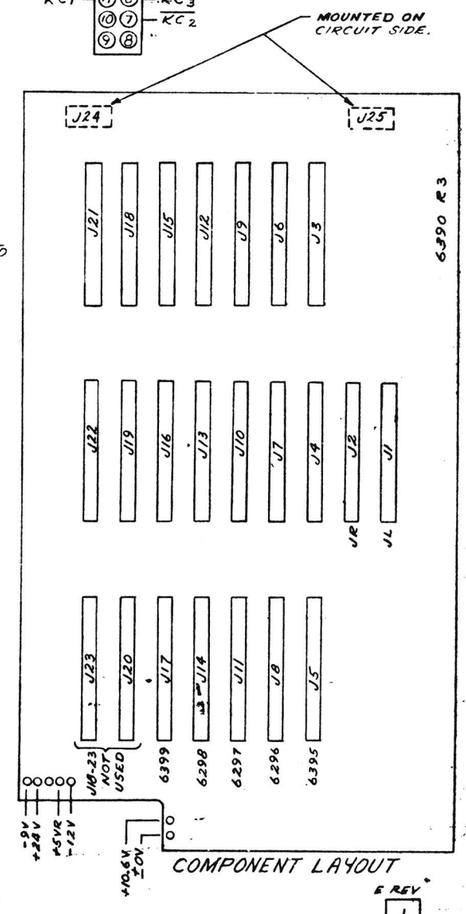
COMPONENT	SIZE, TYPE	W.L. NO.
J1 THRU J17	225-21521-110PC	350-0011
CABLE J24,25	16 PIN SIDE ENT.	420-2000

JUMPER WIRES

A	-12VR
B	+5VR
C	±0V
E	+10VUR
F	CWC
H	+24VR
S	-9VR

REF. DWG 6394

SOLDER POINTS DWG. 6390



COMPONENT LAYOUT

E REV 1

MAY 19 1977

REV	BY	DATE	APP'D
1	PO	9-30-74	
2	EBA	12-11-74	
3	EBA	3-18	KC

REV	DESCRIPTION	DATE	APP'D
1	REVISED PER ECN 40494	9-30-74	
2	REVISED PER ECN 41529 ADDED:	12-11-74	
3	REVISED PER REV 1389, ECN 40494: ADDED	3-18	

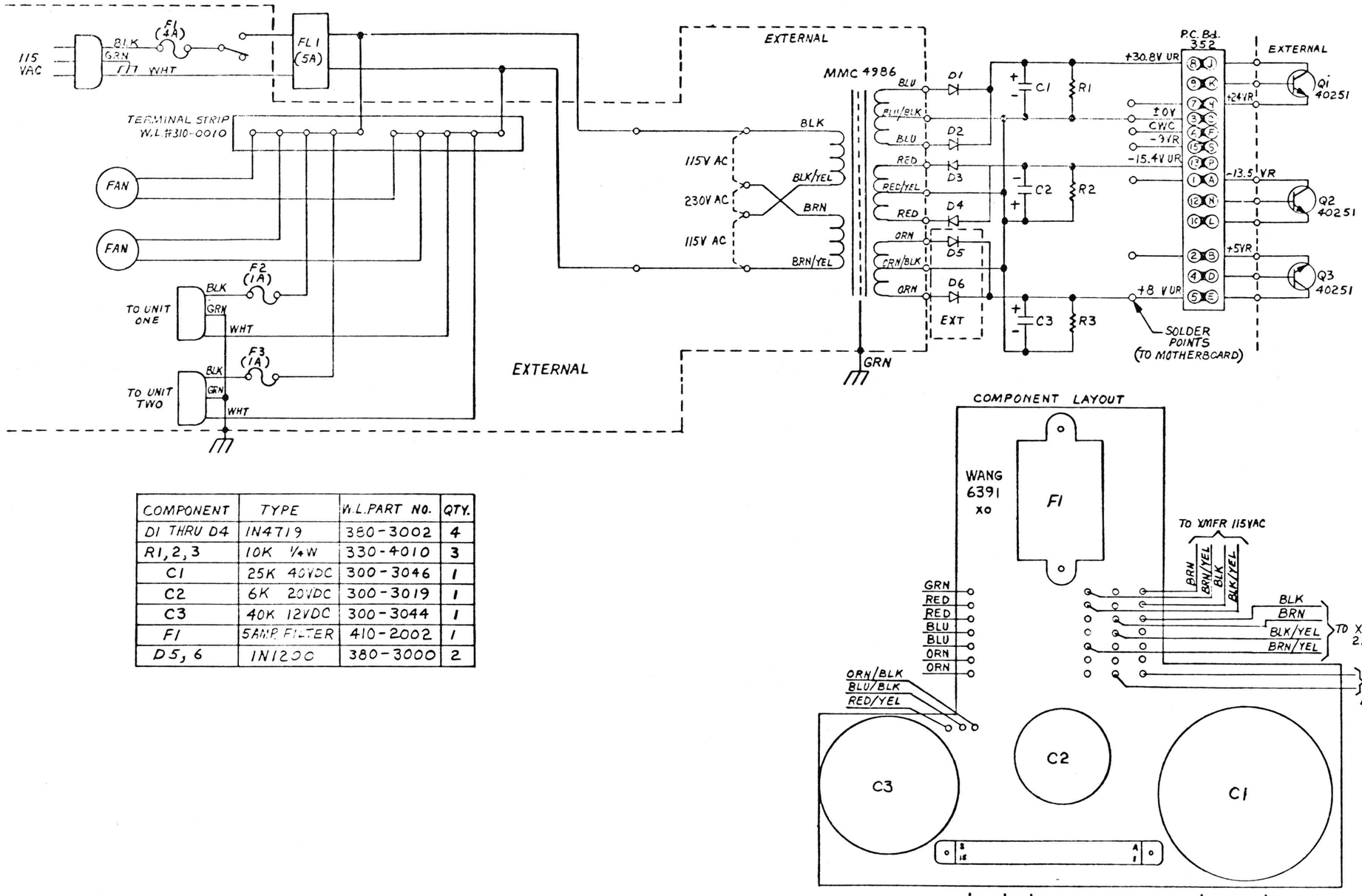
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 640/740/2240/2242	DRAWN F.S.S.	11-28-73	APP.
	CHECKED		APP.

TITLE: 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	IN4719	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	IN1200	380-3000	2

REVISION	DATE	BY
1	REVISED PER ECO #15 APPD. 11/14	F.S. 12/3

TOL EX. AS NOTED
.XX ±.010 FRAC. ±1/64
.XXX ±.005 ANG. ±0.30
FINISH: RV
MATERIAL
FINISH

IDENT	QTY	NAME	MATERIAL	DESCRIPTION
			DR [illegible]	DATE 11-8-73
		WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.	CHK	DATE
			APPD [illegible]	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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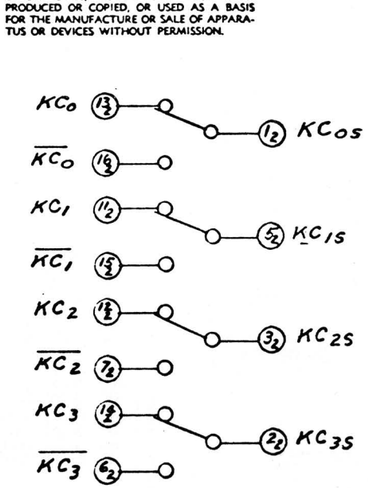
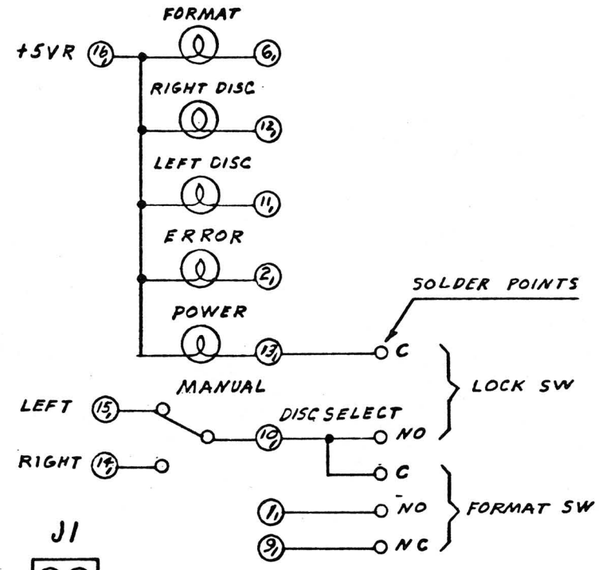
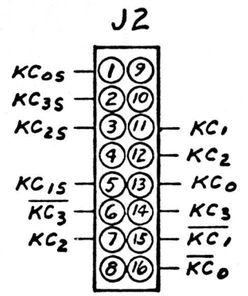
DO NOT SCALE

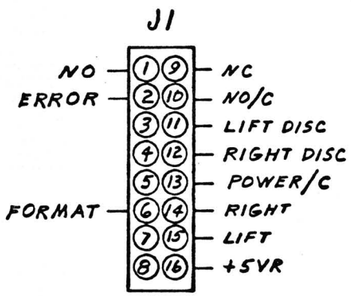
HOLE LEGEND		
DRILLED OR PUNCHED HOLE TOLERANCES:	HOLE DIA.	TOL.
	.0135 to .125	+.003 -.001
	.126 to .250	+.004 -.001
	.251 to .500	+.005 -.001

IDENT.	DESCRIPTION	QTY.
A		

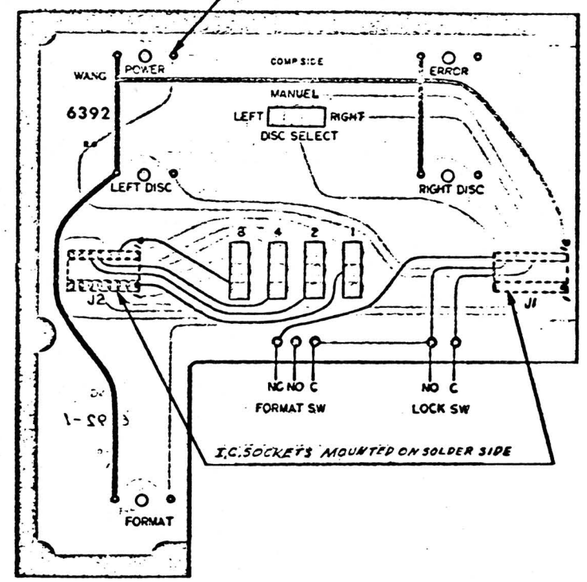








SEE NOTE 1



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 (5/8L)	TEFLON TUBING	605-0120	.58

NOTE:
1. SLEEVE ALL LAMP LEADS (10 PIECES)

NO.	REVISION	DATE	BY
1	REVISED PER ECN # 4076 APP'D	4/3/74	JAM
2	REVISED PER ECN # 4094 APP'D	5/1/74	JAM

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

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

MATERIAL

FINISH -

MODEL NO. 643/740/2240

SEE ENGRG SPECIFICATIONS No.

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	5/1/74	E ENGR	5/1/74
CHK		M ENGR	
E. C. CONTROL		MFG ENGR	

TITLE SCHEMATIC, LOGIBLOC 6392 FRONT PANEL CONTROLS

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
1-2639	C	6392-1	2

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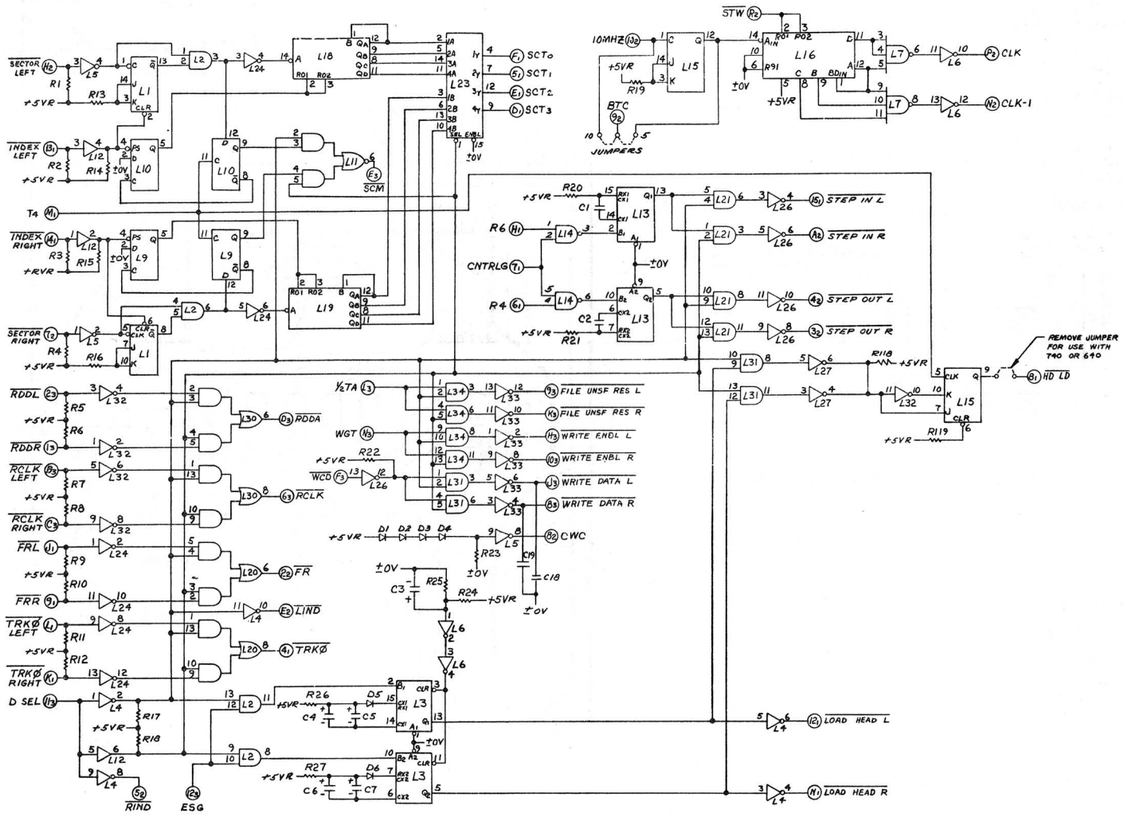
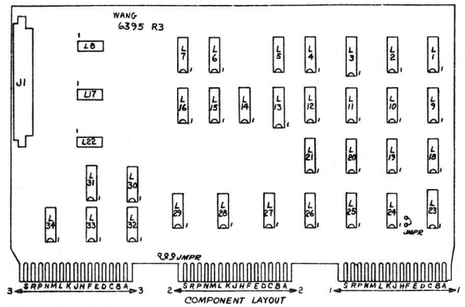
DO NOT SCALE

HOLE LEGEND

DRILLED OR PUNCHED HOLE TOLERANCES:	HOLE DIA.	TOL
	0.125 to .125	± .007
	.126 to .250	± .005
	.251 to .500	± .007

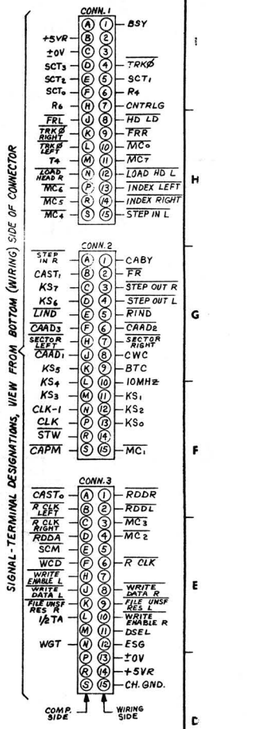
IDENT	DESCRIPTION	QTY
A		

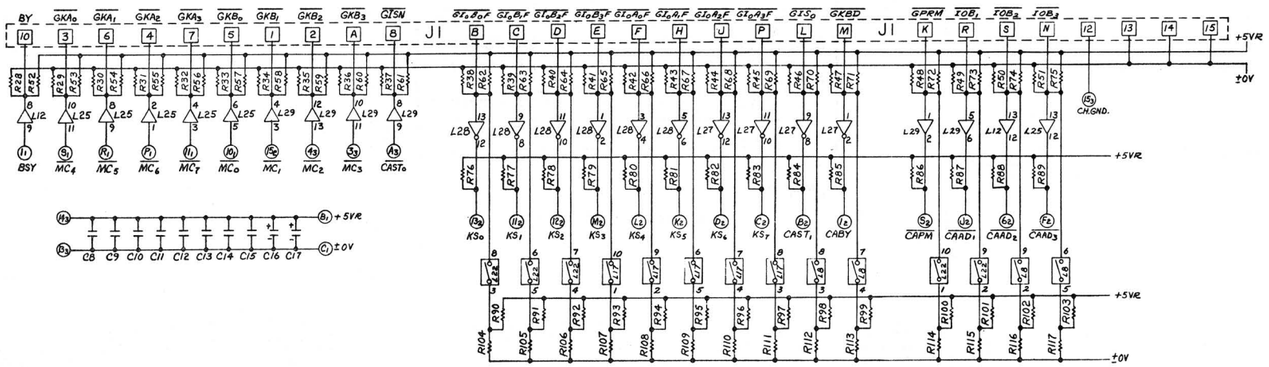




LOCATION	TYPE	W.L. PART NO.	TERM. NO. ±0V	TERM. NO. +5VR
L1,15	7473	376-0005	11	4
L2,21,31,34	7408	-0081	7	14
L3,13	74123	-0080	8	16
L4,26-28,33	7406	-0055	7	14
L5	7414	-0139	7	14
L6,24,32	7404	-0010	7	14
L7	7410	-0003	7	14
L14	7400	-0002	7	14
L9,10	7474	-0006	7	14
L11,20,30	7451	-0012	7	14
L12,25,29	7407	-0056	7	14
L16	7490	-0073	10	5
L18,19	7493	-0011	10	5
L23	74157	376-0082	8	16
L8,17,22	SBANK ROCKER SW.	325-1501		
L8,17,22	SBANK ROCKER CAP	325-9045		

COMPONENT	SIZE/TYPE	W.L. PART NO.
R1-12	680Ω ¼W	330-2068
R13,16,19	22K	-4022
R14,15,17,18	1K	-3010
R20,21,119	10K	-4010
R22,28-37,104-117	330Ω	-2033
R24	12K	-4012
R25	15K	-4015
R26,27	47K	-4047
R23,52-61,76-103	220Ω	-2022
R38-51	3.3K	-3033
R62-75,118	2.2K ¼W	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	360-1001
J1	225-2152 CONN.	350-0011





MAY 19 1977

REV	DESCRIPTION	BY	DATE
A	REVISED PER E.S.N. 338. ADDED PINS 7 & 14 TO J1	AK	12-23-74
B	REVISED PER E.S.N. 1175. INCORPORATED	AK	12-23-74
C	REVISED PER E.S.N. 1175. INCORPORATED	AK	12-23-74
D	REV. PER E.S.N. 1468 (CONCURRENT W/ 6395 REV. D)	AK	3-21-75
E	REVISED PER E.S.N. 1468 (CONCURRENT W/ 6395 REV. D)	AK	3-21-75

E REV 2

WANG PART NO.	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
			WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.		
			MATERIAL:	MODEL NO 640/740 2240/2242	TITLE: SCHEMATIC LOGIBLOC 6395 TERMINATOR BOARD
			FINISH:	SEE ENGRG SPECIFICATIONS No.	
				TOL. EX. AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG. ± 1° 30' FINISH 125	210-6395 / E / 6395 / 3
				SCALE: NONE / SHT 4 OF 6	WANG PART NUMBER / SIZE / DRAWING NUMBER / REV

BY	DATE	APPROVED BY	DATE
DWN AK	2-21-75	E ENGR G.M.	10-20-78
CHK	3-21-75	M ENGR	
E C CONTROL		MFG ENGR	

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DO NOT SCALE

EXTERNAL FORMAT P.B. — WE SWITCH — FMT / FMT — 30V — FB RB

COMPONENT LAYOUT 6398 – RD

LOCATION	TYPE	WL. PART NO	TERM. NO. SOLDER	TERM. NO. WIRE WRAP	QTY
L1,2,3,4,13,40	SN74173N	376-0005	11	4	6
L5,7,8,9,37	SN7401N	376-0010	7	14	4
L6	SN7404N	376-0036	7	14	1
L14,18,28,30	SN7400N	376-0002	7	16	5
L12,23,35	SN74174N	376-0007	13	8	3
L29	SN74164N	376-0102	7	14	1
L10,11,12,39	SN74195N	376-0097	8	16	4
L16	SN7406N	376-0055	7	14	1
L15	SN7402N	376-0016	7	14	1
L17, 38	SN7432N	376-0093	7	14	2
L18, 27	SN7408N	376-0081	7	16	2
L20,21,31,32	SN74153N	376-0068	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	376-0067	8	16	1
L35	SN74193N	376-0073	8	16	1
L36	SN7420N	376-0008	7	14	1

COMP.	SIZE/TYPE	WL. PART NO.	QTY
R1	180Ω 5%	330-2018	1
R2	1.8K 5%	330-3018	1
R3,4	220Ω 5%	330-2022	2
R5,6,8,11	10K 5%	330-3010	4
R7	4.7K 5%	330-3047	1
R9,10	2.2K 5%	330-3022	2
C14	47 MFD CER	300-1047	1
C1, 13	15 MFD TANT	300-4022	2
C2,3,4,5,6,7,8,9,11,12	.01 MF CER	300-1903	11
XTAL	6.25 MHz	321-0014	1

CONN. 1

$\overline{MC_4}$	A1	B1	$\overline{MC_2}$
+5VR	A2	B2	
30V	A3	B3	
$\overline{MC_7}$	A4	B4	
$\overline{MC_1}$	A5	B5	
$\overline{MC_5}$	A6	B6	$\overline{MC_3}$
C_5	A7	B7	MCC
M_4	A8	B8	$\overline{MC_0}$
C_0	A9	B9	M_F
M_5	A10	B10	C_1
C_4	A11	B11	M_1
M_3	A12	B12	C_2
C_3	A13	B13	M_2
M_6	A14	B14	C_6
C_6	A15	B15	A_0

CONN. 2

A_7	A1	B1	A_6
A_5	A2	B2	A_4
A_3	A3	B3	A_2
A_1	A4	B4	$\overline{FD}$
A_0	A5	B5	DISL
RDDA	A6	B6	MESL
BSY	A7	B7	$\overline{RD}$
$\overline{STA}$	A8	B8	FOMT
$\overline{STo}$	A9	B9	KC_{15}
WORD RDY	A10	B10	KC_{25}
$\overline{FOMT}$	A11	B11	KC_{05}
$\overline{ERROR}$	A12	B12	$\overline{AD33}$
ERROR	A13	B13	$\overline{WTCK}$
KC33	A14	B14	$\overline{SZ}$
$\overline{LAZ}$	A15	B15	$\overline{FR}$
$\overline{PM}$	A16	B16	

CONN. 3

$\overline{STT}$	A1	B1	$\overline{STW}$
CNTRIG	A2	B2	$\overline{ACU}$
DC $\downarrow$	A3	B3	$\overline{CNTR}$
$\overline{ED_0}$	A4	B4	$\overline{E_0}$
$\overline{Yo1}$	A5	B5	$\overline{ESG}$
$\overline{ED_2}$	A6	B6	WTG
$\overline{RCLK}$	A7	B7	$\overline{RDS}$
STW	A8	B8	R_3
$\overline{WCD}$	A9	B9	R_2
R_7	A10	B10	R_1
$\overline{ADI}$	A11	B11	R_0
$\overline{ADI}$	A12	B12	30V
	A13	B13	+5VR
DC $\downarrow$	A14	B14	

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

COMP. SIDE — WIRING SIDE

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
DO NOT USE ON / FIRST USED ON / ASS'D USED ON					

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

	BY	DATE	APPROVED BY	DATE
DWN	[illegible]	6-10-[illegible]	ENGR	[illegible]
CHK			ENGR	
E.C. CONTROL			MFG ENGR	

MATERIAL — MODEL NO 730/2230 — SEE ENGRG SPECIFICATIONS

FINISH — TOL. UNLESS NOTED .XX ± .010, .X ± .030, ANGS. ± 1° SEE ENGRG

TITLE SCHEMATIC LOGIC FOR DISK CONTROL 6398

SCALE — SHT OF — WANG PART NUMBER 510-6398 — REV E — 6398-1

REVISION

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LOCATION	TYPE	WL. PART NO	TERM. No TOP	TERM. No SIDE	QTY
L1,2,5,34,35	SN7473N	376-0005	11	4	6
L3,26,36,37	SN7404N	376-0010	7	14	6
L4	SN7486N	376-0036	7	14	1
L6/12,20,31	SN7400N	376-0002	7	14	5
L7,8,23,28	SN7476N	376-0007	13	5	3
L9	SN74164N	376-0102	7	14	1
L10,16,17,39	SN74153N	376-0097	8	16	4
L18	SN7406N	376-0055	7	14	1
L15	SN7402N	376-0016	7	14	1
L14,38	SN7432N	376-0093	7	14	2
L19,27	SN7400N	376-0081	7	14	2
L29,21,32	SN74153N	376-0048	8	16	4
L22,33	SN74258N	376-0138	8	16	2
L24	SN7410N	376-0003	7	14	1
L25	SN7474N	376-0006	7	14	1
L30	SN74151N	376-0067	8	16	1
L35	SN74193N	376-0083	8	16	1
L36	SN7420N	376-0009	7	14	1

CODE	SIZE/TYPE	WL. PART NO	QTY
R1	180Ω ¼W	330-2018	1
R2	1.0K ¼W	330-3018	1
R3,4	220Ω ¼W	330-2022	2
R5,6,8,11	10K ¼W	330-4010	4
R7	4.7K ½W	330-3047	1
R9,10	2.2K ¼W	330-3022	2
C16	47 mf CER.	300-1047	1
C1, 13	INTENTIONAL	300-6022	2
C2,3,4,C7 & 9,14,15	.01 mf CER.	300-1903	11
XTAL	10 MHz	321-0008	1

REV	DESCRIPTION	DATE	APPROVED BY
1	REVISED PER ECO 4	9/7/71	

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION

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

MATERIAL — MODEL NO 2260 — FINISH

DWN F.D. — CHK G.D. — E.C. CONTROL

APPROVED BY: ENGR — MFG ENGR

TITLE SCHEMATIC LOGIC/BOX 6398-1 DISK CONTROL

210-6398 | E | 6398-1 | 3

SCALE — SHT 7 OF 7

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DO NOT SCALE

EXTERNAL — FORMAT P.B

KEY SWITCH: ±0V (1) → FMT / FMT; FD RD

COMPONENT LAYOUT — 6399 – R2

LOCATION	TYPE	WL PART NO	TERM No ±0V	TERM No +5VR	GTI
L2,5,8,14,91	SN7473N	376-0005	11	4	6
L3,7,25,38	SN7809N	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	SN7404N	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	SN74157N	376-0047	8	16	1
L36	SN74193N	376-0053	8	16	1
L37	SN7420N	376-0008	7	14	1

COMP.	SIZE/TYPE	WL PART No.	QTY
R1	4.7K ½W	330-3097	1
R2,3,6,7	10K ½W	330-4010	4
R4,5	2.2K ½W	330-3022	2
C1,13	15MF/20V TANT	300-4022	2
C2,3,4,5,6,7, 8,9,10,11,12	0.1MF 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.S" FOR JUMPER ON MODELS STATED.

JUMPER MUST BE ADDED ON BOARDS USED IN 640/780 2243 MODELS.

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

CONN. 1

$\overline{MC_6}$	A1	$\overline{MC_2}$
+5VR	B2	
±0V	C3	
$\overline{MC_7}$	D4	$\overline{MC_1}$
$\overline{MC_4}$	E5	$\overline{MC_3}$
$\overline{MC_5}$	F6	MCC
C_5	H7	$\overline{MC_0}$
M_5	J8	M_5
C_0	K9	C_1
M_0	L10	M_1
C_4	M11	C_2
M_3	N12	M_2
C_3	P13	M_2
M_4	R14	C_2
C_6	S15	A_0

CONN. 2

A_7	A1	A_2
A_6	B2	A_1
A_5	C3	A_3
A_4	D4	$\overline{FD}$
$\overline{RDDA}$	E5	DISL
BSY	F6	HESL
½TA	H7	$\overline{RD}$
$\overline{STo}$	J8	FOMT
WORD RDY	K9	KC15
$\overline{FOMT}$	L10	KC25
$\overline{ERROR}$	M11	KC35
ERROR	N12	$\overline{ADS3}$
KC35	P13	$\overline{WOOP}$
KSW	R14	
$\overline{PM}$	S15	$\overline{FR}$

CONN. 3

$\overline{STI}$	A1	STW
CNTRLG	B2	$\overline{ACU}$
KSW	C3	CNTRL
$\overline{RDo}$	D4	t_4
$\overline{To1}$	E5	ESG
$\overline{ED_{10}}$	F6	WTG
RCLK	H7	RDG
STW	J8	R_3
WCD	K9	R_2
R_7	L10	R_1
ADI	M11	R_0
$\overline{ADI}$	N12	CLK
	P13	±0V
	R14	+5VR
CLK-1	S15	

COMP. SIDE — WIRING SIDE

MAY 19 1977

REV. 2

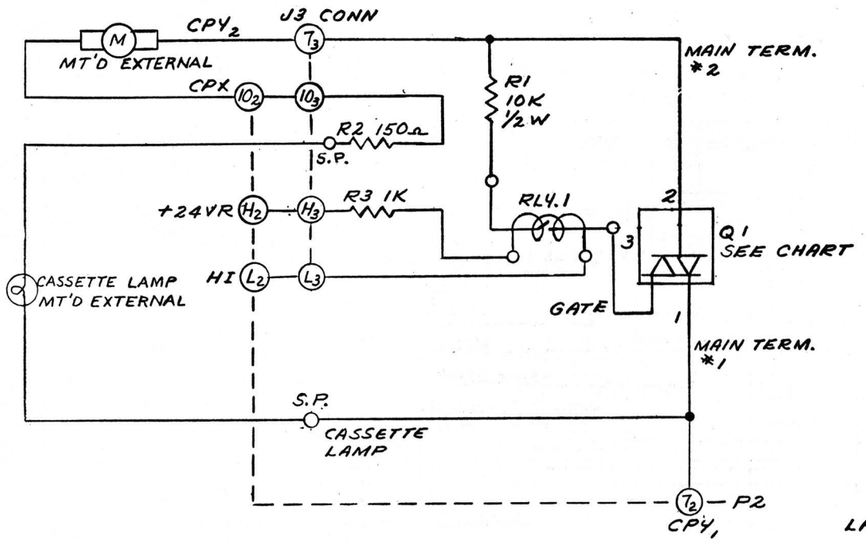
REVISION	BY	DATE	F.S	F.S	#6
REVISED PER ECN 640-K-3-74 APP'D:			10(21)7	4(7-17)6(13)7(3-7)	
REVISED PER ECN 640-K-3-74 ADDED L30 APP'D:			2(11)7	4(7-17)6(13)7(3-7)	
REVISED PER ECN 640-K-3-74 APP'D:			2(11)7	4(7-17)6(13)7(3-7)	

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 / 11-19-75 / E ENGR
					CHK / 11-22-76 / M ENGR
			MATERIAL	MODEL NO. 640/740/2240/2242/2243	I. C. CONTROL / MFG ENGR
				SEE ENGRG SPECIFICATIONS	TITLE SCHEMATIC LOGIBLOC 6399 DISK CONTROL
			FINISH	TOL. EX. AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG. ± 1°30' FINISH √	210-6399 / E / 6399 / 4
				SCALE / SHT / OF	WANG PART NUMBER / SIZE / DRAWING NUMBER / REV

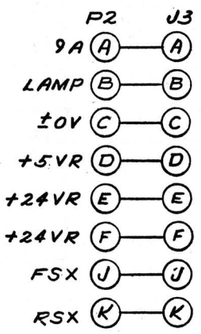
DO NOT SCALE

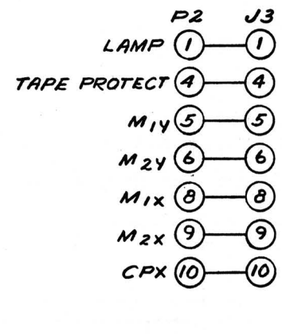
HOLE LEGEND		
DRILLED OR PUNCHED HOLE TOLERANCES:	HOLE DIA.	TOL.
	.0135 to .125	+.003 −.001
	.126 to .250	+.004 −.001
	.251 to .500	+.005 −.001

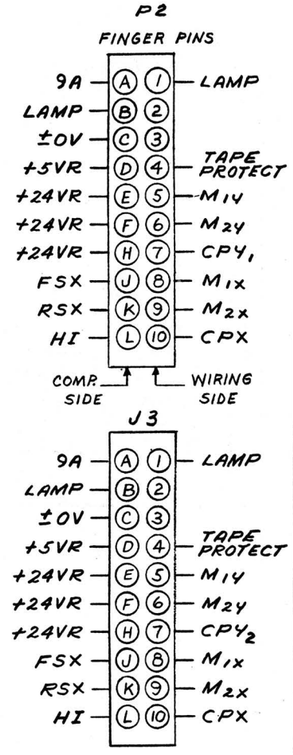
IDENT.	DESCRIPTION	QTY.
A		

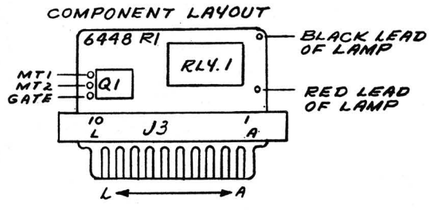


COMPONENT	W.L. NO.
R1	331-4010
R2	330-2015
R3	330-3010
J3	350-0028
Q1	375-3002
RLY.1	320-0047









"Q1" CHART

COMPONENT	TERMINAL			PIN CALL-OUT
	MT1	MT2	GATE	
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)

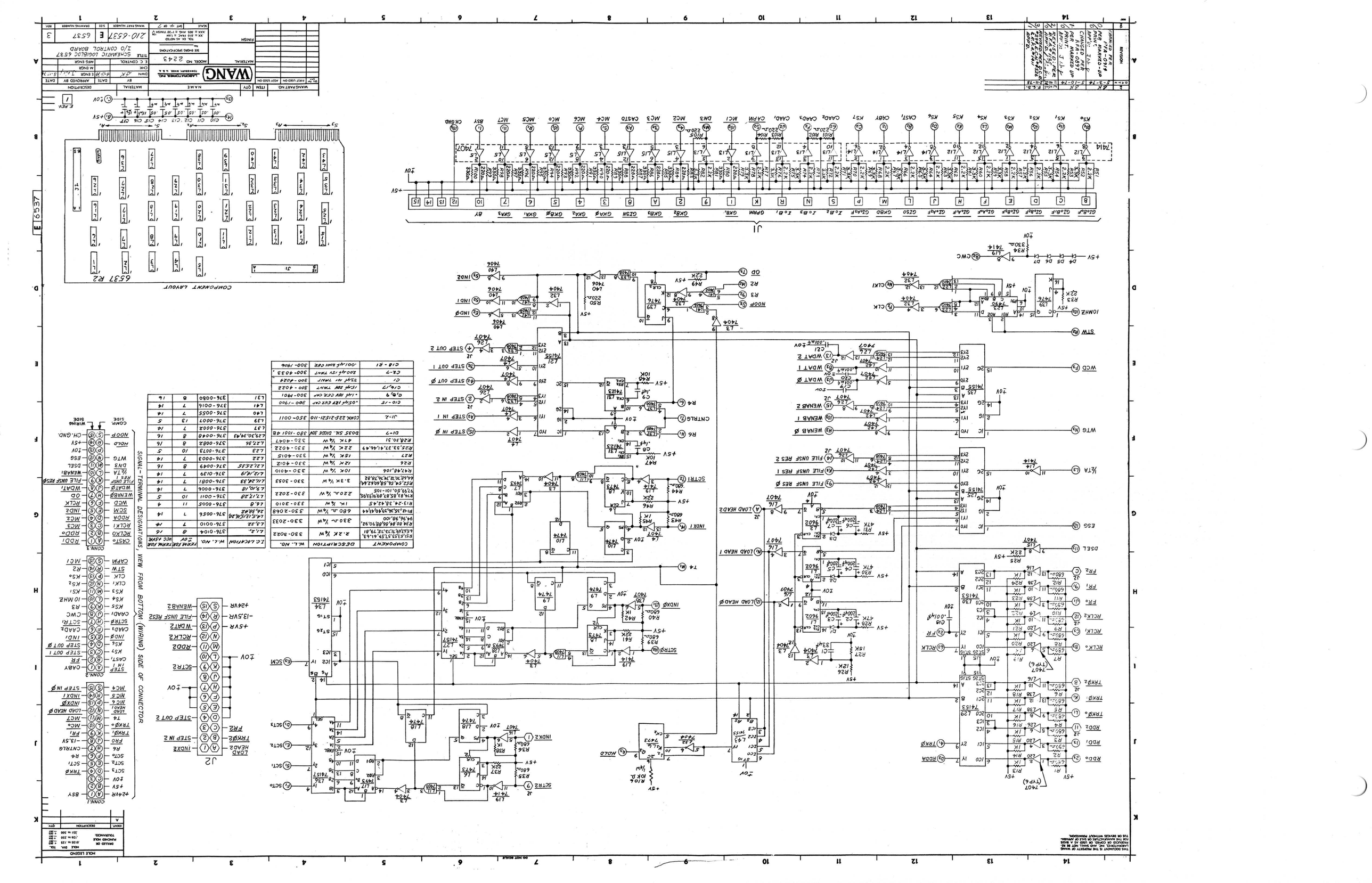
E-REV 1

NO.	REVISION	DATE	BY
1	REVISED: PER E.C.N. # 4531 & E.E.A. 1411 APP'D. [illegible]	2-7-75	F.S.S.

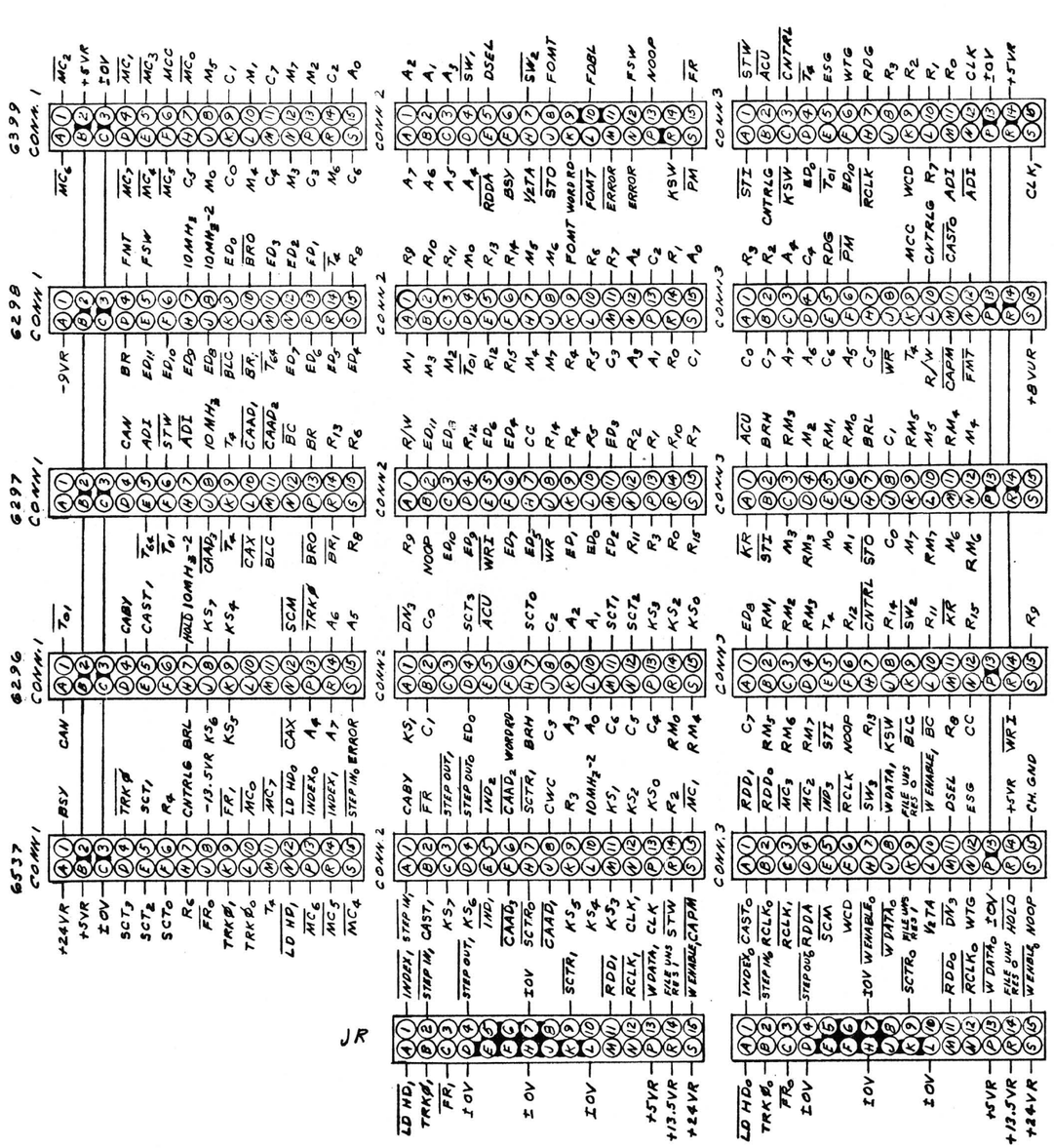
WANG PART NO.	ITEM	QTY.	NAME
Qty. Per Unit / FIRST USED ON / ASSY USED ON			WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.
			MATERIAL: —
			MODEL NO.: TD-24
			SEE ENGRG SPECIFICATIONS No. ____
			FINISH: —
			TOL. EX. AS NOTED .XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1°30' FINISH 128
			SCALE — SHT 4 OF 5

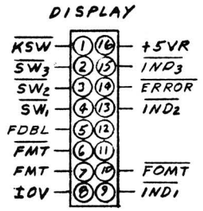
MATERIAL	DESCRIPTION			
BY	DATE	APPROVED BY	DATE	
DWN DRC	9/19/74	E ENGR S.K. Ho	10/21/74	
CHK [illegible]	10/21/74	M ENGR		
E. C. CONTROL		MFG ENGR		
TITLE: SCHEMATIC, AUTO ON/OFF 6448				
210-6448	C	6448	1	
WANG PART NUMBER	SIZE	DRAWING NUMBER	REV	

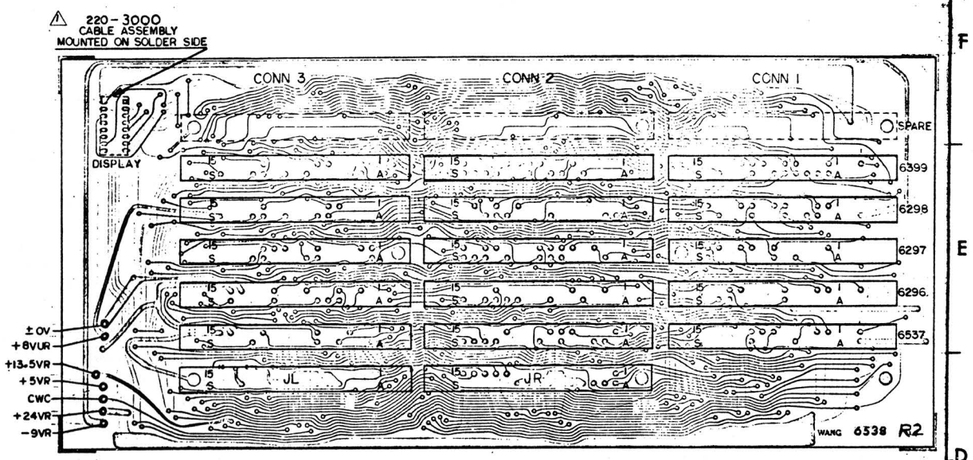
8449 D


WANG
LABORATORIES, INC.
TITLE SCHEMATIC LOGIC/LOC 6537
3/O CONTROL BOARD
210-6537 E 6537 3
MODEL NO 2243
MATERIAL
FINISH
SIZE
DRAWING NUMBER
REV
SCALE
SHEET 4 OF 7
NEXT ASSY USED ON
APPROVED BY
DATE
DESCRIPTION
DRAWN
CHK'D
ENGR
MFG ENGR
QUALITY ENGR
DWG APPROVAL
REVISION
ECN#
DATE
APPROVED
CHANGED PER PRR MARKED-UP PRINT
ADDED 6537 R2
ADDED 6537 R2
ADDED 6537 R2

DO NOT SCALE







PARTS LIST

QTY. PER DASH NO.	KEY	WANG PART NUMBER	WANG DRAWING NUMBER	NOMENCLATURE OR DESCRIPTION	UNIT	ITEM NO.
-4						
1	1	510-6538		6538 PC BOARD		1
1	1	220-3000		FLAT CABLE ASSY		2
17	17	350-0011		225-21521-110 PC CONN		3
						4
						5
						6
						7

MAY 19 1977

E.REV 1

NO.	REVISION	DATE	BY
1/0	RV PER ECN #4378 11-17-76	12-17-76	EBA
2/1	REL PER ECN NO REF DWG # APP'D		

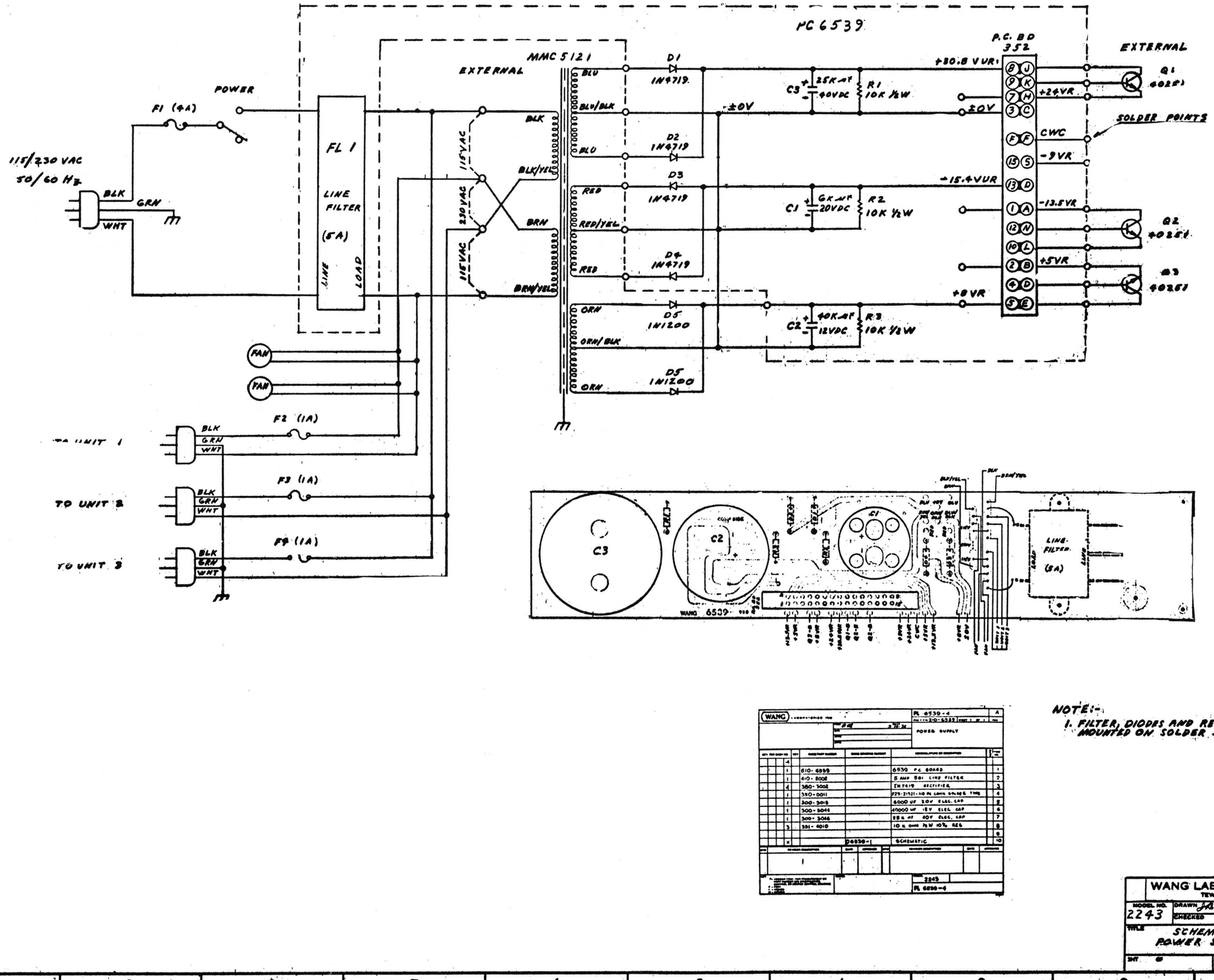
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.
2243	3-3-77	
	CHECKED 5/16/77	APP.

TITLE: MOTHER BOARD 6538

SHT 4 OF 5 | DWG. NO. D 6538 | REV 2

D 6538-1



QTY	PART NUMBER	DESCRIPTION
1	610-6839	6539 PC BOARD
1	410-3002	5 AMP 50i LINE FILTER
4	380-3002	IN4719 RECTIFIER
1	350-0011	225-2121-110 PL LOOK SHADE TYPE
1	300-3019	6000 UF 50V ELEC CAP
1	300-3044	47000 UF 15V ELEC CAP
1	300-3046	25 K MF 40V ELEC CAP
3	381-4010	10 K OHM ¼W 10% RES
	D6539-1	SCHEMATIC

WANG — PL 6539-4 — POWER SUPPLY — 2243

NOTE:-
1. FILTER, DIODES AND RESISTORS TO BE MOUNTED ON SOLDER SIDE

REV	DATE	REVISION
1	4/14/74	REVISED P.C.B. ARTWORK ADDED

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	DATE	APP.	DATE
2243	CHECKED		APP.	

TITLE: SCHEMATIC POWER SUPPLY 6539

SHT. 01 — DWG. NO. D 6539-1 — REV. 1

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DO NOT SCALE

HOLE LEGEND

DRILLED OR PUNCHED HOLE TOLERANCES:	HOLE DIA.	TOL.
	.0135 to .125	±.003
	.126 to .250	±.005
	.251 to .500	±.013

IDENT.	DESCRIPTION	QTY.
A		

L13 74153 · L12 74153 · L4 74155 · L11 74155 · L20 74153 · L19 74153 · L17 74153 · L18 74153 · L6 74155 · L5 74155 · L6A 74153

L3 74155 · L1C 74153

L9 7407 · L23 7404 · L16 7474 · L14 7473 · L19 7473 · L8 7473 · L22 74121 · L21 7420 · L7 7408 · L2 9321

R1 4.7K · R2 1K · R3 4.7K · R4 220 · R5 120 · R6 1.5K · R7 220 · R8 1K · R9 22C · R10 220Ω · R15 4.7K · R41 22K · R12 22K · R13 2.2K · R14 2.2K · RR 15K

C1 .02 · C2 100PF · C3 .01 mf · C4 .01 mf · C5 .01 mf · C6 15uF 20V

XTAL 4 MHZ

CHASSIS MNTD. PWR ±0V +5VR · MOG MODE 0 CH1 CH2 CH3 CH4

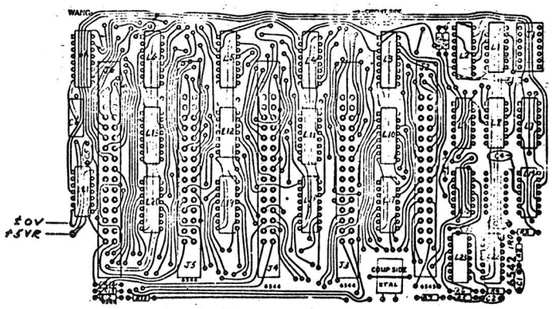
I.C. LOCATION	TERM. FOR ±0V	TERM. FOR VCC +5VR
L8, 14	11	4
L2, 3, 4, 5, 8, 10, 11, 12, 13, 17, 18, 19, 20, 6A	8	16
L1, 7, 9, 14, 15, 16, 21, 23	7	14

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	510-6542	6542 PC BOARD
2	1	376-0004	7420 IC
2	-	-0005	7473
2	-	-0006	7474
2	-	-0010	7404
1	-	-0048	74153
5	-	-0049	74155
1	-	-0051	74121
2	-	-0056	7407
1	-	-0061	7408
1	-	-0096	9321 IC
11	376-9012		14 PIN IC SOCKET CAMBION

ALL RESISTORS ¼W 10% UNLESS OTHERWISE SPECIFIED

ITEM	QTY	PART NUMBER	DESCRIPTION
4	1	321-0011	4 MC OSCILLATOR
5	1	350-0011	225-21521-110 PC CONN SOLDER
1	1	300-1010	10 pf CER C
3	-	-1903	.01 mf 25V +20% CER C
1	-	-1904	.02 mf 25V CER C
1	1	300-4022	15 mf 20V 10% TANT C
1	1	330-2018	180Ω
4	-	-2022	220Ω
1	-	-3010	1 K
1	-	-3015	1.5 K
4	-	-3022	2.2 K
3	-	-3047	4.7 K
1	1	330-4015	15 K

6542-1 210-6542 rev 2 sh 1 · 6542-1 210-6542 rev 3 sh 1



REVISION	BY	DATE
REVISED PER ECA 1289 APP'D	HF	5/15/74
CHANGED PER SCR-0982 APP'D	BK	1/15/74
O		

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
				DWN N.F.	5/13/74 E ENGR
				CHK	M ENGR
				E C CONTROL	MFG ENGR
			MODEL NO. 2224 — SEE ENGRG SPECIFICATIONS — No.	TITLE SCHEMATIC-LOGIBLOC #6542 MOTHER BOARD	
			TOL EX AS NOTED .XX ± .010 FRAC ± 1/64 .XXX ± .005 ANG ± 1°30' FINISH	SCALE	SHT 1 OF 1
				WANG PART NUMBER	E 6542-1
				SIZE	DRAWING NUMBER
					REV. O

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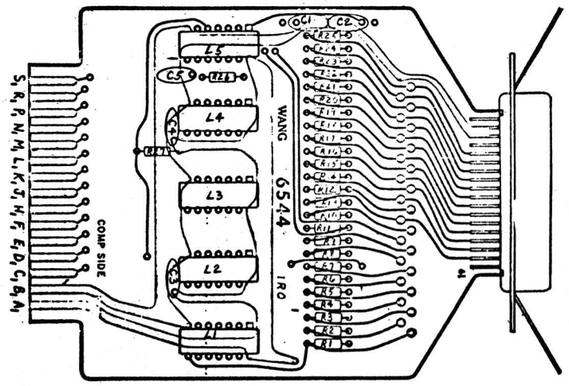
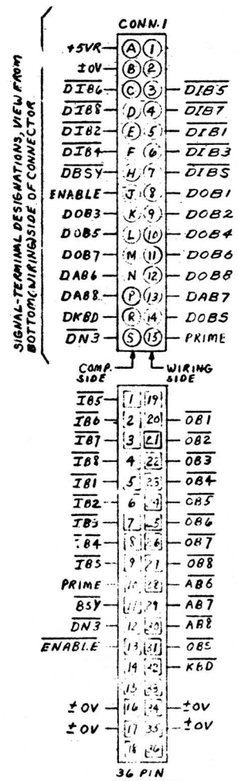
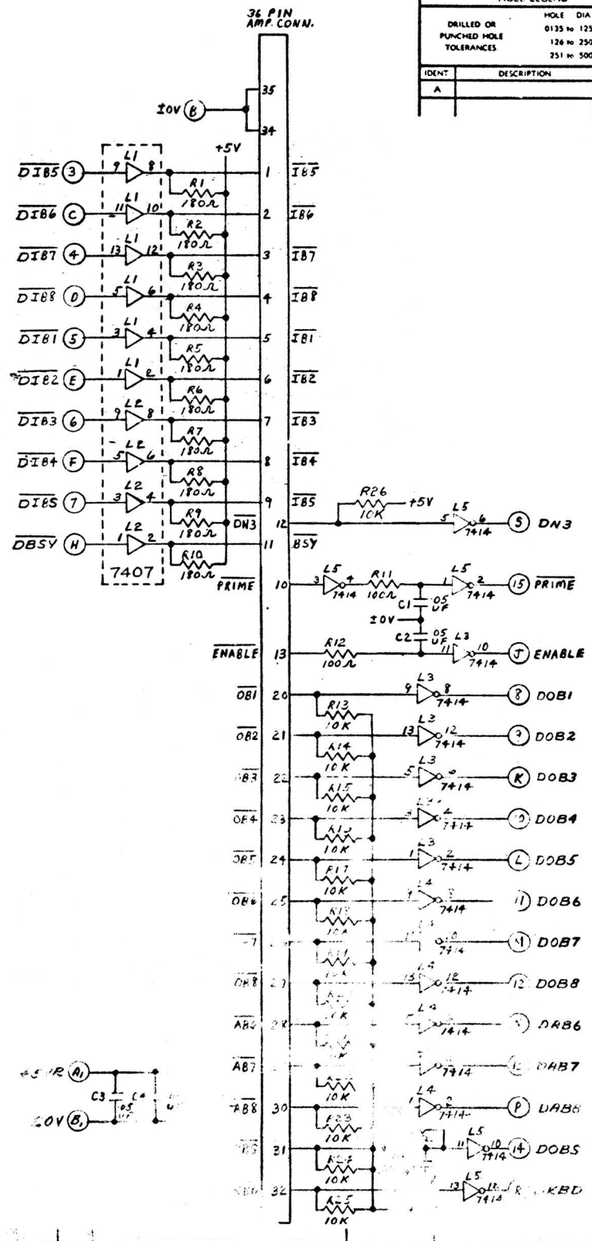
DO NOT SCALE







I.C. LOCATION	TERM. FOR ±0V	TERM FOR VCC +5VR
L1, 2	7	14
L3, 4, 5	7	14

NOTE: ALL RESISTORS ¼W 10% UNLESS SPECIFIED OTHERWISE

QTY PER DASH NO	KEY	WANG PART NUMBER	WANG DRAWING NUMBER	NOMENCLATURE OR DESCRIPTION	LOCATION	ITEM NO
-4						1
1		510-6544		6544 PC BOARD		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			D6544-1	SCHEMATIC		17

KEY: A = VENDOR OR PART NUMBER SEE SPECIFICATION CONTROL OR SOURCE CONTROL DRAWING. F = FEET I = INCHES M = METRIC

PL REV 210-6544-4 SHEET 2 OF 2 REV B

HOLE LEGEND

DRILLED OR PUNCHED HOLE TOLERANCES	HOLE DIA	TOL
	.0135 to .125	± .003 ± .005
	.126 to .250	± .004 ± .006
	.251 to .500	± .005 ± .013

IDENT	DESCRIPTION	QTY
A		

NO	BY	DATE	REVISION
0	A. M.F.	4-11-74	REVISED PER ECA 0881 APPD.
			CHANGE PER DCR-3982 APPD:

MATERIAL	DESCRIPTION

BY	DATE	APPROVED BY	DATE
A. M.F.	4/11/74	E ENGR.	
IK		M ENGR	
E C CONTROL		MFG ENGR	

TITLE: SCHEMATIC LOGIC BLOCK 6544 2200 DISA MULTIPLEXER

WANG LABORATORIES TEWKSBURY, MASS.

MODEL NO 2200

ENGRG SPECIFICATION No

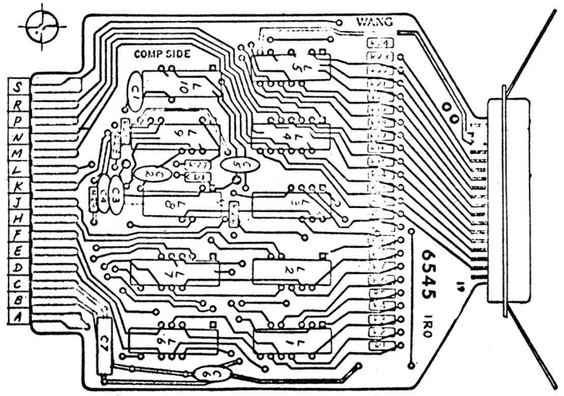
FINISH

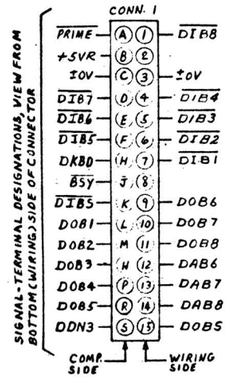
TOL EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH 125

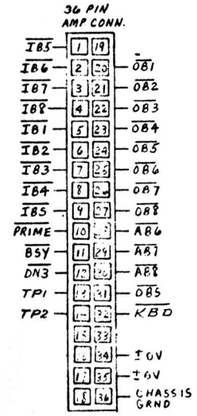
SCALE | SHT OF

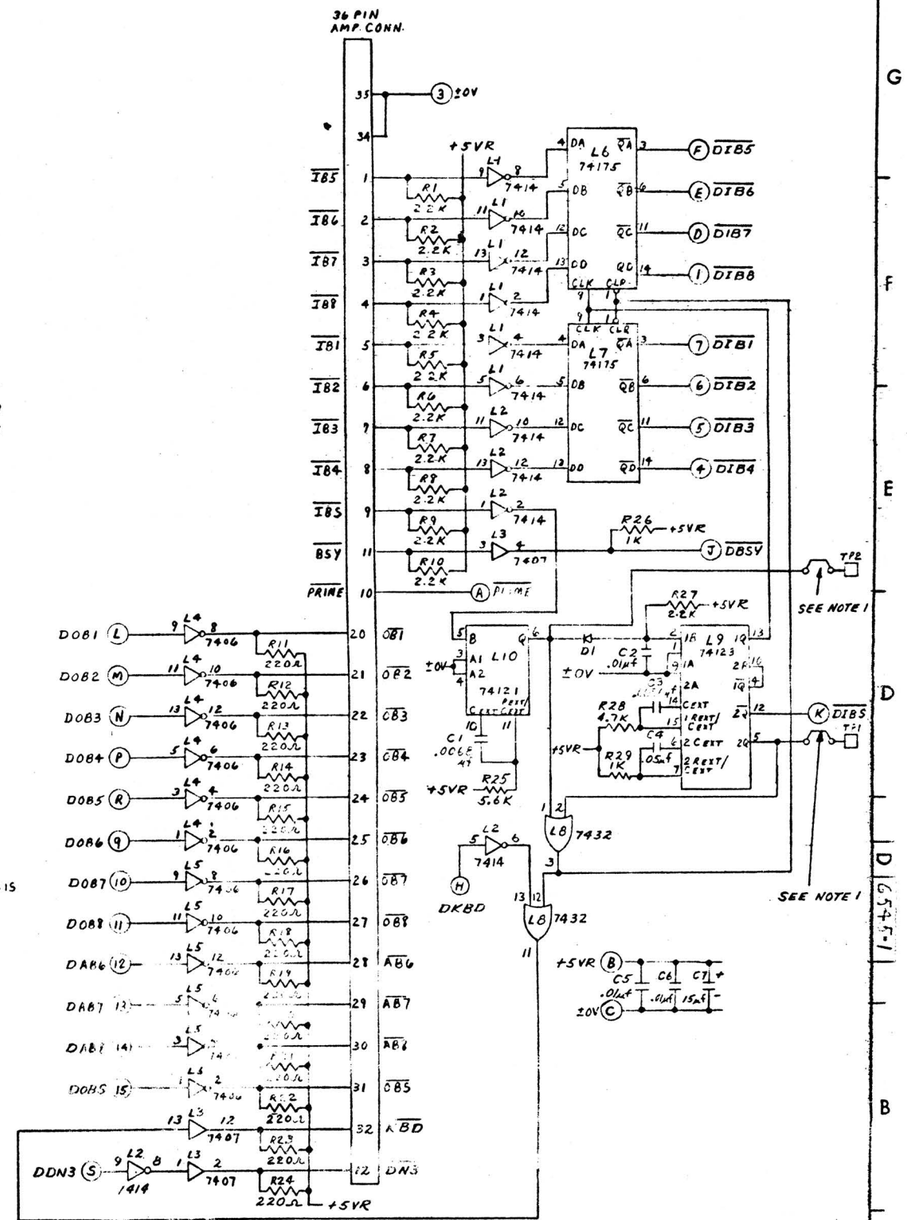
WANG PART NUMBER | SIZE D | DRAWING NUMBER 6544-1 | REV 0

D 6544-1









LOCATION	MANF PART NUMBER	MANF DRAWING NUMBER	NOMENCLATURE OR DESCRIPTION	QTY PER ASSY
				4
	510-6545		6545 PC BOARD	1
L10	74121 IC			1
L4,5	7406			2
L3	7407			1
L9	74123			1
L8	7432			1
L6,7	74175			2
L1,2	7414 IC			2
	380-1001 48		30V SIL DIODE	1
	350-1038		57-40360 CONN NON-HI-BARRIER	1

NOTES: 1. VENDOR ITEM FOR PROCUREMENT OF NON-CONTROLLED SOURCE ITEMS, SEE APPLICATION SECTION OF SOURCE CONTROL DRAWING. 2. REF: REFERENCE. 3. MTG: MOUNTING.

PL 6545-4
210-6545 SHEET 2 OF 3

NOTES: ALL RESISTORS ¼W 10% UNLESS SPECIFIED OTHERWISE

LOCATION	MANF PART NUMBER	MANF DRAWING NUMBER	NOMENCLATURE OR DESCRIPTION	QTY PER ASSY
				4
C1,2	300-1903		.01 UF 25V CER CAP	4
C3	300-4022		15 UF 20V TANT CAP	1
C4	300-1900		.05 UF 12V CER CAP	1
R11-19,22,24	330-2022		220 Ω	11
R1-10	- 3022		2.2 K	10
R26,27	- 3047		4.7 K	2
R28	330-3056		5.6 K	1
R29	330-3010		1 K	1
C6	100-1911		.0068µf CER.	1
C5,7	100-1915		.0056µf CER.	2
X		D6545-1	SCHEMATIC	

PL 6545-4
210-6545 SHEET 3 OF 3

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

NOTE
1. JUMPERS ON TEST POINTS TP1 AND TP2 SHALL BE DISCONNECTED AFTER TESTING

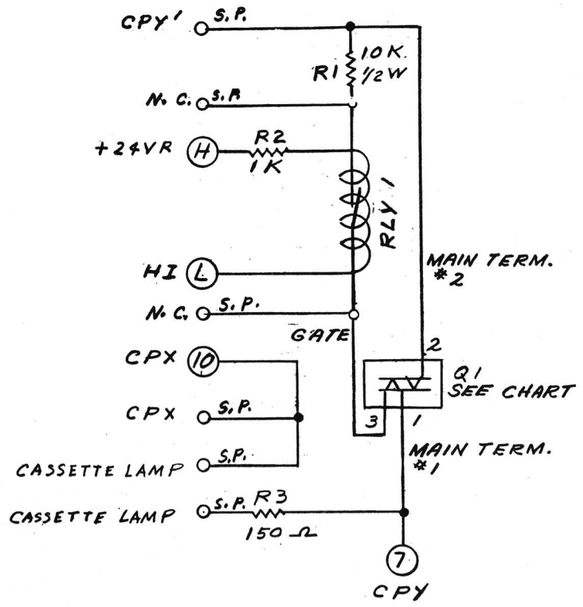
REV	REVISION	BY	DATE
A	REVISED PER ECA 0687 AFFID.	M.F	5-6-74
B	REVISED PER ECA 0915 AFFID	M.F	5-3-74
C	CHANGED PER DCP-10820 AFFID	SR	6-13-74

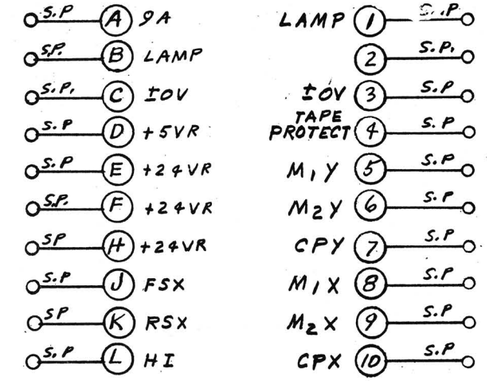
WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN	APP.
- - - +	MF 7.1.72	
	CHECKED	APP.

TITLE: SCHEMATIC LOGIBLOC #6545 DISK MULTIPLEXER

SHT 1 OF 1 | DWG. NO. D 6545-1 | REV. D





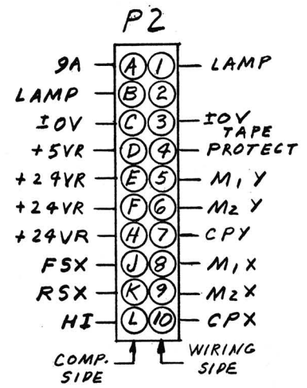
COMP.	W.L. PART No.
R1	331-4010
R2	330-3010
R3	330-2015
Q1	375-3002
RLY. 1	320-0047

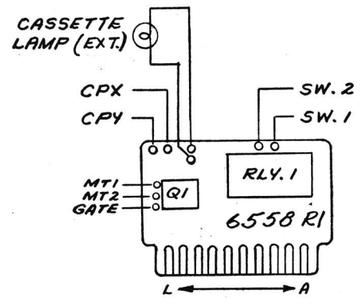
NOTE:
1. FOR INTERCONNECTING DIAGRAM SEE DWG. D5996-123

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		





"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

NO	REVISION	DATE	BY
A	REVISED PER E.C.N. #4395 & #4359 APP: D Richards	10/17/74	PB
0	RELEASE TO PROD. PER D.C.R. #4278 ADD'D.	11-21-74	F.S.S.
1/1	REVISED: PER E.C.N. #4552 & R.F.A. #1311-Fisher ADD'D	2-8-75	F.S.S.

E-REV 1

WANG PART NO.	ITEM	QTY.	NAME
Qty. Per Unit / FIRST USED ON / ASSY USED ON			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
SCALE SHT 4 OF 5

MATERIAL	DESCRIPTION

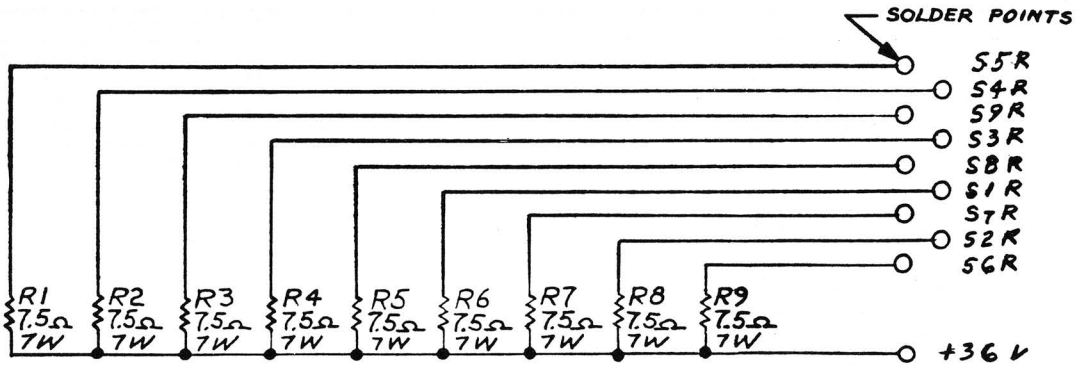
BY	DATE	APPROVED BY	DATE
DWN	7/27/74	E ENGR	
CHK	10/29-74	M ENGR	
E. C. CONTROL		MFG ENGR	

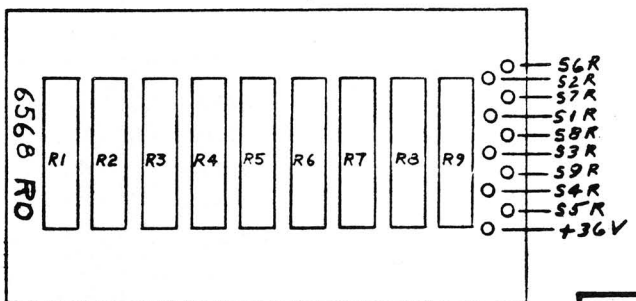
TITLE SCHEMATIC, AUTO ON/OFF 6558

210-6558	C	6558	1
WANG PART NUMBER	SIZE	DRAWING NUMBER	REV

8559 C

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

REVISIONS	BY	DATE	
A	E.K.	3-21-75	ORIGINATED PER W.O. 401 APPD.
0	G.D.	5-19-75	REL. TO PROD. APPD. 5-15-75
1	JB	8-14-75	REV. PER R.F.A. #1796 APPD.

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

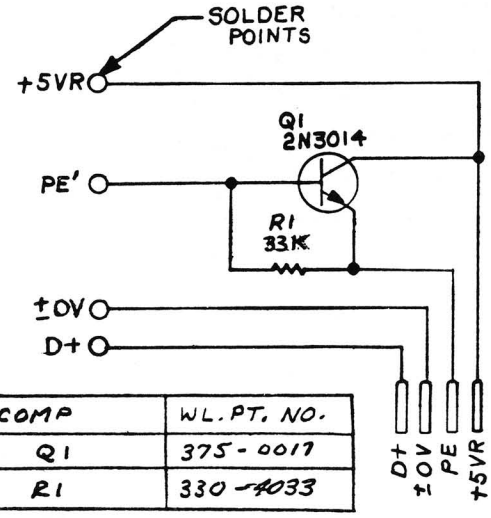
MODEL NO.	DRAWN		APPD	
2272	E.K.	4-8-75	R. Chen	8-20-75
	CHECKED G.D.	4/16/75	APPD	

TITLE: SCHEMATIC LOGIBLOC RESISTOR BRACKET

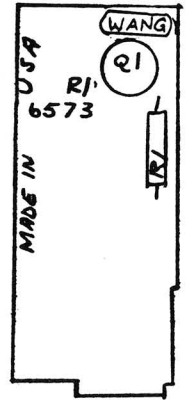
W.O. NO.	SCALE	DWG. NO.	REV
401	NONE	A 6568	1

210-6568

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 Richan	1/19/75	EBA
1/1	RESISTOR R1 WAS 100K 1/4W, PER ECN #4522 5/28/75 APP'D: Robert Chen	5-21-75	EBA

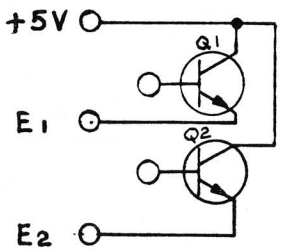
WANG LABORATORIES, INC.
TEWKSBURY, MASS. U. S. A.

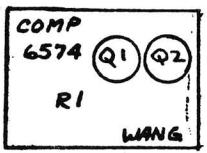
MODEL NO.	DRAWN		APPD	
MP 71	CHECKED	10-18-74	APPD	

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.
O

WLI# 210-6574

NO.	REVISION	BY	DATE
0	REVISED PER D.C.R. #2351 APP'D H.G.	E.S.	8/24/
1/0	REV. PER RFA # 176	J.W.R.	9/75

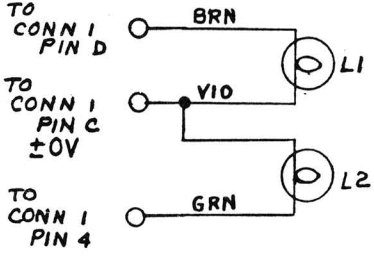
WANG LABORATORIES, INC.
TEWKSBURY, MASS. U. S. A.

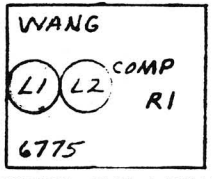
MODEL NO.	DRAWN		APPD	
2221-W	CHECKED	9-10-74 / 11.9.74	APPD	

TITLE
PHOTOTRANSISTOR MATRIX PRINTER

W.O. NO.	SCALE	DWG. NO.	REV
		A 6574	O

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 H.S.	F.S.	11/8/74
%	REL TO PROD APP'D HG 8-4-75	G.D	3/26/75

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

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DO NOT SCALE

HOLE LEGEND

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

IDENT	DESCRIPTION	QTY
A		

LOCATION	W.L. PART NO.	FROM NO. ±5V	FROM NO. +5VR
L1,3,11,21	376-0004	7	14
L2,9,10,19,20	-0006	8	16
L4	-0003	7	14
L5,12,39	-0015	11	4
L6,8,13,17,33,35	-0002	7	14
L7,14,19,23, 26,34,36	-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	-0008	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, 62,65,70,72,74,76,63	-3047
R15,19,69	-4018
R16,55	-4056
R54	-4022
R24,26,30,41,52,66	-1010
R 30,47	-4010
R26,34,53	-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

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

CONN.1

T.P.4	A 1		
+5VR	B 2		FT
±0V	C 3		CIP
DT1	D 4		DT8
DT2	E 5		DT5
DT3	F 6		DT6
IP	H 7		DT7
DT8	J 8		DSTB
T.P.3	K 9		T.P.
CRI	L 10		BUSY
ACKLG	M 11		SLCT
SFB	N 12		POWER-ON PRIME
SPARE FUNCTION	P 13		FFP
VTP	R 14		LFP
SPARE FUNCTION	S 15		SPARE FUNCTION

CONN.2

EC	A 1		EC
CLR	B 2		
LFD	C 3		SPARE
LFE	D 4		SL
MAL FUNCTION	E 5		
CR6	F 6		T.P.
b7	H 7		PF
CF	J 8		TP6
COVER OPEN	K 9		
PAPER OUT	L 10		SFM
RS	M 11		SELECT SW.
ENDP	N 12		CR6
b5	P 13		b3
b4	R 14		b6
b2	S 15		b1

CONN.3

-12V	A 1		SLCTR
	B 2		T.P.5
FAULT	C 3		
ALARM LIGHT	D 4		T.P.2
SPKR	E 5		CLRM
CLCR	F 6		PS
	H 7		
PAPER OUT	J 8		SELECT LIGHT
	K 9		OSCXT
PO	L 10		RD
RB	M 11		SELECT SW. OFF
TIME METER	N 12		T.P.1
	P 13		±0V
	R 14		-5VR
FORM OVER-RIDE	S 15		

COMP. SIDE — WIRING SIDE

COMPONENT LAYOUT

.05uf

C28 C29 C30 C31 C32 C33 C34 C35 C36 C37 C38 C40

+5V ±0V -12V

E REV 8

REVISION	BY	DATE	APPROVED BY	DATE

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
FIRST USED ON	ASSY USED ON				

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

MATERIAL	MODEL NO. 72	DRWN	ENGR
	SEE ENGR. SPECIFICATIONS NO.	CHK	ENGR
		E.C. CONTROL	MFG ENGR
FINISH	TOL. EX. AS MOLDED .XX ± .010 .XXX ± .005 ANG. ± 1°30' FINISH	TITLE	SCHEMATIC LOGIBLOC # 6576 DRIVE UNIT DATA STORAGE
SCALE	SIZE	210-6576	E 6576 8
		WANG PART NUMBER	SIZE DRAWING NUMBER REV

E 1276

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JUMPER

ADJUST FOR +5V (SW)

ADJUST FOR -12V (SW)

SIGNAL TERMINATIONS VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR

HOLE LEGEND

SIZE	QTY
.040 DIA.	18
.125 DIA.	3
.161 DIA.	2

SIGNAL	CONN. 1	CONN. 2	CONN. 3
+12V(SW)	A1		
+5VR	B1		
+24V	C1		
MD	D1		
MS1	K1		
TP5	L1		
PEPE	M1		
FFD+	N1		
FFRE	P1		
VTPE	R1		
AY	S1		
-12V(SW)	A2		
TP3	B2		
TACH+	C2		
TACH-	D2		
+12V	E2		
24V(RET.)	N2		
MS2	K2		
MD2	L2		
PEPE-	M2		
VTD+	N2		
BY	S2		
PPB		A1	
CR1		C1	
VTP		D1	
TP4		E1	
SW0		N1	
SW1		J1	
CTR		K1	
SW2		L1	
FFM		M1	
CFM		N1	
LFM		P1	
LFD2		S1	
SFM			A1
SL			B1
RB			C1
RS			D1
PP			E1
FT			F1
FFP			H1
LFP			J1
LFD			L1
WS			L2
RD			M2
PB			N2
TP1			P2
EF			R2

LOCATION	WL. PART No	ΣDV	+5VR
L1,8,9	376-0074	—	—
L2	376-0055	7	1
L3,10,17,21,26,28,29,30,31	376-0002	7	1
L4,14,15,16,19,22,23	376-0003	7	1
L5,12,24,27	376-0010	7	1
L6	376-0025	7	1
L7	376-0126	1	8
L11,13	376-0005	11	4
L18	376-0028	7	1
L20,	376-0039	7	1
L25	376 0104	8	16

COMPONENT	WL. PART No
R1, 77, 82, 107	331-2010
R2, 3,	330-4028
R4, 23	330-4010
R5	330-4016
R6	330-5015
R7, 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	330-3049
R14	330-5010
R15, 57, 60, 71, 72	330-3022
R19, 42, 44, 46, 48, 50, 69, 75	330-1010
R34	331-8028
R12	330-5036
R99, -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
R91, 92, 93, 94	330-2047
R65, 68	333-1015
R73	330-6018
R74, 81, 86, 18	330-5012
R107	330-4039
R38	336-1017
R79, 21, 84	330-4022
R111	330-4056

COMPONENT	WL. 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

FOR INTERCONNECTION SEE DWG. 66635-999

COMPONENT LAYOUT

REV	DESCRIPTION	BY	DATE
A	REVISED PER ECN-1157		11/24/72
B	REVISED PER ECN-1251		2/5/73
C	REVISED PER ECN-1317		5/11/73
D	REVISED PER ECN-1375		7/1/73
E	REVISED PER ECN-1475		9/26/73

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	6/14/72 E ENGR
				CHK	11/1/72 M ENGR
				E C CONTROL	MFG ENGR
MATERIAL			MODEL NO 6635	TITLE SCHEMATIC-LOGIBLOC 6577 FORMAT AND PRINTING CONTROL	
FINISH			SEE DWING SPECIFICATIONS for		
			TOL. EX. AS NOTED .XX ± .010 .XXX ± .005 ANG. ± 1/2° FINISH	210-6577	E 6577 6
			SCALE	WANG PART NUMBER	SIZE DRAWING NUMBER REV

E-REV 4

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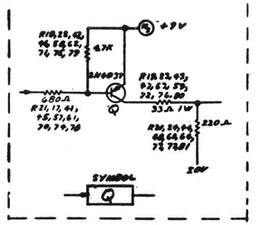
PREPRODUCTION

TYPICAL CIRCUIT



HOLE LEGEND

	HOLE DIA.	TOL.
DRILLED OR PUNCHED HOLE	0 to 10 in.	±.005
	10 to 100	±.007
TOLERANCES:	101 to 500	±.010

EQUIP.	DESCRIPTION	QTY.
A		

I.C LOCATION

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
LE1	377-0227	5	24
LE2	377-0228	5	24

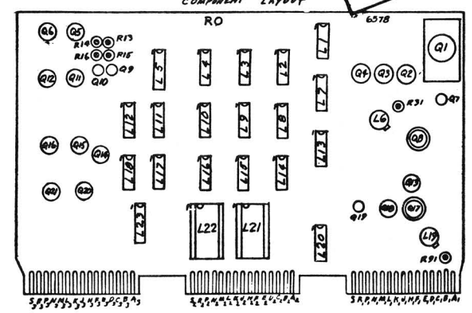
COMPONENT	W.L. PART No.
C1,2,6,7,10,11,16,17,21	300-1910
C3,4,5,8,9,18,19,22,23	300-1900
C12, 13	300-4002
C14	300-1906
C15	300-1903
C20, 24, 25, 26, 27	300-4021

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
Q 7, 19	375-0017
Q9, 10	375-1011
R1	332-2047
R2	330-4012
R3, 11, 30, 36, 37, 38, 39, 40, 51, 52, 54, 93, 94	330-3028
R4, 7	332-2018
R5, 8	330-3056
R6, 65	330-3027
R9	330-3018
R10, 12, 28, 29, 35, 36, 42, 45, 47, 50, 53, 69, 78, 83, 87, 89	330-3047
R13, 14	336-4007
R15-16	336-1009
R17, 21, 41, 45, 57, 61, 70, 79, 78, 88	330-2068
R19, 23, 63, 67, 59, 63, 72, 74, 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	330-2041
R83	330-1022
R84	330-2053
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

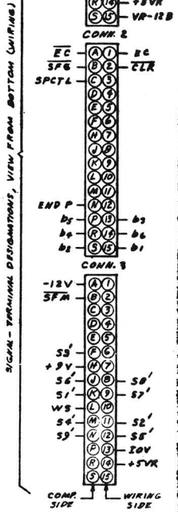
ECN

14134
KFA
4578
NO. PENDING

COMPONENT LAYOUT



CONN. 1



CONN. 2

CONN. 3

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
			WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.		
			MATERIAL	MODEL NO MP-71	
				SEE ENGRG SPECIFICATIONS No.	
			FINISH	TOL EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH	
				SCALE SHT 1 OF 6	WANG PART NUMBER 210-6578 SIZE E DRAWING NUMBER 6578 REV C

BY	DATE	APPROVED BY	DATE
DWN	4/4/75	E ENGR	
CHK	4-7-75	M ENGR	
E C CONTROL		MFG ENGR	

TITLE SCHEMATIC, LOGIBLOCK 6578 POWER REGULATOR, CHARACTER AND PRINTER CONTROL

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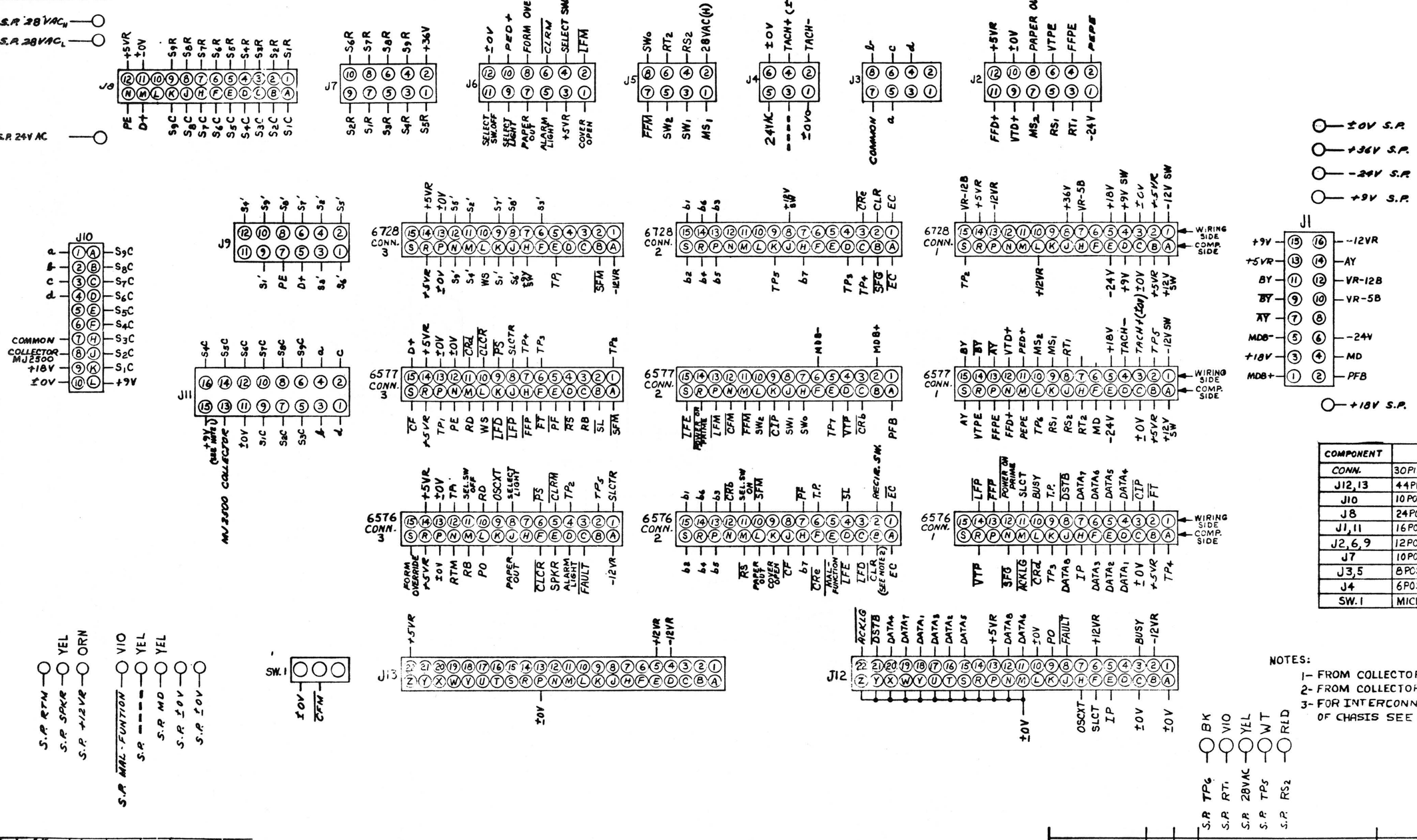
DO NOT SCALE

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.	30PIN PC SOLDER TYPE (CJ/AMP)
J12,13	44PIN CONN. 50-44C-20
J10	10POS. CONN. 225-21021-110 PC
J8	24POS. CONN 50-24B-10 CJ
J1,11	16POS. PIN HEADER ASSY. AMP 350-2141
J2,6,9	12POS. PIN HEADER ASSY. AMP 350213-1
J7	10POS. PIN HEADER ASSY. AMP 1-380991-0
J3,5	8POS. PIN HEADER ASSY. AMP 350212-1
J4	6POS. 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

NO.	REVISION	DATE	BY
0	REVISED PER RFA-1539, 1671A MARKED-UP RUN LIST. APP'D	3-13-75	BK
1	REVISED PER ECN# 4765 & ECN# 4801 & 4829 APPD	5/19/75	G.D.
2	REVISED PER ECN# 4860 APPD	6-11-75	G.D.
3	REVISED PER ECN# 4912 APP'D	7-3-75	S.C.

E REV 2

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	2-4-75	ENGR	
CHK		M ENGR	
E C CONTROL		MFG ENGR	

MATERIAL — MODEL NO 2200VP — SEE ENGRG SPECIFICATIONS No. —
FINISH — TOL EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH 125 — SCALE 1/4 — SHT 4 OF 5

TITLE: MOTHER BOARD

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
210-6579	D	6579	3

6579 D

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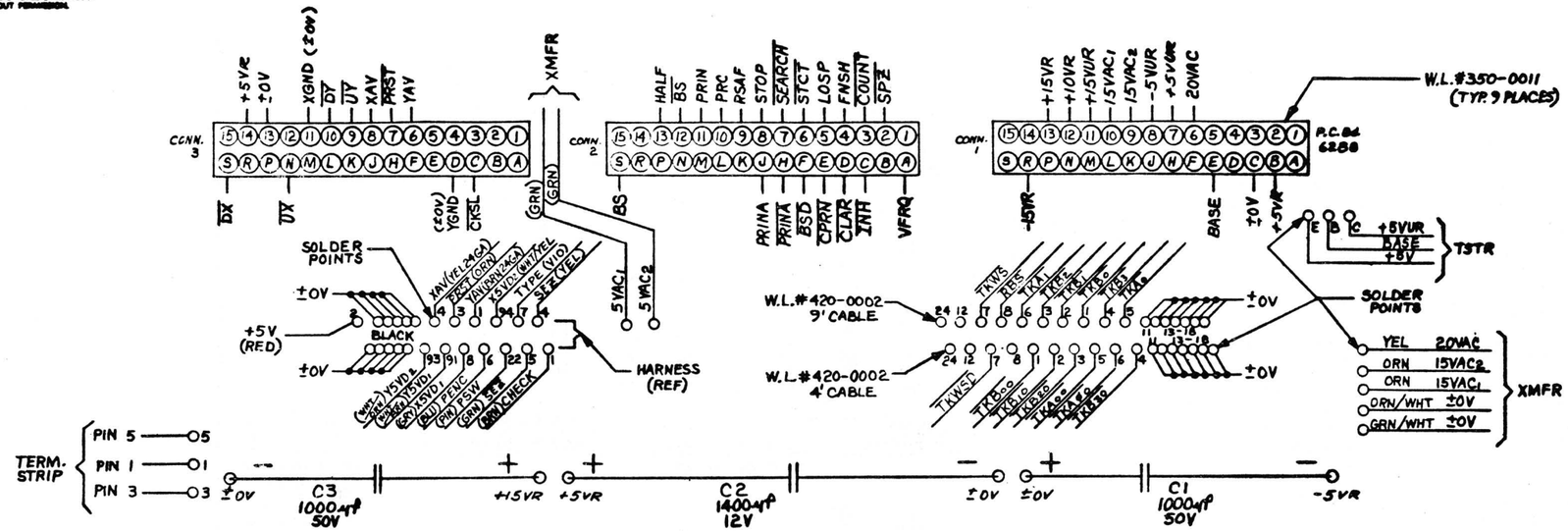
DO NOT SCALE

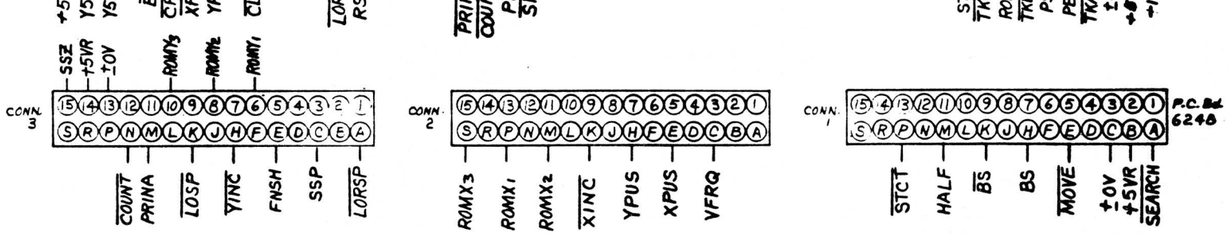
HOLE LEGEND

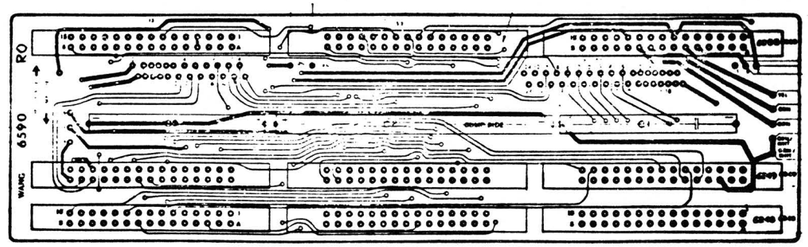
	HOLE DIA.	TOL.
DRILLED OR PUNCHED HOLE TOLERANCES	.015 to .125	± .003
	.126 to .250	± .004
	.251 to .500	± .005

IDENT	DESCRIPTION	QTY
A		



COMPONENT	W.L. PART NO.
C1,3	300-3055
C2	300-3061
CONNECTORS	350-0011





COMPONENT LAYOUT

REVISION	BY	DATE	APPROVED
0	RJS	6-10	
1	RJS	11-12-74	
2	GD	12-24-74	

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	9-9-74	E ENGR	
CHK	11-16-74	M ENGR	
E C CONTROL		MFG ENGR	

MATERIAL

MODEL NO 612/712/2212

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

TITLE MOTHERBOARD FOR PLOTTER

210-6590 WANG PART NUMBER | D SIZE | 6590 DRAWING NUMBER | 2 REV.

1-0669 D

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DO NOT SCALE

HOLE LEGEND

SYMBOL	DESCRIPTION	QTY
	DRILLED OR PUNCHED HOLE TOLERANCES: HOLE DIA. TOL. 0.125 to .125 ± .002; .126 to .250 ± .003; .251 to .500 ± .005	
A		

WANG 6594 15 R1

10MHz

L5 7404 · L6 7404 · L5 7404 → CLK

R1 220Ω · R2 220Ω · R3 180Ω · R4 1.8K · C1 15pF

R∅ R1 R2 R3 R4 R5 R6 R7 — L14 74157 — 4Y 3Y

M∅ M1 M2 M3 — L6 74157 — 4Y 3Y

M4 M5 M6 M7 — L1 74182 — 4Y 3Y

A∅ K∅ REWIND STAT LPC2 A1 READY STAT K1 SEM — L25 74153

A2 K2 EDT STAT CRB STAT A3 BOT STAT K3 WDT STAT — L16 74153

OBS.STAT

SHIFT.4

A4 K4 FILE PRO STAT A5 K5 XRC — L7 74153

A6 K6 CRC A7 LRC X7 RDS STAT — L26 74153

L15 74181 · L2 74181 · L17 9321 · L27 9321 · L19 7476 · L10A 7476

+5VR R5 470 · R9 4.7K · R22 4.7K · R6 12K · R7 15K · C2 15µF · JUMPER

L23 74193 · L13 74193 · L8 74153 · L9 74155

L32 7404 · L10 7400 · L24 7404 · L12 7404 · L11 7400 · L29 7410 · L28 7400 · L31 7400 · L20 7400 · L18 7408 · L22 7405 · L30 7451 · L4 7451 · L33 7414

R10 R11 R12 R13 R15 R14 R16 R17 R18 R19 R20 R21 — L3 9334 (TYP16) — R10-14 2.5K · R15 470Ω · R16-21 3.3K

.01µF · 15µF 20V(TE) · +5V.P · 20V.

COMPONENT LAYOUT

LOCATION	W. L. PART NO.	TERM. NO. ±20V	TERM. NO. Vect+5V
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 48
XTAL	321-0008

CONN.1 — M1 +5VR +20V EDT STAT R1 REWIND STAT SEM A2 K2 C3 A3 C1 C∅ STD ADU — M5 M4 M∅ R∅ LRC2 FILE PRO STAT M3 K3 C2 A7 CRB STAT A1 A2 K2

CONN.2 — K3 LAUX CRC M4 C6 C7 R10 C5 C4 R15 R14 K5 MCDN — K BIT BIT A7 A6 A5 A4 K4 BIT BIT BIT MCDN A4 R9

CONN.3 — R13 P3 RDS STAT BRT BRØ VRC STI OBSS P4 R7 R6 R/W CLK — CNTRLT P1 BLC R3 R2 R1 CBSS C4 R5 R3 R2 C1 +20V +5VR CLK1

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

COMP. SIDE · WIRING SIDE

E.REY 0

REVISION	DESCRIPTION	DATE	APPROVED BY	DATE
A	REVISED PER RFA-3066/1334	1-31-73		
B	ADDED L33 & R21	3-16-73		
C	ADDED C8 & C9	4-4-73		
D	ADDED R22	4-5-73		
E	ADDED R22	4-5-73		

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	
				CHK	
				E.C. CONTROL	
			MODEL NO 2209	TITLE SCHEMATIC LOGIBLOC 6594 MICRO PROCESSOR	
			MATERIAL		
			FINISH		
			SCALE	SHT 4 OF 13	210-6594 · E · 6594 · 3

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DO NOT SCALE

HOLE LEGEND

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

IDENT	DESCRIPTION	QTY
A		

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

CONN. 1

M_1	A 1	M_5
+5VR	B 2	M_4
±0V	C 3	M_ϕ
T.P.	D 4	R_ϕ
R_1	E 5	
PRIME	F 6	
T.P.	H 7	
	J 8	M_3
	K 9	M_2
C_3	L 10	C_2
	M 11	M_7
C_1	N 12	
C_8	P 13	
IC_2	R 14	IC_1
IC_0	S 15	IC_7

CONN. 2

IC_6	A 1	
LAUX	B 2	$\overline{BR}$
	C 3	T.P.
M_6	D 4	
C_6	E 5	
C_7	F 6	
R_{10}	H 7	
C_5	J 8	
C_4	K 9	IC_ϕ
R_{15}	L 10	IC_9
R_{14}	M 11	
MA_1	N 12	
MCDN	P 13	MCUP
MA_3	R 14	MA_2
MA_0	S 15	R_9

CONN. 3

R_{13}	A 1	$\overline{PM}$
R_8	B 2	R_{12}
IC_5	C 3	$\overline{BLC}$
$\overline{BR_1}$	D 4	t_ϕ
$\overline{BR_\phi}$	E 5	R_2
T.P.	F 6	R_{11}
IC_4	H 7	T.P.
IC_3	J 8	t_4
R_4	K 9	R_5
R_7	L 10	R_3
R_6	M 11	t_2
R/W	N 12	t_1
	P 13	±0V
	R 14	+5VR
RS	S 15	-9V

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

COMP SIDE — WIRING SIDE

E-REV O

6595 RO

COMPONENT LAYOUT

REVISION							

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DO NOT SCALE

HOLE LOCATIONS
UNLESS OTHERWISE SPECIFIED ALL HOLES ARE DRILLED OR PUNCHED HOLE TOLERANCES:
.XX = ±.01
.XXX = ±.005
.XXXX = ±.0005

EIGHT	DESCRIPTION
A	

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 GND	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

J1

	S	15	
	R	14	
OB8	P	13	±0V
	N	12	CH. GND.
CRB	M	11	ENDI
OB5	L	10	RB
PRMS	K	9	CBS
OB7	J	8	IB5
OB6	H	7	IB8
OB5	F	6	IB6
OB4	E	5	IB1
OB3	D	4	IB7
OB2	C	3	IB5
OB1	B	2	IB3
IB4	A	1	IB2

COMPONENT LAYOUT

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

CONN.1: CH.GND, +5V, ±0V, PRIME, BCRC0, SEM, A0, TPT, A1, A2, A3 — R0, BCRC2, BCRC1, 2MSTR, KS0, KS1, C0, KS3, KS2

CONN.2: A5, BCRC3, LRC2, BCRC5, KS4, TP4, KS3, KS4, RDS, BCRCP, TP5, RBI — A0, WDP STA, KS7, A7, A6, TP6, TP1, TP8

CONN.3: BCRC0, BCRC4, CBSS, OBSS, VRC, ST1, WTCLK, CLK1 — R11, BCRC7, RDP, R2, DPS, LRCR, CBX, TP3, CRCS, ±0V, +5V

COMP. SIDE / WIRING SIDE

E REV. 1

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
DSGN			ENGR	
DWN			MFGR	
E.C. CONTROL			MFGR	

MATERIAL — MODEL NO 2209 — SEE ENGRG SPECIFICATIONS

FINISH

TOL. EX. AS NOTED: XX ±.01, XXX ±.005, XXXX ±.0005, ANG. ±1°, 30' MIN. FRACT. ±1/64

SCALE — SHT 4 OF 5

TITLE: SCHEMATIC LOGIBLOC 6596 I/O TERMINATOR

210-6596 | E | 6596 | 2

6596

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DO NOT SCALE

HOLE LEGEND

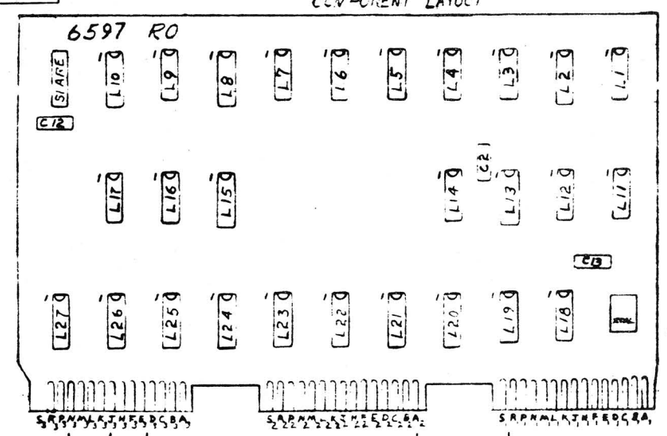
	HOLE DIA	TOL
DRILLED OR PUNCHED HOLE TOLERANCES	.0135 to .125	±.003
	.126 to .250	±.004
	.251 to .500	±.005

IDENT	DESCRIPTION	QTY
A		

LOCATION	W.L. PART NO.	TERM. NO. 10V	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	-0088	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
10 MHz XTAL	321-0008

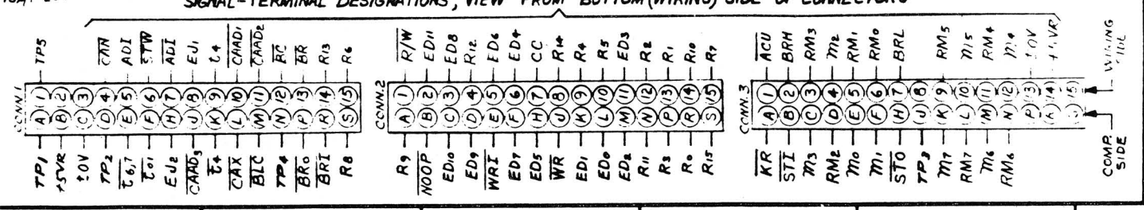
COMPONENT LAYOUT



E-REQ 0

ALL RESISTORS ¼ W. UNLESS OTHERWISE SPECIFIED

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



REVISION	NO	DATE	BY
REVISED PER ECR-1462 APPD.	0	4-7-75	LR
REVISED PER ECR-1569 APPD.	1	10-15-75	LR

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
FIRST USED ON	ASSY USED ON				
210-6597	210-6596				

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

	BY	DATE	APPROVED BY	DATE
MATERIAL	DWN		ELE ENGR	
	CHK		SYS ENGR	
MODEL NO	E C CONTROL		MFG ENGR	

SEE ENGRG SPECIFICATIONS No.

FINISH

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

SCALE SHT 1 OF 1

TITLE SCHEMATIC LOGIBLOC # 6597 16 WEB BIT MICROPROCESSOR

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.
210-6597	D	6597	1

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DO NOT SCALE

HOLE LEGEND

SIGNAL OR PUNCHED HOLE TOLERANCES	HOLE DIA.	TOL.
	.035 to .125	±.002
	.126 to .250	±.003
	.251 to .500	±.004

SIGHT	DESCRIPTION	QTY.
A		

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

J1

WRES	9	8	WD STR
WD₂	10	7	
	11	6	WDS
WD₄	12	5	
WD#	13	4	WDP
WD₁	14	3	
WD₇	15	2	WD₄
WD₃	16	1	

J2

REV	9	8	WRITE ENBL
FWD	10	7	
	11	6	REWIND
BOT	12	5	
	13	4	READY
EOT	14	3	
	15	2	REWIND
FILE PROT	16	1	

J3

RDST	9	8	RD₁
RD₆	10	7	
	11	6	RD#
RD₅	12	5	
	13	4	RD₇
RD₁	14	3	
RDP	15	2	RD₄
RD₃	16	1	

CONN.1

+5V	A	1	DPL
±0V	B	2	
	C	3	
	D	4	R0
	E	5	R1
	F	6	
BCRC#	H	7	
A8	J	8	BCRC8
K8	K	9	BCRC1
C1	L	10	C2
A3	M	11	KS3
C1	N	12	KS2
C#	P	13	A1
KS#	R	14	A#
KS1	S	15	K#

CONN.2

K3	A	1	K1
BCRC3	B	2	DPC
CRC	C	3	LRC
BCRC5	D	4	RRC
C6	E	5	KS7
C7	F	6	A7
KS6	H	7	A6
C5	J	8	A5
C4	K	9	A4
KS4	L	10	K4
KS5	M	11	K7
K5	N	12	RDG
BCRP	P	13	
K6	R	14	AX
	S	15	RBI

CONN.3

BCRC4	A	1	FM
BCRC6	B	2	BCRC7
RDS STAT	C	3	RDP
ACU	D	4	TW
	E	5	R2
	F	6	DPS
ST1	H	7	LRCR
CNTRLT	J	8	CBX
R4	K	9	R5
R7	L	10	R3
R6	M	11	T2
WRCLK	N	12	CRCS
	P	13	±0V
	R	14	+5V
	S	15	

COMP. SIDE — WIRING SIDE

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
L6,7,9,29,30,31,36	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
L17	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
R16-25	330-3010
R26-34	330-3047
R35	330-3022
R36,37,38,39,40,41-49	330-2033
C1	300-5001
C2	300-5004
C3-7,10,11	300-1900
C8,9	300-4022
R44,45	330-3083
L1,20	376-9003

6598 RO

COMPONENT LAYOUT

E. REV.

O

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
PLACE	FIRST USED ON	ASSY USED ON	WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.		

	BY	DATE	APPROVED BY	DATE
DWN				
CHK				
E.C. CONTROL				

MATERIAL

FINISH

MODEL NO 2209

WE ENGRG SPECIFICATIONS

TITLE SCHEMATIC DIAGRAM 6598 TAPE CONTROL

SIZE E

DWG. PART NO. 6598

SCALE

SHT. NO. OF

DIVISION

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DO NOT SCALE

HOLE LEGEND

	HOLE DIA	TOL
DRILLED OR PUNCHED HOLE TOLERANCES	.028 to .125	± .003
	.126 to .250	± .004
	.251 to .500	± .005

IDENT	DESCRIPTION	QTY.
A		

J1 J2 J3

PC BD. 6598

PC BD. 6596

PC BD. 6595

PC BD. 6594

PC BD. 6452

COMPONENT	W.L. PART NO.
30 PIN AMPHENOL CONN.	350-0011

CONN. 3 CONN. 2 CONN. 1

6599 RO

COMPONENT LAYOUT

NO.	REVISION	BY	DATE
11	REVISED PER DRE 209 APPD. SHD.	CBA	12/16/74
10	REVISED PER ENGRG. APPD. P. Roth	EGH	1-8-75

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	1-3-75	E ENGR	
CHK	1-31-75	M ENGR	
E.C. CONTROL		MFG ENGR	

MATERIAL

MODEL NO 2209

SEE ENGRG SPECIFICATIONS No.

FINISH

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

SCALE 1/1 SHT 4 OF 5

TITLE MOTHER BOARD

210-6599 | D | 6599 | 0

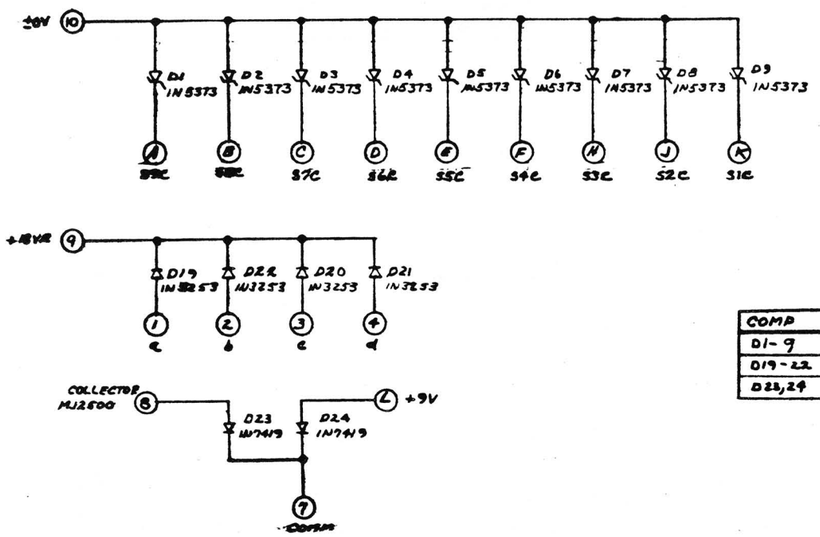
WANG PART NUMBER | SIZE | DRAWING NUMBER | REV.

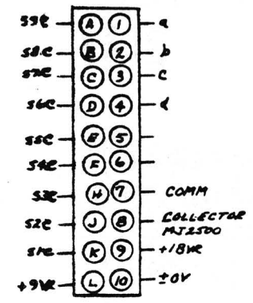
1-6599 D

DO NOT SCALE

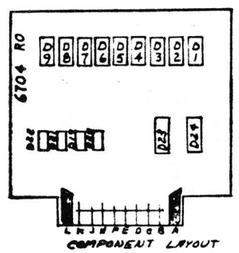
HOLE LEGEND		
DRILLED OR PUNCHED HOLE TOLERANCES	HOLE DIA.	TOL.
	.0135 to .125	± .003 / − .001
	.126 to .250	± .004 / − .001
	.251 to .500	± .005 / − .001

ELEMT.	DESCRIPTION	QTY
A		





COMP	W.L. NO
D1-9	380-2131
D19-22	380-3003
D23,24	380-3002



COMPONENT LAYOUT

E-REV 1

REVISION	BY	DATE
NO.		
0	REV PER ECN-4908	6-25-75
1	WD. NO "925" CHANGED TO "2272"	7-17-75

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION

Dwg. For Used	FIRST USED ON	ASSY USED ON

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 2272 — SEE ENGRG SPECIFICATIONS No.

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

TITLE SCHEMATIC LOGIBLOC FOR 6704 DIODE BOARD

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
210-6704	C	6704	0

SCALE — SHT 4 OF 6

6704 C

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MOUNTED EXTERNALLY

8 PLUG JONES STRIP

FAN

115 VAC DISK #2

115 VAC DISK #3

115 VAC DISK #1

SWITCH 115/230

4A

115/220 VAC

MMC 5121

P2

J2 10 PIN CONNECTOR

LOOSE DISCONNECT

MOUNTED ON HEAT SINK

P3

J3

12 PIN CONN.

10 MHZ XTAL

2200 CONN. P1 J1

STAR HEAT SINK

2N4234

D32 IN758A

D33 GE415

D34 GE415

D35 EM403

D36 EM403

D45 IN758A

D46 SIL.

D47 SIL. IN759A

D48 SIL.

D49 SIL.

D38 IN4742

D39 EM403

D40 EM403

D41 IN753

D37 IN751

Q1 2N4234

Q2 2N3725

Q3 2N3725

Q4 2N3301

Q5 2N3904

Q6 2N5956

Q7 2N5956

Q8 SIL.

Q9 SIL.

IN1200A

IN1200A

JUMPER

CNTRLG 2

CNTRLG2

WCLK

WCLK-1

WTG

CKC

CAPM

LAUX

ADI

STI

T4

T01

T78

R/W

CASTO

CA

CWC

INH

GER.

SCMS

CASTIS

CABYS

IOMS

WRDYS

HLDS

KR

ACU

ST1

KS0

KS1

KS2

KS3

KS4

KS5

KS6

KS7

K1

K2

K3

K4

K5

K6

K7

ADO

AD1

AD2

AD3

AD4

AD5

AD6

AD7

T.P.

+5VR

+12V

-12V

-9V

-5VR

±0V

HOLE LEGEND

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

IDENT.	DESCRIPTION	QTY.
A		

REVISION	BY	DATE	APPROVED BY	DATE
A ORIGINATED PER ECN # 5042		5-3-74		
B REVISED PER ECO #5051		5-31-74		
C REVISED PER ECO #5069		7-1-74		
D REVISED PER ECO #5062		7-15-74		
E REVISED PER ECO #5062		8-7-74		
F REVISED PER ECO #5062		8-7-74		
G REVISED PER ECO #5062		8-7-74		
H REVISED PER ECO #5062		8-7-74		
J REVISED PER ECN #5062		9-13-74		
K REVISED PER ECO #5062		9-26-74		
L REVISED PER ECN #5062		10-7-74		
M REVISED PER ECO #5062		10-7-74		
N REVISED PER ECO #5062		10-7-74		
P REVISED PER ECN #5062		11-15-74		
R REVISED PER ECO #5062		12-6-74		
S REVISED PER ECO #5062		12-6-74		

WANG PART NO.	ITEM	QTY	NAME
DASH NO.	FIRST USED ON	ASSY USED ON	

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

MATERIAL	MODEL NO. WCS - FLOPPY
SEE ENGRG SPECIFICATIONS No.	
FINISH	TOL. EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1/30 FINISH
SCALE	

MATERIAL		DESCRIPTION	
DWN A.S.	6-21-74	E ENGR	
CHK C.L.	6-3-75	M ENGR	
E.C. CONTROL		MFG ENGR	

TITLE SCHEMATIC LOGIBLOC MOTHER BD. & POWER REGULATION

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.
210-6716	E	6718	

SH 1 OF 3

E-REV 5

8/19

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DO NOT SCALE

HOLE LEGEND		
	HOLE DIA.	TOL.
-DRILLED OR PUNCHED HOLE TOLERANCES	.0135 to .125	± .003 .001
	.126 to .250	± .004 .002
	.251 to .500	± .005 .003

IDENT	DESCRIPTION	QTY
A		

A4 PC 6766 FROM DRIVE #1 — A5 PC 6766 FROM DRIVE #2 — A6 PC 6766 FROM DRIVE #3

+5VR, +24V, -5VR, ±0V

INPUT DISKETTE DRIVE #1 / #2 / #3 — A B C D E F H J K L M N P R S

680Ω R78, 680Ω R79, 2.7K R80, 2.2K R81, 2.2K R82, 2.2K R83 +5VR

WCLK +1, WCLK, BSY, HD DIR, WTG, RDG, CNTRL 1, CNTRL 2, FIR, HDST, WTG, WCD, RCLK, RDDA, WP, LDHD, RCLK, DROP, FIO, RDV, TKO, DK1, DK2, DK3, HLD1, HLD2, HLD3, SCM1, SCM2, SCM3, SSCM1, SSCM2, SSCM3, 1X1, 1X2, 1X3, STR, SEL, SCT0, SCT1, SCT2, SCT3, HLD, SCM, SIG, SIGG, IC0, IC1, IC2, IC3, IC4, IC5, IC6, IC7, IC8, RS, RO, R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100, R101, R102, R103, R104, R105, R106, R107, R108, R109, R110, R111, R112, R113, R114, R115, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, D42, D43, D44, D49, L00, L03, L04, L05, L06, L07, L08, L09, L10, L11, L12, L13, L14, L15, L16, L17, L18, L19, L20, L21, L22, L23, L24, L25, L26, L27, L28, L29, L30, L31, L32, L33, L34, L35, L36, L37, L38, L39, L40, L41, L42,

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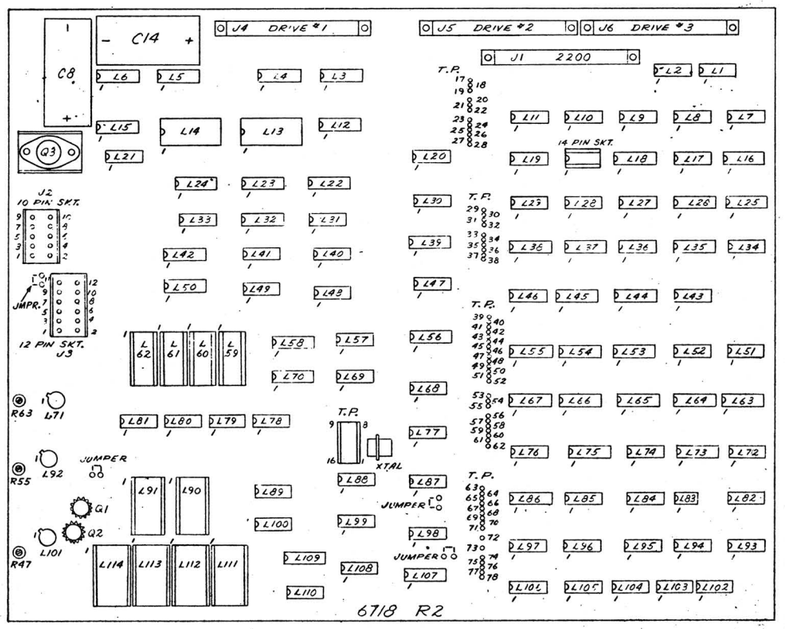
DO NOT SCALE

HOLE LEGEND

	HOLE DIA.	TOL.
DRILLED OR PUNCHED HOLE TOLERANCES:	.0135 to .125	+.002 -.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, 86, 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	330-2018
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 (BIRTCHTER)	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		F11, 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, E2	
L69	B10, E8, D3	
L70	B8	
L71	C12	
L72		H11, G13, G10
L73		H10
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	BY	DATE	APPROVED
A			
B			
C			
D			
E			
F			
G			
H			

WANG PART NO.	ITEM	QTY.	NAME
			WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.
MATERIAL			MODEL NO. SHUGART FLOPPY
FINISH			SEE ENGRG SPECIFICATIONS No.
SCALE			TOL. EX. AS NOTED .XX ± .010 FRAC ± 1/64 .XXX ± .005 ANG ± 1°30' FINISH √

MATERIAL	DESCRIPTION

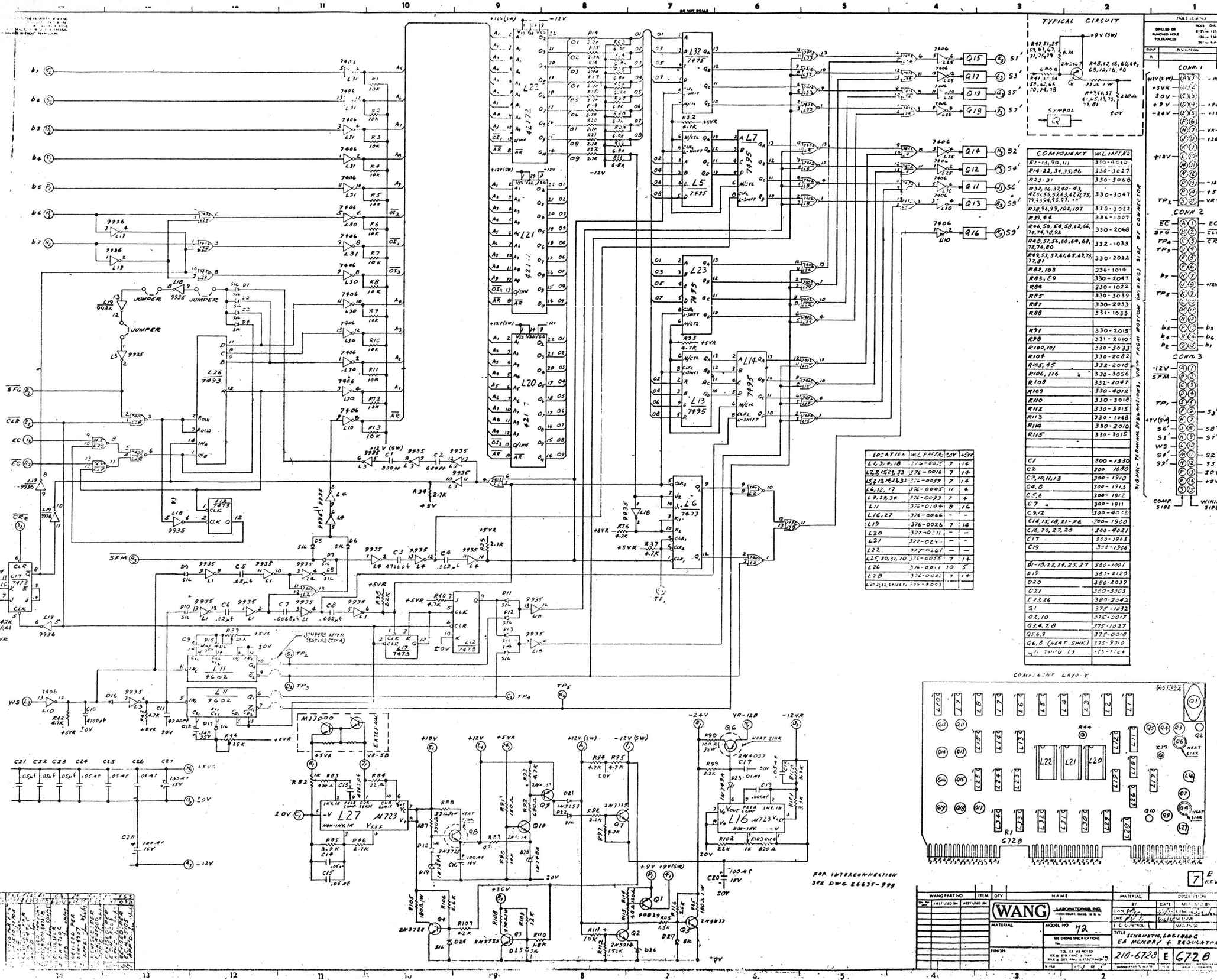
	BY	DATE	APPROVED BY	DATE
DWN	F.S.S.	3/26/75	E ENGR	
CHK			M ENGR	
E.C. CONTROL			MFG ENGR	

TITLE: MOTHER BOARD & PARTS LIST

SH 3 OF 3

210-6718 | E | 6718 | 8

WANG PART NUMBER | SIZE | DRAWING NUMBER | REV.



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, 99	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 1650
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	333-1903
C19	333-1906
D1-18, 22, 24, 25, 27	380-1001
D19	383-2120
D20	380-2039
D21	380-3303
L23, 26	320-2042
S1	375-1032
Q2, 10	375-2017
Q3, 4, 7, 8	375-1027
Q5, 6, 9	375-0018
Q6, 8 (HEAT SINK)	375-9510
W1 THRU 17	175-1164

LOCATION	W.L. PART NO.	SAW	+5VR
L1, 3, 9, 18	376-0025	7	14
L2, 8, 15, 24, 33	376-0016	7	14
L5, 12, 16, 23, 31	376-0059	7	14
L6, 12, 17	376-0005	11	6
L9, 29, 34	376-0093	7	6
L11	376-0104	8	16
L16, 27	376-0066	-	-
L19	376-0026	7	14
L20	377-0311	-	-
L21	377-0241	-	-
L22	377-0261	-	-
L25, 30, 31, 10	376-0055	7	14
L26	376-0011	10	5
L28	376-0002	7	14
L40 (2), 42 (2), 43 (2)	376-9003	-	-

NOTE LEGEND

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

DASH	DESCRIPTION	DATE
A		

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

WANG PART NO	ITEM	QTY	NAME	MATERIAL
			WANG LABORATORIES, INC.	
MATERIAL			MODEL NO 72	
			SEE ENGINE SPECIFICATIONS No.	
FINISH			TOL. EX. AS NOTED .XX ± .010 .XXX ± .005 ANG. ± 1/2°	

BY	DATE	APPD. BY
DRN	3/1/71	
CHK	3/1/71	
I. C. CONTROL		

TITLE: SCHEMATIC, LAYOUT & EA MEMORY E REGULATOR

210-6728	E	6728	6

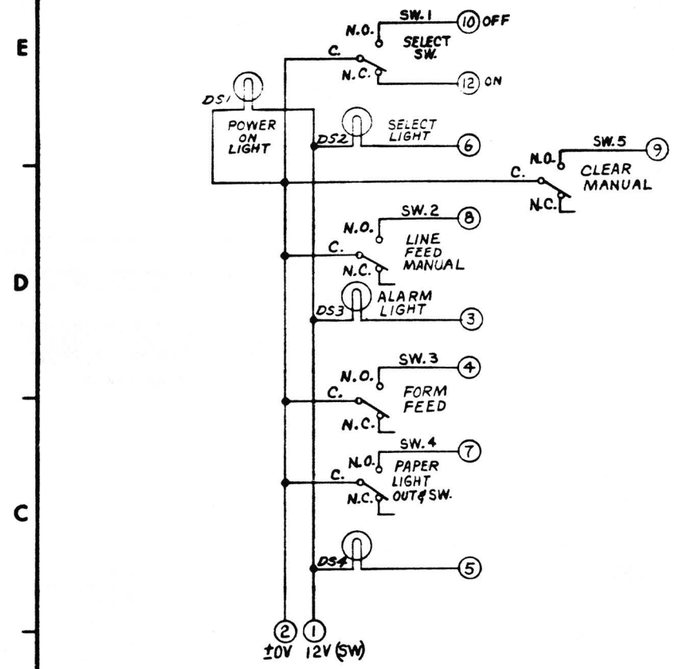
7 E REV

DO NOT SCALE

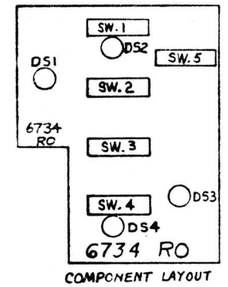
HOLE LEGEND

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

IDENT.	DESCRIPTION	QTY.
A		



COMPONENT	W.L. PART NO.
SW.1 - SW.5	325-2305
DS1 - DS4	370-0015



COMPONENT LAYOUT

E REV
0

REVISION	BY	DATE
A	G.D.	5/16/75
ORIG PER W.C. 404 APP'D clm	A.E.	5-13-75
REL. TO PROD. APP'D: clm 5/16/75		

WANG PART NO	ITEM	QTY	NAME
DRAWING NO.	FIRST USED ON	ASSY USED ON	

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

MATERIAL

MATERIAL SPECIFICATIONS

FINISH

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. XX = .01 FRAC ± 1/64 XXX = .005 ANG ± 1°30' FINISH √

MATERIAL	DESCRIPTION

BY	DATE	APPROVED BY	DATE
DWN	5-13-75	E ENGR	
CHK	5/16/75	M ENGR	
E C CONTROL		MFG ENGR	

TITLE SCHEMATIC LOGIBLOC MATRIX PRINTER

210-6734	C	6734	0
WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.

SCALE | SHT OF

6734 C

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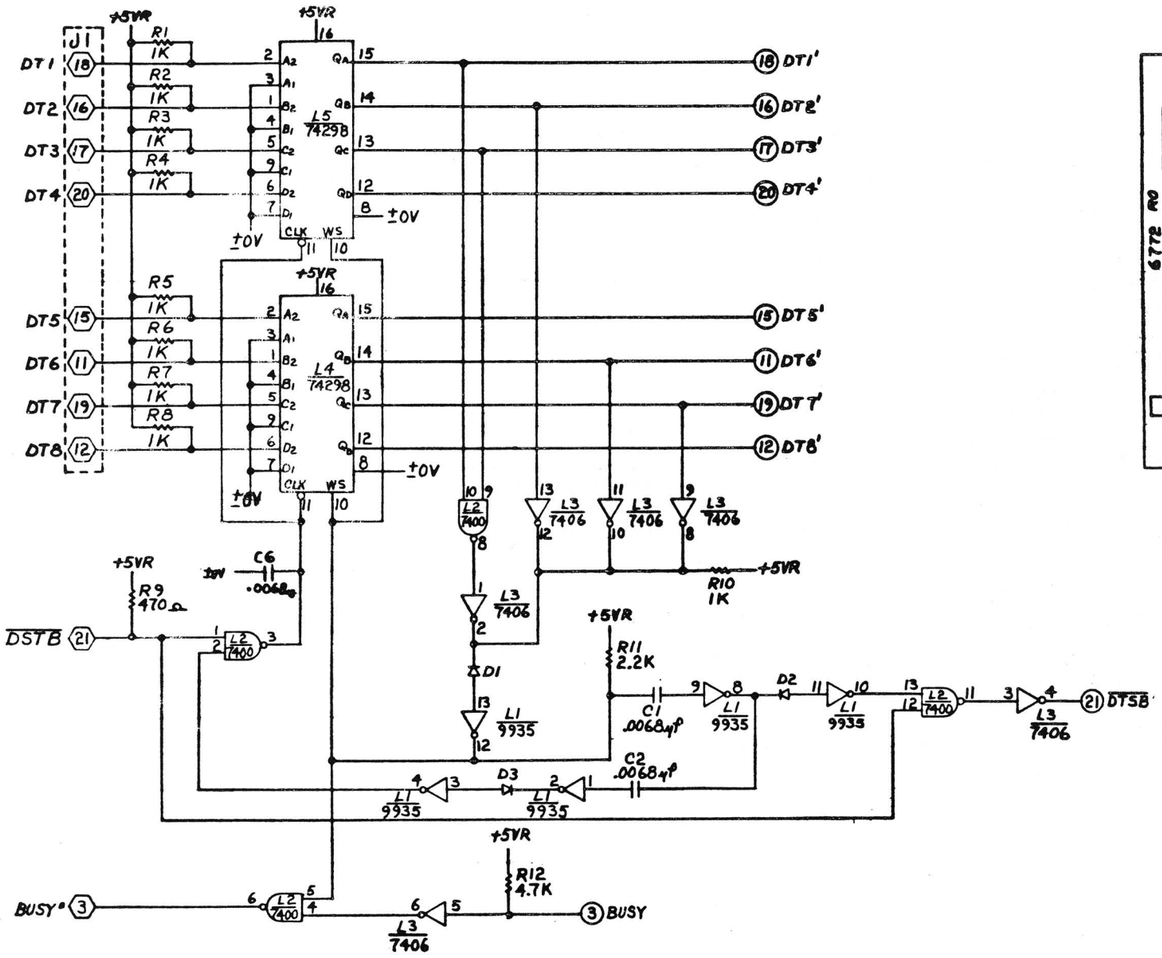
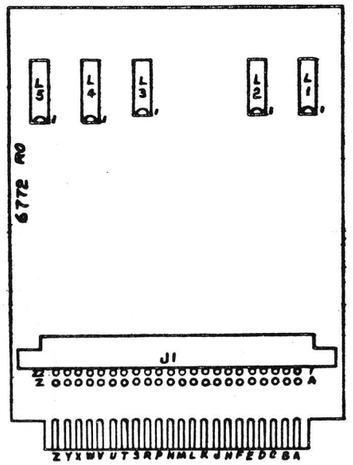
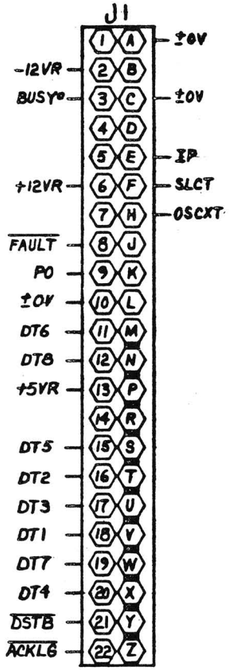
DO NOT SCALE



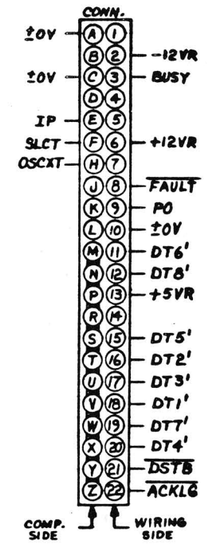




HOLE LEGEND

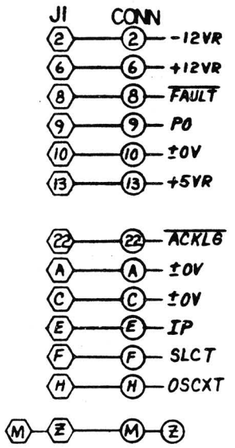
	HOLE DIA	TOL
DRILLED OR PUNCHED HOLE TOLERANCES	.0135 to .128	±
	.136 to .250	±
	.251 to .500	±

IDENT.	DESCRIPTION	QTY.
A		



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

REVISION	BY	DATE
REV. PER. RFA 6776 APPD Daniels	G.D.	6-5-75

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

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

MATERIAL

FINISH

MODEL NO 2221-W

SEE ENGRG SPECIFICATIONS No.

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

SCALE 2/1 SHT 4 OF 5

MATERIAL	DESCRIPTION

	BY	DATE	APPROVED BY	DATE
DWN J.K		7-25-75	E ENGR D. Daniels	8/5/75
CHK G.D.		7/24/75	M ENGR	
E C CONTROL			MFG ENGR	

TITLE SCHEMATIC LOGIBLOC QUICK RELEASE

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.
210-6772	D	6772	1

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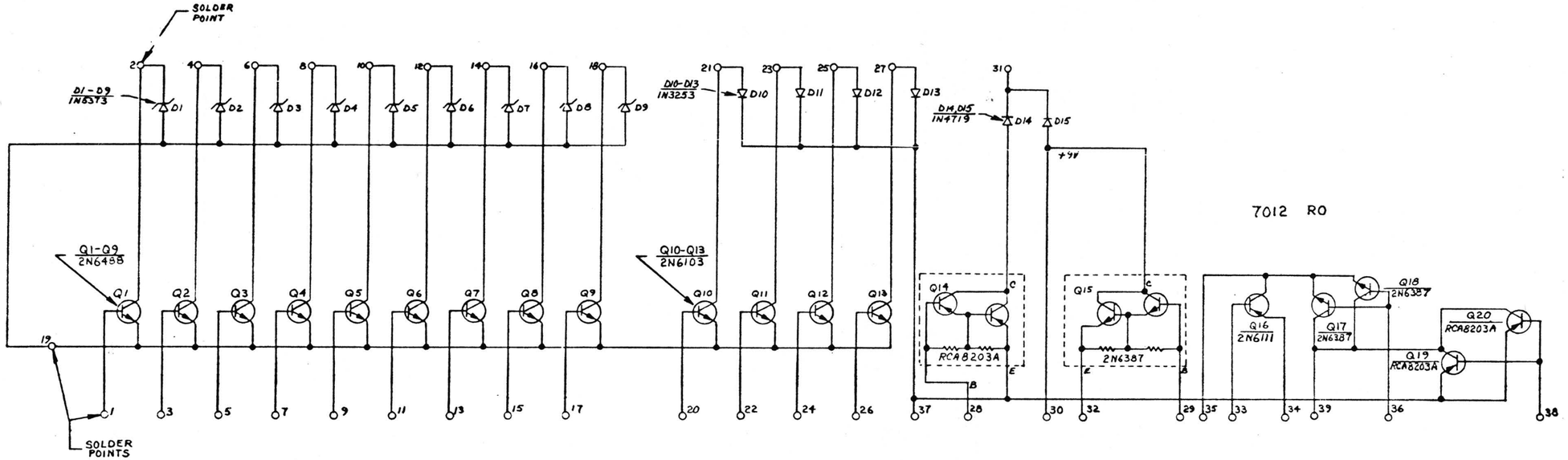
DO NOT SCALE

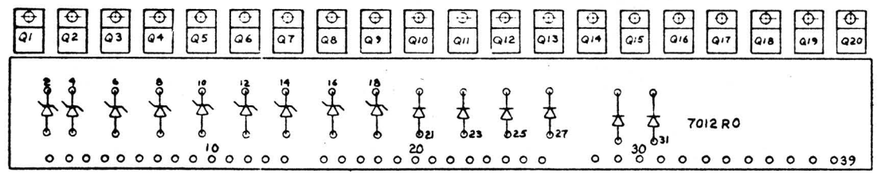
HOLE LEGEND

DRILLED OR PUNCHED HOLE TOLERANCES:	HOLE DIA	TOL
	.0135 to .125	± .003 ± .0015
	.126 to .250	± .004 ± .0015
	.251 to .500	± .005 ± .0015

IDENT	DESCRIPTION	QTY
A		



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	380-3002B



E-REV 0

REVISION	BY	DATE
CHNG. PER CHR E-948 ATTD Dec 1968	JK	12/6/68
0		

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
			WANG LABORATORIES, INC. TEWKSBURY MASS. U.S.A.		

BY	DATE	APPROVED BY	DATE
DWN J.K.	9-10-68	E ENGR R. Chan	12-6-68
CHK G.D.	12/12/68	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 1/2 SHT 2 OF 3

TITLE SCHEMATIC 103 BLDG POWER TRANSISTOR BOARD

210-7012 | D | 7012 | WANG PART NUMBER | SIZE | DRAWING NUMBER | REV.

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DO NOT SCALE

MOUNTED EXTERNALLY

8 LUG JONES STRIP

FAN

115 VAC DISK #2

115 VAC DISK #3

115 VAC DISK #1

SWITCH 115/220

115/220 VAC

MMC 5121

J2 10 PIN CONN.

J3 12 PIN CONN.

LOOSE DISCONNECT

402.51 375-1008

402.50 375-1022

2N5301

MOUNTED ON HEAT SINK

2200 CONN. P1 J1

2200 CONN. P1 J1

J10 14 PIN SOCKET

CH. GND.

+5VR

-12V

-5VR

+12V

±0V

CASTO

CASTIS

CASTIS

CAPM

CAVS

IOMS

WRDYS

HLDS

CAX

CWC

CKC

CLKG

WTG

WCLK

WCLK-1

LAUX

JUMPER

XTAL 10 MHZ

SEE VARIATION CHART SH. 5 OF 7

HOLE LEGEND

DRILLED OR PUNCHED HOLE TOLERANCES:	HOLE DIA.	TOL.
	.0135 to .113	±.003
	.136 to .250	±.004
	.251 to .500	±.005

IDENT.	DESCRIPTION	QTY.
A		

REV	DESCRIPTION	BY	DATE	APPROVED BY	DATE
01	ORIGINATED PER DWR 6032	F.S.S.	8-21-72		
02	REVISED PER ECO 6432	F.S.S.	10-27-72		
03	REVISED PER ECO 6603	F.S.S.	12-15-72		
04	REVISED PER ECO 6833	F.S.S.	2-7-73		
05	REVISED PER ECO 6833A	F.S.S.	4-10-73		

WANG PART NO.	ITEM	QTY.	NAME
DASH NO.	FIRST USED ON	ASSY USED ON	

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

MATERIAL	MODEL NO.	TITLE
SH 1 OF 3	SH. CART DISKETTE	SCHEMATIC LOGIBLOC MOTHER BD. & POWER REGULATION
SEE ENGRG SPECIFICATIONS No.		
FINISH	TOL. EX. AS NOTED XX ± .010 FRAC. ± 1/64 XXX ± .005 ANG. ± 1°30' FINISH	SEE VARIATION CHART SH. 5 OF 7
SCALE	WANG PART NUMBER	SIZE E DRAWING NUMBER 7018 REV. 4

DRAWN	F.S.S.	8-21-72
CHK.		
E.C. CONTROL		

E-REV 7018 0

E-REV 7018-1 0

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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		

P4 PC 6766 FROM DRIVE #1 — P5 PC 6766 FROM DRIVE #2 — P6 PC 6766 FROM DRIVE #3

INPUT DISKETTE DRIVE #1 / #2 / #3

VARIATION CHART

210 = 209	+ 377 OR 378
7018A — 7018 DELETE: SOCKETS L111, L112, L113, L114 (FOR -12V) USE 56 Ω ½W	L90-377-0315, L91=377-0316, L59-462 = 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 L59-462 = 377-0308

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	F.S.S.	92775	E ENGR	
CHK			M ENGR	
E C. CONTROL			MFG ENGR	

MATERIAL: SH 20F3

FINISH:

MODEL NO.: 5¼ DIGIT DISKETTE

SEE ENGRG SPECIFICATIONS No.

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

SCALE

TITLE: SCHEMATIC LOGIBLOC MOTHER BD. & POWER REGULATION

SEE VARIATION CHART | E | 7018 | 4

WANG PART NUMBER | SIZE | DRAWING NUMBER | REV.

REVISION

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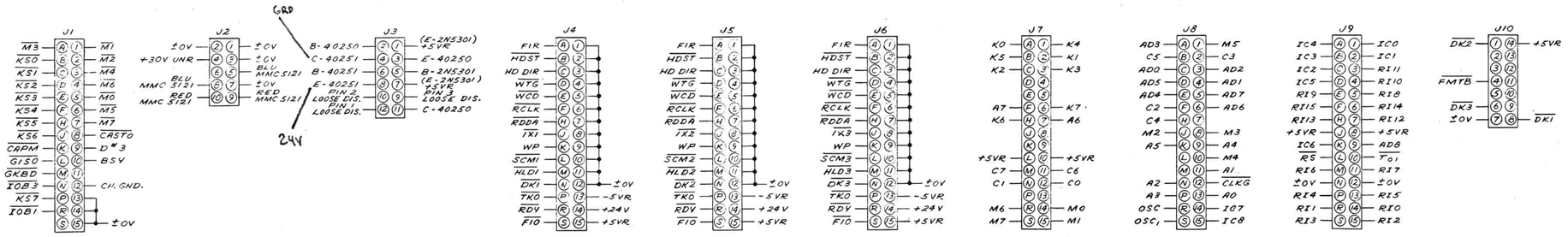
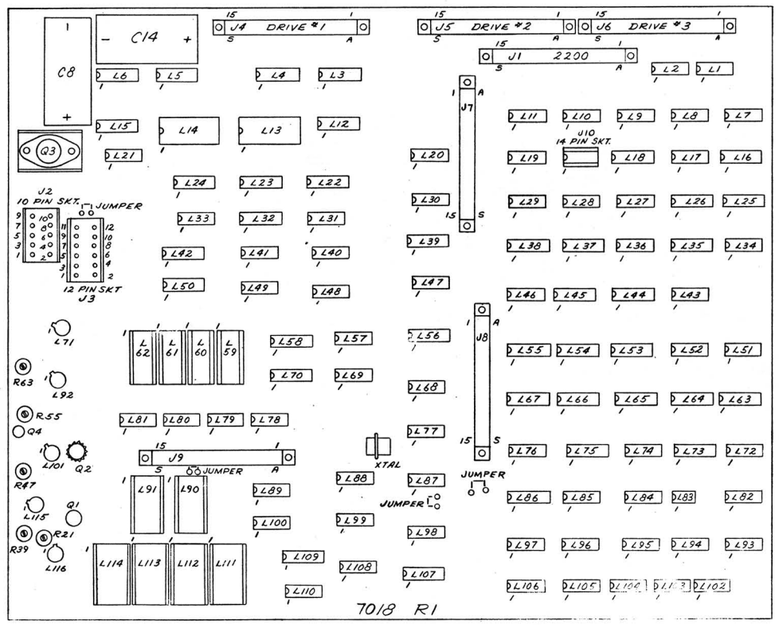
DO NOT SCALE

HOLE LEGEND

	HOLE DIA.	TOL.
DRILLED OR PUNCHED HOLE TOLERANCES:	.0135 to .125	± .002
	.126 to .250	± .003
	.251 to .500	± .004

IDENT.	DESCRIPTION	QTY.
A		





I.C. LOCATION	W.L. NO.	TERM ±0V	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	376-0097	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, 24-39, 56, 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		B9
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	BY	DATE
A		

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 F.S.S. 3/26/75	E ENGR
				CHK	M ENGR
			MODEL NO. SHUGART FLOPPY	E.C. CONTROL	MFG ENGR
			MATERIAL SH 3 OF 3	SEE ENGRG SPECIFICATIONS No.	TITLE MOTHER BOARD & PARTS LIST
			FINISH	TOL. EX. AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG. ± 1°30' FINISH 125	210-7018 / E / 7018 / 4
			SCALE		WANG PART NUMBER / SIZE / DRAWING NUMBER / REV.

7018

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DO NOT SCALE

TYPICAL CIRCUIT

HOLE LEGEND

DRILLED OR PUNCHED HOLE TOLERANCES	HOLE DIA	TOL
	.0135 to .125	± .002
	.126 to .250	± .003
	.251 to .500	± .005

IDENT	DESCRIPTION	QTY
A		

CONN. 1

+12V(SW)	A1	-12V(SW)
+3VR	B2	
±0V	C3	
+9V	D4	+9V(SW)
-24V	E5	+18V
	F6	
	H7	VR-5B
	J8	+36V
	K9	
+12V	L10	
	M11	
	N12	
	P13	-12VR
	R14	+5VR
TP2	S15	VR-12B

CONN. 2

EC	A1	EC
SFG	B2	CLR
TP4	C3	CR2
TP3	D4	
	E5	b8
	F6	
b7	H7	
	J8	+12V(SW)
TP5	K9	
	L10	
	M11	
	N12	
b5	P13	b3
b4	R14	b6
b2	S15	b1

CONN. 3

-12V	A1	
SFM	B2	
	C3	
	D4	
TP1	E5	
TP4	F6	S3'
+9V(SW)	H7	
S6'	J8	S8'
S1'	K9	S7'
WS	L10	
S9'	M11	S2'
S3'	N12	S5'
	P13	±0V
	R14	+5VR
	S15	

COMP SIDE — WIRING SIDE

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

COMPONENT	W.L. PART NO.
R1-13,90,111	330-4010
R14-22,34,35,86	330-3027
R23-31	330-3068
R32,36,37,40-43,45,51,55,59,63,67,71,75,79,93,94,95,97,33	330-3047
R38,76,99,102,107	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	380-1903
C19	300-1906
C2, 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
S2-7, 11-14	375-9001

LOCATION	W.L. PART NO.	+5V	+5VR
L1,3,4,18	376-0025	7	14
L2,8,24,25,34	376-0016	7	14
L5,9,13,19,23,33	376-0059	7	14
L6,12,17	376-0005	11	6
L7,30,35	376-0093	7	14
L11	376-0104	8	16
L16,22	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
L28,21,22 (SOCKET)	376-9003		

FOR INTERCONNECTION SEE DWG. E6635-999

JUMPER	TO	FOR
S2	±0V	222 IW
S2	L15 PINS 9 & 11	LPA OPERATION

COMPONENT LAYOUT

E REV

REVISION	BY	DATE	APPROVED
ECN 1411 FIX DWG ERROR AND ADD DESIGNATIONS	FS	10-6-75	SR
ECN 1510 REVISED TO REFLECT AS BUILT	FS	10-16-75	SR
ECN 1615 ADDED S6 & S7	FS	10-30-75	SR

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		ENGR	
CHK		MFG ENGR	
QC CONTROL		MFG ENGR	

MODEL NO. 72

SEE ENGG SPECIFICATIONS

TITLE: [illegible]

FINISH

TOL EX AS NOTED: XX ± .010 FRAC ± 1/64; XXX ± .005 MACH FINISH

SCALE — SHT OF

WANG PART NUMBER: 209-7128 — DRAWING NUMBER: E 7028 — REV: 2

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DO NOT SCALE

HOLE LEGEND

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

SHEET	DESCRIPTION	QTY
A		

LOCATION	W.L. PART NO.	TERM. NO. +5V	TERM. NO. +5.2V
L1,3,13,23	376-0046	7	14
L2,8,9,11,12,20	-0104	8	16
L4	-0003	7	14
L5,15,41	-0005	11	4
L6,14,29,31,35	-0002	7	14
L7,16,21,26, 28,32,38	-0010	7	14
L 22,33	-0026	7	14
L18	-0033	7	14
L19,30	-0126	1	8
L24	-0004	7	14
L24,27,34,37	-0165	—	8
L34	-0008	8	16
L39,40	-0055	7	14
L17	376-0025	7	14

PARTS LIST

COMPONENT	W.L. PART NO.
R1-7,9,10,69,71	330-3010
R8,10	-2047
R11,12,14,29,71, 31,32,40,43,51	-3022
R15,17,18,21,22,23, 28,33,35,37,39,42, 44,46,49,50,53,60, 62,67,68,70,63N	-3047
R15,19,69	-4018
R16,55	-4056
R54	-4022
R24,26,38,41,52,66	-1010
R 30,47	-4010
R26,34,73	-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
C10,27,42,45	-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	375-9001
C43,45,46,47	300-1906
D23	300-1004

T5,T6

CONN.1

T.R 4	A	1	
+5VR	B	2	FT
±0V	C	3	CIP
DT1	D	4	DT0
DT2	E	5	DT5
DT3	F	6	DT6
IP	H	7	DT7
DT8	J	8	DSTB
T.P.3	K	9	T.R
CR1	L	10	BUSY
ACKLG	M	11	SLCT
SF6	N	12	POWER-ON PRIME
SPARE FUNCTION	P	13	FFP
VTP	R	14	LFP
SPARE FUNCTION	S	15	SPARE FUNCTION

CONN.2

EC	A	1	EC
CLR	B	2	
LFD	C	3	SPARE
LFE	D	4	SL
MAL FUNCTION	E	5	b8
CR6	F	6	T.P.
b7	H	7	PF
CF	J	8	TP6
COVER OPEN	K	9	
PAPER OUT	L	10	SFM
RS	M	11	SELECT SW. OFF
ENDP	N	12	CR5
b5	P	13	b3
b4	R	14	b6
b2	S	15	b1

CONN.3

-12V	A	1	SLCTR
	B	2	T.P.5
FAULT	C	3	
ALARM LIGHT	D	4	T.P.2
SPKR	E	5	CLRM
CLCR	F	6	PS
	H	7	
PAPER OUT	J	8	SELECT LIGHT
PO	K	9	OSCXT
RB	L	10	RD
TIME METER	M	11	SELECT SW. OFF
FORM OVER-RIDE	N	12	T.P.1
	P	13	±0V
	R	14	+5VR
COMP. SIDE	S	15	WIRING SIDE

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

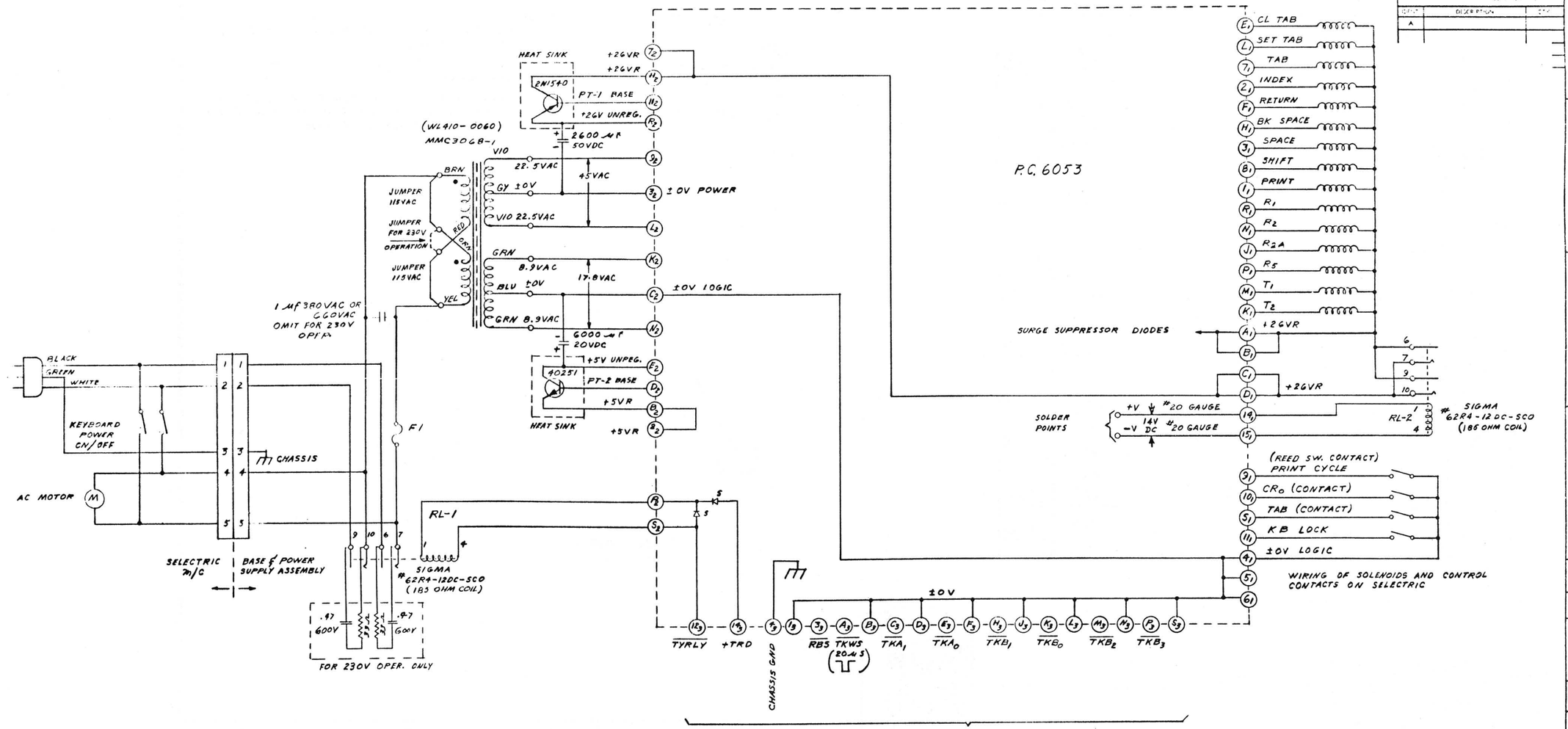
COMPONENT LAYOUT

JUMPER FOR 2221W OUT FOR LPO

REVISION	BY	DATE	APPROVED BY	DATE
PWR PROG 2221 LPO ADDED		2-27-73		
CHANGED PER ECN-5102		9-13-73		10/8/73
CHANGE PER ECN-5102				

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
FIRST USED ON	ASSY USED ON			BY	DATE / APPROVED BY / DATE
			WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A.	DWN	E ENGR
				CHK	M ENGR
			MATERIAL	E.C. CONTROL	MFG ENGR
			MODEL NO. 72	TITLE SCHEMATIC LOGIBLOC I/O CONTROL DATA STORAGE AND UNIVERSCOPE	
			SEE ENGR'G SPECIFICATIONS No.		
			FINISH	TOL. EX. AS NOTED XX ± .010 FRAC ± 1/64 .XXX ± .005 ANG. ± 1°30' FINISH 125	
				SCALE	SHT 1 OF 1
				210-7076 WANG PART NUMBER	E 7076 SIZE DRAWING NUMBER 2 REV

E REV 0



IDENT	QTY	DESCRIPTION	W.L. PART NO.
F1	1	115V 1A	360-1010
	1	230V .6A	360-1006

NO	REVISION	BY	DATE
1	PER ECN 8/1600 CIR. BKR WAS #4 AFD RJT	RJT	6/25/70
2	PER ECN #1654 ADDED CIRCUIT FOR 220 OPERATION APP. RJT	RJT	8-17-70
3	X-STR 40251(PTB1A) NOW CORRECTLY INDICATED AS AN NPN PER ECN 1697 AFD.	L.E.G.	7-4-72
4	PER ECN #2806 WAS +17 AT 42V APP.: SKH	SH	9-10-72
5	PER E.N. #3129 REMOVED 2A CIR. BREAKER. ADDED FUSE APP'D SKH	SH	8-10-72

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. 701		
	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
DWN JG	3/17/70
CHK RJT	4-17-70
E. C. CONTROL	

DESCRIPTION		
APPROVED BY	DATE	
E ENGR		
M ENGR		
MFG ENGR		

TITLE SCHEMATIC LOGIBLOC OUTPUT WRITER

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.
	D	6066	5

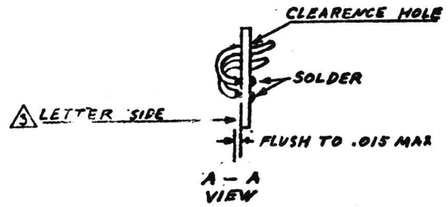
89

D 6066

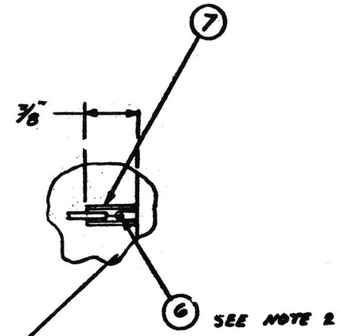
DO NOT SCALE

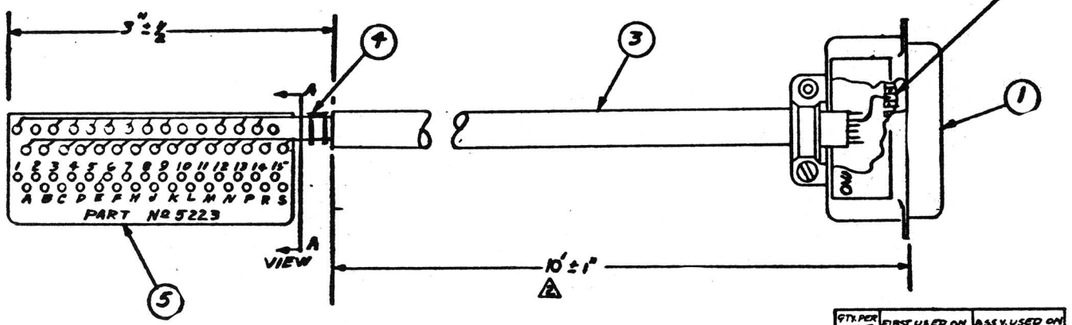
ITEM 5 — TWISTED PAIR — ITEM 1

	ITEM 5		ITEM 1	
K	BRN	P	BRN	1
L	RED	P	RED	13
H	RED	P	RED	2
J	ORN	P	ORN	14
M	RED	P	RED	3
N	GRN	P	GRN	15
P	GRN	P	GRN	4
S	WHT	P	WHT	16
E	BLU	P	BLU	5
F	RED	P	RED	17
C	BLU	P	BLU	6
D	WHT	P	WHT	18
A	BRN	P	BRN	7
B	WHT	P	WHT	19
3	ORN	P	ORN	8
1	WHT	P	WHT	20
9	GRY	P	GRY	9
8	RED	P	RED	21
7	WHT	P	WHT	10
6	GRY	P	GRY	22
5	ORN	P	ORN	11
4	BLK	P	BLK	23
14	BLU	P	BLU	12
12	BLK	P	BLK	24



NOTE:
1. SOLDER ITEM 3 TO ITEM 5 AS SHOWN PER WIRING DIAGRAM
2. SOLDER ITEM 3 TO ITEM 1 PER WIRING DIAGRAM
3. STRIP BOTH ENDS OF ITEM 3 ABOUT ½" TO ENABLE SOLDERING INTO PLACE ITEM 1 TO ITEM 5 PER WIRING DIAGRAM.





QTY. PER UNIT	FIRST USED ON	ASS'Y. USED ON
1	05776-501	05776-550

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	PC. BOARD 5223		
605-1000	4	AR	LACING		
420-0022	3	AR	CABLE		SEE NOTE 3
350-2023	1	1	CONNECTOR		

REVISION	BY	DATE
1 PER ECN #3458 REMOVED LABEL APP'D BY	BJB	1-8-73
2 REVISED PER ECN #3912 QTY 24 11-14-73	D.L.	12-5-73
3 REV. PER RFA #0710 QTY 24 2-19-74	BJB	2-20-74

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.

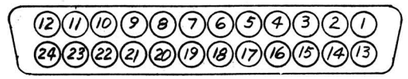
DR BJB	DATE 3/24/70	
CHK WJS	DATE 3/24/70	
APPD GJC	DATE 3/24/70	

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

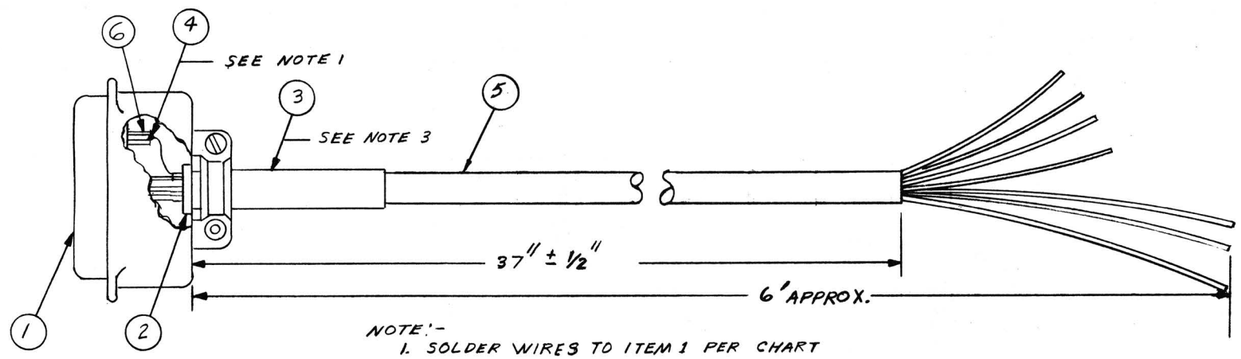
VIEW WIRING SIDE OF CONN. AMP. 57-30240



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

REV	BY	DATE	REVISIONS
1	LB	3-29-72	PER ECN #2829 REMOVED COLORED WIRES ADDED 25 COND. CABLE APP. SKH
2	LB	9-29-72	PER ECN #3266 ADDED #12 TUBING APP: D SKH
3	PMB	5-3-73	RFA. Nº 0069 WAS: IN ITEM 3 IN MATERIAL LIST. W.L. Nº 350-4103

IDENT	QTY	NAME	W.L. PART NO.	DESCRIPTION
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 ½"
2	1	STRAIN RELIEF	654-1208	WALKER #6
1	1	CONNECTOR	350-2023	57-30240

WANG LABORATORIES INC.
TEWKSBURY, MASS.

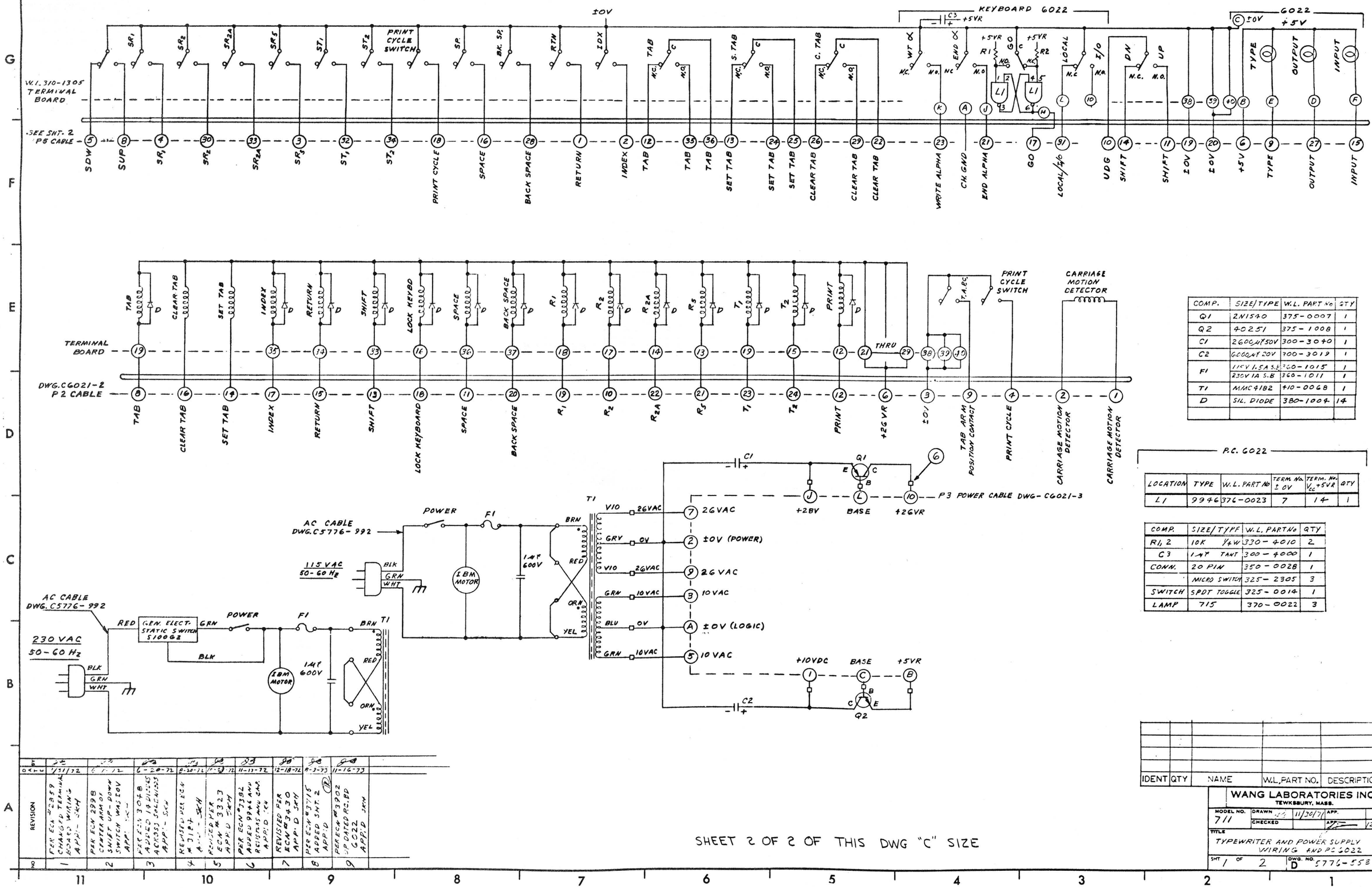
MODEL NO.	DRAWN	11/4/71	APP.	
711	CHECKED		APP.	12-27-71

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	1.4Y 14VT	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

IDENT	QTY	NAME	W.L. PART NO.	DESCRIPTION

NO	REVISION	BY	DATE
1	PER ECN #2959 CHANGED TERMINAL BOARD WIRING APP.- SKH		1/31/72
2	PER ECN 2998 CENTER ARM OF SHIFT UP-DOWN SWITCH WAS ±0V APP.		6-1-72
3	PER ECN 3048 ADDED 19 DIODES ACROSS SOLENOIDS APP.- SKH		6-20-72
4	REVISED PER ECN #3187 APP.- SKH		8-30-72
5	REVISED PER ECN # 3323 APP'D SKH		10-23-72
6	PER ECN #3392 ADDED 9946 AND RESISTANCE ENG. APP'D SKH		11-17-72
7	REVISED PER ECN #3430 APP.'D SKH		12-18-72
8	PER ECN #3715 ADDED SHT. 2 APP'D		9-3-73
9	PER ECN #3902 UPDATED P.C.B'D 6022 APP'D SKH		11-16-73

SHEET 2 OF 2 OF THIS DWG "C" SIZE

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 711 | DRAWN | CHECKED | APP. 11/30/71 | APP. 12-22-71

TITLE: TYPEWRITER AND POWER SUPPLY WIRING AND PC 6022

SHT 1 OF 2 | DWG. NO. D 5776-558 | REV 9

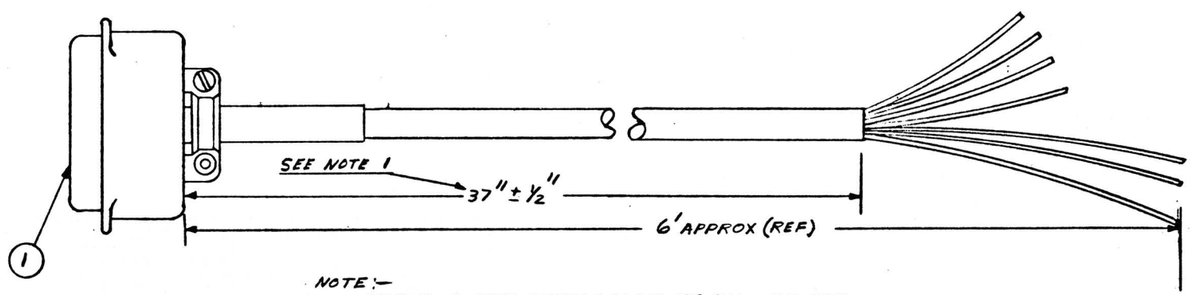
5776-558

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/T/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

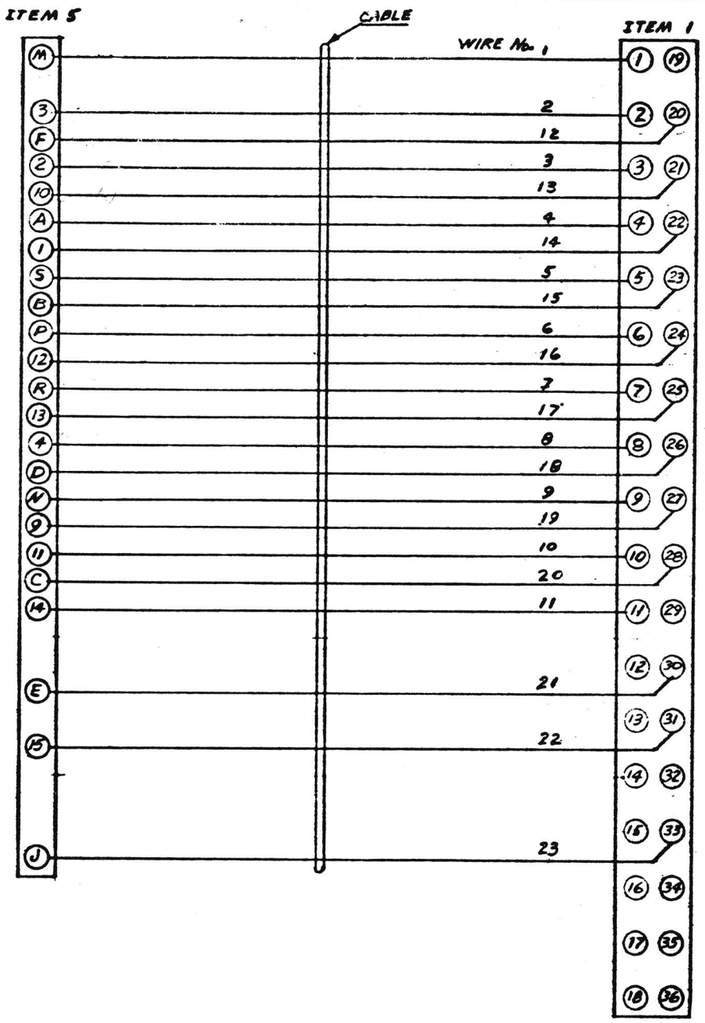
1	1	CABLE ASS'Y TYPE 2	220-2636-6	SEE ENG C6452-2
IDENT	QTY	NAME	W.L. PART NO.	DESCRIPTION

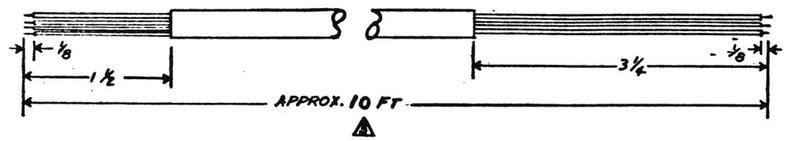
WANG LABORATORIES INC.
TEWKSBURY, MASS.

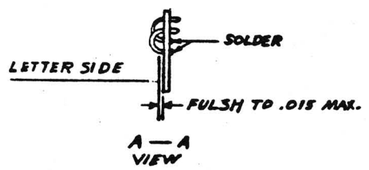
MODEL NO.	DRAWN	11/9/71	APP.	
711	CHECKED		APP.	12-27-71

TITLE
F5 INPUT CABLE TO C5

SHT 2 OF 2.	DWG. NO. C 5776-553	REV. 10



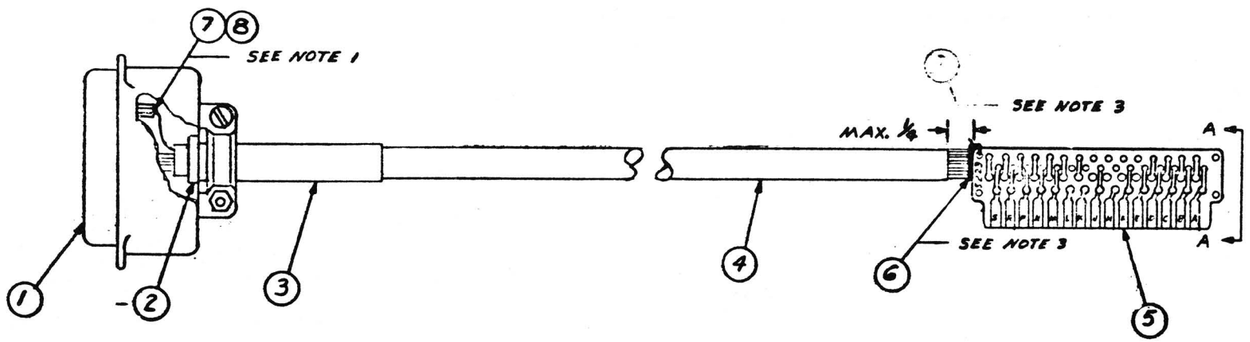




QTY. PER U.S.E.D.	FIRST USED ON	ASSY USED ON
1	05776-549	05776-550

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.

REVISIONS	BY	DATE
PER ECN #2672 WAS 36 COND. CABLE WIRE 31 NOW 14 WIRE 33 NOW 15 APP: SKM	N	1-12-72
PER ECN #3267 WAS 30 COND. CABLE APP: D SKM	N	3-19-73
PER ECN 3912 11-19-73 JRB CLK 11-15-73	GB	11-21-73
PER RFA 0572 12-4-73 JRB	A	12-5-73



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	920-0002	24 COND. 26 GA.
3	1	TUBING	605-0106	NEOPRENE (.251N)
2	1	STRAIN RELIEF	659-1208	WAKER #6
1	1	CONNECTOR	350-2025	57-30360

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO.	DRAWN		APP.	
711	CHECKED		APP.	12-27-71

TITLE: I/O CABLE TO C #

W.L. NO.	DWG. NO.	REV.
220-0070	C 6021-4	4

ON 3MB

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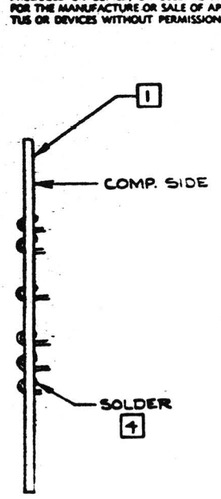
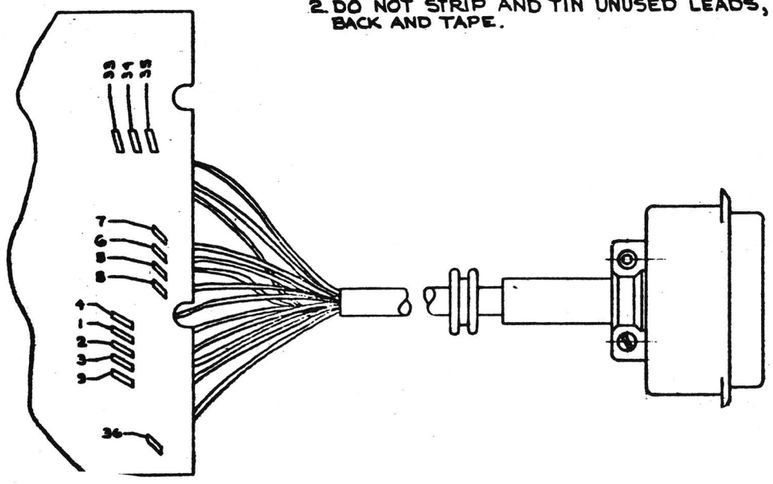
NOTES:
1. GROMMET MUST BE ON CABLE BEFORE WIRING TO P/C BOARD.
2. DO NOT STRIP AND TIN UNUSED LEADS, FOLD BACK AND TAPE.





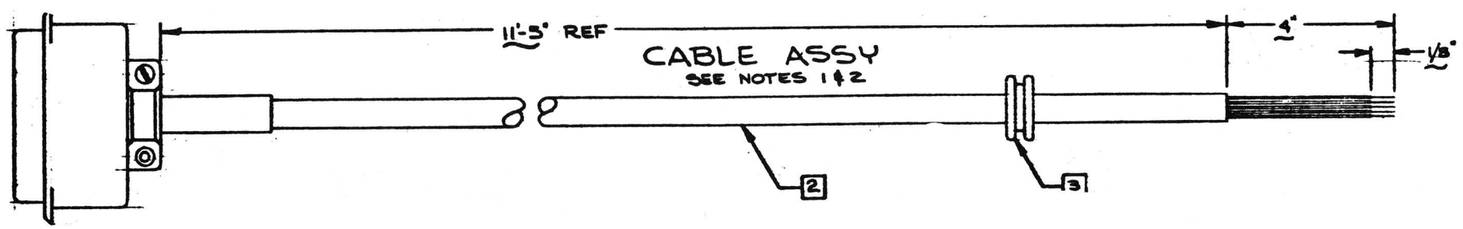
CONNECT TO ±0 VOLTS

P/C BOARD G280	WIRING NUMBER	CONNECTOR	
1	1	1	GKA0
2	2	2	GKA1
3	3	3	GKA2
4	4	4	GKA3
5	5	5	GKB0
6	6	6	GKB1
7	7	7	GKB2
8	8	8	GKB3
9	9	9	GISN
36	36	36	CH. GND
35	35	35	±0V
34	34	34	±0V
33	33	33	±0V
○	11	11	BSY

HOLE LEGEND

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

Qty. Per Unit	FIRST USED ON	ASSY USED ON

REVISION	BY	DATE	APPROVED BY	DATE
	DWN LARRY T.	11-13-73	E ENGR	
	CHK		M ENGR	
	E C CONTROL		MFG ENGR	12-5-73

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

MATERIAL: SEE PARTS LIST

MODEL NO. 2214

SEE ENGRG SPECIFICATIONS No. ES-1001

FINISH

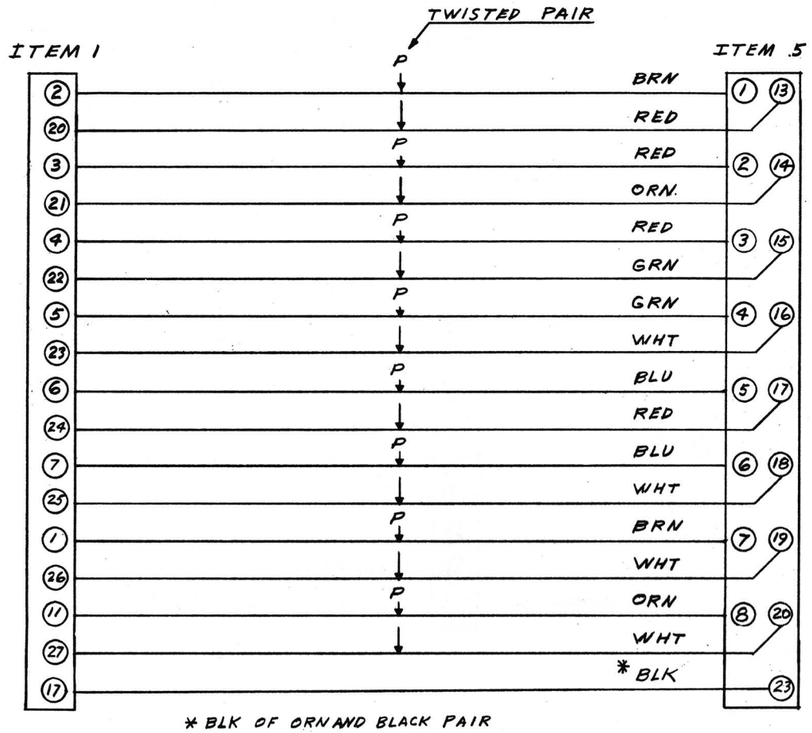
TOL EX. AS NOTED .XX ± .010 FRAC ± 1/64 .XXX ± .005 ANG ± 1°30' FINISH 125

SCALE 1:1 SHT 1 OF 1

TITLE: I/O CABLE ASSY

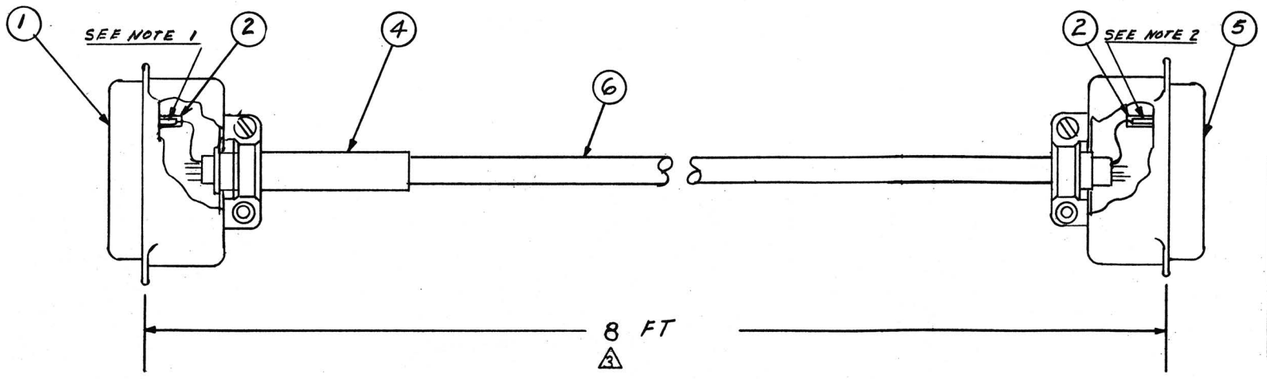
WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
	C	6280-3	0

E-0829 C



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]	9-14-72	REVISED PER ECN # 3130 APP'D SKH
2	[illegible]	2-12-73	PER ECN # 3517 ADD'L BLACK WIRE APP'D SKH
3	[illegible]	10-5-73	REV. PER ECN# 3912 11-14-73 [illegible] CEC 11/15/73
4	[illegible]	12-5-73	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

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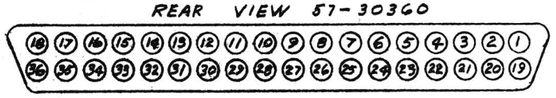
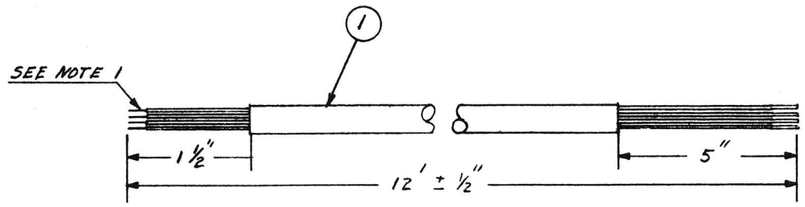
DO NOT SCALE

REAR VIEW 57-30360



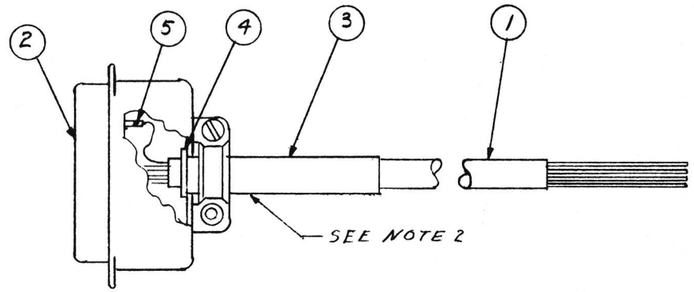


HOLE LEGEND		
DRILLED OR PUNCHED HOLE TOLERANCES:	HOLE DIA.	TOL.
	.0135 to .125	+.003 −.001
	.126 to .250	±.004 −.001
	.251 to .500	±.005 −.001

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.

MATERIAL	MODEL NO 6/722	TITLE I/O KEYBOARD CABLE (6/722)	
	SEE ENGRG SPECIFICATIONS No.		
FINISH	TOL. EX. AS NOTED .XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1°30' FINISH 125	220-0086	C 5776-2042
	SCALE SHT OF	WANG PART NUMBER	SIZE DRAWING NUMBER REV

	BY	DATE	APPROVED BY	DATE
DWN		8-23-72	E ENGR	
CHK			M ENGR	
E. C. CONTROL			MFG ENGR RCD	8-30-72

NO.	REVISION	DATE	BY

5776-2042 C

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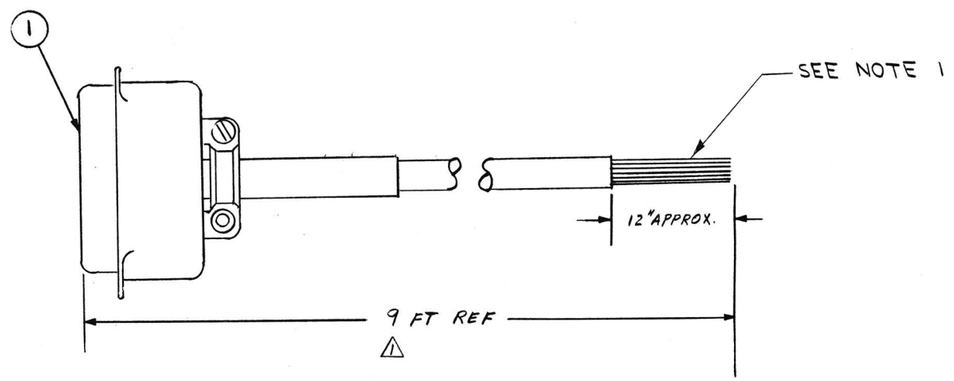
DO NOT SCALE

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		

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	12-5-73	D.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.

	BY	DATE	APPROVED BY	DATE
DWN	JB	12/12/72	E ENGR	2-26-73
CHK			M ENGR	
E. C. CONTROL			MFG ENGR	

MATERIAL

MODEL NO. 724

SEE ENGRG SPECIFICATIONS No.

FINISH

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

TITLE I/O CABLE MODEL 700, 600 OR 400

SCALE | SHT 1 OF 1

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
	C	6276-2	1

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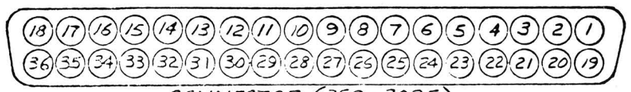
DO NOT SCALE

NOTES:
1. ASSEMBLE ITEM 2, ITEM 4, AND SHELL OF ITEM 1 BEFORE SOLDERING WIRES.
2. SOLDER WIRES PER CHART.

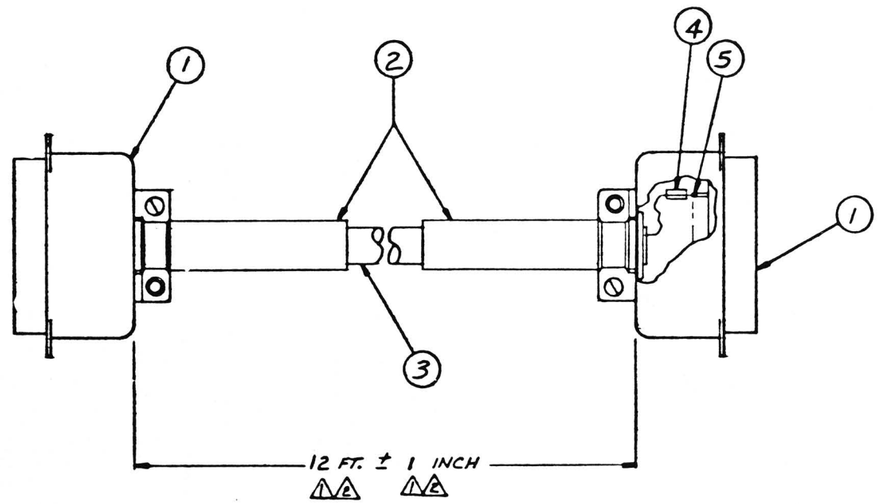
HOLE LEGEND		
DRILLED OR PUNCHED HOLE TOLERANCES:	HOLE DIA.	TOL.
	.0135 to .125	+.008 −.001
	.126 to .250	+.006 −.001
	.251 to .500	+.005 −.001

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	$\overline{\text{DTA STBE}}$	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	$\overline{\text{ACKNLG}}$	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	± 0V ——	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

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 √

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

NO	REVISION	DATE	BY
1	REV. PER ECN# 3912 11-14-73 AFFECTS 220-0105 ONLY	12-5-73	D.L.
2	REV PER ECN# 4105 4-1-74 AFFECTS 220-0105 ONLY	4-1-74	J.T.

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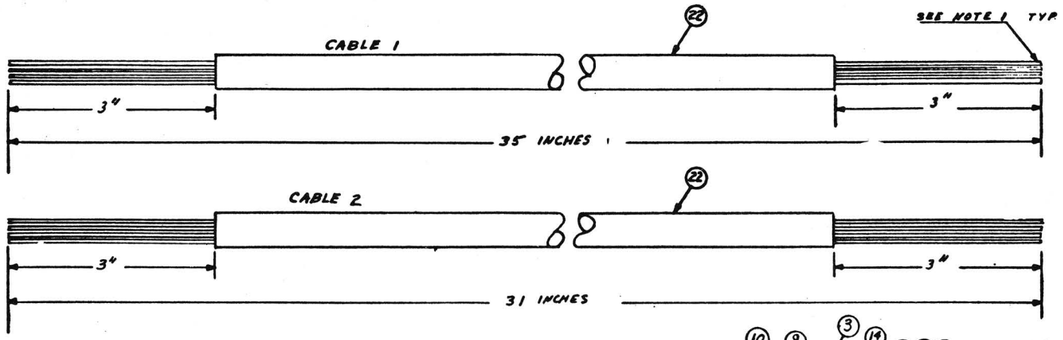
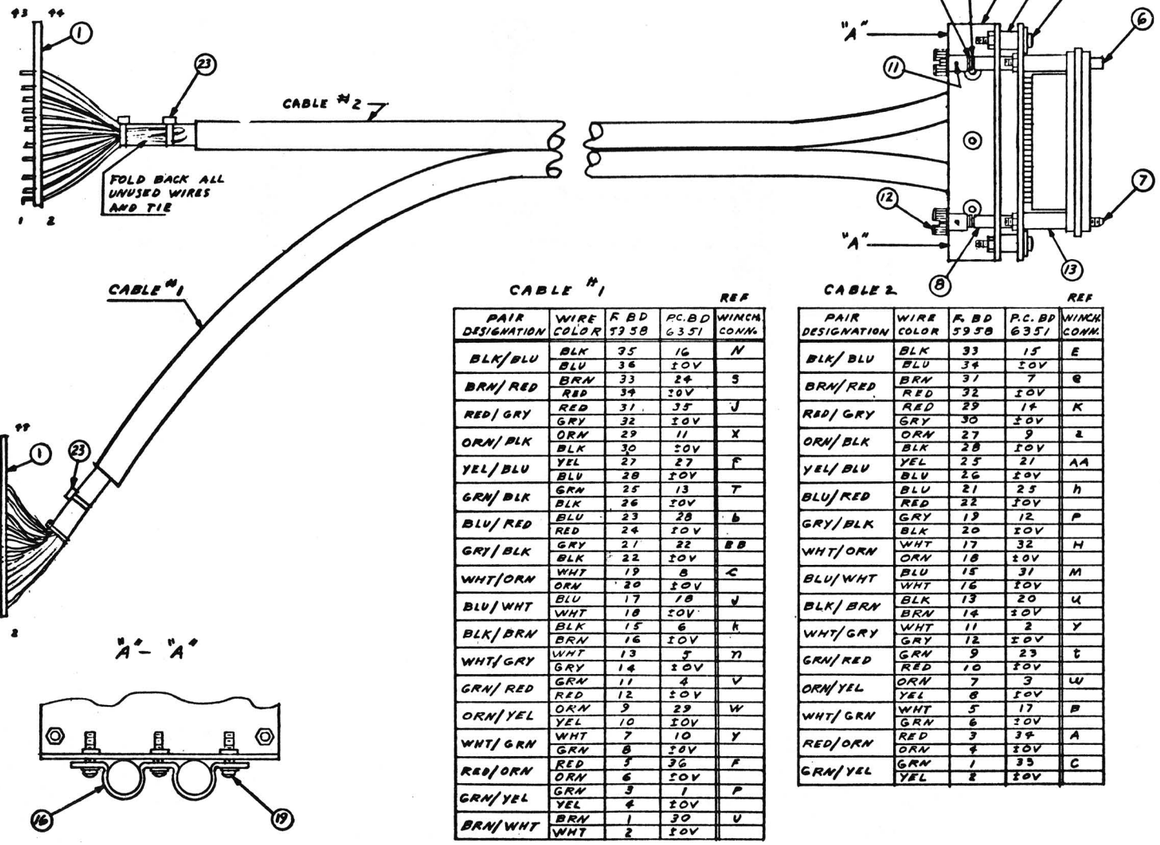


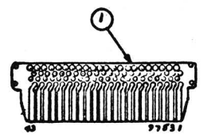


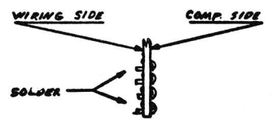
CABLE #1

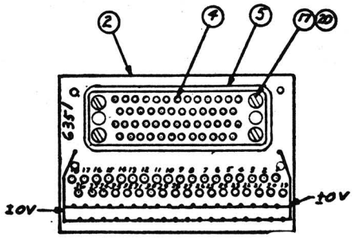
PAIR DESIGNATION	WIRE COLOR	P. BD 5958	P.C. BD 6351	REF WINCH CONN.
BLK/BLU	BLK	35	16	N
	BLU	36	±OV	
BRN/RED	BRN	33	24	S
	RED	34	±OV	
RED/GRY	RED	31	35	J
	GRY	32	±OV	
ORN/BLK	ORN	29	11	X
	BLK	30	±OV	
YEL/BLU	YEL	27	27	F
	BLU	28	±OV	
GRN/BLK	GRN	25	13	T
	BLK	26	±OV	
BLU/RED	BLU	23	28	b
	RED	24	±OV	
GRY/BLK	GRY	21	22	BB
	BLK	22	±OV	
WHT/ORN	WHT	19	8	C
	ORN	20	±OV	
BLU/WHT	BLU	17	18	d
	WHT	18	±OV	
BLK/BRN	BLK	15	6	k
	BRN	16	±OV	
WHT/GRY	WHT	13	5	m
	GRY	14	±OV	
GRN/RED	GRN	11	4	V
	RED	12	±OV	
ORN/YEL	ORN	9	29	W
	YEL	10	±OV	
WHT/GRN	WHT	7	10	Y
	GRN	8	±OV	
RED/ORN	RED	5	36	F
	ORN	6	±OV	
GRN/YEL	GRN	3	1	P
	YEL	4	±OV	
BRN/WHT	BRN	1	30	U
	WHT	2	±OV	

CABLE 2

PAIR DESIGNATION	WIRE COLOR	P. BD 5958	P.C. BD 6351	REF WINCH CONN.
BLK/BLU	BLK	33	15	E
	BLU	34	±OV	
BRN/RED	BRN	31	7	Q
	RED	32	±OV	
RED/GRY	RED	29	14	K
	GRY	30	±OV	
ORN/BLK	ORN	27	9	L
	BLK	28	±OV	
YEL/BLU	YEL	25	21	AA
	BLU	26	±OV	
BLU/RED	BLU	21	23	h
	RED	22	±OV	
GRY/BLK	GRY	19	12	P
	BLK	20	±OV	
WHT/ORN	WHT	17	32	H
	ORN	18	±OV	
BLU/WHT	BLU	15	31	M
	WHT	16	±OV	
BLK/BRN	BLK	13	20	U
	BRN	14	±OV	
WHT/GRY	WHT	11	2	Y
	GRY	12	±OV	
GRN/RED	GRN	9	23	t
	RED	10	±OV	
ORN/YEL	ORN	7	3	W
	YEL	8	±OV	
WHT/GRN	WHT	5	17	B
	GRN	6	±OV	
RED/ORN	RED	3	34	A
	ORN	4	±OV	
GRN/YEL	GRN	1	35	C
	YEL	2	±OV	







NOTE:
1. STRIP BACK 1/8" AND TIN 1/8"
2. TRIM WASHERS AS NESSARY TO CLEAR WIRES

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		

	660-0201		1/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. BG472-98
	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 BG472-47
	510-6351	2	1	P.C. BOARD		
	510-5958	1	2	FINGER BOARD		
	WANG PART NO	ITEM	QTY.	NAME	MATERIAL	DESCRIPTION

THESE PARTS ARE STOCKED AS ONE ASSEMBLY PART NO 350-2057

Qty. Per Unit	FIRST USED ON	ASSY USED ON
1	CG472-56	

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	1-18-74

MATERIAL — MODEL NO 2230-730-630 — SEE ENGAG SPECIFICATIONS No. CS-1051

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

TITLE: DIABLO DISK CABLE ASSEMBLY

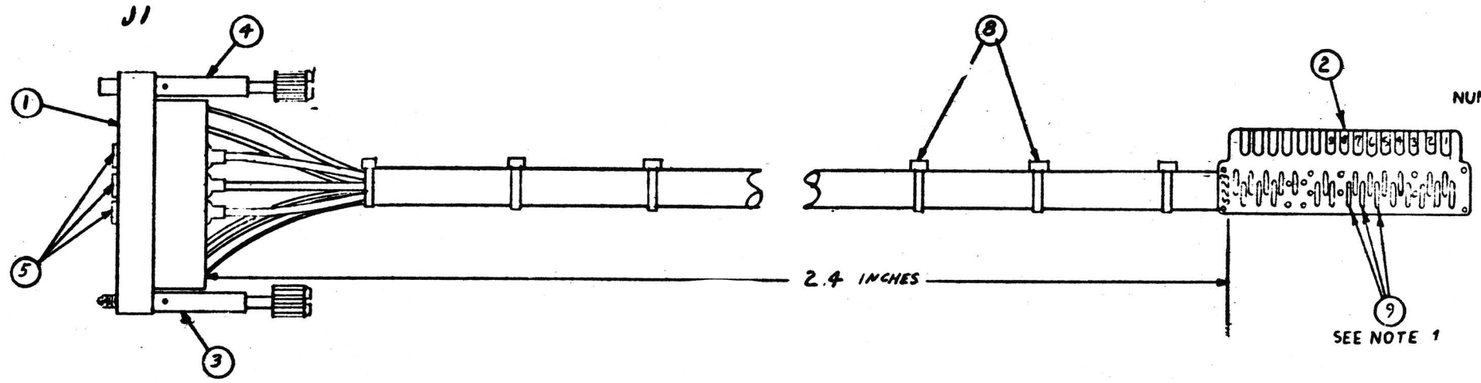
SCALE — SHT 1 OF 1

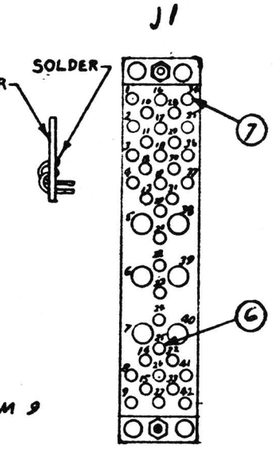
WANG PART NUMBER	SIZE	DRAWING NUMBER	REV.
220-0108	D	6472-59	2

D 6472-59

NO.	REVISION	BY	DATE
1	ADDED 3 WIRES TO CABLE #1 AND #2 PER ECN 4-1-74	M.W.	5-15-74
2	NEW REVISION PER ECN 4-1-74	M.W.	5-15-74

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	—
ERASE 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
605-0018	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	3	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.		

BY	REVISION	NO.

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 DB DATE 1-8-74
CHK [illegible] DATE 6/3/74
APPD [illegible] DATE 1/8/74

MODEL No. 74-[illegible] W.O. No. SCALE 4/1 SHEET 1 OF 1

TITLE DISC INTERFACE CABLE ASS'Y

220-[illegible]15	O	C	6499-25
PART NUMBER	REV	SIZE	DRAWING NUMBER

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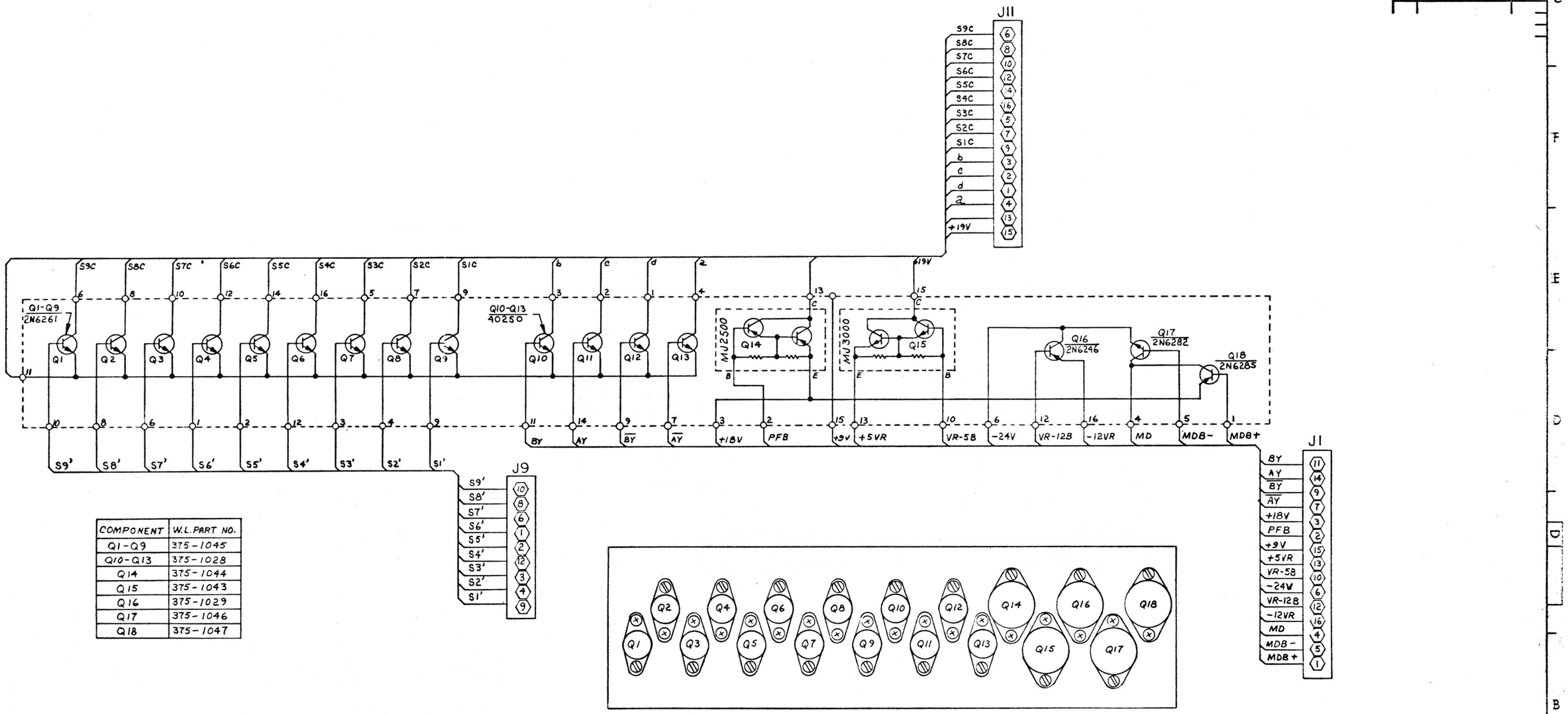
DO NOT SCALE

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	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	BY	DATE
ORIG PER E-047 APP'D: [illegible]	DN	9-8-75

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 72

SEE ENGNG SPECIFICATIONS No.

FINISH

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

SCALE 1/2 SHT OF

MATERIAL	DESCRIPTION

BY	DATE	APPROVED BY	DATE
DWN DN	9-8-75	E ENGR R Chin	11-1-75
CHK		M ENGR	
E C CONTROL		MFG ENGR	

TITLE SCHEMATIC LOGIBLOC HEAT SINK ASSEMBLY

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
270-0261	D	6635-998	0

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DO NOT SCALE

HOLE LEGEND

DRILLED OR PUNCHED HOLE TOLERANCES:	HOLE DIA	TOL
	.0135 to .125	± .003
	.126 to .350	± .005
	.351 to .500	± .007

IDENT	DESCRIPTION	QTY
A		

P.C. 6568

6568 RO

LKJHFEDCBA

6704 RO

P.C. 6704

STEPPING MOTOR

MMC-5097-3

115/230 VAC
50-60 Hz

FUSE:- 115V - 4A SB
230V - 2A SB

9 SOLENOID PRINTING HEAD

M1200 AND MJ3000

2N6070B

T T G

FOR PARTS LIST
SEE DWG A6560
SEE DWG C 6704
SEE DWG PLC6635-04
SEE DWG E 6738
SEE DWG E 6577
SEE DWG E 7028

HEAT SINK ASS'Y W.L. PART No. 270-0261

P.C. 6728

P.C. 6577

P.C. 6576 WARNING LIGHT

6.25 AMP CIRCUIT BREAKER WITH MICRO-SWITCH WARNING CONTROL

REVISION	DRAWN	APPD	DATE
1	DRAWING DWR M.E.O.I.C.		6-27-75
1	REVISED PER REQUEST #1772 APPD Mfg. Mgr.		8-30-75
2	REVISED TIES MADE TIES MADE		8-11-76

WANG PART NO.	ITEM	QTY	NAME	MATERIAL	DESCRIPTION

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

	BY	DATE	APPROVED BY	DATE
DWN		6-27-75	ENGR	7/6/76
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 √

SCALE SHT OF

TITLE: MATRIX PRINTER POWER CIRCUIT

WANG PART NUMBER E 6635-999 SIZE DRAWING NUMBER 2 REV.

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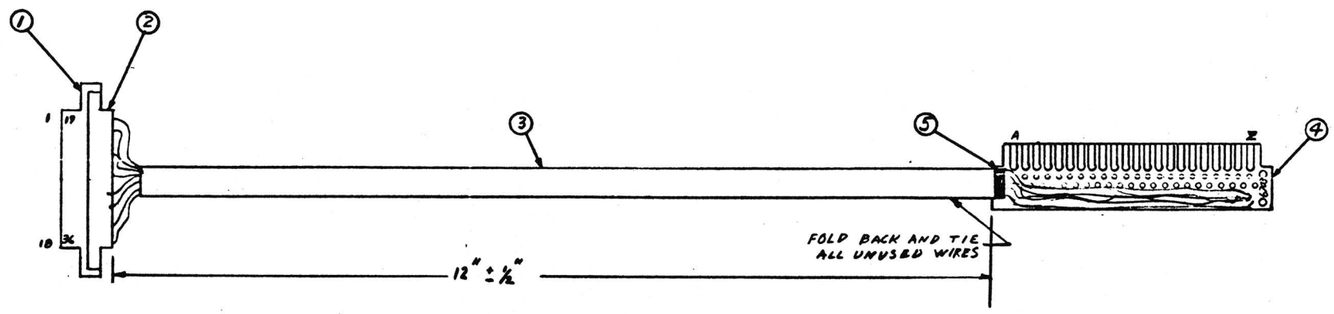
DO NOT SCALE

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		



SIGNAL	CONN. PIN No.	WIRE No.	TO G703
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
2 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
OSCRT	15	15	H
±0V	16	16	X
CHASSIS GND	17	17	4
+5VR	18	18	13

SIGNAL	CONN. PIN NO.	WIRE NO.	TO G703
±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

DWG No	REVISION	BY	DATE
1	REVISION PER ECO 1851	[illegible]	10-17-75
2	REV. PER RFA 1851 LETTER T		10-17-75

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 72	TITLE I/O INTERFACE CABLE
				SEE ENGG SPECIFICATIONS No.	
			FINISH	TOL EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH 125	220-0129 / D / 6482-49
				SCALE / SHT 1 OF 1	WANG PART NUMBER / SIZE / DRAWING NUMBER / REV

BY	DATE	APPROVED BY	DATE
DWN [illegible]	7-17-75	E ENGR	
CHK [illegible]	7/17/75	M ENGR	
E C CONTROL		MFG ENGR	

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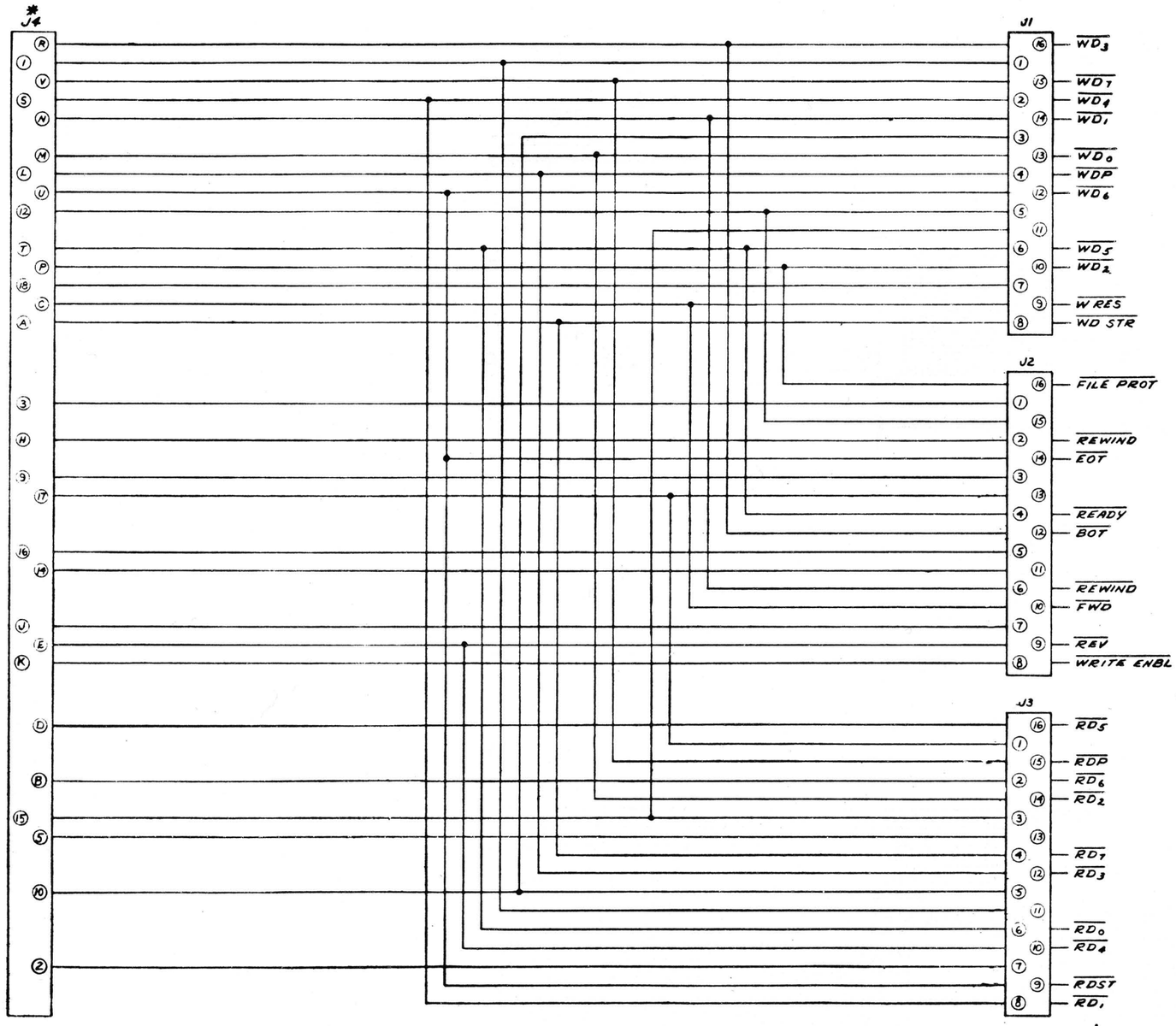
DO NOT SCALE

HOLE LEGEND

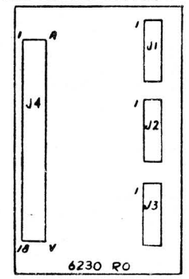
	HOLE DIA	TOL
DRILLED OR PUNCHED HOLE TOLERANCES	.0135 to .125	± .003 .001
	.126 to .250	± .004 .001
	.251 to .500	± .005 .001

IDENT	DESCRIPTION	QTY
A		



COMPONENT	SIZE/TYPE	W.L. NO.
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.

NO.	REVISION	DATE	BY
B	REVISED PER ECO 208 ADDED 208	1-2-75	FSS
0	REVISED PER ECO 14038 ADDED P.B.	1-16-75	FSS

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

MATERIAL — MODEL NO 2203 — SEE ENGRG SPECIFICATIONS No. —

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

TITLE: CABLE JUNCTION BOARD

210-6230 | D | 6230 | 0

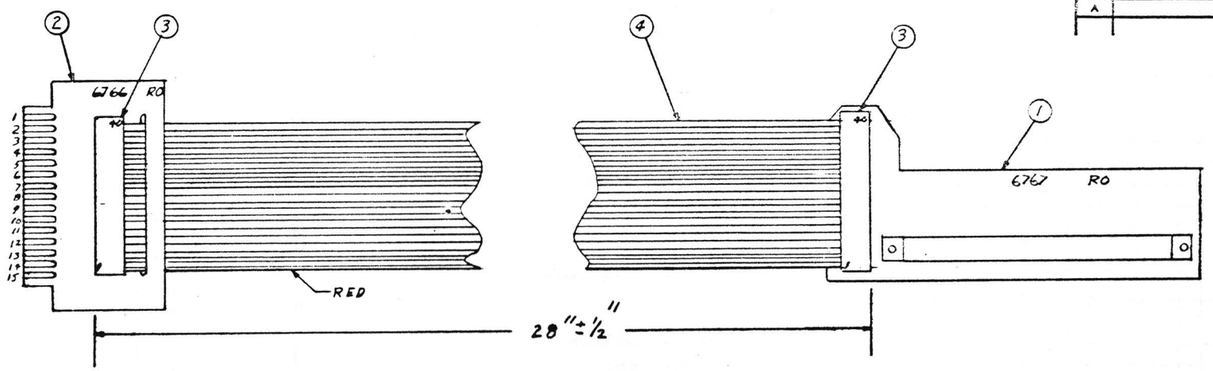
SCALE — SHT 4 OF 5 — WANG PART NUMBER | SIZE | DRAWING NUMBER | REV.

D 6230

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

ECN'T.	DESCRIPTION	QTY.
A		



C710 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
WCO	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	M.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	50V	D THRU L N THRU S U, V, W, Y

REVISION	BY	DATE
REVISED PER ECA #1286 APPD	[illegible]	9/26/75

WANG PART NO	ITEM	QTY	NAME	MATERIAL	DESCRIPTION
420-0045	4	A/R	40 CONDUCTOR FLAT CABLE		
350-0402C	3	2	CONNECTOR COVER		
210-6766	2	1	P.C. BOARD		DWG. C6766
210-6767	1	1	P.C. BOARD		DWG. C6767

Qty. Per Unit	FIRST USED ON	ASSY USED ON

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

	BY	DATE	APPROVED BY	DATE
DWN	[illegible]	9/17/75	E ENGR	[illegible]
CHK	[illegible]	9-6-75	M ENGR	
E C CONTROL			MFG ENGR	9-6-75

MATERIAL — MODEL NO WCS/2270 — SEE ENGNG SPECIFICATIONS No. ____

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

SCALE — SHT — OF

TITLE: SHUGART FLOPPY DISK CABLE

WANG PART NUMBER	SIZE	DRAWING NUMBER	REV
220-3011	C	6782-62	1

RELEASED FOR ASSEMBLY
MANUAL

— LOAD HEAD FD100
+ 5 VDC 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
2 μS DELAY
CR14-CR16
Q16
7A
Q14 Q15
R21
— TRACK 00 FD100
L17
— HEAD LOAD [1] FD400
+ HEAD UNLOADED FD320

— STEP IN FD100
R18
5D
2 μS 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
2 μS DELAY
6D
ONE SHOT 3 μS
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
+ 5 V
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)

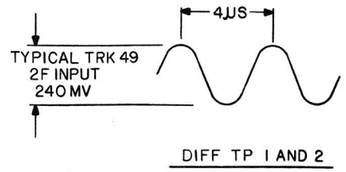
DATE	CHANGE NO.	DATE	CHANGE NO.	TECHNICAL APPROVAL			MEMOREX EQUIPMENT GROUP		
APR-72	2562						NAME	SYSTEM LOGIC DIAGRAM	
MAR 73	21051							READ/WRITE/ACCESS	
							DESIGN		
							DETAIL	W. Mc Lucas	1-28-72
							CHECK	R. Orr	2-1-72
							APPRO	JFC	5-9-72

204172

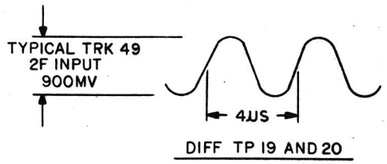
FD 300

D

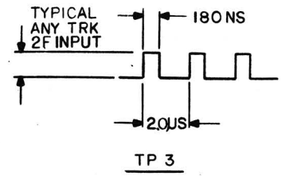
RELEASED FOR ASSEMBLY
MANUAL



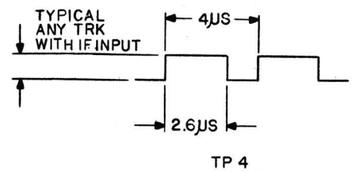
DIFF TP 1 AND 2



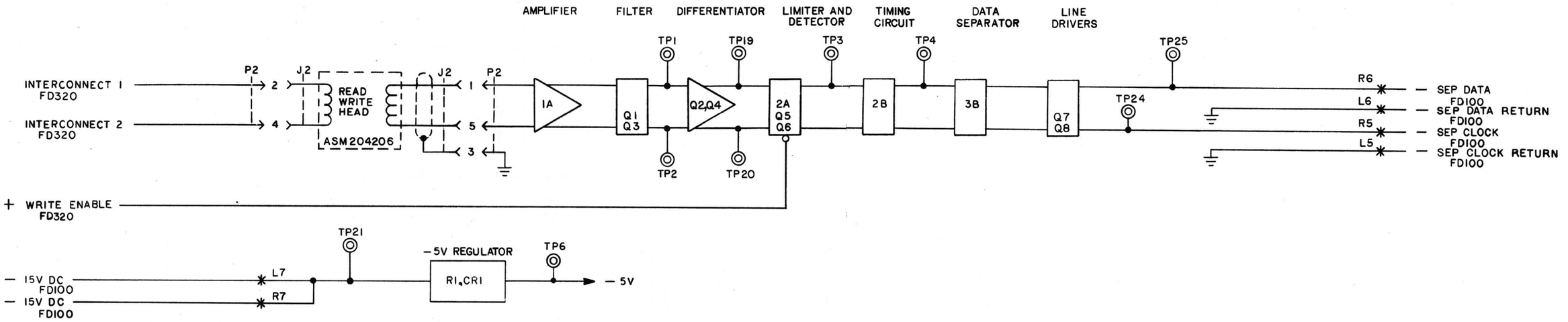
DIFF TP 19 AND 20



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

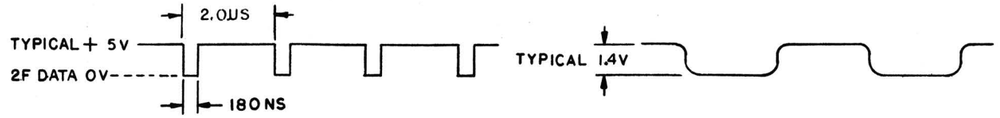
DESIGN	[illegible]	1-31-72
DETAIL	[illegible]	1-31-72
CHECK	R. Ose	2-1-72
APPRO	J FC	5-4-72

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
– WRITE PROTECT SW FD200
+ HEAD UNLOADED FD300
– PWR UP RESET FD300
– FILE UNSAFE RESET FD100
INTERCONNECT 1 FD310
INTERCONNECT 2 FD310
– FILE UNSAFE FD100
– WRITE PROTECT FD100
R2
L11
L3
L12
R3
+5V
R88 4.75K
R94 4.75K
TP29
TP30
TP31
TP32
TP33
TP35
TP36
R84 WRITE CURRENT SENSE
R90 WRITE DAMPING
Q29 WRITE AMPL
Q30
Q28
Q25
15µS DELAY

(SHEET 3 OF 3)

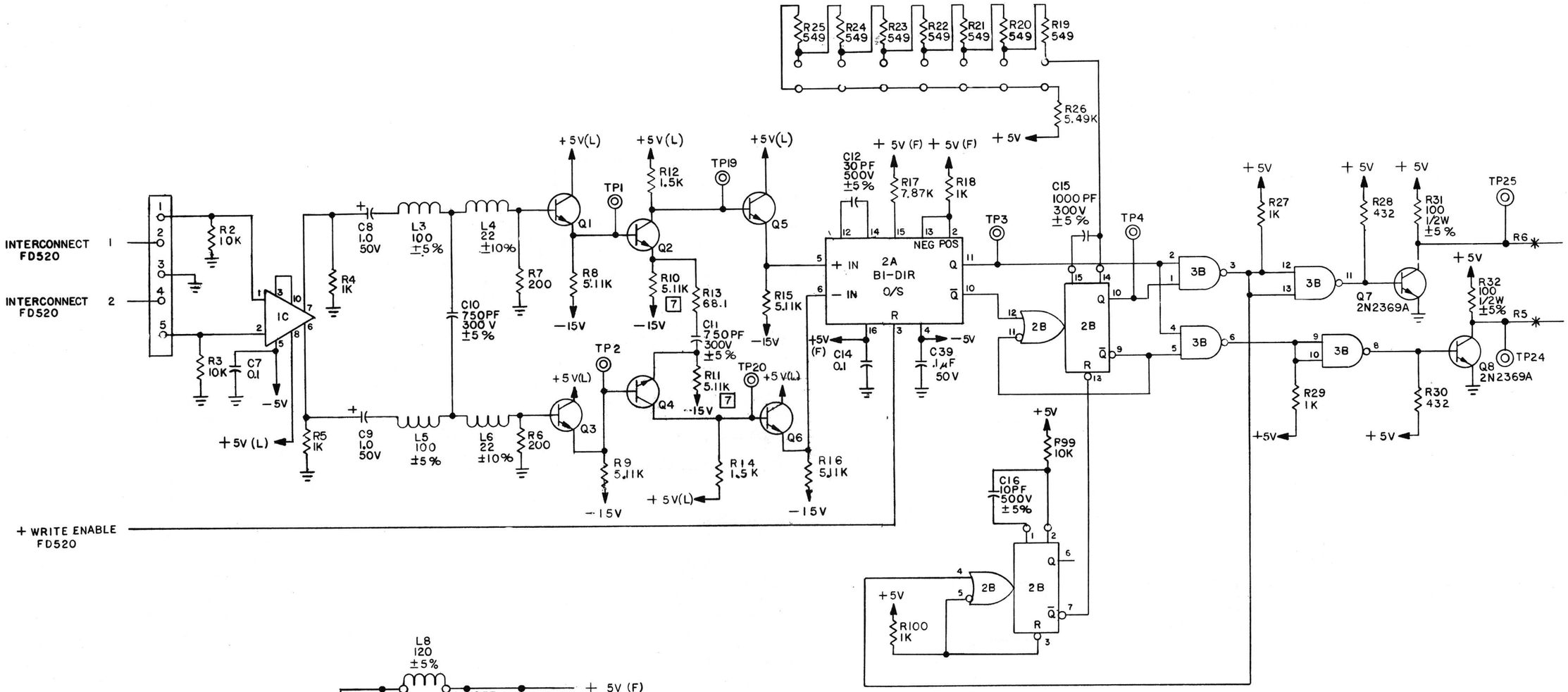
DATE	CHANGE NO.	DATE	CHANGE NO.	TECHNICAL APPROVAL			MEMOREX EQUIPMENT GROUP	
APR-72	2562						NAME	SYSTEM LOGIC DIAGRAM
MAR 73	21051							READ/WRITE/ACCESS
							DESIGN	
							DETAIL	R.E.K. FEB'72
							CHECK	J.W. 2-73
							APPRO	J.F.C. 5-4-73

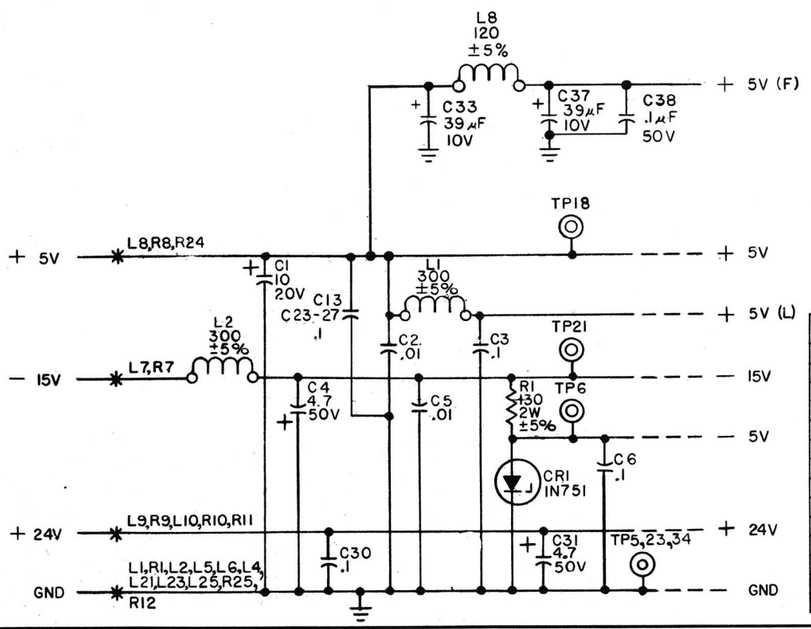
204172

FD320

D

RELEASED FOR ASSEMBLY
012126





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

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. RIO OR RII 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	

DATE	CHANGE NO.	DATE	CHANGE NO.	TECHNICAL APPROVAL	
MAR 73	21061				
NOV 73	21081				
APR 74	21082				

MEMOREX EQUIPMENT GROUP

NAME SCHEMATIC DIAGRAM
READ/WRITE/ACCESS

DESIGN
DETAIL HP 2-8-73
CHECK 2-15-73
APPRO 5/73

012127

FD510

D

RELEASED FOR ASSEMBLY
012126

— WRITE ENABLE FD500

+ WRITE ENABLE FD510

INTERCONNECT 1 FD510

INTERCONNECT 2 FD510

+ HEAD UNLOADED FD500

— PWR UP RESET FD500

R4 R2 L11 L3 L12 R3

+5V R103 C81

R96 4.75K

+24V

CR17

R98 2.4K 1/2W ±5%

R77 10K C32 2200PF

TP36 TP29

R75 100 1/2W ±5% C28 .1 R76 1K

R78 1K

R87 4.75K R85 1K R86 13K

Q28 2N2907A

R91 4.75K CR13 IN746 3.3V ±1% R82 TP33 R83 5.6E

Q27 2N2907A

R69 4.75K CR12

R84 510 1W ±5%

Q26 2N2907A

TP30

R92 1K C29 .1

R90 8.25K

Q29

TP31

R93 4.75K

TP32

Q30

R88 4.75K R94 4.75K

R80 24.3K R79 4.75K R95 4.75K

R81 2K Q25

R104 681

TP35

R97 10K C34 .015 UF

1E 2E 2F 3E 3F 4E 4F 1F

(SHEET 2 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 1-8-73
CHECK 5-15-73
APPRO 5/73

012127

FD520

D

RELEASED FOR ASSEMBLY
012126

+ HEAD UNLOADED FD520

— PWR UP RESET FD520

— WRITE ENABLE FD520

(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	HP	2-8-73
CHECK		5/14/73
APPRO		5/23

012127

FD500

D

USED ON ASSEMBLY	PART NO 25000-0
25002-3	
25003-3	
25004-3	
25005-3	
25006-3	
25007-3	

+ READ/WRITE (1) XS111
+ READ/WRITE (5) XS111
CR18
CR19
Q44
Q43
R125 8.09K 1/8W, 1%
R126 9.09K 1/8W, 1%
R123 49.9 1/8W, 1%
R124 49.9 1/8W, 1%
R121 2K
R122 2K
C3 .1, 50V +80% -20%
C34 47 50V
C33 .1, 50V +80% -20%
5F
C32 430 300V ±5%
C29 1.0 35V
L6 270uH ±10%
L7 270uH ±10%
L5
L4
C30 1.0 35V
R76 562 1/8W 1%
R74 1.62K 1/8W 1%
R73
R48 121 1/8W 1%
C36 100 500V ±5%
CR5
R47 510 1/8W 1%
R69 261 1/8W 1%
R68 210 1/8W 1%
R127 100
R75 1.62K 1/8W 1%
Q25
Q23
Q19
Q16
Q17
Q24
Q22
Q18
R53 1.5K 1/8W 1%
R71 49.9 1/8W 1%
R49
R52 1.5K 1/8W 1%
R77 562 1/8W 1%
R70 49.9 1/8W 1%
R72
R50
TP1
TP2
TP4
C2C 150pf 3.5KV ±5%
R34 8.2K
C17 30pf 500V -6%
C12 .1, 50V +80% -20%
C13 .1, 50V +80% -20%
R35
TP16
TP2
+5V
+5V_A
+5V_T
-5V_A
-5V_T
-IN
+IN
5C
R6
Q9
4E
4D
4C O/S
R7
R8
Q7
Q10
R31 5K CW
R30 5K CW
R32 3.32K 1/8W 1%
R33 4.99K 1/8W 1%
C16 1200pf 100V, 5%
C11 1200pf 100V, 5%
DATA SEPARATOR
USED ONLY ON ASM 25004-3 25005-3 25006-3 25007-3
TP21
TP24
3B
3D
L16 — READ DATA
L17 — SEP DATA
L19 — SEP CLOCK

— READ GATE XS111
+ PULL UP XS111
+ DIRECTION SELECT
L15
R25 150 1/2W
2D
2B
2C
R17
3D
R24 430
R20 430
R44 430
R37 430
R43 430
R55 430
R36 24 2W
R19 24 2W
R54 22 2W
CR10 IN4003
CR11 IN4003
CR9 IN4003
+24V
Q11
Q2 2N3054
Q21
Q1 2N3054
Q3 2N3054
+24V RTN
L8 — Φ1
L5 — Φ2
L2 — Φ3

R86 470K
R87
R88
Q26 2N2907A
Q27
TP7
C24 .1
R85 4.7K
TP27
3A
- STEP
L6
- DRIVE SEL INT XS111
R81 560
R82 4.7K
R79 560
R84 510
Q29 2N2907A
Q30 2N2907A
Q31
TP26
C35 .015
R78 20K
R80 430
R83 240
C5 510pf 500V 5%
2A
+ TRK 00
R6
+ HD LOAD XS111
— POWER ON RESET XS111
L12 — TRK 00

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			
7410	3B, 2C			
7438	2A, 1B	1B4		
7474	1E, 3C		4	1
7476	2B		5	13
7486	2D		14	7
UA733	5F		—	—
BT20	5C		—	8
9602	1C, 4C		16	8

REF DESIGNATION LAST USED	REF DESIGNATION NOT USED
C38	R9, 10, 11, 39, 13
CR19	TP10, 17, 18, 19, 22, 23, 25,
L9	28, 29, 30, 31, 32, 33,
Q44	34
R128	
TP35	

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.

XS110

MUST CONFORM TO ENGINEERING SPEC. ES 30000-0
MATERIAL
TOLERANCE UNLESS OTHERWISE NOTED
LINEAR ±.XX ±.XXX
ANGULAR ±
CASE DEPTH
HARDNESS
SURFACE TREATMENT ES
CORNERS EDGES BROKEN OUTSIDE MAX INSIDE MAX

EC HISTORY

DATE	NO.	
3-16-4	0114	
4-11-4	0130	
7-30-4	0191	DESIGN
9-7-4	0257	APPRO
12-7-4	0259	
5-7-5	0358	D

SHUGART ASSOCIATES
TITLE: SCHEMATIC DIAG, DISKET
5/4/74 RELEASED FOR ASSEMBLY
SEE ABOVE
SHEET 1 OF 2
SCALE — DOC CODE SC PART NO. 25000-0 REV/EC 0358

USED ON ASSEMBLY	PART NO 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) R13 150Ω ½W
- 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

-5V RES FOR -12 TO -15 INPUT

CUT TRACE "L" ON ASM 25003-3 25005-3 25007-3

SECTOR SEPARATOR USED ONLY ON ASM 25006-3 25007-3

XS111

MUST CONFORM TO ENGINEERING SPEC. ES 30000-0

MATERIAL	TOLERANCE UNLESS OTHERWISE NOTED	EC HISTORY DATE	NO.
CASE DEPTH	LINEAR .XX ±, .XXX ±		
HARDNESS	ANGULAR ±		
SURFACE TREATMENT ES	CORNERS EDGE BROKEN OUTSIDE MAX, INSIDE MAX		

SHUGART ASSOCIATES

TITLE SCHEMATIC DIAG, DISKET

DETAIL	Jw	8/6/74	RELEASED FOR ASSEMBLY
DESIGN			SEE ABOVE
APPRO	RW	8/74	SHEET 2 OF 2

SCALE — | DOC CODE SC | PART NO 25000-0 | REV EC 0358