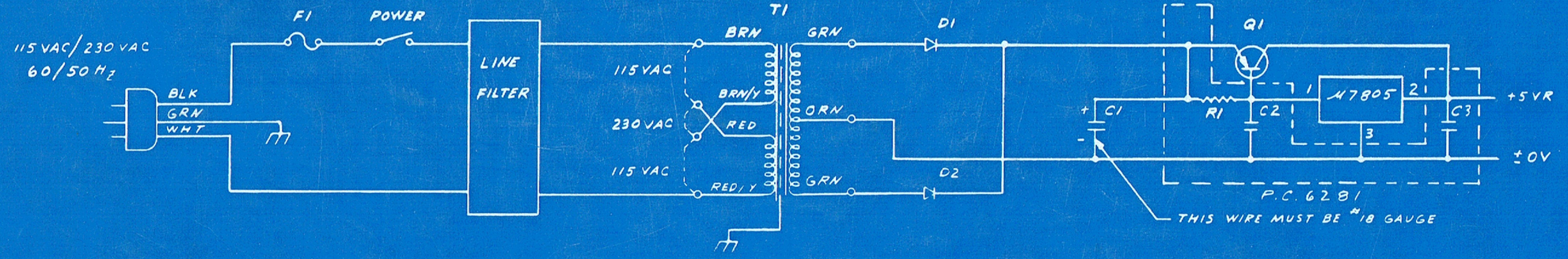
*PRODUCT SERVICE*

# 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.
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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.

# MODEL 2200 SYSTEM

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

| | TITLE | DRAWING # | NO. OF SHEETS |
|---|---|---|---|
| L558 | TD MOTOR CONTROL | 6429-1 | 2 |
| L559 | TD AC CONTROL | C6430-1 | 1 |
| L567 | REGULATOR | D6439 | 1 |
| 6222 | 2219 MOTHERBOARD | E6222 | 1 |
| 6225 | 2234A/44A CONTROLLER | E6225 | 1 |
| 6303 | 2215 KBD (MICRO SW.) | C6303-1 | 1 |
| 6307 | RAM | E6307-1 | 1 |
| 6308 | MEMORY CONTROL (PROMS) | E6308-1 | 1 |
| 6308-1 | MEMORY CONTROL | E6308-2 | 1 |
| 6309 | IC & PC REGISTERS | E6309-1 | 1 |
| 6310 | ALU | E6310-1 | 1 |
| 6311 | I/O CONTROL | E6311-1 | 1 |
| 6312 | 60 Hz CRT CONTROL | E6312-1 | 1 |
| 6312A | 60 Hz CRT CONTROL | E6312A-1 | 1 |
| 6313 | CRT CONTROL | E6313-1 | 1 |
| 6316 | 2217 CONTROLLER | C6316-1 | 1 |
| 6317 | 2215/22 CONTROLLER (PROM) | E6317-1 | 1 |
| 6322 | MOTHERBOARD | E6322-1 | 1 |
| 6324 | 2217/18 MOTHERBOARD | D6324-1 | 1 |
| 6325 | 20-BIT ROM | 6325-1 | 2 |
| 6330 | 2222 KBD. (OAK) | C6330-1 | 1 |
| 6348 | 2215 KBD. (OAK) | C6348-1 | 1 |
| 6350 | 50 Hz CRT CONTROL | E6350-1 | 1 |
| 6350A | 50 Hz CRT CONTROL | E6350A-1 | 1 |
| 6361 | 8-BIT ROM | D6361-1 | 1 |
| 6361 | 8-BIT ROM PATCH | E6361-1 | 1 |
| 6362 | 2227 CONTROLLER | E6362-10,12 | 1 |
| 6362-1 | 2207 CONTROLLER | E6362-11,13 | 1 |
| 6367 | 2215/22 CONTROLLER | E6367 | 1 |
| 6368 | 2201/02/12/32 CONTR. (ROM) | D6368 | 1 |
| 6374 | 2203 CONTROLLER | D6374-1 | 1 |
| 6375/ 6375-14 | 2214/30/40/42 CONTROLLER | D6375-1 | 1 |
| 6379 | 2221/31/41/61 CONTROLLER | D6379-1 | 1 |
| 6383 | MINI ROM TESTER | C6383-1 | 1 |
| 6388 | 2218 CONTROLLER | D6388-1 | 1 |
| 6394 | 2250 CONTROLLER | D6394-1 | 1 |
| 6443 | 2220/2223 KEYBOARD | D6443 | 1 |
| 6449 | 2234A/44A MEMORY BOARD | D6449 | 1 |
| 6522 | MOTHERBOARD | E6522-1 | 1 |
| 6527 | A1/A1E SUPER PATCH | D6527-10 | 1 |
| 6527 | B1 SUPER PATCH | D6527-11 | 1 |
| 6527 | B2/B2E SUPER PATCH | D6527-12 | 1 |
| 6527 | B3K SUPER PATCH | D6527-13 | 1 |

| | TITLE | DRAWING # | NO. OF SHEETS |
|---|---|---|---|
| 6528 | DUAL LANG. KBD. CONTR. | E6528-1 | 1 |
| 6529 | DUAL LANG. CRT. CONTR. | E6529-1 | 1 |
| 6533 | 2252 CONTROLLER | E6533-1 | 1 |
| 6534 | 2234/44 CONTROLLER | E6534-1 | 1 |
| 6541 | DISK CONTROLLER | D6541-1 | 1 |
| 6541-1 | ALL DISK CONTROLLER | D6541-1 | 1 |
| 6543 | 2224 CONTROLLER | D6543-1 | 1 |
| 6547 | C1E SUPER PATCH | E6547-14 | 1 |
| 6547 | A1/A1E SUPER PATCH | E6547-10 | 1 |
| 6547 | B4/B4E SUPER PATCH | E6547-11 | 1 |
| 6547 | B5K SUPER PATCH | E6547-12 | 1 |
| 6548 | NULL MODEM | B6548-1 | 1 |
| 6560 | 2200S MOTHERBOARD | E6560 | 1 |
| 6561 | 2201/02/12/32 CONTROLLER | D6561 | 1 |
| 6561-1 | 2201/02/12/32 CONTROLLER | D6561-1 | 1 |
| 6562 | CASSETTE & KBD CONTROLLER | E6562 | 1 |
| 6592 | 2252A CONTROLLER | E6592 | 1 |
| 6707 | 2200S RAM | E6707-1 | 1 |
| 6708 | 2200S MEMORY CONTROL | E6708 | 1 |
| 6709 | IC & PC REGISTERS | E6709 | 1 |
| 6710 | ALU | E6710 | 1 |
| 6713 | PROG. CRT CONTROLLER | E6713 | 1 |
| 6717 | 2200 RAM | E6717 | 1 |
| 6723 | BI SYNC CONTROLLER | E6723 | 1 |
| 6724 | BI SYNC XMIT/REC | E6724 | 1 |
| 6725 | 20-BIT ROM | E6725 | 1 |
| 6735 | 20-BIT ROM | E6735 | 1 |
| 6741 | KBD/PRINT/TAPE CONTR. | E6741 | 1 |
| 6742 | KBD/PRINT/DISK CONTR. | E6742 | 1 |
| 6768 | 2200S 9 I/O MB | E6768 | 1 |
| 6771 | KEYBOARD CLICKER | C6771 | 1 |
| 6785 | 2230 MXA CONTROLLER | E6785 | 1 |
| 6786 | 2230 MXB CONTROLLER | E6786 | 1 |
| 7024 | BI SYNC XMIT/REC | E7024 | 1 |
| 7042 | KBD/PRINT/DISK CONTR. | E7042 | 1 |
| 2200 | PWR SUPPLY | D6422-999 | 1 |
| 2200S | 3 OR 6 I/O PWR SUPPLY | D6627-999 | 1 |
| 2200S | 9 I/O PWR SUPPLY | D6800-999 | 1 |
| 2200S | (3,6) AND 9 I/O HEAT SINKS | C6800-998 C6627-998 | 1 |
| CPU | POWER CABLE | C6422-125 | 1 |
| 2200 | TC CABLE | C6482-5 | 1 |
| 2200 | MOTOROLA P.C. (CRT) | 63D65165A19 | |

| COMPONENT | SIZE/TYPE | W.L. PART NO. | QTY. |
|---|---|---|---|
| R1-8,12,13,15,17, 21,22,24,27, 28 | 1K ¼W | 330-3010 | 17 |
| R9 | 2.2K ¼W | 330-3022 | 1 |
| R10 | 470Ω | 330-2047 | 1 |
| R11 | 100K | 330-5010 | 1 |
| R14 | 56K | 330-4056 | 1 |
| R16,18,23,30 | 4.7K | 330-3047 | 4 |
| R19,25,29 | 390Ω | 330-2039 | 3 |
| R20,26 | 47K | 330-4047 | 2 |
| C1 | 5.6μf | 300-4017 | 1 |
| C2 | 15μf | 300-4022 | 1 |
| C3 | 1μf,35V,TANT | 300-4000 | 1 |
| C4 | 680pf | 300-1680 | 1 |
| C5-9 | .01μf | 300-1903 | 5 |
| C10,11 | 15μf,20V,TANT | 300-4022 | 2 |
| Q1,2,3 | 2N3725 | 375-1027 | 3 |
| TRANSIPAD | LARGE | 375-9001 | 3 |
| D1,2 | GER. DIODE | 380-0000 | 2 |

| LOCATION | TYPE | W.L. PART NO. | TERM. NO. ±0V | TERM. NO. Vcc+5VR | QTY. |
|---|---|---|---|---|---|
| L1 | SN7407N | 376-0056 | 7 | 14 | 1 |
| L2,4 | SN7402N | 376-0016 | 7 | 14 | 2 |
| L3 | SN7406N | 376-0055 | 7 | 14 | 1 |
| L5,9 | 9602 | 376-0104 | 8 | 16 | 2 |
| L6,7 | SN7400N | 376-0002 | 7 | 14 | 2 |
| L8 | SN7409N | 376-0085 | 7 | 14 | 1 |
| L10 | SN7404N | 376-0010 | 7 | 14 | 1 |
| L11 | SN7408N | 376-0081 | 7 | 14 | 1 |
| L12,13 | SN74175N | 376-0119 | 8 | 16 | 2 |

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

CONN.1: MaX, M1X, +26V, CHAS., -12VR, C.PY, M2Y, M1Y / CPX, +5VR, ±0V, +12VR, DAI, DA0, DON, GION, BSY, LOP, GOSTB, REWIND SWITCH, GHDN, DSTB, GB1

CONN.2: ±0V, +5VR / RESET, NACF, PACF, GHS, NACR, PACR, GB8, GB7, GB6, GB5, GB4, GB3, GB2 — WIRING SIDE / COMP. SIDE

COMPONENT LAYOUT

WANG 6429 R2

COMP. SIDE — WIRING SIDE — P.C. BOARD L558

| NO. | REVISION | BY | DATE |
|---|---|---|---|
| 1 | REVISED PER ECN 3666 APP'D: | J.N.-Y | 6-14-73 |
| 2 | CHANGED PER RFA-0167 APP'D: | J.N.-Y | 6-7-73 |
| 3 | REL PER RFA 0396 LAREW T 9-18-73 | | 10-17-73 |
| 4 | REL PER ECN 3924 APP'D: | J.N.-Y | 11-29-73 |

WANG PART NO. —— 220-0104

WANG LABORATORIES INC.
TEWKSBURY, MASS.

| MODEL NO. | DRAWN | CHECKED | APP'D | APP. | |
|---|---|---|---|---|---|
| 2200 | ER | | 6-8-73 | | 6-8-73 |

TITLE: SCHEMATIC LOGIBLOC #L558
MOTOR & PINCH CONTROL

SHT 1 OF 2 — DWG. NO. 6429-1 — REV. 4

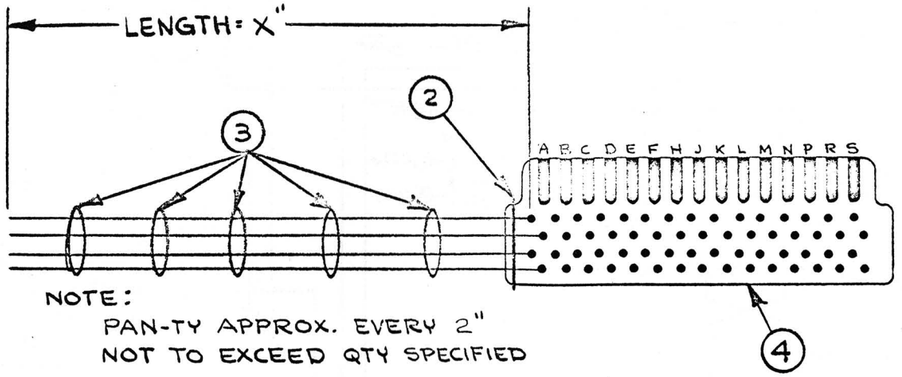
6429-1

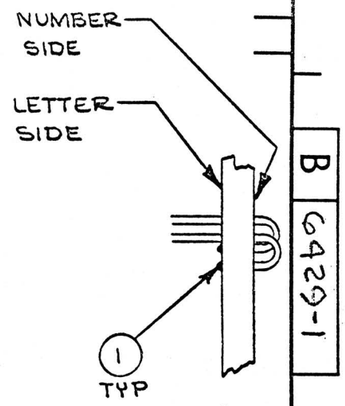
DO NOT SCALE

| SIGNAL | SOLDER POINT | WIRE COLOR | CONN. PIN Nº | WIRE X" LG. | W.L. PART Nº | WIRE GAUGE |
|---|---|---|---|---|---|---|
| $RCL_o$ | A | WHT/BRN | A | 14 1/4" | 600-3091 | # 26 |
| $DIL_1$ | B | WHT/RED | B | 14 1/4" | -3092 | 26 |
| $DIL_o$ | C | WHT/ORN | C | 14" | -3093 | 26 |
| ±0V | J | BLK | J | 14 1/2" | -2000 | 24 |
| +5VR | K | RED | K | 14 1/2" | -2002 | 24 |
| $M_1Y$ | L | YEL | L | 13 1/2" | -2004 | 24 |
| $M_2Y$ | M | WHT/YEL | M | 13 1/2" | -2094 | 24 |
| CPY | N | GRY/YEL | N | 13 1/4" | -2084 | 24 |
| $M_1X$ | P | WHT/GRN | P | 13" | -3095 | 26 |
| $M_2X$ | R | WHT/BLU | R | 13" | -3096 | 26 |
| CPX | S | WHT/VIO | S | 13" | -3097 | 26 |
| LOP | 1 | BRN | 1 | 14 1/4" | -3001 | 26 |
| LTCK | 2 | PINK | 2 | 14" | -3022 | 26 |
| LDK | 3 | ORN | 3 | 14" | -3003 | 26 |
| ±0V(C1) | 8 | WHT/BLK | 8 | 14 1/2" | -2090 | 24 |
| +12VR | 9 | BLU | 9 | 13 1/2" | -2006 | 24 |
| CHASSIS | 10 | GRN/YEL | 10 | 13 1/4" | -2054 | 24 |
| -12VR | 11 | WHT | 11 | 13 1/4" | -2009 | 24 |
| +26V | 12 | VIO | 12 | 13" | -2007 | 24 |
| $\overline{FSX}$ | 13 | GRN | 13 | 13 3/4" | -3005 | 26 |
| $\overline{RSX}$ | 14 | GRY/BLU | 14 | 13 3/4" | -3086 | 26 |
| $\overline{HI}$ | 15 | VIO/GRY | 15 | 13 3/4" | 600-3078 | # 26 |

| 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 |
|---|---|---|---|---|---|
| 510-5223C | 4 | 1 | P/C FINGER BOARD | | |
| 605-1004 | 3 | 5 | CABLE TIE | | PAN-TY |
| 605-1001 | 2 | AR | LACING, BLACK | | |
| 660-0202 | 1 | AR | SOLDER | | 63-37 ALLOY |

| Qty. Per Unit | FIRST USED ON | ASSY USED ON |
|---|---|---|
| 1 | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| NO. | REVISION | DATE | BY |
|---|---|---|---|
| 1 | SEE SHEET #1 LARRY T 9-19-73 | | |

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

MATERIAL

FINISH

MODEL NO. 2216/17, 2217 (4)

SEE ENGRG SPECIFICATIONS No. ES-1001

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

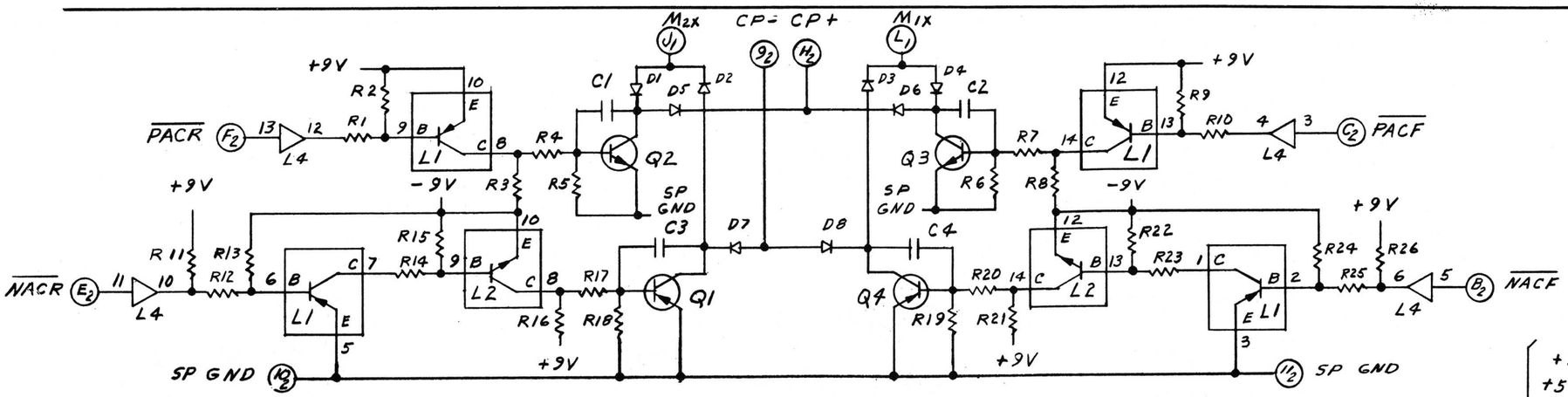
SCALE 1:1 SHT 2 OF 2

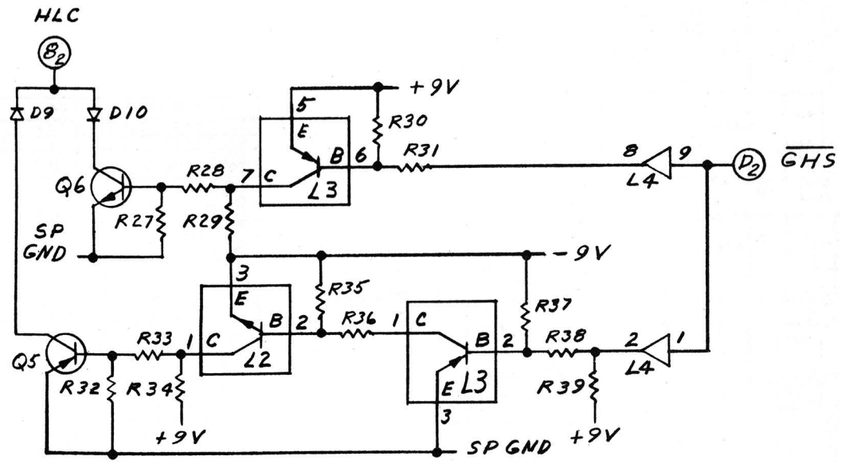
| BY | DATE | APPROVED BY | DATE |
|---|---|---|---|
| DWN LARRY T | 9-19-73 | E ENGR | |
| CHK CES | 9/25/73 | M ENGR | |
| E. C. CONTROL | | MFG ENGR JJ | 10-17-73 |

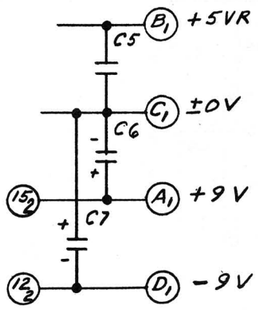
TITLE
MOTOR & PINCH CONTROL CABLE

| WANG PART NUMBER | SIZE | DRAWING NUMBER | REV. |
|---|---|---|---|
| 220-0104 | B | 6429-1 | 4 |

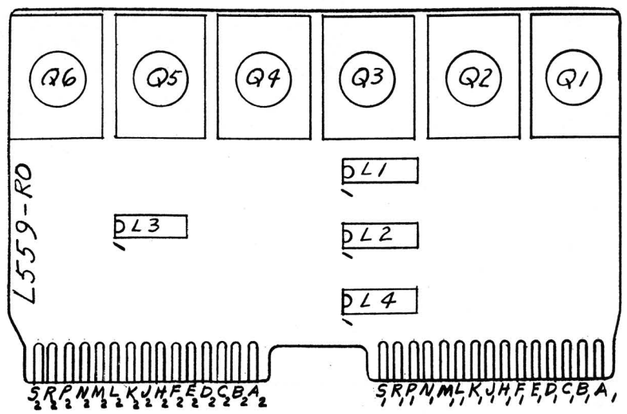
B 6429-1



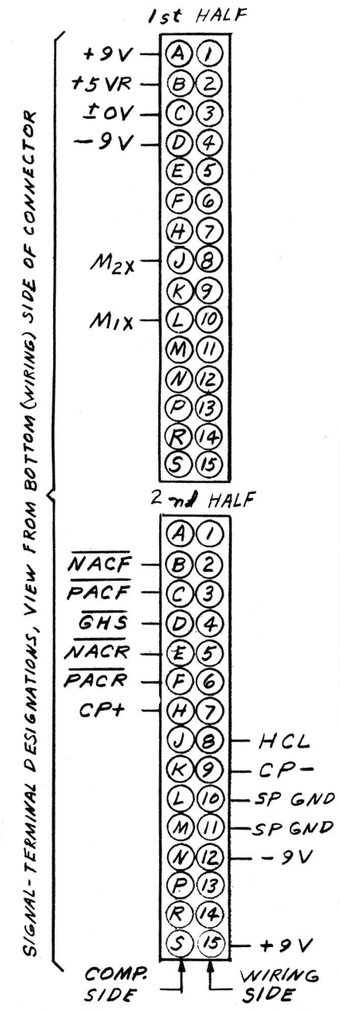




COMPONENT LAYOUT




| LOCATION | TYPE | W.L. PART No. | TERM. No. IOV | TERM. No. $V_{CC}$ +5VR | QTY |
|---|---|---|---|---|---|
| L1, 3 | FPQ3468 | 376-0107 | — | — | 2 |
| L2 | FPQ3725 | 376-0106 | — | — | 1 |
| L4 | SN7407N | 376-0056 | 7 | 14 | 1 |

| COMPONENT | SIZE/TYPE | W.L. PART No. | QTY |
|---|---|---|---|
| R1, 10, 11, 14, 23, 26, 31, 36, 39 | 680Ω 1/4W | 330-2068 | 9 |
| R2, 5, 6, 9, 18, 19, 27, 30, 32 | 2.2K 1/4W | 330-3022 | 9 |
| R3, 8, 16, 21, 29, 34 | 4.7K 1/4W | 330-3047 | 6 |
| R4, 7, 17, 20, 28, 33 | 100Ω .2W | 337-2010 | 6 |
| R12, 25, 38 | 3.3K 1/4W | 330-3033 | 3 |
| R13, 24, 37 | 6.8K 1/4W | 330-3068 | 3 |
| R15, 22, 35 | 47K 1/4W | 330-4047 | 3 |
| | | | |
| C1, 2, 3, 4 | .1μF MYLAL | 300-2210 | 4 |
| C5 | .01μF CER | 300-1903 | 1 |
| C6, 7 | 15μF 20V TANT | 300-4022 | 2 |
| | | | |
| D1, 2, 3, 4, 5, 6, 7, 8, 9, 10 | EM403 | 380-4000 | 10 |
| | | | |
| Q1, 4, 5 | 2N5954 | 375-1032 | 3 |
| Q2, 3, 6 | 2N40250 | 375-1028 | 3 |




REVISIONS

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

MATERIAL

FINISH SCALE

WANG LABORATORIES INC. TEWKSBURY, MASS.

MODEL NO. 2200 CASSETTE (TD 24) | DRAWN JB 2-21-73 | CHECKED | APP. | APP. 2/21/73

TITLE SCHEMATIC LOGIBLOC L559 A C MOTOR CONTROL

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

DO NOT SCALE

EXTERNAL P.C. BOARD 6355

410-0090 50 Hz
410-0088 60 Hz

250V 3 A-SB
115/230 VAC 60 Hz 125V 5 A-SB POWER
115/230 VAC 50 Hz

BLK
GRN
WHT
FAN
115 VAC
230 VAC
BLK/RED
BLK/YEL
BLK/GRN
RED
8 MF FOR 50 Hz
6 MF FOR 60 Hz
BRN/YEL
YEL

14VAC
IN4719
+14V
100Ω 5W
6000 MF 20V
±0V

EXTERNAL 14VAC
.6A-SB
OUTPUT CONNECTOR
IN1200A
5Ω 25W
+8.5V
124000 MF 15V
±0V
GRN
BLK/WHT
ORN
RED/YEL
BLU
BLU/YEL

MDA970-1
600 MF 20V
100Ω 5W
+17.5V
-17V
-20V
±0V

OUTPUT CONNECTOR

| PIN No. | SIGNAL |
|---|---|
| 1,2,3,4 | +5VRL |
| 5,6 | +5VRM |
| 7 | +8.5VU |
| 8 | -17VU |
| 9 | +17.5VU |
| 10,11,12 | ±0V (2EA) |
| 13 | 115VAC (HOT) |
| 14 | CH. GND |
| 15 | 115VAC (NEUT) |
| 16 | PNC |
| 17 | PNO |
| 19 | WTR |
| 21 | +12VR |
| 22 | +8VR |
| 23 | -12VR |
| 24 | -15VR |

| LOCATION | TYPE | W.L. PART NO. | TERM. NO. ±0V | TERM. NO. Vcc +5VR | QTY |
|---|---|---|---|---|---|
| L1,2,4,5 | 723C | 376-0066 | — | — | 4 |
| L3,6 | LM304 | 376-0134 | — | — | 2 |

COMPONENT LAYOUT

L567-R2

-12VR -15VR +12VR +8VR +5VRM +5VRL
R34 R40 R30 R13 R17 R2

SRPNMLKJHFEDCBA

EXTERNAL SINK COMPONENT LAYOUT WIRING SIDE

X1 MDA970 X2 X3 X4 X5 1N1200A (4) X6 X7 X8 X9 X10 X11

EXTERNAL

L4 C.S. M.I. C.L. F.COMP. CB
Q5 B1+5L E2+5L B2+5L
2N6315 X8 X7 +8V X6
2N5303 .15Ω 5W .15Ω 5W
+5VRL

L5 C.S. M.I. C.L. F.COMP. C9
Q1 B1+8R E1+8R
2N6315 X9
+8VR

L1 C.S. M.I. C.L. F.COMP. C12
Q1 B1+5M E2+5M B2+5M
2N6315 2N5303 X4 X5 +8V .15Ω 5W
+5VRM

L2 C.S. M.I. C.L. F.COMP. C9
Q2 B1+12R E1+12R
2N6315 X1 1Ω 2.5W
+12VR

L3 GND ADJ REF BOOSTER REG. COMP. SUP. C18
Q3 B1-12R
.6Ω 3.75W
2N5956 2N6315 X3 X2
-12VR
B2-12R

L6 ADJ GND REF BOOSTER REG. COMP. SUP. C21
Q6 B1-15R
.6Ω 3.75W
2N5956 2N6315 X11 X10
-15VR
B2-15R

14VAC 14VAC
D4 D5 D6 D7 D8
+5VRL R50
Q4 WTR
R48 R49 R46 R47 C23 C24 R51

| COMPONENT | SIZE/TYPE | | W.L. PART NO | QTY |
|---|---|---|---|---|
| R1,16,23,26,32,38,44 | 1.5K | 1/4W | 330-3015 | 7 |
| R2,13,17,30 | 1K | POT | 336-1061 | 4 |
| R3,18 | 4.7K | 1/4W | 330-3047 | 2 |
| R4,6,15,19,21,27,46,47 | 1K | 1/4W | 330-3010 | 8 |
| R5, | 330Ω | 1/4W | 330-2033 | 1 |
| R7 | 560Ω | 1/4W | 330-2056 | 1 |
| R8,24 | 680Ω | 1/4W | 330-2068 | 2 |
| R9, | 100Ω | 1/4W | 330-2010 | 1 |
| R10 | 560Ω | 1/4W | 330-2056 | 1 |
| R11,20 | 470Ω | 1/4W | 330-2047 | 2 |
| R12 | 1KΩ | 1/2W | 331-0010 | 1 |
| | | | | |
| R22,28,39,45 | 220Ω | 1/4W | 330-2022 | 4 |
| R25 | 150Ω | 1/2W | 331-2015 | 1 |
| R29,36,42,14 | 2.2K | 1/4W | 330-3022 | 4 |
| R31,50 | 3.3K | 1/4W | 330-3033 | 2 |
| R33 | 6.8K | 1/4W | 330-3068 | 1 |
| R34,40 | 10K | POT | 336-1010 | 2 |
| R35 | 12K | 1/4W | 330-4012 | 1 |
| R37,43 | 27Ω | 1/4W | 330-1027 | 2 |
| R41 | 15K | 1/4W | 330-4015 | 1 |
| R48,49 | 10K | 1/4W | 330-4010 | 2 |
| R51 | 33K | 1/4W | 330-4033 | 1 |
| | | | | |
| C1,2,3,9,5,8,10,11,13,14,25 | 1MF | 35V TANT | 300-4060 | 11 |
| C6 | 15MF | 15V TANT | 300-4015 | 1 |
| C7 | 47MF | 15V TANT | 300-4020 | 1 |
| C9 | 82PF | CER | 300-1082 | 1 |
| C12 | .1MF | 35V TANT | 300-4002 | 1 |
| C15,17,20,23 | 10MF | 35V TANT | 300-4032 | 4 |
| C16 | 100PF | CER | 300-1100 | 1 |
| C18,21 | .001MF | CER | 300-1906 | 2 |
| C19,22 | .47MF | 35V TANT | 300-4021 | 2 |
| C24 | 33MF | 15V TANT | 300-4015 | 1 |
| | | | | |
| D1 | IN4734A | 3.3V | 380-2033 | 1 |
| D2 | IN5823 | | 380-3005 | 1 |
| D3,8 | DIODE SIL | | 380-1001 | 2 |
| D4,5,6,7 | DIODE SIL | | 380-1004 | 4 |
| | | | | |
| Q1,2,3,5,6 | 2N4037 | | 375-0016 | 5 |
| Q4 | 2N3019 | | 375-0017 | 1 |

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

1st HALF

| | | |
|---|---|---|
| A | 1 | +5VRM |
| B | 2 | +5VRL |
| C | 3 | ±0V |
| D | 4 | ±0V |
| E | 5 | B2+5L |
| F | 6 | +14V |
| H | 7 | E2+5L |
| J | 8 | B1+8R |
| K | 9 | B1+5L |
| L | 10 | E2+5M |
| M | 11 | B2+5M |
| N | 12 | +8VR |
| P | 13 | B1+5M |
| R | 14 | E1+8R |
| S | 15 | +12VR |

2nd HALF

| | | |
|---|---|---|
| A | 1 | +17.5V |
| B | 2 | E1+12R |
| C | 3 | B1+12R |
| D | 4 | -17V |
| E | 5 | -12VR |
| F | 6 | -15VR |
| H | 7 | B1 15R |
| J | 8 | B2-15R |
| K | 9 | -20V |
| L | 10 | B1-12R |
| M | 11 | B2-12R |
| N | 12 | ±0V |
| P | 13 | ±0V |
| R | 14 | WTR |
| S | 15 | |

±0V ±0V
14VAC 14VAC

COMP SIDE — WIRING SIDE

| REV | DR | DR | DR | DR | DR | DR | DR |
|---|---|---|---|---|---|---|---|
| DATE | 6-29-73 | 7-9-73 | 10-18-73 | 10-4-73 | 11-9-73 | 11-16-73 | 1-22-74 |
| REVISION | REVISED PER RFA 0354 APP'D B.O'H | ADDED REF DES'S OUTLINE APP'D B.O'H | REVISED PER ECN 3848 APP'D C.R.W. | REVISED PER ECN 3886 APP'D C.R.W. | PER ECN 3890 REVISED PER ECN 3886 APP'D C.R.W. | REVISED PER ECN 3905 APP'D C.R.W. | REVISED PER ECN 4012 APP'D W.F.L. |
| NO | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

WANG LABORATORIES INC.
TEWKSBURY, MASS.

| MODEL NO. | DRAWN | | APP. | |
|---|---|---|---|---|
| 2200 | DR | 3-15-73 | B.O'H | 5-21-73 |
| | CHECKED | 5-21-73 | APP. | |

TITLE: SCHEMATIC LOGIBLOC L567 AND POWER REGULATOR PC. BD. 6355

SHT OF | DWG. NO. D 6439-1 | REV 7

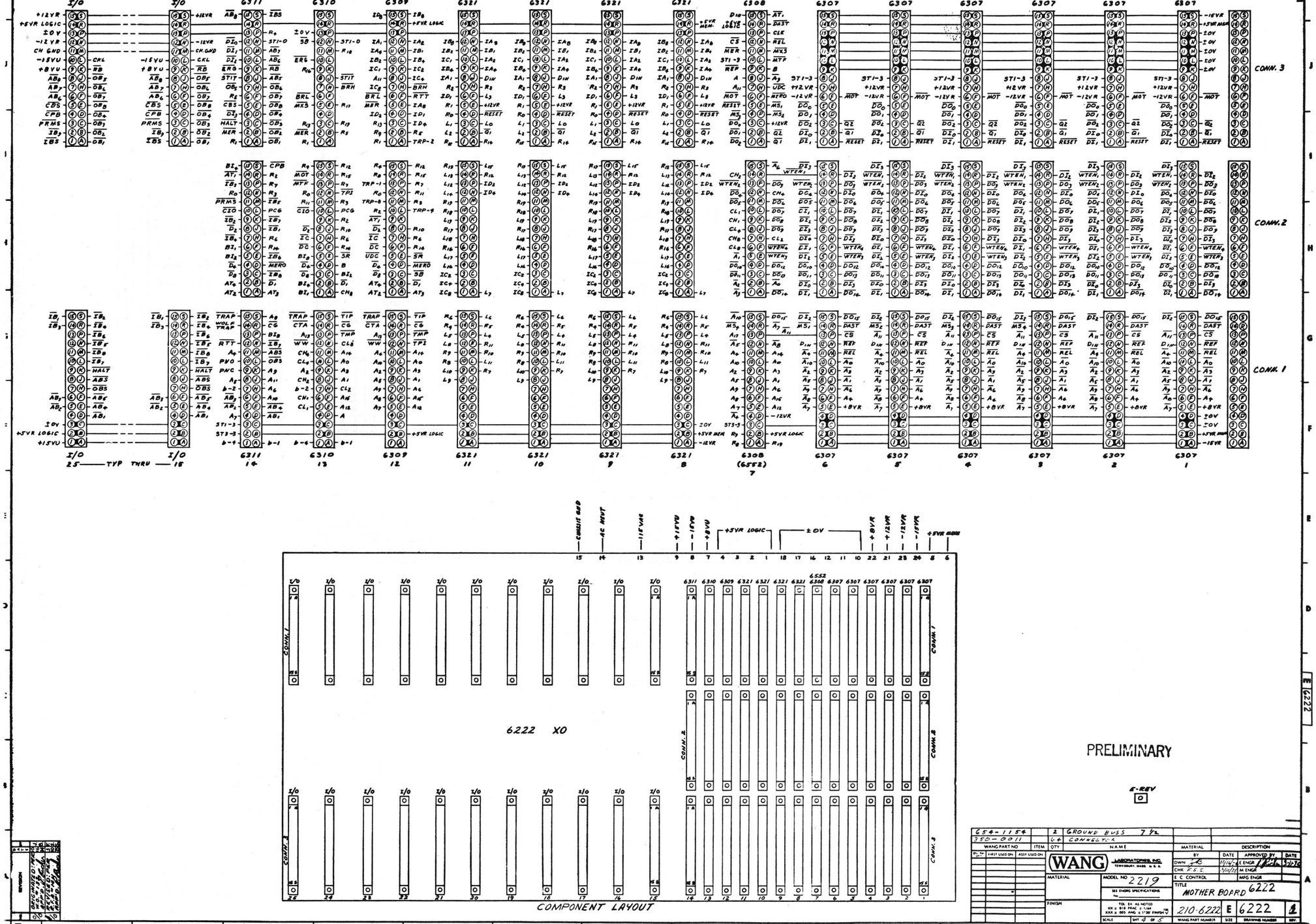
D 6439-1

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HOLE LEGEND

| | HOLE DIA. | TOL. |
|---|---|---|
| DRILLED ØS | .0135 to .125 | ±.003 |
| PUNCHED HOLE | .156 to .359 | ±.003 |
| TOOLING HOLE | .361 to .359 | ±.003 |

| IDENT. | DESCRIPTION | DATE |
|---|---|---|
| A | | |




PRELIMINARY

E-REV

| | | | | | |
|---|---|---|---|---|---|
| 654-1154 | 2 | GROUND BUSS 7.72 | | | |
| 750-0011 | 64 | CONNECTOR | | | |
| WANG PART NO | QTY | NAME | MATERIAL | DESCRIPTION | |
| | | | | BY / DATE / APPROVED BY / DATE | |
| WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A. | | | | DWN JB 11/14/72 E ENGR [illegible] 5/2/73 | |
| | | | | CHK F.S.C. 5/14/73 M ENGR | |
| MATERIAL | MODEL NO 2219 | | | E C CONTROL | MFG ENGR |
| SEE ENGRG SPECIFICATIONS No. | | | | TITLE MOTHER BOARD 6222 | |
| FINISH | TOL EX AS NOTED XX ± .015 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH | | | 210-6222 E 6222 1 | |
| SCALE | SHT 1 OF 5 | | | WANG PART NUMBER / SIZE / DRAWING NUMBER / REV | |

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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 | ± .005 |

| IDENT | DESCRIPTION | QTY |
|---|---|---|
| A | | |

| COMPONENT | W.L. NO. | TYPE |
|---|---|---|
| R1-7,29,31 | 330-4010 | 10K, ¼W |
| R8-28 | 330-2039 | 390Ω, ¼W |
| R27,28 | 330-2015 | 150Ω, ¼W |
| R44,45 | 330-2027 | 270Ω, ¼W |
| R32,40 | 330-2022 | 220Ω, ¼W |
| R43,42,43 | 330-3010 | 1K, ¼W |
| R 36,39 | 330-2018 | 120Ω, ¼W |
| R 37,38 | 330 3022 | 2.2K, ¼W |
| R34 | 330-2018 | 180Ω, ¼W |
| R33 | 330-3018 | 1.8K, ¼W |
| R46 | 330-1047 | 47Ω, ½W |
| R41 | 330-4047 | 47K, ¼W |
| R35,51 | 330-4022 | 22K, ¼W |
| R30 | 330-3068 | 6.8K, ¼W |
| R48,49 | 331-2047 | 470Ω ½W |
| * R50 | 330-3010 | 1K ¼W |
| D1 | 380-2100 | IN758A |
| XTAL-1 | 321-0008 | 10MHZ |
| C1,2 | 300-4022J | 15μF |
| C3-10/SPARES | 300-1903 | .01μF |
| C18,14,20 | 300-1930 | .1μF/50V |
| | | |
| C16,17,11,13 | 300-1820 | 820 PF |
| C12, 21,22 | 300-1047 | 47 PF |
| L18,24 | 376-7003 | 24½ SOCKET |
| J1 | 350-0022 | 44 PIN CONN. |
| Q2 | 380-1001 | |
| Q1,2 | 375-1011 | GT544 |
| Q3 | 315-0018 | 2N4037 |
| Q1,2 | 375-9004 | TRANSIPAD |
| HEAT SINK | 375-9010 | |
| Q3 | 375-9001 | TRANSIPAD |

* OPTIONAL

| LOCATION | TYPE | W.L. NO. | 20V | 5V |
|---|---|---|---|---|
| L1,2 | 74174 | 376-0098 | 8 | 16 |
| L3,15,24,21 | 74173 | 376-0137 | 8 | 16 |
| L4,21,22 | 7404 | 376-0010 | 7 | 14 |
| L5 | 7414 | 376-0139 | 7 | 14 |
| L6 | 7408 | 376-0081 | 7 | 18 |
| L7 | 74164 | 376-0102 | 7 | 14 |
| L9 | 7442 | 376-0008 | 8 | 16 |
| L10 | 93L24 | 376-0120 | 8 | 16 |
| L11-14 | 74151 | 376-0047 | 8 | 16 |
| L16 | 7474 | 376-0006 | 7 | 4 |
| L17 | TIM 0026 | 376-0114 | – | 6 (YELLOW DOT) |
| L18 | 4008 | 377 0208 | – | 12 |
| L19 | 74175 | 376-0119 | 8 | 16 |
| L20 | 74155 | 376-0049 | 8 | 16 |
| L23 | 4004 | 377-0206 | – | 5 |
| L24 | 4009 | 377-0207 | – | 12 |
| L8 | 7432 | 376-0093 | 7 | 14 |
| L29,28 | 9314 | 376-0108 | 8 | 16 |
| L31 | NE555 | 376-0124 | 1 | 8 |
| L30 | 8T09 | 376-0078 | 7 | 14 |
| SW 1 | SWITCH | 333-1501 333-3045 | – | – |
| L25 | 9602 | 376-0104 | 8 | 16 |

CONN-1

| | | | |
|---|---|---|---|
| +6V | A1 | B1 | |
| ±0V | A2 | B2 | ±0V |
| $\overline{AB_1}$ | A3 | B3 | ±0V |
| $\overline{AB_5}$ | A4 | B4 | $\overline{AB_2}$ |
| | A5 | B5 | $\overline{AB_3}$ |
| | A6 | B6 | |
| $\overline{AB5}$ | A7 | B7 | |
| | A8 | B8 | |
| $\overline{AB7}$ | A9 | B9 | |
| $\overline{AB8}$ | A10 | B10 | |
| $\overline{AB6}$ | A11 | B11 | |
| $\overline{AB4}$ | A12 | B12 | $\overline{AB_7}$ |
| $\overline{AB_1}$ | A13 | B13 | $\overline{AB_7}$ |

CONN-2

| | | |
|---|---|---|
| A1 | B1 | |
| A2 | B2 | |
| A3 | B3 | |
| A4 | B4 | |
| A5 | B5 | |
| A6 | B6 | |
| A7 | B7 | |
| A8 | B8 | |
| A9 | B9 | |
| A10 | B10 | |
| A11 | B11 | |
| A12 | B12 | |
| A13 | B13 | |

CONN-3

| | | |
|---|---|---|
| A1 | B1 | $\overline{EBS}$ |
| A2 | B2 | $\overline{EBS}$ |
| A3 | B3 | PRMS |
| A4 | B4 | CPB |
| A5 | B5 | |
| A6 | B6 | $\overline{AB_6}$ |
| A7 | B7 | $\overline{AB_7}$ |
| A8 | B8 | $\overline{AB_8}$ |
| A9 | B9 | |
| A10 | B10 | |
| A11 | B11 | |
| A12 | B12 | |
| A13 | B13 | |
| $\overline{EB8}$ | | |
| A14 | B14 | |
| A15 | B15 | |
| A16 | B16 | |
| A17 | B17 | |
| A18 | B18 | |
| A19 | B19 | |
| A20 | B20 | |
| A21 | B21 | |
| A22 | B22 | |
| A23 | B23 | |
| A24 | B24 | |
| -12V | A25 | B25 |
| ±0V | A26 | B26 ±5V |

CONN-4

| | | |
|---|---|---|
| | 1 | 1 |
| | 2 | 2 |
| | 3 | 3 |
| R0 | 4 | 4 R1 |
| R11 | 5 | 5 R2 |
| R12 | 6 | 6 R3 |
| R6 | 7 | 7 R7 |
| R5 | 8 | 8 R8 |
| R4 | 9 | 9 R9 |
| BALR | 10 | 10 |
| STRK | 11 | 11 ±0V |
| NPA | 12 | 12 ±0V |
| CARD | 13 | 13 ±0V |
| FAIL | 14 | 14 ±0V |
| RDY | 15 | 15 ±0V |
| | 16 | 16 ±0V |
| | 17 | 17 ±0V |
| FRED | 18 | 18 ZM |

E.REV. O

C1 C2 C3 C4 C5 C6 C7 C8 C16 C15 C23 C25 — +5VR, ±0V

J2 — R1 — J1 — L18 — L24 — Q3 Q1 Q2 — XTAL

COMPONENT LAYOUT

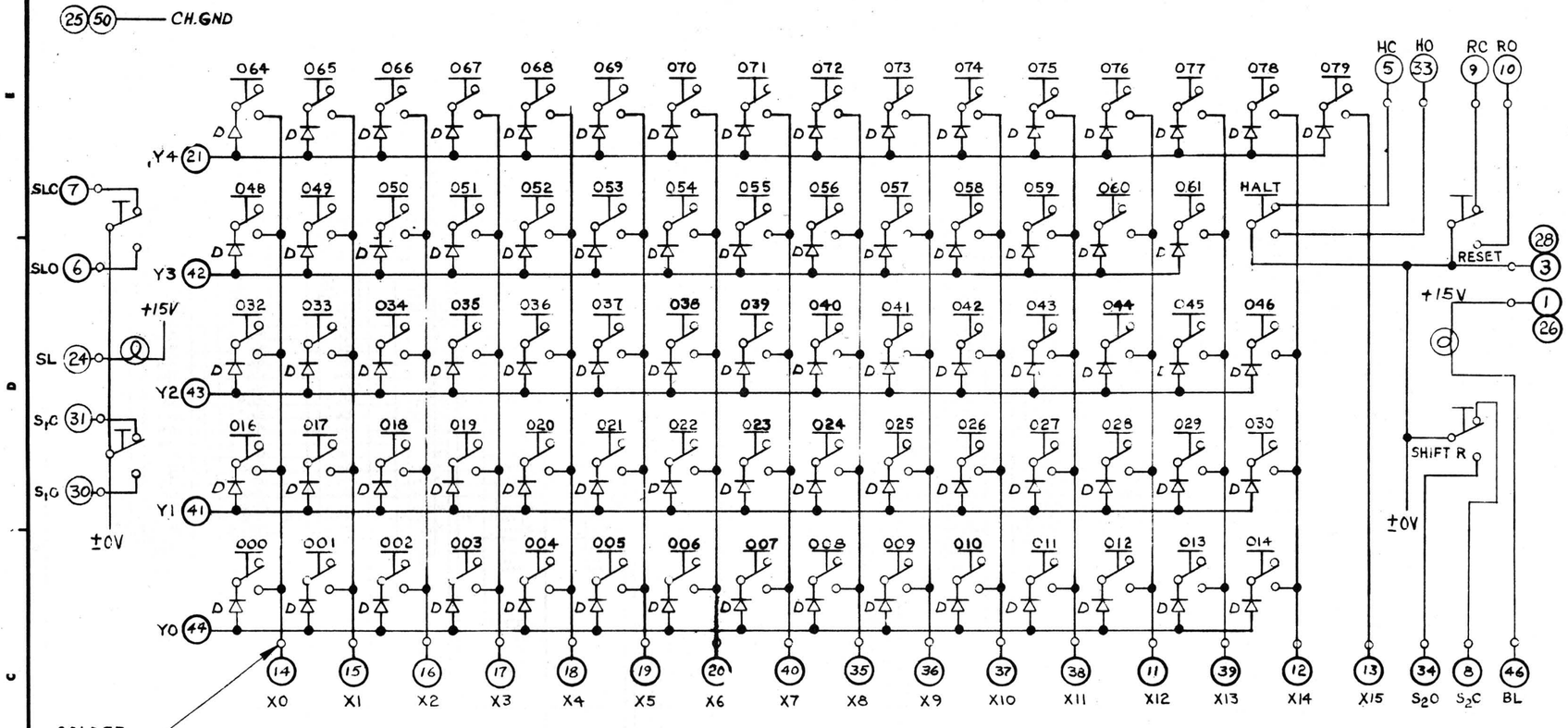
J1 pin assignments: +5VR, ±6V, -12VR, -10V4, D15, D14, D13, D12, D0, D2, SHVC, D1, A1, A3, A5, A7, D3, D1, D8, D7, D5, RESET, CHARN, D9, D10, D11, D12, D4, D6, D3, D2, A6, A4, A2, D0, CHARN0, ±0V, +5VR

* SEE DWG 6449 FOR RAM/ROM MATING BOARD

| REVISION | ECO | BY | DATE |
|---|---|---|---|
| A Original Issue | 16-1718 | BK | 8-23-73 |
| B CHANGED PER ECO 16-1844 AS NOTED ADDED R50 | 16-1878 | BK | 11-12-73 |
| C REV PER ECO 16-1892 APPROVED | 16-1915 | BK | 12-13-73 |

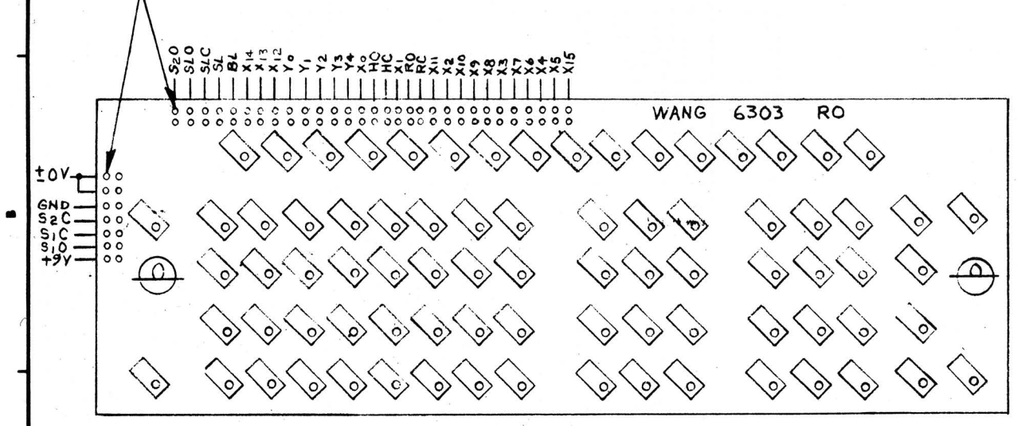
| WANG PART NO | ITEM | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| Qty. Per Unit / FIRST USED ON / ASSY USED ON | | | WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A. | | |
| | | | MATERIAL | MODEL NO 2221-A F 2249A | BY / DATE / APPROVED BY / DATE |
| | | | | SEE ENGRG SPECIFICATIONS No. | DWN. JCK 11/9/73 / E ENGR. 11/ / 2/14/74 |
| | | | FINISH | TOL EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .015 ANG ± 1°30' FINISH | CHK D. D. 2/14/74 / M ENGR / E C CONTROL / MFG ENGR |
| | | | | SCALE 3/4 SHT 4 OF 5 | TITLE SCHEMATIC LOGIBLOC FOR 2225 CONTROL BOARD |
| | | | | | 210-6225 / E / 6225 / 1 |
| | | | | | WANG PART NUMBER / SIZE / DRAWING NUMBER / REV |

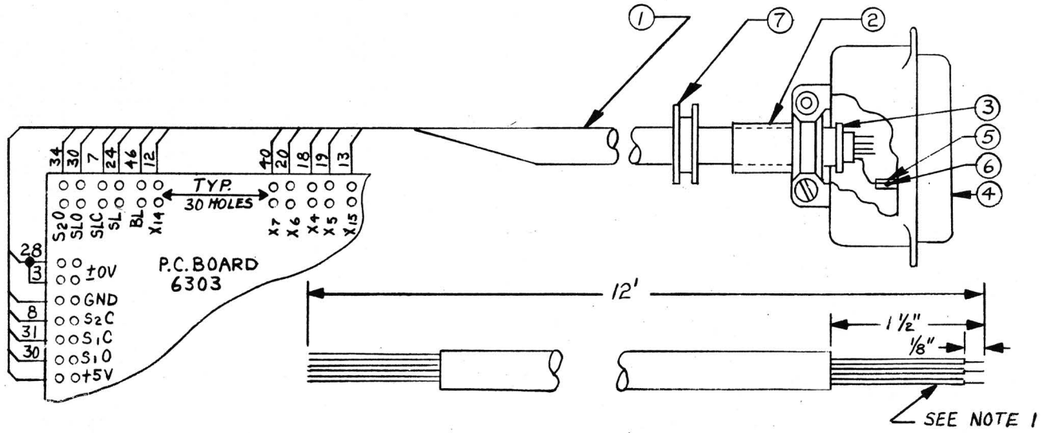
DO NOT SCALE




| SIGNAL | WIRE NO. | PIN NO. |
|---|---|---|
| +15V | 1 | 1 |
| X | 2 | 2 |
| ±0V | 3 | 3 |
| X | 4 | 4 |
| HC | 5 | 5 |
| SLO | 6 | 6 |
| SLC | 7 | 7 |
| $S_2C$ | 8 | 8 |
| RC | 9 | 9 |
| RO | 10 | 10 |
| X12 | 11 | 11 |
| X14 | 12 | 12 |
| X15 | 13 | 13 |
| X0 | 14 | 14 |
| X1 | 15 | 15 |
| X2 | 16 | 16 |
| X3 | 17 | 17 |
| X4 | 18 | 18 |
| X5 | 19 | 19 |
| X6 | 20 | 20 |
| Y4 | 21 | 21 |
| Y5 | 22 | 22 |
| Y6 | 23 | 23 |
| SL | 24 | 24 |
| CHAS. | 25 | 25 |

| SIGNAL | WIRE NO. | PIN NO. |
|---|---|---|
| +15V | 26 | 26 |
| X | 27 | 27 |
| ±0V | 28 | 28 |
| X | 29 | 29 |
| $S_1O$ | 30 | 30 |
| $S_1C$ | 31 | 31 |
| X | 32 | 32 |
| HO | 33 | 33 |
| $S_2O$ | 34 | 34 |
| X8 | 35 | 35 |
| X9 | 36 | 36 |
| X10 | 37 | 37 |
| X11 | 38 | 38 |
| X13 | 39 | 39 |
| X7 | 40 | 40 |
| Y1 | 41 | 41 |
| Y3 | 42 | 42 |
| Y2 | 43 | 43 |
| Y0 | 44 | 44 |
| Y7 | 45 | 45 |
| BL | 46 | 46 |
| ARM | 47 | 47 |
| N.O. | 48 | 48 |
| X | X | 49 |
| CHAS. | 50 | 50 |




NOTE: 1-STRIP BACK ¼" & TIN ⅛".

| WANG PART NO. | ITEM | QTY. | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| 380-1001 | | 75 | SIL. DIODE | | 4B |
| 325-2300 | | 75 | MICRO SWITCH | | 11SM804 |
| 325-2305 | | 5 | MICRO SWITCH | | 11SM1 |
| 370-0002 | | 2 | LAMP | | 1762 CLEAR |
| 654-1205 | 7 | 1 | GROMMET | | 1/2 I.D. – 3/4 HOLE |
| | | | | | |
| 605-0002 | 5 | 49 | SLEEVE | | #15 TUBING - 3/8 LONG |
| 350-2027 | 4 | 1 | CONNECTOR | | 57-30500 |
| 654-1208 | 3 | 1 | STRAIN RELIEF | | WALKER #6 |
| 605-4103 | 2 | 1 | BUSHING | | #3 |
| 420-0005 | 1 | 12' | CABLE | | 50 CONDUCTOR-26 GUAGE |

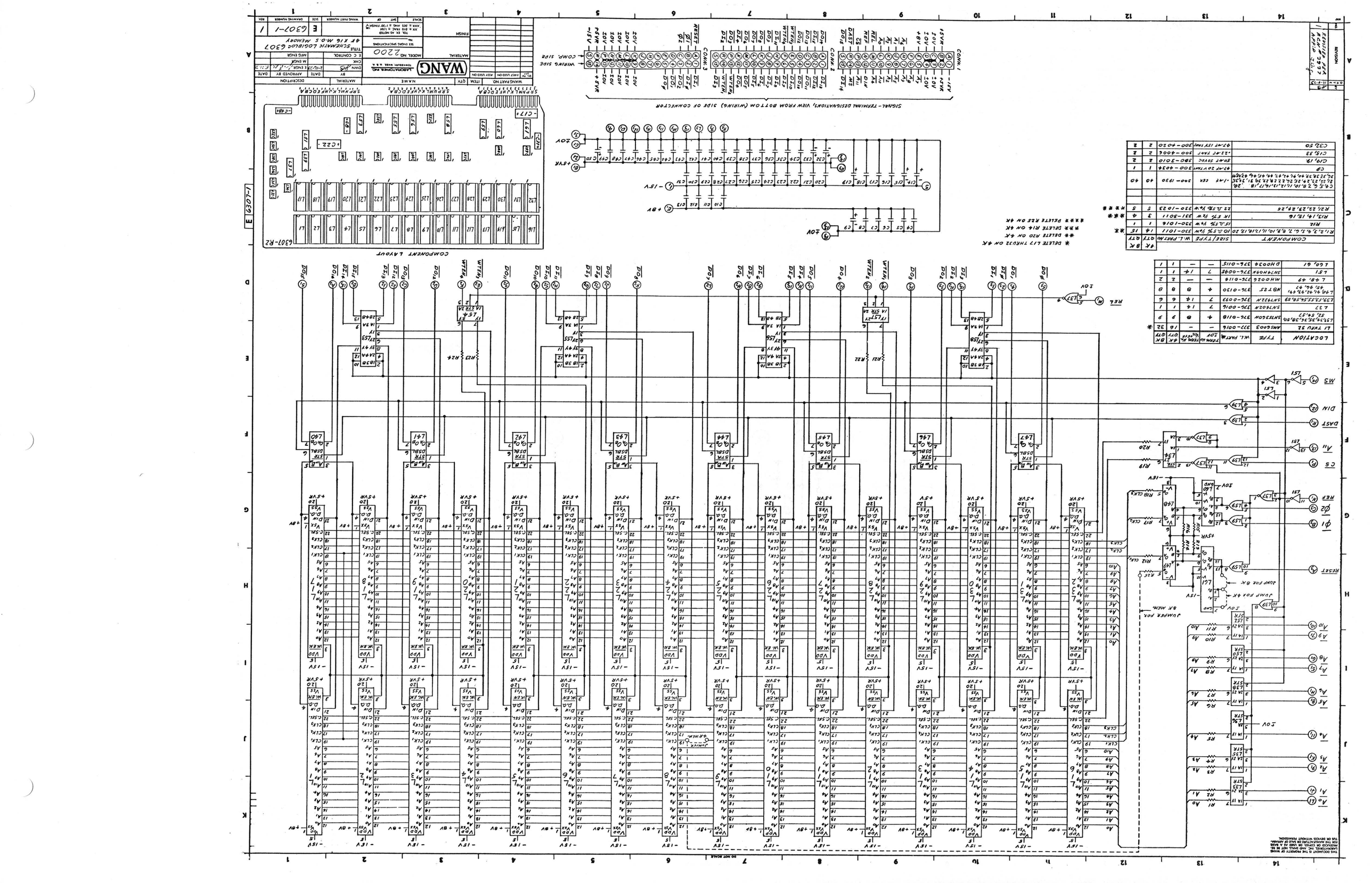
| NO. | REVISION | BY | DATE |
|---|---|---|---|
| | | | |

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

| IDENT | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|
| | | | | |

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

| | | | |
|---|---|---|---|
| DR CK | DATE 2-15-73 | | |
| CHK | DATE | | |
| APPD | DATE 6-5-73 | | |
| MODEL No. 2200 | W.O. No. | SCALE | SHEET OF |
| TITLE SCHEMATIC LOGIBLOC 2200 KEYBOARD #6303 | | | |
| | 0 | C | 6303-1 |
| PART NUMBER | REV | SIZE | DRAWING NUMBER |


WANG
MODEL NO 2200
SCHEMATIC LOGIC 6307
4K X16 M.O.S. MEMORY
E 6307-1 1
6307-R2
COMPONENT LAYOUT
SIGNAL - TERMINAL DESIGNATIONS, VIEW FROM BOTTOM SIDE OF CONNECTOR (WIRING) SIDE OF CONNECTOR
WIRING SIDE
COMP. SIDE
COMP 1
COMP 2
COMP 3
COMP 4
* DELETE L17 THRU 32 ON 4K
** DELETE R20 ON 4K
*** DELETE R14 ON 4K
**** DELETE R25 ON 4K
COMPONENT | SIZE/TYPE | W.I. PART NO | QTY | R/Y | 4K | BK
R1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20 | 10 K 5% 1/4W | 130-1011 | 14 | 1S | | **
R12,15,25 | 1K 5% 1/4W | 130-1016 | 4 | 1 | | ***
R11,22,23,24,26 | 22 K 5% 1/4W | 130-1023 | 5 | 3 | | ****
C1,5,6,7,8,10,11,12,13,14,15,16,17,18,19,20 | .2uf | 200-1930 | 40 | 40 | |
21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50 | .47uf 20V TANT | 200-6036 | 1 | 1 | |
C2,3,4 | .22uf TANT | 200-6006 | 2 | 2 | |
C9,20 | .22uf 50VDC | 280-3010 | 2 | 2 | |
C26,27 | .47uf 15V TANT | 200-4020 | 2 | 2 | |
LOCATION | TYPE | WL. PART# | PCB# | 4K | BK
LI THRU 32 | AMS6003 | 337-0016 | — | 16 | 32 *
L37 | SN74S20N | 376-0018 | + | 8 | 9 | 9
L37 | SN7402N | 376-0016 | 7 | 14 | 1 | 1
L39,51,52,53,54,55,56,57 | SN7493N | 376-0093 | 7 | 14 | 6 | 6
L46,47,48,49,50,58,59,60 | MB7725 | 376-0130 | + | 8 | 8 | 8
L61 | MH0026 | 376-0114 | — | — | 2 | 2
L62 | SN74H09N | 376-0048 | 7 | 14 | 1 | 1
L63,64 | D4003A | 376-0115 | — | 7 | 1 | 1

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NO PRINT SCALE

HOLE LEGEND

| DRILLED OR PUNCHED HOLE TOLERANCES | HOLE DIA. | TOL. |
|---|---|---|
| | .0135 to .125 | +.002 -.000 |
| | .126 to .350 | +.003 -.000 |
| | .351 to .500 | +.004 -.000 |

| IDENT. | DESCRIPTION | QTY. |
|---|---|---|
| A | | |

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

CONN.1

| | | |
|---|---|---|
| R19 | A1 | R8 |
| +5V | B2 | R9 |
| ±0V | C3 | ST3-3 |
| -12V | D4 | A4 |
| A12 | E5 | A7 |
| A15 | F6 | A6 |
| A6 | H7 | A9 |
| A1 | J8 | A5 |
| A3 | K9 | A8 |
| A0 | L10 | A10 |
| A14 | M11 | A2 |
| A13 | N12 | A5 |
| A11 | P13 | A13 |
| A7 | R14 | MS4 |
| DO15 | S15 | A10 |

CONN.2

| | | |
|---|---|---|
| DO14 | A1 | A3 |
| A0 | B2 | A2 |
| DO13 | C3 | DO11 |
| DO12 | D4 | DO10 |
| WTEN3 | E5 | A1 |
| WTEN4 | F6 | CL8 |
| CL2 | H7 | CH8 |
| DO9 | J8 | CL4 |
| DO8 | K9 | CH1 |
| DO7 | L10 | CL1 |
| DO6 | M11 | DO5 |
| CH4 | N12 | DO4 |
| DO3 | P13 | WTEN2 |
| WTEN1 | R14 | CH2 |
| A4 | S15 | TFF |

CONN.3

| | | |
|---|---|---|
| Q1 | A1 | DO2 |
| Q2 | B2 | DO1 |
| RUN/STEP | C3 | DO0 |
| MS3 | D4 | MS2 |
| MS1 | E5 | RESET |
| MERO | F6 | MOT |
| UDC | H7 | AH |
| A9 | J8 | A |
| B | K9 | REF |
| MTF | L10 | ST1-3 |
| MXS | M11 | MER |
| REL | N12 | CS |
| CK | P13 | ±0V |
| DAST | R14 | +5V |
| AT1 | S15 | DIN |

COMP. SIDE — WIRING SIDE

| TERMINAL Vcc +5V | TERMINAL ±0V | LOCATION | TYPE | W.L. PART NO. | QTY. |
|---|---|---|---|---|---|
| 14 | 7 | L1, 52, 53, 54 | SN7432N | 376-0093 | 4 |
| 12 | | L2 THRU 7 | INTEL 1702 | 377-0009 | 6 |
| 14 | 7 | L8 | SN7430N | 376-0031 | 1 |
| 13 | 5 | L9, 10, 11, 30 | SN7476N | 376-0007 | 4 |
| 14 | 7 | L12, 40 | SN7408N | 376-0081 | 2 |
| 14 | 7 | L13, 20, 22, 24, 27 | SN7404N | 376-0010 | 5 |
| 16 | 8 | L14, 15, 44, 45 | SN74175N | 376-0119 | 4 |
| 16 | 8 | L16, 29 | 9321 | 376-0096 | 2 |
| 16 | 8 | L17, 18, 25, 26, 28, 38 | SN7495N | 376-0097 | 6 |
| 10 | 5 | L19, 21 | SN7493N | 376-0011 | 2 |
| 14 | 7 | L23 | SN7410N | 376-0003 | 1 |
| 16 | 8 | L31, 42, 43, 46-50 | SN7415TN | 376-0082 | 8 |
| 16 | 8 | L32, 33 | SN7416N | 376-0124 | 2 |
| 16 | 8 | L34 THRU 37 | SN74153N | 376-0048 | 4 |
| 14 | 7 | L39, 41, 51 | SN7400N | 376-0002 | 3 |

| COMPONENT | SIZE/TYPE | W.L. PART NO. | QTY. |
|---|---|---|---|
| R1 | 2.7K 1/4W | 330-3027 | 1 |
| R2,3,5,9,12-27,33 | 1K 1/4W | 330-3010 | 21 |
| R4,7,11 | 10K 1/4W | 330-4010 | 3 |
| R6 | 470Ω 1/4W | 330-2047 | 1 |
| R9 | 3.3K 1/4W | 330-3033 | 1 |
| R10,28 | 4.7K 1/4W | 330-3047 | 2 |
| R29 | 180Ω 1/4W | 330-2018 | 1 |
| R30 | 1.8K 1/4W | 330-3018 | 1 |
| R31,32 | 220Ω 1/4W | 330-2022 | 2 |
| C1,19-20 | 15μF,20V T | 300-4022 | 3 |
| C2 | .001μF CER. | 300-1906 | 1 |
| C3-18 | .05 μF CER. | 300-1900 | 16 |
| D | EM403 | 380-4000 | 2 |
| Q1 | 2N3014 | 375-0017 | 1 |
| Q2 | GT545 | 375-1016 | 1 |
| Q3 | 2N5189 | 375-1021 | 1 |
| SOCKETS | 24 PIN | 376-9003 | 6 |
| XTAL 1 | 10 MC. OSC. | 321-0008 | 1 |
| C23 | 47PF CER. | 300-1047 | 1 |

COMPONENT LAYOUT

| LOCATION | TYPE | W.L. PART NO. |
|---|---|---|
| L2 | INTEL 1702 | 377-0147 |
| L3 | INTEL 1702 | 377-0148 |
| L4 | INTEL 1702 | 377-0146 |
| L5 | INTEL 1702 | 377-0150 |
| L6 | INTEL 1702 | 377-0151 |
| L7 | INTEL 1702 | 377-0149 |

| REVISION | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| A | REL PER ECN 3396 | 2-2-73 | | |
| 1 | APPD: T.N.H. | | | |

| WANG PART NO. | ITEM | QTY. | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| DO NOT SCALE | FIRST USED ON | ASSY USED ON | WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A. | BY | DATE |
| | | | | DWN ZK | 2-7-73 |
| | | | | CHK | |
| | | | | E. C. CONTROL | |
| | | | MATERIAL | MODEL NO. 2200 | |
| | | | FINISH | SEE ENGRG SPECIFICATIONS No. | |
| | | | | TOL. FR. AS NOTED XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1°30' FINISH 125 | |
| | | | | SCALE | SHT OF |

APPROVED BY: DATE
ENGR: T. Tinos 4-1-73
MFG ENGR
MFG ENGR

TITLE: SCHEMATIC LOGIBLOC #6308 MEMORY CONTROL

E 6308-1 1

WANG PART NUMBER | SIZE | DRAWING NUMBER | LTR

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DO NOT SCALE

HOLE LEGEND

| DRILLED OR PUNCHED HOLE TOLERANCES | HOLE DIA. | TOL. |
|---|---|---|
| | .0135 to .125 | ± .002 |
| | .126 to .250 | ± .003 |
| | .251 to .500 | ± .004 |

| IDENT | DESCRIPTION | QTY. |
|---|---|---|
| A | | |

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

CONN.1

| | | |
|---|---|---|
| R19 | A1 | R8 |
| +5V | B2 | R9 |
| ±0V | C3 | ST3-3 |
| | D4 | A4 |
| A12 | E5 | A7 |
| A15 | F6 | A6 |
| A4 | H7 | A3 |
| A1 | J8 | A5 |
| A3 | K9 | A2 |
| A0 | L10 | A10 |
| A14 | M11 | A9 |
| A8 | N12 | A5 |
| A11 | P13 | A13 |
| A7 | R14 | MS4 |
| DO15 | S15 | A10 |

CONN.2

| | | |
|---|---|---|
| DO14 | A1 | A3 |
| A0 | B2 | A2 |
| DO13 | C3 | DO11 |
| DO12 | D4 | DO10 |
| WTEN3 | E5 | A1 |
| WTEN4 | F6 | CL8 |
| CL2 | H7 | CH8 |
| DO9 | J8 | CL4 |
| DO8 | K9 | CH1 |
| DO7 | L10 | CL1 |
| DO6 | M11 | DO5 |
| CH4 | N12 | DO4 |
| DO3 | P13 | WTEN2 |
| WTEN1 | R14 | CH2 |
| A6 | S15 | TFF |

CONN.3

| | | |
|---|---|---|
| Q1 | A1 | DO2 |
| Q2 | B2 | DO1 |
| RUN/STEP | C3 | DO0 |
| MS2 | D4 | MS3 |
| MS1 | E5 | RESET |
| MERO | F6 | MOT |
| UDC | H7 | A11 |
| A9 | J8 | A |
| B | K9 | REF |
| MTF | L10 | ST1-3 |
| MXS | M11 | MER |
| REL | N12 | CS |
| CK | P13 | ±0V |
| DAST | R14 | +5V |
| AT1 | S15 | DIN |

COMP. SIDE — WIRING SIDE

| TERM.NO. Vcc +5V | TERM.NO. ±0V | LOCATION | TYPE | W.L.PART NO. | QTY. |
|---|---|---|---|---|---|
| 14 | 7 | L1 | SN7430N | 376-0031 | 1 |
| 13 | 5 | L2,3,4,24 | SN7476N | 376-0007 | 4 |
| 14 | 7 | L5,42,43,44 | SN7432N | 376-0093 | 4 |
| 10 | 5 | L6,17 | SN7493N | 376-0011 | 2 |
| 14 | 7 | L7,9,11,18,21 | SN7404N | 376-0010 | 5 |
| 14 | 7 | L8 | SN7410N | 376-0003 | 1 |
| 14 | 7 | L10,34 | SN7408N | 376-0081 | 2 |
| 16 | 8 | L12,13,38,39 | SN74175N | 376-0119 | 4 |
| 16 | 8 | L14,23 | 9321 | 376-0096 | 2 |
| 16 | 8 | L15,16,19,20,22,32 | SN74195N | 376-0097 | 6 |
| 16 | 8 | L25,36,37,40 | SN74157N | 376-0082 | 4 |
| 16 | 8 | L26,27 | SN74161N | 376-0124 | 2 |
| 16 | 8 | L28,29,30,31 | SN74153N | 376-0048 | 4 |
| 14 | 7 | L33,35,41 | SN7400N | 376-0002 | 3 |

| COMPONENT | SIZE/TYPE | W.L. PART NO. | QTY. |
|---|---|---|---|
| R1 | 2.7K 1/4W | 330-3027 | 1 |
| R3,33 | 1K 1/4W | 330-3010 | 2 |
| | | | |
| | | | |
| | | | |
| R28 | 4.7K 1/4W | 330-3047 | 1 |
| R29 | 180Ω 1/4W | 330-2018 | 1 |
| R30 | 1.8K 1/4W | 330-3018 | 1 |
| R31,32 | 220Ω 1/4W | 330-2022 | 2 |
| C19-20 | 154pf, 20VT | 300-4022 | 2 |
| C23 | 47pf CER | 300-1047 | 1 |
| C3-18 | .054f CER. | 300-1900 | 15 |
| | | | |
| XTAL 1 | 10MC OSC. | 321-0008 | 1 |
| J1 | 16 PIN CONN. | 376-9002 | 1 |

COMPONENT LAYOUT

| REVISION | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| A | RT PER ECN 3936 | 5-3-73 | | 10-5-74 |
| 1 | REVISED FOG ADDED L9 PART. APP'D: | 6-5-74 | | |
| 2 | DELETED L31 PER ECN 4032 ADDED L21 APP'D: | 8-5-74 | | |

| WANG PART NO | ITEM | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| Dr. Tr. | FIRST USED ON | ASSY USED ON | | | |
| | | | WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A. | DWN DK 9-13-73 | ENGR 9-26-73 |
| | | | MODEL NO. 2200 | CHK | M ENGR |
| | | | SEE ENGRG SPECIFICATIONS No. | E C CONTROL | MFG ENGR |
| | | | TOL. EX. AS NOTED .XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1°30' FINISH | TITLE SCHEMATIC LOGIBLOC #6308-1 MEMORY CONTROL | |
| | | | SCALE SHT OF | WANG PART NUMBER E 6308-2 | SIZE DRAWING NUMBER REV. 3 |

E 6308-2

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DO NOT SCALE

HOLE LEGEND

| | HOLE DIA. | TOL. |
|---|---|---|
| DRILLED OR PUNCHED HOLE TOLERANCES: | .0135 to .125 | ± .005 |
| | .126 to .250 | ± .007 |
| | .251 to .500 | ± .009 |

| IDENT. | DESCRIPTION | QTY. |
|---|---|---|
| A | - | - |

CONN.1

| | | |
|---|---|---|
| +5VR | A | A7 |
| ±0V | B | A8 |
| | C | A9 |
| | D | A5 |
| A12 | E | A2 |
| A15 | F | A10 |
| A6 | H | A4 |
| A1 | J | WW |
| A3 | K | A13 |
| A0 | L | CTA |
| A14 | M | TRAB |
| TPI | N | |
| TMP | P | |
| CG | R | |
| TIP | S | |

CONN.2

| | | |
|---|---|---|
| AT3 | A | AT2 |
| D1 | B | AT4 |
| SB | C | D8 |
| MERO | D | D4 |
| SR | E | UDC |
| R14 | F | DC |
| R6 | H | IC |
| R10 | J | D2 |
| | K | AT1 |
| TRP4 | L | R2 |
| R3 | M | TRP8 |
| R11 | N | R0 |
| R7 | P | TRP1 |
| R15 | R | R8 |
| R12 | S | R4 |

CONN.3

| | | |
|---|---|---|
| TRP2 | A | R1 |
| R5 | B | R9 |
| ID4 | C | R13 |
| ID1 | D | ID2 |
| IA8 | E | MER |
| RTT | F | BRL |
| BRH | H | IC8 |
| IC4 | J | A11 |
| IC2 | K | IC1 |
| IB4 | L | IB2 |
| IB1 | M | IA4 |
| IA2 | N | IA1 |
| | P | ±0V |
| | R | +5VR |
| IB8 | S | ID8 |

COMP. SIDE — WIRING SIDE

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

| CONDITION POINTS | 4K | 8K | 12K | 16K | 20K | 24K | 28K | 32K |
|---|---|---|---|---|---|---|---|---|
| L8-5 | ±0V | ±0V | ±0V | ±0V | ±0V | ±0V | ±0V | ±0V |
| L8-11 | +4VR | ±0V | +4VR | ±0V | +4VR | ±0V | +4VR | ±0V |
| L7-5 | +4VR | +4VR | ±0V | ±0V | +4VR | +4VR | ±0V | ±0V |
| L7-11 | +4VR | +4VR | +4VR | +4VR | ±0V | ±0V | ±0V | ±0V |

COMPONENT LAYOUT 6309

SRPNMLKJHFEDCBA 3333333333333333

SRPNMLKJHFEDCBA 2222222222222222

SRPNMLKJHFEDCBA 1111111111111111

SEE CONDITION & POINTS CHART FOR WIRING

| I.C. LOCATION | TYPE | W.L. NO. | TERM FOR ±0V | TERM FOR VCC +5VR | QTY. |
|---|---|---|---|---|---|
| L1,14,24,35,46 | SN7404N | 376-0010 | 7 | 14 | 5 |
| L2 | SN7400N | 376-0002 | 7 | 14 | 1 |
| L3 | SN7432N | 376-0093 | 7 | 14 | 1 |
| L4,5,15,25,36,41 | SN74193N | 376-0053 | 8 | 16 | 6 |
| L6,10,16,20,26,31,37,42 | SN7409N | 376-0113 | 8 | 16 | 8 |
| L7,8,11,12,17,18,21,22, 27,28,32,33,38,39,43,44 | SN74153N | 376-0048 | 8 | 16 | 16 |
| L9,19,29,40 | SN74175N | 376-0119 | 8 | 16 | 4 |
| L13,23,34,45 | SN74161N | 376-0124 | 8 | 16 | 4 |
| L30 | SN7407N | 376-0056 | 7 | 14 | 1 |

| COMPONENT | SIZE, TYPE | W.L. NO. | QTY. |
|---|---|---|---|
| R1,2,3,4,5,6,7,8,9,10,11, 12,13,14,15,16,22,23,24, 25,26,27,28,29,30,31, 32,33,34,35,36,37 | 47Ω ⅛ W | 330-2047 | 32 |
| R17,18,19,20,21,43 | 4.7K ⅛ W | 330-3047 | 6 |
| R38,39,40,41,42 | 1K ⅛ W | 330-3010 | 5 |
| C1,2,3,4,5,6,7 | .01μF 25V | 300-1503 | 7 |
| C8,9 | 15μF 20V TANT. | 300-4022 | 2 |

| REVISION | DESCRIPTION | DATE | APPROVED |
|---|---|---|---|
| A | CHANGED L30 TO 7407 | 6-11-71 | |

| WANG PART NO | ITEM | QTY | NAME |
|---|---|---|---|
| | | | WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A. |
| MATERIAL | | | MODEL NO. 2200 |
| FINISH | | | SEE ENGRG SPECIFICATIONS No. |
| | | | 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. | 5-11-71 | E ENGR | 6-11-71 |
| CHK | | M ENGR | |
| E C CONTROL | | MFG ENGR | |

TITLE: BLOCK CIRCUIT DIAGRAM #6309 REGISTERS

SCALE — SHT — OF

WANG PART NUMBER: E 6309-1 — SIZE — DRAWING NUMBER — REV. 1

E 6309-1

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DO NOT SCALE

HOLE LEGEND

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

| IDENT. | DESCRIPTION | QTY. |
|---|---|---|
| A | | |

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

CONN.1

| | | | |
|---|---|---|---|
| b-1 | A 1 | 2 | b-4 |
| +5VR | B 2 | 3 | |
| ±0V | C 3 | 4 | |
| A | D 4 | 5 | $A_{12}$ |
| $A_{12}$ | E 5 | 6 | $CL_1$ |
| $A_{15}$ | F 6 | 7 | $CH_1$ |
| $CL_2$ | H 7 | 8 | $b_2$ |
| $A_1$ | J 8 | 9 | $CH_2$ |
| $A_3$ | K 9 | 10 | $A_2$ |
| $A_0$ | L 10 | 11 | $CL_4$ |
| $A_{14}$ | M 11 | 12 | $CH_4$ |
| $CL_8$ | N 12 | 13 | $\overline{WW}$ |
| $\overline{FMP}$ | P 13 | 14 | $A_{13}$ |
| $\overline{CG}$ | R 14 | 15 | CTA |
| $\overline{TIP}$ | S 15 | 16 | $\overline{TRAP}$ |

CONN.2

| | | | |
|---|---|---|---|
| $CH_8$ | A 1 | 2 | $BI_1$ |
| $\overline{D_1}$ | B 2 | 3 | $BI_4$ |
| $BI_2$ | C 3 | 4 | $\overline{D_8}$ |
| $\overline{B}$ | D 4 | 5 | $\overline{D_4}$ |
| $\overline{SR}$ | E 5 | 6 | $BI_8$ |
| $R_{14}$ | F 6 | 7 | $\overline{DC}$ |
| $R_6$ | H 7 | 8 | $\overline{IC}$ |
| $R_{10}$ | J 8 | 9 | $\overline{D_2}$ |
| $R_2$ | K 9 | 10 | |
| PCG | L 10 | 11 | $\overline{CI_0}$ |
| $R_3$ | M 11 | 12 | $R_{11}$ |
| $\overline{TPI}$ | N 12 | 13 | $R_0$ |
| $R_7$ | P 13 | 14 | $\overline{MTF}$ |
| $R_{15}$ | R 14 | 15 | $\overline{MOT}$ |
| $R_{12}$ | S 15 | 16 | $R_4$ |

CONN.3

| | | | |
|---|---|---|---|
| $SP_1$ | A 1 | 2 | $R_1$ |
| $R_5$ | B 2 | 3 | $\overline{MER}$ |
| $R_{19}$ | C 3 | 4 | $R_{13}$ |
| | D 4 | 5 | |
| $R_{17}$ | E 5 | 6 | $\overline{MXS}$ |
| | F 6 | 7 | $\overline{BRL}$ |
| $\overline{BRH}$ | H 7 | 8 | |
| $\overline{STIT}$ | J 8 | 9 | |
| | K 9 | 10 | $R_{16}$ |
| | L 10 | 11 | $\overline{ERG}$ |
| $R_{18}$ | M 11 | 12 | $\overline{SB}$ |
| STI-0 | N 12 | 13 | ±0V |
| | P 13 | 14 | +5VR |
| | R 14 | 15 | |
| | S 15 | 16 | |

COMP. SIDE — WIRING SIDE

| I.C. LOCATION | TYPE | W.L. NO. | TERM FOR ±0V | TERM FOR VCC +5VR | QTY. |
|---|---|---|---|---|---|
| L1 | F9321 | 376-0096 | 8 | 16 | 1 |
| L2,3,23,39 | SN7413N | 376-0048 | 7 | 14 | 4 |
| L4,7,28,44 | SN7408N | 376-0081 | 7 | 14 | 4 |
| L5 | SN7402N | 376-0016 | 7 | 14 | 1 |
| L6 | SN74184N | 376-0122 | 8 | 16 | 1 |
| L8,17,40 | SN74157N | 376-0082 | 8 | 16 | 3 |
| L9 | SN74185AN | 376-0123 | 8 | 16 | 1 |
| L10,11,14 | SN7400N | 376-0002 | 7 | 14 | 3 |
| L12,19,31,42,45 | SN7404N | 376-0010 | 7 | 14 | 5 |
| L13 | SN7407N | 376-0056 | 7 | 14 | 1 |
| L15,22,30,32 | SN7432N | 376-0093 | 7 | 14 | 4 |
| L16 | SN7423N | 376-0057 | 7 | 14 | 1 |
| L18 | SN7410N | 376-0003 | 7 | 14 | 1 |
| L20 | SN74181N | 376-0099 | 12 | 24 | 1 |
| L20 PIN SKT. | | 376-9003 | | | 1 |
| L21 | F9935 | 376-0025 | 7 | 14 | 1 |
| L23,24,25,26 | F9338 | 376-0100 | 8 | 16 | 4 |
| L29 | SN7420N | 376-0004 | 7 | 14 | 1 |
| L33 | SN74155N | 376-0049 | 8 | 16 | 1 |
| L34,41 | SN7442N | 376-0008 | 8 | 16 | 2 |
| L35,36,37,38 | SN74151N | 376-0047 | 8 | 16 | 4 |
| L43 | SN7451N | 376-0012 | 7 | 14 | 1 |
| L46 | SN7476N | 376-0007 | 13 | 5 | 1 |

| COMPONENT | SIZE, TYPE | W.L. NO. | QTY. |
|---|---|---|---|
| R1,2,3,5,6,7,11,12,13,14,15,16,17,18,19,20,21 | 1K ¼W | 330-3010 | 17 |
| R4 | 4.7K ¼W | 330-3047 | 1 |
| R8,9,10 | 220Ω ¼W | 330-2022 | 3 |
| D | 30V SIL. | 380-1001 | 30 |
| C1,2,3,4,5,6,7,8,9,10 | .05μf 12V | 300-1900 | 10 |
| C11,12 | 15μf 20V TANT. | 300-4032 | 2 |

COMPONENT LAYOUT 6310

6310 R0

SRPNMLKJHFEDCBA 3333333333333 33

SRPNMLKJHFEDCBA 2222222222222

SRPNMLKJHFEDCBA

| WANG PART NO | ITEM | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| QTY. PER | FIRST USED ON | ASSY USED ON | | | |

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

| | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| MATERIAL | DWN F.S.S. | 3-7-72 | E ENGR | |
| MODEL NO 2200 | CHK | | M ENGR | |
| SEE ENGRG SPECIFICATIONS No. | E C CONTROL | | MFG ENGR | |
| FINISH | TOL. EX. AS NOTED XX ± .010 FRAC. ± 1/64 XXX ± .005 ANG. ± 1°30' FINISH | | TITLE SCHEMATIC LOGIBLOC # 6310 ALU | |
| SCALE | SHT OF | | WANG PART NUMBER E 6310-1 | SIZE 0 DRAWING NUMBER REV. |

E 6310-1

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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 |
| | | ± .125 |

| IDENT | DESCRIPTION | QTY |
|---|---|---|
| A | | |

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

CONN.1

| | | | |
|---|---|---|---|
| $b_1$ | A1 | 1 | b-4 |
| +5VR | B1 | 2 | ST3-3 |
| ±0V | C1 | 3 | ST1-3 |
| $\overline{AB_1}$ | D1 | 4 | $A_7$ |
| $\overline{AB_4}$ | E1 | 5 | $\overline{AB_2}$ |
| $A_{10}$ | F1 | 6 | $\overline{AB_3}$ |
| $A_6$ | H1 | 7 | b-2 |
| $A_{11}$ | J1 | 8 | $A_5$ |
| $A_9$ | K1 | 9 | PNC |
| $\overline{OB_5}$ | L1 | 10 | PNO |
| $\overline{AB_5}$ | M1 | 11 | $A_4$ |
| $\overline{EB_9}$ | N1 | 12 | $\overline{RTT}$ |
| $BI_9$ | P1 | 13 | |
| $\overline{CG}$ | R1 | 14 | WOLF TRAP |
| $A_8$ | S1 | 15 | $\overline{TRAP}$ |

CONN.2

| | | | |
|---|---|---|---|
| $\overline{AT_3}$ | J2 | 1 | $\overline{AT_2}$ |
| $\overline{DI}$ | B2 | 2 | $\overline{AT_4}$ |
| $\overline{EB_8}$ | C2 | 3 | $\overline{D_3}$ |
| MERO | D2 | 4 | $\overline{D_4}$ |
| $\overline{EB_4}$ | E2 | 5 | $BI_2$ |
| $R_{14}$ | F2 | 6 | $BI_1$ |
| $R_4$ | H2 | 7 | $\overline{EB_4}$ |
| $\overline{EB_1}$ | J2 | 8 | $\overline{D_2}$ |
| $\overline{EB_7}$ | K2 | 9 | $\overline{EB_2}$ |
| PCG | L2 | 10 | $\overline{CT_0}$ |
| $\overline{EB_5}$ | M2 | 11 | PRMS |
| $R_3$ | N2 | 12 | $R_0$ |
| $R_7$ | P2 | 13 | $\overline{EB_3}$ |
| $R_2$ | R2 | 14 | $\overline{AT_1}$ |
| CPB | S2 | 15 | $BI_4$ |

CONN.3

| | | | |
|---|---|---|---|
| $\overline{OB_1}$ | A3 | 1 | $R_1$ |
| $\overline{OB_2}$ | B3 | 2 | MER |
| $\overline{OB_3}$ | C3 | 3 | HALT |
| $\overline{OB_4}$ | D3 | 4 | $\overline{DI_3}$ |
| $\overline{OB_8}$ | E3 | 5 | $\overline{CBS}$ |
| $\overline{OB_7}$ | F3 | 6 | $R_5$ |
| $\overline{OB_6}$ | H3 | 7 | $\overline{OB_5}$ |
| $\overline{AB_5}$ | J3 | 8 | STIT |
| $\overline{RB}$ | K3 | 9 | ERG |
| $\overline{AB_6}$ | L3 | 10 | $\overline{DI_2}$ |
| $\overline{AB_7}$ | M3 | 11 | $\overline{DI_1}$ |
| ST1-0 | N3 | 12 | ±0V |
| $R_6$ | P3 | 13 | +5VR |
| $\overline{IBS}$ | S3 | 15 | $\overline{AB_8}$ |

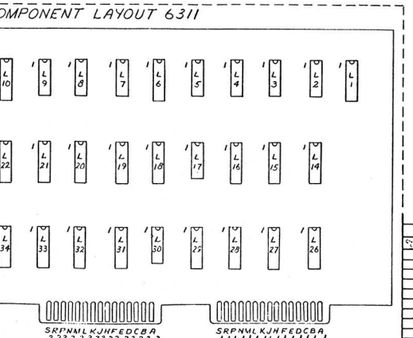
COMP. SIDE — WIRING SIDE

| REVISION | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| 1 FIRST RELEASE | | | | |
| 2 REVISED PER ECO 3835 | | | | |
| 3 REVISED PER ECO 3934 | | | | |
| 4 REVISED PER ECO 4007 | | | | |
| 5 REVISED PER ECO 4043 | | | | |

| I.C. LOCATION | TYPE | W.L. NO. | TERM FOR ±0V | TERM FOR VCC +5VR | QTY. |
|---|---|---|---|---|---|
| L1,10,11,13 | SN74123N | 376-0080 | 8 | 16 | 4 |
| L2,7,8,36 | SN7432N | 376-0093 | 7 | 14 | 4 |
| L3,17,23 | SN7404N | 376-0010 | 7 | 14 | 3 |
| L4 | SN7400N | 376-0002 | 7 | 14 | 1 |
| L5 | F9935 | 376-0025 | 7 | 14 | 1 |
| L6,18,19,20 | SN7476N | 376-0007 | 13 | 5 | 4 |
| L9 | SN7406N | 376-0055 | 7 | 14 | 1 |
| L12,30 | SN7408N | 376-0081 | 7 | 14 | 2 |
| L14,15,16,24A,25,31 | SN74195N | 376-0097 | 8 | 16 | 6 |
| L21 | F9321 | 376-0096 | 8 | 16 | 1 |
| L22 | SN7442N | 376-0008 | 8 | 16 | 1 |
| L24 | SN7402N | 376-0016 | 7 | 14 | 1 |
| L26,27,28,29 | SN74151N | 376-0047 | 8 | 16 | 4 |
| L32,33 | SN74157N | 376-0082 | 8 | 16 | 2 |
| L34,35 | SN74175N | 376-0119 | 8 | 16 | 2 |
| L37 | SN7437N | 376-0068 | 7 | 14 | 1 |

| COMPONENT | SIZE, TYPE | W.L. NO. | QTY. |
|---|---|---|---|
| R1,2,3,4,5,6,7,8,10,20,21,22,23,24,27,36 | 1K ¼W | 330-3010 | 16 |
| R9,13,16,17,32 | 2.7K ¼W | 330-3027 | 5 |
| R11,17,18,30,31 | 10K ¼W | 330-4010 | 5 |
| R12,14,15 | 33K ¼W | 330-9033 | 3 |
| R26,25,33,34 | 4.7K ¼W | 330-3047 | 4 |
| R35 | 470Ω ½W | 330-2049 | 1 |
| C1,5 | 390μμF CER | 300-1390 | 2 |
| C2,3,4 | 470μμF CER | 300-1470 | 3 |
| C6,10 | 82μμF CER | 300-1082 | 2 |
| C7,8 | 820μμF CER | 300-1820 | 2 |
| C9 | 220μμF CER | 300-1220 | 1 |
| C11,12,13,14,15,16,17,18,19,20,21 | .05μF 12VCER | 300-1900 | 11 |
| C22,23 | 15μF 15V TANT. | 300-4022 | 2 |
| C24 | .002μF 200V | 300-1913 | 1 |
| C25 | .01μF CER. | 300-1903 | 1 |

COMPONENT LAYOUT 6311




| WANG PART NO. | ITEM | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| CUST. FIRST USED ON | ASSY USED ON | | WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A. | | |
| | | | MATERIAL | MODEL NO. 2200 | TITLE BLOCK CIRCUIT DIAGRAM * 6311 INPUT/OUTPUT CONTROL |
| | | | FINISH | SEE ENGRG SPECIFICATIONS No. | |
| | | | | TOL. EX. AS NOTED .XX ± .010 FRAC ± 1/64 .XXX ± .005 ANG. ± 1°30' FINISH √ | |
| | | | | SCALE | SHT. OF |

| BY | DATE | APPROVED BY | DATE |
|---|---|---|---|
| DWN F.S.S. | 1-7-73 | E ENGR | |
| CHK | | M ENGR | |
| E C CONTROL | | MFG ENGR | |

| WANG PART NUMBER | SIZE | DRAWING NUMBER | REV. |
|---|---|---|---|
| | E | 6311-1 | 5 |

6311-1

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DO NOT SCALE

HOLE LEGEND

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

| IDENT | DESCRIPTION | QTY |
|---|---|---|
| A | | |

CONN.1 / CONN.2 / CONN.3

COMP SIDE — WIRING SIDE

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

| COMPONENT | SIZE, TYPE | W.L. NO. | QTY. |
|---|---|---|---|
| C11,12,13,14,15, 16,17,18 | .01μF 25V | 300-1903 | 8 |
| C19,20 | 15μF 20V TA. | 300-9022 | 2 |
| Q1 | 2N5189 SIL | 375-1021 | 1 |
| J1 | AMP. CONN. 225-22221-105 | 350-0022 | 1 |
| TRANSIPAD | LG. 0877887-1 | 375-9001 | 1 |
| C21 | 470μF 500V-5% | 300-5005 | 1 |

| COMPONENT | SIZE, TYPE | W.L. NO. | QTY. |
|---|---|---|---|
| R1,2,3 | 150Ω ¼W | 330-2015 | 3 |
| R4,6,7 | 470Ω ¼W | 330-2047 | 3 |
| R5 | 270Ω ¼W | 330-2027 | 1 |
| R8 | 47Ω ½W | 331-1047 | 1 |
| R9 | 56Ω ½W | 331-1056 | 1 |
| R10,11,12,15,16,23 | 4.7K ¼W | 330-3047 | 6 |
| R13,18,19,20,22 | 10K ¼W | 330-4010 | 5 |
| R14,24 | 390Ω ¼W | 330-2039 | 2 |
| R17 | 6.8K ¼W | 330-3068 | 1 |
| R21,30 | 2.2K ¼W | 330-3022 | 2 |
| R25,26,27,28,29 | 15K ¼W | 330-4015 | 5 |
| C1 | .0047μF 500V | 300-1910 | 1 |
| C2 | 680μμF CER. | 300-1680 | 1 |
| C3,4,10 | 100μμF CER. | 300-1100 | 3 |
| C5 | 220μμF CER. | 300-1220 | 1 |
| C6 | .001μF 200V | 300-1906 | 1 |
| C7,8 | 47μμF CER. | 300-1047 | 2 |
| C9 | 470μμF CER. | 300-1470 | 1 |

| I.C. LOCATION | TYPE | W.L. NO. | TERM FOR ±0V | TERM FOR VCC +5VR | QTY. |
|---|---|---|---|---|---|
| L1 | SN7402N | 376-0016 | 7 | 14 | 1 |
| L2,23,37 | F9602 | 376-0104 | 8 | 16 | 3 |
| L3,9,25,36,38 | SN7400N | 376-0002 | 7 | 14 | 5 |
| L4,5,8,26,29,32,33 | SN7493N | 376-0011 | 10 | 5 | 7 |
| L6,11 | SN7420N | 376-0004 | 7 | 14 | 2 |
| L7 | SN7490N | 376-0073 | 10 | 5 | 1 |
| L10 | SN7403N | 376-0028 | 7 | 14 | 1 |
| L12,22,42 | SN7410N | 376-0003 | 7 | 14 | 3 |
| L13 | F9314 | 376-0108 | 8 | 16 | 1 |
| L14,17,20,24,39 | SN7404N | 376-0010 | 7 | 14 | 5 |
| L15,19,34 | F93L24 | 376-0120 | 8 | 16 | 3 |
| L16,18,30 | SN74193N | 376-0053 | 8 | 16 | 3 |
| L21 | SN745IN | 376-0012 | 7 | 14 | 1 |
| L27,31 | SN74157N | 376-0082 | 8 | 16 | 2 |
| L28 | 8242 | 376-0040 | 7 | 14 | 1 |
| L35 | SWITCH | 325-1501 | 6,7,8,9,10 | | 1 |
| L40,41 | SN74155N | 376-0049 | 8 | 16 | 2 |
| L43,44 | SN74175N | 376-0119 | 12 | 5 | 2 |

J1 PIN ASSIGNMENTS

| | | | |
|---|---|---|---|
| (A)(1) | CHA GND. | (M)(13) | ENBL B6 |
| (B)(2) | +5VR | (N)(14) | "D" |
| (C)(3) | ±0V | (P)(15) | W BUSY |
| (D)(4) | ENBL B6 | (R)(16) | BOC |
| (E)(5) | W BUSY | (S)(17) | HB |
| (F)(6) | BOC | (T)(18) | A9 |
| (H)(7) | HB | (U)(19) | A8 |
| (J)(8) | A9 | (V)(20) | A7 |
| (K)(9) | A8 | (W)(21) | A6 |
| (L)(10) | A7 | (X)(22) | A5 |
| (M)(11) | A6 | (Y)(23) | A4 |
| (N)(12) | ENBL WP | (Z)(24) | A3 |
| (P)(13) | RESET ROW DISPLAY | (a)(25) | A2 |
| (R)(14) | A5 | (b)(26) | A1 |
| (S)(15) | A4 | (c)(27) | A0 |
| (T)(16) | A3 | (d)(28) | DATA STRB |
| (U)(17) | A2 | (e)(29) | B4 |
| (V)(18) | A1 | (f)(30) | B5 |
| (W)(19) | A0 | (g)(31) | ETX |
| (X)(20) | DATA STRB | (h)(32) | B1 |
| (Y)(21) | B4 | (j)(33) | +5VR |
| (Z)(22) | B5 | (k)(34) | ±0V |
| (a)(23) | ETX | | |
| (b)(24) | B1 | | |
| (c)(25) | +5VR | | |
| (d)(26) | ±0V | | |

COMPONENT LAYOUT 6312

J1 MTD. REAR SIDE

SRPNMLKJNFEDCBA

SRPNMLKJNFEDCBA

SRPNMLKJNFEDCBA

| WANG PART NO. | ITEM | QTY. | NAME |
|---|---|---|---|
| Qty. / FIRST USED ON / ASSY USED ON | | | |

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

MATERIAL — MODEL NO. 2200 — SEE ENGR. SPECIFICATIONS No.

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

SCALE — SHT / OF /

| | MATERIAL | DESCRIPTION |
|---|---|---|
| BY | DATE | APPROVED BY / DATE |
| DWN F.S.S. | 11-2-72 | E ENGR / 6-8-73 |
| CHK | | M ENGR |
| E.C. CONTROL | | MFG ENGR |

TITLE: BLOCK CIRCUIT DIAGRAM 6312 C.R.T. CONTROL

| WANG PART NUMBER | SIZE | DRAWING NUMBER | REV. |
|---|---|---|---|
| | E | 6312-1 | 1 |

E 6312-1

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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 | ±.007 |

| IDENT. | DESCRIPTION | QTY. |
|---|---|---|
| A | | |

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

CONN.1

| | | |
|---|---|---|
| +5VR | A1 | |
| ±0V | B2 | |
| | C3 | |
| AB1 | C4 | |
| AB4 | E5 | AB2, AB3 |
| AB5 | F6 | |
| OBS | H7 | |
| ABS | J8 | |
| | K9 | |
| | L10 | |
| | M11 | |
| | N12 | |
| | P13 | |
| | R14 | |
| | S15 | |

CONN.2

| | | |
|---|---|---|
| | A1 | |
| | B2 | |
| | C3 | |
| | D4 | |
| | E5 | |
| | F6 | |
| | H7 | |
| | J8 | |
| | K9 | |
| | L10 | |
| | M11 | |
| | N12 | |
| | P13 | |
| | R14 | |
| | S15 | |

CONN.3

| | | |
|---|---|---|
| OB1 | A1 | |
| OB2 | B2 | |
| OB3 | C3 | |
| OB4 | D4 | |
| OB8 | E5 | |
| OB7 | F6 | AB6 |
| OB6 | H7 | AB7 |
| OB5 | J8 | AB8 |
| RB | K9 | |
| | L10 | |
| CHA.GND. | M11 | |
| | N12 | -12V |
| | P13 | ±0V |
| | R14 | +5VR |
| +12V | S15 | |

COMP SIDE — WIRING SIDE

| COMPONENT | SIZE, TYPE | W.L. NO. | QTY. |
|---|---|---|---|
| R1 | 100 Ω, ¼W | 330-2010 | 1 |
| R2,3,4 | 150 Ω, ¼W | 330-2015 | 3 |
| R5,7,8 | 470 Ω, ¼W | 330-2047 | 3 |
| R6 | 270 Ω, ¼W | 330-2027 | 1 |
| R9 | 47 Ω, ½W | 331-1047 | 1 |
| R10 | 56 Ω, ½W | 331-1056 | 1 |
| R11,12,13,16,17,18, 19,20,21,22,23,24, 27,28,34 | 4.7K ¼W | 330-3047 | 15 |
| R14,25,30,31,33 | 10K ¼W | 330-4010 | 5 |
| R15 | 6.8K ¼W | 330-3068 | 1 |
| R26,35 | 390 Ω, ¼W | 330-2039 | 2 |
| R29,32,36 | 2.2K ¼W | 330-3022 | 3 |
| R37 | 18K ¼W | 330-4018 | 1 |
| R38 | 39K | 330-4039 | 1 |
| C1 | .0015 μF 100V | 300-2015 | 1 |
| C2 | 650 μμF CER. | 300-1680 | 1 |
| C3,4,11 | 100 μμF CER. | 300-1100 | 3 |
| C5 | 47 μμF 500V 5% | 330-5005 | 1 |
| C6 | .001 μF 200V | 300-1006 | 1 |
| C7 | 220 μμF CER. | 300-1220 | 1 |
| C8,9 | 47 μμF CER. | 300-1047 | 2 |
| C10 | 470 μμF CER. | 300-1470 | 1 |
| C12 | 10 μF 15V TA. | 300-4018 | 1 |
| C13 | .047 μF 100V | 300-2168 | 1 |
| C14 | 120 μF 15V TA. | 300-4031 | 1 |
| C16,17,18,19,20, 21,22 | .01 μF 25V | 300-1903 | 8 |
| C23,24 | 15 μF 20V TA. | 300-4022 | 2 |
| Q1 | 2N5189 SIL. | 375-1021 | 1 |
| U1 | SEE DESCRIPTION | 330-0022 | 1 |
| TRANSIPAD | MC8970P1 | 375-3001 | 1 |
| 8 BANK SW. COVER | WL#325-1503 | 325-9047 | 1 |

| I.C. LOCATION | TYPE | W.L. NO. | TERM FOR ±0V | TERM FOR VCC +5VR | QTY. |
|---|---|---|---|---|---|
| L1 | SN7402N | 376-0016 | 7 | 14 | 1 |
| L2,12,35,40 | F9602 | 376-0104 | 8 | 16 | 4 |
| L3,9,27,41 | SN7400N | 376-0002 | 7 | 14 | 4 |
| L4,5,8,28,31,34,35 | SN7493N | 376-0011 | 10 | 5 | 7 |
| L6,11 | SN7420N | 376-0004 | 7 | 14 | 2 |
| L7 | SN7490N | 376-0073 | 10 | 5 | 1 |
| L10 | SN7403N | 376-0028 | 7 | 14 | 1 |
| L13,23,45 | SN7410N | 376-0003 | 7 | 14 | 3 |
| L14 | F9314 | 376-0109 | 8 | 16 | 1 |
| L15,18,21,26,42 | SN7404N | 376-0010 | 7 | 14 | 5 |
| L16,20 | F93L24 | 376-0120 | 8 | 16 | 2 |
| L17,19,32 | SN74193N | 376-0053 | 8 | 16 | 3 |
| L22 | SN7451N | 376-0012 | 7 | 14 | 1 |
| L24 | MH0026 | 376-0118 | 3 | 6 | 1 |
| L29,33 | SN74157N | 376-0082 | 8 | 16 | 2 |
| L30,37,39 | SN74LS86N | 376-0140 | 7 | 14 | 3 |
| L36 | SN7474N | 376-0006 | 7 | 14 | 1 |
| L38 | RKR. SW. | 325-1503 | | | 1 |
| L43,44 | SN7415SN | 376-0069 | 6 | 16 | 2 |
| L46,47 | SN74L75N | 376-0151 | 12 | 5 | 2 |

COMPONENT LAYOUT 6312A

6312A R0

| | | |

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DO NOT SCALE

HOLE LEGEND

| | HOLE DIA. | TOL. |
|---|---|---|
| DRILLED OR PUNCHED HOLE TOLERANCES: | .035 to .125 | ± .001 |
| | .126 to .350 | ± .002 |
| | .351 to .500 | ± .003 |

| IDENT | DESCRIPTION | QTY. |
|---|---|---|
| A | | |

VB (E) HB (8)

L23 L24 → (B) STEP ROW DISPLAY

L24 L23 L24 → (F) ENBL. CURSOR

L2 L18 (CP, R01, R02, A, B, C, D)

L19 L19 L19 L19 L24 — R2 R3 R4 — RS1 RS2 RS3 — CE ±0V — L15

±0V N.C.

ENBL WP (12)

ENBL B6 (4)

A0 (11) A1 (M) A2 (R) A3 (15) A4 (14) P K 10 9 J

L21 L16 L16 L21 L16

±0V

W/R A0 A1 A2 A3 A4 A5 A6 A7 A8 A9

B1 (20) L2 L1

B2 (W) L11 L3

B3 (T) L11 L7

B4 (17) L11 L12

B5 (18)

B7 (U) L11

B6 (V) L21 L6

L17

L21 L16 L22

+5VR

R1 CLR

L13 (DA QA, DB QB, DC QC, DD QD, DE QE, DF QF, CLK)

L14 L14 L14 L14 L14 L14 — R5 R6 R7 R8 R9 R10 — I1 I2 I3 I4 I5 I6

C1 C2

+12VR (Y) ±0V (X) -12VR (Z)

L20 L20 L20 L20 — R11 R12 R13 R14 R15 — O5 O4 O3 O2 O1

±0V

SER. IN PSA PSB PSC PSD PSE CLR — L25

READ STROBE (H)

L8

CLK PS ENBL E (10) SERIAL DATA (N)

R16 R17 C3 CR1 L5 L5 L5

R18 +5VR

L9 L9 L10 L10

"D" (7)

DATA STROBE (16)

HS (C)

ETX (19)

R19 ±0V

MR E (D0, D1, D2, S0, S1, S2, S3, D3) L4

L8 L8 L6 L6 L6

L2 L2

L5 (D) WRITE ENBL

L5 (6) W BUSY

L5 (13) RESET ROW DISP

STEP DISPLAY CTR (S)

LOAD S/R (X) BOC (5)

VB (4)

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

| | | | |
|---|---|---|---|
| STEP ROW DISP | A | 1 | CHA. GND |
| | B | 2 | +5VR |
| HS | C | 3 | ±0V |
| WRITE ENBL | D | 4 | ENBL B6 |
| VB | E | 5 | BOC |
| ENBL CURSOR | F | 6 | W BUSY |
| READ STROBE | H | 7 | "D" |
| A9 | J | 8 | HB |
| A6 | K | 9 | A8 |
| VB | L | 10 | A7 |
| A1 | M | 11 | A0 |
| SERIAL DATA | N | 12 | ENBL WP |
| A5 | P | 13 | RESET ROW DISP |
| A2 | R | 14 | A4 |
| STEP DISP CTR | S | 15 | A3 |
| B3 | T | 16 | DATA STROBE |
| B7 | U | 17 | B4 |
| B6 | V | 18 | B5 |
| B2 | W | 19 | ETX |
| LOAD S/R | X | 20 | B1 |
| +12VR | Y | 21 | +5VR |
| -12VR | Z | 22 | ±0V |

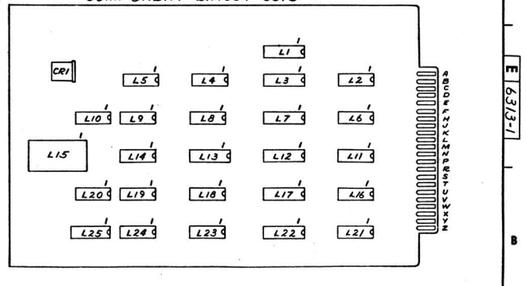
| COMPONENT | SIZE, TYPE | W.L. NO. | QTY. |
|---|---|---|---|
| R1,19 | 4.7K ¼W | 330-3047 | 2 |
| R2,3,4,5,6,7,8,9,10 | 3.3K ¼W | 330-3033 | 9 |
| R11,12,13,14,15 | 6.8 K ¼W | 330-3068 | 5 |
| R16,17 | 470 Ω ¼W | 330-2047 | 2 |
| R18 | 1K ¼W | 330-3010 | 1 |
| | | | |
| C1,2,4,5,6,7 | 15μf 20V TANT. | 300-4022 | 6 |
| C3,8,9,10,11,12,13,14,15 | .01μf 25V | 300-1903 | 9 |
| | | | |
| CR1 | 8.60160 MHZ | 321-0012 | 1 |

| I.C. LOCATION | TYPE | W.L. NO | TERM FOR ±0V | TERM FOR VCC +5VR | QTY. |
|---|---|---|---|---|---|
| L1,3,7,12,17,22 | 2102 | | | | 6 |
| L2,11,21 | SN7400N | 376-0002 | 7 | 14 | 3 |
| L4 | F9314 | 376-0108 | 8 | 16 | 1 |
| L5,16,20,24 | SN7404N | 376-0010 | 7 | 14 | 4 |
| L6 | SN7410N | 376-0003 | 7 | 14 | 1 |
| L8 | SN7402N | 376-0016 | 7 | 14 | 1 |
| L9,10 | SN7473N | 376-0005 | 11 | 4 | 2 |
| L13 | SN74174N | 376-0098 | 8 | 16 | 1 |
| L14 | SN7407N | 376-0056 | 7 | 14 | 1 |
| L15 | MM5240AA | 377-0070 | 24 | | 1 |
| L15 SOCKET | 24 PIN BLK. | 376-9003 | | | 1 |
| L18 | SN7493N | 376-0011 | 10 | 5 | 1 |
| L19 | SN7426N | 376-0067 | 7 | 14 | 1 |
| L23 | SN7420N | 376-0004 | 7 | 14 | 1 |
| L25 | SN7496N | 376-0065 | 12 | 5 | 1 |

+5VR (2) C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 (21) +5VR

±0V (3) (22) ±0V

COMPONENT LAYOUT 6313




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

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

MATERIAL

FINISH

MODEL NO. 2200

SEE ENGRG SPECIFICATIONS No.

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

SCALE SHT / OF /

| | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| DWN | F.S.S. | 11-17-72 | E ENGR | 4-5-73 |
| CHK | | | M ENGR | |
| E. C. CONTROL | | | MFG ENGR | |

TITLE BLOCK CIRCUIT DIAGRAM #6313 C.R.T. CONTROL

WANG PART NUMBER E 6313-1 SIZE DRAWING NUMBER 1 REV

E 6313-1

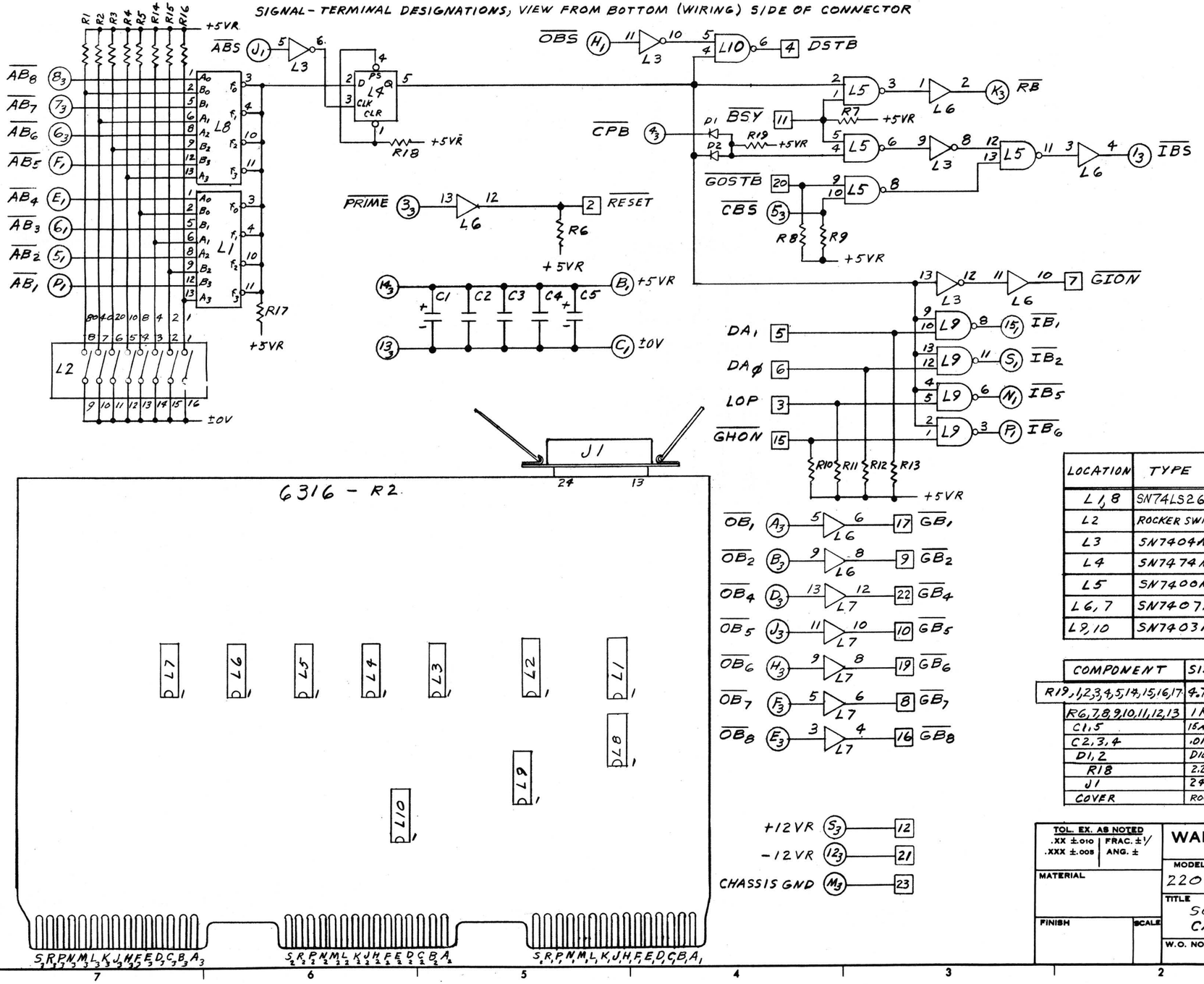
| REV. | ECR | REVISION |
|---|---|---|
| A | 3109 | PRU PER ECR 3109 Schultz |

| REV. | ECR | REVISION |
|---|---|---|
| B | 3138 | ADD 1 AMP Schultz |

| REVISIONS |
|---|
| R1- REVISED PER ECN # 3798 ✓ 9-12-73 APP'D J.W. ✓ |
| R2-REVISED PER ECN # 3923 ✓ 10 11-29-73 APP'D J.W. ✓ |
| R3 - REV PER ECN 3992 APP'D: J.W. ✓ |

CONN. 1 — CONN. 2 — CONN. 3 — WIRING SIDE / COMP. SIDE

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




J1

| | | | |
|---|---|---|---|
| ±0V | 13 | 1 | ±0V |
| | 14 | 2 | RESET |
| GHON | 15 | 3 | LOP |
| GB8 | 16 | 4 | DSTB |
| GB1 | 17 | 5 | DA1 |
| ±0V | 18 | 6 | DAØ |
| GB6 | 19 | 7 | GION |
| GOSTB | 20 | 8 | GB7 |
| -12VR | 21 | 9 | GB2 |
| GB4 | 22 | 10 | GB5 |
| CHASSIS GND | 23 | 11 | BSY |
| ±0V | 24 | 12 | +12VR |

| LOCATION | TYPE | W.L. NO. | TERM. NO ±0V | TERM. No. Vcc +5VR | QTY |
|---|---|---|---|---|---|
| L1, 8 | SN74LS266 | 376-0148 | 7 | 14 | 2 |
| L2 | ROCKER SWITCH | 325-1503 | — | — | 1 |
| L3 | SN7404N | 376-0010 | 7 | 14 | 1 |
| L4 | SN7474N | 376-0006 | 7 | 14 | 1 |
| L5 | SN7400N | 376-0002 | 7 | 14 | 1 |
| L6, 7 | SN7407N | 376-0056 | 7 | 14 | 2 |
| L9, 10 | SN7403N | 376-0028 | 7 | 14 | 2 |

| COMPONENT | SIZE/TYPE | W.L. PART NO. | QTY |
|---|---|---|---|
| R19, 1, 2, 3, 4, 5, 14, 15, 16, 17 | 4.7K ¼W | 330-3047 | 10 |
| R6, 7, 8, 9, 10, 11, 12, 13 | 1K ¼W | 330-3010 | 8 |
| C1, 5 | 15A*20V TANT | 300-4022 | 2 |
| C2, 3, 4 | .01M*CER | 300-1903 | 3 |
| D1, 2 | DIODE GER | 380-0000 | 2 |
| R18 | 2.2K ¼W | 330-3022 | 1 |
| J1 | 24 PIN CONN. | 350-1025 | 1 |
| COVER | ROCKER SW | 325-9047 | 1 |

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

MATERIAL

FINISH — SCALE

WANG LABORATORIES INC. TEWKSBURY, MASS.

MODEL NO. 2200 — DRAWN — 3-22-73 — APP'D — 6-5-73 — CHECKED — APP.

TITLE: SCHEMATIC LOGIBLOC 6316 CASSETTE CONTROL

W.O. NO. — DWG. NO. C 6316-1 — REV. 3

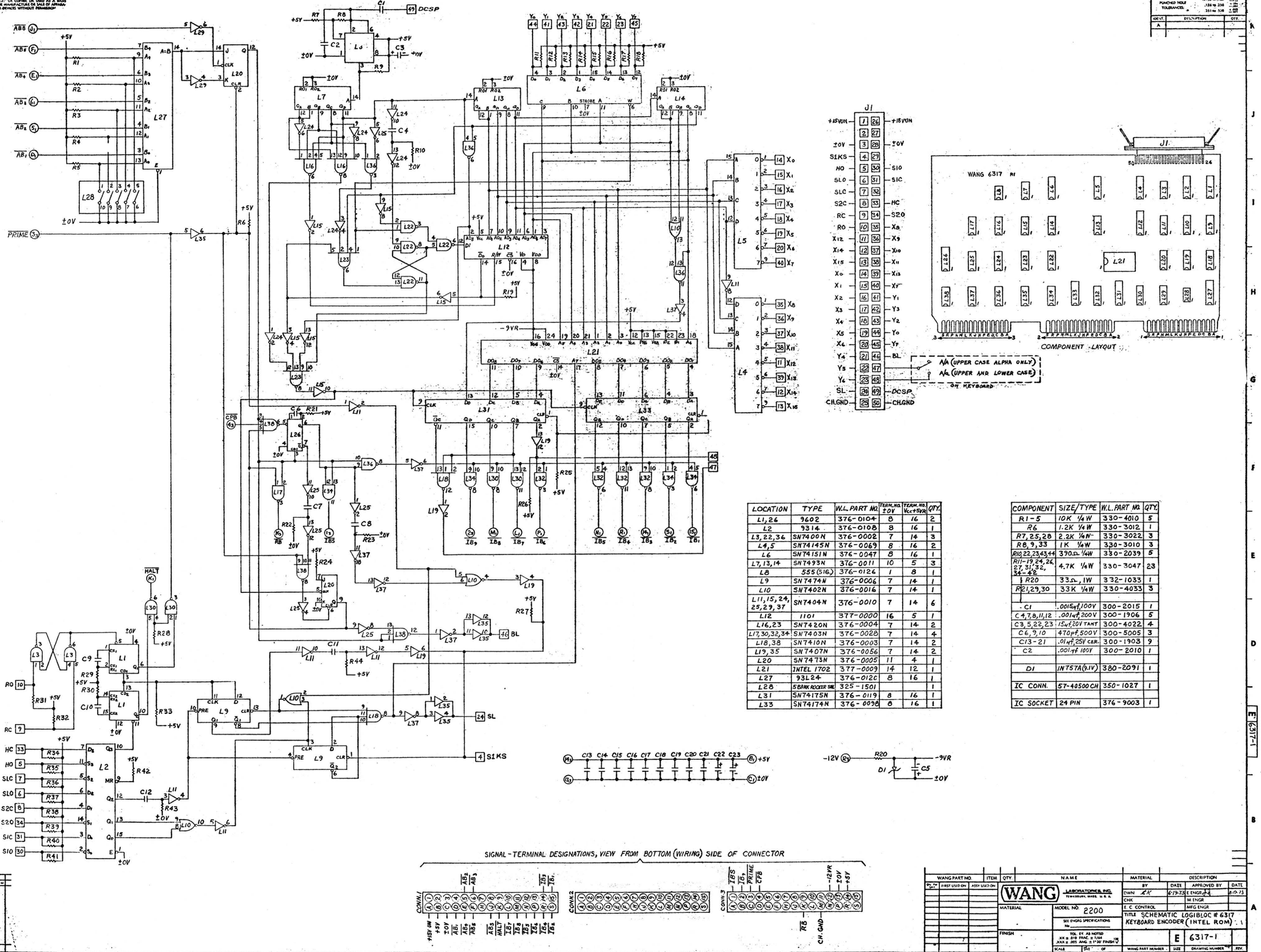
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DO NOT SCALE

HOLE LEGEND

| | HOLE DIA. | TOL. |
|---|---|---|
| DRILLED OR PUNCHED HOLE | .0135 to .125 | ±.003 |
| | .126 to .250 | ±.005 |
| TOLERANCES: | .251 to .500 | ±.008 |

| IDENT. | DESCRIPTION | QTY. |
|---|---|---|
| A | | |




| LOCATION | TYPE | W.L. PART NO. | TERM. NO. ±0V | TERM. NO. Vcc+5VR | QTY. |
|---|---|---|---|---|---|
| L1, 26 | 9602 | 376-0104 | 8 | 16 | 2 |
| L2 | 9314 | 376-0108 | 8 | 16 | 1 |
| L3, 22, 36 | SN7400N | 376-0002 | 7 | 14 | 3 |
| L4, 5 | SN74145N | 376-0069 | 8 | 16 | 2 |
| L6 | SN74151N | 376-0047 | 8 | 16 | 1 |
| L7, 13, 14 | SN7493N | 376-0011 | 10 | 5 | 3 |
| L8 | 555 (SIG.) | 376-0126 | 1 | 8 | 1 |
| L9 | SN7474N | 376-0006 | 7 | 14 | 1 |
| L10 | SN7402N | 376-0016 | 7 | 14 | 1 |
| L11, 15, 24, 25, 29, 37 | SN7404N | 376-0010 | 7 | 14 | 6 |
| L12 | 1101 | 377-0000 | 16 | 5 | 1 |
| L16, 23 | SN7420N | 376-0004 | 7 | 14 | 2 |
| L17, 30, 32, 34 | SN7403N | 376-0028 | 7 | 14 | 4 |
| L18, 38 | SN7410N | 376-0003 | 7 | 14 | 2 |
| L19, 35 | SN7407N | 376-0056 | 7 | 14 | 2 |
| L20 | SN7473N | 376-0005 | 11 | 4 | 1 |
| L21 | INTEL 1702 | 377-0009 | 14 | 12 | 1 |
| L27 | 93L24 | 376-0120 | 8 | 16 | 1 |
| L28 | 5 BANK ROCKER SW. | 325-1501 | | | 1 |
| L31 | SN74175N | 376-0119 | 8 | 16 | 1 |
| L33 | SN74174N | 376-0098 | 8 | 16 | 1 |

| COMPONENT | SIZE/TYPE | W.L. PART NO. | QTY. |
|---|---|---|---|
| R1-5 | 10K ¼ W | 330-4010 | 5 |
| R6 | 1.2K ¼ W | 330-3012 | 1 |
| R7, 25, 28 | 2.2K ¼ W | 330-3022 | 3 |
| R8, 9, 33 | 1K ¼ W | 330-3010 | 3 |
| R10, 22, 23, 43, 44 | 390Ω ¼ W | 330-2039 | 5 |
| R11-19, 24, 26, 27, 31, 32, 34-42 | 4.7K ¼ W | 330-3047 | 23 |
| R20 | 33Ω, 1W | 332-1033 | 1 |
| R21, 29, 30 | 33K ¼ W | 330-4033 | 3 |
| C1 | .0015μf, 100V | 300-2015 | 1 |
| C4, 7, 8, 11, 12 | .001μf, 200V | 300-1906 | 5 |
| C3, 5, 22, 23 | .15μf, 20V TANT | 300-4022 | 4 |
| C6, 9, 10 | 470pf, 500V | 300-5005 | 3 |
| C13-21 | .01μf, 25V CER. | 300-1903 | 9 |
| C2 | .001μf 100V | 300-2010 | 1 |
| D1 | IN757A (9.1V) | 380-2091 | 1 |
| IC CONN. | 57-40500 CH | 350-1027 | 1 |
| IC SOCKET | 24 PIN | 376-9003 | 1 |

| WANG PART NO. | ITEM | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A. | | |
| MATERIAL | | | MODEL NO. 2200 | BY: DWN LK 6-19-73; CHK | DATE: 6-19-73; APPROVED BY: E ENGR; M ENGR; MFG ENGR; DATE: 6-19-73 |
| FINISH | | | SEE ENGRG SPECIFICATIONS No. | E.C. CONTROL | |
| | | | TOL. EX. AS NOTED .XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1°30' | SCALE 1/1 OF | TITLE SCHEMATIC LOGIBLOC # 6317 KEYBOARD ENCODER (INTEL ROM) |
| | | | | WANG PART NUMBER | SIZE E DRAWING NUMBER 6317-1 REV. |

6317-1

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HOLE LEGEND

| DRILLED OR PUNCHED HOLE TOLERANCES | HOLE DIA. | TOL. |
|---|---|---|
| | .015 to .125 | ± .003 |
| | .126 to .250 | ± .005 |
| | .251 to .500 | ± .007 |

| IDENT. | DESCRIPTION | QTY. |
|---|---|---|
| A | | |

WIRING SIDE

CONN. 3 — CONN. 2 — CONN. 1




| | | | | | |
|---|---|---|---|---|---|
| 660-0201 | 4 | NR | SOLDER | | 63-37 ALLOY |
| 651-0607 | 3 | 29 | DISC EYELET 5E-96 | | |
| 654-0049 | 2 | 24 | AMP OFF SET TERMINAL | | #42506-2 |
| 350-0011 | 1 | 54 | CONNECTOR 225-21521-110 | | 30 PIN CONNECTOR |
| WANG PART NO. | ITEM | QTY. | NAME | MATERIAL | DESCRIPTION |

| REVISION | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| REVISED PER ECN #3653 APPD [illegible] | DWN. [illegible] | 6-12-73 | E ENGR [illegible] | 6-13-73 |
| | CHK | | M ENGR | |
| | E. C. CONTROL | | MFG ENGR | |

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

MATERIAL

FINISH

MODEL NO. 2200

SEE ENGRG SPECIFICATIONS No.

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

SCALE — DATE — BY

TITLE MOTHER BOARD

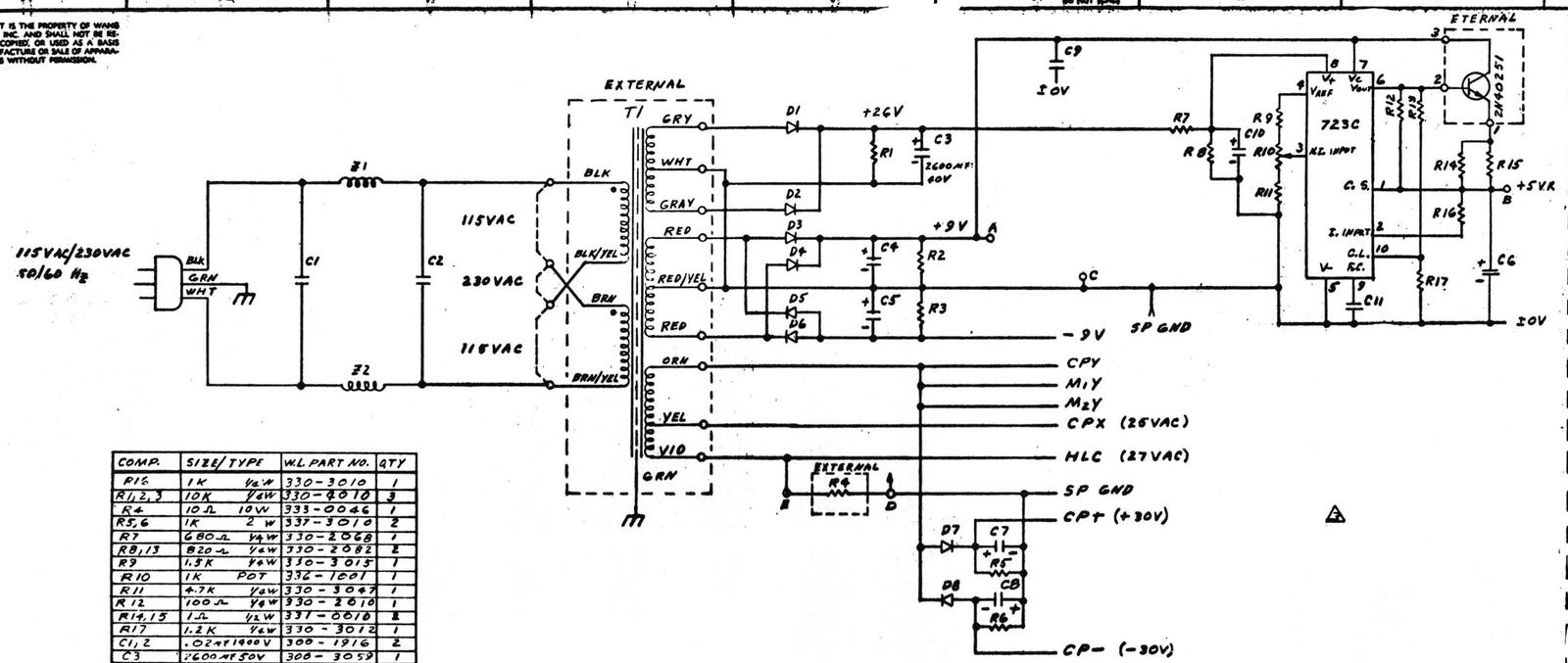
E 6322-1 1

WANG PART NUMBER — SIZE — DRAWING NUMBER — REV.

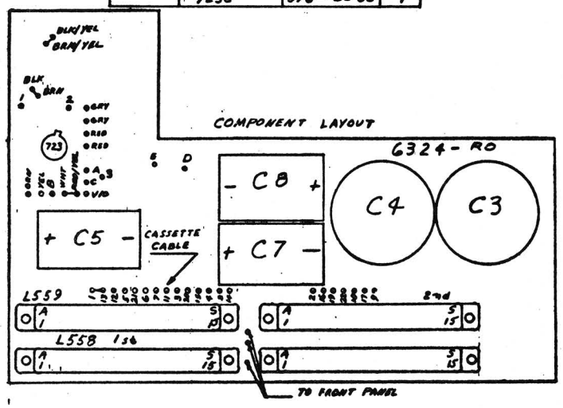
E 6322-1

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DO NOT SCALE




| COMP. | SIZE/TYPE | W.L PART NO. | QTY |
|---|---|---|---|
| R16 | 1K ½W | 330-3010 | 1 |
| R1,2,3 | 10K ¼W | 330-4010 | 3 |
| R4 | 10Ω 10W | 333-0046 | 1 |
| R5,6 | 1K 2 W | 337-3010 | 2 |
| R7 | 680Ω ¼W | 330-2068 | 1 |
| R8,13 | 820Ω ¼W | 330-2082 | 2 |
| R9 | 1.5K ¼W | 330-3015 | 1 |
| R10 | 1K POT | 332-1001 | 1 |
| R11 | 4.7K ¼W | 330-3047 | 1 |
| R12 | 100Ω ¼W | 330-2010 | 1 |
| R14,15 | 1Ω ½W | 331-0610 | 2 |
| R17 | 1.2K ¼W | 330-3012 | 1 |
| C1,2 | .02+1400V | 300-1916 | 2 |
| C3 | 2600MF 50V | 308-3059 | 1 |
| C4 | 18000MF 18V | 308-3045 | 1 |
| C5 | 2000MF 20V | 308-3058 | 1 |
| C6 | 100MF 16V | 300-3011 | 1 |
| C7,8 | 500MF 50V | 300-3035 | 2 |
| C9,11 | .01MF CER | 300-1703 | 2 |
| C10 | 15MF 20V | 300-3007 | 1 |
| D1,2,5,6,7,8 | EM403 | 380-4000 | 6 |
| D3,4 | GEA15-F | 380-3004 | 4 |
| Z1, Z2 | 22 MA | 380-0080 | 2 |
| | 1 WK CORD | 420-1000 | 1 |
| T1 | MMC 4831 | 610-0089 | 1 |
| CONN. | 223-2132-110 | 380-8811 | 4 |
| | 723C | 376-0066 | 1 |




| SIG. | PC. BD NO. | WIRE NO. | CONN. PIN NO. |
|---|---|---|---|
| ±0V | 1 | 1 | 1 |
| RESET | 2 | 2 | 2 |
| LOP | 3 | 3 | 3 |
| DSTB | 4 | 4 | 4 |
| DA 1 | 5 | 5 | 5 |
| DA Ø | 6 | 6 | 6 |
| GION | 7 | 7 | 7 |
| GB7 | 8 | 8 | 8 |
| GB2 | 9 | 9 | 9 |
| GB5 | 10 | 10 | 10 |
| BSY | 11 | 11 | 11 |
| +12VR | 12 | 12 | 12 |

| SIG. | PC. BD NO. | WIRE NO. | CONN. PIN NO. |
|---|---|---|---|
| ±0V | 13 | 13 | 13 |
| | | 14 | 14 |
| GHDN | 15 | 15 | 15 |
| GB0 | 16 | 16 | 16 |
| GB1 | 17 | 17 | 17 |
| ±0V | | 18 | 18 |
| GB6 | 19 | 19 | 19 |
| GOSTB | 20 | 20 | 20 |
| -12VR | 21 | 21 | 21 |
| GB4 | 22 | 22 | 22 |
| CH. GND | 14 | 23 | 23 |
| ±0V | | 24 | 24 |

CABLE SOLDER POINTS

±0V 1
±0V 13
+12VR 12
DA 1 05
-12VR 21
DA Ø 06
GION 07
BSY 011
LOP 03
GOSTB 020
GHDN 015
DSTB 04
GB7 08
CH. GND 014

RESET 02
GB0 016
GB6 019
GB4 022
GB5 010
GB1 017
GB2 09

L559 1st HALF

+9V — +5VR
+5VR — ±0V
±0V — -9V
-9V
M2X
M1X

L559 2nd HALF

NACF — HCL
PACF — CP-
GHS — SP GND
NACR — SP GND
PACR — -9V
CP+
CP-
SP GND
SP GND
-9V
+9V

+5VR
DGN
REWD SW
TO FRONT PANEL

L558 1st HALF

CPX — M2X
+5VR — M1Y
±0V — +26V
+12VR — CHASSIS
DA1 — -12VR
DAØ — CPY
DGN — M2Y
GION — M1Y
BSY
LOP
GOSTB
REWD SW
GHDN
DSTB
GB7

L558 2nd HALF

RESET — ±0V
NACF — +5VR
PACF
GHS
NACR
PACR
GB0
GB6
GB4
GB5
GB1
GB2
±0V
+5VR

NOTE:-
1. STRIP BACK ¼" AND TIN ⅛"
2. FOLD BACK AND TIE ALL UNUSED WIRES

| REV. | NO. | REVISION | BY | DATE |
|---|---|---|---|---|
| 0<1 | | | | |
| | 1 | REFER ECN# 3912 11-14-72 EFF 2??? | G.Z. | 12-5-72 |
| | 2 | REVISED PER ECN# 0-5??A APPD 12-18-73 | J?S | 12-18-73 |
| | 3 | REVISED PER ECN# 4043A. JEB 4-26-74 | GD | 6-27-74 |

| WANG PART NO. | ITEM | QTY. | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| 660-0202 | 1 | A/R | SOLDER | | 63-37 ALLOY |

| Qty. Per Unit | FIRST USED ON | ASSY USED ON |
|---|---|---|
| | | |

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

MATERIAL

MODEL NO. 2217/16

SEE ENGNG 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 JB | 9-12-73 | E ENGR G. D. | 6-7-73 |
| CHK | | M ENGR | |
| E C CONTROL | | MFG ENGR | |

TITLE SCHEMATIC, POWER & SUPPLY MOTHER BOARD

| WANG PART NUMBER | SIZE | DRAWING NUMBER | REV. |
|---|---|---|---|
| | D | 6324-1 | 3 |

D 6324-1

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DO NOT SCALE

HOLE LEGEND

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

| IDENT | DESCRIPTION | QTY |
|---|---|---|
| A | | |

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

CONN. 1 (COMP. SIDE / WIRING SIDE)

| | | | |
|---|---|---|---|
| -12VR | A1 | 1 | |
| +5VR | B1 | 2 | |
| ±0V | C1 | 3 | |
| | D1 | 4 | |
| | E1 | 5 | |
| | F1 | 6 | |
| | H1 | 7 | |
| | J1 | 8 | |
| | K1 | 9 | |
| | L1 | 10 | |
| | M1 | 11 | |
| | N1 | 12 | |
| | P1 | 13 | |
| | R1 | 14 | |
| | S1 | 15 | |
| | T1 | 16 | |
| R7 | U1 | 17 | R8 |
| R10 | V1 | 18 | R9 |
| R11 | W1 | 19 | |
| R5 | X1 | 20 | R4 |
| | Y1 | 21 | R6 |

CONN. 2

| | | | |
|---|---|---|---|
| | A2 | 1 | IC8 |
| PDS | B2 | 2 | IC4 |
| | C2 | 3 | IC2 |
| | D2 | 4 | |
| | E2 | 5 | |
| | F2 | 6 | |
| | H2 | 7 | |
| | J2 | 8 | |
| | K2 | 9 | |
| | L2 | 10 | |
| | M2 | 11 | |
| | N2 | 12 | |
| | P2 | 13 | |
| | R2 | 14 | |
| | S2 | 15 | |
| | T2 | 16 | |
| ID4 | U2 | 17 | R16 |
| ID3 | V2 | 18 | R17 |
| R12 | W2 | 19 | R18 |
| | X2 | 20 | R19 |
| | Y2 | 21 | |

CONN. 3

| | | | |
|---|---|---|---|
| R14 | A3 | 1 | R15 |
| Q1 | B3 | 2 | |
| | C3 | 3 | |
| | D3 | 4 | |
| | E3 | 5 | |
| | F3 | 6 | |
| | H3 | 7 | |
| | J3 | 8 | |
| | K3 | 9 | |
| | L3 | 10 | |
| | M3 | 11 | |
| | N3 | 12 | |
| | P3 | 13 | |
| | R3 | 14 | |
| | S3 | 15 | |
| | T3 | 16 | |
| RESET | U3 | 17 | R0 |
| +12VR | V3 | 18 | R1 |
| R3 | W3 | 19 | R2 |
| DIN | X3 | 20 | IA1 |
| IA4 | Y3 | 21 | IB4 |
| IA2 | A4 | 22 | IC1 |
| IB1 | B4 | 23 | IB2 |
| IA8 | C4 | 24 | IB8 |
| | D4 | 25 | ±0V |
| | E4 | 26 | +5VR |

NOTE:
1. SOME WANG LAB. NO'S ARE LISTED ON S.C. CHIPS ABOVE.
2. *SN74S30N W.L.# 376-0119 QTY. 7, TO BE USED AS SECOND CHOICE ONLY IF *SN74S30N W.L.# 376-0129 QTY. 7, IS NOT AVAILABLE.

JUMPER CONFIGURATION
1ST 8K (8K) A TO X
2ND 8K (16K) B TO X
3RD 8K (24K) C TO X
4TH 8K (32K) D TO X

| REVISION | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| WANG PART NO. | ITEM | QTY | NAME |
|---|---|---|---|
| FIRST USED ON | ASSY USED ON | | |

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

MATERIAL

FINISH

MODEL NO. 2200

SEE ENGRG SPECIFICATIONS No.

TOL. EX. AS NOTED
XX ± .010 FRAC. ± 1/64
ANG. ± .005 AVG. ± 1/32 FINISH

SCALE SHT. 1 OF 1

| MATERIAL | DESCRIPTION |
|---|---|
| BY | DATE / APPROVED BY / DATE |
| DWN K.S.S. | 6-20-73 / ENGR / |
| CHK | / MGR |
| I. C. CONTROL | / MFG ENGR |

TITLE
SCHEMATIC LOGIBLOC #6325 MEMORY (RA) FOR 2200

E 6325-1 9

WANG PART NUMBER / SIZE / DRAWING NUMBER / REV.

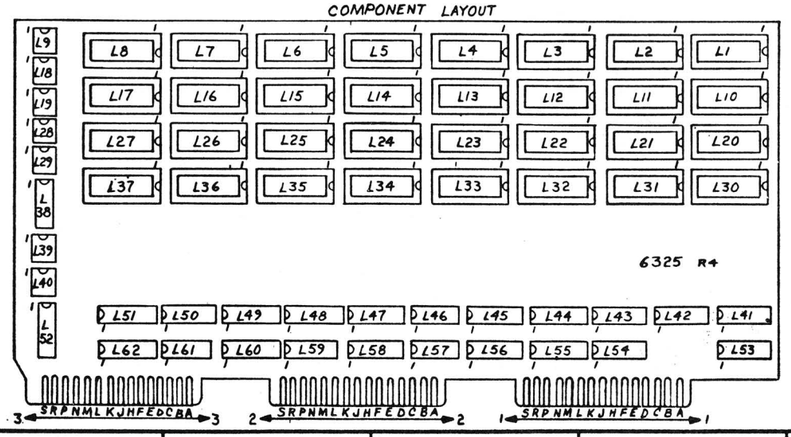
SH. 2 OF 2 IS "D" SIZE

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

| | A1 * | A2 * | B1 * | BX1 * | BX2 * | BX2M * |
|---|---|---|---|---|---|---|
| | | | | L57,P5 TO L52,P12 | | L57,P5 TO L52,P11 |
| L1 | 377-0080 | 377-0163 | 377-0163 | 377-0183 | 377-0203 | 377-0203 |
| L2 | 377-0088 | 377-0088 | 377-0088 | 377-0191 | 377-0191 | 377-0191 |
| L3 | 377-0135 | 377-0171 | 377-0171 | | | 377-0223 |
| L4 | 377-0104 | 377-0175 | 377-0175 | | | |
| L5 | 377-0081 | 377-0164 | 377-0164 | 377-0184 | 377-0202 | 377-0202 |
| L6 | 377-0089 | 377-0089 | 377-0089 | 377-0192 | 377-0192 | 377-0192 |
| L7 | 377-0136 | 377-0172 | 377-0172 | | | 377-0224 |
| L8 | 377-0105 | 377-0176 | 377-0176 | | | |
| | | | | | | |
| L10 | 377-0078 | 377-0078 | 377-0078 | 377-0181 | 377-0181 | 377-0181 |
| L11 | 377-0086 | 377-0086 | 377-0086 | 377-0189 | 377-0200 | 377-0200 |
| L12 | 377-0094 | 377-0169 | 377-0169 | | | 377-0221 |
| L13 | 377-0133 | 377-0133 | 377-0173 | | | |
| L14 | 377-0079 | 377-0079 | 377-0079 | 377-0182 | 377-0182 | 377-0182 |
| L15 | 377-0087 | 377-0087 | 377-0087 | 377-0190 | 377-0201 | 377-0201 |
| L16 | 377-0095 | 377-0170 | 377-0170 | | | 377-0222 |
| L17 | 377-0134 | 377-0134 | 377-0174 | | | |
| | | | | | | |
| L20 | 377-0076 | 377-0076 | 377-0076 | 377-0179 | 377-0179 | 377-0179 |
| L21 | 377-0084 | 377-0084 | 377-0084 | 377-0187 | 377-0198 | 377-0198 |
| L22 | 377-0092 | 377-0092 | 377-0092 | 377-0195 | 377-0195 | 377-0195 |
| L23 | 377-0100 | 377-0100 | 377-0100 | | | |
| L24 | 377-0077 | 377-0077 | 377-0077 | 377-0180 | 377-0180 | 377-0180 |
| L25 | 377-0130 | 377-0130 | 377-0130 | 377-0188 | 377-0199 | 377-0199 |
| L26 | 377-0093 | 377-0093 | 377-0093 | 377-0196 | 377-0196 | 377-0196 |
| L27 | 377-0101 | 377-0101 | 377-0101 | | | |
| | | | | | | |
| L30 | 377-0128 | 377-0128 | 377-0161 | 377-0177 | 377-0177 | 377-0177 |
| L31 | 377-0082 | 377-0165 | 377-0165 | 377-0185 | 377-0185 | 377-0185 |
| L32 | 377-0090 | 377-0167 | 377-0167 | 377-0193 | 377-0193 | 377-0193 |
| L33 | 377-0131 | 377-0131 | 377-0131 | | | |
| L34 | 377-0129 | 377-0129 | 377-0162 | 377-0178 | 377-0178 | 377-0178 |
| L35 | 377-0083 | 377-0166 | 377-0166 | 377-0186 | 377-0197 | 377-0197 |
| L36 | 377-0091 | 377-0168 | 377-0168 | 377-0194 | 377-0194 | 377-0194 |
| L37 | 377-0132 | 377-0132 | 377-0132 | | | |

* PREFIX & SUFFIX IDENTIFICATION
"A" - 2200A
"B" - 2200B
"M" - MATRIX OPTION, LOAD L3,7,12,46
"X" - DEFINES 2ND 8K ROM IN A 2200B

COMPONENT LAYOUT




| LOCATION | TYPE | W.L. P/N | TERM.NO. -5V | TERM.NO. Vcc+5V | QTY. |
|---|---|---|---|---|---|
| L9,18,19,28,29,39,40 | SN7536N SEE NOTE 2 | 376-0129 | 4 | 8 | 7 |
| L38 | SN7476N | 376-0007 | 5 | 13 | 1 |
| L41,42,43,44,45, 47,48,49,50,51 | SN74153N | 376-0048 | 8 | 16 | 10 |
| L52 | F9321 | 376-0096 | 8 | 16 | 1 |
| L53 | SN7437N | 376-0068 | 7 | 14 | 1 |
| L46,54,57,59,61 | SN7404N | 376-0010 | 7 | 14 | 5 |
| L55,56,58,60,62 | 8T10 | 376-0137 | 8 | 16 | 5 |
| REF. NOTE 1 | I.C. SOCKET | 376-9003 | | | 32 |

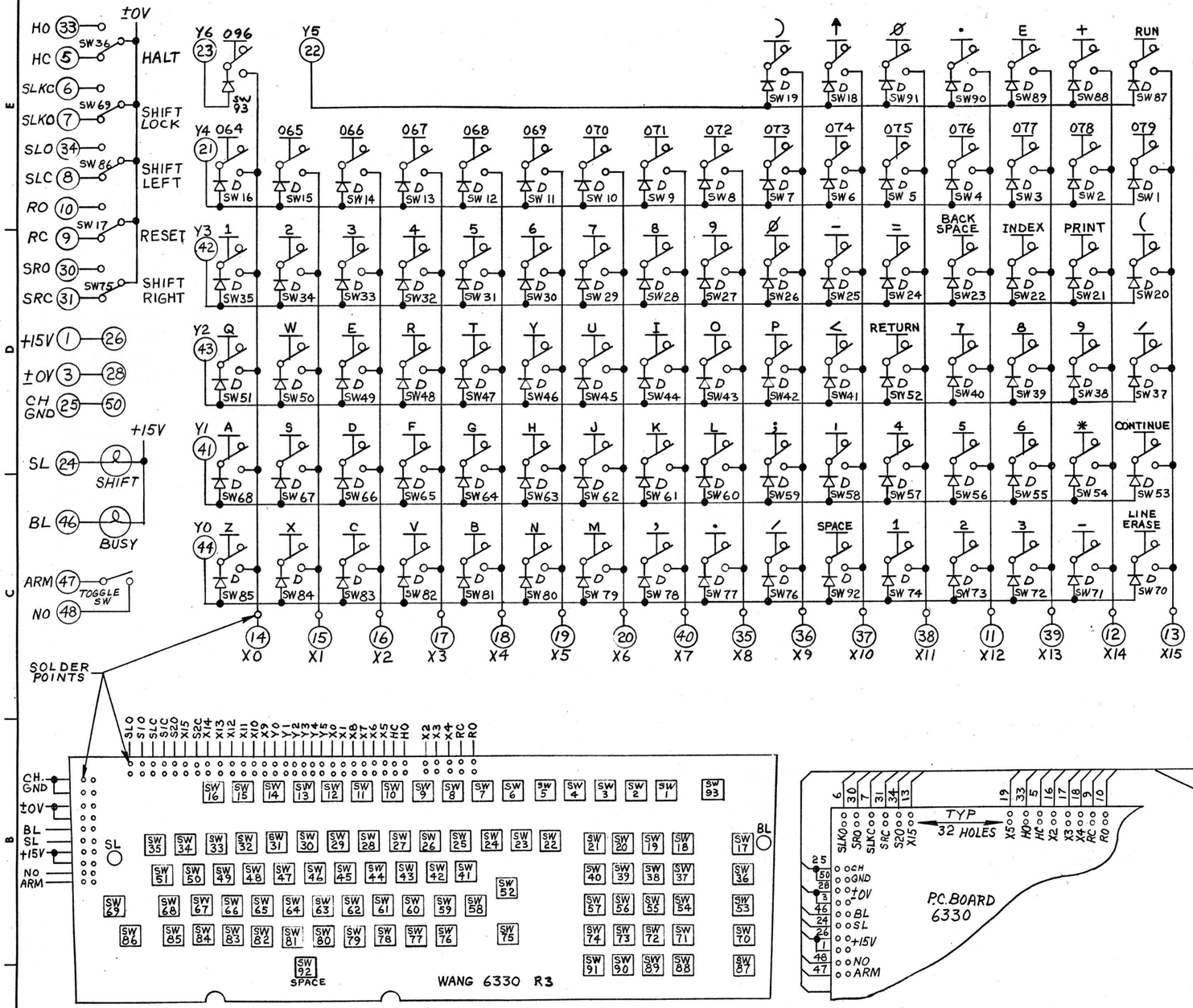
NOTES:
1. SEE JUMPER CONFIGURATION ON SHEET 1 OF 2.

| COMPONENT | SIZE/TYPE | W.L. P/N | QTY |
|---|---|---|---|
| R1,3 | 1K 1/4W | 330-3010 | 2 |
| R2 | 4.7K 1/4W | 330-3047 | 1 |
| R4-17 | 10Ω 1/4W | 330-3010 | 14 |
| R18-57, 98-137, 178 | 2.7K 1/4W | 330-3027 | 81 |
| R58-97, 138-177 | 6.8K 1/4W | 330-3068 | 80 |
| R179 | 2.2K 1/4W | 330-3022 | 1 |
| | | | |
| | | | |
| C1-4,12,13 | .1μF 50V | 300-1930 | 6 |
| C5-9 | .05μF 12V | 300-1900 | 5 |
| C10,11,14,21 | 15μF 20V TANT | 300-4022 | 4 |
| C15-20,22-28 | 1μF 35V TANT | 300-4000 | 13 |

REVISION

WANG LABORATORIES INC.
TEWKSBURY, MASS.
MODEL NO. 2200 | DRAWN J.R 6-11-74 | APP. P.J.R 6-17-74 | CHECKED | APP.
TITLE: SCHEMATIC LOGIBLOC # 6325 VARIATION CHART
SHT 2 OF 2 | SCHEM. NO. D 6325-1 | REV. 9

D 6325-2




| SIGNAL | WIRE NO. | PIN NO. |
|---|---|---|
| +15V | 1 | 1 |
| X | 2 | 2 |
| ±0V | 3 | 3 |
| ±0V | 4 | 4 |
| HC | 5 | 5 |
| SLKC | 6 | 6. |
| SLKO | 7 | 7 |
| SLC | 8 | 8 |
| RC | 9 | 9 |
| RO | 10 | 10 |
| X12 | 11 | 11 |
| X14 | 12 | 12 |
| X15 | 13 | 13 |
| X0 | 14 | 14 |
| X1 | 15 | 15 |
| X2 | 16 | 16 |
| X3 | 17 | 17 |
| X4 | 18 | 18 |
| X5 | 19 | 19 |
| X6 | 20 | 20 |
| Y4 | 21 | 21 |
| Y5 | 22 | 22 |
| Y6 | 23 | 23 |
| SL | 24 | 24 |
| CHAS. | 25 | 25 |

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

| REVISIONS | BR | BR | DW | BR | BR |
|---|---|---|---|---|---|
| | 6-17-73 | 2-21-74 | 10/3/74 | 2-12-75 | 2-25-75 |
| 0 CHANGED PER RFA-0329 APP'D. | | | | | |
| 1/1 REV PER ECN 4040 APP'D | JWY | | | | |
| 2/1 REV PER ECN 4401 10-1-74 APP'D | | JWY | | | |
| 3/1 REVISED PER RFA-1497 APP'D: | | | JWY | | |
| 4/1 REVISED PER RFA-1536 APP'D: | | | | JWY | JWY |

| WANG PART NO. | ITEM | QTY. | NAME | DESCRIPTION |
|---|---|---|---|---|
| 380-1001 | | 88 | SIL. DIODE | 4B |
| SWITHRU 16 325-2413 | | 17 | OAK SWITCH | SPST 7/16" |
| ALL OTHERS 325-2405 | | 71 | OAK SWITCH | SPST 1/2" |
| SW17,36,69,75,86 325-2407 | | 5 | OAK SWITCH | SPDT 1/2" |
| 370-0004 | | 2 | LAMP | 1762 WHITE |
| 654-1205 | 2 | REF | GROMMET | 1/2 I.D. - 3/4 HOLE |
| 220-2650-1 | 1 | REF | CABLE ASSY. | DWG. C-6482-4 |

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

MATERIAL

FINISH SCALE

WANG LABORATORIES INC. TEWKSBURY, MASS.

MODEL NO. 2222 | DRAWN BK 5-30-73 | APP. 6-5-73 | CHECKED | APP.

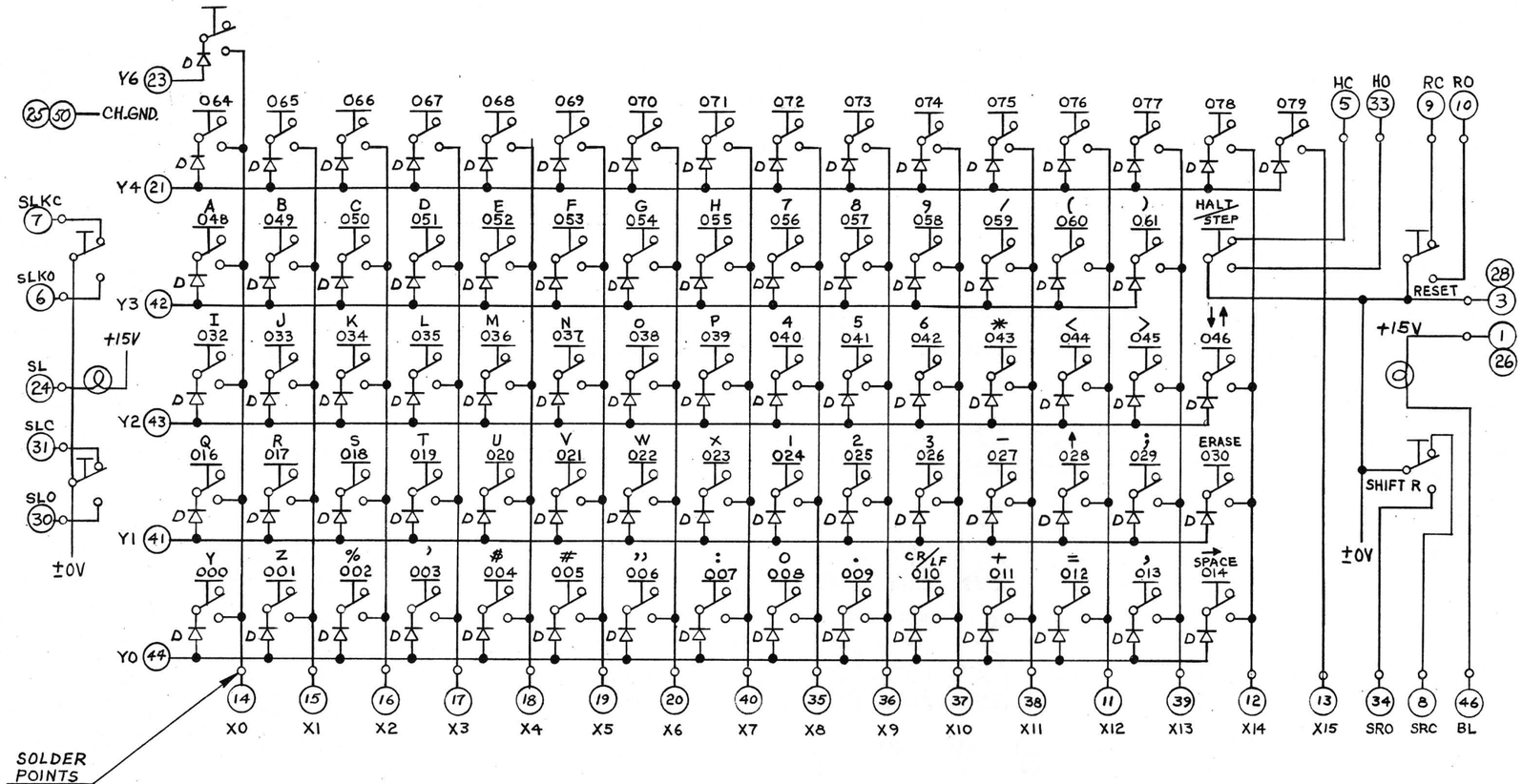
TITLE SCHEMATIC LOGIBLOC 2222 KEYBOARD

W.O. NO. | DWG. NO. C 6330 | REV. 4

E.REV. 1

0EE9 C 6330 ON DWG

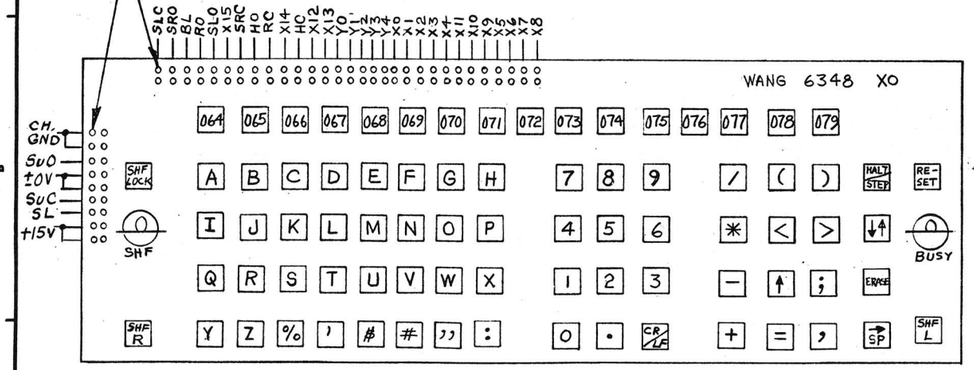
DO NOT SCALE

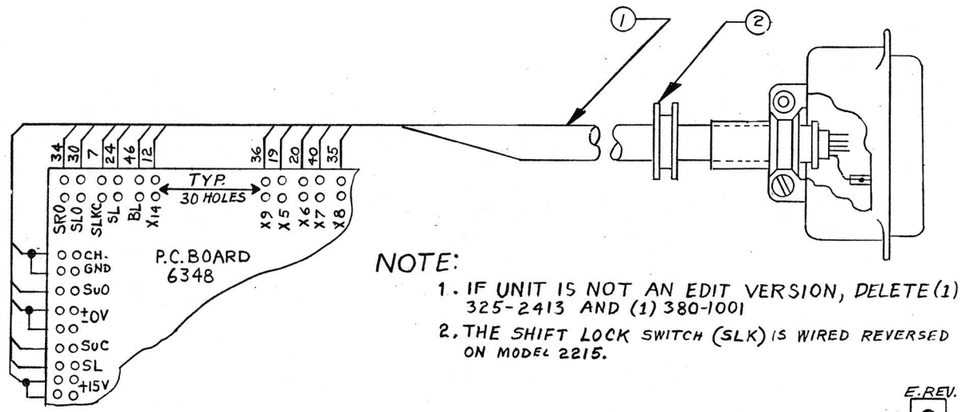



| SIGNAL | WIRE NO. | PIN NO. |
|---|---|---|
| +15V | 1 | 1 |
| X | 2 | 2 |
| ±0V | 3 | 3 |
| X | X | 4 |
| HC | 5 | 5 |
| SLKO | 6 | 6 |
| SLKC | 7 | 7 |
| SRC | 8 | 8 |
| RC | 9 | 9 |
| RO | 10 | 10 |
| X12 | 11 | 11 |
| X14 | 12 | 12 |
| X15 | 13 | 13 |
| X0 | 14 | 14 |
| X1 | 15 | 15 |
| X2 | 16 | 16 |
| X3 | 17 | 17 |
| X4 | 18 | 18 |
| X5 | 19 | 19 |
| X6 | 20 | 20 |
| Y4 | 21 | 21 |
| X | 22 | 22 |
| Y6 | 23 | 23 |
| SL | 24 | 24 |
| CHAS. | 25 | 25 |

| SIGNAL | WIRE NO. | PIN NO. |
|---|---|---|
| +15V | 26 | 26 |
| X | 27 | 27 |
| ±0V | 28 | 28 |
| X | X | 29 |
| SLO | 30 | 30 |
| SLC | 31 | 31 |
| X | 32 | 32 |
| HO | 33 | 33 |
| SR0 | 34 | 34 |
| X8 | 35 | 35 |
| X9 | 36 | 36 |
| X10 | 37 | 37 |
| X11 | 38 | 38 |
| X13 | 39 | 39 |
| X7 | 40 | 40 |
| Y1 | 41 | 41 |
| Y3 | 42 | 42 |
| Y2 | 43 | 43 |
| Y0 | 44 | 44 |
| X | 45 | 45 |
| BL | 46 | 46 |
| X | 47 | 47 |
| X | 48 | 48 |
| X | X | 49 |
| CHAS. | 50 | 50 |

SOLDER POINTS




NOTE:

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

E.REV. O

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

| NO. | REVISION | BY | DATE |
|---|---|---|---|
| 1 | REV PER RFA-0330 APP'D: | EK | 8-17-73 |
| 2 | REV PER ECN 4039 APP'D: J.J. | EK | 2-21-74 |
| 3 | REV PER ECN# #4388 APP'D: | RSW | 10/2/74 |
| 4 | REV PER RFA-1536 APP'D: | EK | 2-25-75 |

| WANG PART NO. | ITEM | QTY. | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| 380-1001 | 7 | 76 | SIL. DIODE | | 4B |
| 325-2413 | 6 | 17 | OAK SWITCH (SW64-79) | | 7/16" SPST |
| 325-2405 | 5 | 59 | OAK SWITCH | | 1/2" SPST |
| 325-2407 | 4 | 5 | OAK SWITCH | | 1/2" SPDT |
| 370-6002 | 3 | 2 | LAMP | | 1762 CLEAR |
| 654-1205 | 2 | REF | GROMMET | | 1/2 I.D. - 3/4 HOLE |
| 220-0101 | 1 | REF | CABLE. ASSY. | | DWG.# C-6422-142 |

TOL. EX. AS NOTED
.XX ±.010 FRAC. ±1/64
.XXX ±.005 ANG. ±0°30'
FINISH: 63
MATERIAL
FINISH
Sheet 4 of

| IDENT | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|

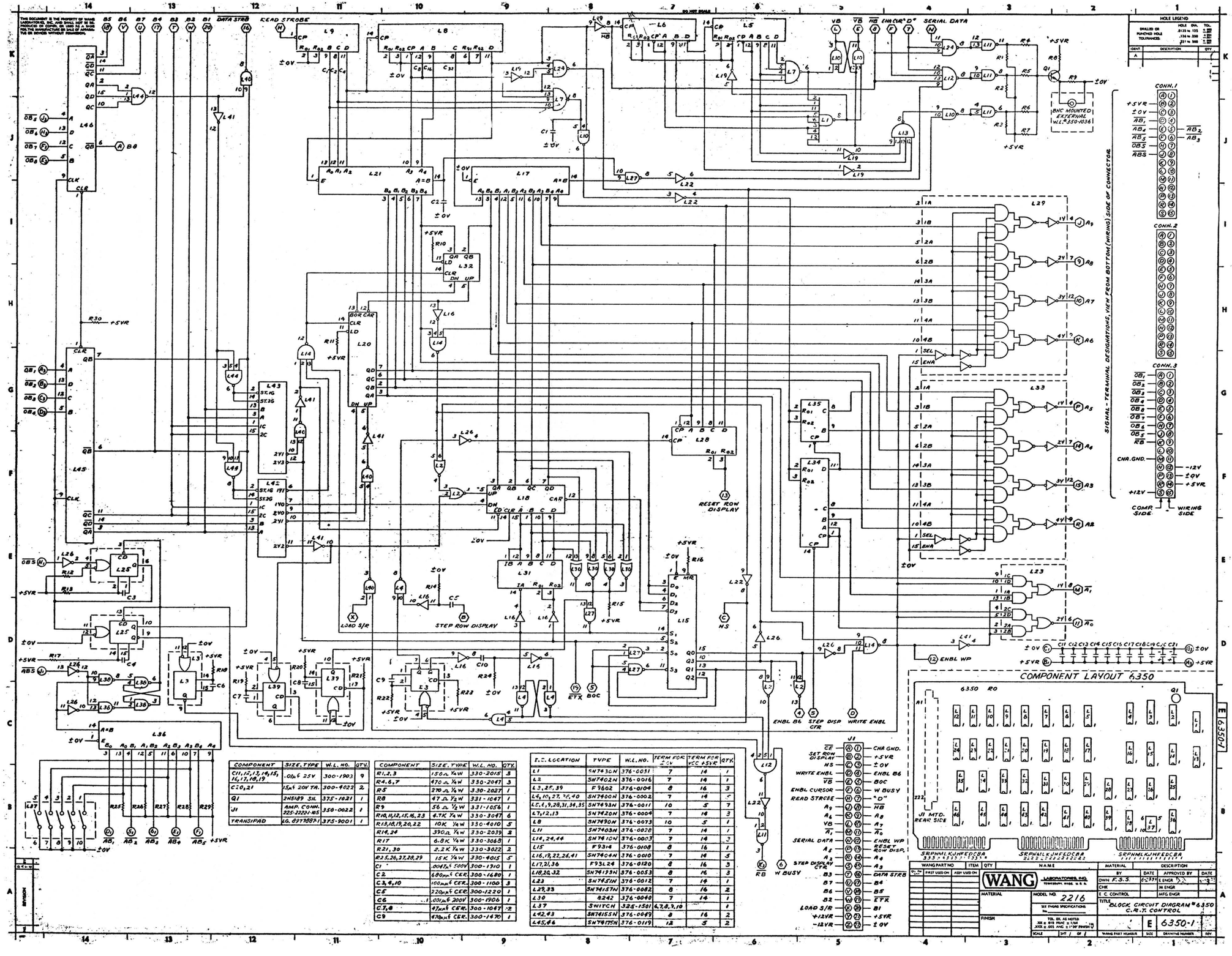
WANG LABORATORIES, INC.
TEWKSBURY, MASS. U. S. A.

| | | | |
|---|---|---|---|
| DR EK | DATE 6-11-73 | | |
| CHK | DATE 2-26-75 | | |
| APPD | DATE 7-25-73 | | |
| MODEL No. 2215 | W.O. No. | SCALE | SHEET OF |

TITLE: SCHEMATIC LOGIBLOC 2200 KEYBOARD #6348

| 210-6348 | 4 | C | 6348 |
|---|---|---|---|
| PART NUMBER | REV | SIZE | DRAWING NUMBER |

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| COMPONENT | SIZE, TYPE | W.L. NO. | QTY. |
|---|---|---|---|
| C11,12,13,14,15, 16,17,18,19 | .01μF 25V | 300-1903 | 9 |
| C20,21 | 15μF 20V TA. | 300-4022 | 2 |
| Q1 | 2N5189 SIL | 375-1621 | 1 |
| J1 | AMP. CONN. 225-22221-105 | 350-0022 | 1 |
| TRANSPAD | MG. 6977087-1 | 375-9001 | 1 |

| COMPONENT | SIZE, TYPE | W.L. NO. | QTY. |
|---|---|---|---|
| R1,2,3 | 150Ω ¼W | 330-2015 | 3 |
| R4,6,7 | 470Ω ¼W | 330-2041 | 3 |
| R5 | 270Ω ¼W | 330-2027 | 1 |
| R8 | 47Ω ½W | 331-1047 | 1 |
| R9 | 56Ω ½W | 331-1056 | 1 |
| R10,11,12,15,16,23 | 4.7K ¼W | 330-3047 | 6 |
| R13,18,19,20,22 | 10K ¼W | 330-4010 | 5 |
| R14,24 | 390Ω ¼W | 330-2039 | 2 |
| R17 | 6.8K ¼W | 330-3068 | 1 |
| R21,30 | 2.2K ¼W | 330-3022 | 2 |
| R25,26,27,28,29 | 15K ¼W | 330-9015 | 5 |
| C1 | .0047μF 500V | 300-1910 | 1 |
| C2 | 680μμF CER. | 300-1680 | 1 |
| C3,9,10 | 100μμF CER. | 300-1100 | 3 |
| C5 | 220μμF CER. | 300-1220 | 1 |
| C6 | .001μF 200V | 300-1906 | 1 |
| C7,8 | 47μμF CER. | 300-1047 | 2 |
| C9 | 470μμF CER. | 300-1470 | 1 |

| I.C. LOCATION | TYPE | W.L.NO. | TERM FOR GND | TERM FOR VCC +5VR | QTY. |
|---|---|---|---|---|---|
| L1 | SN7413N | 376-0031 | 7 | 14 | 1 |
| L2 | SN7402N | 376-0016 | 7 | 14 | 1 |
| L3,35,39 | F9602 | 376-0104 | 8 | 16 | 3 |
| L4,10,27,32,40 | SN7400N | 376-0002 | 7 | 14 | 5 |
| L5,6,9,28,31,34,35 | SN7493N | 376-0011 | 10 | 5 | 7 |
| L7,12,13 | SN7420N | 376-0004 | 7 | 14 | 3 |
| L8 | SN7490N | 376-0073 | 10 | 5 | 1 |
| L11 | SN7403N | 376-0028 | 7 | 14 | 1 |
| L14,24,44 | SN7410N | 376-0003 | 7 | 14 | 3 |
| L15 | F9314 | 376-0108 | 8 | 16 | 1 |
| L16,19,22,26,41 | SN7404N | 376-0010 | 7 | 14 | 5 |
| L17,21,36 | F9314 | 376-0120 | 8 | 16 | 3 |
| L18,20,32 | SN74193N | 376-0053 | 8 | 16 | 3 |
| L23 | SN74S1N | 376-0012 | 7 | 14 | 1 |
| L29,33 | SN74S15N | 376-0082 | 8 | 16 | 2 |
| L30 | 8242 | 376-0040 | 7 | 14 | 1 |
| L37 | SWITCH | 325-1501 | 4,7,8,9,10 | | 1 |
| L42,43 | SN74S5N | 376-0089 | 8 | 16 | 2 |
| L45,46 | SN7415N | 376-0119 | 12 | 5 | 2 |

| J1 | |
|---|---|
| CHA GND. | A1 |
| +5VR | B1 |
| ±0V | C1 |
| ENBL B6 | D1 |
| B0C | E1 |
| W BUSY | F1 |
| "D" | H1 |
| A9 | J1 |
| A8 | K1 |
| A7 | L1 |
| A6 | M1 |
| A5 | N1 |
| A4 | P1 |
| A3 | R1 |
| A2 | S1 |
| A1 | T1 |
| A0 | U1 |
| ENBL WP | V1 |
| RESET ROW DISP. | W1 |
| A0 | X1 |
| A1 | Y1 |
| A2 | Z1 |
| A3 | a1 |
| DATA STRB | b1 |
| B4 | c1 |
| B5 | d1 |
| ETX | e1 |
| B1 | f1 |
| +5VR | g1 |
| ±0V | h1 |

| WANG PART NO | ITEM | QTY | NAME |
|---|---|---|---|
| | | | |

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

MODEL NO. 2216

TITLE BLOCK CIRCUIT DIAGRAM #6350 C.R.T. CONTROL

| MATERIAL | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| | DWN F.S.S. | 6-27-71 | E ENGR | |
| | CHK | | M ENGR | |
| | E.C. CONTROL | | MFG ENGR | |

E 6350-1

SCALE | SHT | OF | WANG PART NUMBER | SIZE | DRAWING NUMBER | REV

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DO NOT SCALE

DATA STRB — READ STROBE

SERIAL DATA

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

HOLE LEGEND

| DRILLED OR PUNCHED HOLE | HOLE DIA. | TOL. |
|---|---|---|
| TOLERANCES: | 0135 to 125 | ± .005 |
| | 124 to 250 | ± .003 |
| | 251 to 500 | ± .005 |

| IDENT | DESCRIPTION | QTY. |
|---|---|---|
| A | | |

CONN. 1

| | | | | | |
|---|---|---|---|---|---|
| +5VR | A | 1 | | | |
| ±0V | B | 2 | | | |
| $\overline{AB_1}$ | C | 3 | | | |
| $\overline{AB_4}$ | D | 4 | | | |
| $\overline{AB_5}$ | E | 5 | $\overline{AB_2}$ | F | 6 |
| $\overline{OB_5}$ | H | 7 | $\overline{AB_3}$ | J | 8 |
| $\overline{AB_5}$ | K | 9 | | | |

CONN. 2

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

CONN. 3

| | | | | | |
|---|---|---|---|---|---|
| $\overline{OB_1}$ | A | 1 | | | |
| $\overline{OB_2}$ | B | 2 | | | |
| $\overline{OB_3}$ | C | 3 | | | |
| $\overline{OB_4}$ | D | 4 | | | |
| $\overline{OB_8}$ | E | 5 | | | |
| $\overline{OB_7}$ | F | 6 | $\overline{AB_4}$ | H | 7 |
| $\overline{OB_6}$ | J | 8 | $\overline{AB_5}$ | K | 9 |
| $\overline{OB_5}$ | L | 10 | $\overline{AB_8}$ | M | 11 |
| $\overline{RB}$ | N | 12 | | | |
| CHA.GND. | P | 13 | -12V | R | 14 |
| | S | 15 | ±0V | T | 16 |
| +12V | U | 17 | +5VR | V | 18 |
| COMP SIDE | | | WIRING SIDE | | |

| COMPONENT | SIZE, TYPE | W.L. NO. | QTY. |
|---|---|---|---|
| R1 | 100 Ω, ¼ W | 330-2010 | 1 |
| R2,3,4 | 150 Ω, ¼W | 330-2015 | 3 |
| R5,7,8 | 470 Ω, ¼W | 330-2047 | 3 |
| R6 | 270 Ω, ¼W | 330-2027 | 1 |
| R9 | 47 Ω, ½ W | 331-1047 | 1 |
| R10 | 56 Ω, ½ W | 331-1056 | 1 |
| R11,12,13,14,16,17,18, 19,20,21,22,23,24, 27,28,34 | 4.7K ¼ W | 330-3047 | 15 |
| R14,25,30,31,33 | 10K ¼ W | 330-4010 | 5 |
| R15 | 6.8K ¼W | 330-3068 | 1 |
| R26,35 | 390 Ω, ¼W | 330-2039 | 2 |
| R29,32,36 | 2.2K ¼W | 330-3022 | 3 |
| R37 | 18K ¼W | 330-4018 | 1 |
| R38 | 39K | 330-4039 | 1 |
| C1 | .0015μF 100V | 300-2015 | 1 |
| C2 | 680μμF CER | 300-1680 | 1 |
| C3,4,11 | 100μμF CER. | 300-1100 | 3 |
| C5 | 470μμF 200V 5% | 300-3005 | 1 |
| C6 | .001μF 200V | 300-1906 | 1 |
| C7 | 220μμF CER. | 300-1230 | 1 |
| C8,9 | 47μμF CER. | 300-1047 | 2 |
| C10 | 470μμF CER. | 300-1470 | 1 |
| C12 | 18μF 15V TA. | 300-4018 | 1 |
| C13 | .047μF 100V | 300-2168 | 1 |
| C14 | 120μF 15V TA. | 300-4031 | 1 |
| C15,16,17,18,19,20, 21,22 | .01μF 25V | 300-1903 | 8 |
| C23,24 | 15μF 20V TA. | 300-4022 | 2 |
| Q1 | 2N5189 SIL. | 375-1021 | 1 |
| U1 | SYP 2550M/ 325-2557/-1SE | 350-0022 | 1 |
| TRANSIPAD | LC.0971807-1 | 375-9001 | 1 |
| 8 BANK SW. COVER | W.L.# 325-1503 | 325-9047 | 1 |

| I.C. LOCATION | TYPE | W.L. NO. | TERM FOR ±0V | TERM FOR VCC +5VR | QTY. |
|---|---|---|---|---|---|
| L1 | SN7430N | 376-0031 | 7 | 14 | 1 |
| L2 | SN7402N | 376-0016 | 7 | 14 | 1 |
| L3,25,26,42 | F9602 | 376-0109 | 8 | 16 | 4 |
| L4,10,28,43 | SN7400N | 376-0002 | 7 | 14 | 4 |
| L5,6,9,29,32,35,36 | SN7493N | 376-0011 | 10 | 5 | 7 |
| L7,12,13 | SN7420N | 376-0004 | 7 | 14 | 3 |
| L8 | SN7490N | 376-0073 | 10 | 5 | 1 |
| L11 | SN7403N | 376-0028 | 7 | 14 | 1 |
| L14,24,47 | SN7410N | 376-0003 | 7 | 14 | 3 |
| L15 | F93L4 | 376-0108 | 8 | 16 | 1 |
| L16,17,22,27,44 | SN7404N | 376-0010 | 7 | 14 | 5 |
| L18,21 | F93L24 | 376-0120 | 8 | 16 | 2 |
| L19,20,33 | SN74193N | 376-0053 | 8 | 16 | 3 |
| L23 | SN7451N | 376-0012 | 7 | 14 | 1 |
| L30,34 | SN76155TN | 376-0082 | 8 | 16 | 2 |
| L31,39,41 | SN74LS266N | 376-0148 | 7 | 14 | 3 |
| L37 | MHB0225C | 376-0178 | 3 | 6 | 1 |
| L38 | SN7474N | 376-0006 | 7 | 14 | 1 |
| L40 | RKR. SW. | 325-1503 | | | 1 |
| L45,46 | SN76155N | 376-0049 | 8 | 16 | 2 |
| L48,49 | SN74LS74N | 376-0151 | 12 | 5 | 2 |

J1

| | | | | | |
|---|---|---|---|---|---|
| B0 | A | 1 | | | CHA.GND. |
| SET ROW DISPLAY | B | 2 | | | +5VR |
| NS | C | 3 | | | ±0V |
| WRITE ENBL | D | 4 | | | ENBL B6 |
| VB | E | 5 | | | B0C |
| ENBL CURSOR | F | 6 | | | W BUSY |
| READ STROBE | H | 7 | | | "D" |
| $A_9$ | J | 8 | | | MB |
| $A_8$ | K | 9 | | | $A_8$ |
| $A_7$ | L | 10 | | | $A_7$ |
| $A_6$ | M | 11 | | | $A_6$ |
| SERIAL DATA | N | 12 | | | ENBL WP |
| $A_5$ | P | 13 | | | RESET ROW DISPL |
| $A_4$ | R | 14 | | | $A_4$ |
| $A_3$ | S | 15 | | | $A_3$ |
| STEP DISPLAY CTR | T | 16 | | | DATA STRB |
| B3 | U | 17 | | | B4 |
| B7 | V | 18 | | | B5 |
| B6 | W | 19 | | | ETX |
| B2 | X | 20 | | | B1 |
| LOAD S/R | Y | 21 | | | +5VR |
| +12VR | Z | 22 | | | ±0V |
| -12VR | a | 23 | | | |

COMPONENT LAYOUT 6350A

6350A XO

J1 MTD. REAR SIDE

SRPNMLKJHFEDCBA 3333333333333

SRPNMLKJHFEDCBA 2222222222222

SRPNMLKJHFEDCBA 1111111111111

| WANG PART NO | ITEM | QTY | NAME |
|---|---|---|---|
| | | | |

| Div. No. | FIRST USED ON | ASSY USED ON |
|---|---|---|
| | | |

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

MATERIAL

FINISH

MODEL NO. 2216

SEE ENGNG SPECIFICATIONS No.

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

SCALE — SHT 1 OF 1

| MATERIAL | DESCRIPTION |
|---|---|

| BY | DATE | APPROVED BY | DATE |
|---|---|---|---|
| DWN F.S.S. | 9-20-71 | E ENGR | 12-4-73 |
| CHK | | M ENGR | |
| E.C. CONTROL | | MFG ENGR | |

TITLE: BLOCK CIRCUIT DIAGRAM 6350A C.R.T. CONTROL

WANG PART NUMBER: E 6350A-1 | SIZE | DRAWING NUMBER: 1 | REV.

| REVISION | BY | DATE |
|---|---|---|
| 1 | REVISED PER ECO 3375 | 11/6/73 |

E 6350A-1

DO NOT SCALE

SPARE GATES

COMPONENT LAYOUT

| LOCATION | TERM. NO. ±0V | TERM. NO. Vcc +5V |
|---|---|---|
| L1, 8, 9 | 7 | 14 |
| L2-7 | | |
| L10, 11 | 8 | 16 |
| L12-15, 17 | 7 | 14 |
| L18-21 | 7 | 14 |
| L16 | 8 | 16 |
| L22 | 8 | 16 |
| L23 | 7 | 14 |

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

CONN.1: +5V, ±0V, A4, Ā6, Ā1, Ā3, Ā0, DO15; Ā7, Ā8, Ā9, Ā5, Ā2, Ā10, Ā4, DO11, DO10, DO9, DO8, DO7, DO6, DO5, DO4

CONN.2: DO14, DO13, DO12, DO3

CONN.3: RESET A3, A1; MOT F3, F1; DO2, DO1, DO0, -12V, +12V, STI-3, ±0V, +5V

COMP. SIDE / WIRING SIDE

FEB - 5 1975

| REV | REVISION | BY | DATE | APP'D |
|---|---|---|---|---|
| 6 | REVISED PER ECN 4096 | BK | 3-19-74 | J.N. |
| 5 | CHANGED PER ECN-4130 & 4130A | BK | 5-20-74 | J.N. |
| 4 | CHANGED PER RFA -0329 | BK | 5-20-74 | J.N. |
| 3 | REVISED PER ECN-4279 | BK | 6-7-74 | J.N. |
| 2 | REVISED PER DCR 0292 | BK | 11-19-74 | J.N. |
| 1 | REVISED PER RFA # 1185 | BK | 11-27-74 | J.N. |

WLI # 210-6361

WANG LABORATORIES INC.
TEWKSBURY, MASS.

| MODEL NO. | DRAWN | DATE | APP. | DATE |
|---|---|---|---|---|
| 2200 | BK | 5-21-74 | | 7-13-74 |
| | CHECKED | 11-25-74 | APP. | |

TITLE: SCHEMATIC LOGIBLOC # 6361
8 BIT ROM BOARD

SHT 4 OF 5 | DWG. NO. D 6361 | REV 6

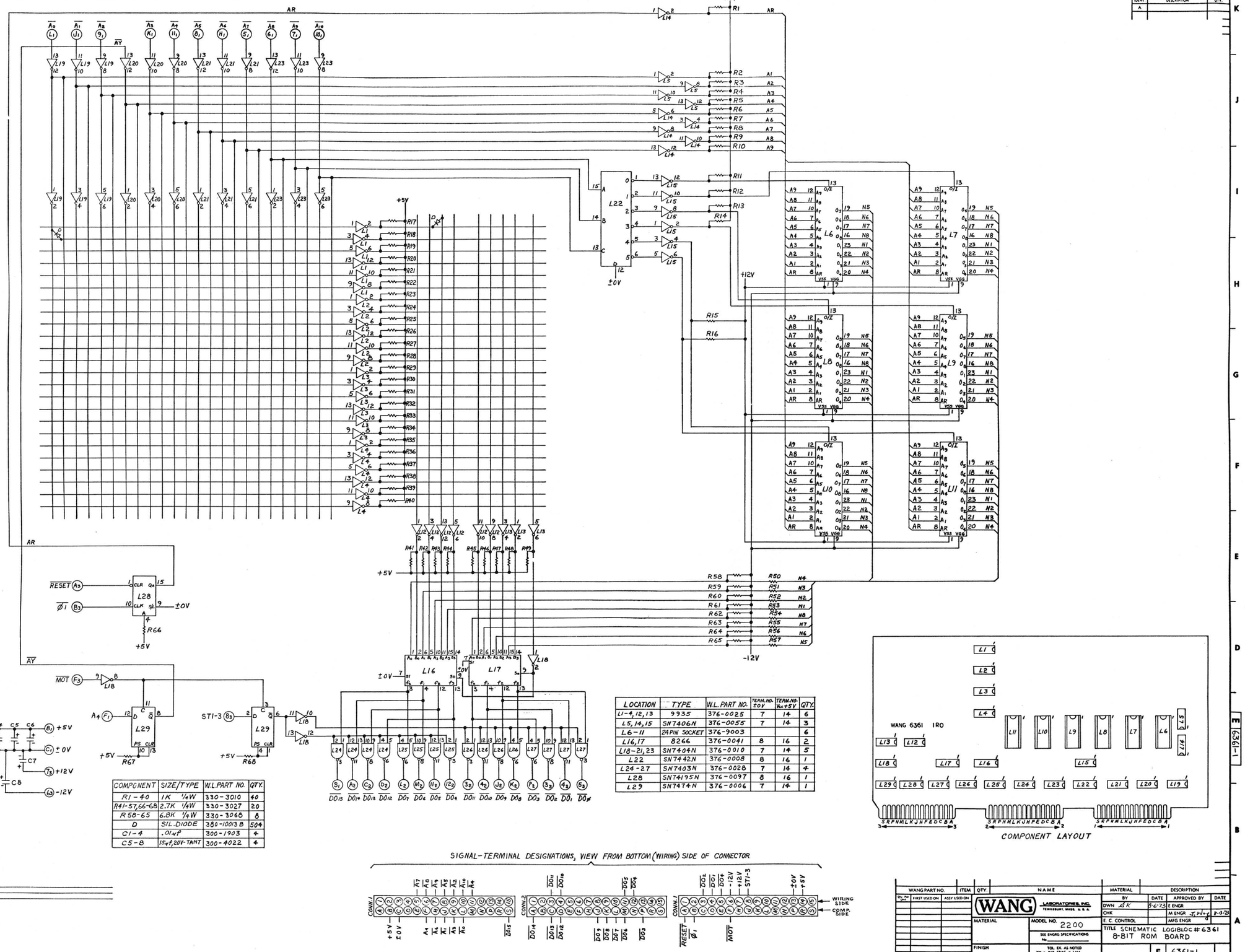
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DO NOT SCALE

HOLE LEGEND

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

| IDENT | DESCRIPTION | QTY. |
|---|---|---|
| A | | |




| LOCATION | TYPE | W.L. PART NO. | TERM. NO. ±0V | TERM. NO. +5V | QTY. |
|---|---|---|---|---|---|
| L1-4, 12, 13 | 9335 | 376-0025 | 7 | 14 | 6 |
| L5, 14, 15 | SN7406N | 376-0055 | 7 | 14 | 3 |
| L6-11 | 24PIN SOCKET | 376-9003 | | | 6 |
| L16, 17 | 8266 | 376-0041 | 8 | 16 | 2 |
| L18-21, 23 | SN7404N | 376-0010 | 7 | 14 | 5 |
| L22 | SN7442N | 376-0008 | 8 | 16 | 1 |
| L24-27 | SN7403N | 376-0028 | 7 | 14 | 4 |
| L28 | SN74195N | 376-0097 | 8 | 16 | 1 |
| L29 | SN7474N | 376-0006 | 7 | 14 | 1 |

| COMPONENT | SIZE/TYPE | W.L. PART NO. | QTY. |
|---|---|---|---|
| R1-40 | 1K 1/4W | 330-3010 | 40 |
| R41-57, 66-68 | 2.7K 1/4W | 330-3027 | 20 |
| R58-65 | 6.8K 1/4W | 330-3068 | 8 |
| D | SIL. DIODE | 380-10013B | 504 |
| C1-4 | .01 μF | 300-1903 | 4 |
| C5-8 | 15 μF, 20V-TANT | 300-4022 | 4 |




COMPONENT LAYOUT

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




| REVISION | BY | DATE |
|---|---|---|
| | | |

| WANG PART NO. | ITEM | QTY. | NAME | MATERIAL |
|---|---|---|---|---|
| | | | WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A. | |
| | | | MODEL NO. 2200 | |
| | | | SEE ENGRG SPECIFICATIONS No. | |
| | | | FINISH | |
| | | | TOL. EX. AS NOTED .XX ± .015 FRAC ± 1/64 .XXX ± .005 ANG ± 1°30' FINISH | SCALE SHT OF |

| DESCRIPTION | | | |
|---|---|---|---|
| BY | DATE | APPROVED BY | DATE |
| DWN JK | 9-6-73 | E ENGR | |
| CHK | | M ENGR JH | 9-13-73 |
| E.C. CONTROL | | MFG ENGR | |

TITLE SCHEMATIC LOGIBLOC # 6361
8-BIT ROM BOARD

| WANG PART NUMBER | SIZE | DRAWING NUMBER | REV. |
|---|---|---|---|
| | E | 6361-1 | |

6361-1 E

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DO NOT SCALE

J1 CHASSIS

AA – CHASSIS GND
BA – TRANSMITTED DATA
BA – RECIVED DATA
CC – DATA SET READY
CF – CARRIER DET.
CB – CLEAR TO SEND
CD – DATA TRANSMIT READY
AB – SIGNAL GND
CA – REQUEST TO SEND

SE OPTION CHART

BAUD RATE 110 150 300 600 1200

HOLE LEGEND

| DRILLED ON PUNCHED HOLE TOLERANCES | HOLE DIA | TOL |
|---|---|---|
| | .0135 to .035 | ±.003 |
| | .036 to .060 | ±.004 |
| | .061 to .100 | ±.005 |

| IDENT | DESCRIPTION | QTY |
|---|---|---|

| LOCATION | TYPE | W.L. NO. | ITEM NO. +10V | +5V | +12V | QTY |
|---|---|---|---|---|---|---|
| L1 | SN75154N | 376-0077 | 9 | 15 | 6 | 1 |
| L2 | SN75150P | 376-0076 | 4 | — | — | 1 |
| L3,5,20,22,31,34,37,41 | SN7404N | 376-0010 | 7 | — | 14 | 8 |
| L4 | SN7408N | 376-0030 | 7 | 14 | 1 | 1 |
| L6,7 | SN7406N | 376-0055 | 7 | 14 | 2 | 2 |
| L8 | 9602 | 376-0104 | 8 | 16 | 1 | 1 |
| L9,18 | SN7401N | 376-0003 | 7 | 14 | 4 | 2 |
| L10,21,23 | SN7493N | 376-0011 | 10 | 5 | 3 | 3 |
| L11 | SN74220N | 376-0090 | 7 | 16 | 1 | 1 |
| L12,19 | SN7407N | 376-0056 | 7 | 16 | 2 | 2 |
| L13,30,35A | SN7474N | 376-0006 | 7 | 14 | 3 | 3 |
| L14 | SN74200N | 376-0092 | 7 | 16 | 1 | 1 |
| L16 | 9602 | 376-0132 | 8 | 16 | 1 | 1 |
| L29,32,40 | ROCKER SW. | 325-1503 | — | — | — | 3 |
| L24,25,33,36 | 2114-4 | 376-0120 | 8 | 16 | 4 | 4 |
| L26,27,38 | SN7403N | 376-0028 | 7 | 14 | 3 | 3 |
| L39 | UART | 377-0077 | 5 | 1 | 1 | 1 |
| L28,39 | SN75115 | 376-0118 | 7 | 14 | 2 | 2 |
| L/A | PROGRAM PC.B. | 376-9762 | | | | 1 |

| COMPONENT | SIZE/TYPE | W.L. NO. | QTY |
|---|---|---|---|
| R2,3,4,5,6,7,8,9,10,11,12,13,14,15, 16, 22,23,17, 40,41,42,44 46, 45,43,48,49, 47,47 | 6.7K | 1/8 W 330-3047 | 30 |
| R18,39,50,11 | 1K | 1/4 W 330-3070 | 4 |
| R19,38,20,26,58 81 | 2.2K | 1/4 W 330-3023 | 5 |
| R30,81 | 470Ω | 1/4 W 330-2047 | 2 |
| R35 | 1.5K | 1/4 W 330-6015 | 1 |
| R 35,36 | 33K | 1/4 W 330-4033 | 2 |
| R21,28,29,30,31 | 10K | 1/4 W 330-4010 | 5 |
| R52 | 390Ω | 1/4 W 330-2039 | 1 |
| R56 | 100K | 1/4 W 330-5010 | 1 |
| R59 | 68K | 1/4 W 330-4068 | 1 |
| C82,83 | 1.2K | 1/4 W 330-3012 | 2 |
| C31 | .001uF CER | 300-1913 | 1 |
| C28 | .033uF CER | 300-1919 | 1 |
| C1,12,13,14,15,16,17 | .01uF CER | 300-1923 | 8 |
| C2 | .001uF MYLAR | 300-2013 | 1 |
| C4,7 | 470pF MICA | 300-5022 | 2 |
| C5 | 1000pF MICA | 300-5006 | 1 |
| C9 | 15uF TANT | 300-4028 | 1 |
| C10,18,12,20 | 10uF 10V TANT | 300-4018 | 4 |
| C8 | 2.2uF, TANT | 300-4023 | 1 |
| XTAL | 4.0MHz | 327-0011 | 1 |
| T1 | TELTRON C-CKT | 376-9062 | 1 |
| U1 | 28 PIN CONN | 328-1257 | 1 |
| | 40 PIN SOCKET | 376-9011 | 1 |
| ROCKER SWITCH COVER | BRACE CAP | 325-9041 | 3 |
| SW1,2,3,4,9,5 | TOGGLE DPDT SW | 325-2253 | 1 |
| SW6 | MOMENTARY SW | 325-2210 | 1 |
| SW8,9,10,11,12 | PUSH-PUSH SW | 325-2222 | 1 |

| REVISION | DATE | CHECKED |
|---|---|---|
| REVISED PER ECO 6015, 9/26, ADDED 6015, 9/26, ADDED 6015, 9/26, ADDED | | |

| WANG PART NO | ITEM | QTY | NAME |
|---|---|---|---|
| PART USED ON | ASSY USED ON | | |

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

MATERIAL

FINISH

MODEL NO. 2227

SEE ENGNG SPECIFICATIONS No.

TOL. EX AS NOTED
XX ± .010 FRAC ± 1/64
XXX ± .005 ANG. ± 1/2° FINISH

SCALE SHT OF

| MATERIAL | DESCRIPTION |
|---|---|
| BY | DATE APPROVED BY |
| DWN | ENGR |
| CHK | ENGR |
| E.C. CONTROL | MFG'R'S |

TITLE SCHEMATIC LOGIBLOC 6362 TELECOMMUNICATIONS CONTROLLER

WANG PART NUMBER 2227 SIZE E DRAWING NUMBER 6362-10,12 REV. 1

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

CONN. 1: +5VR, +10V, AB1, AB4, AB5, OBS, ABS, HALT, IB7, IB8, IB5, IB6, IB4, IB2, CB, CC, AB, CF

CONN. 2

CONN. 3: OB1, OB2, OB3, OB4, OB8, OB7, OB6, OB5, RB, CH. GND, -12V, ±6V, +5VR, +12V, COMP

WIRING SIDE

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DO NOT SCALE

J1 CHASSIS

AA – CHASSIS GND
BA – TRANSMITTED DATA
BA – RECEIVED DATA
CB – CLEAR TO SEND
CC – DATA SET READY
CF – CARRIER DET.
CD – DATA TERMINAL READY
AB – SIGNAL GND
CA – REQ TO SEND

DOT LINES = JUMPERS

SEE NOTE

BAUD RATE: 100 · 150 · 300 · 600 · 1200

HOLE LEGEND

| DRILLED OR PUNCHED HOLE | HOLE DIA. | TOL. |
|---|---|---|
| TOLERANCES | .0135 to .125 | ± .002 |
| | .126 to .250 | ± .003 |
| | .251 to .500 | ± .005 |

| SIGHT | DESCRIPTION | QTY |
|---|---|---|

J1: AA CH. GND · BA · BB · CB · CC · AB 10V · CF · +12V · -12V · CD

| LOCATION | TYPE | W.L. NO. | TERM. NO. 10V | TERM. NO. +5V | QTY |
|---|---|---|---|---|---|
| L1 | SN75154N | 326-0077 | 8 | 15 | 1 |
| L2 | SN75155N | 326-0076 | 4 | | 1 |
| L3,5,20,21,36,37,41 | SN7404N | 326-0810 | 7 | 14 | 8 |
| L4 | SN7408N | 326-0081 | 7 | 14 | 1 |
| L9, 19 | 7502 | 326-0104 | 8 | 16 | 2 |
| L9, 15 | SN7415N | 326-0007 | 7 | 14 | 2 |
| L10, 21, 22 | SN7931N | 326-0011 | 10 | 5 | 3 |
| L11 | SN7420N | 326-0008 | 7 | 14 | 1 |
| L12, 13 | SN7475N | 326-0015 | 7 | 14 | 2 |
| L13 | SN7470N | 326-0062 | 7 | 14 | 1 |
| L14 | SN7400N | 326-0002 | 7 | 14 | 1 |
| L16 | 9602 | 326-0123 | 8 | 16 | 1 |
| L18 | SN7430N | 326-0231 | 7 | 14 | 1 |
| L23,32 | AM2148 1K | 325-1703 | — | — | 2 |
| L24,25,33,34 | 9312 | 326-0120 | 8 | 16 | 4 |
| L26,27,35 | SN7803N | 326-0028 | 7 | 16 | 3 |
| L29 | VARIES | 727-0077 | 3 | 1 | 1 |

| COMPONENT | SIZE/TYPE | W.L. NO. | QTY |
|---|---|---|---|
| R1,2,3,4,5,6,7,8,9,10,11,12,13,14, 16, 23,25,33,38,41 55,57 | 6.1K ¼w | 330-3047 | 23 |
| R15,39,58,17 | 1K ¼w | 330-3010 | 4 |
| R19,36,42 | 2.2K ¼w | 330-3022 | 3 |
| R20,21 | 470Ω ¼w | 330-2093 | 2 |
| R22,59 | 100Ω ½w | 353-0510 | 2 |
| R29, 35, 36, 40 | 33K ¼w | 330-4033 | 4 |
| R27,28,29,30,31 | 10K ¼w | 330-4010 | 5 |
| R45 | 390Ω ¼w | 330-2039 | 1 |
| R38 | CER ½w | 330-4068 | 1 |
| R43,53 | 1KΩ ¼w | 330-3010 | 2 |
| C21 | .002 MF CER | 301-1813 | 1 |
| C22 | .0022 MF CER | 301-1716 | 1 |
| C7,16,18,19,1.6,15,14,17 | .01 MF CER | 300-1903 | 8 |
| C3,5,6,7 | 6-150 PF MICA | 300-5007 | 4 |
| C4 | 1000 PF MICA | 300-5003 | 1 |
| C9 | 15 MF TANT | 323- | 1 |
| C11,10,19,20 | 10 MF 25V TANT | 320-4022 | 4 |
| D1,2 | DIODE SIL | 327-1001 | 2 |
| XTAL | 4.0 MHz | 321-0011 | 1 |
| J1 | 25 PIN CONN | 328-1031 | 1 |
| | 15 PIN SOCKET | 174-2011 | 1 |
| ROCKER SWITCH COVER | PLASTIC CAP | 322-9061 | 2 |
| SW2 | 1 POLE PB SW. | 325-2224 | 1 |
| SW1, 2, 3, 4, 5 | INTERLOCK SW. | 325-2223 | 1 |

← SEE NOTE

NOTE:

| MODEL | VARIATION |
|---|---|
| 2207 | JUMPER 110 BAUD (SWITCH 1) DO NOT LOAD INTERLOCK SW. 325-2223 |
| 2207A | LOAD INTERLOCK SW AT LOCATION SW1 THRU SW5 |

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

CONN. 1: +5V · 10V · AB1 · AB4 · AB2 · OBS · ABS · HALT · IB7 · IB6 · IB5 · IB4 · IB3 · IB2 · IB1 · IB0 · RB

CONN. 2: AA · BA · BB · CB · CC · AB · CF · CA · CD

CONN. 3: OB1 · OB2 · OB3 · OB4 · OB5 · OB6 · OB7 · OBP · RB · CH. GND · +12V · -12V · ±10V · +5V

COMP. SIDE · WIRING SIDE

| REVISION | INT | DWN |
|---|---|---|
| ADDED PCA 6362-1 AND 6362-2 | 11-5-76 | E.W.S. |
| REVISED PCA 6362-1 AND 6362-2 | 12-11-76 | E.W.S. |

| 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 JPO | 7-21-76 / E ENGR / 12-1-76 |
| | | | | CHK | M ENGR |
| | | | MODEL NO. 2207/2207A | E. C. CONTROL | MFG ENGR |
| | | | SEE ENGR SPECIFICATIONS No. | TITLE SCHEMATIC, LOGIBLOC 6362-1 TELECOMMUNICATIONS CONTROLLER | |
| | | | FINISH | TOL. EX. AS NOTED .XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1°30' | E 6362-11,13 2 |
| | | | SCALE | SHT OF | WANG PART NUMBER / SIZE / DRAWING NUMBER / REV |

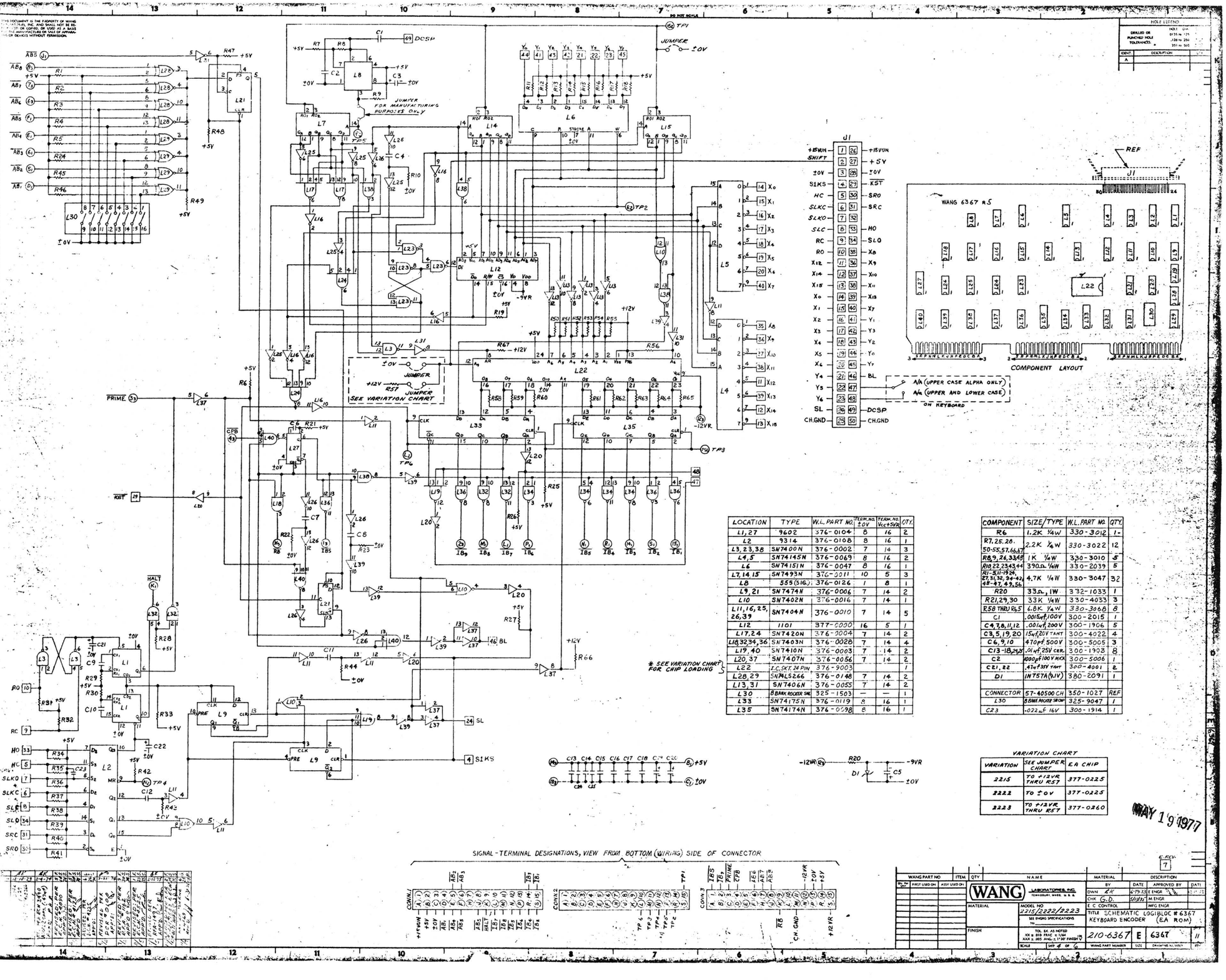
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DO NOT SCALE

HOLE LEGEND

| DRILLED OR PUNCHED HOLE TOLERANCES | INCH | DIA |
|---|---|---|
| | .015 to .125 | ± .004 |
| | .126 to .250 | ± .006 |
| | .251 to .500 | ± .008 |

| IDENT. | DESCRIPTION | DATE |
|---|---|---|
| A | | |




| LOCATION | TYPE | W.L. PART NO. | TERM. NO. ±0V | TERM. NO. Vcc+5V | QTY. |
|---|---|---|---|---|---|
| L1, 27 | 9602 | 376-0104 | 8 | 16 | 2 |
| L2 | 9314 | 376-0108 | 8 | 16 | 1 |
| L3, 23, 38 | SN7400N | 376-0002 | 7 | 14 | 3 |
| L4, 5 | SN74145N | 376-0069 | 8 | 16 | 2 |
| L6 | SN74151N | 376-0047 | 8 | 16 | 1 |
| L7, 14, 15 | SN7493N | 376-0011 | 10 | 5 | 3 |
| L8 | 555 (516) | 376-0126 | 1 | 8 | 1 |
| L9, 21 | SN7474N | 376-0006 | 7 | 14 | 2 |
| L10 | SN7402N | 376-0016 | 7 | 14 | 1 |
| L11, 16, 25, 26, 39 | SN7404N | 376-0010 | 7 | 14 | 5 |
| L12 | 1101 | 377-0000 | 16 | 5 | 1 |
| L17, 24 | SN7420N | 376-0004 | 7 | 14 | 2 |
| L18, 32, 34, 36 | SN7403N | 376-0028 | 7 | 14 | 4 |
| L19, 40 | SN7410N | 376-0003 | 7 | 14 | 2 |
| L20, 37 | SN7407N | 376-0056 | 7 | 14 | 2 |
| L22 | I.C. SKT. 24 PIN | 376-9003 | | | 1 |
| L28, 29 | SN74LS266 | 376-0148 | 7 | 14 | 2 |
| L13, 31 | SN7406N | 376-0055 | 7 | 14 | 2 |
| L30 | 8 BANK ROCKER SW. | 325-1503 | — | — | 1 |
| L33 | SN74175N | 376-0119 | 8 | 16 | 1 |
| L35 | SN74174N | 376-0598 | 8 | 16 | 1 |

| COMPONENT | SIZE/TYPE | W.L. PART NO. | QTY. |
|---|---|---|---|
| R6 | 1.2K ¼W | 330-3012 | 1 |
| R7, 25, 28, 50-55, 57, 66-67 | 2.2K ¼W | 330-3022 | 12 |
| R8, 9, 24, 33-49 | 1K ¼W | 330-3010 | 5 |
| R10, 22, 23, 43, 44 | 390Ω ¼W | 330-2039 | 5 |
| R1-5, 11-19, 24, 27, 31, 32, 34-42, 45-47, 49, 56 | 4.7K ¼W | 330-3047 | 32 |
| R20 | 33Ω, 1W | 332-1033 | 1 |
| R21, 29, 30 | 33K ¼W | 330-4033 | 3 |
| R58 THRU R65 | 6.8K ¼W | 330-3068 | 8 |
| C1 | .0015μf, 100V | 300-2015 | 1 |
| C4, 7, 8, 11, 12 | .001μf, 200V | 300-1906 | 5 |
| C3, 5, 19, 20 | 15μf, 20V TANT | 300-4022 | 4 |
| C6, 9, 10 | 470pf, 500V | 300-5005 | 3 |
| C13-18, 24, 35 | .01μf, 25V CER. | 300-1903 | 8 |
| C2 | 1000pf, 100V MICA | 300-5006 | 1 |
| C21, 22 | .47μf, 35V TANT | 300-4001 | 2 |
| D1 | IN758A (9.1V) | 380-2091 | 1 |
| CONNECTOR | 57-40500 CH | 350-1027 | REF |
| L30 | 8 BANK ROCKER SW. | 325-9047 | 1 |
| C23 | .022μf 16V | 300-1914 | 1 |

VARIATION CHART

| VARIATION | SEE JUMPER CHART | EA CHIP |
|---|---|---|
| 2215 | TO +12VR THRU R57 | 377-0225 |
| 2222 | TO ±0V | 377-0225 |
| 2223 | TO +12VR THRU R57 | 377-0260 |

MAY 19 1977

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

| WANG PART NO | ITEM | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| Eff. Ref. / FIRST USED ON | ASSY USED ON | | | | |
| | | | WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A. | BY | DATE / APPROVED BY / DATE |
| | | | | DWN EK | 6/19/73 E ENGR |
| | | | | CHK G.D. | 10/1/75 M ENGR |
| MATERIAL | | | MODEL NO 2215/2222/2223 | E.C. CONTROL | MFG ENGR |
| | | | SEE ENGRG SPECIFICATIONS No. | TITLE SCHEMATIC LOGIBLOC # 6367 KEYBOARD ENCODER (EA ROM) | |
| FINISH | | | TOL. EX. AS NOTED XX ± .010 FRAC. ± 1/64 XXX ± .005 ANG. ± 1°30' FINISH | 210-6367 | E 6367 11 |
| SCALE | | | SHT. # OF # | WANG PART NUMBER | SIZE / DRAWING NO. (ONLY) / REV. |

E REV. 7

| LOCATION | TYPE | W.L.PART NO. | TERM.NO. Vcc +5V | TERM.NO. ±0V | QTY. |
|---|---|---|---|---|---|
| L2,3,4,5,12 | SN7400N | 376-0002 | 14 | 7 | 5 |
| | | | | | |
| L7 | SN7406N | 376-0055 | 14 | 7 | 1 |
| L8,9,10 | 9602 | 376-0104 | 16 | 8 | 3 |
| L6 | 9935 | 376-0025 | 14 | 7 | 1 |
| L19, LO | SN7474N | 376-0006 | 14 | 7 | 1 |
| L11 | SN7410N | 376-0003 | 14 | 7 | 1 |
| L20 | SN7403N | 376-0028 | 14 | 7 | 1 |
| L21,22 | SN7407N | 376-0056 | 14 | 7 | 2 |
| L1,14,18 | SN7404N | 376-0010 | 14 | 7 | 3 |
| L15,17 | SN74LS266 | 376-0148 | 14 | 7 | 2 |
| L13 | E.A.4274 | 377-0141 | | | 1 |

| COMPONENT | SIZE/TYPE | W.L.PART NO. | QTY |
|---|---|---|---|
| L16 | 8 BANK ROCKER SW. | 325-1503 | 1 |
| | | | |
| R16-21,29,34 | 220Ω ¼W | 330-2022 | 8 |
| R22 | 68K ¼W | 330-4068 | 1 |
| R27,30,35-42,44 | 4.7K ¼W | 330-3047 | 11 |
| R1-8 | 6.8K ¼W | 330-3068 | 8 |
| R26 | 390Ω ¼W | 330-2039 | 1 |
| R45-55 | 2.2K ¼W | 330-3022 | 11 |
| R9,43,33 | 1K ¼W | 330-3010 | 3 |
| | | | |
| R32 | 15K ¼W | 330-4015 | 1 |
| R23-25,31 | 12K ¼W | 330-4012 | 4 |
| | | | |
| C19-22 | 15μf,20V TANT | 300-4022 | 4 |
| C7 | 470pf | 300-1470 | 1 |
| C16-18 | .01μf,25V | 300-1903 | 3 |
| | | | |
| 8 BANK(L16) | ROCKER SW.CAP | 325-9047 | 1 |
| C8,23 | 1000pf,10KV,5% MICA | 300-5006 | 2 |
| D | SIL.DICODE | 380-1001 | 11 |
| CONNECTOR | 57-40240 | 350-1025 | 1 |
| I.C.SOCKET | 24 PIN | 376-9003 | 1 |
| C10-13 | 470pf,500V,5% MICA | 300-5005 | 4 |
| C14 | 220pf MICA | 300-5004 | 1 |

J1
R1 (7,13)
R2 (2,14)
R2A (3,15)
R5 (4,16)
T1 (5,17)
T2 (6,18)
STROBE (7,19)
RDY/BSY (8,20) — ±0V
(9,21)
(10,22)
±0V (11,23) — CH.GND
RELAY+ (12,24) — ±0V

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

CONN.1
+5VR (A,1)
±0V (B,2)
(C,3)
AB1 (D,4)
AB4 (E,5) — AB2
AB5 (F,6) — AB3
OBS (H,7)
ABS (J,8)
(K,9)
(L,10)
(M,11)
(N,12)
(P,13)
(R,14)
(S,15)

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

CONN.3
OB1 (A,1)
OB2 (B,2)
OB3 (C,3) — PRIME
OB4 (D,4)
OB8 (E,5)
OB7 (F,6) — AB6
OB6 (H,7) — AB7
OB5 (J,8) — AB8
RB (K,9)
(L,10)
CH.GND (M,11)
(N,12) — -12VR
(P,13) — ±0V
(R,14) — +5VR
+12V (S,15)
COMP-SIDE — WIRING SIDE

C21 (C1) ±0V
(9S) +12V
C22 (13S) ±0V
(12S) -12V
(14S) (B1) +5VR
(13S) (C1) ±0V
C16 C17 C18 C19 C20

J1
WANG 6368 R2
L13
L16 L15 L14 L12 L11 L10 L9 L8
L22 L21 L20 L19 L18 L17
COMPONENT LAYOUT

| REVISION | BY | DATE | NO. |
|---|---|---|---|
| REV. PER ECN 3974 APPD: | GK | 12-2-73 | 1 |
| REV. PER ECN 3942 APPD: | GP | 1-9-74 | 2 |
| REV PER ECN 4038 CHANGED VALUES OF C14 & R 32 APPD: | GK | 2-6-74 | 3 |
| REVISED PER E.C.A. #0741 APPD: | E.S.S. | 1-28-74 | 4A |
| REVISED PER E.C.A. #0807 & APPD | E.S.S. | 5-21-74 | 5A |
| REVISED PER ECN 4266 APPD: | GK | 8-5-74 | 6 |
| REVISED PER E.C.A. #1093 APPD | E.S.S. | 8-13-74 | 7 |
| REVISED PER ECN 4693 APPD: | GK | 3-18-75 | 8 |
| REVISED PER E.C.A. #1481 & ECN 4 APPD | RS | 5-13-76 | 9 |

E. REV. 4

MAY 19 1977

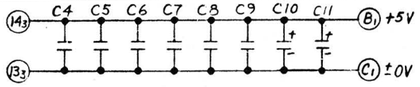
WANG LABORATORIES INC.
TEWKSBURY, MASS.

| MODEL NO. | DRAWN | APP. |
|---|---|---|
| 2201/2202 2232 | GK 8-30-73 | |
| CHECKED | GP | APP. 9-13-73 |

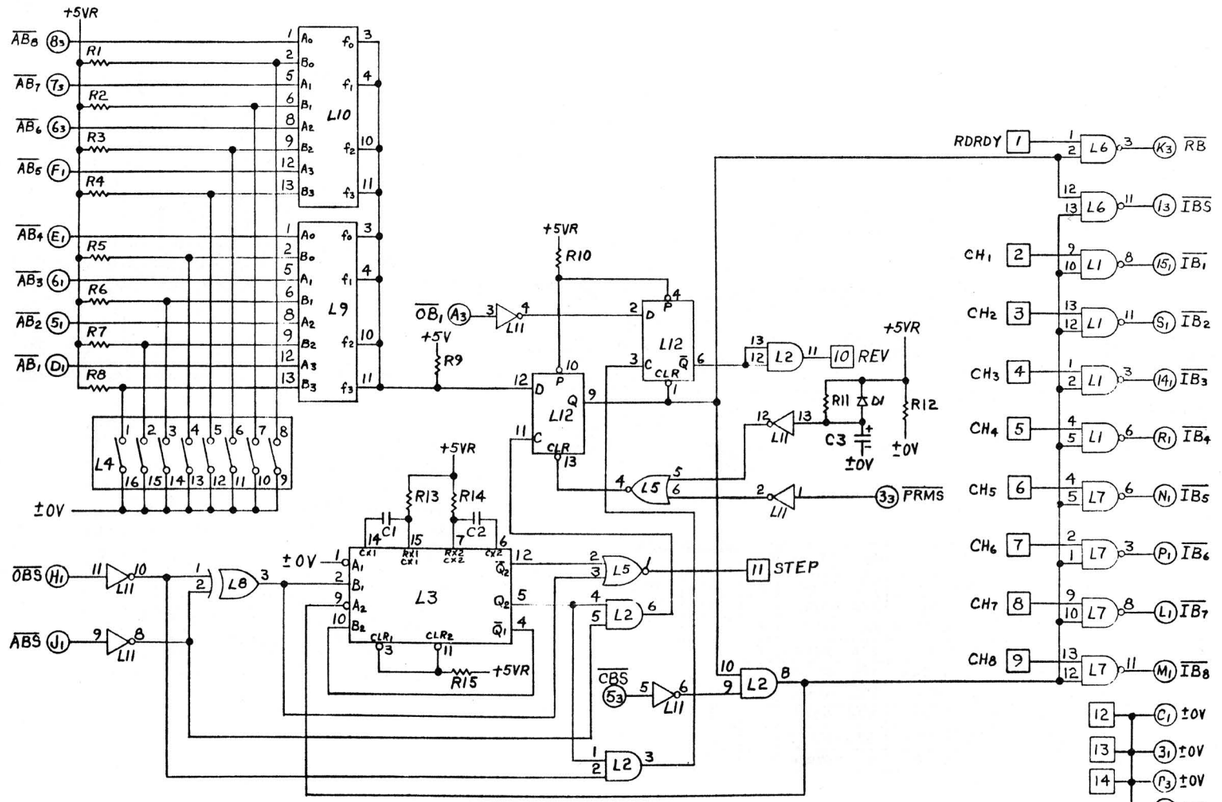
TITLE: SCHEMATIC LOGIBLOC FOR OUTPUT WRITER

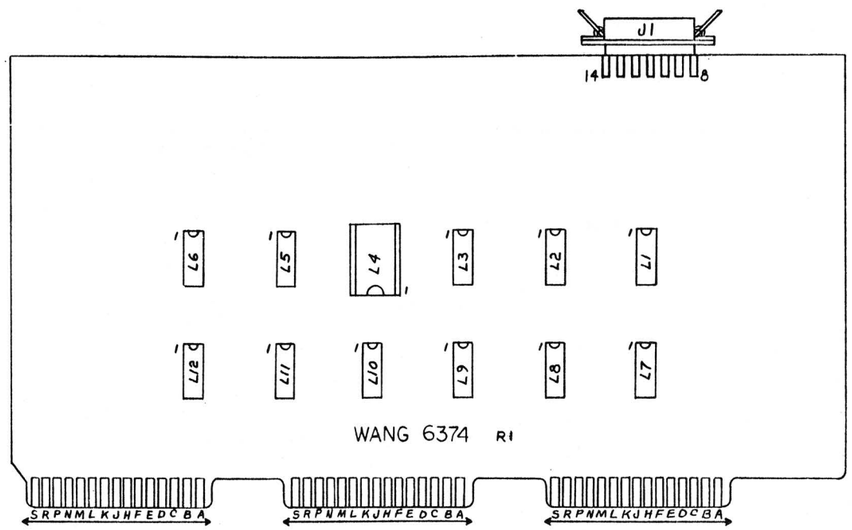
SHT 4 OF 8 | DWG. NO. D 6368 | REV. 8

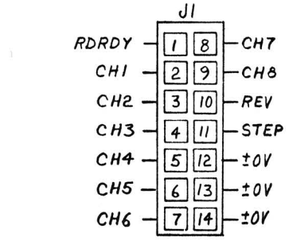
| COMPONENT | SIZE/TYPE | W.L. PART NO. | QTY |
|---|---|---|---|
| R1-8,10,11,15 | 4.7K 1/4W | 330-3047 | 11 |
| R9 | 1.5K 1/4W | 330-3015 | 1 |
| R12 | 180Ω 1/4W | 330-2018 | 1 |
| R13,14 | 10K 1/4W | 330-4010 | 2 |
| C1,2 | 220pf CER. | 300-1220 | 2 |
| C3 | 8.2 µf, 20V, TANT. | 300-4028 | 1 |
| C4-9 | .05 µf, 20V, TANT. | 300-1900 | 6 |
| C10,11 | 15 µf, 20V, TANT. | 300-4022 | 2 |
| ROCKER SW. COVER | EBY. ROCKER SW. CAP | 325-9047 | 1 |
| D1 | SIL. DIODE | 380-1001 | 1 |
| J1 | CONN. 14 PIN CH | 350-1024 | 1 |

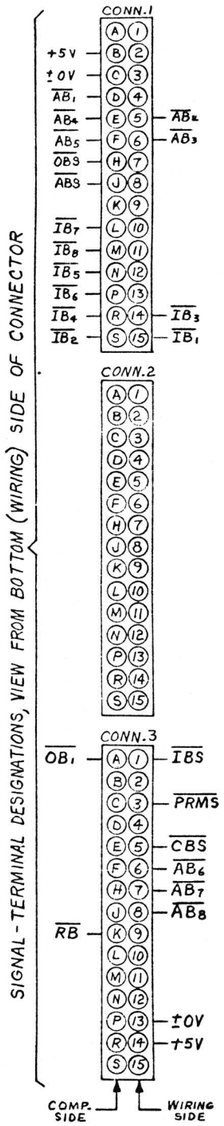



| LOCATION | TYPE | W.L. PART NO. | TERM NO. ±0V | TERM. NO Vcc+5V | QTY. |
|---|---|---|---|---|---|
| L1,6,7 | SN7403N | 376-0028 | 7 | 14 | 3 |
| L2 | SN7408N | 376-0081 | 7 | 14 | 1 |
| L3 | SN74123N | 376-0080 | 8 | 16 | 1 |
| L4 | 8 BANK ROCKER SW. | 325-1503 | | | 1 |
| L5 | SN7402N | 376-0016 | 7 | 14 | 1 |
| L8 | SN7486N | 376-0036 | 7 | 14 | 1 |
| L9,10 | SN74SL266 | 376-0148 | 7 | 14 | 2 |
| L11 | SN7414N | 376-0139 | 7 | 14 | 1 |
| L12 | SN7474N | 376-0006 | 7 | 14 | 1 |



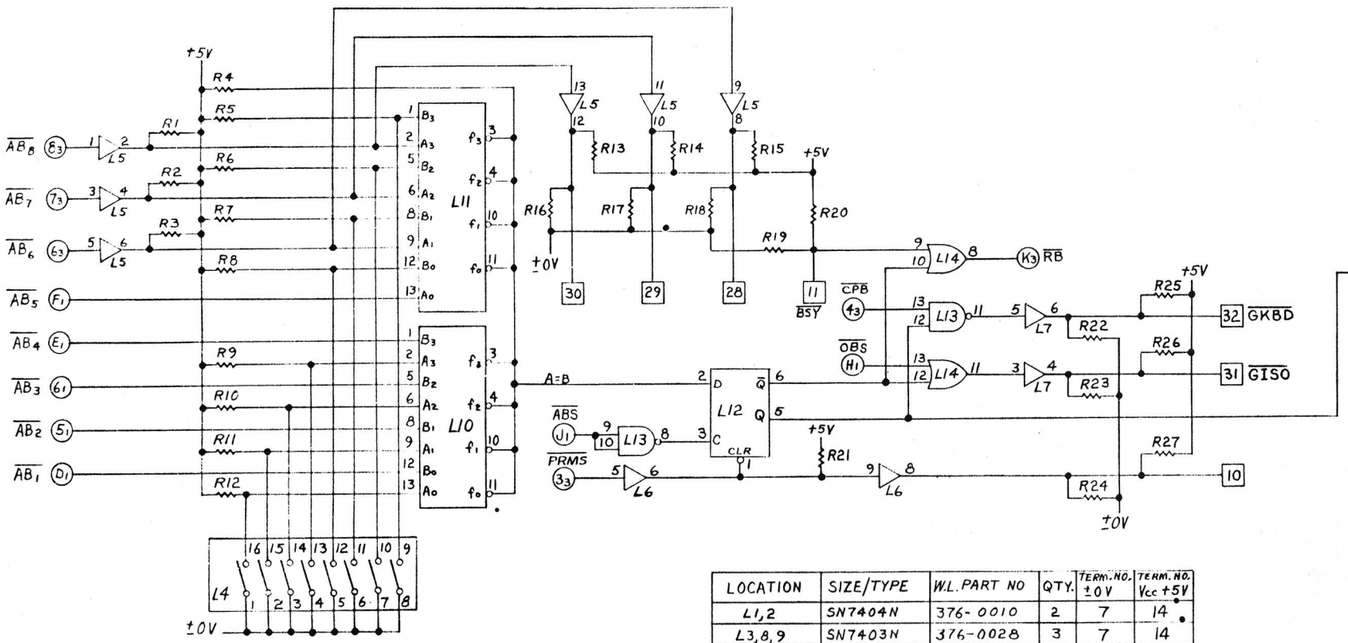



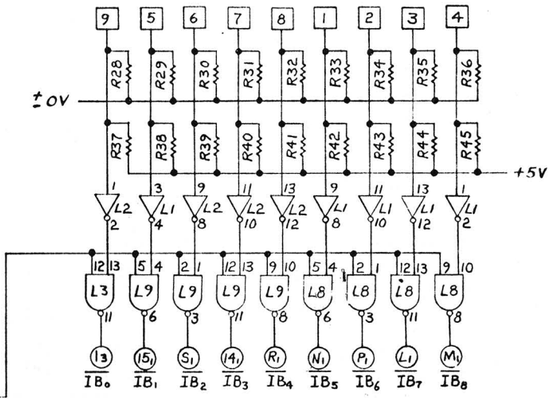



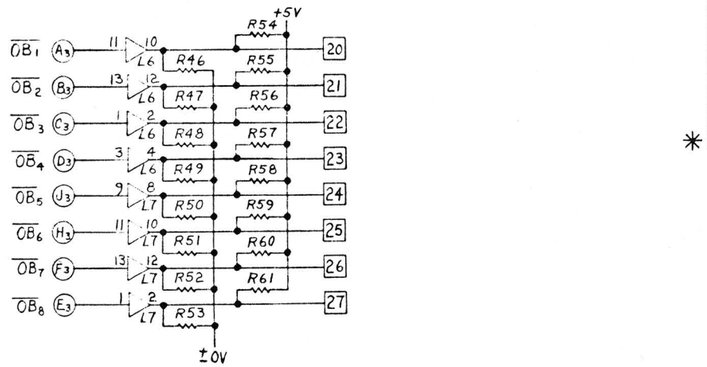

| NO. | REVISION | BY | DATE |
|---|---|---|---|
| 1 | REV PER ECN 3942 APP'D: J.H.L. | BK | 1-4-74 |

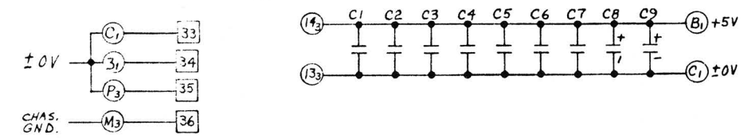
| WANG LABORATORIES INC. TEWKSBURY, MASS. | | | | |
|---|---|---|---|---|
| MODEL NO. 2203 | DRAWN BK | 9-19-73 | APP. 10-3-73 | |
| | CHECKED GDH | | APP. 13.0'H | |
| TITLE: SCHEMATIC LOGIBLOC # 6374 HIGH SPEED PAPER TAPE READER | | | | |
| SHT OF | DWG. NO. D 6374-1 | | REV. 1 | |

D 6374-1



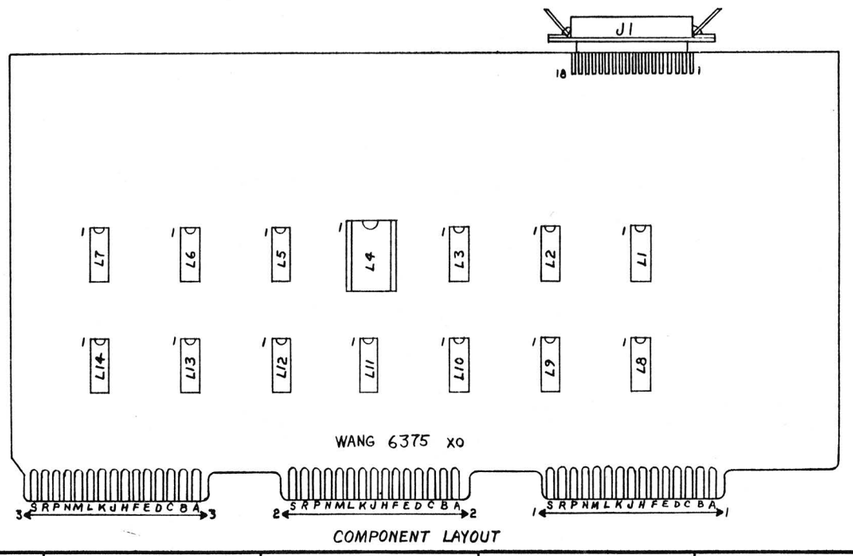



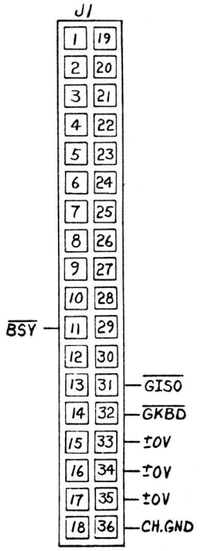



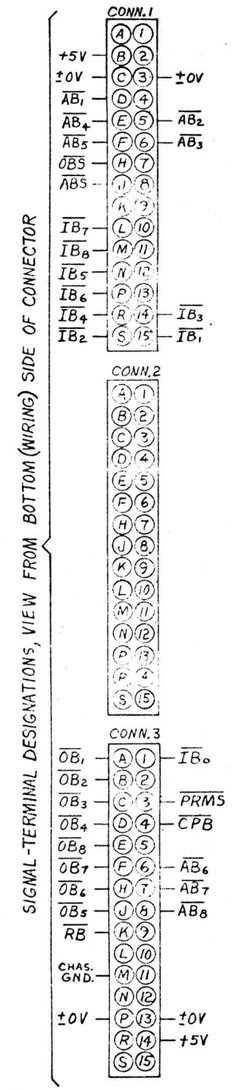

| LOCATION | SIZE/TYPE | W.L. PART NO | QTY. | TERM. NO. ±0V | TERM. NO. Vcc +5V |
|---|---|---|---|---|---|
| L1,2 | SN7404N | 376-0010 | 2 | 7 | 14 |
| L3,8,9 | SN7403N | 376-0028 | 3 | 7 | 14 |
| L4 | 8 BANK ROCKER SW. | 325-1503 | 1 | | |
| L5,6, | SN7407N | 376-0056 | 2 | 7 | 14 |
| L10,11 | SN74LS266 | 376-0148 | 2 | 7 | 14 |
| L12 | SN7474N | 376-0006 | 1 | 7 | 14 |
| L13 | SN7400N | 376-0002 | 1 | 7 | 14 |
| L14 | SN7432N | 376-0093 | 1 | 7 | 14 |
| * L7 | SN7407N | 376-0056 | 1 | 7 | 14 |

| COMPONENT | TYPE | W.L. PART NO | QTY. |
|---|---|---|---|
| R1,2,3,21 | 180Ω 1/4W | 330-2018 | 4 |
| R4-12 | 1K 1/4W | 330-3010 | 9 |
| R13-15,25-27,54-61 | 2.2K 1/4W | 330-3022 | 14 |
| R16-18,22-24,46-53 | 3.3K 1/4W | 330-3033 | 14 |
| R19,28-36 | 330Ω 1/4W | 330-2033 | 10 |
| R20,37-45 | 220Ω 1/4W | 330-2022 | 10 |
| C1-7 | .01μf 25V, CER. | 300-1903 | 7 |
| C8,9 | 15μf, 20V, TANT | 300-4022 | 2 |
| L4 | 8BANK ROCKER SW.CAP | 325-9047 | 1 |
| CONNECTOR | 57-40360 | 350-1038 | 1 |

NOTES:
1. 6375 FOR MODEL 2230 - FULL LOADED BOARD.
* 2. 6375-14 FOR MODEL 2214 - DO NOT LOAD L7.




| REVISION | BY | DATE |
|---|---|---|
| 1 REV PER ECN 3942 APPD: | ZK | 1-7-74 |

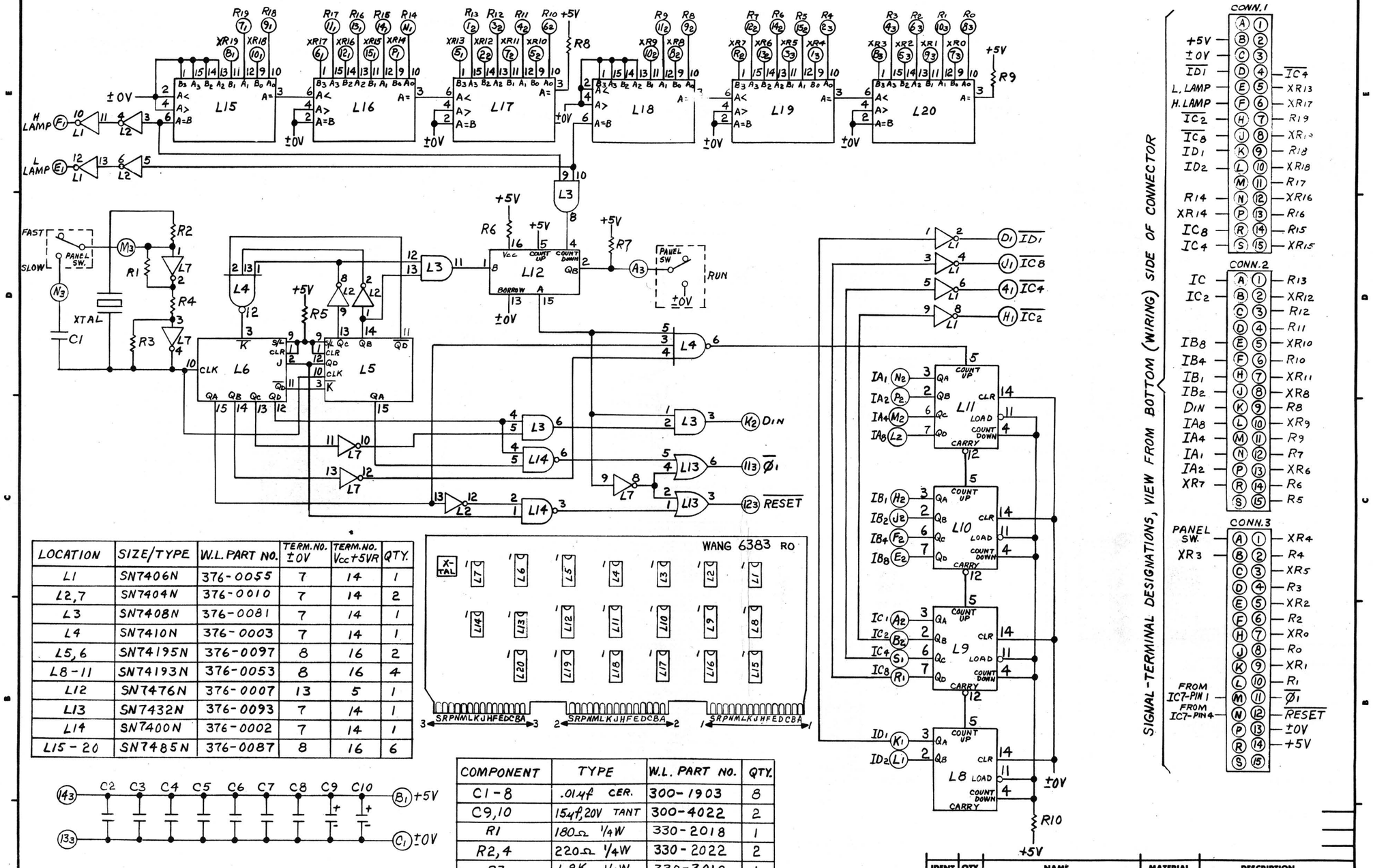
WANG LABORATORIES INC.
TEWKSBURY, MASS.

| MODEL NO. | DRAWN | APP. |
|---|---|---|
| 2214/2230 | ZK 9-17-73 | |
| | CHECKED 11-15-73 | APP. 11-15-73 |

TITLE: SCHEMATIC LOGIBLOC #6375/6375-14 DISK CONTROL

SHT OF | DWG. NO. D 6375-1 | REV. 1

DO NOT SCALE







| LOCATION | SIZE/TYPE | W.L. PART NO. | TERM.NO. ±0V | TERM.NO. Vcc+5VR | QTY. |
|---|---|---|---|---|---|
| L1 | SN7406N | 376-0055 | 7 | 14 | 1 |
| L2,7 | SN7404N | 376-0010 | 7 | 14 | 2 |
| L3 | SN7408N | 376-0081 | 7 | 14 | 1 |
| L4 | SN7410N | 376-0003 | 7 | 14 | 1 |
| L5,6 | SN74195N | 376-0097 | 8 | 16 | 2 |
| L8-11 | SN74193N | 376-0053 | 8 | 16 | 4 |
| L12 | SN7476N | 376-0007 | 13 | 5 | 1 |
| L13 | SN7432N | 376-0093 | 7 | 14 | 1 |
| L14 | SN7400N | 376-0002 | 7 | 14 | 1 |
| L15-20 | SN7485N | 376-0087 | 8 | 16 | 6 |







| COMPONENT | TYPE | W.L. PART NO. | QTY. |
|---|---|---|---|
| C1-8 | .01μf CER. | 300-1903 | 8 |
| C9,10 | 15μf,20V TANT | 300-4022 | 2 |
| R1 | 180Ω 1/4W | 330-2018 | 1 |
| R2,4 | 220Ω 1/4W | 330-2022 | 2 |
| R3 | 1.8K 1/4W | 330-3018 | 1 |
| R5,10 | 1K 1/4W | 330-3010 | 2 |
| R6,7 | 4.7K 1/4W | 330-3047 | 2 |
| R8,9 | 10K 1/4W | 330-4010 | 2 |
| XTAL | 10MC OSCIL. | 321-0008 | 1 |

| NO. | REVISION | BY | DATE |
|---|---|---|---|

| IDENT | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|

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

MATERIAL

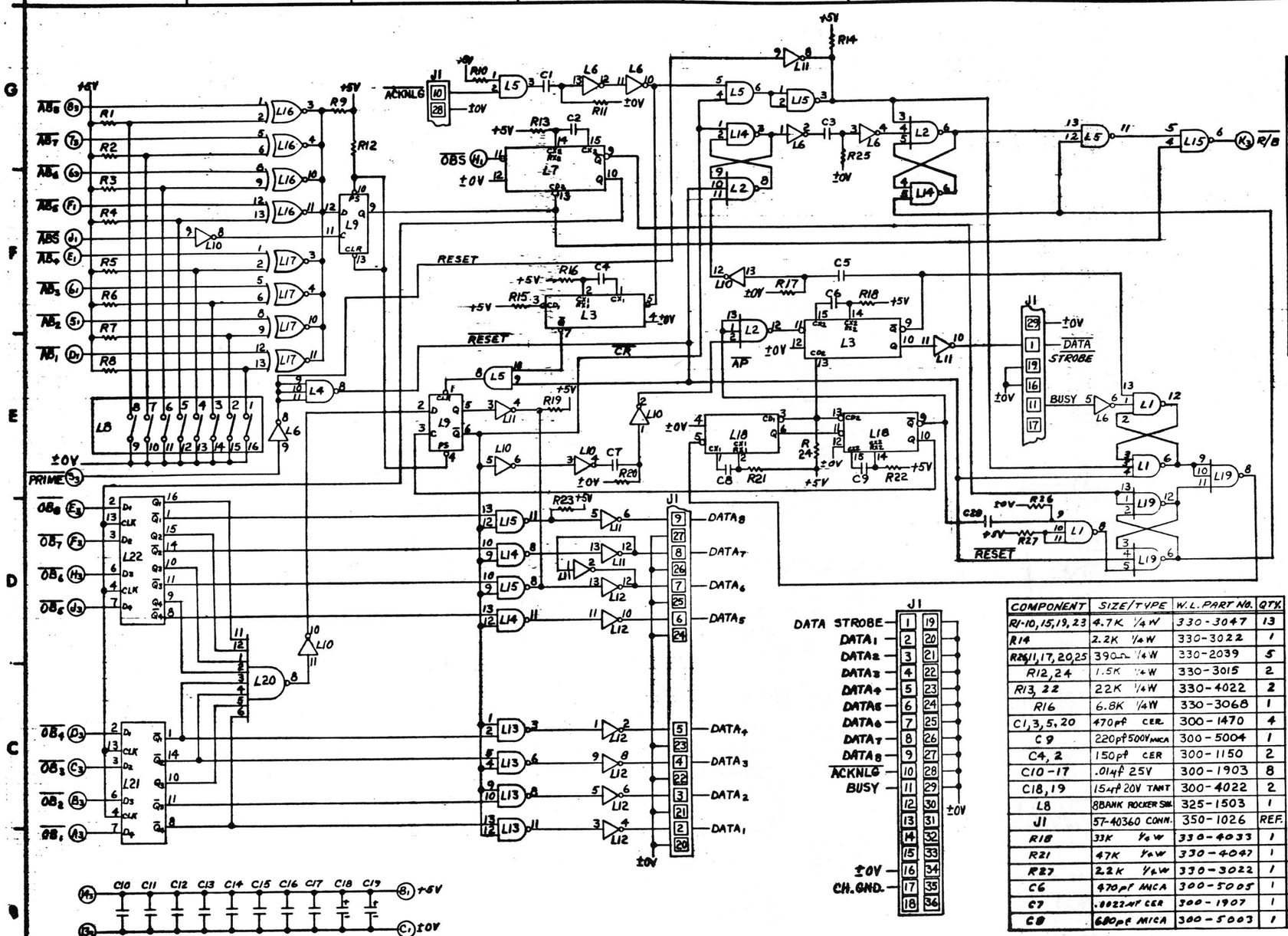
FINISH

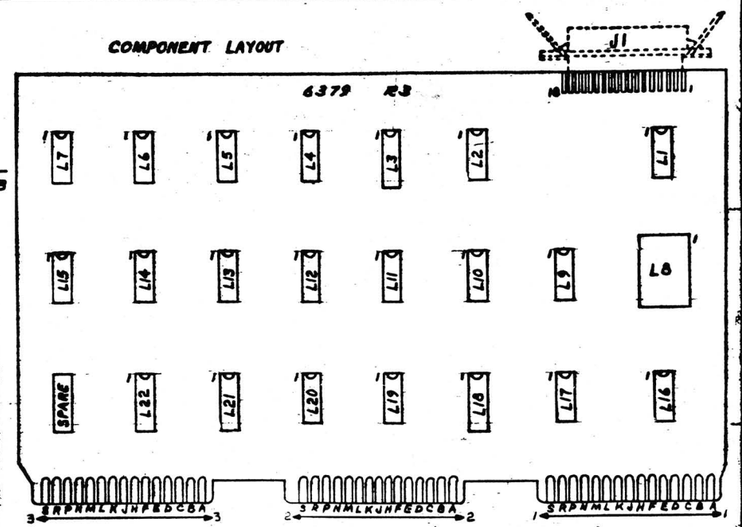
WANG LABORATORIES, INC.
TEWKSBURY, MASS. U. S. A.

| | | | |
|---|---|---|---|
| DR GR | DATE 11-13-73 | | |
| CHK | DATE | | |
| APPD H. Rodriguez | DATE 11-13-73 | | |
| MODEL No. 2200 | W.O. No. | SCALE | SHEET OF |

TITLE SCHEMATIC LOGIBLOC #6383 MINI-ROM TESTER

| PART NUMBER | REV | SIZE | DRAWING NUMBER |
|---|---|---|---|
| | | C | 6383-1 |

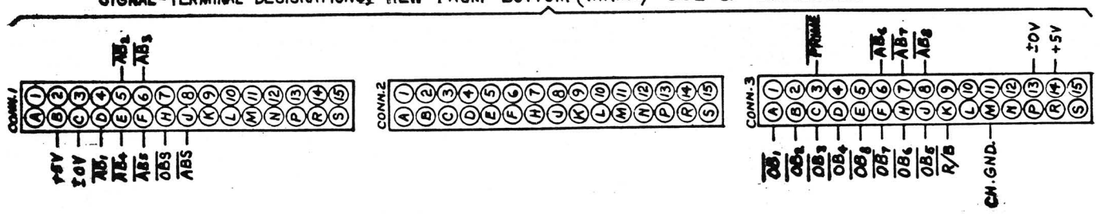



| LOCATION | TYPE | W.L. PART NO. | TERM. NO. ±0V | TERM. NO. Vcc +5VR | QTY. |
|---|---|---|---|---|---|
| L13,14 | SN7400N | 376-0002 | 7 | 14 | 2 |
| L4,2,4,19 | SN7410N | 376-0003 | 7 | 14 | 4 |
| L3,7,18 | 9602 | 376-0104 | 8 | 16 | 3 |
| L5 | SN7408N | 376-0081 | 7 | 14 | 1 |
| L6,10 | SN7404N | 376-0010 | 7 | 14 | 2 |
| L9 | SN7474N | 376-0006 | 7 | 14 | 1 |
| L11,12 | SN7406N | 376-0055 | 7 | 14 | 2 |
| L15 | SN7403N | 376-0028 | 7 | 14 | 1 |
| L16,17 | 74LS266 | 376-0148 | 7 | 14 | 2 |
| L20 | SN7430N | 376-0031 | 7 | 14 | 1 |
| L21,22 | SN74L75N | 376-0151 | 12 | 5 | 2 |

| COMPONENT | SIZE/TYPE | W.L. PART NO. | QTY. |
|---|---|---|---|
| R1-10,15,19,23 | 4.7K 1/4W | 330-3047 | 13 |
| R14 | 2.2K 1/4W | 330-3022 | 1 |
| R26,11,17,20,25 | 390Ω 1/4W | 330-2039 | 5 |
| R12,24 | 1.5K 1/4W | 330-3015 | 2 |
| R13,22 | 22K 1/4W | 330-4022 | 2 |
| R16 | 6.8K 1/4W | 330-3068 | 1 |
| C1,3,5,20 | 470pf CER. | 300-1470 | 4 |
| C9 | 220pf 500V MICA | 300-5004 | 1 |
| C4,2 | 150pf CER | 300-1150 | 2 |
| C10-17 | .01μf 25V | 300-1903 | 8 |
| C18,19 | 15μf 20V TANT | 300-4022 | 2 |
| L8 | 8BANK ROCKER SW. | 325-1503 | 1 |
| J1 | 57-40360 CONN. | 350-1026 | REF. |
| R18 | 33K 1/8W | 330-4033 | 1 |
| R21 | 47K 1/8W | 330-4047 | 1 |
| R27 | 2.2K 1/8W | 330-3022 | 1 |
| C6 | 470pf MICA | 300-5005 | 1 |
| C7 | .0022μf CER | 300-1907 | 1 |
| C8 | 680pf MICA | 300-5003 | 1 |

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




| REV | BY | APP | DESCRIPTION |
|---|---|---|---|
| 7 | BK 10-24-73 | | PRT PER ECN 3143. CHANGED L4 TO L16 PER ECN 3173 APPD: |
| 6 | BK 2-22-73 | | REI PER ECN 3173 APPD: |
| 5 | BK 1-9-74 | | REVISED PER ECN 3378 APP'D |
| 4 | BK 2-21-74 | | REVISED PER ECN 3378A (REVISED 3378A APPD |
| 3 | | | REVISED PER E.C.N. 4114A APP'D. |
| 2 | | | REVISED PER E.C.N. 4114A APP'D. |
| 1 | | | |

WANG LABORATORIES INC.
TEWKSBURY, MASS.

| SIZE | DWG. NO. | DRAWN | DATE | APP. | DATE |
|---|---|---|---|---|---|
| 2221/2231 2241/2261 | 2221/2231 2241/2261 | BK | 10-24-73 | | 1-4-74 |
| | CHECKED | | 11-16-74 | APP. | |

SCHEMATIC LOGIBLOC # 6379
HIGH SPEED LINE PRINTER

SIZE D | DWG. NO. 6379-1 | REV 7

SHEET 4

DO NOT SCALE

| LOCATION | TYPE | W.L. No. | TERM.No ±0V | TERM.No $V_{CC}$ +5VR | QTY |
|---|---|---|---|---|---|
| L1,2,3,7 | SN7403N | 376-0028 | 7 | 14 | 4 |
| L4,5,17 | SN7407N | 376-0056 | 7 | 14 | 3 |
| L8,9 | ROCKER SW. | 325-1503 | — | — | 2 |
| L10 | SN7408N | 376-0081 | 7 | 14 | 1 |
| L11 | SN7474N | 376-0006 | 7 | 14 | 1 |
| *L12,13,14,15 | 5L42 | 376-0040 | 7 | 14 | 4 |
| L16 | SN7404N | 376-0010 | 7 | 14 | 1 |
| L6 | SN7409N | 376-0085 | 7 | 14 | 1 |

* OR SN74S122N WL376-0148 DEPENDING ON AVAILABLE SUPPLY

| COMPONENT | SIZE/TYPE | W. L. NO. | QTY |
|---|---|---|---|
| R1,2,3,4,5,6,7,8,43 | 2.2K ¼ W | 330-3022 | 9 |
| R9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,41 | 4.7K ¼ W | 330-3047 | 20 |
| R42 | 1-2K ¼ W | 330-3072 | 1 |
| R28,29,30,31,32,33,34,35,36,37,38,39 | 1K ¼ W | 330-3510 | 12 |
| R44 | 4.7K ¼ W | 330-3047 | 1 |
| C1, 8, 9, 10 | 15 μf 20V TANT. | 303-1502 | 4 |
| C2, 3, 4, 5, 6, 7 | .01 μf CER | 303-1103 | 6 |
| | | | |
| J1, 2 | 24 PIN CONN | | 1 F |
| KODAK SWITCH COVER | 8 BANK CAP | 325-3047 | 2 |

| REVISION | DATE | BY |
|---|---|---|
| REVISED PER ECO 1 | 3/15/65 | M.D. |

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 2218 DRAWN [illegible] CHECKED APP. C.D. 11/14/64 APP.

TITLE SCHEMATIC LOGIC LOC 6388 DUAL CASSETTE CONTROL

SIZE D DWG NO. 6388-1 REV. 1

DO NOT SCALE

| LOCATION | TYPE | W.L.PART NO. | TERM.NO. ±0V | TERM.NO. Vcc+5V | QTY. |
|---|---|---|---|---|---|
| L1,12,20 | SN7515 4N | 376-0077 | 8 | 15,16 | 3 |
| L2-4,9-11,13-15 | SN7536 0N | -0118 | 4 | 5,8 | 9 |
| L5,16,24,33 | SN7412 3N | -0080 | 8 | 16 | 4 |
| L6,17,25 | SN7417 5N | -0119 | 8 | 16 | 3 |
| L7,18 | SN7402N | -0016 | 7 | 14 | 2 |
| L19,22,23 | SN7404N | -0010 | 7 | 14 | 3 |
| L21 | SN7410N | -0003 | 7 | 14 | 1 |
| L26,27,34 | SN7474N | -0006 | 7 | 14 | 3 |
| L28 | 8BANK RCKR.SW. | 325-1503 | | | 1 |
| L29,30 | 93L24 | 376-0120 | 8 | 16 | 2 |
| L31,32 | 8T10 | -0137 | 8 | 16 | 2 |
| L35 | SN7407N | -0056 | 7 | 14 | 1 |
| L8,36 | SN7403N | 376-0028 | 7 | 14 | 2 |

| COMPONENT | SIZE/TYPE | W.L.PART NO. | QTY. |
|---|---|---|---|
| R1 | 15K 1/4W | 330-4015 | 1 |
| R2,15,18 | 33K 1/4W | -4033 | 3 |
| R3-6,9,12,16, 19,29 | 2.2K 1/4W | -3022 | 9 |
| R7,8,27,32-41 | 1K 1/4W | -3010 | 13 |
| R10,11,17 | 22K 1/4W | -4022 | 3 |
| R13,28 | 1.2K 1/4W | -3012 | 2 |
| R14,20-26 | 4.7K 1/4W | -3047 | 8 |
| R30,31 | 1.5K 1/4W | 330-3015 | 2 |
| C1,3,6 | 47pf CER | 300-1047 | 3 |
| C2,5,7 | 470pf 500V MICA | 300-5005 | 3 |
| C4 | 22pf CER | 300-1022 | 1 |
| C8-20 | .01µf 25V CER | 300-1903 | 13 |
| C21,22 | 15µf 20V TANT | 300-4022 | 2 |
| J1 CONN. | 57-40360 | 350-1038 | 1 |
| R42,43 | 470Ω | 330-2047 | 2 |

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

CONN.1: +5V, ±0V, ĀB1, ĀB4, ĀB5, ŌB5, ĀB5, ĪB7, ĪB8, ĪB5, ĪB6, ĪB4, ĪB2 — ĀB2, ĀB3, ĪB3, ĪB1

CONN.2

CONN.3: ŌB1, ŌB2, ŌB3, ŌB4, ŌB8, ŌB7, ŌB6, ŌB5, R8, CH. GND. — ĪB5, ĪB9, PRMS, CPB, CBS, AB6, AB7, AB8, ±0V, +5V

COMP. SIDE — WIRING SIDE

WANG 6394 REV.

L8 L7 L9 L5 L10 L11 L14 L13 L12 / L19 L18 L17 L16 L15 L20 / L27 L26 L25 L24 L23 L22 L21 / L36 L35 L34 L33 L32 L31 L30 L29 L28

SRPNMLKJHFEDCBA — SRPNMLKJHFEDCBA — SRPNMLKJHFEDCBA

COMPONENT LAYOUT

| REVISION | BY | CK | AR | M.F. |
|---|---|---|---|---|
| 1 REVISED PER ECN 4070 APP'D | | 3-4-74 | 4-1-74 | 5-1-74 |
| 2 REVISED PER RM-0743 APP'D | | | | |
| 3 REVISED PER ECN 4121 APP'D | | | | |
| 4 REVISED PER ECN 4166 APP'D | | | | |

WANG LABORATORIES INC.
TEWKSBURY, MASS.

| MODEL NO. | DRAWN | APP. |
|---|---|---|
| 2250 | CK 12-28-73 | |
| | CHECKED | APP. 1-2-74 |

TITLE: SCHEMATIC LOGIBLOC #6394
INPUT/OUTPUT INTERFACE

SHT OF | DWG. NO. D 6394-1 | REV. 4

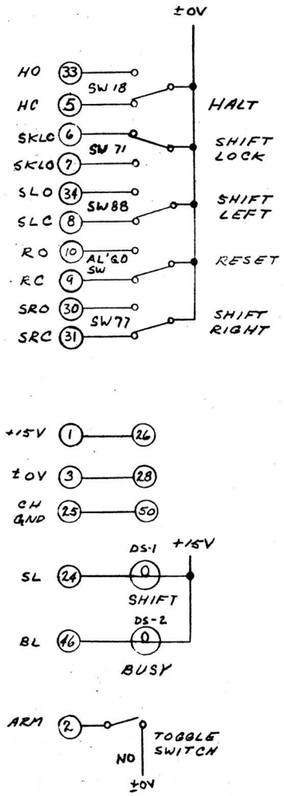
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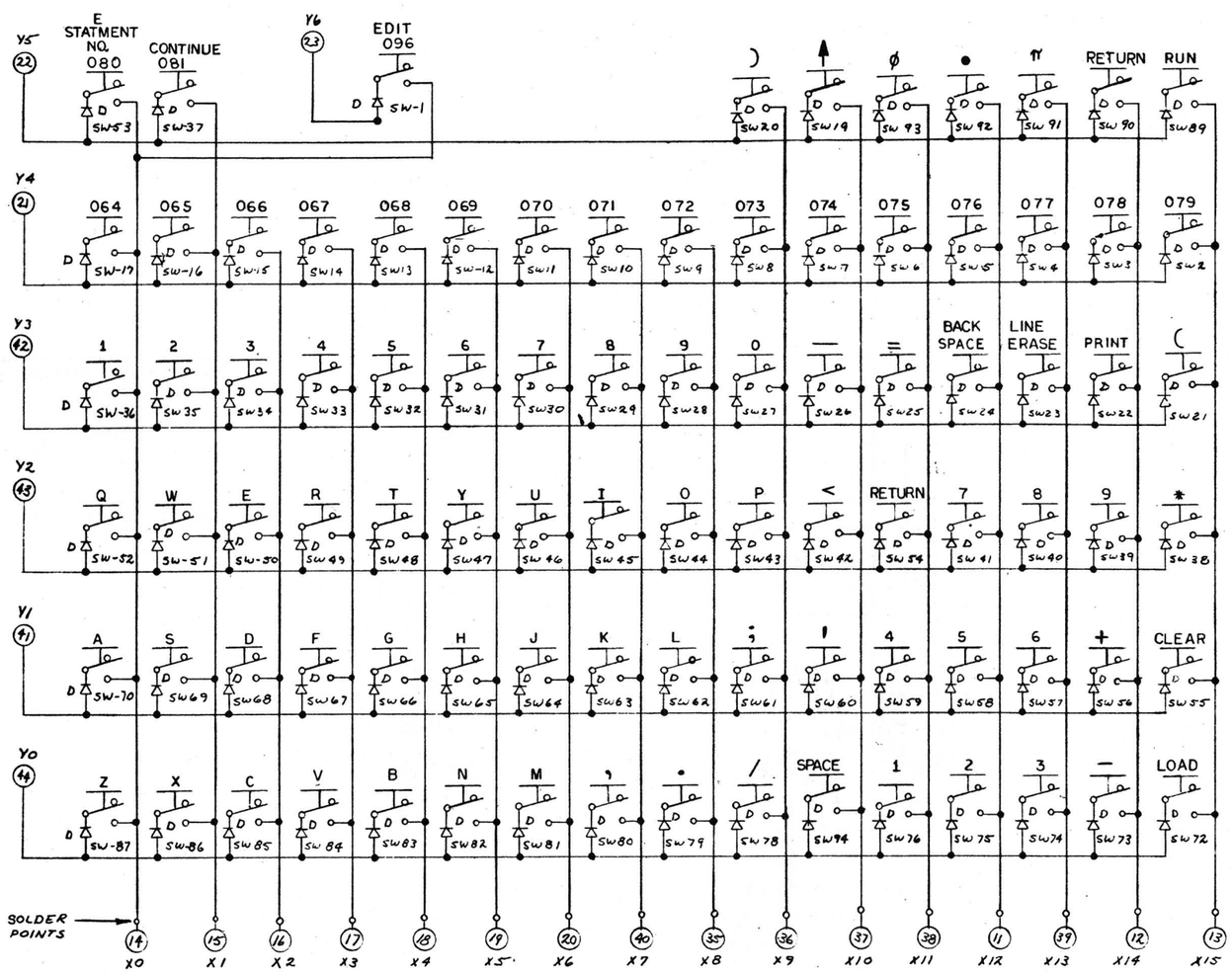
DO NOT SCALE

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 | | |

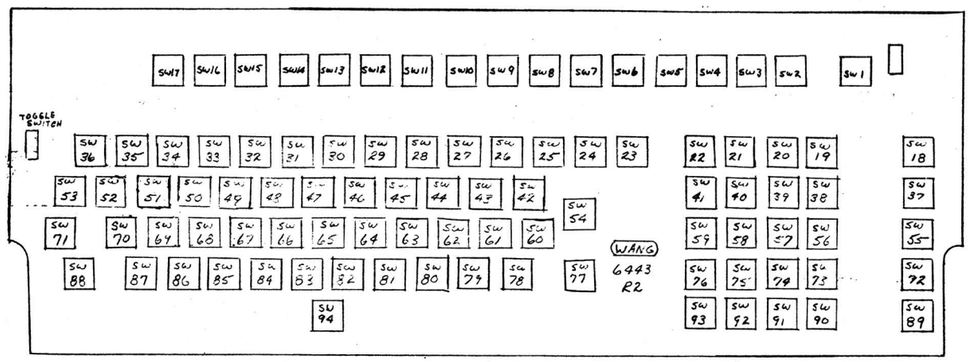


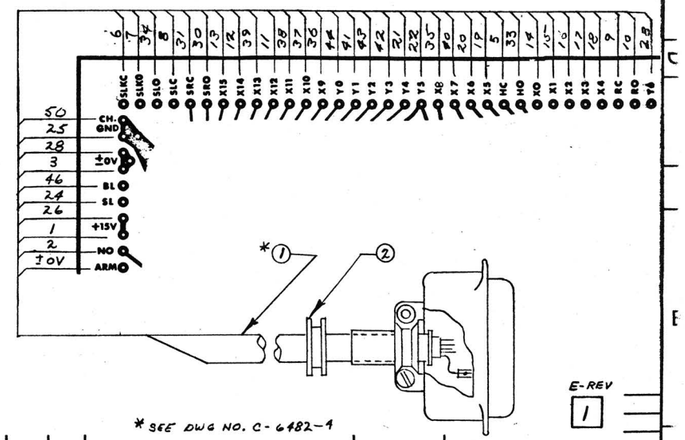




| SIGNAL | WIRE NO. | PIN NO. |
|---|---|---|
| +15V | 1 | 1 |
| | | 2 |
| ±0V | 3 | 3 |
| | | 4 |
| HC | 5 | 5 |
| SLKC | 6 | 6 |
| SLKO | 7 | 7 |
| SLC | 8 | 8 |
| RC | 9 | 9 |
| RO | 10 | 10 |
| X12 | 11 | 11 |
| X14 | 12 | 12 |
| X15 | 13 | 13 |
| XO | 14 | 14 |
| X1 | 15 | 15 |
| X2 | 16 | 16 |
| X3 | 17 | 17 |
| X4 | 18 | 18 |
| X5 | 19 | 19 |
| X6 | 20 | 20 |
| Y4 | 21 | 21 |
| Y5 | 22 | 22 |
| Y6 | 23 | 23 |
| SL | 24 | 24 |
| CH GND | 25 | 25 |

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

| ITEM | UL PT NO. |
|---|---|
| D | 380-1001 |
| | |
| SW1-17, | 325-2413 |
| SW18,71,77,88 | 325-2407 |
| SW,19-70,72-76, 78-87,89-93 | 325-2407 |
| TOGGLE SW | 325-0020 |
| AL'GO SW | 325-0026 |
| | |
| DS1, 2 | 310-0004 |
| | |
| * 1 | 220-2650-9 |
| 2 | 654-1205 |
| | |




* SEE DWG NO. C-6482-1

E-REV 1

| REVISION | NO. | BY | DATE |
|---|---|---|---|
| CHG PER DCR #881 APP'D: | 0 | WRJ | 11-17-74 |
| ECO PER ECN 1 #4578 APP'D: | 1/1 | BBA | 11-21-74 |
| ECO PER NO 1344 APP'D: | 2/1 | BBA | 12-30-74 |
| REVISED PER RFA 1497 APP'D: | 3/1 | BK | 2-12-75 |
| REVISED PER RFA-1536 APP'D: | 4/1 | BK | 2-25-75 |

| WANG PART NO. | ITEM | QTY. | NAME |
|---|---|---|---|
| QTY. PER UNIT | FIRST USED ON | ASSY USED ON | |

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

| MATERIAL | DESCRIPTION |
|---|---|

| BY | DATE | APPROVED BY | DATE |
|---|---|---|---|
| DWN | | E ENGR | |
| CHK | 10-31-74 | M ENGR | |
| E. C. CONTROL | | MFG ENGR | |

MATERIAL

MODEL NO. 2223

SEE ENGRG SPECIFICATIONS No.

FINISH

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

SCALE ¾ SHT # OF 7

TITLE SCHEMATIC FOR 2223 KEYBOARD

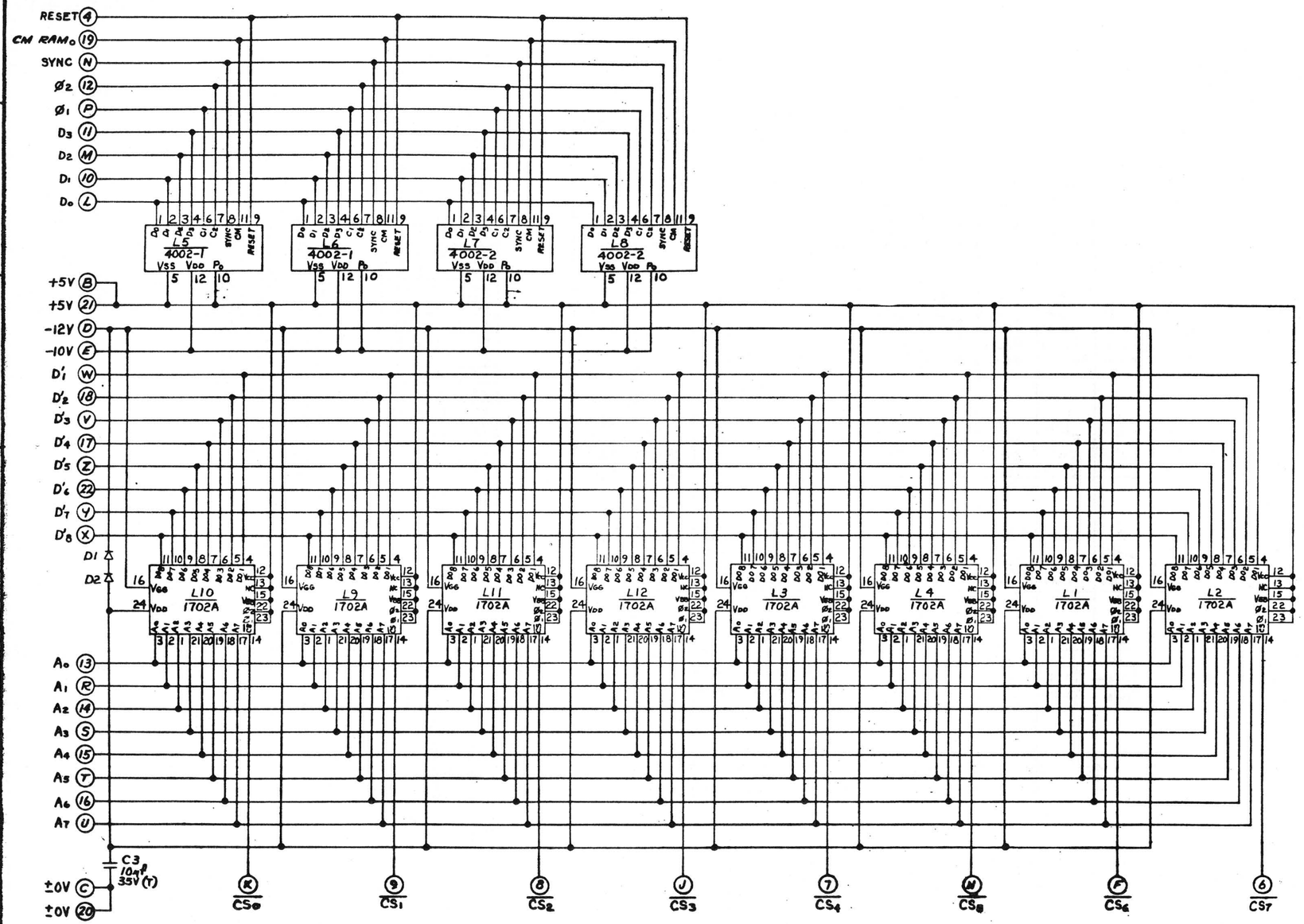
| 210-6443 | D | 6443 | 2 |
|---|---|---|---|
| WANG PART NUMBER | SIZE | DRAWING NUMBER | REV. |

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DO NOT SCALE

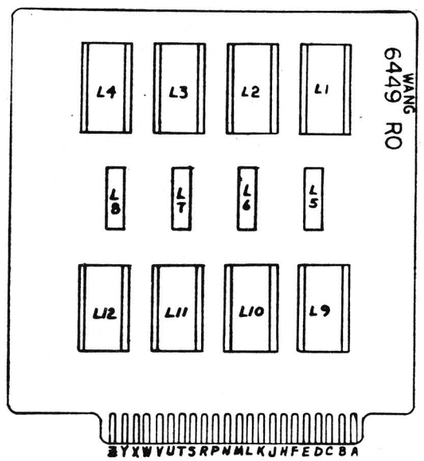
| HOLE LEGEND | | |
|---|---|---|
| DRILLED OR PUNCHED HOLE TOLERANCES: | HOLE DIA. | TOL. |
| | .0135 to .125 | ±.002 −.001 |
| | .126 to .250 | ±.003 −.001 |
| | .251 to .500 | ±.005 −.001 |

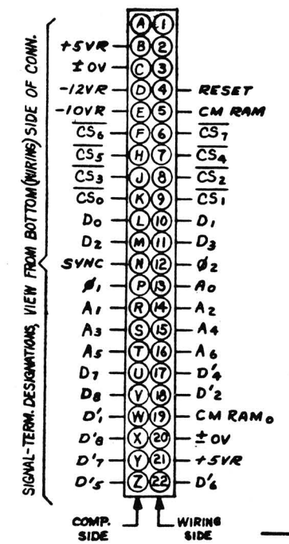
| IDENT. | DESCRIPTION | QTY. |
|---|---|---|
| A | | |

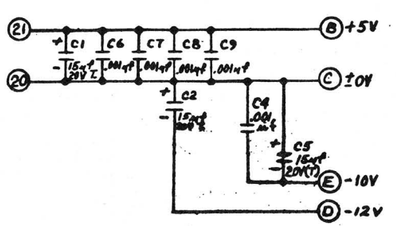



| LOCATION | W.L. PART NO. | TERM. NO. TOV | TERM. NO. Vcc+5V |
|---|---|---|---|
| L1-4, 9-12 | 377-0009 | | 12 |
| L5, 6 | 377-0205 | | |
| L7, 8 | 377-0264 | | |

| COMPONENT | W.L. PART NO. |
|---|---|
| C1, 2, 5 | 300-4022 |
| C4, 6-9 | 300-1906 |
| C3 | 300-4032 |
| D1, 2 | 380-4000 |




| REVISION | BY | DATE |
|---|---|---|
| CHANGED PER DCR 1-1-75 APPD. | GK | 1-6-75 |
| CHANGED PER MFR-1932 APPD. | | |

| 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 | GK | 10-10-74 | E ENGR | 11-7-74 |
| CHK | | 10-12-74 | M ENGR | |
| E. C. CONTROL | | | MFG ENGR | |

MATERIAL

MODEL NO. 2234A/2244A

SEE ENGRG SPECIFICATIONS No.

FINISH

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

TITLE SCHEMATIC LOGIBLOC# 6449 MEMORY BOARD

SCALE | SHT 4 OF 5

| 210-6449 | D | 6449 | 0 |
|---|---|---|---|
| WANG PART NUMBER | SIZE | DRAWING NUMBER | REV. |

1-6442 (1)

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DO NOT SCALE

VARIES SIDE

HOLE LEGEND

| SYMBOL | HOLE DIA. | TOL. |
|---|---|---|
| DRILLED OR PUNCHED HOLE TOLERANCES | .093 to .150 | ± .003 |
| | .156 to .250 | ± .004 |
| | .251 to .500 | ± .005 |

| SYMBOL | DESCRIPTION | QTY |
|---|---|---|
| A | | |

CONN. 3 — CONN. 2 — CONN. 1

6522 - R1

COMPONENT SIDE

CIRCUIT SIDE

NOTES:
SEE D6227 FOR 2200 POWER SUPPLY & INTERCONNECTION DIAGRAM.

| NO | REVISION | ECN | BY | DATE |
|---|---|---|---|---|
| 1 | REVISED PER ECA 1039 APP'D IMR | ECN 4311 | IMR | 6/5/74 |
| 2 | REVISED PER ECN 4314 APP'D DEM | ECN 4314 | DEM | 6/7/74 |
| 3 | REVISED PER ECN 4402 APP'D PEZ | ECN 4402 | PEZ | 8/6/74 |
| 4 | REVISED PER ECN 4682 APP'D SW | ECN 4682 | SW | 6/27/75 |

| WANG PART NO | ITEM | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| 150-0011 | 1 | 56 | CONNECTOR 225-2521-110 | | 30 PIN CONNECTOR |

| DRWN | FIRST USED ON | ASSY USED ON |
|---|---|---|
| | | |

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

MATERIAL

FINISH

MODEL NO 2200 A&B

TITLE MOTHER BOARD

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

SCALE — SHT — OF

| BY | DATE | APPROVED BY | DATE |
|---|---|---|---|
| DWN | 7/7/71 | ENGR J. Wang | 7/5/71 |
| CHK | 7/7/71 | M ENGR | |
| E C CONTROL | | MFG ENGR | |

WANG PART NUMBER 210-6522 — SIZE C — DRAWING NUMBER 6522 — REV 4

COMPONENT LAYOUT

6527-R0

| COMP. | SIZE/TYPE | W. L NO. | QTY |
|---|---|---|---|
| R1 THRU 20 | 1K | 330-3010 | 30 |
| D | SIL DIODE | 380-1001 | 234 |
| D2, 3 | IM903 | 380-4000 | 2 |
| | | | |
| C1, 7 | 15 MF 25V TANT | 300-4022 | 2 |
| C2, 3, 4, 5, 6 | .01 MFDCER | 300-1903 | 5 |
| | | | |
| SOCKET | 24 PIN | 376-9003 | C |

1702A PROGRAM VARIATIONS

| LOC. | A1 | A1E |
|---|---|---|
| L1 | | 378-0256 |
| L2 | | 378-0255 |
| L3 | | 378-0257 |
| L4 | 378-0244 | 378-0253 |
| L5 | 378-0243 | 378-0252 |
| L6 | 378-0245 | 378-0254 |

ALL BRANCHES ARE UNCONDITIONAL TO BYEXX

| LOCATION | TYPE | W. L. NO. | PIN NO. -10V | PIN NO. Vcc +5VR | QTY |
|---|---|---|---|---|---|
| L1,2,3,4,5,6 | 1702A | 377-0009 | — | — | |
| L7,8,9,15,17 | 9935 | 376-0025 | 7 | 14 | 5 |
| L18 | SN7442N | 376-0008 | 8 | 16 | 1 |
| L10,11,12,13,14 | SN74157N | 376-0082 | 8 | 16 | 5 |
| L16 | SN7476N | 376-0007 | 13 | 5 | 1 |
| L19,26,27,28,29,30 | SN7404N | 376-0010 | 7 | 14 | 6 |
| L20 | SN7409N | 376-0085 | 7 | 14 | 1 |
| L21,22,23,24,25 | 8T10 | 376-0137 | 8 | 16 | 5 |

SEE PROGRAM VARIATIONS

CONN. 1 — CONN. 2 — CONN. 3

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

COMP SIDE — WIRING SIDE

| REVISION | BY | DATE | APPD |
|---|---|---|---|
| REVISED PER ECO 069 | NB | 7-6-73 | RP |
| REVISED PER ECO 0210 | SD | 1/11/74 | RP |

| IDENT | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|
| | | | DR | DATE 1-8-74 |
| | | | CHK | DATE |
| | | | APPD R. Richter | DATE 1-30-74 |

TOL. EX. AS NOTED .XX ±.010 .XXX ±.005 ANGS. 30' MACH. ±1/2°

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

MODEL No. 2200 W.O. No. SCALE NONE SHEET OF

TITLE SUPER PATCH VERSIONS A1 AND A1E DIODE AND ERASEABLE ROM BOARD

PART NUMBER 2 D 6527-10 DWG SIZE DRAWING NUMBER

COMPONENT LAYOUT

6527-RO

| COMP. | SIZE/TYPE | W. L. NO. | QTY |
|---|---|---|---|
| RITHRU39 | 1K Ysw | 330-3010 | 30 |
| D | SIL DIODE | 380-1001 | 340 |
| D2, 3 | EM403 | 380-4000 | 2 |
| | | | |
| C1, 7 | 15-125 MF TANT | 300-4022 | 2 |
| C2, 3, 4, 5, 6 | .01 MFD CER | 300-1903 | 5 |
| | | | |
| SOCKET | 24 PIN | 376-9003 | 6 |

1702A PROGRAM VARIATIONS

| LOC. | W.L. PART No | QTY |
|---|---|---|
| L1 | | |
| L2 | | |
| L3 | | |
| L4 | 378-0247 | 1 |
| L5 | 378-0246 | 1 |
| L6 | 378-0248 | 1 |

ALL BRANCHES ARE UNCONDITIONAL TO B7EXX

| LOCATION | TYPE | W. L. NO. | PIN. No. 20V | PIN No. Vcc +5VR | QTY |
|---|---|---|---|---|---|
| L1,2,3,4,5,6 | 1702A | 377-0007 | | | |
| L7,8,9,15,17 | 9935 | 376-0025 | 7 | 14 | 5 |
| L18 | SN7442N | 376-0005 | 8 | 16 | 1 |
| L10,11,12,13,14 | SN74157N | 376-0082 | 8 | 16 | 5 |
| L16 | SN7476N | 376-0007 | 13 | 5 | 1 |
| L19,26,27,28,29,30 | SN7404N | 376-0010 | 7 | 14 | 6 |
| L20 | SN7409N | 376-0088 | 7 | 14 | 1 |
| L21,22,23,24,25 | 8T10 | 376-0137 | 8 | 16 | 5 |

SEE PROGRAM VARIATIONS

CONN. 1 / CONN. 2 / CONN. 3

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

COMP SIDE — WIRING SIDE

| REV | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|
| | | | DR | DATE 1-8-74 |
| | | | CHK | DATE |
| | | | APPD P. Richo | DATE 1-30-74 |

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

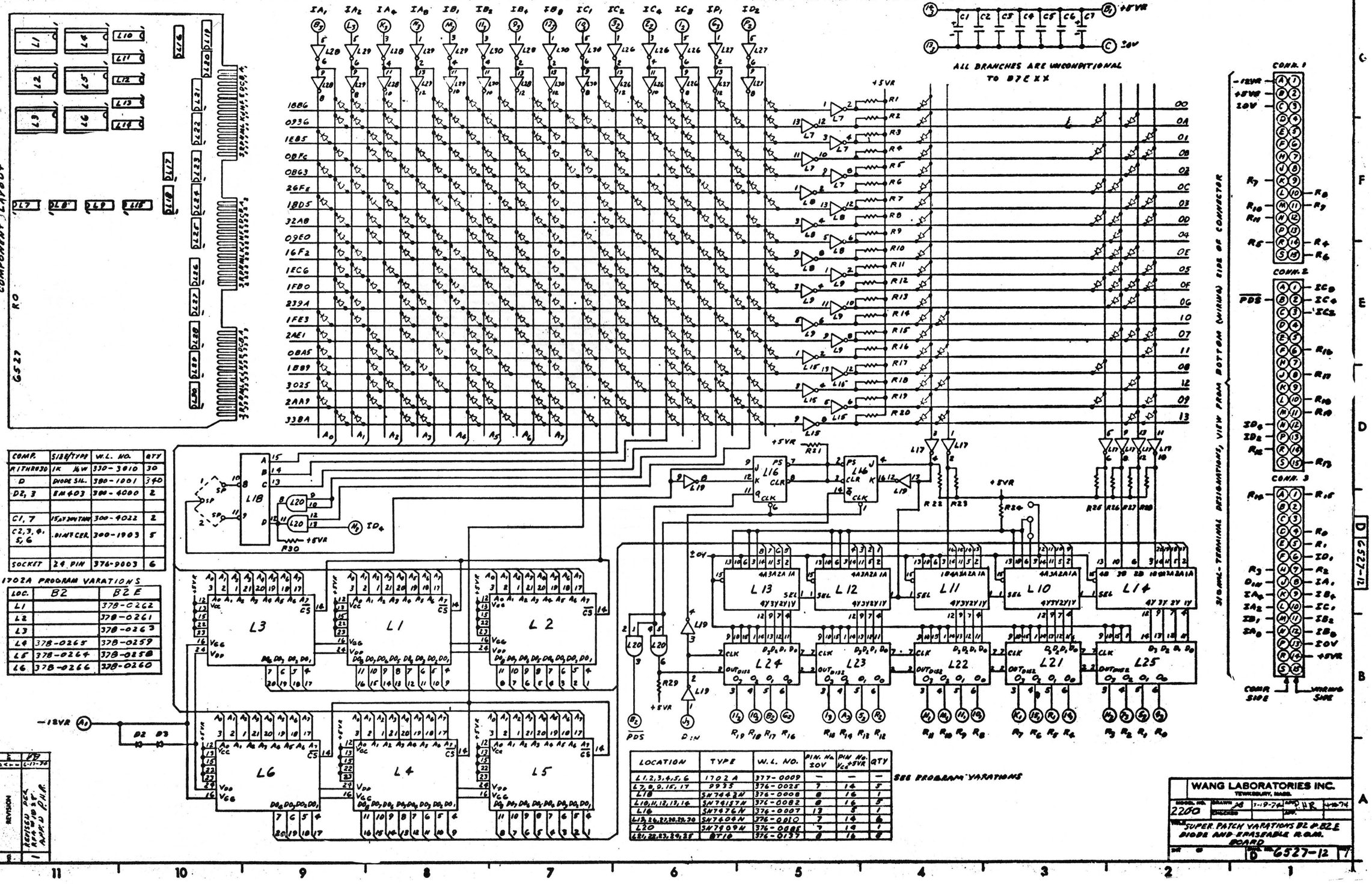
MODEL No. 2200 W.O. No. SCALE FT. SHEET OF

TITLE SUPER PATCH VARIATIONS BI DIODE AND ERASEABLE RAM BOARD

2 D 6527-11

PART NUMBER REV SIZE DRAWING NUMBER

| REV | QTY | DESCRIPTION | BY |
|---|---|---|---|
| 1 | 1 | REVISED PARTS LIST AND ADD'L NOTES | 6/11/73 |
| 2 | 1 | REVISED PARTS LIST AND ADD'L NOTES | 1-30-74 |




| COMP. | SIZE/TYPE | W.L. NO. | QTY |
|---|---|---|---|
| RITHR030 | 1K ¼W | 330-3010 | 30 |
| D | DIODE SIL. | 380-1001 | 340 |
| D2, 3 | BM403 | 380-4000 | 2 |
| | | | |
| C1, 7 | 15µF 20V TANT | 300-9022 | 2 |
| C2,3,4, 5,6 | .01MF CER. | 300-1003 | 5 |
| | | | |
| SOCKET | 24 PIN | 376-9003 | 6 |

1702A PROGRAM VARIATIONS

| LOC. | B2 | B2E |
|---|---|---|
| L1 | | 378-0262 |
| L2 | | 378-0261 |
| L3 | | 378-0263 |
| L4 | 378-0265 | 378-0259 |
| L5 | 378-0264 | 378-0258 |
| L6 | 378-0266 | 378-0260 |

| LOCATION | TYPE | W.L. NO. | PIN No. 10V | PIN No. Vcc +5VR | QTY |
|---|---|---|---|---|---|
| L1,2,3,4,5,6 | 1702A | 377-0009 | — | — | — |
| L7,8,9,15,17 | 9935 | 376-0025 | 7 | 14 | 5 |
| L18 | SN7442N | 376-0008 | 8 | 16 | 1 |
| L10,11,12,13,14 | SN74157N | 376-0082 | 8 | 16 | 5 |
| L16 | SN7476N | 376-0007 | 13 | 5 | 1 |
| L19,26,27,28,29,30 | SN7404N | 376-0010 | 7 | 14 | 6 |
| L20 | SN7409N | 376-0086 | 7 | 14 | 1 |
| L21,22,23,24,25 | 8T16 | 376-0137 | 8 | 16 | 5 |

SEE PROGRAM VARIATIONS

| REVISION | BY | DATE |
|---|---|---|
| REVISED PCA NAME & PART NUMBER | | |
| 1 | | |

WANG LABORATORIES INC.
TEWKSBURY, MASS.

| MODEL NO. | DRAWN | DATE | APPD | DATE |
|---|---|---|---|---|
| 2200 | AB | 1-19-74 | HR | 1-30-74 |
| | CHECKED | | | |

TITLE: SUPER. PATCH VARIATIONS B2 & B2E DIODE AND ERASEABLE R.O.M. BOARD

SIZE D | DWG. NO. 6527-12 | REV 1

6527-12

COMPONENT LAYOUT

G527

R0

DO NOT SCALE

ALL BRANCHES ARE UNCONDITIONAL TO B7CXX

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

CONN. 1

CONN. 2

CONN. 3

COMP SIDE

WIRING SIDE

| COMP. | S/SB/TYPE | W.L. NO. | QTY |
|---|---|---|---|
| R1 THRU 30 | 1K ¼W | 330-3010 | 30 |
| D | DIODE SIL. | 380-1001 | 340 |
| D2, 3 | EM 403 | 380-4000 | 2 |
| | | | |
| C1, 7 | 15,47 200 VOLTAGE | 300-4022 | 2 |
| C2, 3, 4, 5, 6 | CERAMIC DISC | 300-1903 | 5 |
| | | | |
| SOCKET | 24 PIN | 376-9003 | 6 |

1702A PROGRAM VARIATIONS

| LOC. | W.L. PART NO | QTY |
|---|---|---|
| L1 | | |
| L2 | | |
| L3 | | |
| L4 | 378-0268 | 1 |
| L5 | 378-0267 | 1 |
| L6 | 378-0269 | 1 |

| LOCATION | TYPE | W.L. NO. | PIN No. -10V | PIN No. +5VR | QTY |
|---|---|---|---|---|---|
| L1,2,3,4,5,6 | 1702A | 377-0009 | — | — | — |
| L7,8,9,15,17 | 9935 | 376-0025 | 7 | 14 | 5 |
| L18 | SN7442N | 376-0008 | 8 | 16 | 1 |
| L10,11,12,13,14 | SN74187N | 376-0082 | 8 | 16 | 5 |
| L16 | SN7476N | 376-0007 | 13 | 5 | 1 |
| L19,26,27,28,29,30 | SN7404N | 376-0810 | 7 | 14 | 6 |
| L20 | SN7409N | 376-0008 | 7 | 14 | 1 |
| L21,22,23,24,25 | 8T10 | 376-0137 | 8 | 16 | 5 |

SEE PROGRAM VARIATIONS

| REVISION | BY | DATE |
|---|---|---|
| REVISED PER ECO M-1187 | PHK | 6/11/74 |

WANG LABORATORIES INC.
TEWKSBURY, MASS.

2200 — 7-19-74 PHK — 9-16-74

TITLE: SUPER PATCH VARIATIONS B3K DIODE AND ERASEABLE R.O.M. BOARD

SIZE D — 6527-13 — REV 1

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HOLE LEGEND:

| SYMBOL | DESCRIPTION | QTY |
|---|---|---|
| A | | |

COMPONENT LAYOUT 6528 A1

J1 REF

| LOCATION | TYPE | W.L PART No. | TERM VOLT LOW | TERM VOLT HIGH | QTY |
|---|---|---|---|---|---|
| L1, 28 | 9602 | 376-0104 | 8 | 16 | 2 |
| L2 | 9316 | 376-0108 | 8 | 16 | 1 |
| L3, 24, 39 | SN7400N | 376-0002 | 7 | 14 | 3 |
| L4, 5 | SN74195N | 376-0069 | 8 | 16 | 2 |
| L6 | SN74151N | 376-0047 | 8 | 16 | 1 |
| L7, 14, 15 | SN7493N | 376-0011 | 10 | 5 | 3 |
| L8 | 555 | 376-0126 | 1 | 8 | 1 |
| L9, 22 | SN7474N | 376-0006 | 7 | 14 | 2 |
| L10 | SN7402N | 376-0016 | 7 | 14 | 1 |
| L11, 16, 26, 27, 32, 40 | SN7404N | 376-0010 | 7 | 14 | 6 |
| L12 | 1101 | 377-0000 | 16 | 5 | 1 |
| L13, 23 | 1702A | 377-0069 | 16 | 12 | |
| L17, 25 | SN7420N | 376-0004 | 7 | 14 | 2 |
| L18, 33, 35, 37 | SN7403N | 376-0028 | 7 | 14 | 4 |
| L20, 41 | SN7410N | 376-0007 | 7 | 14 | 2 |
| L21, 38 | SN7407N | 376-0056 | 7 | 14 | 2 |
| L29, 30 | SN74LS24N | 376-0148 | 7 | 14 | 2 |
| L31 | 5 BANK ROCKER SW | 325-1501 | – | — | 1 |
| L34 | SN74175N | 376-0119 | 8 | 16 | 1 |
| L36 | SN74174N | 376-0098 | 8 | 16 | 1 |

| COMPONENT | SIZE/TYPE | W.L. PART No. | QTY |
|---|---|---|---|
| R1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 16, 17, 18, 19, 29, 31, 33, 34, 35, 36, 39, 40, 41, 42, 43, 44, 45, 46, 47 | 4.7K ¼W | 330-3047 | 30 |
| R10, 30 | 1.2K ¼W | 330-3012 | 2 |
| R11, 28, 29, 32 | 2.2K ¼W | 330-3022 | 4 |
| R12, 13, 27, 37 | 1K ¼W | 330-3010 | 4 |
| R22, 25, 26, 38, 48 | 390-Ω ¼W | 330-2039 | 5 |
| R24, 33, 34 | 33K ¼W | 330-4033 | 3 |
| | | | |
| | | | |
| | | | |
| C1 | 1000 PF MICA | 300-5008 | 1 |
| C2, 11, 19, 20 | 15 MF 20V TANT | 300-4022 | 4 |
| C3, 5, 6, 7, 10 | .001 100V CER | 300-1806 | 5 |
| C4, 8, 9 | 470 PF CER | 300-1870 | 3 |
| C12, 13, 14, 15, 16, 17, 18 | .01 MF CER | 300-1903 | 7 |
| C21, 22 | 47 MF TANT | 300-4001 | 2 |
| P1, 2, 3, 4 | EM-603 | 380-4000 | 4 |
| | | | |
| J1 | 50 PIN CONN | 350-1027 | REF |
| J2 | 16 PIN SOCKET | 376-9002 | 1 |
| | 24 PIN SOCKET | 376-9003 | 2 |

1702A LOADING CHART

| VARIATION | L 13 | L 23 |
|---|---|---|
| 6528-10 | — | 378-0249 |
| 6528-11 | — | 378-0250 |
| 6528-12 | 378-0270 | 378-0249 |

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

CONN 1 CONN 2 CONN 3

| WANG PART NO. | ITEM | QTY | NAME |
|---|---|---|---|
| | | | WANG LABORATORIES, INC. |
| MATERIAL | | | MODEL NO. 2200 |
| FINISH | | | SEE DWING SPECIFICATIONS No. |
| | | | TOL. EX. AS NOTED XX ± .010 FRAC. ± 1/64 ANGLE ± 0°30' AVG. ± 0°15' FINISH |
| | | | SCALE: SIZE QT |

| MATERIAL | DESCRIPTION |
|---|---|
| BY | DATE |
| DWN'D | ENGR. |
| CHK'D | ENGR. |
| E.C. CONTROL | MFG. ENGR. |

TITLE SCHEMATIC LOGIBLOC # 6528 KEYBOARD ENCODER (INTEL ROM)

WANG PART NUMBER | SIZE E | DRAWING NUMBER 6528-1 | REV 4

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DO NOT SCALE

HOLE LEGEND

| DRILLED OR UNCHED HOLE TOLERANCES | HOLE DIA. | TOL. |
|---|---|---|
| | .0135 to .125 | ± .003 |
| | .126 to .250 | ± .004 |
| | .251 to .500 | ± .005 |

| IDENT. | DESCRIPTION | QTY |
|---|---|---|
| A | | |

SIGNAL-TERMINAL ASSIGNMENTS, VIEW FROM SOLDERING SIDE OF CONNECTOR

| | | | |
|---|---|---|---|
| | $D_0$ | A1 | CH. GND |
| STEP ROW DISPLAY | | B2 | +5VR |
| | HS | C3 | 0V |
| | WRITE ENBL | D4 | ENBL $B_6$ |
| | VB | E5 | BOC |
| ENBL CURSOR | | F6 | W BUSY |
| READ STROBE | | H7 | "0" |
| | $A_3$ | J8 | $\overline{HB}$ |
| | $A_4$ | K9 | $A_2$ |
| | VB | L10 | $A_1$ |
| | $\overline{A_1}$ | M11 | $A_0$ |
| SERIAL DATA | | N12 | ENBL WP |
| | $A_5$ | P13 | RESET ROW DISPLAY |
| | $A_2$ | R14 | $A_4$ |
| STEP DISPLAY CTR | | S15 | $A_3$ |
| | $B_3$ | T16 | DATA STROBE |
| | $B_7$ | U17 | $B_4$ |
| | $B_6$ | V18 | $B_5$ |
| | $B_2$ | W19 | ETX |
| LOAD S/R | | X20 | $B_1$ |
| | +12VR | Y21 | +5VR |
| | −12VR | Z22 | 0V |
| | COMP. SIDE | | WIRING SIDE |

COMPONENT LAYOUT

6529 X1

L4 L3 L2 L1
L7 L6 L5 L14 XTAL
L11 L10 L9 L8 L12
L15 L16 L13 L17 L16
L20 L19 L18 L22 L21
L25 L24 L23 L26 L25A
L29 L28 L27

| LOCATION | TYPE | W.L. No. | PIN No. GND | PIN No. $V_{CC}$ +5VR | QTY | |
|---|---|---|---|---|---|---|
| L1 | SN7493N | 376-0011 | 10 | 5 | 1 | |
| L2 | | | | | | SEE LOADING SCHEDULE |
| L3, 6, 13 | SN7400N | 376-0002 | 7 | 14 | 3 | |
| L9, 7, 11, 15, 20, 25 | MOS 2102 | 377-0069 | 9 | 10 | 6 | |
| L5, 9, 16, 17 | SN7404N | 376-0010 | 7 | 14 | 4 | |
| L10 | SN7407N | 376-0056 | 7 | 14 | 1 | |
| L12 | SN7420N | 376-0004 | 7 | 14 | 1 | |
| L18 | SN74174N | 376-0098 | 8 | 16 | 1 | |
| L18 | SN7410N | 376-0003 | 7 | 14 | 1 | |
| L19, 24 | SN7473N | 376-0005 | 11 | 4 | 2 | |
| L21, 26 | SN7426N | 376-0067 | 7 | 14 | 2 | |
| L22 | SN7496N | 376-0065 | 12 | 5 | 1 | |
| L23 | SN7402N | 376-0016 | 7 | 14 | 1 | |
| L27 | TTL/MSI 9316 | 376-0108 | 8 | 16 | 1 | |
| L28 | SN74194N | 376-0006 | 7 | 14 | 1 | |
| L8 | | | ● | | | SEE LOADING SCHEDULE |
| L25A | | | | | | SEE LOADING SCHEDULE |
| L29 | | | | | | SEE LOADING SCHEDULE |

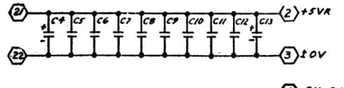
| COMP. | SIZE/TYPE | W.L. No. | QTY |
|---|---|---|---|
| R1,2,3,4,5,6, 7,8,9,13,14,23 | 3.3K ¼W | 330-3033 | 12 |
| R10,11,12, 13,19 | 6.8K ¼W | 330-3068 | 5 |
| R15, 22 | 4.7K ¼W | 330-3047 | 2 |
| R16, 21, 24 | 1K ¼W | 330-3010 | 3 |
| R17, 20 | 470 Ω ¼W | 330-2047 | 2 |
| | | | |
| C1, 5, 6, 7, 8, 9, 10, 11, 12 | .01 μF CER | 340-1703 | 9 |
| C2, 3, 4, 13 | 15 at 12V TANT | 300-4022 | 4 |
| | | | |
| XTAL | 8.60160 MHz | 321-0012 | 1 |
| | | | |
| SOCKET | 24 PIN | 376-9003 | 2 |
| SOCKET | 16 PIN | 376-9002 | 1 |

JUMPER WIRING (L25A LOCATION)

| JUMPER #1 | JUMPER #2 | JUMPER #3 |
|---|---|---|
| 14,15 & 16 | 3,15 & 16 | 1 & 16 |
| 6 & 10 | 8 & 10 | 2 & 15 |
| | | 6 & 10 |

LOADING SCHEDULE

| PART No. | APPLICATION | L2 | L8 | L25A | L29 |
|---|---|---|---|---|---|
| 210-6529-2 | STANDARD (ENGLISH UP-CASE) | 377-0071 MMS280AA/J | NOT LOADED | JUMPER #1 | DO NOT LOAD |
| 210-6529-1 | ENGLISH (UPPER & LOWER CASE) | 377-0226 MMS240AE/M | 377-0071 MMS240AA/J | JUMPER #2 | 377-0069 2102 |
| 210-6529 | DUAL LANGUAGE | 377-0071 MMS240AA/J | 377-0220 MMS240AD/J (KATA-KANA) | JUMPER #3 | 377-0069 2102 |




| REVISION | ENGR | DATE |
|---|---|---|
| A ADD -1 REVISED PER ECO 6529-1 | | 2-12-76 |

| 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 | | 2-12-76 | ENGR | 2-19-76 |
| CHK | | | M ENGR | |
| E.C. CONTROL | | | MFG ENGR | |

MATERIAL

MODEL NO. 2216

SEE ENGRG SPECIFICATIONS No.

FINISH

TOL. ON AS NOTED .XX ± .010 .XXX ± .005 ANG. ± 1°30' FRACT. ± 1/64

SCALE SHT 1 OF 1

TITLE SCHEMATIC, LOGIBLOC 6529 DUAL LANGUAGE DISPLAY

WANG PART NUMBER 6529-1 SIZE E REV 1

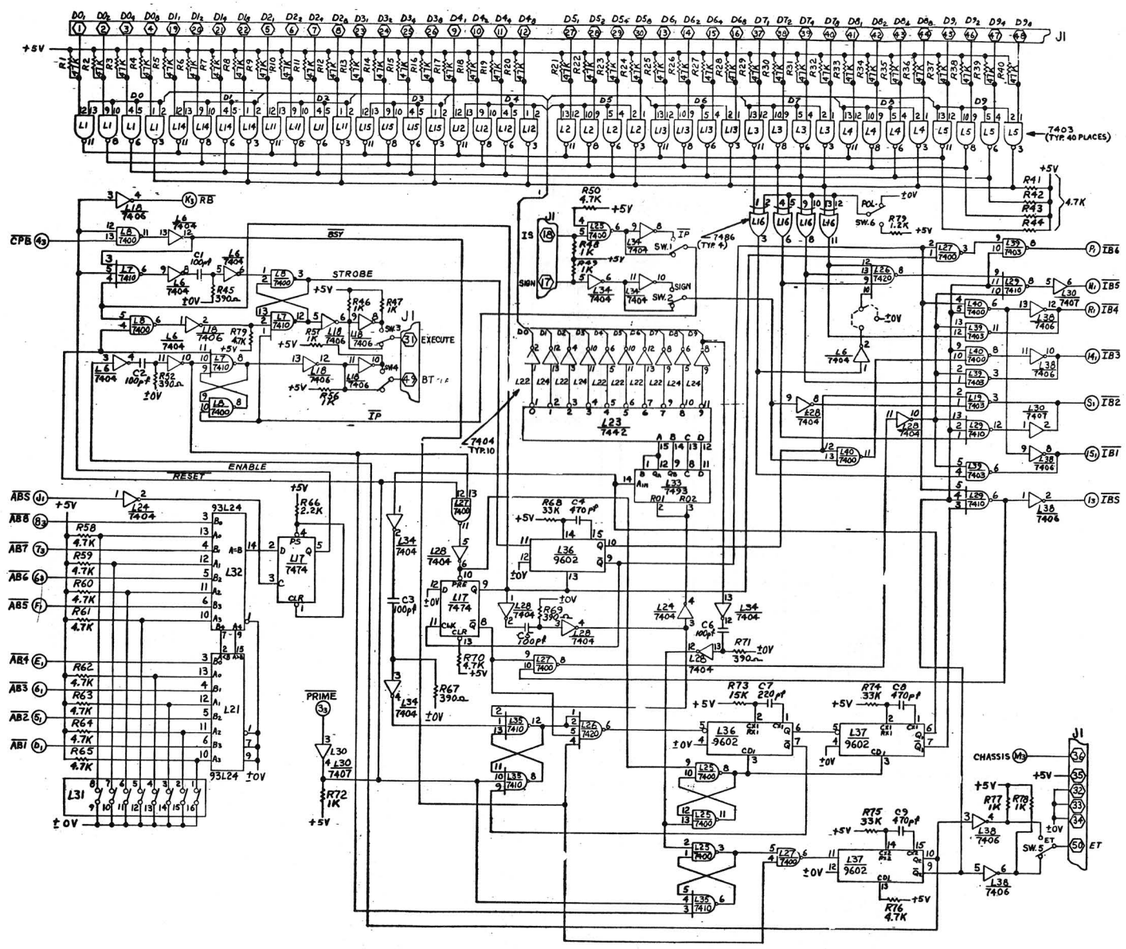
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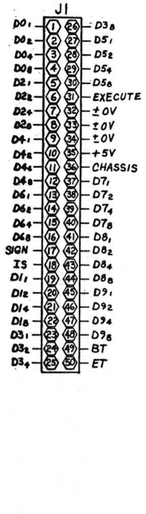
DO NOT SCALE

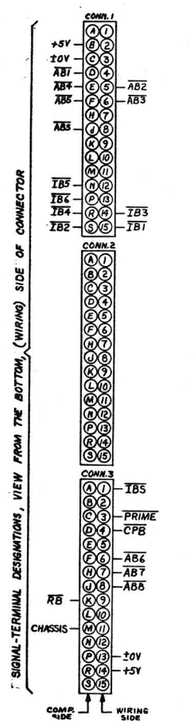
HOLE LEGEND

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

| IDENT. | DESCRIPTION | QTY. |
|---|---|---|
| A | | |




PARTS LIST

| | | | | |
|---|---|---|---|---|
| 1 | | 510-6533 | 6533 PC BOARD | 1 |
| 4 | | 376-0004 | 7400 IC | 2 |
| 3 | | - 0003 | 7410 | 3 |
| 1 | | - 0004 | 7420 | 4 |
| 1 | | - 0008 | 7474 | 5 |
| 1 | | - 0009 | 7442 | 6 |
| 5 | | - 0010 | 7404 | 7 |
| 12 | | - 0013 | 7493 | 8 |
| 1 | | - 0033 | 7403 | 9 |
| 1 | | - 0035 | 7486 | 10 |
| 1 | | - 0036 | 7430 | 11 |
| 1 | | - 0058 | 7407 | 12 |
| 2 | | - 0104 | 9602 | 13 |
| 2 | | 376-0120 | 93L24 IC | 14 |
| | | | | 15 |
| | | | | 16 |
| 1 | | 325-2005 | 8 BANK ROCKER SWITCH | 17 |
| 1 | | 325-2047 | 2 BANK ROCKER SW CAP | 18 |
| | | | | 19 |
| 5 | | 500-1100 | 100 pf CER C | 20 |
| 8 | | - 1503 | .01 pf 25V 20% CER C | 21 |
| 2 | | - 4023 | 15 pf 20V 10% TANT C | 22 |
| 1 | | - 5104 | 100 pf 100V 5% MICA C | 23 |
| 3 | | 500-5472 | 470 pf 300V 5% MICA C | 24 |
| | | | | 25 |
| | | | | 26 |
| | | | | 27 |
| | | | | 28 |
| | | | | 29 |
| | | | | 30 |
| | | | | 31 |
| 6 | | 330-2039 | 390 Ω | 32 |
| 7 | | - 3010 | 1 K | 33 |
| 11 | | - 3014 | 2K | 34 |
| 2 | | - 3022 | 2.2K | 35 |
| 1 | | - 3047 | 4.7K | 36 |
| 1 | | - 4015 | 15 K | 37 |
| 31 | | 330-4033 | 33 K | 38 |
| 14 | | 330-4047 | 47K | 39 |
| | | | | 40 |
| 1 | | 325-2225 | 6 POS. PUSH ON/OFF SWITCH | 41 |
| | | | | 42 |
| | | | | 43 |
| | | | | 44 |
| | | | | 45 |
| | | | |

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DO NOT SCALE

## COMPONENT CHART

| QTY | PART NUMBER | DESCRIPTION | LOCATION |
|---|---|---|---|
| 1 | 110-6534 | | |
| 2 | 376-0159 | SN74SC174N | LF2 |
| 5 | -0137 | SN74173N | L23,25,31,35 |
| 1 | -0161 | SN74LO4N | L5 |
| 1 | -0139 | SN7414N | L6 |
| 1 | -0163 | SN74LS08N | L7 |
| 1 | 376-0157 | SN74LI64N | L8 |
| SEE LOADING CHART | 377-0009 | 1702A | L9,10,11,12 |
| 2 | 376-0120 | 93L24 | L13,30 |
| 4 | -0155 | SN74LS153N | L14,15,16,17 |
| 1 | -0156 | SN74LS74 | L19 |
| 1 | -0114 | MM5026 | L20 |
| 1 | 376-0160 | SN74LS175N | L22 |
| 1 | 376-0154 | SN74L42N | L23 |
| 1 | 376-0158 | SN74LS155N | L24 |
| 2 | 376-0098 | SN7404N | L25,26 |
| 1 | 377-0006 | 4004 | L27 |
| 1 | 377-0007 | 4002 | L28 |
| 1 | 377-0008 | 4008 | L29 |
| 2 | 376-0162 | 93L16 | L33,34 |
| 1 | -0078 | NE555V | L36,37 |
| 1 | -0109 | 9309 | L38 |
| 5 | -9003 | 14PIN IC SOCKET (9002) | |
| 11 | 376-0004 | 16PIN IC SOCKET | L21 |
| 1 | 305-1503 | 8BAIL ROCKER SW | J21 |
| 1 | 328-9047 | 8BAIL ROCKER SW CAP | |
| 1 | 321-6058 | 40 MC OSC OSC | |
| 2 | 375-1011 | 2T544 TRANS | Q1,2 |
| 1 | -0018 | 2N3637 TRANS | Q3 |
| 2 | -9004 | TRANSPAD | SMALL |
| 1 | 375-9001 | TRANSPAD | LARGE |
| M | 300-1903 | .01 UF 25VCER | C14,7,12 C15 THRU 24 |
| 5 | -1043 | 47 PF CERC | C2,3,5 |
| 1 | -1813 | .0082UF 200V CER | C6 |
| 2 | -1820 | 220 PF CERC | C8,9 |
| 2 | -1818 | 1 UF 25V CERC | C4,11 |
| 1 | -1200 | .033 UF CERC | C13 |
| 2 | 300-4022 | 15UF 20V TANTC | C1,10 |
| 1 | 380-2100 | 1N5234 ZENER | D1 |
| 1 | 380-1001 | SIGNAL SIL | D2 |
| 31 | 330-4010 | 10 K | R1 THRU 31 RIGHT 47 |
| 2 | -2015 | 150 Ω | R9,37 |
| 15 | -2039 | 330 Ω | R1 THRU 15 & R34 & 35 |
| 3 | -3010 | 1 K | R32,33,36 |
| 2 | 330-2027 | 47 KΩ | R32,38 |
| 2 | 331-2047 | 47 KΩ 1/4 WATT 10% | R32,33,38 |
| 1 | 330-4049 | 2.2 K | R39 |
| 1 | -2018 | 470 Ω | R40 |
| 1 | -3011 | 1 K | R37 |
| 2 | 330-2022 | 2.7 K | R40,41 |
| 2 | 330-2015 | 2.2 K | R42,43 |
| 2 | -3022 | 2.2 K | R43,44 |
| 1 | -3043 | 4.3 K | R46 |
| 1 | -4022 | 2.2 K | R48 |
| 1 | 330-1047 | 47 K | R49 |

## 1702A PROGRAM LOADING CHART

| QTY | PART NUMBER | DESCRIPTION | LOCATION |
|---|---|---|---|
| | DELETED | 6534 | |
| | | 1702 A | L9 |
| | 378-0273 | 1702 A | L10 |
| | 378-0274 | 1702 A SPECIAL | L11 |
| | 378-0272 | 1702 A | L12 |

## SUPPLY VOLTAGE

| I.C. LOCATION | PIN No. +5V | PIN No. +12 & -5VR |
|---|---|---|
| L1,2,3,4,13,14,15,16, 17,18, 23,23,29,30,31,32,33,39 | 8 | 16 |
| L5,6,7,8,12,25,26,36 | 7 | 14 |
| L35,37 | 1 | 8 |

## HOLE LEGEND

| | HOLE DIA. | TOL. |
|---|---|---|
| DRILLED OR PUNCHED HOLE TOLERANCES: | .0135 to .125 | ±.002 |
| | .126 to .250 | ±.003 |
| | .251 to .500 | ±.004 |
| | .501 to .500 | ±.007 |

| IDENT | DESCRIPTION | QTY |
|---|---|---|
| A | | |

## CONN. 1

| | | |
|---|---|---|
| +5VR | A1 | |
| ±0V | B2 | |
| ±0V | C3 | ±0V |
| $\overline{AB_2}$ | D4 | |
| $AB_2$ | E5 | $\overline{AB_2}$ |
| $AB_3$ | F6 | $AB_3$ |
| OBS | G7 | |
| ABS | H8 | |
| $\overline{IB_7}$ | J9 | |
| $\overline{IB_6}$ | K10 | |
| $\overline{IB_5}$ | L11 | |
| $\overline{IB_4}$ | M12 | |
| $\overline{IB_3}$ | N13 | $\overline{IB_3}$ |
| $\overline{IB_2}$ | P14 | $\overline{IB_1}$ |
| | R15 | |
| | S16 | |

## CONN. 2

| | | |
|---|---|---|
| | A1 | |
| | B2 | |
| | C3 | |
| | D4 | |
| | E5 | |
| | F6 | |
| | H7 | |
| | J8 | |
| | K9 | |
| | L10 | |
| | M11 | |
| | N12 | |
| | P13 | |
| | R14 | |
| | S15 | |

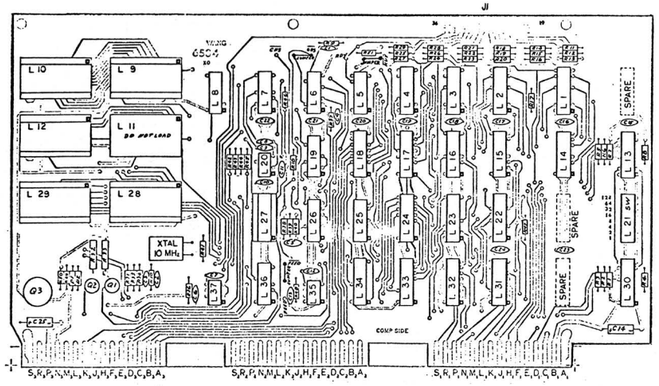
## CONN. 3

| | | |
|---|---|---|
| $\overline{OB_7}$ | A1 | $\overline{IBS}$ |
| $\overline{OB_6}$ | B2 | $\overline{IB_8}$ |
| $\overline{OB_5}$ | C3 | PRMS |
| $\overline{OB_4}$ | D4 | $\overline{CPB}$ |
| | E5 | $\overline{CBS}$ |
| | F6 | $\overline{AB_4}$ |
| | M7 | $\overline{AB_1}$ |
| | J8 | $AB_8$ |
| $\overline{N/B}$ | K9 | |
| | L10 | |
| | M11 | |
| -12V | N12 | |
| ±0V | P13 | ±0V |
| | R14 | +5VR |
| | S15 | |

COMP. SIDE — WIRING SIDE

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

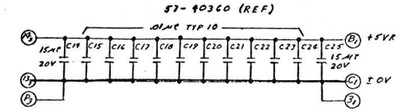
## COMPONENT LAYOUT




## J1

| | | |
|---|---|---|
| FEED | 32 | IM |
| | 31 | ±0V |
| | 30 | ±0V |
| RDY | 29 | ±0V |
| FLAR | 28 | ±0V |
| CARD | 27 | ±0V |
| HPR | 26 | ±0V |
| STKR | 25 | ±0V |
| RALR | 24 | ±0V |
| $R_9$ | 23 | R9 |
| $R_8$ | 22 | R8 |
| $R_7$ | 21 | R7 |
| $R_6$ | 20 | R6 |
| $R_{12}$ | 19 | R3 |
| $R_{11}$ | 18 | R2 |
| $R_{10}$ | 17 | R1 |

## 57-9036C (REF)




ECN NO. 4153 PENDING

| REVISION | DATE | BY |
|---|---|---|
| A | | |

| WANG PART NO | ITEM | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

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

MATERIAL — MODEL NO. 2237

SEE ENGRG SPECIFICATIONS No.

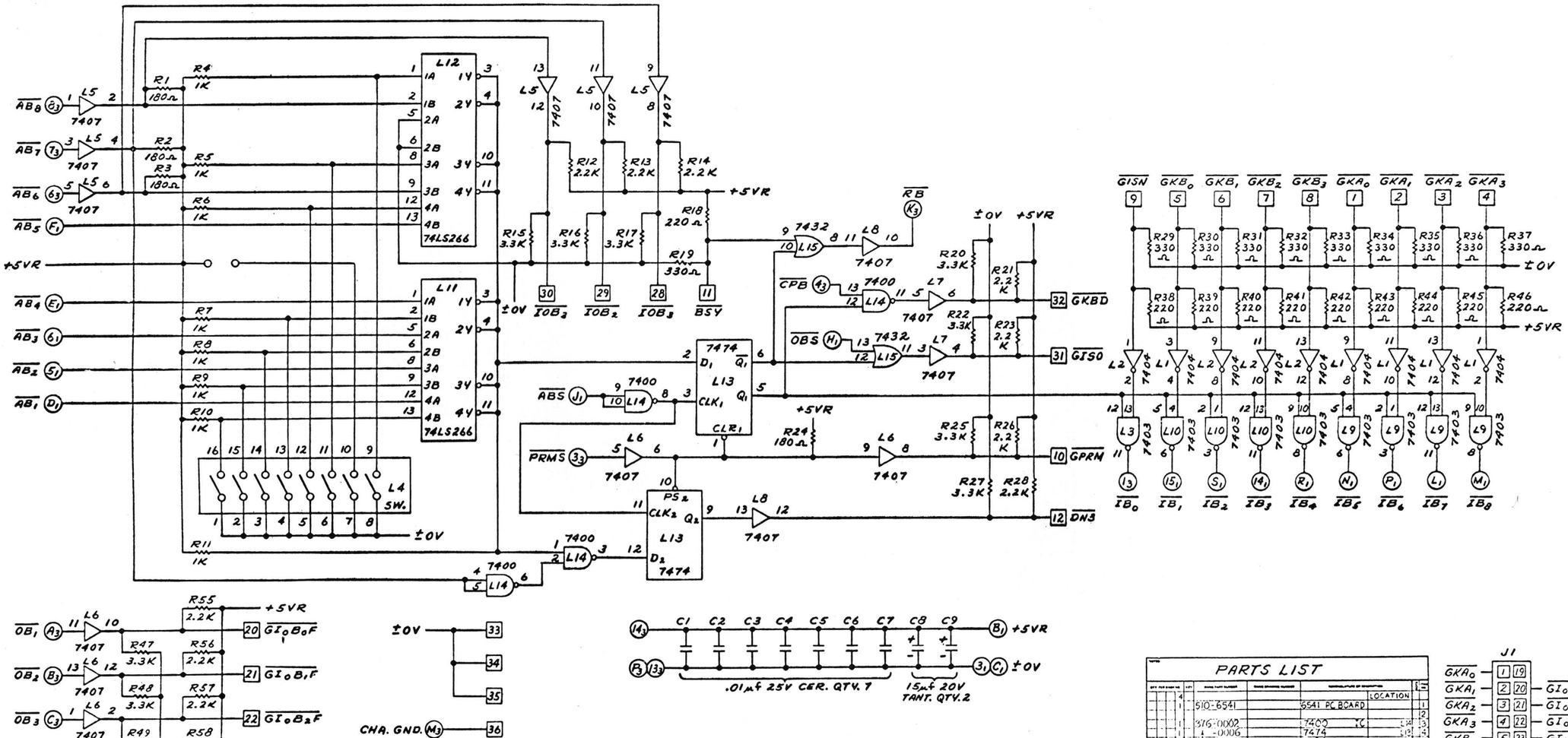
FINISH

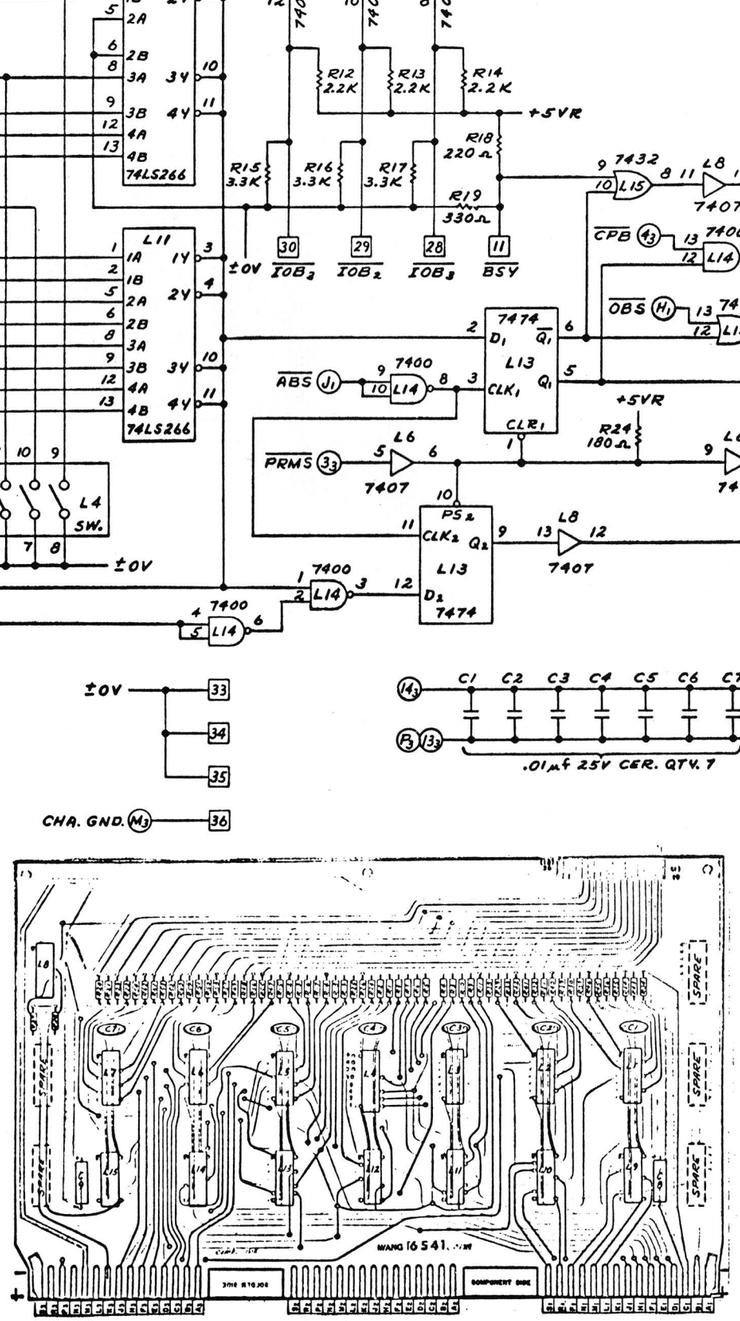
TOL. EX. AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH

| BY | DATE | APPROVED BY | DATE |
|---|---|---|---|
| DWN JS | 7/22/74 | ENGR C FW | 7/24/74 |
| CHK | | M ENGR | |
| E C CONTROL | | MFG ENGR | |

TITLE: SCHEMATIC, LOGIBLOC CARD READER CONTROL BOARD

SCALE — SHT — OF — WANG PART NUMBER — SIZE E — DRAWING NUMBER 6537-1 — REV 0




| I.C. LOCATION | TERM. FOR ±0V | TERM. FOR VCC +5VR |
|---|---|---|
| L1,2 | 7 | 14 |
| L3,9,10 | 7 | 14 |
| L4, SWITCH | 1 THRU 8 | |
| L5,6,7,8 | 7 | 14 |
| L11,12 | 7 | 14 |
| L13 | 7 | 14 |
| L14 | 7 | 14 |
| L15 | 7 | 14 |

## PARTS LIST

| QTY | PART NUMBER | DRAWING NUMBER | DESCRIPTION OF EQUIPMENT | LOCATION |
|---|---|---|---|---|
| 4 | | | | |
| 1 | 510-6541 | | 6541 PC BOARD | |
| 1 | 376-0002 | | 7400 IC | L4 |
| 1 | -0006 | | 7474 | L13 |
| 2 | -0010 | | 7404 | L1,2 |
| 1 | -0028 | | 7403 | L9,10 |
| 14 | -0056 | | 7407 | L5,6,7,8 |
| 1 | -0093 | | 7432 | L15 |
| 2 | 376-0148 | | 74LS266 IC | L11,12 |
| 1 | 325-1503 | | 8 BANK ROCKER SW | L4 |
| 1 | 325-9047 | | 8 BANK ROCKER SW CAP | |
| 7 | 200-1903 | | .01 UF 25V +20% CER | C1 THRU 7 |
| 2 | 300-4022 | | 15 UF 20V 10% TANT | C8,9 |

6541-4 — 2 of 3

ALL RESISTORS ¼W 10% UNLESS SPECIFIED OTHERWISE

| QTY | PART NUMBER | DRAWING NUMBER | DESCRIPTION OF EQUIPMENT | LOCATION |
|---|---|---|---|---|
| 14 | | | | |
| 12 | 330-2018 | | 150 Ω | R1,2,3,24 |
| 10 | -2022 | | 220 Ω | R15,R38-46 |
| 10 | -2033 | | 330 Ω | R13,R29-37 |
| 8 | -3010 | | 1 K | R4-11 |
| 5 | -3022 | | 2.2 K | R12-14,21,23 |
| | | | | R16,R55-62 |
| | | | | R17-20,22 |
| 14 | 330-3033 | | 3.3 K | R25,27-54 |
| X | | D6541-1 | SCHEMATIC | |

6541-4 — 3 of 3

J1

| | | |
|---|---|---|
| GKA0 | 1 19 | |
| GKA1 | 2 20 | GI0B0F |
| GKA2 | 3 21 | GI0B1F |
| GKA3 | 4 22 | GI0B2F |
| GKB0 | 5 23 | GI0B3F |
| GKB1 | 6 24 | GI0A0F |
| GKB2 | 7 25 | GI0A1F |
| GKB3 | 8 26 | GI0A2F |
| GISN | 9 27 | GI0A3F |
| GPRM | 10 28 | I0B1 |
| BSV | 11 29 | I0B2 |
| DN3 | 12 30 | I0B3 |
| | 13 31 | GI |
| | 14 32 | GKBD |
| | 15 33 | ±0V |
| | 16 34 | ±0V |
| | 17 35 | ±0V |
| | 18 36 | CHA. GND. |

CONN.1 — SIGNAL-TERMINAL DESIGNATIONS, VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR

| | | |
|---|---|---|
| +5VR | B 2 | |
| ±0V | C 3 | ±0V |
| AB1 | D 4 | |
| AB4 | E 5 | AB2 |
| AB5 | F 6 | AB3 |
| OBS | H 7 | |
| ABS | J 8 | |
| | K 9 | |
| IB7 | L 10 | |
| IB8 | M 11 | |
| IB5 | N 12 | |
| IB6 | P 13 | |
| IB4 | R 14 | IB3 |
| IB2 | S 15 | IB1 |

CONN.2

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

CONN.3

| | | |
|---|---|---|
| OB1 | A 1 | IB0 |
| OB2 | B 2 | |
| OB3 | C 3 | PRMS |
| OB4 | D 4 | CPB |
| OBS | E 5 | |
| OB7 | F 6 | AB6 |
| OB6 | H 7 | AB7 |
| OB5 | J 8 | AB8 |
| RB | K 9 | |
| CHA. GND. | L 10 | |
| | M 11 | |
| | N 12 | |
| ±0V | P 13 | ±0V |
| | R 14 | +5VR |
| | S 15 | |

COMP. SIDE — WIRING SIDE

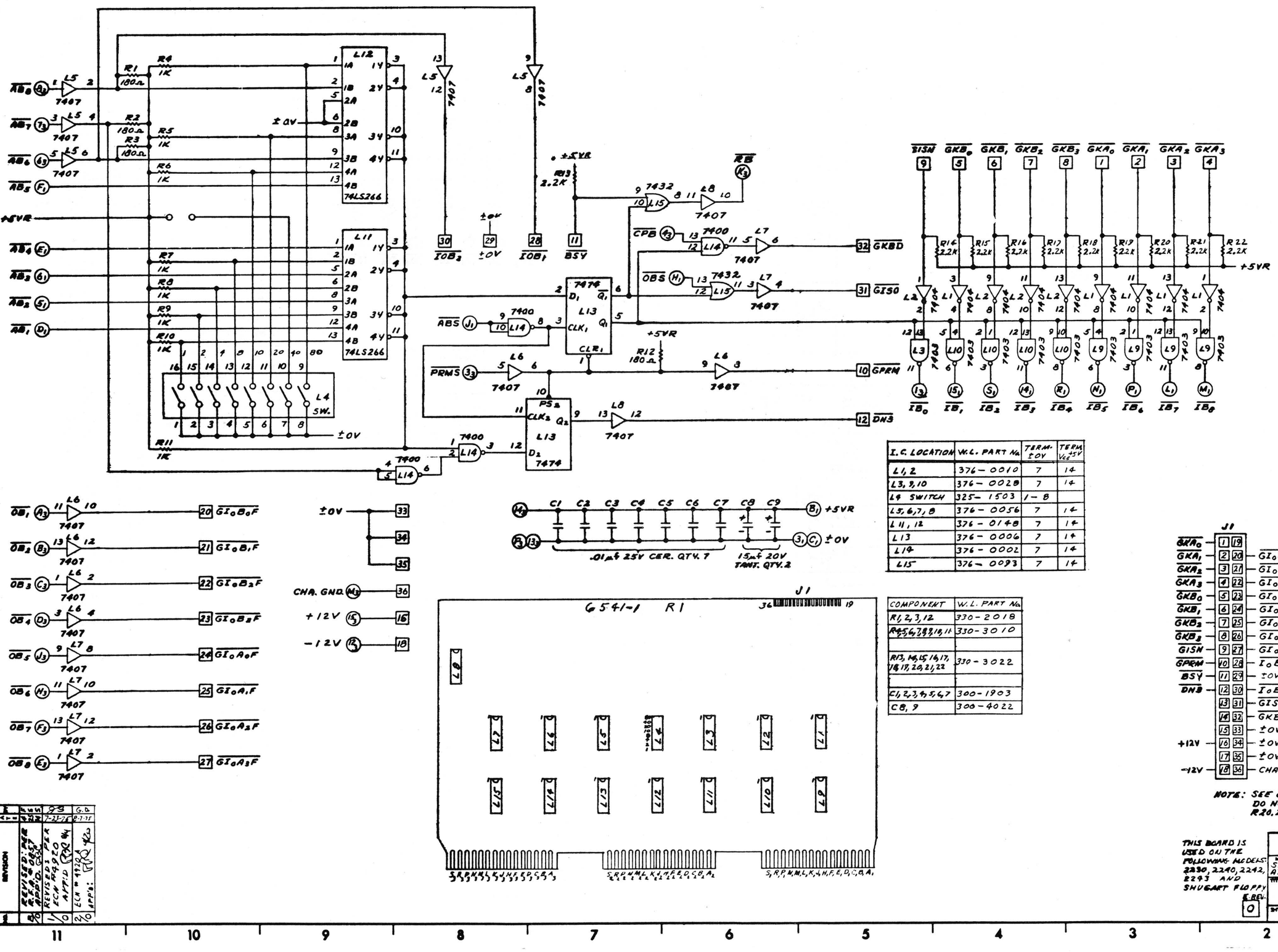
PREPRODUCTION

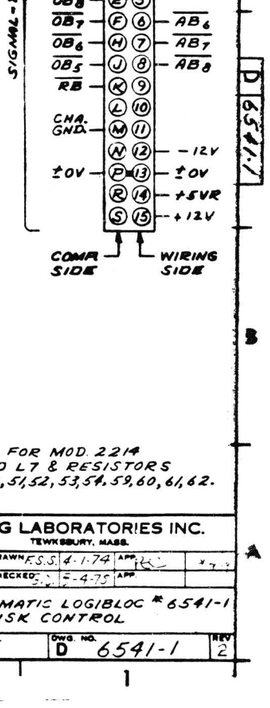
NOTE: SEE 6541-10 FOR MOD. 2214
DO NOT LOAD L7 & RESISTORS
R20,21,22,23,51,52,53,54,59,60,61,62.

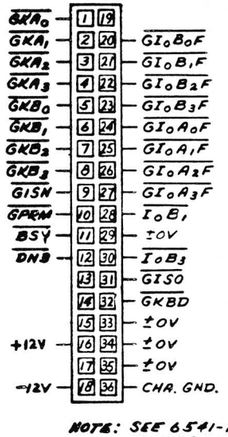
| NO. | REVISION | BY | DATE |
|---|---|---|---|
| B | REVISED PER E.F.A. # 0857 APP'D. CCC | MS | 2/5 |

| USED ON MOD.NO. | WANG LABORATORIES INC. TEWKSBURY, MASS. | | | |
|---|---|---|---|---|
| MOD. 2230 FIXED DISK | MODEL NO. SHOWN AT LEFT | DRAWN F.S.S. | 1-1-74 | APP. |
| MOD. 2240 DOUBLE DISK | | CHECKED | | APP. |
| MOD. 2242 SINGLE DISK | TITLE SCHEMATIC LOGIBLOC # 6541 DISK CONTROL | | | |
| MOD. 2243 TRIPLE DISK | SHT 1 OF 1 | DWG. NO. D 6541-1 | | REV B |

D 6541-1




| I.C. LOCATION | W.L. PART No. | TERM. ±0V | TERM. Vcc +5V |
|---|---|---|---|
| L1, 2 | 376-0010 | 7 | 14 |
| L3, 9, 10 | 376-0028 | 7 | 14 |
| L4 SWITCH | 325-1503 | 1-8 | |
| L5, 6, 7, 8 | 376-0056 | 7 | 14 |
| L11, 12 | 376-0148 | 7 | 14 |
| L13 | 376-0006 | 7 | 14 |
| L14 | 376-0002 | 7 | 14 |
| L15 | 376-0093 | 7 | 14 |

| COMPONENT | W.L. PART No. |
|---|---|
| R1, 2, 3, 12 | 330-2018 |
| R4, 5, 6, 7, 8, 9, 10, 11 | 330-3010 |
| R13, 14, 15, 16, 17, 18, 19, 20, 21, 22 | 330-3022 |
| C1, 2, 3, 4, 5, 6, 7 | 300-1903 |
| C8, 9 | 300-4022 |

NOTE: SEE 6541-10 FOR MOD. 2214
DO NOT LOAD L7 & RESISTORS
R20, 21, 22, 23, 51, 52, 53, 54, 59, 60, 61, 62.

THIS BOARD IS USED ON THE FOLLOWING MODELS: 2230, 2240, 2242, 2243 AND SHUGART FLOPPY

E.REV. 0

WANG LABORATORIES INC.
TEWKSBURY, MASS.

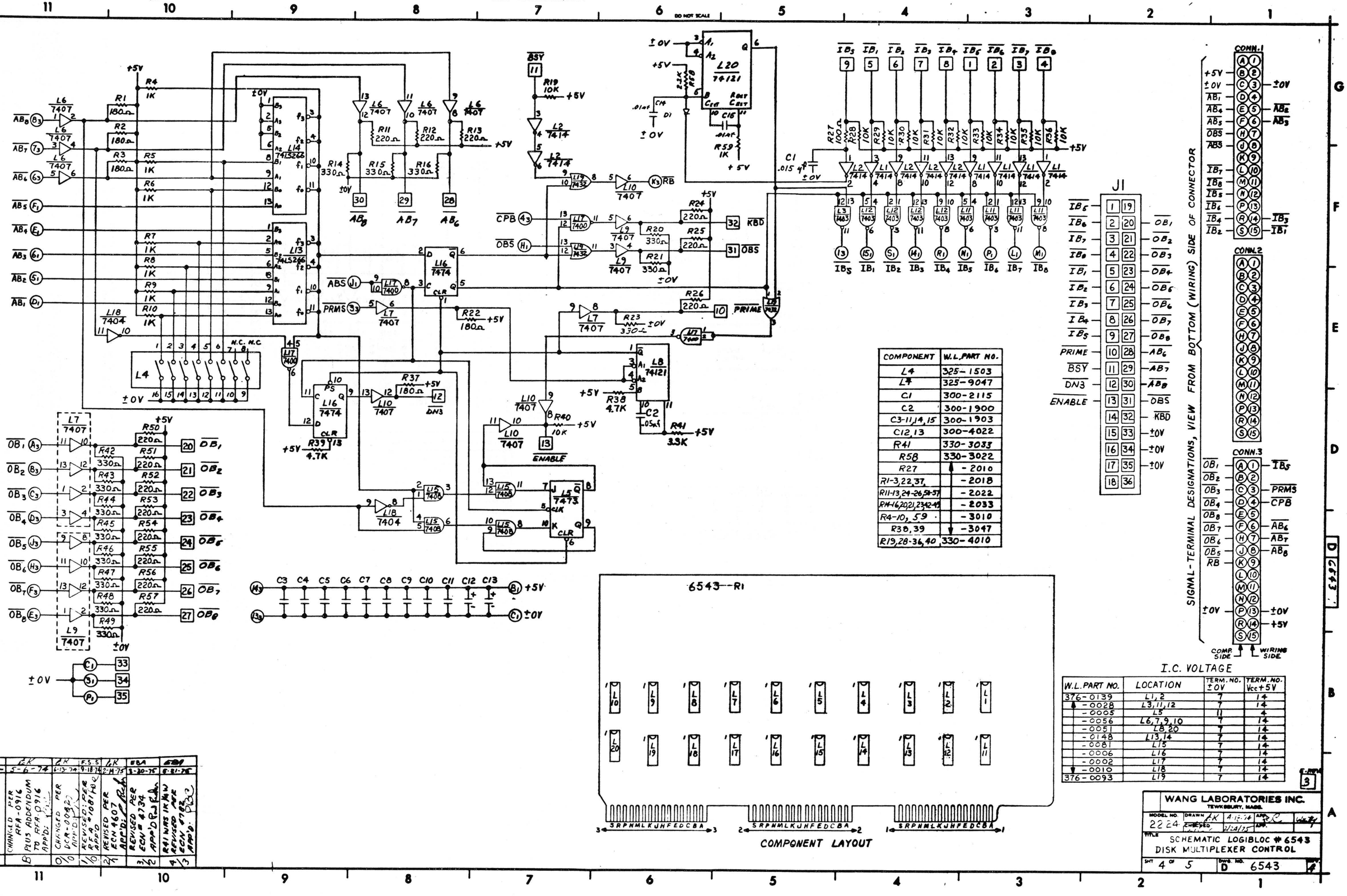
MODEL NO. SHOWN AT LEFT | DRAWN F.S.S. 4-1-74 | CHECKED | APP.

TITLE: SCHEMATIC LOGIBLOC # 6541-1 DISK CONTROL

SHT 4 OF 5 | DWG. NO. D 6541-1 | REV 2

| REVISION | BY | DATE | APP'D |
|---|---|---|---|
| REVISED PER ECN 4932 DEC REVISED PER ECN 4932 0 | GD | 7-23-74 | G.D |
| | | 8-7-74 | |

ECN # 4932A APP'D: [illegible]




| COMPONENT | W.L. PART NO. |
|---|---|
| L4 | 325-1503 |
| L4 | 325-9047 |
| C1 | 300-2115 |
| C2 | 300-1900 |
| C3-11,14,15 | 300-1903 |
| C12,13 | 300-4022 |
| R41 | 330-3033 |
| R58 | 330-3022 |
| R27 | -2010 |
| R1-3,22,37, | -2018 |
| R11-13,24-26,31-37 | -2022 |
| R14-16,20,21,23,42-49 | -2033 |
| R4-10, 59 | -3010 |
| R38,39 | -3047 |
| R19,28-36,40 | 330-4010 |

J1

| | | |
|---|---|---|
| IB5 | 1 19 | OB1 |
| IB6 | 2 20 | OB2 |
| IB7 | 3 21 | OB3 |
| IB8 | 4 22 | OB4 |
| IB1 | 5 23 | OB5 |
| IB2 | 6 24 | OB6 |
| IB3 | 7 25 | OB7 |
| IB4 | 8 26 | OB8 |
| IB5 | 9 27 | AB6 |
| PRIME | 10 28 | AB7 |
| BSY | 11 29 | AB8 |
| DN3 | 12 30 | OBS |
| ENABLE | 13 31 | KBD |
| | 14 32 | ±0V |
| | 15 33 | ±0V |
| | 16 34 | ±0V |
| | 17 35 | |
| | 18 36 | |

CONN.1

| | | |
|---|---|---|
| +5V | A 1 | ±0V |
| ±0V | B 2 | ±0V |
| AB1 | C 3 | AB4 |
| AB4 | D 4 | AB5 |
| AB5 | E 5 | OBS |
| OBS | F 6 | ABS |
| ABS | H 7 | IB7 |
| IB7 | J 8 | IB8 |
| IB8 | K 9 | IB5 |
| IB5 | L 10 | IB4 |
| IB4 | M 11 | IB2 |
| IB2 | N 12 | |
| | P 13 | |
| | R 14 | |
| | S 15 | |

CONN.2

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

CONN.3

| | | |
|---|---|---|
| OB1 | A 1 | IB5 |
| OB2 | B 2 | |
| OB3 | C 3 | PRMS |
| OB4 | D 4 | CPB |
| OB8 | E 5 | |
| OB7 | F 6 | AB6 |
| OB6 | H 7 | AB7 |
| OB5 | J 8 | AB8 |
| RB | K 9 | |
| | L 10 | |
| | M 11 | |
| | N 12 | |
| ±0V | P 13 | ±0V |
| | R 14 | +5V |
| | S 15 | |

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

COMP. SIDE — WIRING SIDE

I.C. VOLTAGE

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

6543—R1




COMPONENT LAYOUT

| REVISION | DR | DR | F.S. | LK | EBA | EBA |
|---|---|---|---|---|---|---|
| | 5-6-74 | 6-12-74 | 9-18-74 | 12-11-74 | 3-20-75 | 8-21-75 |
| CHANGED PER RFA-0916 PLUS ADDENDUM TO RFA-0916 APP'D: | | | | | | |
| B | | 01 | | | | |
| CHANGED PER ECN-0082 APP'D: | | | | | | |
| REVISED: PER RFA #1081 NC APP'D: | | | 1 | | | |
| REVISED PER ECN 4607 APP'D: | | | | 2 | | |
| REVISED PER ECN # 4734 APP'D: | | | | | 3 | 2 |
| R41 WAS 1K NOW REVISED PER ECN #4782 APP'D: | | | | | 4 | 3 |

WANG LABORATORIES INC.
TEWKSBURY, MASS.

MODEL NO. 2224 | DRAWN LK 4-15-74 | CHECKED | APP'D

TITLE: SCHEMATIC LOGIBLOC # 6543
DISK MULTIPLEXER CONTROL

SHT 4 OF 5 | DWG. NO. D 6543 | REV 4

D 6543

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HOLE LEGEND

| SYMBOL | HOLE DIA. | TOL. |
|---|---|---|
| DRILLED ON | .025 to .130 | ± .005 |
| PUNCHED HOLE | .134 to .250 | ± .007 |
| TOLERANCES: | .261 to .386 | ± .010 |

| SHEET | DESCRIPTION | QTY |
|---|---|---|
| A | | |

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

CONN. 1: +12VR, +5VR, ±0V, R7, R10, R11, R5, R0, R6
CONN. 2: PDS, IC0, IC1, IC2, R16, R17, R18, R19, ID4, ID2, R12, R13
CONN. 3: R14, R15, R4, R1, ID1, R2, D1N, IA1, IA4, IA2, IB1, IA3, IB4, IC1, IB2, IB3, ±0V, +5VA
CONN. 4: COMP. SIDE, WIRING SIDE

BASIC PARTS LIST

| QTY | WL. PART NO | COMPONENT | LOCATION |
|---|---|---|---|
| SEE | LOADING CHART | 1702A | L1,2,3,4,5,6 |
| 7 | 376-0028 | 9935 | L7-10,16,17,19 |
| 5 | 376-0082 | SN74157N | L11-15 |
| 1 | 376-0007 | SN7476N | L18 |
| 1 | 376-0008 | SN7862N | L20 |
| 6 | 376-0010 | SN74064N | L21,28,32 |
| 1 | 376-0085 | SN74109N | L22 |
| 5 | 376-0137 | 8T10 | L23-27 |
| 6 | 376-9003 | 16 PIN SOCKET | L1,2,3,4,5,6 |
| 2 | 380-4000 | EM 403 | D1, D2 |
| 4 | 300-1903 | .01 +80-20% CER | |
| 2 | 300-4022 | 47pf 10% TANT | |
| 42 | 330-3010 | 1 K 1/4W 5% | |

I.C. VOLTAGE

| LOCATION | TERM. NO. = 0V | TERM. NO. VCC = +5V |
|---|---|---|
| L1-6 | 14 | 12 |
| L7-10,16,17,19 | 7 | 14 |
| L11-15 | 8 | 16 |
| L18 | 13 | 5 |
| L20 | 8 | 16 |
| L21,28-32 | 7 | 14 |
| L22 | 7 | 14 |
| L23-27 | 8 | 16 |

LOADING CHART

| QTY | W.L. PART NO. | COMPONENT | LOCATION |
|---|---|---|---|
| 1 | 378-0343 | | L1 |
| 1 | 378-0342 | | L2 |
| 1 | 378-0346 | | L3 |
| 1 | 378-0340 | | L4 |
| 1 | 378-0339 | | L5 |
| 1 | 378-0341 | | L6 |
| 198 | 380-1001 28 | SIL DIODE 28V | |
| 306 | 380-1001 98 | SIL DIODE 28V | |

NOTE:-
1 — SEE SCHEMATIC DWG.# 6547-18, FOR VARIATION 1A/1AB
2 — SEE SCHEMATIC DWG.# 6547-18, FOR VARIATION 4-B/4-BB
3 — SEE SCHEMATIC DWG.# 6547-13, FOR VARIATION 8GK

| REVISION | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| A CREATED PER DWR 7351 | | | | |
| B CHANGED PER DWR 7351 | | | | |

| WANG PART NO. | ITEM | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | WANG LABORATORIES, INC. TEWKSBURY, MASS., U.S.A. | DWN | DATE 7-14-72 |
| | | | MATERIAL | MODEL NO 2200 | CHK |
| | | | | SEE ENGR SPECIFICATIONS No. | M ENGR |
| | | | FINISH | TOL EX AS NOTED XX ± .010 FRAC ± 1/64 .XXX ± .005 ANG ± 1° 30' FINISH | M MFGR |
| | | | | | I.C. CONTROL |
| | | | | | MKG ENGR |

TITLE SCHEMATIC LOGIBLOC 6547 FOR VERSION C1E

| SCALE | SHT 12 OF 13 | WANG PART NUMBER | SIZE | DRAWING NUMBER | REV. |
|---|---|---|---|---|---|
| | | 210-6547-5 | E | 6547-19 | 0 |

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DO NOT SCALE

IA1 IA2 IA4 IA8 IB1 IB2 IB4 IB8 IC1 IC2 IC4 IC8 ID1 ID2

74C4 TYP.28

1886
1E85
0B6C
18D5
09E0
1EC6
1B89
19AC
0936
0BFC
16F2
1FB0
1FE3
0BA5

9935 TYP.32

ALL RESISTORS: 1K, 1/4W, ±10% +5VR

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

C 16 8 4 2 1

00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 10 11 12 13 14 15 16 17 18 19 1A 1B 1C 1D 1E 1F

A0 A1 A2 A3 A4 A5 A6 A7

+5VR R33 1K

+5VR R34 R35

+5VR R36 R37 R38 R39

+10V R41 1K

+5VR R40 1K

+5VR R42 1K

ID4 ID2 ID1 ID8

L20 7442 (ASP SPD)

L21 7404

L18 7476

L22 7404

L19 9935

L19 9935

L19 9935

L14 74157 L13 74157 L12 74157 L11 74157 L15 74157

L26 8T10 L25 8T10 L24 8T10 L23 8T10 L27 8T10

L3 1702A L1 1702A L2 1702A

L6 1702A L4 1702A L5 1702A

-12VR D1 EM403 D2 EM403

CS

Vcc Vgg Vdd

DO0 DO1 DO2 DO3 DO4 DO5 DO6 DO7

PDS

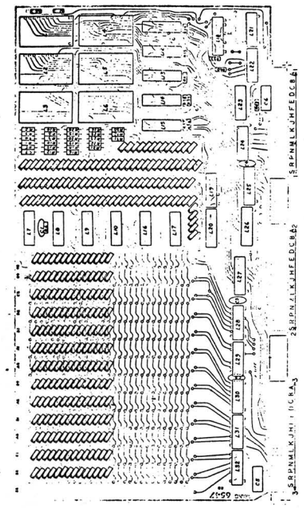
DIN

R19 R18 R17 R16 R15 R14 R13 R12 R11 R10 R9 R8 R7 R6 R5 R4 R3 R2 R1 R0

C1 C2 C3 C4 C5 C6 +5V +10V

NOTES:

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



COMPONENT LAYOUT

HOLE LEGEND

| | HOLE DIA. | TOL |
|---|---|---|
| DRILLED OR PUNCHED HOLE | .0135 to .125 | ± .003 |
| TOLERANCES: | .126 to .250 | ± .005 |
| | .251 to .500 | ± .010 |

| IDENT. | DESCRIPTION | QTY |
|---|---|---|
| A | | |

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

CONN.1
-12VR A1
+5V B1
±0V C1
R7 K1 R8 K2
R10 M1 R9 M2
R11 N1 N2
R5 R1 R4 R2
R6 S1 S2

CONN.2
IC8 A1
PDS B1
IC4 B2
IC2 C2
R16 E2
R17 G2
R18 L2
R19 M2
ID4 N1
ID2 P1
R12 R1
R13 S2

CONN.3
R14 A1
R15 B2
R0 C2
R1 E2
ID1 F2
R3 K1
DIN L1
IA1 K2
IB4 L2
IA2 L1
IC1 M2
IB1 M1
IB2 N2
IB8 P2
±0V P1
+5V R1
R2 S2

COMP. SIDE — WIRING SIDE

BASIC PARTS LIST

| QTY | PART NUMBER | DESCRIPTION | LOCATION |
|---|---|---|---|
| 1 | 510-6547 | 6547 P.C. BOARD | |
| SEE CHART | 377-0009 | 1702 PROGRAM | L2345 |
| 1 | 376-0025 | 9935 | L7-10, 16, 17, 19 |
| 1 | -0028 | SN 74S74N | L8, 13 |
| 1 | -0029 | SN 7416N | L18 |
| 1 | -0030 | SN 7404N | L22 |
| 6 | -0031 | SN 7442N | L20, 21 |
| 1 | -0032 | SN 7476N | L18 |
| 1 | -0033 | 8T10 | L23-27 |
| 6 | 376-3003 | 24 PIN IC SOCKET | |
| 2 | 380-4000 | EM403 HI-VOLT RECTIFIER | |
| 1 | 380-1001 | D35 SIL DIODE 35V | |
| 1 | 470-1803 | 180uf 25V ELEC. | |
| 2 | 400-4022 | 15uf 20V TANT. C | |
| 12 | 330-3010 | 1K OHM N.W. 10% RES. | |
| 1 | | 6547-1 SCHEMATIC | |

I.C. VOLTAGE

| LOCATION | TERM. NO. ±10V | TERM NO. Vcc +5V |
|---|---|---|
| L1-6 | 14 | 12 |
| L7-10, 16, 17, 19 | 7 | 14 |
| L11-15 | 8 | 16 |
| L18 | 13 | 5 |
| L20 | 8 | 16 |
| L21, 28-32 | 7 | 14 |
| L22 | 7 | 14 |
| L23-27 | 8 | 16 |

1702A PROGRAM LOADING CHART

| LOCATION | 1A | 1AE |
|---|---|---|
| L1 | | 378-0256 |
| L2 | | 378-0255 |
| L3 | | 378-0257 |
| L4 | 378-0244 | 378-0253 |
| L5 | 378-0243 | 378-0252 |
| L6 | 378-0245 | 378-0254 |

| REVISION | BY | DATE | APPROVED |
|---|---|---|---|
| A | ADDED PER ECO 1 AMP 1 | 5-1-76 | |
| B | ADDED PER ECO 1 AMP 2 | 5-1-76 | |

ENGINEERING

| WANG PART NO | ITEM | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| FIRST USED ON | ASSY V.I.O. DIV | | WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A. | BY DWN ZK | DATE 5-1-76 |
| | | | MATERIAL | MODEL NO. 2200 | CHK |
| | | | FINISH | SEE SYSTEM SPECIFICATIONS | E.C. CONTROL |
| | | | | TOL. EX. AS NOTED .XX ± .010 .XXX ± .005 ANG. ± 1/2° FINISH | MFG ENGR |
| | | | | SCALE | SHT OF |

TITLE: SCHEMATIC LOGIBLOC 6547 FOR VERSIONS 1A/1AE.

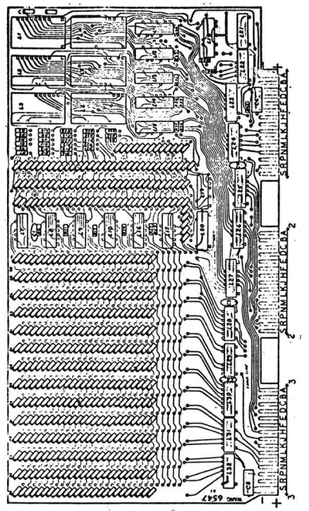
WANG PART NUMBER: E 6547-10 B.

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HOLE LEGEND

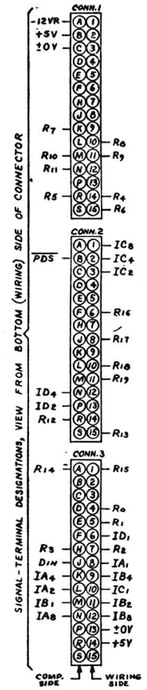
| HOLE DIA. | TOL. |
|---|---|
| DRILLED OR PUNCHED HOLE | .0135 to .135 ± .003<br>.136 to .250 ± .004<br>.251 to .500 ± .005 |

| ISSUE | DESCRIPTION | QTY. |
|---|---|---|
| A | | |




COMPONENT LAYOUT

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




BASIC PARTS LIST

| | | | | | |
|---|---|---|---|---|---|
| | 14 | | | | LOCATION |
| | 1 | 510-6547 | | 6547 PC BOARD | |
| SEE LOGIBLOC 6547-0009 CHART | 1 | 577-0009 | | 1702 PROG ROM | U2345 |
| | 7 | 376-0025 | | 9935 | L7-10,16,17,19 |
| | 2 | 0026 | | SN74S74N | L8-9 |
| | 1 | 0027 | | SN7476N | L18 |
| | 1 | 0028 | | SN7420N | L20 |
| | 6 | 0030 | | SN74041N | L21,28-32 |
| | 5 | 0063 | | SN74041N | L22 |
| | 5 | 0137 | | 8T10 | L23-27 |
| | 6 | 376-9005 | | 24 PIN IC SOCKET | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| X2 | | 380-4000 | | EM4005 HI-VOLT RECTIFIER | |
| X2 | | 380-1001A | | DO35 SIL DIODE 30V | |
| 4 | | 800-1803 | | CAP 25V CERM. | |
| 2 | | 800-4022 | | 15uF 20V TANT. C. | |
| X2 | | 330-3010 | | 1 K OHM .1W 10% RES. | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| X | | E 6547-1 | | SCHEMATIC | |

I.C. VOLTAGE

| LOCATION | TERM. NO. ±0V | TERM NO. Vcc+5V |
|---|---|---|
| L1-6 | 14 | 12 |
| L7-10,16,17,19 | 7 | 14 |
| L11-15 | 8 | 16 |
| L18 | 13 | 5 |
| L20 | 8 | 16 |
| L21,28-32 | 7 | 14 |
| L22 | 7 | 14 |
| L23-27 | 8 | 16 |

1702A PROGRAM LOADING CHART

| LOCATION | B4 | B4E |
|---|---|---|
| L1 | | 378-0294 |
| L2 | | 378-0293 |
| L3 | | 378-0295 |
| L4 | 378-0288 | 378-0291 |
| L5 | 378-0287 | 378-0290 |
| L6 | 378-0289 | 376-0292 |

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

ENGINEERING

| WANG PART NO | ITEM | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

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

| | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| DWN | AR | 5-1-74 | ENGR | |
| CHK | | | M ENGR | |
| E.C. CONTROL | | | MFG ENGR | |

MATERIAL

FINISH

MODEL NO. 2200

SEE SHEETS SPECIFICATIONS

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

SCALE | SHT OF

TITLE SCHEMATIC LOGIBLOC 6547 FOR VERSIONS B4/B4E

E 6547-11 A

WANG PART NUMBER | SIZE | DRAWING NUMBER | REV.

E 6547-11

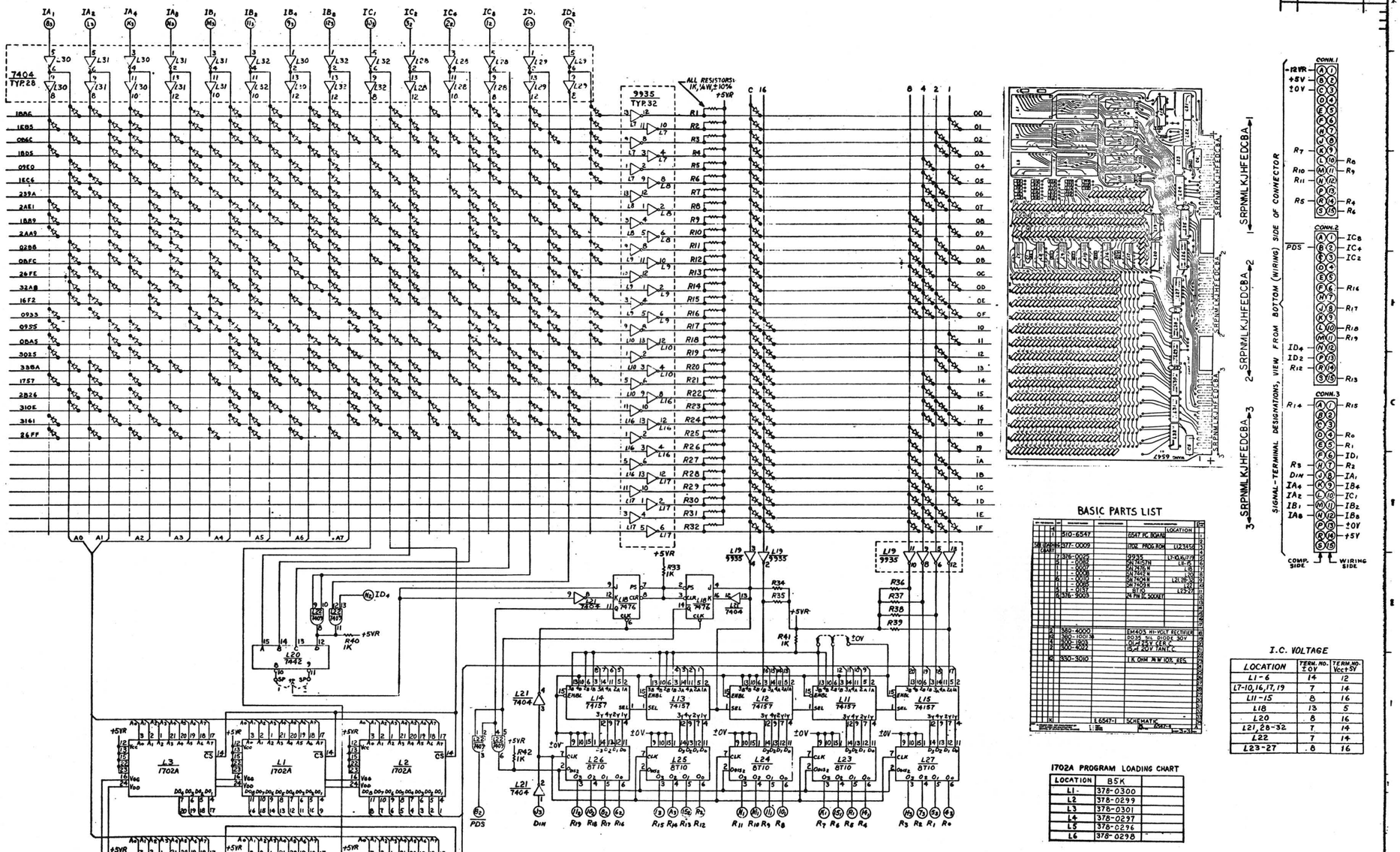
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DO NOT SCALE

HOLE LEGEND

| DRILLED OR PUNCHED HOLE TOLERANCES | HOLE DIA. | TOL. |
|---|---|---|
| | .0135 to .125 | ± .002 |
| | .126 to .250 | ± .003 |
| | .251 to .500 | ± .005 |

| CONT. | DESCRIPTION | QTY |
|---|---|---|
| A | | |






3 SRPNMLKJHFEDCBA

2 SRPNMLKJHFEDCBA

1 SRPNMLKJHFEDCBA

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




BASIC PARTS LIST

| ITEM | QTY | PART NUMBER | DESCRIPTION | LOCATION |
|---|---|---|---|---|
| | 1 | 510-6547 | 6547 PC BOARD | |
| SEE DIODE CHART | 1 | 377-0009 | 1702A PROG ROM | L12,13,15,26 |
| | 7 | 376-0025 | 9935 | L19,20,21,28 |
| | 1 | - 0068 | SN74S74N | L8 |
| | 1 | - 0070 | SN74S10N | L10 |
| | 1 | - 0078 | SN74S11N | L9 |
| | 1 | - 0079 | SN74S08N | L21,28,30 |
| | 1 | - 0081 | SN74S04N | L22 |
| | 1 | - 0083 | 81LS97 | L23,27 |
| | 1 | 376-0005 | 74196 PC SOCKET | |
| | 2 | 350-4000 | DM603 HI-HOLT RECTIFIER | |
| | 2 | 350-1001 TR | DO35 SIL DIODE 3DY | |
| | 1 | 350-0900 | 10 VOLT 5% ZENER | |
| | 2 | 350-0902 | 15.4 VOLT TANTALUM | |
| | 10 | 350-3010 | 1 K OHM .1% W 10% RES. | |

| | | | |
|---|---|---|---|
| | | 6547-1 | SCHEMATIC |

I.C. VOLTAGE

| LOCATION | TERM. NO. ±0V | TERM. NO. Vcc+5V |
|---|---|---|
| L1-6 | 14 | 12 |
| L7-10,16,17,19 | 7 | 14 |
| L11-15 | 8 | 16 |
| L18 | 13 | 5 |
| L20 | 8 | 16 |
| L21,28-32 | 7 | 14 |
| L22 | 7 | 14 |
| L23-27 | 8 | 16 |

1702A PROGRAM LOADING CHART

| LOCATION | 85K | |
|---|---|---|
| L1 | 378-0300 | |
| L2 | 378-0299 | |
| L3 | 378-0301 | |
| L4 | 378-0297 | |
| L5 | 378-0296 | |
| L6 | 378-0298 | |

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

ENGINEERING

| WANG PART NO. | ITEM | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | WANG LABORATORIES, INC. | | |
| | | | MODEL NO. 2200 | | |
| | | | FINISH | | |

| | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| DWN | GK | 5-1-76 | ENGR | |
| CHK | | | M ENGR | |
| E.C. CONTROL | | | MFG ENGR | |

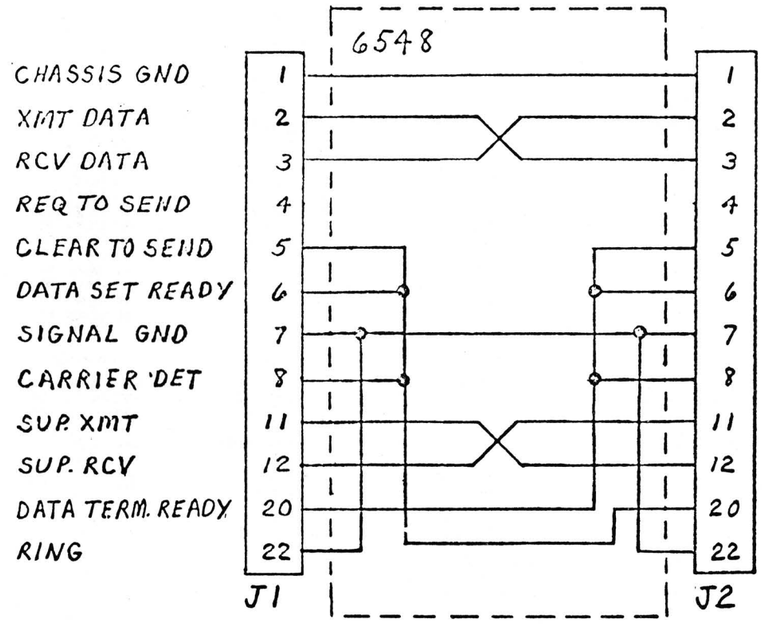
TITLE SCHEMATIC LOGIBLOC 6547 - FOR VERSION 85K

E 6547-12 A

WANG PART NUMBER | SIZE | DRAWING NUMBER | REV.

REVISED PER ECO MFR-0552 APPD: F. PARK

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 | | |

WANG LABORATORIES, INC. — PL 6548-4 — ASSY P/N 210-6548 — SHEET 1 OF 1 — REV A

PREP AM — DATE 4-10-74 — CHK — APPD — APPD

NULL MODEN JUNCTION

| QTY. PER DASH NO | KEY | WANG PART NUMBER | WANG DRAWING NUMBER | NOMENCLATURE OR DESCRIPTION | NOTE | ITEM NO. |
|---|---|---|---|---|---|---|
| | -4 | | | | | |
| 1 | | 510-6548 | | 6548 PC BOARD | | 1 |
| | | | | | | 2 |
| 2 | | 350-1031 | | DB-25S CH CONN 6000 SERIES | | 3 |

| SYM | REVISION DESCRIPTION | DATE | APPROVED | SYM | REVISION DESCRIPTION | DATE | APPROVED |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

KEY: 9- VENDOR ITEM FOR PROCUREMENT OR PART NUMBER SEE SPECIFICATION CONTROL OR SOURCE CONTROL DRAWING; P - FEET; I - INCHES; M - METRIC

NOTES

MODEL 2227 N

PL 6548-4

12-297

| 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. 2227-N

SEE ENGRG SPECIFICATIONS No.

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 M.F. | 4/12/74 | E ENGR | 4-29-74 |
| CHK | | M ENGR | |
| E. C. CONTROL | | MFG ENGR | |

TITLE WIRING DIAGRAM
NULL MODEN JUNCTION

| WANG PART NUMBER | SIZE | DRAWING NUMBER | REV. |
|---|---|---|---|
| | B | 6548-1 | 0 |

| DATE | BY | REVISION | NO. |
|---|---|---|---|

B 6548-1

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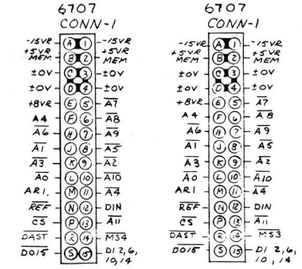
DO NOT SCALE

## HOLE LEGEND

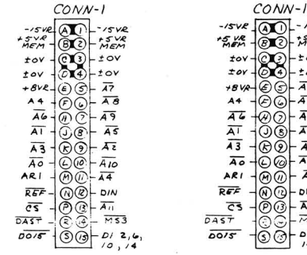
| | HOLE DIA. | TOL. |
|---|---|---|
| DRILLED OR PUNCHED HOLE TOLERANCES: | .0135 to .125 | ±.001 |
| | .126 to .350 | ±.001 |
| | .351 to .500 | ±.001 |

| IDENT. | DESCRIPTION | QTY. |
|---|---|---|
| A | | |

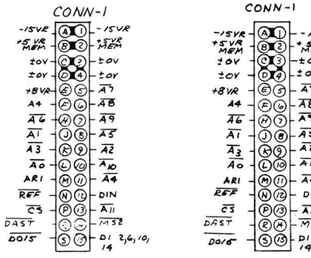
## 6707 CONN-1



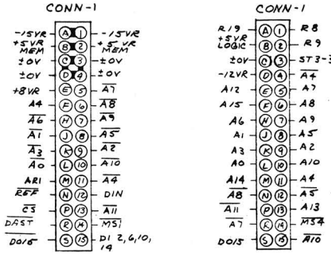

## 6707 CONN-1



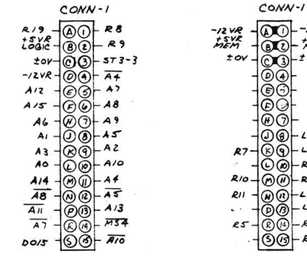

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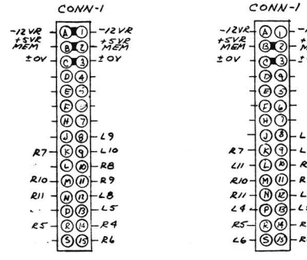

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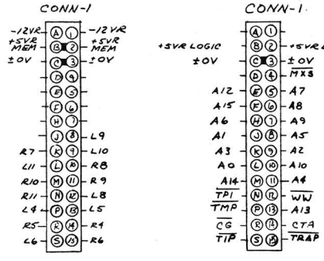

## 6708 CONN-1




## 6725 CONN-1



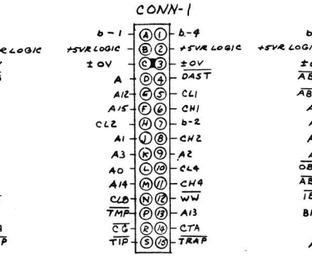

## 6725 CONN-1



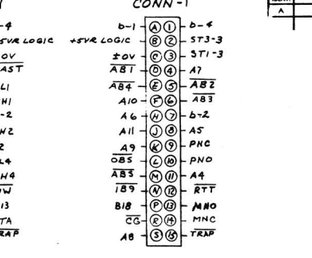

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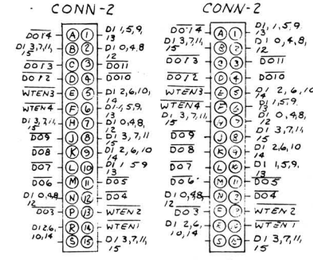

## 6710 CONN-1




## 6311 CONN-1



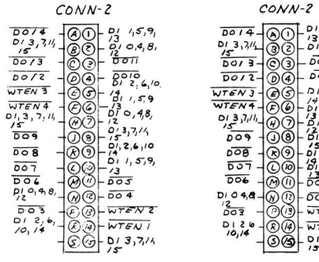

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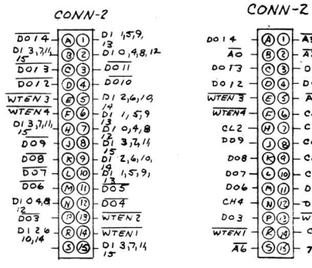

## 6707 CONN-2



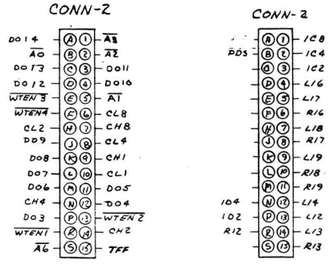

## 6707 CONN-2



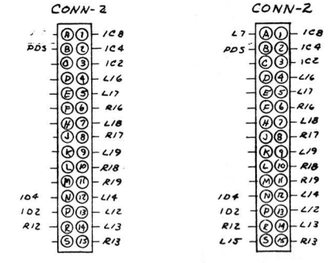

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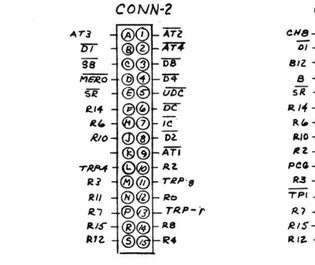

## 6708 CONN-2



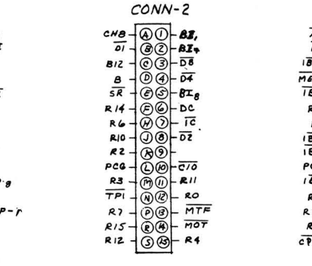

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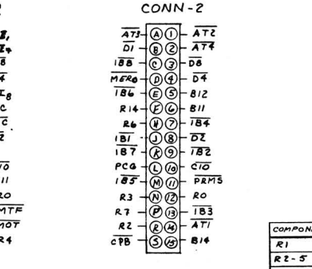

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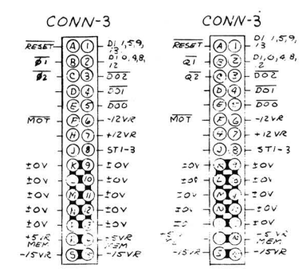

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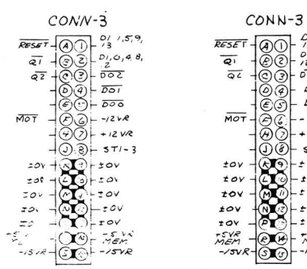

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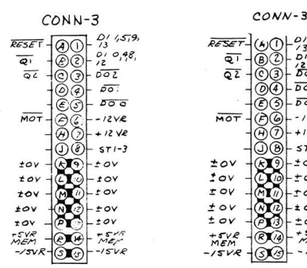

## 6707 CONN-3



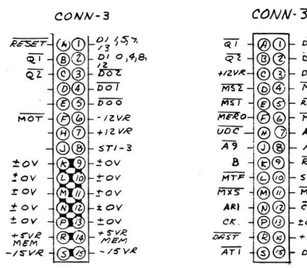

## 6707 CONN-3



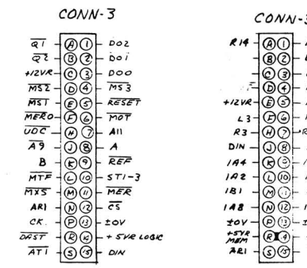

## 6707 CONN-3



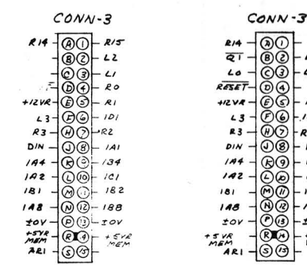

## 6707 CONN-3



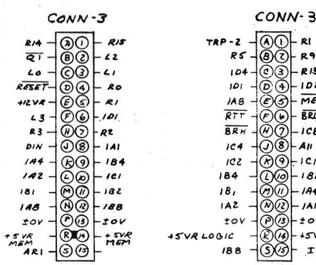

## 6708 CONN-3




## 6725 CONN-3



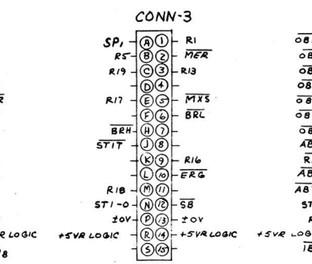

## 6725 CONN-3



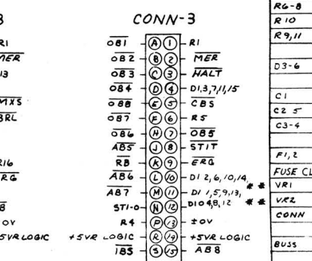

## 6709 CONN-3



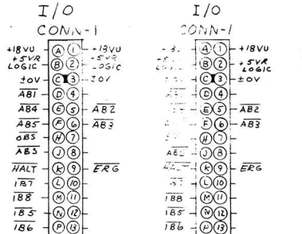

## 6710 CONN-3



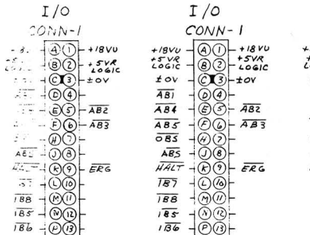

## 6311 CONN-3




## 6707 I/O CONN-1



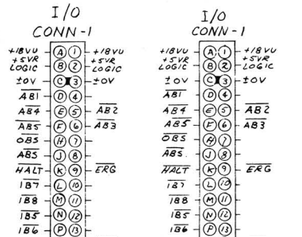

## 6707 I/O CONN-1



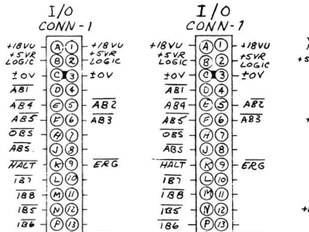

## 6707 I/O CONN-1



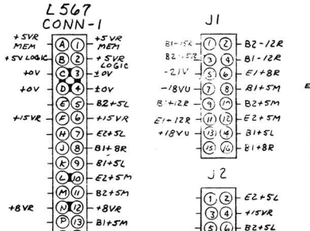

## 6707 I/O CONN-1




## 6708 I/O CONN-1




## L567 CONN-1



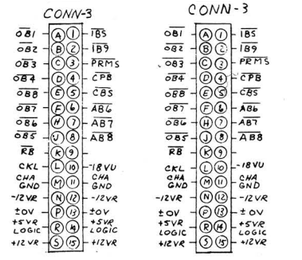

## J1



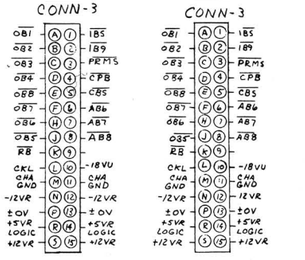

## J2




## 6707 I/O CONN-3



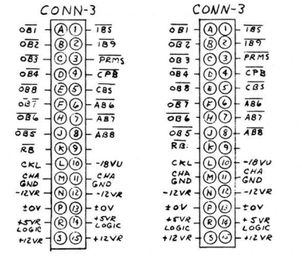

## 6707 I/O CONN-3



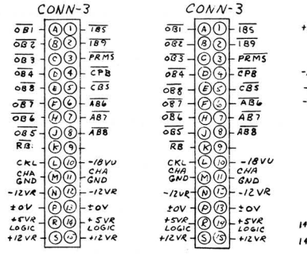

## 6707 I/O CONN-3



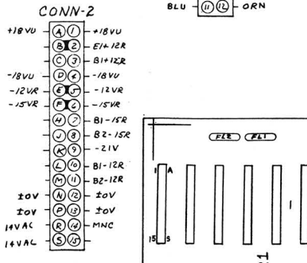

## 6707 I/O CONN-3




## 6708 I/O CONN-3




## L567 CONN-2




R10
12Ω/2.5W
E1+12R — +12VR

R9
6.2Ω/4W
-12VR

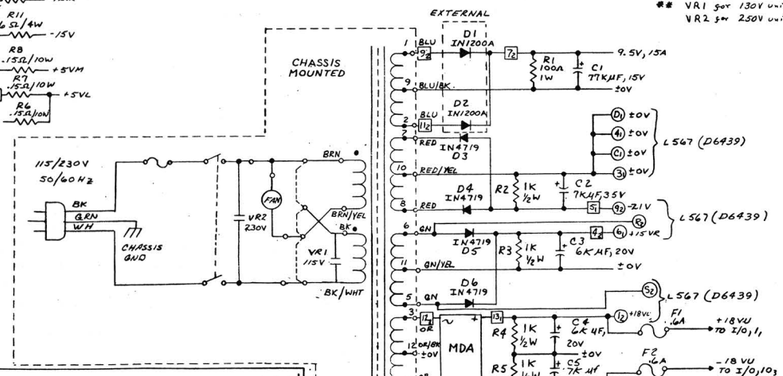
R11
6.2Ω/4W
-15V

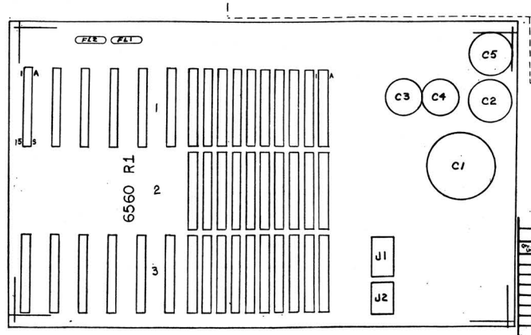
R8
.15Ω/10W
E2+5M — +5VM

R7
.15Ω/10W
E2+5L — +5VL

R6
2.2kΩ

## EXTERNAL




NOTE: TERMINAL DESIGNATIONS VIEWED FROM CIRCUIT (BOTTOM) SIDE OF CONNECTORS

| COMPONENT | WL. PT. NO. | QTY |
|---|---|---|
| R1 | 332-2010 | 1 |
| R2-5 | 331-3010 | 4 |
| R6-8 | 334-0023 | 3 |
| R10 | 334-0014 | 1 |
| R9,11 | 334-0016 | 2 |
| | | |
| D3-6 | 380-3002 | 4 |
| | | |
| C1 | 300-3049 | 1 |
| C2 5* | 300-3068 | 2 |
| C3-4 | 300-3019 | 2 |
| | | |
| F1,2 | 340-1016 | 2 |
| FUSE CLIP | 360-0006 | 4 |
| VR1 | 390-5130 | 1 |
| VR2 | 390-5001 | 1 |
| CONN | 350-3011 | ** |
| | | |
| BUS5 | 604-1154 | 2 |
| | | |
| J1 | 654-1172 | 1 |
| J2 | 654-1177 | 1 |

* 6560 uses 29
6560-1 uses 35

** VR1 for 130V units
VR2 for 250V units

| REVISION | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| Originated | EBA | 6-11-74 | | |
| Revised per ECN 4553 and DCR 226 | EBA | 11-7-74 | | |
| Return to Red DCR 1164 264 | BK | 1-8-75 | | |
| REVISED PER ECN 4553 APPD. | BK | 3-3-75 | | |
| REVISED PER ECN 4553 APPD. | | | | |

| 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 EJP | 10-2-74 E ENGR R. SMITH 12-12-74 |
| | | | | CHK [illegible] | 12-12-74 M ENGR |
| | | | MODEL NO. 2200S | E.C. CONTROL | MFG ENGR |
| | | | SEE ENGRG SPECIFICATIONS No. | TITLE SCHEMATIC FOR 6560 MOTHER BOARD | |
| | | | MATERIAL | | |
| | | | FINISH | TOL. EX. AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG. ± 1°30' FINISH | |
| | | | | SCALE ¾ SHT 4 OF 5 | 210-6560 WANG PART NUMBER / E SIZE / 6560 DRAWING NUMBER / 2 REV |

E-REV 1

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DO NOT SCALE

CHAR. BUFF

LINE BUFF

L5 DO NOT LOAD

+5VR

±0V

-12VR

R1 2.2K

TP8

C2 15μf 20V T

C3 220pf MICA

R9 47K

1702 ROM DELAY

3.3μs

L-RESET

CHAR. BUFF FLAG

LINE BUFF FLAG

B-RESET

SHIFT

NO SHIFT

CASE FLAG

TPZ

ENABLE FLAG

TP1

LINE BUFF STROBE

RDY

RB

TP7

RESET FLAG

RESET

TP3

TP5

R30 390Ω

C10 470pf

C11 C12 C13 C14 C15 C16 C17 C18 C19

15μf 20V(T)

.01μf

C20 15μf 20V(T)

+12V

R3 1K

R4 1K

R5 1K

R6 1K

R7 1K

R8 1K

R11 220Ω

R12 1K

R10 4.7K

C4 1000pf

R13 390Ω

C5 470pf

R14 2.2K

C6 220pf MICA

R17 12K

.9μs

R31 2.2K

R32 1K

STROBE

20μs

EXT. DEVICE STROBE

C7 .0033μf MYLAR

R18 10K

L19 9602

L20 9602

SET-UP STROBE

C8 .220pf MICA

R19 12K

R20 4.7K

C9 220pf MICA

R21 6.8K

.9μs CLEAR LINE BUFF

R33 2.2K

.5μs LATCH CASE

TP4

R41 2.2K

R40 2.2K

R39 2.2K

R38 2.2K

R37 2.2K

R36 2.2K

R35 2.2K

R34 2.2K

R47 6.8K

R51 6.8K

R50 6.8K

R49 6.8K

R48 6.8K

R45 6.8K

R44 6.8K

R43 2.2K

R42 2.2K

GND. FOR 2212/2232

4C

SW.1

74LS266

L16

L15

J1

| J1 | |
|---|---|
| 1 | RI (LSB) |
| 2 | R2 |
| 3 | R2A |
| 4 | R5 |
| 5 | T1 |
| 6 | T2 (MSB) |
| 7 | STROBE |
| 8 | RB |
| 9 | ±0V |
| 10 | |
| 11 | ±0V |
| 12 | +12V |

6561 IR2

COMPONENT LAYOUT

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

| IDENT | DESCRIPTION | QTY. |
|---|---|---|
| A | | |

CONN.1

| | | |
|---|---|---|
| +5VR | B 2 | |
| ±0V | C 3 | |
| $\overline{AB_1}$ | D 4 | |
| $\overline{AB_4}$ | E 5 | $\overline{AB_2}$ |
| $\overline{AB_5}$ | F 6 | $\overline{AB_3}$ |
| $\overline{OBS}$ | H 7 | |
| $\overline{AB_8}$ | J 8 | |
| | K 9 | |
| | L 10 | |
| | M 11 | |
| | N 12 | |
| | P 13 | |
| | R 14 | |
| | S 15 | |

CONN.2

| | | |
|---|---|---|
| | A 1 | TP2 |
| | B 2 | |
| | C 3 | TP1 |
| | D 4 | |
| | E 5 | |
| | F 6 | |
| | H 7 | |
| | J 8 | |
| TP3 | K 9 | |
| | L 10 | |
| | M 11 | |
| | N 12 | TP8 |
| | P 13 | TP3 |
| | R 14 | TP2 |
| | S 15 | TP4 |

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

| LOCATION | W.L. PART NO. | TERM. NO. ±0V | TERM. NO. Vcc +5VR |
|---|---|---|---|
| L4C | 377-0156 | — | 24 |
| L1,2 | 376-0128 | 7 | 14 |
| L3,4 | 376-0013 | 12 | 5 |
| | | | |
| L6,7 | 376-0119 | 8 | 16 |
| L8,12 | 376-0006 | 7 | 14 |
| L9 | 376-0016 | 7 | 14 |
| L10 | 376-0010 | 7 | 14 |
| L11 | 376-0002 | 7 | 14 |
| L13, 9A, 4B | 376-0055 | 7 | 14 |
| L14, 19, 20 | 376-0104 | 8 | 16 |
| L15, 16 | 376-0148 | 7 | 14 |
| L17 | 376-0036 | 7 | 14 |
| L18 | 376-0028 | 7 | 14 |
| L4C | 376-9003 | — | — |

| COMPONENT | W.L. PART NO. |
|---|---|
| R1, ,M, 31, 33-43 | 330-3022 |
| | |
| R3-8, 12, 15, 32 | 330-3010 |
| R9 | 330-4047 |
| R10, 16, 20, 22-29 | 330-3047 |
| R11 | 330-2022 |
| R13, 30 | 330-2039 |
| R17, 19 | 330-4012 |
| R18 | 330-4018 |
| R21, 44-51 | 330-3068 |
| C2, 18, 19, 20 | 300-4022 |
| C3, 6, 8, 9 | 300-5004 |
| C4 | 300-5006 |
| C5, 10 | 300-1470 |
| C7 | 300-2033 |
| C11-17 | 300-1903 |
| SW | 325-9047 |
| SW.1 | 325-1503 |
| J1 | 350-1025 |

| REVISION | BY | DATE | APPROVED |
|---|---|---|---|
| 1/0 | CHANGED PER DCR-330 APP'D: | 5-14-73 | 5-21-73 |
| 2/0 | REVISED PER RMA#178 APP'D: | 5-24-73 | |
| 3/0 | REV. PER ECN#4021 APP'D: | 5-24-73 | |

E REV D

| WANG PART NO | ITEM | QTY | NAME |
|---|---|---|---|
| 2201 | | | |
| 2202 | | | |
| 2212 | | | |
| 2232 | | | |

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

MATERIAL

FINISH

MODEL NO SEE CHART

SEE ENGR'G SPECIFICATIONS

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

SCALE SHT OF

| | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| DWN | SK | 10-8-74 | E ENGR | 11-4-74 |
| CHK | | | M ENGR | |
| E C CONTROL | | | MFG ENGR | |

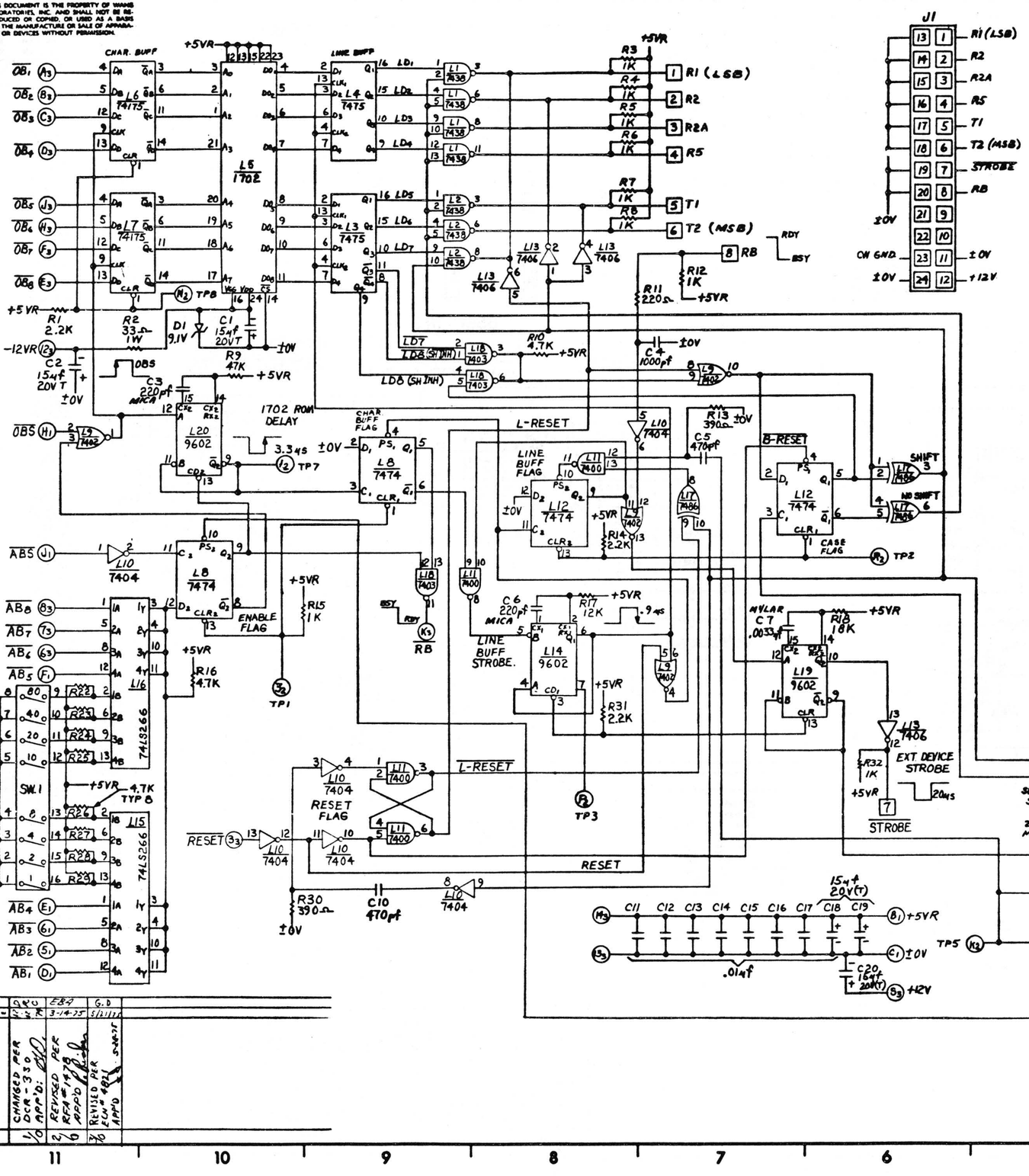
TITLE SCHEMATIC LOGIBLOC 6561 DOUBLE BUFFERD TYPEWRITER/PLOTTER

| WANG PART NUMBER | SIZE | DRAWING NUMBER | REV. |
|---|---|---|---|
| 210-6561 | D | 6561 | 3 |

6561

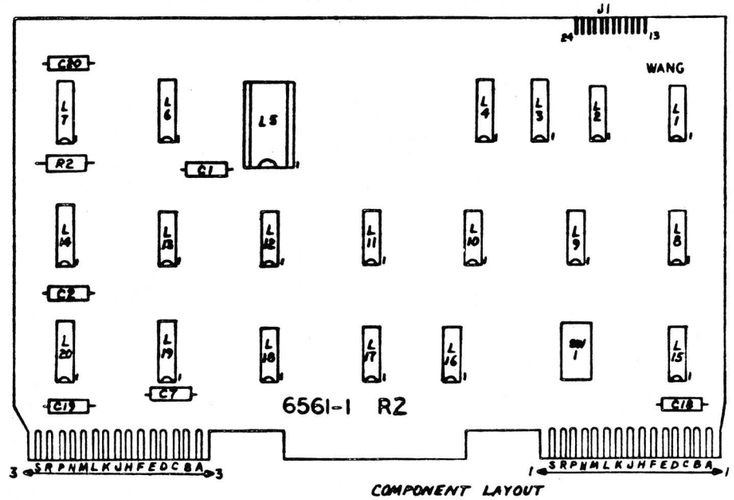
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COMPONENT LAYOUT

| LOCATION | W.L.PART NO. | TERM. NO. ±0V | TERM. NO. VCC+5V |
|---|---|---|---|
| L1,2 | 376-0128 | 7 | 14 |
| L3,4 | 376-0013 | 12 | 5 |
| L5 | 377-0009 | 14 | 12 |
| L6,7 | 376-0119 | 8 | 16 |
| L8,12 | 376-0006 | 7 | 14 |
| L9 | 376-0016 | 7 | 14 |
| L10 | 376-0010 | 7 | 14 |
| L11 | 376-0002 | 7 | 14 |
| L13 | 376-0055 | 7 | 14 |
| L14,19,20 | 376-0104 | 8 | 16 |
| L15,16 | 376-0148 | 7 | 14 |
| L17 | 376-0036 | 7 | 14 |
| L18 | 376-0028 | 7 | 14 |
| L5 | 376-9003 | — | — |

| COMPONENT | W.L. PART NO. |
|---|---|
| R1, 7, 14, 31, 33 | 330-3022 |
| R2 | 332-1033 |
| R3-8, 12, 15, 32 | 330-3010 |
| R9 | 330-4047 |
| R10, 16, 20-22-29 | 330-3047 |
| R11 | 330-2022 |
| R13, 30 | 330-2039 |
| R17, 19 | 330-4012 |
| R18 | 330-4018 |
| R21 | 330-3068 |
| C1, 2, 18, 19, 20 | 300-4022 |
| C3, 6, 8, 9 | 300-5004 |
| C4 | 300-5006 |
| [illegible] | 300-1470 |
| [illegible] | 300-2033 |
| [illegible] | 300-1903 |
| [illegible] | 380-2091 |
| SW. 1 | 325-1503 |
| SW. 1 CAP | 325-9047 |

HOLE LEGEND

| | HOLE DIA | TOL |
|---|---|---|
| DRILLED OR PUNCHED HOLE TOLERANCES | 0.120 to 125 | ±.002 |
| | 126 to 250 | ±.003 |
| | 251 to 500 | ±.005 |

| IDENT | DESCRIPTION | QTY |
|---|---|---|
| A | | |

CONN.1

| | | |
|---|---|---|
| +5VR | A 1 | |
| | B 2 | |
| ±0V | C 3 | |
| $\overline{AB_1}$ | D 4 | |
| $\overline{AB_4}$ | E 5 | $\overline{AB_2}$ |
| $\overline{AB_5}$ | F 6 | $\overline{AB_3}$ |
| $\overline{OB_5}$ | H 7 | |
| $\overline{AB_8}$ | J 8 | |
| | K 9 | |
| | L 10 | |
| | M 11 | |
| | N 12 | |
| | P 13 | |
| | R 14 | |
| | S 15 | |

CONN.2

| | | |
|---|---|---|
| | A 1 | $TP_7$ |
| | B 2 | |
| | C 3 | $TP_1$ |
| | D 4 | |
| | E 5 | |
| | F 6 | |
| | H 7 | |
| | J 8 | |
| $TP_5$ | K 9 | |
| | L 10 | |
| | M 11 | |
| $TP_8$ | N 12 | |
| $TP_3$ | P 13 | |
| $TP_2$ | R 14 | |
| $TP_4$ | S 15 | |

CONN.3

| | | |
|---|---|---|
| $\overline{OB_1}$ | A 1 | |
| $\overline{OB_2}$ | B 2 | |
| $\overline{OB_3}$ | C 3 | RESET |
| $\overline{OB_4}$ | D 4 | |
| $\overline{OB_8}$ | E 5 | |
| $\overline{OB_7}$ | F 6 | $\overline{AB_6}$ |
| $\overline{OB_6}$ | H 7 | $\overline{AB_7}$ |
| $\overline{OB_5}$ | J 8 | $\overline{AB_8}$ |
| $\overline{RB}$ | K 9 | |
| | L 10 | |
| CH. GND | M 11 | |
| | N 12 | -12V |
| | P 13 | ±0V |
| | R 14 | +5VR |
| +12V | S 15 | |

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

E. REV 0

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

| REVISION | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| CHANGED PER ECN 330 APP'D: | F.K. | 10-9-74 | E ENGR | 1-8-75 |
| REVISED PER ECN 478 APP'D | F.K. | 1-6-75 | M ENGR | |
| REVISED PER ECN 4821 APP'D | G.D. | 5/21/75 | MFG ENGR | |

| WANG PART NO | ITEM | QTY | NAME |
|---|---|---|---|
| Qty Per Unit / First Used On / Assy Used On | | | |
| CC11B | | | |
| CC11C | | | |
| CC12B | | | |
| EE32B | | | |

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

MATERIAL

MODEL NO SEE CHART

SEE ENGRG SPECIFICATIONS No.

FINISH

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

SCALE SHT 6 OF 8

TITLE SCHEMATIC LOGIBLOC 6561 DOUBLE BUFFERD TYPEWRITER/PLOTTER

| 210-6561-1 | D | 6561-1 | 3 |
|---|---|---|---|
| WANG PART NUMBER | SIZE | DRAWING NUMBER | REV |

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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 | | |

VARIATION CHART

| VARIATION | JUMPER | E A CHIP | LOCATION |
|---|---|---|---|
| 2215 | TO +12VR THRU R34 | 377-0225 | L29 |
| 2222 | TO ±0V | 377-0225 | L29 |
| 2223 | TO +12VR THRU R34 | 377-0260 | L29 |

| LOCATION | W.L. PART NO. | TERM. NO. ±0V | TERM. NO. Vcc +5V |
|---|---|---|---|
| L1,34 | 376-0104 | 8 | 16 |
| L2 | -0108 | 8 | 16 |
| L3,11,30,46 | -0002 | 7 | 14 |
| L4,5 | -0069 | 8 | 16 |
| L6 | -0047 | 8 | 16 |
| L7,18,19 | -0011 | 10 | 5 |
| L8 | -0126 | | 8 |
| L9,22,40,42,44 | -0028 | 7 | 14 |
| L10,15,26,32,33,47 | -0010 | 7 | 14 |
| L12,27,45,49 | -0056 | 7 | 14 |
| L13,24,28 | -0006 | 7 | 14 |
| L14 | 376-0016 | 7 | 14 |
| L16 | 377-0000 | | 5/8 |
| L17,39 | 376-0055 | 7 | 14 |
| L21,31 | 376-0004 | 7 | 14 |
| L23,35,36,37 | 376-1048 | 7 | 14 |
| L26,48 | 376-0003 | 7 | 14 |
| L29(SOCKET) | 376-9003 | | |
| L41 | 376-0119 | 8 | 16 |
| L43 | 376-0098 | 8 | 16 |
| L25,38 | 325-1503 | | |
| L25,38 | 325-9047 | | |

| COMPONENT | W.L. PART NO. |
|---|---|
| R1-9,11,16-24, 61,62,34-42,44, 66-75,77,80 | 330-3047 |
| R10,13,14,46,53, 76,79,81-86 | -3010 |
| R12,25-32,34, 47,48,67,76 | -3022 |
| R15,44,45,63,64 | -2039 |
| R33 | -3012 |
| R35-42 | -3068 |
| R43,49,50 | 330-4033 |
| R65 | 337-1033 |
| C1 | 300-2015 |
| C2 | -5006 |
| C3,20-22 | -4022 |
| C4,6,7,12,13 | -1906 |
| C5,9,10 | -5005 |
| C8,11 | -4001 |
| C14-19 | 300-1903 |
| D1 | 380-2091 |
| D2,3 | 380-0000 |
| J1 REF | 350-1027 |
| J2 REF | 350-1025 |
| C23 | 300-1914 |

E-REV 2

| REVISION | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| A CHANGED PER ECO-0276 MARKED-UP PRINT ADDED J1 PER | | 3-16-74 | | 3-18-74 |
| B CHANGED PER ECO-0315 MARKED-UP PRINT ADDED L21, L31 PER MARKED-UP PRINT | | 5-13-75 | | 5-15-75 |
| C CHANGED PER ECO-1368 MARKED-UP PRINT ADDED L23, L35, L36, L37 PER MARKED-UP PRINT | | 6-19-75 | | 6-19-75 |
| D CHANGED PER RFA-1497, ECO-1368 | | 7-3-75 | | 7-3-75 |
| E MISC. REVISIONS PER ECN-4673 CHANGED PER RFA-1497, ECO-1368 ADDED L25,38 PER ECN-4650 | | 8-11-76 | | 8-11-76 |

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

CONN.1: +12VUR, +5V, ±0V, $\overline{AB_1}$, $\overline{AB_2}$, $\overline{AB_4}$, $\overline{AB_5}$, $\overline{AB_6}$, $\overline{AB_7}$, $\overline{AB_8}$, CBS, ABS, HALT, $\overline{IB_5}$, $\overline{IB_8}$, TP1, TP2, $\overline{IB_4}$, $\overline{IB_3}$, $\overline{IB_2}$, $\overline{IB_1}$

CONN.2: TP4, TP1, TP5, TP6, TP3, TP7, TP2

CONN.3: $\overline{IB_5}$, $\overline{IB_1}$, PRIME, $\overline{CPB}$, $\overline{GB_4}$, $\overline{GB_5}$, $\overline{GB_6}$, $\overline{GB_7}$, $\overline{GB_8}$, $\overline{RB}$, CH.GND, -12VR, ±0V, +5V

MAY 19 1977

| WANG PART NO. | ITEM | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A. | | |
| | | | MODEL NO 2215/2217/2218/ 2220/2222/2223 SEE ENGRG SPECIFICATIONS | MATERIAL | |
| | | | TOL. EX. AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG. ± 1°30' FINISH | FINISH | |
| | | | SCALE SHT 4 OF 5 | 210-6562 WANG PART NUMBER | E SIZE 6562 DRAWING NUMBER |

| BY | DATE | APPROVED BY | DATE |
|---|---|---|---|
| DWN | 2-2-77 | E ENGR | 2-23-77 |
| CHK | 2-6-77 | M ENGR | |
| E.C. CONTROL | | MFG ENGR | |

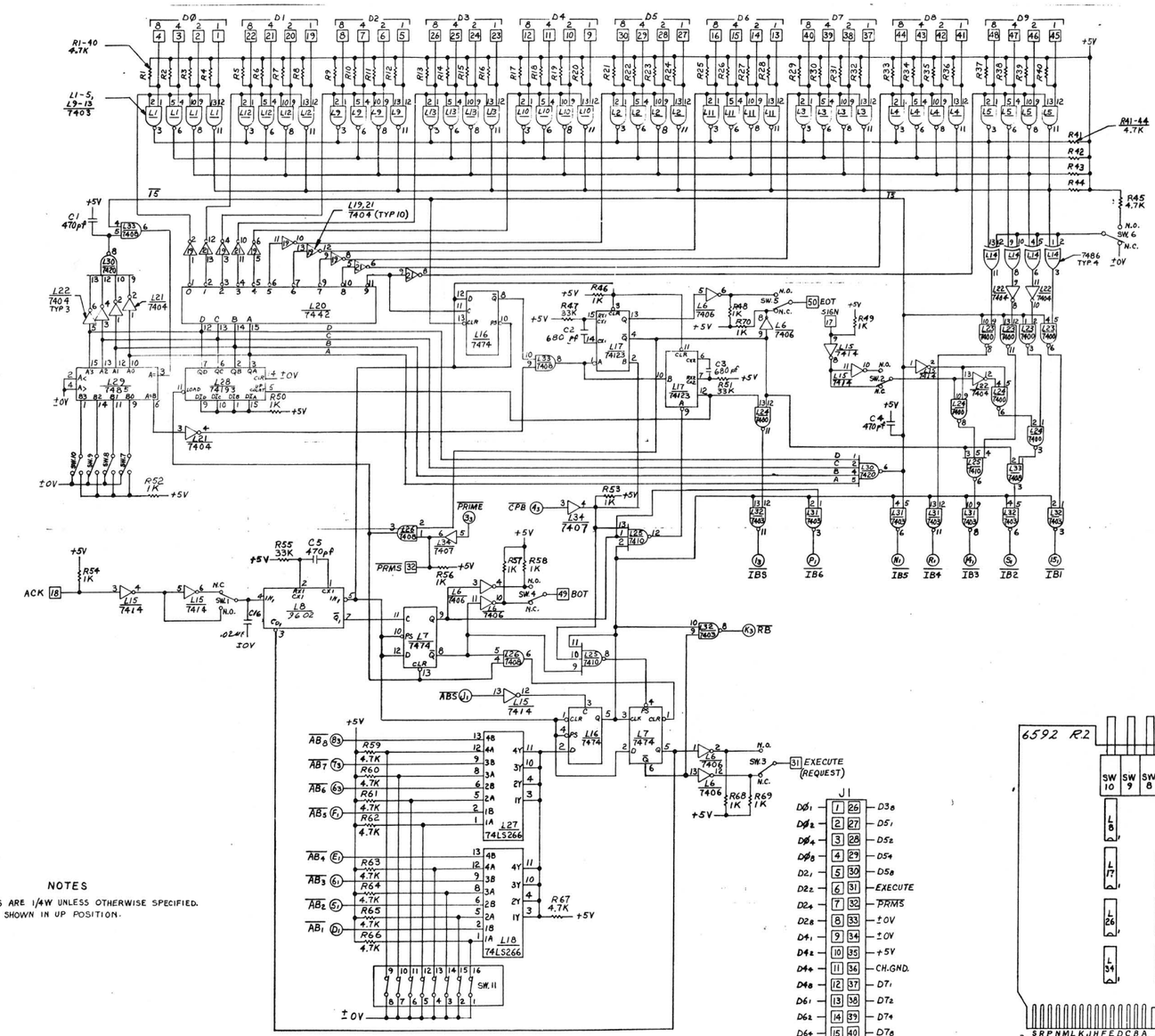
TITLE SCHEMATIC LOGIBLOC FOR CASSETTE & KEYBOARD CONTROLLER

REV. E

SHEET 4

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DO NOT SCALE




NOTES

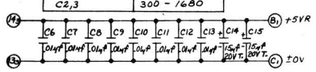
1. ALL RESISTORS ARE 1/4W UNLESS OTHERWISE SPECIFIED.
2. ALL SWITCHES SHOWN IN UP POSITION.

J1

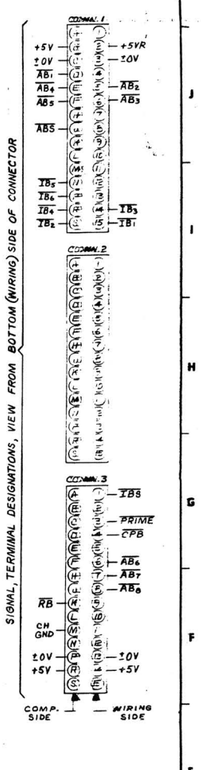
| | | | |
|---|---|---|---|
| D0₁ | 1 | 26 | D3₈ |
| D0₂ | 2 | 27 | D5₁ |
| D0₄ | 3 | 28 | D5₂ |
| D0₈ | 4 | 29 | D5₄ |
| D2₁ | 5 | 30 | D5₈ |
| D2₂ | 6 | 31 | EXECUTE |
| D2₄ | 7 | 32 | PRMS |
| D2₈ | 8 | 33 | ±0V |
| D4₁ | 9 | 34 | ±0V |
| D4₂ | 10 | 35 | +5V |
| D4₄ | 11 | 36 | CH.GND. |
| D4₈ | 12 | 37 | D7₁ |
| D6₁ | 13 | 38 | D7₂ |
| D6₂ | 14 | 39 | D7₄ |
| D6₄ | 15 | 40 | D7₈ |
| D6₈ | 16 | 41 | D8₁ |
| SIGN | 17 | 42 | D8₂ |
| ACK | 18 | 43 | D8₄ |
| D1₁ | 19 | 44 | D8₈ |
| D1₂ | 20 | 45 | D9₁ |
| D1₄ | 21 | 46 | D9₂ |
| D1₈ | 22 | 47 | D9₄ |
| D3₁ | 23 | 48 | D9₈ |
| D3₂ | 24 | 49 | BOT |
| D3₄ | 25 | 50 | EOT |

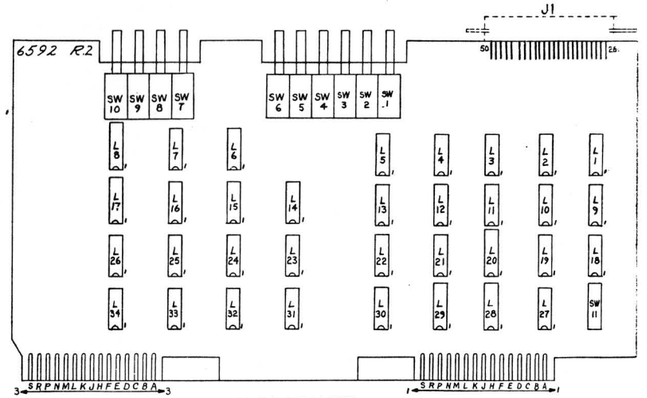
| LOCATION | W.L. PART NO. | TERM.NO ±0V | TERM.NO Vcc+5V |
|---|---|---|---|
| L1-5,9-13,31,32 | 376-0028 | 7 | 14 |
| L6 | -0055 | 7 | 14 |
| L7,16 | -0006 | 7 | 14 |
| L17 | -0080 | 8 | 16 |
| L14 | -0036 | 7 | 14 |
| L19,21,22 | -0010 | 7 | 14 |
| L18,27 | -0148 | 7 | 14 |
| L20 | -0008 | 8 | 16 |
| L23,24 | -0002 | 7 | 14 |
| L25 | -0003 | 7 | 14 |
| L26,33 | -0081 | 7 | 14 |
| L28 | -0053 | 8 | 16 |
| L29 | -0087 | 8 | 16 |
| L30 | -0004 | 7 | 14 |
| L34 | 376-0056 | 7 | 14 |
| L8 | 376-0104 | 8 | 16 |
| L16 | 376-0133 | 7 | 14 |

| COMPONENT | W.L. PART NO. |
|---|---|
| C16 | 300-1904 |
| R1-40 | |
| R41-45,59-67 | 330-3047 |
| R46,48-50,52-54,56-58,68-70 | 330-3010 |
| R47,51,55 | 330-4033 |
| C1,4,5 | 300-1470 |
| C6-13 | 300-1903 |
| C14,15 | 300-4022 |
| SW1-6 | 325-2225 |
| SW7-10 | 325-2222M |
| SW11 | 325-1503 |
| SW11 CAP | 325-9047 |
| J1 | 350-1027 |
| C2,3 | 300-1680 |




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




COMPONENT LAYOUT

ELEC REV 3

MAY 19 1977

| REVISION | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| 9 | TAL | 12-3-76 | | |
| 8 | HH's | 5-3-76 | | |
| 7 | REVISED PER ECO# 4788 | 9-24-75 | | |
| 6 | REVISED PER ECO# 4777 | 7-31-75 | | |
| 5 | REVISED PER ECO# 4760 | 7-11-75 | | |
| 4 | REVISED PER ECO# 4744 | 5-2-75 | | |
| 3 | REVISED PER ECO# 4728 | 3-21-75 | | |
| 2 | REVISED PER ECO# 4702 | 1-24-75 | | |
| 1 | REVISED PER ECO# 4688 | 12-13-74 | | |
| 0 | INITIAL RELEASE | 11-15-74 | | |

| WANG PART NO. | ITEM | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| DWN | FIRST USED ON | ASSY USED ON | WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A. | MODEL NO. 2252A | BY / DATE: DWN RK 12-20-76; CHK 12-30-76 |
| | | | MATERIAL | SEE ENGRG SPECIFICATIONS No. | E.C. CONTROL |
| | | | FINISH | TOL. EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH | TITLE SCHEMATIC LOGIC BOARD 6592 PARALLEL INPUT |
| | | | | SCALE SHT 4 OF 5 | 210-6592 / E / 6592 / J |
| | | | | | WANG PART NUMBER / SIZE / DRAWING NUMBER / REV. |

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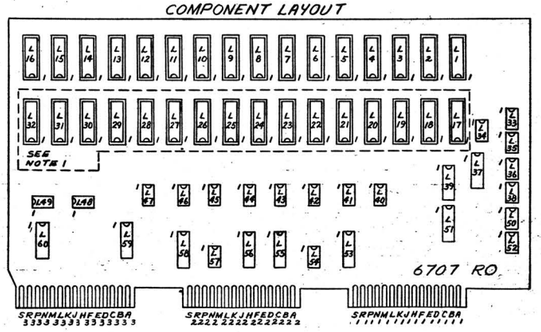
DO NOT SCALE

HOLE LEGEND

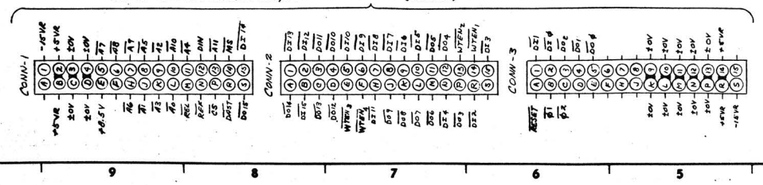
| DRILLED OR PUNCHED HOLE TOLERANCES: | HOLE DIA. | TOL. |
|---|---|---|
| | .0135 to .125 | +.002 -.001 |
| | .126 to .250 | +.004 -.001 |
| | .251 to .500 | +.007 -.001 |

| IDENT. | DESCRIPTION | QTY. |
|---|---|---|
| A | | |

COMPONENT LAYOUT




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




| DESCRIPTION | W.L. NO. | TYPE | QTY. 4K | QTY. 8K |
|---|---|---|---|---|
| C1, 4, 10, 44, 47 | 300-4034 | 47μf 20V | 5 | 5 |
| C2, 3, 6, 7, 8, 9, 11-15, 17-24, 27-35, 37, 38, 43, 44, 46, 48, 51-53, 55 | 300-1930 | .1mf 50V | 38 | 38 |
| C5 | 300-1903 | .01μf CER | 1 | 1 |
| *C50, 26, 36, 39, 41 | 300-1906 | .001μf 200V | 4 | 5 |
| | | | | |
| C16, 42 | 300-1150 | 150μμf CER | 2 | 2 |
| C25 | 300-1220 | 220μμf CER | 1 | 1 |
| C45, 54 | 300-4006 | 4.7μf 35V | 2 | 2 |
| C40 | 300-1082 | 82μμf CER | 1 | 1 |
| D1, 2 | 380-1005 | IN4607 DIODE | 2 | 2 |

| LOCATION | TYPE | GND | VCC | W.L. NO. | QTY. 4K | QTY. 8K |
|---|---|---|---|---|---|---|
| LI-32 | AMS 6003 | — | — | 377-0016 | 16 | 32 |
| L33-36, 38, 50, 52, 54, 57 | SN75360N | 4 | 8 | 376-0118 | 9 | 9 |
| L37, 59 | SN7402N | 7 | 14 | 376-0016 | 2 | 2 |
| L39, 53, 55, 56, 58 | SN7432N | 7 | 14 | 376-0093 | 5 | 5 |
| L40-47 | N8T25 | 4 | 8 | 376-0130 | 8 | 8 |
| L48 | DS0056 | — | — | 376-0173 | 1 | 1 |
| L49 | MN0026 | — | — | 376-0114 | 1 | 1 |
| L51 | SN74H04N | 7 | 14 | 376-0045 | 1 | 1 |
| L60 | SN7407N | 7 | 14 | 376-0056 | 1 | 1 |
| * LI-32 | 22 PIN I.C. SKT. | — | — | 376-9010 | 16 | 32 |

| DESCRIPTION | W.L. NO. | TYPE | QTY. 4K | QTY. 8K |
|---|---|---|---|---|
| * R1-12, 22, 25 | 330-1011 | 10Ω 1/4W 5% | 13 | 14 |
| R13 | 330-2010 | 100Ω 1/4W 10% | 1 | 1 |
| R14, 16, 18, 20 | 330-1023 | 22Ω 1/4W 5% | 4 | 4 |
| R15 | 330-1039 | 39Ω 1/4W 10% | 1 | 1 |
| R17 | 330-1047 | 47Ω 1/4W 10% | 1 | 1 |
| R19 | 330-1027 | 27Ω 1/4W 10% | 1 | 1 |
| R21 | 330-3028 | 2.7K 1/4W 5% | 1 | 1 |
| R23 | 330-1082 | 82Ω 1/4W 10% | 1 | 1 |
| R24 | 330-1016 | 15Ω 1/4W 5% | 1 | 1 |
| R27, 28 | 330-3010 | 1K 1/4W 10% | 2 | 2 |
| * R26 | 330-1019 | 18Ω 1/4W 10% | 0 | 1 |
| * R29-32 | 330-2027 | 270Ω 1/4W 10% | 3 | 4 |

NOTE 1: * DELETE THE FOLLOWING COMPONENTS TO MAKE A 4K MEMORY W.L.* 210-6707, L17 THRU L32, R25, 26, 31 AND C50

E-REV 0

| REVISION | E | ECO | DRAWN | CHK | ENGR | M ENGR |
|---|---|---|---|---|---|---|
| ADDED 2 PER AP-2001 | 0 | 6 | F.S.S. 3-5-74 | G.D. 11-6-74 | R.S.C. 3-7-75 | |
| REVISED PER AP-2001 | 1 | 6 | F.S.S. 3-5-74 | G.D. 11-6-74 | R.S.C. 3-7-75 | |
| REVISED PER AP-2001 | 2 | 6 | F.S.S. 3-5-74 | G.D. 11-6-74 | R.S.C. 3-7-75 | |
| REVISED PER ECO 3-5-74 AP-2001 | 3 | 6 | F.S.S. 3-5-74 | G.D. 11-6-74 | R.S.C. 3-7-75 | |

| 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 | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| | DWN F.S.S. | 10-17-74 | E ENGR | |
| | CHK | 12-20-74 | M ENGR | |
| | E.C. CONTROL | | MFG ENGR | |

MODEL NO. 2200S

SEE ENGRG SPECIFICATIONS No.

FINISH

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

TITLE SCHEMATIC FOR 8K MOS MEMORY BOARD 6707-1

210-6707-1 SEE NOTE 1 FOR 210-6707

| SCALE | SHT. 4 OF 4 | WANG PART NUMBER | SIZE | DRAWING NUMBER | REV. |
|---|---|---|---|---|---|
| | | | E | 6707-1 | 3 |

E 6707-1

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DO NOT SCALE

HOLE LEGEND

| | HOLE DIA. | TOL. |
|---|---|---|
| DRILLED OR PUNCHED HOLE | .01 25 to .125 | ±.002 ±.004 |
| TOLERANCES | .126 to .250 | ±.003 ±.005 |
| | .251 to .500 | ±.003 ±.005 |

| DSGNT. | DESCRIPTION | QTY. |
|---|---|---|
| A | | |

CONN.1

| | | |
|---|---|---|
| R19 | A1 | R8 |
| +5V | B2 | R9 |
| ±0V | C3 | ST3-3 |
| -12V | D4 | A4 |
| A12 | E5 | A7 |
| A15 | F6 | A6 |
| A8 | N7 | A9 |
| A11 | J8 | A5 |
| A0 | K9 | A2 |
| A3 | L10 | A10 |
| A14 | M11 | A4 |
| A0 | N12 | A5 |
| A11 | P13 | A13 |
| A7 | R14 | MS4 |
| DO19 | S15 | A10 |

CONN.2

| | | |
|---|---|---|
| DO14 | A1 | A13 |
| A0 | B2 | A12 |
| DO13 | C3 | DO11 |
| DO12 | D4 | DO10 |
| WTEN3 | E5 | A1 |
| WTEN4 | F6 | CL8 |
| CL2 | N7 | CH8 |
| DO5 | J8 | CL4 |
| DO8 | K9 | CH1 |
| DO7 | L10 | CL1 |
| DO6 | M11 | DO9 |
| CH8 | N12 | DO4 |
| DO3 | P13 | WTEN2 |
| WTEN1 | R14 | CH2 |
| A6 | S15 | TFF |

CONN.3

| | | |
|---|---|---|
| φ1 | A1 | DO12 |
| φ2 | B2 | DO1 |
| | C3 | DO0 |
| MS3 | D4 | MS2 |
| MS1 | E5 | RESET |
| MERO | F6 | MOT |
| UDC | N7 | A11 |
| A9 | J8 | A |
| B | K9 | REF |
| MTF | L10 | ST1-3 |
| MXS | M11 | MER |
| MTR1 | N12 | CS |
| CK | P13 | ±0V |
| DAST | R14 | +5V |
| AT1 | S15 | DIN |

COMP. SIDE — WIRING SIDE

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

| COMPONENT | W.L. PART NO. |
|---|---|
| R1 | 330-3027 |
| R2,16,17 | 330-3010 |
| R3-10 | 330-3068 |
| R11 | 330-3047 |
| R12,14 | 330-2022 |
| R13 | 330-2018 |
| R15 | 330-3018 |
| C1 | 300-1047 |
| C2-18 | 300-1900 |
| C19,20,21 | 300-4022 |
| XTAL | 321-0008 |
| 24 PIN SOCKET(U) | 376-9003 |
| 16 PIN SOCKET(T) | 376-9002 |

| LOCATION | W.L. PART NO. | TERM.NO. ±0V | TERM.NO. Vcc=+5V ±=-12V |
|---|---|---|---|
| LI | SEE CHART | | |
| L2 | 376-0031 | 7 | 14 |
| L3,4,5 | 376-0007 | 13 | 5 |
| L6,48,49,50 | 376-0093 | 7 | 14 |
| L7,18 | 376-0011 | 10 | 5 |
| L8,10,12,19,22,25 | 376-0010 | 7 | 14 |
| L9 | 376-0003 | 7 | 14 |
| L11,35 | 376-0081 | 7 | 14 |
| L13,14,39,40 | 376-0119 | 8 | 16 |
| L15,24 | 376-0096 | 8 | 16 |
| L16,17,20,21,23,33,34 | 376-0097 | 8 | 16 |
| L 36,36,46,47 | 376-0002 | 7 | 14 |
| L26,37,38,41-45 | 376-0082 | 8 | 16 |
| L27,28 | 376-0094 | 8 | 16 |
| L29,30,31,32 | 376-0048 | 8 | 16 |

| CHART | | |
|---|---|---|
| LOCATION | W.L.PART NO. | DESCRIPTION |
| LI | 377-0259 | WITHOUT MATRIX OPTION |
| LI | 377-0244 | WITH MATRIX OPTION |

J1

| | | |
|---|---|---|
| TDN16 | 16 | TDN1 |
| TDN15 | 15 | TDN2 |
| TDN14 | 14 | TDN3 |
| TDN13 | 13 | TDN4 |
| TDN12 | 12 | |
| | 11 | |
| | 10 | |
| | 9 | |
| | 8 | |
| | 7 | |
| | 6 | |
| | 5 | |
| | 4 | |
| | 3 | |
| | 2 | |
| | 1 | |

WANG 6708 RO

COMPONENT LAYOUT

| REVISION | DSN | DRN | CHK | APP | DATE |
|---|---|---|---|---|---|
| A | Original Issue | | | | |
| B | Revised for ECR 270 | | | | |
| C | Adds Pad ECR 277 | | | | |
| D | CHANGED PER ECO 1441 RE-DREW COMPONENT LAYOUT | | | | 1-9-75 |

| WANG PART NO. | ITEM | QTY | NAME |
|---|---|---|---|
| PRINT USED ON | ASSY USED ON | | WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A. |
| MATERIAL | | | MODEL NO. 2200S |
| FINISH | | | SEE ENGRG SPECIFICATIONS No. |

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

SCALE — SHT 4 OF 3

| MATERIAL | DESCRIPTION |
|---|---|
| BY | DATE |
| DWN | 11-8-74 |
| CHK | 12-11-74 |
| E.C. CONTROL | |

| APPROVED BY | DATE |
|---|---|
| E ENGR P. Smith | 1-9-75 |
| M. ENGR | |
| MFG ENGR | |

TITLE: SCHEMATIC LOGIBLOC # 6708 2K X 8 MEMORY CONTROL

210-6708 — WANG PART NUMBER | E — SIZE | 6708 — DRAWING NUMBER | 1 — REV.

FEB - 5 1975

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DO NOT SCALE

HOLE LEGEND

| DRILLED OR PUNCHED HOLE TOLERANCES | HOLE DIA. | TOL. |
|---|---|---|
| | .0120 to .125 | ± .005 |
| | .126 to .350 | ± .008 |
| | .351 to .500 | ± .010 |

| IDENT. | DESCRIPTION | QTY. |
|---|---|---|
| A | | |

CONN. 1

| | | |
|---|---|---|
| +5VR | A1 B1 | |
| 10V | C1 D1 | |
| | D4 | MXS |
| A12 | E5 | A7 |
| A13 | F6 | A8 |
| A6 | H7 | A9 |
| A1 | J8 | A5 |
| A3 | K9 | A2 |
| A0 | L10 | A10 |
| A14 | M11 | A4 |
| TP2 | N12 | WW |
| TMP | P13 | A15 |
| CB | R14 | CTA |
| TIP | S15 | TRAP |

CONN. 2

| | | |
|---|---|---|
| AT3 | A1 B1 | AT4 |
| D1 | C1 D1 | D2 |
| SB | E1 F1 | D4 |
| MERO | D4 E4 | DC |
| SR | E5 F5 | UDC |
| R10 | F6 H7 | IC |
| R6 | J8 K9 | D8 |
| R10 | J8 K9 | AT1 |
| TRP0 | L10 M11 | R2 |
| R3 | N12 P13 | RO |
| R11 | N12 P13 | TRP1 |
| R7 | P13 R14 | R8 |
| R15 | R14 S15 | R4 |
| R12 | S15 S15 | |

CONN. 3

| | | |
|---|---|---|
| TRP8 | A1 B1 | R1 |
| R5 | B2 C2 | R9 |
| ID4 | C3 D3 | R13 |
| ID1 | D4 E4 | ID2 |
| ID8 | E5 F5 | MER |
| RTT | F6 G6 | BRL |
| BRH | H7 J7 | IC8 |
| IC4 | J8 K9 | A11 |
| IC2 | K9 L10 | IC1 |
| IB4 | L10 M11 | IB2 |
| IB1 | N11 N12 | IA4 |
| IA3 | N12 P13 | IA1 |
| | P13 R14 | 10V |
| | R14 S15 | +5VR |
| IB8 | S15 S15 | ID8 |

COMP SIDE — WIRING SIDE

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

| I.C. LOCATION | W. L. NO. | GND 10V | Vcc +5VR |
|---|---|---|---|
| L1 | 376-0010 | 7 | 14 |
| L2 | 376-0001 | 7 | 14 |
| L3, 5 | 376-0093 | 7 | 14 |
| L4, 6, 16, 26, 37, 43 | 376-0053 | 8 | 16 |
| L7, 8, 15, 17, 18, 19, 27, 28, 29, 36, 38, 39, 44, 45, 46 | 376-0048 | 8 | 16 |
| L9, 10, 11, 20, 21, 22, 30, 31, 32, 40, 41, 42 | 376-0113 | 8 | 16 |
| L12, 13, 14, 23, 24, 25, 33, 34, 35 | 376-0119 | 8 | 16 |
| L31 | 376-0058 | 7 | 14 |

| COMPONENT | W. L. PART No. |
|---|---|
| R1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 | 330 - 2097 |
| R17, 18, 41, 42, 43 | 330 - 3097 |
| R19, 36, 37, 38, 39, 40 | 330 - 3010 |
| | |
| C1, 9 | 300 - 4022 |
| C2, 3, 4, 5, 6, 7, 8 | 300 - 1903 |
| | |
| SW1 | 325 - 1501 |
| SWITCH COVER | 325 - 9045 |

MEMORY CONTROL CHART

| | 4K | 8K | 12K | 16K | 20K | 24K | 28K | 32K |
|---|---|---|---|---|---|---|---|---|
| S1 | +5VR | +5VR | 10V | 10V | +5VR | +5VR | 10V | 10V |
| S2 | +5VR | +5VR | +5VR | +5VR | 10V | 10V | 10V | 10V |
| S3 | +5VR | 10V | +5VR | 10V | +5VR | 10V | +5VR | 10V |

SEE MEMORY CONTROL CHART

WANG 6709 REV 0

COMP SIDE

FEB - 5 1975

| REVISIONS | | | |
|---|---|---|---|
| | ZONE | | |
| | 64 | 32-34 | 72-76 |
| A | Completed Wang 2200 | | |
| D | Added part Wang 2200 | | |

| 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 | | 9/67 | E. ENGR. J. Smith | 9-10-76 |
| CHK | | 9-10-76 | M. ENGR | |
| E. C. CONTROL | | | MFG. ENGR | |

MATERIAL — MODEL NO. 2200S — SEE ENGRG SPECIFICATIONS

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

TITLE: SCHEMATIC LOGIBLOC 6709 REGISTERS

210-6709 — WANG PART NUMBER — SCALE — SHT 4 OF 5 — SIZE E — 6709 DRAWING NUMBER — 0 REV.

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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 | ± .004 |

| IDENT. | DESCRIPTION | QTY |
|---|---|---|
| A | | |

## CONN. 1

| | | | |
|---|---|---|---|
| b-1 | A1 | B1 | b-4 |
| +5VR | B2 | A2 | |
| 10V | C3 | B3 | |
| A | D4 | A4 | DAST |
| $A_{12}$ | E5 | A5 | CL1 |
| $A_{15}$ | F6 | A6 | CH1 |
| $CL_3$ | H7 | A7 | b-2 |
| $A_1$ | J8 | A8 | $CH_2$ |
| $A_3$ | K9 | A9 | $A_2$ |
| $A_0$ | L10 | A10 | CL4 |
| $A_{14}$ | M11 | A11 | $CH_4$ |
| $CL_5$ | N12 | A12 | WW |
| FMP | P13 | A13 | $A_{13}$ |
| CG | R14 | A14 | CTA |
| TP | S15 | A15 | TRAP |

## CONN. 2

| | | | |
|---|---|---|---|
| $CH_0$ | A1 | B1 | BI1 |
| D1 | B2 | B2 | BI4 |
| $BI_3$ | C3 | B3 | D8 |
| B | D4 | B4 | D4 |
| SR | E5 | B5 | BI8 |
| $R_{10}$ | F6 | B6 | DC |
| $R_6$ | H7 | B7 | IC |
| $R_{10}$ | J8 | B8 | D2 |
| $R_2$ | K9 | B9 | |
| PCG | L10 | B10 | CT4 |
| $R_3$ | M11 | B11 | R11 |
| TP1 | N12 | B12 | $R_0$ |
| $R_7$ | P13 | B13 | MTF |
| $R_{15}$ | R14 | B14 | MOT |
| $R_{12}$ | S15 | B15 | $R_4$ |

## CONN. 3

| | | | |
|---|---|---|---|
| SP1 | A1 | B1 | $R_1$ |
| $R_5$ | B2 | B2 | MER |
| $R_{19}$ | C3 | B3 | $R_{13}$ |
| | D4 | B4 | |
| $R_{17}$ | E5 | B5 | MXS |
| | F6 | B6 | BRL |
| BRH | H7 | B7 | |
| STI1 | J8 | B8 | |
| | K9 | B9 | $R_{16}$ |
| | L10 | B10 | ERG |
| $R_{18}$ | M11 | B11 | |
| STI-0 | N12 | B12 | SB |
| | P13 | B13 | 10V |
| | R14 | B14 | +5VR |
| | S15 | B15 | |

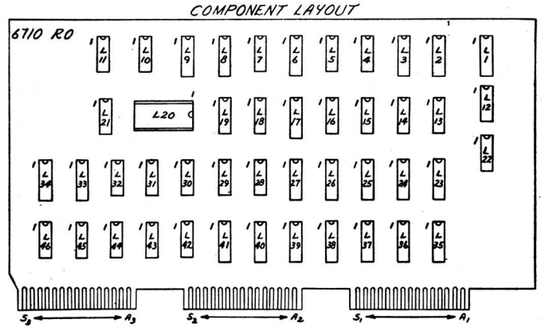
CONN. SIDE — WIRING SIDE

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

| I.C. LOCATION | W.L. PART No. | $V_{CC}$ +5VR | GND 10V |
|---|---|---|---|
| L1 | 376-0096 | 16 | 8 |
| L2,3,27,33 | 376-0048 | 16 | 8 |
| L4,7,28,44 | 376-0081 | 14 | 7 |
| L5 | 376-0016 | 14 | 7 |
| L6 | 376-0122 | 16 | 8 |
| L8,17,60 | 376-0082 | 16 | 8 |
| L9 | 376-0123 | 16 | 8 |
| L10, 11, 14 | 376-0002 | 14 | 7 |
| L12,13,31,42,65 | 376-0010 | 14 | 7 |
| L19 | 376-0036 | 14 | 7 |
| L15,22,30,32 | 376-0093 | 14 | 7 |
| . | | | |
| L18 | 376-0003 | 14 | 7 |
| L20 | 376-0099 | 24 | 12 |
| L20 SOCKET | 376-9003 | — | — |
| L21 | 376-0025 | 14 | 7 |
| L23,24,25,26 | 376-0100 | 16 | 8 |
| L29 | 376-0004 | 14 | 7 |
| L33 | 376-0097 | 16 | 8 |
| L34,41 | 376-0008 | 4 | 8 |
| L35,36,37,38 | 376-0047 | 4 | 8 |
| L43 | 376-0012 | 14 | 7 |
| L46 | 376-0005 | 4 | 11 |

| COMPONENT | W.L. PART No. |
|---|---|
| R1,2,3,54,3,11,12,13, 14,15,16,17,18,19,20,21 | 330-3010 |
| R4 | 330-3047 |
| R8,9,10 | 330-3018 |
| D | 38-1001 |
| . | |
| C1,2,3,4,5,6,7,8,9,10 | 300-1900 |
| C11,12 | 300-6022 |

COMPONENT LAYOUT




| REV. | DESCRIPTION | DATE | APPROVED |
|---|---|---|---|
| A | ECO 2226 ADD D. SHEET 2 REVISED PER ECO 2244 ADDED C11 | 11-4-76 | |
| B | REVISED PER ECO 2244 | 11-17-76 | |

| WANG PART NO | ITEM | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A. | | |
| | | | MATERIAL | MODEL NO. 2200S | BY / DATE / APPROVED BY / DATE |
| | | | | SEE ENGRG SPECIFICATIONS No. | DWN 11-25-76 E ENGR |
| | | | FINISH | TOL EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH | CHK 12-11-76 M ENGR |
| | | | | SCALE | E C CONTROL / MFG ENGR |
| | | | | SHT 4 OF 5 | TITLE SCHEMATIC, LOGIBLOC 6710 ALU |
| | | | | WANG PART NUMBER | SIZE 210-6710 E DRAWING NUMBER 6710 REV 1 |

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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 | |

| EIGHT | DESCRIPTION | VER |
|---|---|---|
| A | | |

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

| | | | |
|---|---|---|---|
| $B_8$ | A1 | CH. GND | |
| STEP ROW DISP | B2 | +5VR | |
| HS | C3 | IOV | |
| $\overline{\text{WRITE ENBL}}$ | D4 | ENBL $B_6$ | |
| | $\overline{\text{VB}}$ E5 | BOC | |
| ENBL CUR | F6 | $\overline{\text{W BUSY}}$ | |
| READ STROBE | H7 | "D" | |
| $A_9$ | J8 | $\overline{\text{HB}}$ | |
| $A_6$ | K9 | $A_8$ | |
| VB | L10 | $A_7$ | |
| $\overline{A_7}$ | M11 | $\overline{A_0}$ | |
| SER. DATA | N12 | ENBL WP | |
| $A_5$ | P13 | RESET ROW DISP | |
| $A_2$ | R14 | $A_4$ | |
| STEP DISP COUNTER | S15 | $A_3$ | |
| $B_5$ | T16 | DATA STROBE | |
| $B_7$ | U17 | $B_4$ | |
| $B_6$ | V18 | $B_5$ | |
| $B_2$ | W19 | $\overline{\text{ETX}}$ | |
| LOAD S/R | X20 | $B_1$ | |
| +12V | Y21 | +5VR | |
| −12V | Z22 | IOV | |
| COMP. SIDE | | WIRING SIDE | |

J1

| | | |
|---|---|---|
| MAIN CARD ENBL | 8 | 7 |
| | 9 | 6 |
| ABS | 10 | 5 |
| | 11 | 4 |
| ADDRESS COMP | 12 | 3 |
| | 13 | 2 |
| | 14 | 1 |

$\overline{AB_8}$

J2

| | | |
|---|---|---|
| | 8 | 7 |
| | 9 | 6 |
| | 10 | 5 |
| | 11 | 4 |
| TC5 | 12 | 3 |
| TC4 | 13 | 2 |
| TC7 | 14 | 1 |

TC2, TC1, TC6, TC3

| I.C. LOCATION | W.L. PART No. | GND | +5VR |
|---|---|---|---|
| L1, 2, 38 | 376-0002 | 7 | 14 |
| L3, 4 | 376-0137 | 8 | 16 |
| L5 | 376-0065 | 12 | 5 |
| L6, 37 | 376-0010 | 7 | 14 |
| L7, 36 | 376-0003 | 7 | 14 |
| L8 | 376-0108 | 8 | 16 |
| L9 | 376-0104 | 8 | 16 |
| L10, 33 | 376-0016 | 7 | 14 |
| L11, 12, 13, 14, 15, 16, 17, 18, 22, 23, 24, 25, 26 | 377-0069 | 9 | 12 |
| L18, 27, 28, 35 | 376-0078 | 7 | 14 |
| L19 | 376-0053 | 8 | 16 |
| L20 | 376-0004 | 7 | 14 |
| L21, 31 | 376-0005 | 11 | 4 |
| L29, 30, 34 | 376-0011 | 10 | 5 |
| L32 | 376-0081 | 7 | 14 |
| L39 | 376-0006 | 7 | 14 |

| COMP. | W.L. PART No. |
|---|---|
| RL 2 | 330-2047 |
| R3 | 330-3012 |
| R4 | 330-3010 |
| R5 | 330-3022 |
| R6 | 330-4015 |
| R7, 8 | 330-3047 |
| R9 | 330-4022 |
| J2 | 376-9001 |
| C1 | 300-1903 |
| C2 | 300-1100 |
| C3 | 300-5004 |
| C4, 5 | 300-4022 |
| C6, 7, 8, 9, 10, 11, 12, 13, 14, 15 | 300-1904 |
| J1, J2 | 376-9008 |
| XTAL | 321-0012 |
| CABLE (J1) | 220-3009 |

6713 RO

CABLE 220-3009

| REVISION | BY | DATE | APPROVED |
|---|---|---|---|
| A | REVISED PER W.O. 3 1/4 BOARD | 4/14/72 | 4-14-72 |
| B | REVISED PER MR# 389 | 6-14-72 | |
| C | REVISED PER MR# 1572 | 12-14-72 | |

| WANG PART NO | ITEM | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| FIRST USED ON | ASSY USED ON | | | | |

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

| | | | | | |
|---|---|---|---|---|---|
| | | | DRAWN | 6-14-72 | |
| | | | CHK | | |
| MATERIAL | MODEL NO 2216 X | | M.E. CONTROL | | |
| | SEE ENGRG SPECIFICATIONS No. | | TITLE SCHEMATIC, LOGIBLOC J71, PROGRAMMABLE CHARACTER GENERATOR | | |
| FINISH | TOL EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH √ | | 210-6713-RO | E | 6713 |
| SCALE | WT. | SHT 1 OF 1 | WANG PART NUMBER | SIZE | DRAWING NUMBER |

E-REV 0

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DO NOT SCALE

HOLE LEGEND

| | HOLE DIA. | TOL. |
|---|---|---|
| DRILLED OR PUNCHED HOLE TOLERANCES | .0135 to .133 | ± .001 |
| | .136 to .250 | ± .002 |
| | .251 to .500 | ± .003 |

| IDENT | DESCRIPTION | QTY |
|---|---|---|
| A | | |

CONN.1

| | | |
|---|---|---|
| -15V | A1 | -15V |
| +5VR | B2 | +5VR |
| ±0V | C3 | ±0V |
| | D4 | |
| MS2 | E5 | A7 |
| A6 | F6 | A8 |
| A1 | N7 | A9 |
| A5 | J8 | A12 |
| A0 | K9 | A11 |
| | L10 | A10 |
| REF | M11 | A6 |
| | N12 | A4 |
| DAST | P13 | |
| DO15 | R14 | DI14 |

CONN.2

| | | |
|---|---|---|
| DO14 | A1 | DI13 |
| DO13 | B2 | DI12 |
| DO12 | C3 | DO11 |
| DO11 | D4 | DO10 |
| WE3 | E5 | DI10 |
| WE2 | F6 | DI9 |
| DI11 | N7 | DI8 |
| DO9 | J8 | DI6 |
| DO8 | K9 | DI7 |
| DO7 | L10 | DI5 |
| DO6 | M11 | DO5 |
| DI5 | N12 | DO4 |
| DO3 | P13 | WE1 |
| DI2 | R14 | DI3 |

CONN.3

| | | |
|---|---|---|
| RESET | A1 | DI1 |
| Ø1 | B2 | DI0 |
| Ø2 | C3 | DO2 |
| | D4 | DO1 |
| MS1 | E5 | DO0 |
| | N7 | +12V |
| ±0V | K9 | ±0V |
| ±0V | P13 | ±0V |
| +5VR | R14 | +5VR |

CONN.1 CONN.2 CONN.3 — COMPR SIDE — WIRING SIDE

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

| COMPONENT | W.L.PART NO. |
|---|---|
| C1-4 | 300-1270 |
| C5-46 | 300-1930 |
| C47-54 | 300-4018 |
| C55-58 | 300-4020 |
| Q1, Q2 | 375-1050 |
| R1-4 | 330-1016 |
| R5-6 | 330-1011 |
| R7, 8 | 330-2034 |
| R9, 11 | 330-3015 |
| R10 | 330-3022 |
| D1 | 320-2051 |

| LOCATION | W.L.PART NO. | TERM. NO. ±0V | TERM. NO. Vcc+5VR |
|---|---|---|---|
| L1-16, 19-34 | 376-9010 | | |
| L17, 18, 36, 38, 41 | 376-0179 | 8 | 16 |
| L35, 37, 40, 42 | 376-0183 | 8 | 16 |
| L39 | 376-0178 | 7 | 14 |
| L43, 47 | 376-0093 | 7 | 14 |
| L44 | 376-0016 | 7 | 14 |
| L45 | 376-0002 | 7 | 14 |
| L46 | 376-0003 | 7 | 14 |
| L48 | 376-0007 | 13 | 5 |
| L49 | 377-0006 | 7 | 14 |
| L39 | 376-9001 | | |
| L1-16, 19-34 | 377-0310 | 22 | 11 |

NOTE: ALL OTHER CAPACITORS ARE .1µF 50V.

* NOTE: FOR 210-6717 OMIT: C3, 4, R3, 4, 6, 9 Q1, L19-34.

6717 R0

COMPONENT LAYOUT

E REV 0

| REVISION | BY | DATE |
|---|---|---|
| ADDED PIN NUMBERS | | |
| ECL PER 6717-0310 | | |
| ECL PER 6717-0310 REVISED PART NO. | | |
| ECL PER 6717-0310 APPLIED ON LAYOUT | | |
| ECL PER 6717-0310 REL TO PRODUCTION | | |
| ECL PER 6717-0310 REVISED PER PRA | | |
| REVISED PER ECO | | |
| ECO 6717-0310 WAS 6717-0310 REVISED PER PRA | | |
| ECO 6717-0310 WAS 6717-0310 REVISED PER PRA | | |
| ECO 6717-0310 WAS 6717-0310 REVISED PER PRA | | |

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

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

| | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| DWN | | 9-10-75 | E ENGR | 9-23-75 |
| CHK | | 9/16/75 | M ENGR | |
| E C CONTROL | | | MFG ENGR | |

MATERIAL — MODEL NO 2200S — SEE ENGR SPECIFICATIONS No.

FINISH

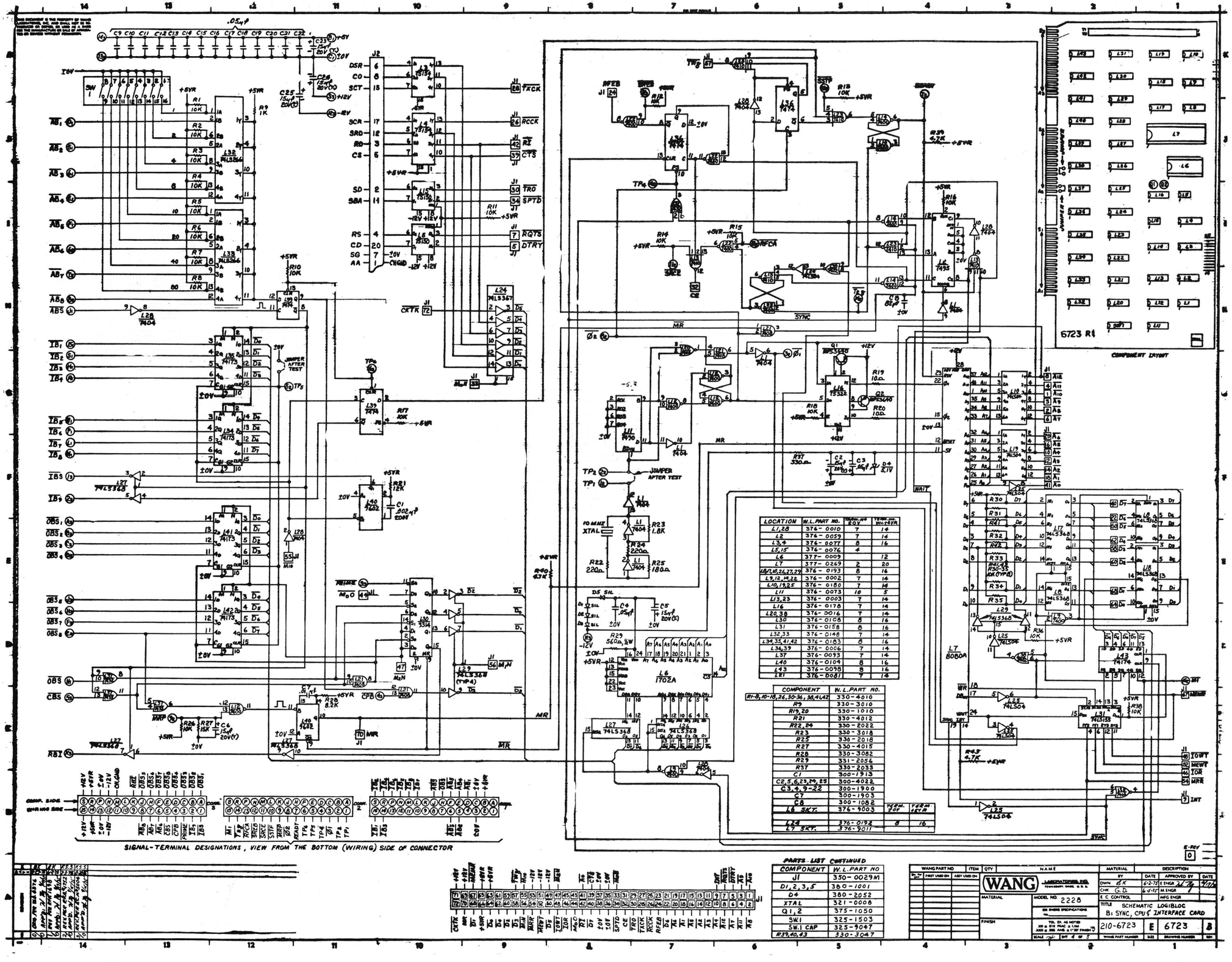
TOL EX. AS NOTED XX ± .010 FRAC. ± 1/64 XXX ± .005 ANG. ± 1°30' FINISH

SCALE — SHT 1 OF 1

TITLE: SCHEMATIC LOGIBLOC 16K×8BIT MEMORY BOARD

210-6717-1 | E | 6717 | 3

WANG PART NUMBER | REV | DRAWING NUMBER | REV


6723 R1
COMPONENT LAYOUT
SIGNAL-TERMINAL DESIGNATIONS, VIEW FROM THE BOTTOM (WIRING) SIDE OF CONNECTOR
SYNC
MR
WAIT
JUMPER AFTER TEST
L7 8080A
L6 1702A
L26 74S368
L36 7474
L38 74LS244
L39 7474
L40 74S02
L41 74173
L42 74173
L43 74174
L44 74S00
L45 74LS04
L46 74S00
L47 74LS368
L48 74LS368
L49 74LS368
L50 74LS368
L51 74LS368
L52 74LS368
L53 74LS368
L54 74LS368
L55 74LS368
L56 74LS368
L57 74LS368
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L63 74LS368
L64 74LS368
L65 74LS368
L66 74LS368

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DO NOT SCALE

| LOC. | WL. PART No. | ±0V | +5VR |
|---|---|---|---|
| L1 | 376-0011 | 10 | 5 |
| L2 | 376-0005 | 11 | 4 |
| L3 | 376-0182 | 21 | 1 |
| L4 | 376-0093 | 7 | 14 |
| L5,6 | 376-0094 | 8 | 16 |
| L7,8 | 376-0082 | 8 | 16 |
| L9,10 | 376-0008 | 8 | 16 |
| L11 | 376-0009 | 7 | 14 |
| L12 | 376-0003 | 7 | 14 |
| L13,14,20,21, 28,29,33,34 | 377-0310 | 22 | 11 |
| L15 | 376-0181 | 21 | 1 |
| L16,25 | 376-0119 | 8 | 16 |

| LOC. | WL. PART No. | ±0V | +5VR |
|---|---|---|---|
| L17 | 376-0153 | 7 | 14 |
| L18 | 376-0028 | 7 | 14 |
| L19 | 376-0087 | 8 | 16 |
| L22,23,24 | 376-0152 | 8 | 16 |
| L26 | 376-0002 | 7 | 14 |
| L27, 30 | 376-0010 | 7 | 14 |
| L31 | 376-0016 | 7 | 14 |
| L35, 36 | 376-0177 | 8 | 16 |
| L37 | 376-0179 | 7 | 11 |
| L38 | 376-0126 | 1 | 8 |

| COMPONENT | WL PART No. |
|---|---|
| R1, 2, 44 | 330-4010 |
| R3-23, 27, 32, 33 37-43, 45, 46, 47 | 330-3010 |
| R24 | 330-2033 |
| R25, 26 | 330-1010 |
| R28, 30 | 330-2022 |
| R29 | 330-2047 |
| R31 | 330-3018 |
| R34 | 330-2034 |
| R35 | 330-6028 |
| R36 | 330-3047 |
| | |
| C1, 3, 21, 27 | 300-9022 |
| C2, 8, 9, 10 | 300-1900 |
| C4 | 300-1330 |
| C5 | 300-2067 |
| C6, 11-16 | 300-1903 |
| C7 | 300-1220 |
| C17, 18, 19, 20 | 300-1901 |
| C22, 23, 27, 25 | 300-1918 |
| C26 | 300-3003 |
| | |
| XTAL 1.8432 MHz | 321-0015 |
| Q1 | 380-2052 |
| Q1 | 375-1050 |
| | |
| J1 (16 PIN) | 376-9002 |
| L13, 19, 20, 21, 28, 29, 33, 34 (SOCKET 22 PIN) | 376-9010 |
| L3, 15 (SOCKET 40 PIN) | 376-9011 |

ECN NO. PENDING 11514

E-REV C

| WANG PART NO | ITEM | QTY | MATERIAL | DESCRIPTION |
|---|---|---|---|---|
| PC NO | 1 ST USED ON | ASSY USED ON | | |

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

| | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| DWN | | | | |
| CHK | | | | |
| E C CONTROL | | | MFG ENGR | |

MATERIAL — MODEL NO 2228 — SEE ENGRG SPECIFICATIONS No.

FINISH — TOL EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG. ± 1/2° FINISH √

SCALE — SHT 4 OF 5

TITLE SCHEMATIC, LOGIBLOC TRANSMITER, RECIVER AND MEMORY

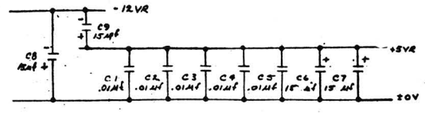
210-6724 — WANG PART NUMBER — E 6724 — DRAWING NUMBER — REV

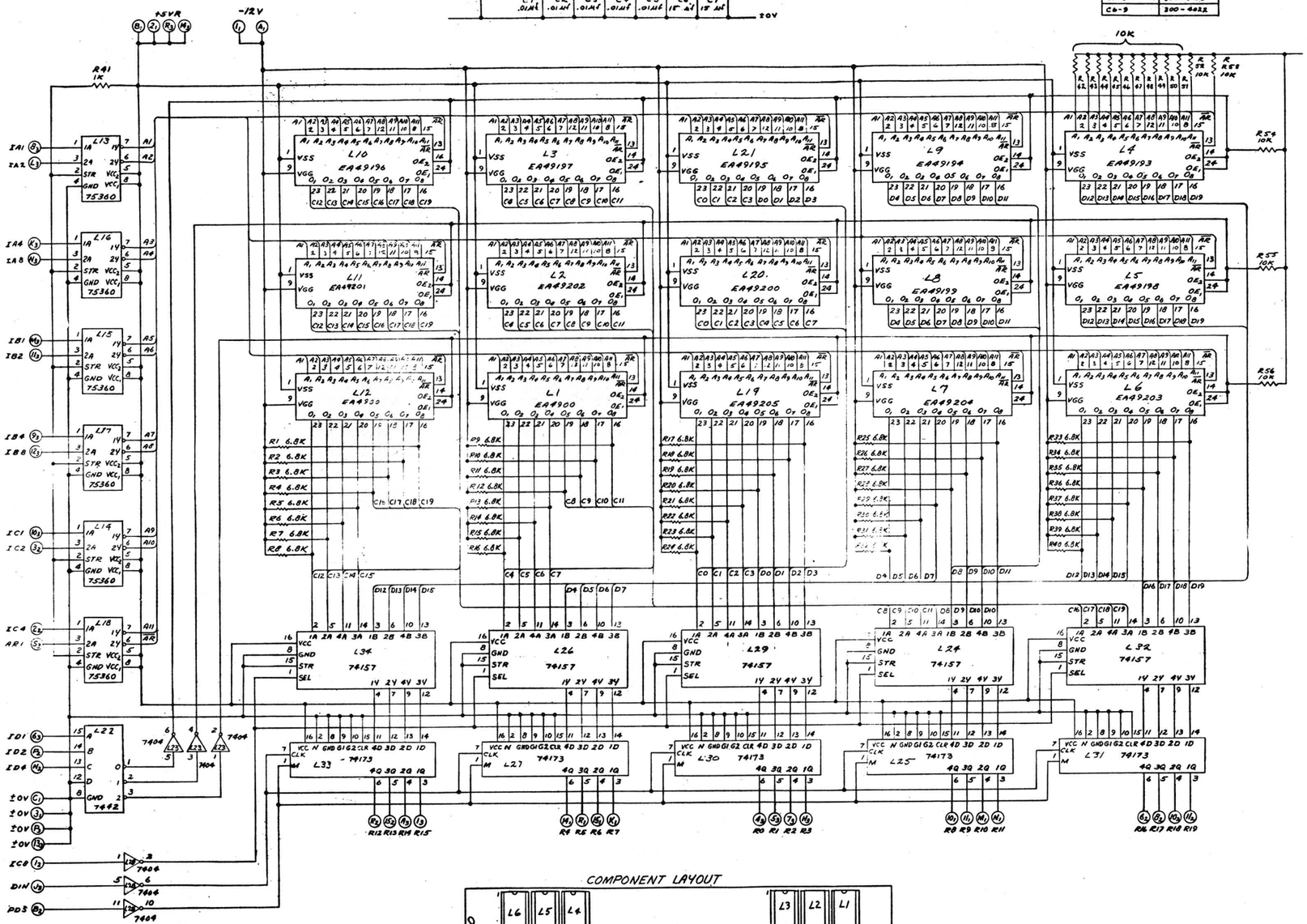
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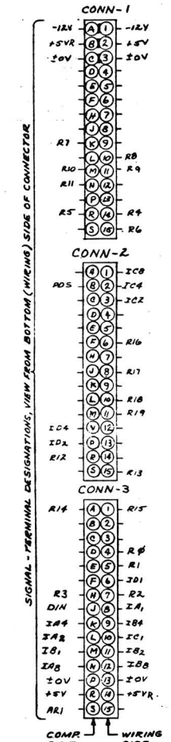
DO NOT SCALE

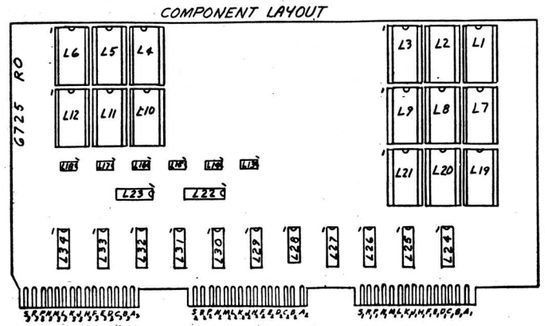
| COMP. | WL. NO. |
|---|---|
| R1-40 | 330-3048 |
| R42-56 | 330-4010 |
| R61 | 330-3010 |
| - | - |
| | |
| C1-8 | 300-1003 |
| C9-9 | 300-4002 |

| LOCATION | W.L. NO. | VCC | GND |
|---|---|---|---|
| L13-18 | 376-0118 | 8 | 4 |
| L23 | 376-0008 | 16 | 8 |
| L26,24,29,32,36 | 376-0082 | 16 | 8 |
| L27,25,28,31,33 | 376-0137 | 16 | 8 |
| L1 | 337-0241 | | |
| L2 | 337-0236 | | |
| L3 | 337-0281 | | |
| L4 | 337-0235 | | |
| L5 | 337-0240 | | |
| L6 | 337-0239 | | |
| L9 | 337-0234 | | |
| L10 | 337-0232 | | |
| L11 | 337-0287 | | |
| L12 | 337-0242 | | |
| L19 | 337-0233 | | |
| L20 | 337-0238 | | |
| L21 | 337-0243 | | |
| L22,30 | 337-0010 | 14 | 7 |
| L6,7 | | | |
| I.C. SOCKET | 376-9003 | | |




FEB - 5 1975

| REVISION | DRWN | CHK | ENGR |
|---|---|---|---|
| ADDED R48 | RB | | |
| REVISED R54, R55, R56 | RB | | |
| REVISED R1-R40 | RB | | |
| REVISED R41 | RB | | |
| ADDED R49-R52 | RB | | |
| ADDED R53 | RB | | |

| WANG PART NO | ITEM | QTY | NAME |
|---|---|---|---|
| | | | WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A. |
| MATERIAL | | | MODEL NO 2200S |
| | | | SEE ENGRG SPECIFICATIONS No. |
| FINISH | | | TOL. EX. AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG. ± 1°30' FINISH |
| | | | SCALE 1/2 SHT 1 OF 5 |

| MATERIAL | DESCRIPTION |
|---|---|
| BY | DATE / APPROVED BY / DATE |
| DWN E.S. | 11-6-74 / E ENGR / 12-6-74 |
| CHK | 12-5-74 / M ENGR |
| E C CONTROL | MFG ENGR |

TITLE SCHEMATIC FOR 6725 EA4900 ROM BOARD

210-6725 | E | 6725 | 7

WANG PART NUMBER | SIZE | DRAWING NUMBER | REV.

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DO NOT SCALE

| LOCATION | W.L. PART NO | TOL | PLCS |
|---|---|---|---|
| L1 THRU 30 | SEE CHART | — | 1 |
| L31,32,33,34,35,36 | 376-0118 | 5 | 6 |
| L37 | 376-0008 | 8 | 16 |
| L38, 43 | 376-0010 | 7 | 12 |
| L39,40,41,42 | 376-0009 | 8 | 16 |
| L40, 42, 45, 46, 48 | 376-0137 | 8 | 16 |

| COMPONENT | W.L. PART NO |
|---|---|
| R1 | 330-3010 |
| R2 THRU 19 | 330-4010 |
| R20 THRU 59 | 330-3068 |
| R 60 | 330-3047 |
| | |
| C1, 2, 8, 9 | 300-4032 |
| C3,4,5,6,7 | 300-1703 |
| | |
| SOCKET PER LOADING CHART | 376-9003 |

## LOADING CHART

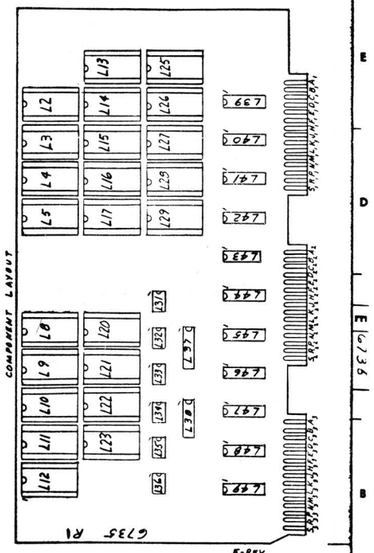
| LOC. | 22005 | | | | | | |
|---|---|---|---|---|---|---|---|
| L1 | | | | | | | |
| L2 | 377-0240 | | | | | | |
| L3 | 377-0235 | | | | | | |
| L4 | | | | | | | |
| L5 | | | | | | | |
| L6 | | | | | | | |
| L7 | | | | | | | |
| L8 | | | | | | | |
| L9 | | | | | | | |
| L10 | 377-0231 | | | | | | |
| L11 | 377-0236 | | | | | | |
| L12 | 377-0241 | | | | | | |
| L13 | 377-0242 | | | | | | |
| L14 | 377-0237 | | | | | | |
| L15 | 377-0232 | | | | | | |
| L16 | | | | | | | |
| L17 | | | | | | | |
| L18 | | | | | | | |
| L19 | | | | | | | |
| L20 | | | | | | | |
| L21 | | | | | | | |
| L22 | 377-0239 | | | | | | |
| L23 | 377-0233 | | | | | | |
| L24 | | | | | | | |
| L25 | 377-0243 | | | | | | |
| L26 | 377-0238 | | | | | | |
| L27 | 377-0234 | | | | | | |
| L28 | | | | | | | |
| L29 | | | | | | | |
| L30 | | | | | | | |

## HOLE LEGEND

DRILLED OR PUNCHED HOLE TOLERANCES: HOLE DIA ±TOL — 0 to .125 ±.004; .126 to .250 ±.005; .251 to .500 ±.006

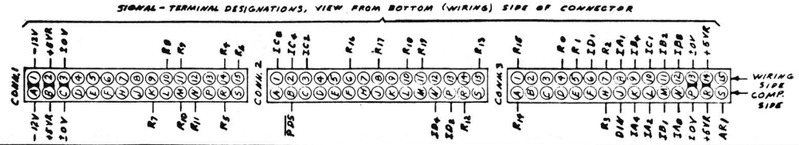
| IDENT | DESCRIPTION | QTY |
|---|---|---|
| A | | |

## COMPONENT LAYOUT




E-REV 1

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




| REVISION | DR | CK'D | G.O. |
|---|---|---|---|
| A | PER ECO 8855 ADD REF. DES. | A.H.P. 7/3 | S.M.C. |
| B | PER ECO 8855 ADD REF. DES. | A.H.P. 7/3 | S.M.C. |
| C | REVISED PER ECO 8855 | A.H.P. 7/3 | S.M.C. |
| D | REVISED PER ECO 8855 | A.H.P. 7/3 | S.M.C. |
| E | PER ECO 8855 | A.H.P. 7/3 | S.M.C. |

| WANG PART NO | ITEM | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A. | BY | DATE / APPROVED BY / DATE |
| | | | MATERIAL | DRN [illegible] | E. ENGR [illegible] |
| | | | MODEL NO 22005 | CHK [illegible] | M. ENGR |
| | | | SEE ENGRG SPECIFICATIONS | [illegible] | MFG ENGR |
| | | | FINISH | TOL EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH | TITLE SCHEMATIC, LOGIBLOC 20 BIT R.O.M. MEMORY |
| | | | | SCALE | SHT 2 OF 6 |
| | | | | 210-6375 | E 6735 2 |
| | | | | WANG PART NUMBER | SIZE DRAWING NUMBER 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 | | |

## ASSEMBLY VARIATION CHART

| 210- = 209- | — 377 OR 378 | |
|---|---|---|
| 6741-A | 6741<br>DELETE: R55 (2.2K)<br>SOCKETS L17 & L18<br>JUMPER #1, L2 | L20 = 377-0260 |
| 6741-1A | 6741-1<br>DELETE:<br>SOCKET L19<br>R47 THRU R53 (2.2K)<br>R57 THRU R64 (6.8K)<br>JUMPERS 1 & 2 | L17 & L18 = 377-0009 |

| LOCATION | W.L. PART NO. | TERM. NO. ±0V | TERM. NO. +5VR |
|---|---|---|---|
| L1 | 376-0108 | 8 | 16 |
| L2, 16, 49 | 376-0010 | 7 | 14 |
| L3, 4 | 376-0069 | 8 | 16 |
| L5 | 376-0049 | 8 | 16 |
| L6, 28, 36 | 376-0055 | 7 | 14 |
| L7 | 377-0000 | — | 5 |
| L8, 9 | 376-0011 | 10 | 5 |
| L10, 11 | 376-0118 | 8 | 16 |
| L12, 13 | 376-0176 | 8 | 16 |
| L14, 20, 31, 44 | 376-0081 | 7 | 14 |
| L15, 23, 32 | 376-0104 | 8 | 16 |
| L17, 18 | SEE NOTES | | 12 |
| L19 | SEE VARIATION CHART | 14 | 24 |
| L21, 23, 30 | 376-0006 | 7 | 14 |
| L24 | 376-0073 | 7 | 14 |
| L25, 39, 43 | 376-0056 | 7 | 14 |
| L26, 48 | 376-0197 | 8 | 16 |
| L27, 37, 41, 42, 45 | 376-0028 | 7 | 14 |
| L29, 52 | 376-0016 | 7 | 14 |
| L33 | 376-0151 | 12 | 5 |
| L38, 45 | 376-0004 | 7 | 14 |
| L40 | 376-0126 | 1 | 8 |
| L41 | 376-0002 | 3 | 14 |
| L50, 51 | 376-0009 | 8 | 16 |
| L53 | 376-0013 | 12 | 5 |
| L54 | 376-0038 | 8 | 16 |
| L62 | 376-0063 | 12 | 5 |

| COMPONENT | W.L. PART NO. |
|---|---|
| R1-19, 21, 23-33, 35, 37, 38, 39, 41, 42, 43, 45-57, 62 | 330-3022 |
| R20, 34, 36, 40, 44 | 330-9033 |
| R22 | 330-4012 |
| R56 — 63 | 330-3068 |
| R64 | 330-3010 |
| C1, 4 | 300-5005 |
| C2 | 300-1033 |
| C3, 9, 11, 23 | 300-5006 |
| C5, 6 | 300-4001 |
| C7, 8 | 300-5004 |
| C10 | 300-1814 |
| C12, 13, 22, 24, 25, 26 | 300-4022 |
| C14, 15, 16, 17, 18, 19, 20, 21 | 300-1803 |
| C27 | 300-1906 |
| D1, 2, 3, 4 | 300-4000 |
| L17, 18, 19 (SOCKET) | 376-9003 |

6741-1 E-REV 2 — 6741 E-REV 2

| REVISION | BY | DATE | APPROVED |
|---|---|---|---|
| ADDED L17, L18, L19 (SOCKETS) | PEP | 6-2-75 | |
| REVISED PER ECN 5010 | PEP | 6-10-75 | |
| REVISED PER ECN 5010 | PEP | 6-16-75 | |
| REVISED PER ECN 5010 | PEP | 6-20-75 | |
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DO NOT SCALE

| VARIATION CHART | | | |
|---|---|---|---|
| VARIATION | JUMPER | EA CHIP | LOCATION |
| 2215 | 75 FTO 5VR THRU R32 | 377-0225 | L20 |
| 2222 | 75 TO 10V | 377-0225 | L20 |
| 2223 | 75 FTO 5VR THRU R32 | 377-0260 | L20 |

NOTES: FOR 1702A
1. DELETE L6 (7406) CHIP.
2. DELETE R37 THRU R46 (2.2K)
3. DELETE R53 THRU R60 (6.8K)
4. DELETE L20 (EA4000) AND USE L18&L19 (7022A) IN ITS PLACE.
5. LOAD L8 (7404)

HOLE LEGEND

| | HOLE DIA. | TOL. |
|---|---|---|
| ENCLOSED IDS | .018 | ±.003 |
| THROUGH HOLES | .036 to .125 | ±.003 |
| | .126 to .250 | ±.005 |
| | .251 to .500 | ±.007 |

| DSGN | DESCRIPTION | QTY |
|---|---|---|
| A | | |

COMPONENT LAYOUT

6742 R0

SEE NOTES

L1 L2 L3 L4 L5 L6 L7 L8 L9 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 L43 L44 L45 L46 L47 L48 L49 L50 L51 L52 L53 L54 L55

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

CONN 1

| | | |
|---|---|---|
| +15VUR | A1 | B2 |
| +5VR | A2 | B3 |
| +0V | A3 | B4 |
| AB1 | A4 | B5 |
| AB4 | A5 | B6 |
| AB6 | A6 | B7 |
| ABS | A7 | B8 |
| HALT | A8 | B9 |
| IB7 | A9 | B10 |
| IB6 | A10 | B11 |
| IB5 | A11 | B12 |
| IB4 | A12 | B13 |
| IB2 | A13 | B14 |

CONN 2

| | | |
|---|---|---|
| TP8 | A1 | B1 |
| TP9 | A2 | B2 |
| TP10 | A3 | B3 |
| TP4 | A4 | B4 |
| TP13 | A5 | B5 |
| TP7 | A6 | B6 |
| TP14 | A7 | B7 |
| TP16 | A8 | B8 |
| TP2 | A9 | B9 |
| TP5 | A10 | B10 |
| TP11 | A11 | B11 |
| TP12 | A12 | B12 |
| TP3 | A13 | B13 |
| TP15 | A14 | B14 |
| TP4 | A15 | B15 |

CONN 3

| | | |
|---|---|---|
| OB1 | A1 | B1 |
| OB2 | A2 | B2 |
| OB3 | A3 | B3 |
| OB4 | A4 | B4 |
| OB8 | A5 | B5 |
| OB7 | A6 | B6 |
| OB6 | A7 | B7 |
| OB5 | A8 | B8 |
| RB | A9 | B9 |
| CH GND | A10 | B10 |
| | A11 | B11 |
| | A12 | B12 |
| | A13 | B13 |
| | A14 | B14 |
| | A15 | B15 |
| | A16 | B16 |

COMP SIDE / WIRING SIDE

J1

| | | |
|---|---|---|
| BASIC/ALPHA | 1 | 26 +15VUR |
| | 2 | 27 +5VR |
| ±0V | 3 | 28 ±0V |
| | 4 | 29 KST |
| HC | 5 | 30 SRO |
| SLKO | 6 | 31 SRC |
| SLKC | 7 | 32 |
| SLC | 8 | 33 HO |
| RC | 9 | 34 SLO |
| RO | 10 | 35 X8 |
| X12 | 11 | 36 X9 |
| X14 | 12 | 37 X10 |
| X15 | 13 | 38 X11 |
| X0 | 14 | 39 X13 |
| X1 | 15 | 40 X7 |
| X2 | 16 | 41 Y1 |
| X3 | 17 | 42 Y3 |
| X4 | 18 | 43 Y2 |
| X5 | 19 | 44 Y0 |
| X6 | 20 | 45 Y4 |
| Y4 | 21 | 46 BL |
| Y5 | 22 | 47 |
| Y6 | 23 | 48 |
| SL | 24 | 49 |
| | 25 | 50 CH GND |

J2

| | | |
|---|---|---|
| DATA STROBE | 1 | 19 |
| DATA 1 | 2 | 20 |
| DATA 2 | 3 | 21 |
| DATA 3 | 4 | 22 |
| DATA 4 | 5 | 23 |
| DATA 5 | 6 | 24 |
| DATA 6 | 7 | 25 |
| DATA 7 | 8 | 26 |
| DATA 8 | 9 | 27 |
| ACK | 10 | 28 |
| BSY | 11 | 29 |
| | 12 | 30 ±0V |
| | 13 | 31 RESET |
| | 14 | 32 |
| | 15 | 33 |
| | 16 | 34 ±0V |
| | 17 | 35 CH GND |
| | 18 | 36 |

| LOCATION | W.L. PART NO. | TERM NO. TO 0V | TERM NO. TO +5VR |
|---|---|---|---|
| L1 | 376-0108 | 8 | 16 |
| L2,17,31 | 376-0010 | 7 | 14 |
| L3,4 | 376-0049 | 8 | 16 |
| L5 | 376-0047 | 8 | 16 |
| L6,29,37 | 376-0055 | 7 | 14 |
| L7 | 377-0000 | — | 5 |
| L8,9 | 376-0011 | 8 | 16 |
| L10,11 | 376-0119 | 8 | 16 |
| L12,13,14,15 | 376-0176 | 8 | 16 |
| L16,23,33 | 376-0104 | 8 | 16 |
| L18,19 | SEE CHART | — | 12 |
| L20 | | 14 | 24 |
| L21,32,44 | 376-0081 | 7 | 14 |
| L22,24,31 | 376-0006 | 7 | 14 |
| L25,27 | 376-0093 | 7 | 14 |
| L26,42 | 376-0052 | 7 | 14 |
| L28,35,44,45 | 376-0056 | 7 | 14 |
| L30,56 | 376-0016 | 7 | 14 |
| L34,55 | 376-0013 | 12 | 5 |
| L38 | 376-0065 | 12 | 5 |
| L39,47 | 376-0004 | 7 | 14 |
| L40,48,49,50 | 376-0028 | 7 | 14 |
| L41 | 376-0126 | 8 | 16 |
| L43 | 376-0179 | 8 | 16 |
| L46,53 | 376-0009 | 8 | 16 |
| L36 | 376-0073 | 8 | 16 |

| COMPONENT | W.L. PART NO. |
|---|---|
| R1-11,13,15-24,26-32,34-52,62,63,65-71 | 330-3022 |
| R12,25,33,61,64 | 330-4033 |
| R14 | 330-4012 |
| R53-60 | 330-3068 |
| R62 | 330-3010 |
| D1-4 | 380-4006 |
| C1,4,7 | 300-5005 |
| C2,25,26 | 300-5006 |
| C3 | 300-1033 |
| C5,6 | 300-4001 |
| C8,10 | 300-5004 |
| C9,21-24,27 | 300-4022 |
| C11 | 300-1914 |
| C12-20 | 300-1904 |
| L18,19,20 | 376-9003 |

| 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. 2200 | TITLE SCHEMATIC LOGIBLOC |
|---|---|---|
| | SEE ENGRG SPECIFICATIONS No. | KEYBOARD/PRINTER/FLOPPY CONTROLLER |
| FINISH | TOL XX AS NOTED .XX ± .010 MAC 8/1/68 .XXX ± .005 ANG. ± 1°30' FINISH | 210-6742-R0 E 6742 F |
| | SCALE NONE SHT 6 OF 6 | WANG PART NUMBER SIZE DRAWING NUMBER REV |

| REVISION | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| A DRAWN PER ECO 2013 SJK/SC | DWN | 4-9-75 | E ENGR. | |
| B ADD PE, RB SIGS SJK/SC | CHK | | M ENGR | |
| C ADD PE, RB SIGS SJK/SC | E C CONTROL | | MFG ENGR | |
| D REV PE & RB SIGS SJK/SC | | | | |
| E ADD PE, RB SIGS SJK/SC | | | | |
| F REV PE & RB SIGS SJK/SC | | | | |
| G ADD PE, RB SIGS SJK/SC | | | | |
| H REV TERM ECO SJK/SC | | | | |
| J REV PE & RB SIGS SJK/SC | | | | |
| K REV PE & RB SIGS SJK/SC | | | | |
| L REV PE & RB SIGS SJK/SC | | | | |

E-REV L

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DO NOT SCALE

HOLE LEGEND

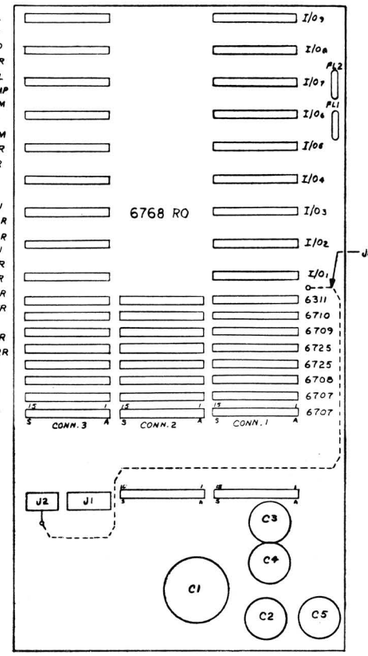
| DRILLED ON | HOLE DIA. | TOL. |
|---|---|---|
| PUNCHED HOLE | 0.135 in. (3.5 mm) | ±.002 |
| TOLERANCES | 1.34 in. (34 mm) | ±.004 |
| | 2.51 in. (64 mm) | ±.006 |

| EIGHT | DESCRIPTION | DATE |
|---|---|---|
| A | | |

6707 CONN.1 — 6707 CONN.2 — 6708 CONN.1 — 6725 CONN.1 — 6725 CONN.2 — 6709 CONN.1 — 6709 CONN.2 — 6710 CONN.1 — 6710 CONN.2 — 6311 CONN.1 — 6311 CONN.2 — L867 CONN.1

6707 CONN.3 — 6707 CONN.4 — 6708 CONN.3 — 6725 CONN.3 — 6725 CONN.4 — 6709 CONN.3 — 6710 CONN.3 — 6311 CONN.3

I/O1 — I/O2 — I/O3 — I/O4 — I/O5 — I/O6 — I/O7 — I/O8 — I/O9




JUMPER

NOTE: FOR POWER SUPPLY REGULATOR SEE DWG. D6439
FOR HEAT SINK ASSEMBLY SEE DWG. C6627-8
FOR INTERCONNECTION DIAGRAM SEE DWG. D6800-13

| COMPONENT | W.L.PART NO. |
|---|---|
| R1 | 332-2010 |
| R2,3,4,5 | 331-3010 |
| | |
| R9,11 | 334-0016 |
| R10 | 334-0014 |
| D1,D4,D2,D2A | 380-3000 |
| D3,4,5,6 | 380-3002 |
| C1 | 300-3050 |
| C2,5 | 300-3048 |
| C3,4 | 300-3019 |
| F1,2 | 360-1006 |
| FUSE CLIP | 360-0006 |
| ✱ VR1 | 380-5000 |
| ✱ VR2 | 380-5001 |
| BUSS | 654-1154 |
| J1 | 654-1177 |
| J2 | 654-1172 |
| CONN | 350-0011 |

✱ VR1 FOR 130V UNITS
VR2 FOR 250V UNITS

R10 1Ω 2.5W E1+12R +12VR
R9 .6Ω 4W 16 -12VR
R11 .6Ω 4W 8 -15VR

J1: B1-15R B2-12R B1-12R E1+8R -21V B1+5M -18VU B2+5M E1+12R E2+5MP +18VU B1+5L B1+8R

J2: +5V I/O, 9.5V BLU, BLU +15VR B2+5L ORN ORN

115/230V 50/60 HZ CH.GND VR2 230V FAN VR1 115V CHASSIS MOUNTED

MOV, FUSE, SW, XFMR, D6, D5, D4, D3, D2, D2A, D1, C5 6.8K 20V, C4 6.8K 20V, C3 6.8K 20V, C2 6.8K 20V, C1 12K 15V, R5 1K 1/2W, R9 1K 1/2W, R3 1K 1/2W, R2 1K 1/2W, R1 100Ω 1W, MDA

-18VU L567 (D6439) F2 6A +18VU I/O, I/O2 — F1 6A +18VU I/O, I/O1 — +15VR -21V L567 (D6439) 16 VAC — ±0V ±0V ±0V L567 (D6439) — ±0V +25V, 15A

E-REV 0

| REVISION | BY | DATE | APP'D |
|---|---|---|---|
| ORIG. PER D4A054 | | | |
| ADD'D R5 R9 R3 R2 R1 | | | |
| ADD'D J1, J2 | | | |
| ADD'D VR1, VR2 | | | |
| ADD'D E REV | | | |

| WANG PART NO | ITEM | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| FIRST USED ON | ASSY USED ON | | WANG LABORATORIES, INC. LOWELL, MASS. U.S.A. | | |

| | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| DWN | | 5-6-75 | E ENGR RGS | 7-1-75 |
| CHK | G.D. | 6-7-75 | M ENGR | |
| E C CONTROL | | | MFG ENGR | |

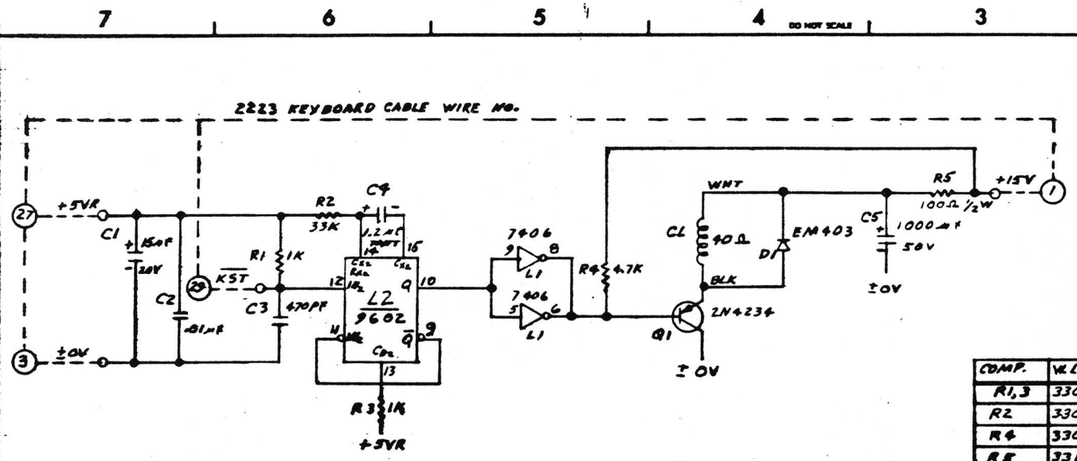
MATERIAL — FINISH

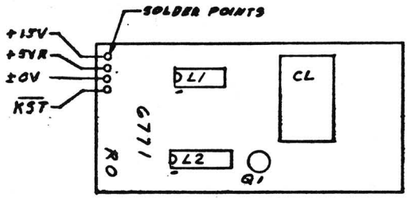
MODEL NO WCS 2200
SEE ENGINE SPECIFICATIONS
NO.

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

TITLE WCS MOTHERBOARD

SCALE — SHT 4 OF 5 — 210-6768 (WANG PART NUMBER) — E (SIZE) — 6768 (DRAWING NUMBER) — 0 (REV)




| LOCATION | W.L. PART No. | TERM. No. ±0V | TERM. No. +5VR |
|---|---|---|---|
| L1 | 376-6055 | 7 | 14 |
| L2 | 376-0104 | 8 | 16 |

| COMP. | W.L. PART No. |
|---|---|
| R1,3 | 330-3010 |
| R2 | 330-4033 |
| R4 | 330-3047 |
| R5 | 331-2010 |
| | |
| C1 | 300-4022 |
| C2 | 300-1903 |
| C3 | 300-1470 |
| C4 | 300-4013 |
| C5 | 300-3055 |
| | |
| Q1 | 375-1024 |
| | |
| D1 | 380-4000 |
| | |
| CL | 320-0049 |

HOLE LEGEND

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

| ASSMT. | DESCRIPTION | QTY |
|---|---|---|
| A | | |

E. REV. 0

| REVISION | BY | DATE |
|---|---|---|
| ADD PART NO. | D.S. | 5-29-75 |

| 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 | [illegible] | 5/29/75 | E ENGR | 5-29-75 |
| CHK | [illegible] | 5/29/75 | M ENGR | |
| | | | E. C. CONTROL | MFG ENGR |

MATERIAL — MODEL NO. 2223 — SEE ENGRG SPECIFICATIONS No. ____

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

TITLE SCHEMATIC LOGIBLOC KEYBOARD CLICKER

| 210-6771 | C | 6771 | C |
|---|---|---|---|
| WANG PART NUMBER | SIZE | DRAWING NUMBER | REV |

SCALE — SHT 4 OF 5

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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 | ± .005 |

| IDENT | DESCRIPTION | QTY |
|---|---|---|
| A | | |

J1

J2

CONN.1

CONN.2

CONN.3

SIGNAL-TERMINAL DESIGNATIONS, VIEW FROM BOTTOM OF CONNECTOR

COMP. SIDE — WIRING SIDE

COMPONENT LAYOUT

| COMPONENT | W.L. PART NO. |
|---|---|
| R44,47 R1-20,63,64,65,66,67, R49,50-53,55,56,63, | 330-3047 |
| R22-24,36,45,47 | 330-4010 |
| R27-34,38-44,48-50, 54,57-62,64 | 330-1047 |
| C, 8-17 | 300-1903 |
| C2 | 300-2068 |
| C3 | 300-2015 |
| C4 | 300-2022 |
| C5 | 300-1904 |
| C6 | 300-1905 |
| C7 | 300-1900 |
| C19,20 | 300-4022 |
| C21 | 300-2010 |
| C23 | 300-1913 |
| R65 | 333-0011 |
| SW.1 | 325-1503 |
| SW.CAP | 325-9047 |
| C22 | 300-5006 |
| J1 | 350-1038 |
| J2 | 350-1027 |

| LOCATION | W.L. PART NO. | TERM. NO. ±0V | TERM. NO. Vcc+5VR |
|---|---|---|---|
| L1,6,16,23 | 376-0010 | 7 | 14 |
| L2 | 376-0048 | 8 | 16 |
| L3 | 376-0049 | 8 | 16 |
| L4,5,7,32 | 376-0056 | 7 | 14 |
| L8,17,19 | 376-0006 | 7 | 14 |
| L9 | 376-0003 | 7 | 14 |
| L10,11 | 376-0179 | 8 | 16 |
| L12,15,24 | 376-0080 | 8 | 16 |
| L13,14 | 376-0119 | 8 | 16 |
| L18,22 | 376-0002 | 7 | 14 |
| L17A,20 | 376-0005 | 11 | 4 |
| L21,29 | 376-0081 | 7 | 14 |
| L25,26 | 376-0148 | 7 | 14 |
| L27,28,30,31,33 | 376-0176 | 8 | 16 |
| L7A | 376-0086 | 7 | 14 |

| REV | REVISION | BY | DATE |
|---|---|---|---|
| 0 | ORIG. PER DWR-2009 | RJS | 10-15-75 |
| 1 | REVISED PER ECN #2084 AND ECN #2120 | RJS | 11-21-75 |
| 2 | REVISED PER ECN #2089 | RJS | 10/31/76 |
| 3 | REVISED PER ECN #2111 APP. 2. | RJS | 6/8/77 |

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 R.S. 7/2/75 / E ENGR. 9/24/75 | |
| | | | | CHK G.D. 7/30/75 / M ENGR | |
| | | | MODEL NO. 2230 MxA | E C CONTROL / MFG ENGR | |
| | | | SEE ENGRG SPECIFICATIONS No. | TITLE SCHEMATIC LOGIBLOC DAISY CHAIN MULTIPLEXER | |
| | | | TOL EX AS NOTED .XX ± .010 FRAC ± 1/64 .XXX ± .005 ANG ± 1°30' FINISH | 210-6785 / E / 6785 / 4 | |
| | | | SCALE — / SHT #1 OF #1 | WANG PART NUMBER / SIZE / DRAWING NUMBER / 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 | | |

| LOCATION | W.L. PART NO. | TERM. NO. ±0V | TERM. NO. Vcc+5VR |
|---|---|---|---|
| L1 | 376-0051 | 7 | 14 |
| L2 | 376-0006 | 7 | 14 |
| L3 | 376-0005 | 11 | 4 |
| L4,6 | 376-0081 | 7 | 14 |
| L5 | 376-0002 | 7 | 14 |
| L7,8 | 376-0148 | 7 | 14 |
| L9 | 376-0010 | 7 | 14 |
| L10 | 376-0056 | 7 | 14 |
| L11-15 | 376-0176 | | |

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

CONN.1

| | | | |
|---|---|---|---|
| +5VR | A 1 | 2 B | +5VR |
| ±0V | C 3 | 4 D | ±0V |
| $\overline{AB1}$ | E 5 | 6 F | $\overline{AB2}$ |
| $\overline{AB4}$ | H 7 | 8 J | $\overline{AB3}$ |
| $\overline{AB5}$ | K 9 | 10 L | |
| $\overline{OBS}$ | M 11 | 12 N | |
| $\overline{AB8}$ | P 13 | 14 R | $\overline{IB3}$ |
| $\overline{IB4}$ | S 15 | 16 T | $\overline{IB1}$ |
| $\overline{IB2}$ | | | |

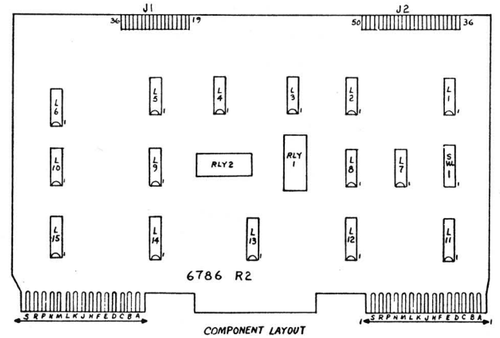
CONN.2

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

CONN.3

| | | | |
|---|---|---|---|
| $\overline{OB1}$ | A 1 | 2 B | $\overline{IBS}$ |
| $\overline{OB2}$ | C 3 | 4 D | |
| $\overline{OB3}$ | E 5 | 6 F | PRMS |
| $\overline{OB4}$ | H 7 | 8 J | $\overline{CPB}$ |
| $\overline{OB5}$ | K 9 | 10 L | |
| $\overline{OB6}$ | M 11 | 12 N | |
| $\overline{OB7}$ | P 13 | 14 R | $\overline{AB6}$ |
| $\overline{OB8}$ | S 15 | 16 T | $\overline{AB7}$ |
| RB | U 17 | 18 V | $\overline{AB8}$ |
| ±0V | W 19 | 20 X | ±0V |
| +5VR | Y 21 | 22 Z | +5VR |
| +12V | a 23 | 24 b | +12V |
| COMP. SIDE | | | WIRING SIDE |

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



COMPONENT LAYOUT

| REVISION | BY | DATE |
|---|---|---|
| ENG E 6786 | AK | 1-29-75 |
| REVISED PER ECO M 11722 APP'D | AK | 8-12-75 |
| REVISED PER ECO M 11861 APP'D | AK | 9-16-75 |

| WANG PART NO | ITEM | QTY | NAME |
|---|---|---|---|
| PC. TYP. FIRST USED ON | ASSY USED ON | | WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A. |
| | | | MATERIAL |
| | | | MODEL NO 2230 MXB |
| | | | SEE ENGRG SPECIFICATIONS No. |
| | | | FINISH |
| | | | TOL. ON AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG. ± 1°30' FINISH |
| | | | SCALE 2/1 SHT 1 OF 1 |

| MATERIAL | | DESCRIPTION | |
|---|---|---|---|
| | BY | DATE | APPROVED BY | DATE |
| DWN CR | 1-29-75 | E ENGR | | |
| CHK J.D. | 2-6-75 | M ENGR | | |
| E.C. CONTROL | | MFG ENGR | | |

TITLE: SCHEMATIC LOGIBLOC MULTIPLEXER SLAVE CONTROL CARD

| 210-6786 | E | 6786 | 2 |
|---|---|---|---|
| WANG PART NUMBER | SIZE | DRAWING NUMBER | REV |

E-REV 0

E 6786

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DO NOT SCALE

| LOC. | W.L. PART No. | 20V | +5VR |
|---|---|---|---|
| L32 | 376-0011 | 10 | 5 |
| L2 | 376-0005 | 11 | 4 |
| L3 | 376-0182 | 21 | 1 |
| L4 | 376-0093 | 7 | 14 |
| L5,6 | 376-0094 | 8 | 16 |
| L7,8 | 376-0082 | 8 | 16 |
| L9,10,19 | 376-0008 | 8 | 16 |
| L11,18 | 376-0081 | 7 | 14 |
| L12,14,20,21, 28,29,33,34 | 377-0310 | 20 | 11 |
| L15 | 376-0181 | 20 | 1 |
| L16,25 | 376-0119 | 8 | 16 |

| LOC. | W.L. PART No. | 20V | +5VR |
|---|---|---|---|
| L17 | 376-0153 | 7 | 14 |
| - | - | - | - |
| - | - | - | - |
| L22,23,26 | 376-0179 | 8 | 16 |
| L26 | 376-0002 | 7 | 14 |
| L27, 30 | 376-0018 | 7 | 14 |
| L31 | 376-0016 | 7 | 14 |
| L35,36 | 376-0137 | 8 | 16 |
| L37 | 376-0178 | 7 | 14 |
| L38 | 376-0126 | 1 | 8 |

| COMPONENT | W.L. PART No. |
|---|---|
| R1,2,36 | 330-4010 |
| R3-23,27,30-33, 37-43,28 | 330-3010 |
| R24 | 330-2033 |
| R25,26 | 330-1010 |
| - | - |
| R29 | 330-2068 |
| - | - |
| R34 | 330-2034 |
| R35 | 330-6022 |
| R36 | 330-3047 |
| - | - |
| C1,3,21,27 | 300-9022 |
| C2,8,9,10 | 300-1900 |
| C4 | 300-1330 |
| C5 | 300-2067 |
| C6, 11-16 | 300-1903 |
| C7 | 300-1220 |
| C17,18,19,20 | 300-1901 |
| C22,23,24,25 | 300-1918 |
| C26 | 300-3009 |
| - | - |
| XTAL 1.8432MHz | 321-0015 |
| D1 | 380-2052 |
| Q1 | 375-1050 |
| - | - |
| J1 (16 PIN) | 376-9002 |
| L17,18,20,21,28,29, 33,39 (SOCKET 22PIN) | 376-9010 |
| L3,15 (SOCKET 40PIN) | 376-9011 |

NOTE:
1. WESTERN DIGITAL CHIP FOR THE SEND AND RECIVE CIRCUITS.

E-REV 0

| REVISION | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| ADD PINS, TP1,2 | | 6/12/74 | | |
| CHANGE L38 TO 555 | | 6/12/74 | | |
| ADD C5 | | 6/12/74 | | |
| CHANGE R35 TO 2.2M | | 6/12/74 | | |
| ADD R34 | | 6/12/74 | | |
| ADD L38 | | 6/12/74 | | |
| ADD C4 | | 6/12/74 | | |
| ADD R26 | | 6/12/74 | | |
| ADD C1 | | 6/12/74 | | |
| ADD R24 | | 6/12/74 | | |
| ADD R25 | | 6/12/74 | | |
| ADD L37 | | 6/12/74 | | |
| ADD Q1 | | 6/12/74 | | |
| ADD R27 | | 6/12/74 | | |
| ADD C7 | | 6/12/74 | | |
| ADD L32 | | 6/12/74 | | |
| ADD C6 | | 6/12/74 | | |
| ADD R29 | | 6/12/74 | | |
| ADD R31 | | 6/12/74 | | |
| ADD L39 | | 6/12/74 | | |
| ADD L40 | | 6/12/74 | | |
| ADD L41 | | 6/12/74 | | |
| ADD L42 | | 6/12/74 | | |
| ADD L43 | | 6/12/74 | | |
| ADD R28 | | 6/12/74 | | |
| ADD R30 | | 6/12/74 | | |
| ADD R32 | | 6/12/74 | | |
| ADD R33 | | 6/12/74 | | |
| ADD R35 | | 6/12/74 | | |
| ADD R36 | | 6/12/74 | | |
| ADD R37 | | 6/12/74 | | |
| ADD R38 | | 6/12/74 | | |
| ADD R39 | | 6/12/74 | | |
| ADD R40 | | 6/12/74 | | |
| ADD R41 | | 6/12/74 | | |
| ADD R42 | | 6/12/74 | | |
| ADD R43 | | 6/12/74 | | |
| ADD C11 | | 6/12/74 | | |
| ADD C12 | | 6/12/74 | | |
| ADD C13 | | 6/12/74 | | |
| ADD C14 | | 6/12/74 | | |
| ADD C15 | | 6/12/74 | | |
| ADD C16 | | 6/12/74 | | |
| ADD C17 | | 6/12/74 | | |
| ADD C18 | | 6/12/74 | | |
| ADD C19 | | 6/12/74 | | |
| ADD C20 | | 6/12/74 | | |
| ADD C21 | | 6/12/74 | | |
| ADD C22 | | 6/12/74 | | |
| ADD C23 | | 6/12/74 | | |
| ADD C24 | | 6/12/74 | | |
| ADD C25 | | 6/12/74 | | |
| ADD C26 | | 6/12/74 | | |
| ADD C27 | | 6/12/74 | | |

| WANG PART NO | ITEM | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| PC. No. / FIRST USED ON / ASSY USED ON | | | WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A. | | |
| | | | MATERIAL | MODEL NO. 2228 | BY / DATE / APPROVED BY / DATE |
| | | | | SEE ENGNG SPECIFICATIONS No. | DWN GB 6-8-74 / E ENGR [illegible] 6/12/74 |
| | | | | | CHK [illegible] 6-8-74 / M ENGR |
| | | | | | E C CONTROL / MFG ENGR |
| | | | FINISH | TOL EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG ± 1°30' FINISH | TITLE SCHEMATIC, LOOPBACK TRANSMITER, RECIVER AND MEMORY |
| | | | | SCALE / SHT 1 OF 5 | 210 / E 7024 / 1 |
| | | | | | WANG PART NUMBER / SIZE / DRAWING NUMBER / REV |

E 7024

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DO NOT SCALE

HOLE LEGEND

| | HOLE DIA. | TOL. |
|---|---|---|
| DRILLED OR PUNCHED HOLE | .0135 to .125 | ±.003 |
| | .126 to .350 | ±.005 |
| TOLERANCES: | .351 to .500 | ±.007 |

| IDENT. | DESCRIPTION | QTY. |
|---|---|---|
| A | | |

J3

| | | | |
|---|---|---|---|
| GKA0 | 1 | 19 | |
| GKA1 | 2 | 20 | GIoB2F |
| GKA2 | 3 | 21 | GIoB1F |
| GKA3 | 4 | 22 | GIoB0F |
| GKB0 | 5 | 23 | GIoB3F |
| GKB1 | 6 | 24 | GIoA0F |
| GKB2 | 7 | 25 | GIoA1F |
| GKB3 | 8 | 26 | GIoA2F |
| GISN | 9 | 27 | GIoA3F |
| GPRN | 10 | 28 | ABc |
| BSY | 11 | 29 | |
| DN3 | 12 | 30 | ABB |
| | 13 | 31 | GISO |
| | 14 | 32 | GKBO |
| +12V | 15 | 33 | +0V |
| | 16 | 34 | +0V |
| | 17 | 35 | +0V |
| -12V | 18 | 36 | CH. GND |

COMPONENT LAYOUT

J1

| | | | |
|---|---|---|---|
| +15VUR | 1 | 26 | +15VUR |
| BASIC/ALPHA | 2 | 27 | +5VR |
| +0V | 3 | 28 | +0V |
| | 4 | 29 | KST |
| NC | 5 | 30 | SRO |
| SLKO | 6 | 31 | SRC |
| SLKC | 7 | 32 | |
| SLC | 8 | 33 | HO |
| RC | 9 | 34 | SLO |
| RO | 10 | 35 | X8 |
| X12 | 11 | 36 | X9 |
| X14 | 12 | 37 | X10 |
| X15 | 13 | 38 | X11 |
| X0 | 14 | 39 | X13 |
| X1 | 15 | 40 | X7 |
| X2 | 16 | 41 | Y1 |
| X3 | 17 | 42 | Y3 |
| X4 | 18 | 43 | Y2 |
| X5 | 19 | 44 | Y0 |
| X6 | 20 | 45 | Y7 |
| Y4 | 21 | 46 | BL |
| Y5 | 22 | 47 | |
| Y6 | 23 | 48 | |
| SL | 24 | 49 | |
| CH. GND | 25 | 50 | CH. GND |

J2

| | | | |
|---|---|---|---|
| DATA STROBE | 1 | 19 | |
| DATA 1 | 2 | 20 | |
| DATA 2 | 3 | 21 | |
| DATA 3 | 4 | 22 | |
| DATA 4 | 5 | 23 | |
| DATA 5 | 6 | 24 | |
| DATA 6 | 7 | 25 | |
| DATA 7 | 8 | 26 | |
| DATA 8 | 9 | 27 | |
| ACK | 10 | 28 | |
| BSY | 11 | 29 | +0V |
| | 12 | 30 | |
| | 13 | 31 | RESET |
| | 14 | 32 | |
| | 15 | 33 | |
| +0V | 16 | 34 | |
| CH. GND | 17 | 35 | |
| | 18 | 36 | |

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

CONN.1

| | | |
|---|---|---|
| +15VUR | A1 | |
| +5VR | B2 | |
| +0V | C3 | |
| AB1 | D4 | |
| AB4 | E5 | ABc |
| AB2 | F6 | AB3 |
| OBS | G7 | |
| ABS | H8 | |
| HALT | J9 | |
| IB7 | K10 | IB5 |
| IB6 | L11 | |
| IB5 | M12 | |
| IB4 | N13 | IB3 |
| IB2 | P14 | IB1 |
| | R15 | |

CONN.2

| | | |
|---|---|---|
| TP8 | A1 | TP9 |
| TP9 | B2 | |
| TP10 | C3 | |
| TP6 | D4 | |
| TP13 | E5 | TP11 |
| TP7 | F6 | |
| TP14 | H7 | |
| TP16 | J8 | TP18 |
| TP2 | K9 | |
| TP5 | L10 | |
| TP11 | M11 | |
| TP12 | N12 | |
| TP3 | P13 | |
| TP15 | R14 | |
| TP4 | S15 | TP1 |

CONN.3

| | | |
|---|---|---|
| OB1 | A1 | IB5 |
| OB2 | B2 | IB3 |
| OB3 | C3 | PRIME |
| OB4 | D4 | CPB |
| OB8 | E5 | |
| OB7 | F6 | AB4 |
| OB6 | H7 | AB7 |
| OB5 | J8 | AB6 |
| RB | K9 | |
| CH. GND | L10 | |
| | M11 | |
| | N12 | -12V |
| | P13 | +0V |
| | R14 | +5VR |
| | S15 | +12V |

COMP. SIDE — WIRING SIDE

E-REV O

| LOCATION | W.L. PART NO. | TERM. NO. T0V | TERM. NO. V0+5VR |
|---|---|---|---|
| L1 | 376-0108 | 8 | 16 |
| L17,51 | 376-0010 | 7 | 14 |
| L4,43 | 376-0069 | 8 | 16 |
| L5 | 376-0047 | 8 | 16 |
| L6,29,37 | 376-0055 | 7 | 14 |
| L7 | 377-0600 | — | 5 |
| L8,9 | 376-0011 | 10 | 5 |
| L10,11 | 376-0119 | 8 | 16 |
| L12,13,14,15 | 376-0176 | 8 | 16 |
| L16,23,33 | 376-0104 | 8 | 16 |
| L18,19 | SEE CHART | | 12 |
| L20 | SEE CHART | 14 | 24 |
| L21,32,46 | 376-0081 | 7 | 14 |
| L22,24,31 | 376-0026 | 7 | 14 |
| L27 | 376-0093 | 7 | 14 |
| L26 | 376-0002 | 7 | 14 |
| L28,35,44,45 | 376-0056 | 7 | 14 |
| L30,34 | 376-0016 | 7 | 14 |
| L38 | 376-0013 | 12 | 5 |
| L39 | 376-0065 | 12 | 5 |
| L39,47 | 376-0004 | 7 | 14 |
| L40,48,49,50 | 376-0028 | 7 | 14 |
| L41 | 376-0166 | 1 | 8 |
| L42 | 376-0177 | 8 | 16 |
| L55 | 376-0008 | 8 | 16 |
| L36 | 376-0098 | 8 | 16 |

| COMPONENT | W.L. PART NO. |
|---|---|
| R1-11,13,15-24,26-32,34-52,63,65-71,73-77 | 330-3022 |
| R12,25,33,61,64 | 330-4035 |
| R14 | 330-4012 |
| R53-60 | 330-3068 |
| R62 | 330-3010 |
| C28,29 | 300-1906 |
| D1-4 | 380-4000 |
| U | 129-1037 REF. |
| C1,4,7 | 300-5005 |
| C2,25,26 | 300-5006 |
| C3 | 300-1033 |
| C5,6 | 300-4001 |
| C8,10 | 300-5004 |
| C9,21-24,27 | 300-4002 |
| C11 | 300-1914 |
| C12-20 | 300-1904 |
| J2,3 | 377-0238 REF |
| L18,19,20 | 376-9003 |
| SW1 | 325-1503 |
| SWITCH CAP | 325-9067 ENC. STAT. |
| L34 | 376-0131 12 5 |

* NOTE: L2 = SPARE

ASSEMBLY VARIATION CHART

210 = 209 +377 OR 378

| | | |
|---|---|---|
| 7042-A | 7042<br>DELETE:<br>R47 (2.2K)<br>SOCKETS L18&L19<br>JUMPER #2 | L20 = 377-0260 |
| 7042-1A | 7042-1<br>DELETE:<br>SOCKETS L20, L6<br>R37 THRU R46(2.2K)<br>R53 THRU R60(6.8K)<br>JUMPERS #1&2 | L18&L19= 377-0009 |

C12-C20=.02μf, 25V., CER.
C21-C24, C27=15μf, 20V, TANT.

| WANG PART NO. | ITEM | QTY. | NAME |
|---|---|---|---|
| PL. PT. FIRST USED ON | ASSY USED ON | | |

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

MATERIAL

FINISH

MODEL NO 2200

SEE ENGRG SPECIFICATIONS

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

SCALE — SHT 4 OF 6

| MATERIAL | DESCRIPTION | | |
|---|---|---|---|
| BY | DATE | APPROVED BY | DATE |
| DWN JS | 7-10-75 | ENGR. | 7-9-75 |
| CHK. D. D. | 7/9/75 | M. ENGR | |
| I. C. CONTROL | | MFG ENGR | |

TITLE SCHEMATIC LOGIBLOC
KEYBOARD/PRINTER/FLOPPY CONTROLLER

SEE LOADING VARIATION CHART | E | 7042 | 01

WANG PART NUMBER | SIZE | DRAWING NUMBER | REV.

| REVISION | DRWN | CHK'D | APPD |
|---|---|---|---|
| ADDED PER DWR 6034 | JS | 7-10-75 | |
| ADDED PER ECN 6048 | JS | 7-10-75 | |
| REVISED FOR ECN 6048, ADDED PRINT | JS | 7-10-75 | |

DO NOT SCALE

EXTERNAL

P.C. BOARD 6355

410-0090 50 Hz
410-0088 60 Hz

250V 3 A-SB
125V 5 A-SB
115/230 VAC 60 Hz
115/230 VAC 50 Hz

POWER

FAN 115VAC

230VAC

115VAC

| LOCATION | TYPE | W.L. PART NO. | TERM. NO. ±0V | TERM. NO. $V_{cc}$ +5VR | QTY |
|---|---|---|---|---|---|
| L1,2,4,5 | 723C | 376-0066 | — | — | 4 |
| L3;6 | LM304 | 376-0134 | — | — | 2 |

COMPONENT LAYOUT

L567-R2

SRPNMLKJHEEDCBA

SRPNMLKJHFEDCBA

OUTPUT CONNECTOR

| PIN NO. | SIGNAL |
|---|---|
| 1,2,3,4 | +5VRL |
| 5,6 | +5VRM |
| 7 | +8.5VU |
| 8 | -17VU |
| 9 | +17.5VU |
| 10,11,12 | ±0V (ZEA) |
| 13 | 115VAC (HOT) |
| 14 | CH. GND |
| 15 | 115VAC (NEUT) |
| 16 | PNC |
| 17 | PNO |
| 18 | WTR |
| 21 | +12VR |
| 22 | +8VR |
| 23 | -12VR |
| 24 | -18VR |

EXTERNAL SINK COMPONENT LAYOUT WIRING SIDE

X1 MDA970 X2 X3 X4 X5 1N1200A (4) X6 X7 X8 X9 X10 X11

NOTE:
THIS DRAWING IS A INTERCONNECTING DIAGRAM AND ANY CHANGES TO THE L567 PORTION MUST ALSO BE RECORDED ON DWG. D6439. (L567).

1st HALF

| | | |
|---|---|---|
| A | 1 | +5VRM |
| B | 2 | +5VRL |
| C | 3 | ±0V |
| D | 4 | ±0V |
| E | 5 | B2+5L |
| F | 6 | +16V |
| H | 7 | B2+5L |
| J | 8 | B1+8R |
| K | 9 | B1+5L |
| L | 10 | B2+5M |
| M | 11 | B2+5M |
| N | 12 | +8VR |
| P | 13 | B1+5M |
| R | 14 | B1+8R |
| S | 15 | +12VR |

2nd HALF

| | | |
|---|---|---|
| A | 1 | +17.5V |
| B | 2 | E1+12R |
| C | 3 | B1+12R |
| D | 4 | -17V |
| E | 5 | -12VR |
| F | 6 | -15VR |
| H | 7 | B1-15R |
| J | 8 | B2-15R |
| K | 9 | -20V |
| L | 10 | B1-12R |
| M | 11 | B2-12R |
| N | 12 | ±0V |
| P | 13 | ±0V |
| R | 14 | WTR |
| S | 15 | |

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

COMP SIDE — WIRING SIDE

| REVISION | DATE | BY | CHK | E.C.S. | E.B.A. | B.K. | |
|---|---|---|---|---|---|---|---|
| REVISED PER RAA. 0764 APPD B.O.H. | 6-26-73 | C.S. | | 2-5-75 | 6-5-75 | 6-11-75 | 1 |
| ADDED PC BOARD OUTLINE APPD B.O.H. | 9-6-73 | | | | | | 2 |
| REVISED PER ECN 3818 APPD C.Blu | 10-10-73 | | | | | | 3 |
| REVISED PER ECN 3884 APPD C.Blu | 10-24-73 | | | | | | 4 |
| PER ECN 3880 R27 WAS 1KW APPD C.Blu | 11-9-73 | | | | | | 5 |
| REVISED PER ECN 3905 APPD C.Blu | 11-16-73 | | | | | | 6 |
| REVISED PER ECN 4012 APPD C.Blu | 1-22-74 | | | | | | 7 |
| TABLE OF CONTENTS ADDED APPD: P. RICKER | 10-23-74 | | | | | | 8 |
| REVISED PER E.C.N. 4697 & E.A. 1491 APPD P. Rick. | 2-5-75 | | | | | | 9 |
| REVISED PER ECN 4837 APPD P. Rick. 6-5-75 | 6-5-75 | | | | | | 10 |
| REV PER ECN 4859 APPD: P. Rick. 6-11-75 | 6-11-75 | | | | | | 11 |
| REV PER ECO 5347 APPD P. Rick. 8/7/75 | 8/7/75 | | | | | | 12 |

WANG LABORATORIES INC.
TEWKSBURY, MASS.

| | | | |
|---|---|---|---|
| MODEL NO. 6422 | DRAWN C.S. | 3-15-73 | APP. B.O.H. 5-2-73 |
| TITLE INTERCONNECTION DIAG. 2200 POWER SUPPLY | CHKD A.D. | 6-5-75 | APP. |
| SHT 1 OF 1 | SIZE D | DWG. NO. 6422-999 | REV 12 |

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DO NOT SCALE

MOTHER BOARD

CHASSIS MOUNTED

115/230V 50/60 Hz

T1

D1 1N1200A

D2 1N1200A

D3 1N4719

D4 1N4719

D5 1N4719

D6 1N4719

HEAT SINK

MDA HEAT SINK

L567

+15VR

+9.5V 1.5A

+18VU TO I/O, P1.

-18VU TO I/O, P1.

F1 .6A

F2 .6A

+5VRM

+5VRL

+8VR

+12VR

-15VR

-18VU

-21V

+2.5V

+8.5V

J1

| | | | |
|---|---|---|---|
| B1-15R | 1 | 2 | B2-12R |
| B2-15R | 3 | 4 | B1-12R |
| -21V | 5 | 6 | E1+8R |
| -18VU | 7 | 8 | B1+5M |
| B1+12R | 9 | 10 | B2+5M |
| E1+12R | 11 | 12 | E2+5M |
| +18VU | 13 | 14 | B1+5L |
| -12VR | 15 | 16 | B1+8R |

J2

| | | | |
|---|---|---|---|
| | 1 | 2 | E2+5L |
| | 3 | 4 | +15VR |
| | 5 | 6 | B2+5L |
| +2.5V | 7 | 8 | |
| BLU | 9 | 10 | ORN |
| BLU | 11 | 12 | ORN |

COMPONENT LAYOUT

+12V -12V -12V +5VRM +5VRL +5VRL +5VRL +8.5V +5VRM -15V -15V

C4 (NEXT TO L567) OPEN 6000MFD +5VRM = 10V +8V = 11V

C3 6000 MFD TROUBLE ADJ. DOWN TO +12V VERY HIGH RIPPLE +12V 50 mV RIPPLE ON +5VL

| | | |
|---|---|---|
| 40251 | 375-1008 | Q5, Q7 |
| 2N5956 | 375-1030 | Q3, Q11 |
| 40250 | 375-1022 | Q1, Q2, Q8, Q9, Q4, Q10 |

CONN.1 (SIGNAL-TERMINAL DESIGNATIONS, VIEW FROM BOTTOM (WIRING) SIDE OF CONNECTOR)

| | | | |
|---|---|---|---|
| | A | 1 | +5VRM |
| | B | 2 | +5VR_ |
| ±0V | C | 3 | ±0V |
| ±0V | D | 4 | ±0V |
| | E | 5 | B2+5L |
| | F | 6 | +15VR |
| | H | 7 | E2+5L |
| | J | 8 | B1+8R |
| | K | 9 | B1+5L |
| | L | 10 | E2+5M |
| | M | 11 | B2+5M |
| | N | 12 | +8VR |
| | P | 13 | B1+5M |
| | R | 14 | E1+8R |
| | S | 15 | +12VR |

CONN.2

| | | | |
|---|---|---|---|
| | A | 1 | +18VU |
| | B | 2 | E1+12R |
| | C | 3 | B1+12R |
| | D | 4 | -18VU |
| | E | 5 | -12VR |
| | F | 6 | -15VR |
| | H | 7 | B1-15R |
| | J | 8 | B2-15R |
| | K | 9 | -21V |
| | L | 10 | B1-12R |
| | M | 11 | B2-12R |
| ±0V | N | 12 | ±0V |
| ±0V | P | 13 | ±0V |
| MVAC | R | 14 | WTR |
| MVAC | S | 15 | |

COMP SIDE — WIRING SIDE

NOTE: FOR PARTS LIST, REFER TO ORIGINAL DRAWINGS.
SEE D6439 FOR L567 BD.
SEE E6560 FOR MOTHER BD.
SEE C6627-998 FOR HEAT SINK

| REVISION | DRAWN | APPROVED |
|---|---|---|
| A | DWR-E013 AP'D 12-25-74 | |
| B | REV. PER ECN "Front Panel Changes" | |

| 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 AR | E ENGR |
| | | | | CHK | M ENGR |
| | | | | E C CONTROL | MFG ENGR |
| MATERIAL | | | MODEL NO 22005 3 OR 6 I/O | TITLE SCHEMATIC LOGIBLOC INTERCONNECTION DIAGRAM | |
| FINISH | | | SEE ENGRG SPECIFICATIONS No. | | |
| | | | TOL EX AS NOTED XX ± .010 FRAC ± 1/64 XXX ± .005 ANG. ± 1°30' | SCALE NONE SHT 4 OF 5 | WANG PART NUMBER D 6627-999 SIZE DRAWING NUMBER REV 1 |

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DO NOT SCALE

115/230 60/60Hz
BLK
GRN
WHT
CHGND
FAN
V2R 230V
V1R 115V
BRN
BRN/YEL
BLK
BLK/WHT
CHASSIS MOUNTED
T1
HEAT SINK
1N1200A (TYP-6)
D1
D1A
D2
D2A
D3 1N4719
D4 1N4719
D5 1N4719
D6 1N4719
MOTHER BOARD
MDA HEAT SINK
R1 100Ω 1W
R2 1K ½W
R3 1K ½W
R4 1K ½W
R5 1K ½W
C1 77K µf 15V
C2 7K µf 35V
C3 6K µf 20V
C4 5K µf 20V
C5 7K µf 35V
+9.5V
±0V
±15VR
±18VU TO J0,1
-18VU TO J0,10
F1 .6A
F2 .6A
L567
R34 R40 R30 R13 R17 R2
-12VR -5VR +18VU +15VR
Q4 Q3 Q2 Q1 Q6 Q5
L3 L2 L1 L6 L5 L4
SRPNMLKJHFEDCBA
COMPONENT LAYOUT
J1
B1-15R 1 2 B2-12R
B2-15R 3 4 B1-12R
-21V 5 6 E1+8R
-18VU 7 8 B1+5M
B1+12R 9 10 B2+5M
E1+12R 11 12 E2+5M
+18VU 13 14 B1+5L
-12VR 15 16 B1+8R
J2
1 2 E2+5L
3 4 +15VR
5 6 B2+5L
+9.5V 7 8
BLU 9 10 ORN
BLU 11 12 ORN
+15VR
R1 1.5K
R2 1K POT
R3 4.7K
L4 T23C
E2+5L
R5 330Ω
R6 1K
R7 560Ω
R8 680Ω
C6 18µf 15V(T)
C27 2.2µf 20V(T)
C9 14µf 35V(T)
Q5 2N4037
Q6 2N5301
40250
B2+5L
R7 .15Ω 10W
MOTHER BOARD
C3 14µf 35V(T)
R10 560Ω
L5 T23C
F COMP
C9 82pf 3.5V(T)
C4 14µf 35V(T)
Q9 40250
B1+8R
R11 470Ω
E1+8R
R12 1Ω ½W
R13 1K POT
R14 2.2K
C10 14µf 35V(T)
D1 IN746A
+8VR
R15 1K
C11 14µf 35V(T)
C25 14µf 35V(T)
R19 1K
Q1 2N4037
C5 14µf 35V(T)
R16 1.5K
R17 1K POT
R18 4.7K
L1 T23C
C12 .14µf
R20 470Ω
E2+5M
R21 1K
R22 220Ω
R23 1.5K
C7 47µf 15V(T)
R24 620Ω
Q4 40250
Q5 40251
B2+5M
R8 15Ω 10W
+5VRM
D2 IN5823
R25 150Ω ½W
C13 14µf 35V(T)
R27 1K
Q2 2N4037
C14 14µf 35V(T)
B1+12R
R26 1.6K
L2 T23C
R28 220Ω
R32 1.5K
R29 2.2K
R30 1K POT
R31 3.3K
C16 100pf
R33 6.8K
Q1 40250
E1+12R
R10 1Ω 2.5W
C15 10µf 35V(T)
+12VR
R34 10K POT
C17 10µf 35V(T)
R35 12K
L3 LM304
R37 27Ω
R38 1.5K
Q3 2N4037
Q3 2N5956
Q2 40250
R9 .6Ω 4W
R36 2.2K
C18 .001µf
R39 220Ω
C19 .47µf 35V(T)
-12VR
R40 10K POT
C20 10µf 35V(T)
R41 12K
L6 LM304
R43 27Ω
R44 1.5K
Q6 2N4037
Q11 2N5956
Q10 40250
R11 .6Ω 4W
B1+15R
B2-15R
R42 2.2K
C21 .001µf
R45 220Ω
C22 .47µf 35V(T)
-15VR
-21V
D3
R48 8.2K 5%
R50 3.3K
+5VRL
WTR
Q4 2N3014
D4 D5 D6 D7
C23 10µf 35V(T)
R46 1K
R47 1K
C24 33µf 15V(T)
C26 1.2µf 35V(T)
R51 39K 5%

CONN.1
A 1 +5VRM
B 2 +5VRL
C 3 ±0V
D 4 ±0V
E 5 B2+5L
F 6 +15VR
H 7 E2+5L
J 8 B1+8R
K 9 B1+5L
L 10 E2+5M
M 11 B2+5M
N 12 +8VR
P 13 B1+5M
R 14 E1+8R
S 15 +12VR

CONN.2
A 1 +18VU
B 2 E1+12R
C 3 B1+12R
D 4 -18VU
E 5 -12VR
F 6 -15VR
H 7 B1+5R
J 8 B2-15R
K 9 -21V
L 10 B1-12R
M 11 B2-12R
N 12 ±0V
P 13 ±0V
R 14 WTR
S 15

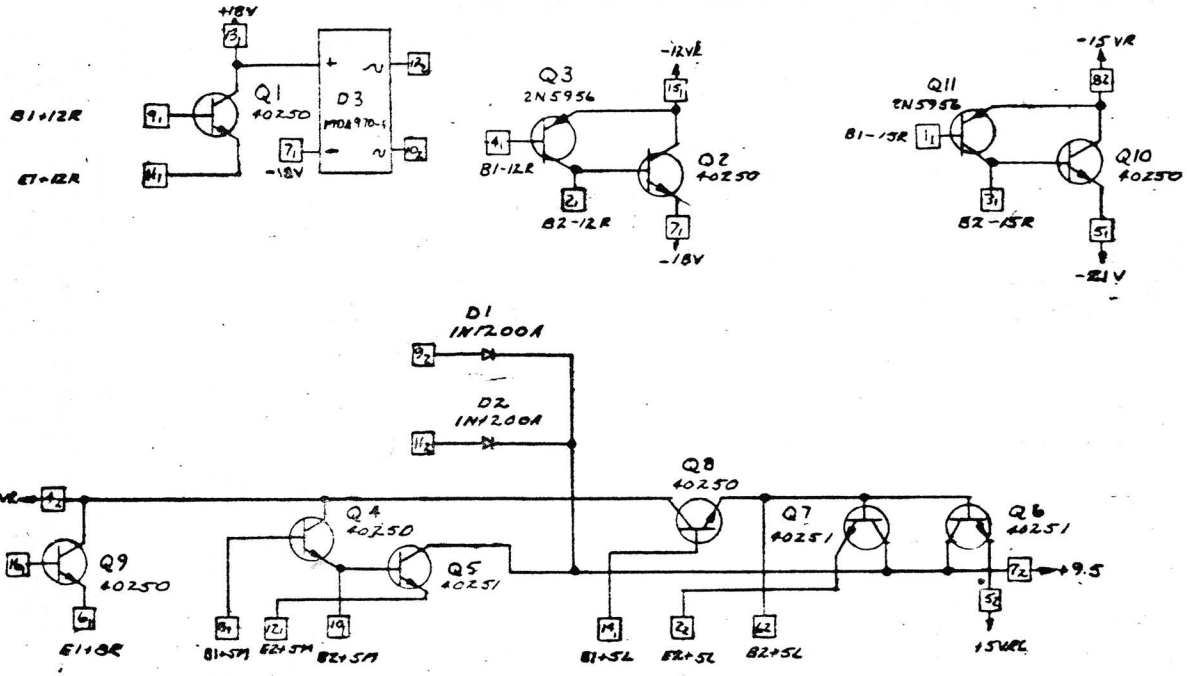
NOTES: FOR PARTS LIST, REFER TO ORIGINAL DRAWINGS.
SEE D6439 FOR L567 BD.
SEE E6768 FOR MOTHER BD.
SEE C6800-998 FOR HEAT SINK

| WANG PART NO. | ITEM | QTY. | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | WANG LABORATORIES, INC. TEWKSBURY, MASS. U.S.A. | | |

| | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| DWN | AR | 6-30-75 | E ENGR | |
| CHK | | | M ENGR | |
| E C CONTROL | | | MFG ENGR | |

MODEL NO 2200S 9 I/O
SEE ENGRG SPECIFICATIONS No.
TITLE SCHEMATIC LOGIBLOC INTERCONNECTION DIAGRAM
TOL EX. AS NOTED .XX ± .010 FRAC. ± 1/64 .XXX ± .005 ANG. ± 1°30' FINISH
SCALE SHT OF
WANG PART NUMBER D 6800-997 SIZE DRAWING NUMBER REV

| REVISION | BY | DATE |
|---|---|---|
| 1 | REV. FOR ECO 5044 APP'D. R. Smith | 8-11-75 |




HOLE LEGEND

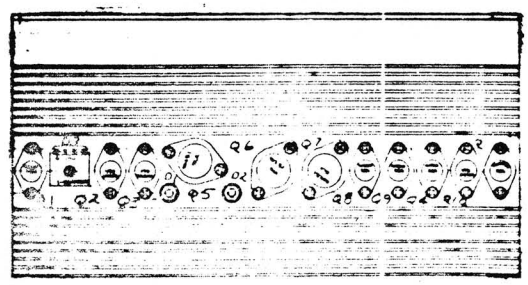
| DRILLED OR PUNCHED HOLE TOLERANCES | HOLE DIA. | TOL. |
|---|---|---|
| | .035 to .125 | ± .003 |
| | .126 to .250 | ± .004 |
| | .251 to .500 | ± .005 |

| IDENT. | DESCRIPTION | QTY |
|---|---|---|
| A | | |

NOTES:

1. SEE DWG D6627-4 FOR MECHANICAL ASSEMBLY
2. SEE PL 6627-4 FOR MECH. AND ELECT. PARTS REQUIRED
3. SEE DWG #6560-(6 I/O) & D6439 FOR POWER SUPPLY REGULATOR.
4. FOR INT. INTERCONNECTION SEE D6627-999

| COMPONENT | WL NO. |
|---|---|
| Q1,2,4,8,9,10 | 375-1022 |
| Q3,11 | 375-1030 |
| Q5,6,7 | 375-1008 |
| | |
| D1,2 | 380-3000 |
| D3 | 380-4003 |



| REVISION | BY | DATE |
|---|---|---|
| 1 REV PER ECN 4882 | AMD | 12/14/77 |
| 2 REV PER ECO #5044 | AMD | 11/8/78 |

| WANG PART NO | ITEM | QTY | NAME |
|---|---|---|---|
| Qty Per Unit / FIRST USED ON / ASSY USED ON | | | |
| REQ / D6627-4 | | | |

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

MATERIAL

FINISH

MODEL NO 2200S 3 OR 6 I/O

SEE ENGRG SPECIFICATIONS No.

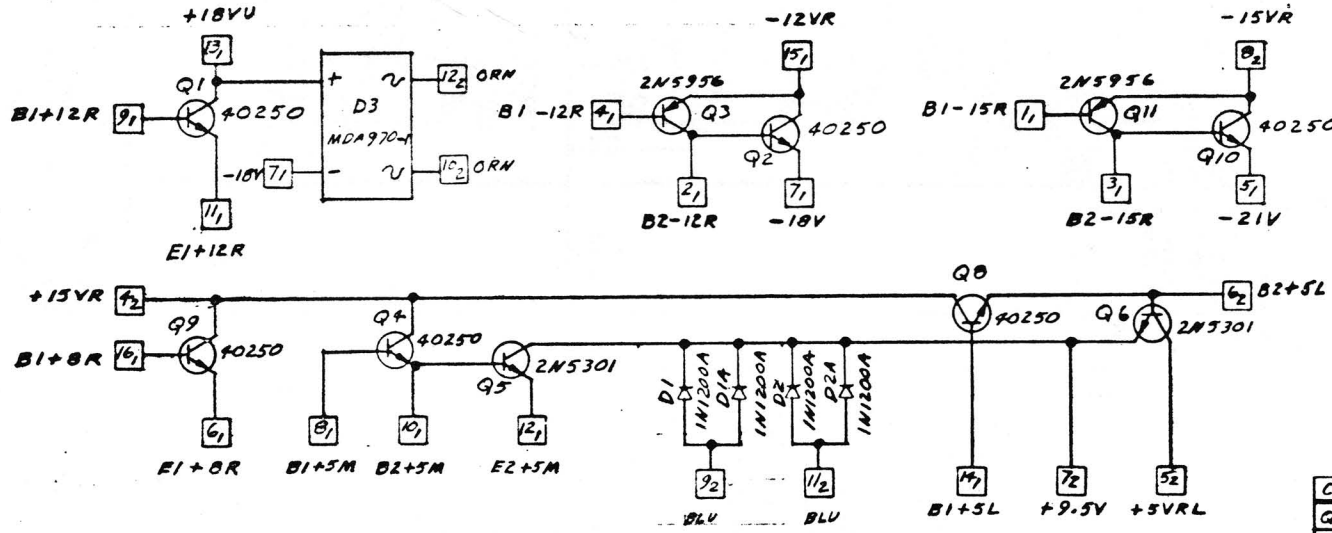
TOL EX AS NOTED
XX ± .010 FRAC ± 1/64
XXX ± .005 ANG ± 1°30' FINISH √

SCALE 2/1 SHT 1 OF 1

| MATERIAL | DESCRIPTION | | | |
|---|---|---|---|---|
| BY | DATE | APPROVED BY | DATE |
| DWN EJJ | 12/14/77 | E ENGR P. RICKER | 2-7-78 |
| CHK | 11/8/78 | M ENGR | |
| E C CONTROL | | MFG ENGR | |

TITLE: POWER TRANSISTOR HEAT SINK ASSEMBLY SCHEMATIC

| WANG PART NUMBER | SIZE | DRAWING NUMBER | REV |
|---|---|---|---|
| 270-0256 | C | 6627-978 | 2 |




HOLE LEGEND

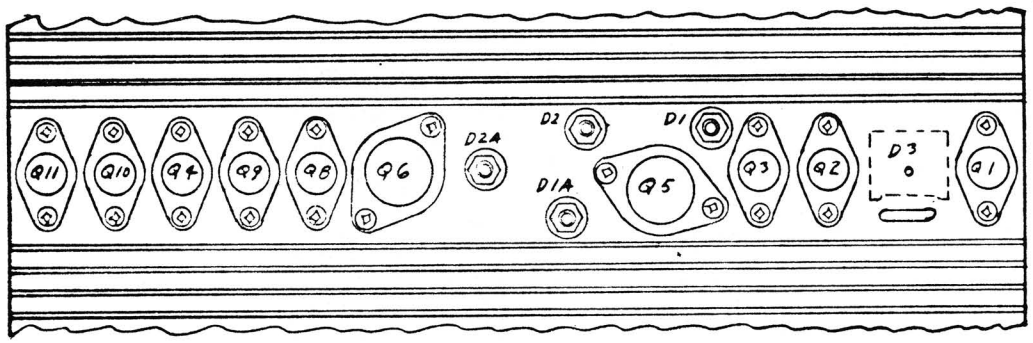
| IDENT. | DESCRIPTION | QTY |
|---|---|---|
| A | | |

DRILLED OR PUNCHED HOLE TOLERANCES: HOLE DIA. 0.135 to 1.25 ± .005; 1.26 to 2.50 ± .010; 2.51 to 3.00 ± .015; TOL. ± .005

NOTE:-

1. SEE DWG. D6800-11 FOR MACHANICAL ASSEMBLY
2. SEE PL6800-11 FOR MECH. AND ELEC. PARTS REQUIRED
3. SEE DWG. E6768 (9 I/O)
4. SEE DWG. D6439 FOR POWER SUPPLY REGULATOR
5. FOR INTERCONNECTION SEE D6800-999

| COMPONENT | W. L. PART NO |
|---|---|
| Q1, 2, 4, 8, 9, 10 | 375-1022 |
| Q3, 11 | 375-1030 |
| Q5, 6 | 375- |
| | |
| D1, 1A, 2, 2A | 380-3000 |
| D3 | 380-4003 |




| REVISION | BY | DATE |
|---|---|---|
| 0 DWN PER DWR 4E031 APP: D.R. Smith | PB | 8/28/75 |

| WANG PART NO | ITEM | QTY | NAME |
|---|---|---|---|
| | | | |

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

MATERIAL

MODEL NO 2200S 9 I/O

SEE ENGRG SPECIFICATIONS No.

FINISH

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

SCALE SHT OF

| MATERIAL | DESCRIPTION | | | |
|---|---|---|---|---|
| BY | DATE | APPROVED BY | DATE |
| DWN PB | 8/28/75 | E ENGR R. Smith | 9-12-75 |
| CHK | | M ENGR | |
| E C CONTROL | | MFG ENGR | |

TITLE SCHEMATIC POWER TRANSISTOR HEAT SINK ASSY

| 270-0276 | C | 6800-998 | D |
|---|---|---|---|
| WANG PART NUMBER | SIZE | DRAWING NUMBER | REV |

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DO NOT SCALE

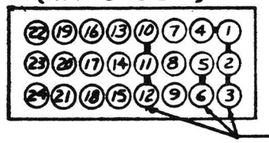
NOTES:

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

| HOLE LEGEND | | |
|---|---|---|
| DRILLED OR PUNCHED HOLE TOLERANCES: | HOLE DIA. | TOL. |
| | .0135 to .125 | ± .005 / .001 |
| | .126 to .250 | ± .006 / .001 |
| | .251 to .500 | ± .008 / .001 |

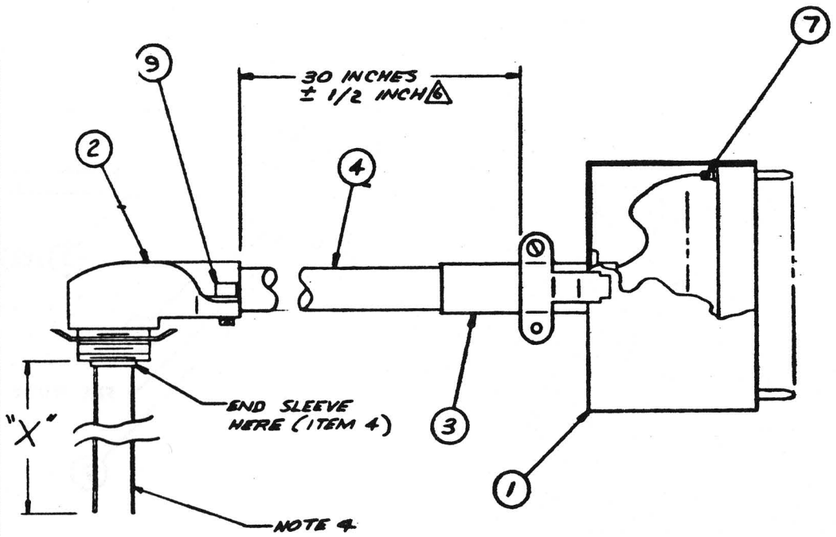
| IDENT. | DESCRIPTION | QTY. |
|---|---|---|
| A | | |

CONNECTOR (WIRING SIDE)




| CONN. PIN NO. | GAUGE | COLOR | LENGTH DIM. "X" | P.C. 6322 PIN NO. | SIGNAL NAME | WANG LABS PART NO. |
|---|---|---|---|---|---|---|
| 1 | 16 | RED | 11 1/2" | 1 | +5VRL | 600-7002 |
| 2 | 16 | RED | 12" | 2 | +5VRL | 600-7002 |
| 3 | 16 | RED | 12 1/4" | 3 | +5VRL | 600-7002 |
| 4 | | | | 4 | | |
| 5 | | | | 5 | | |
| 6 | 16 | ORN | 8" | 6 | +5VRM | 600-7003 |
| 7 | 18 | WHT/YEL | 13" | 7 | +8.5VU | 600-0094 |
| 8 | 18 | WHT/VIO | 13 3/4" | 8 | -17 VU | 600-0097 |
| 9 | 18 | WHT/BRN | 13 3/4" | 9 | +17.5VU | 600-0091 |
| 10 | 16 | BLK | 8 1/2" | 10 | ±0V | 600-7000 |
| 11 | 16 | BLK | 9 1/2" | 12 | ±0V | 600-7000 |
| 12 | 16 | BLK | 10 1/4" | 18 | ±0V | 600-7000 |
| * 13 | 18 | WHT/BLK | 15 1/2" | 13 | 115VAC | 600-0090 |
| 14 | 18 | GRN/YEL | 23" | 15 | CHA. GND | 600-0054 |
| * 15 | 18 | WHT | 16 3/4" | 14 | AC NEUT. | 600-0009 |
| 16 | 24 | WHT/GRN | 18 3/4" | 9, (6311) | PNC | 600-2095 |
| 17 | 24 | WHT/YEL | 18 3/4" | 10, (6311) | PNO | 600-2094 |
| 18 | — | — | — | — | — | — |
| 19 | 24 | WHT/ORN | 18 3/4" | 14, (6311) | WTR | 600-2093 |
| 20 | — | — | — | — | — | — |
| 21 | 18 | BLU | 7" | 21 | +12VR | 600-0006 |
| 22 | 18 | BRN | 7" | 22 | +8VR | 600-0001 |
| 23 | 18 | WHT/BLU | 7" | 23 | -12VR | 600-0096 |
| 24 | 18 | GRY | 7 1/2" | 24 | -15VR | 600-0008 |

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




| WANG PART NO | ITEM | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| 420-1005 | 14 | 1 | FAN CORD | | 14 INCHES LONG |
| 659-0050 | 13 | 2 | RING TONGUE TERM | | #6 RED BURNDY |
| 600-9018 | 12 | .75' | BUSS WIRE | | #18 GA TINNED |
| 605-1004 | 11 | 9 | CABLE TIE | | TY-RAP |
| 605-0012 | 10 | 2.5' | TUBING #4 | | |
| 650-4125 | 9 | 2 | SCR, SOC-CAP #8-32 x 3/8 | | BLACK OXIDE FINISH |
| | 8 | | | | |
| 660-0200 | 7 | A/R | SOLDER | | 60-40 ALLOY |
| | 6 | | | | |
| | 5 | | | | |
| 6 605-0104 | 4 | 2.875 | SLEEVE (1/2" TUBING) | | BLACK (34 1/2 INCHES) |
| 350-4105 | 3 | 1 | #5 BUSHING (CANNON) | | 18220-10 |
| 654-1237 | 2 | 1 | 90° CONNECTOR (STRAIN RELIEF) | | |
| 350-2055 | 1 | 1 | CONNECTOR (CINCH-JONES) | | P-324-CCT |

| Qty. Per Unit | FIRST USED ON | ASSY USED ON |
|---|---|---|
| 1 | | |

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

MATERIAL

FINISH

MODEL NO 2200

SEE ENGRG SPECIFICATIONS No ES-1001

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

SCALE NONE SHT 1 OF 2

| BY | DATE | APPROVED BY | DATE |
|---|---|---|---|
| DWN F.E. SOUSA | 29 MAR 73 | E ENGR | 4/17/73 |
| CHK | | M ENGR | |
| E C CONTROL | | MFG ENGR | 10/17/74 |

TITLE: CPU POWER CABLE

| WANG PART NUMBER | SIZE | DRAWING NUMBER | REV |
|---|---|---|---|
| 220-0100 | C | 6422-125 | 6 |

521-2269 D

| NO. | REVISION | BY | DATE |
|---|---|---|---|
| 0 | ORIGINAL | GS | 9-26-73 |
| 1 | REVISED PER RFA #0364 APP'D BOH | CCC | 10-17-73 |
| 2 | REV. PER ERA 0392 LET 9-18-73 | CCC | 11-29-73 |
| 3 | REV PER ECN #3967 APP'D D.L. 1-3-74 | CCC | 2-13-74 |
| 4 | REV. PER RFA 0713 JRB 2-13-74 | | |
| 5 | REVISED PER RFA-NO 0873 JRB 4-18-74 | | 9-22-74 |
| 6 | REV. PER ECN# 4165 5/14/74 | | 7-1-74 |

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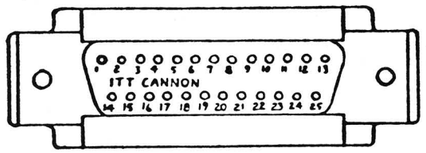
DO NOT SCALE

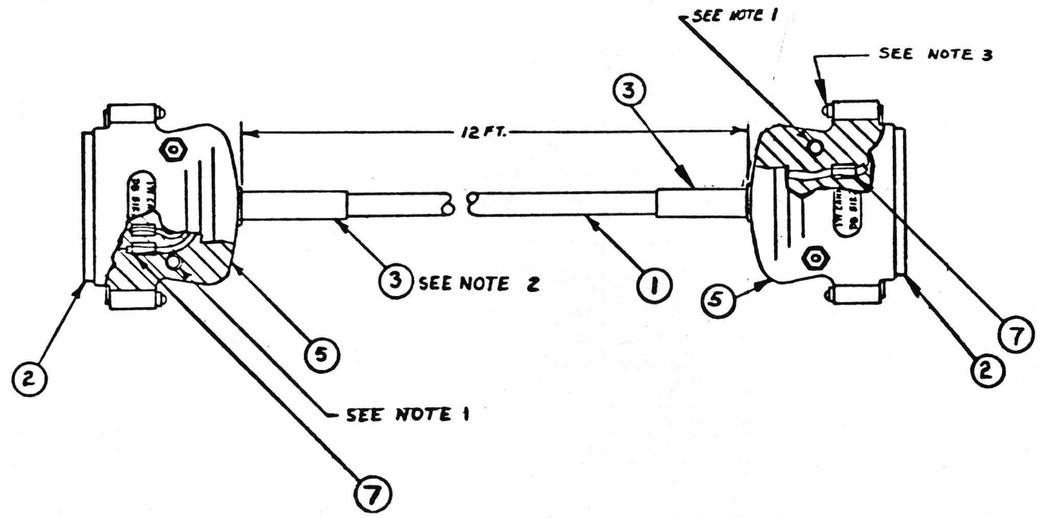
NOTES:
1. STRIP OUTER INSULATION 1¼" STRIP .2 IN ALL WIRES 3/16"
2. ASSEMBLE ITEM 3 TO ITEM 1 BEFORE WIRING
3. HARDWARE SUPPLIED WITH ITEM 5.

HOLE LEGEND

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

| IDENT. | DESCRIPTION | QTY. |
|---|---|---|
| A | | |




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

| WANG PART NO | ITEM | QTY | NAME | MATERIAL | DESCRIPTION |
|---|---|---|---|---|---|
| 605-0002 | 7 | AR | SLEEVE | | #15 3/8" |
| 660-0202 | 6 | AR | SOLDER | | 63/37 ALLOY |
| 350-4215 | 5 | 2 | CONN. SHELL | | CANNON # DB 51226-1 |
| | | | | | |
| 350-4103 | 3 | 2 | BUSHING #3 | | CANNON # 18220-6 |
| 350-1030 | 2 | 2 | CONN. 25 PIN | | ITT CANNON DB 25P |
| 420-0001 | 1 | AR | CABLE | | 15 CONDUCTOR AWG 26 |

| Qty Per Unit | FIRST USED ON | ASSY USED ON |
|---|---|---|
| 1 | 2227 | |

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

MATERIAL SEE LIST

FINISH

MODEL NO 2200 T.C.

SEE ENGRG SPECIFICATIONS No ES-1001

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

SCALE N.T.S. SHT 1 OF 1

| | BY | DATE | APPROVED BY | DATE |
|---|---|---|---|---|
| DWN | EK | 12-10-73 | E ENGR | 12-11-73 |
| CHK | | | M ENGR | |
| E. C. CONTROL | | | MFG ENGR | |

TITLE MODEM CABLE FOR BELL 100 & 200 SERIES MODEMS OR EQUIVALENT

| WANG PART NUMBER | SIZE | DRAWING NUMBER | REV |
|---|---|---|---|
| 220-0113 | C | 6482-5 | 2 |

| NO. | REVISION | BY | DATE |
|---|---|---|---|
| 1 | REV. PER MO72 JRB 2-13-74 CPP 4-22-74 | CPP | 4-22-74 |
| 2 | REVISED PER RFA. NO 0876 JRB 4.17.79 | JRB | 4.17.79 |

NOTES:

VOLTAGE MEASUREMENTS
1. TAKEN FROM POINT INDICATED TO CHASSIS WITH A VTVM, NO SIGNAL.
2. TAKEN WITH CONTRAST & BRIGHTNESS CONTROLS AT MAXIMUM. ALL OTHER CONTROLS IN NORMAL OPERATING POSITION.

WAVEFORM MEASUREMENTS:
1. TAKEN FROM POINT INDICATED TO CHASSIS WITH A WIDE-BAND OSCILLOSCOPE.
2. OSCILLOSCOPE SYNCED NEAR SWEEP RATE INDICATED.
3. TAKEN WITH .5V PP INPUT SIGNAL, CONTRAST & BRIGHTNESS CONTROLS AT MAXIMUM. ALL OTHER CONTROLS IN NORMAL OPERATING POSITION.

———— INDICATES PRINTED CIRCUIT BOARD.

UNLESS OTHERWISE SPECIFIED: CAPACITORS DECIMAL VALUES IN MF, ALL OTHERS PF. CAPACITANCE VALUES ONLY ARE SHOWN ON SCHEMATIC DIAGRAM. FOR COMPLETE DESCRIPTION OF CAPACITORS, REFER TO PARTS LIST.

RESISTORS ARE 10% 1/2W

P1 (PIN VIEW)

Q9, Q13 Q16 (BOT VIEW)

ALL OTHERS (BOT VIEW)

D7 (BOT VIEW)

DIAG 63D65165A19-B