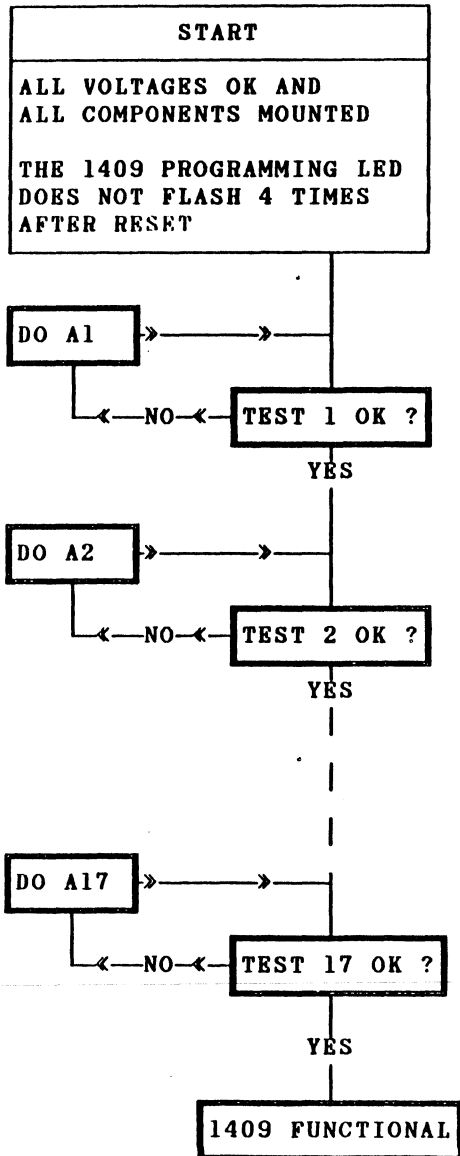


DIAGNOSTICS



| TEST | TEST TYPE | TEST POINT | VALUE | ACTION | CHECK |
|------|-------------|-------------|----------------------------------|--------|------------------|
| T1 | measure | 8085 pin 1 | 6 Mhz sine wave | A1 | X1, 8085 |
| T2 | measure | 8085 pin 36 | low if SW1 on high if SW1 off | A2 | 8085 |
| T3 | measure | 8085 pin 3 | low if SW1 off high if SW1 on | A3 | 8085 |
| T4 | measure | 8085 pin 37 | 3 Mhz sine wave | A4 | 8085 |
| T5 | measure | 8085 pin 30 | 750Khz pulses | A5 | 8085 |
| T6 | measure | 8155 pin 6 | 150 Khz sq wave | A6 | 1A, 3C, 4C, 8155 |
| T7 | measure | 8251 pin 23 | high on reset low after reset | A7 | 8251 |
| T8 | measure | 8251 pin 24 | high on reset low after reset | A8 | 8251 |
| T9 | measure | 1488 pin 6 | -5V on reset +5V after reset | A9 | 1488 |
| T10 | measure | 1488 pin 11 | -5V on reset +5V after reset | A10 | 1488 |
| T11 | measure | 8251 pin 17 | low after reset | A11 | RS-232, 1488 |
| T12 | type spaces | RXD led | low fq flicker | A12 | RS-232, 1489 |
| T13 | type spaces | 1488 pin 1 | low fq sq wave | A13 | RS-232 link |
| T14 | type spaces | 8251 pin 3 | low fq sq wave | A14 | 1489 |
| T15 | type spaces | 8251 pin 19 | low fq sq wave | A15 | 8251 |
| T16 | type spaces | 1488 pin 3 | random pulses | A16 | RS-232, 1488 |
| T17 | type spaces | TXD led | short pulse burst | A17 | RS-232, 1489 |

IF THE 1409 RESPONDS WHEN YOU TYPE SPACES BUT DOES NOT READ OR PROGRAM EPROMS, TYPE IN CONSECUTIVE ORDER THE COMMANDS LISTED IN THE TABLE ON THE FOLLOWING PAGE AND CHECK FOR THE APPROPRIATE VOLTAGES. IF A TEST DOES NOT LEAD TO THE INDICATED RESULT, CHECK THE DIODES, TRANSISTORS, RESISTORS, AND BUFFERS (7407) ASSOCIATED WITH THE PIN.

THE FOLLOWING DEBUGGING COMMANDS CAN BE PERFORMED FROM THE MONITOR. TYPE "!".

MONITOR COMMANDS TABLE

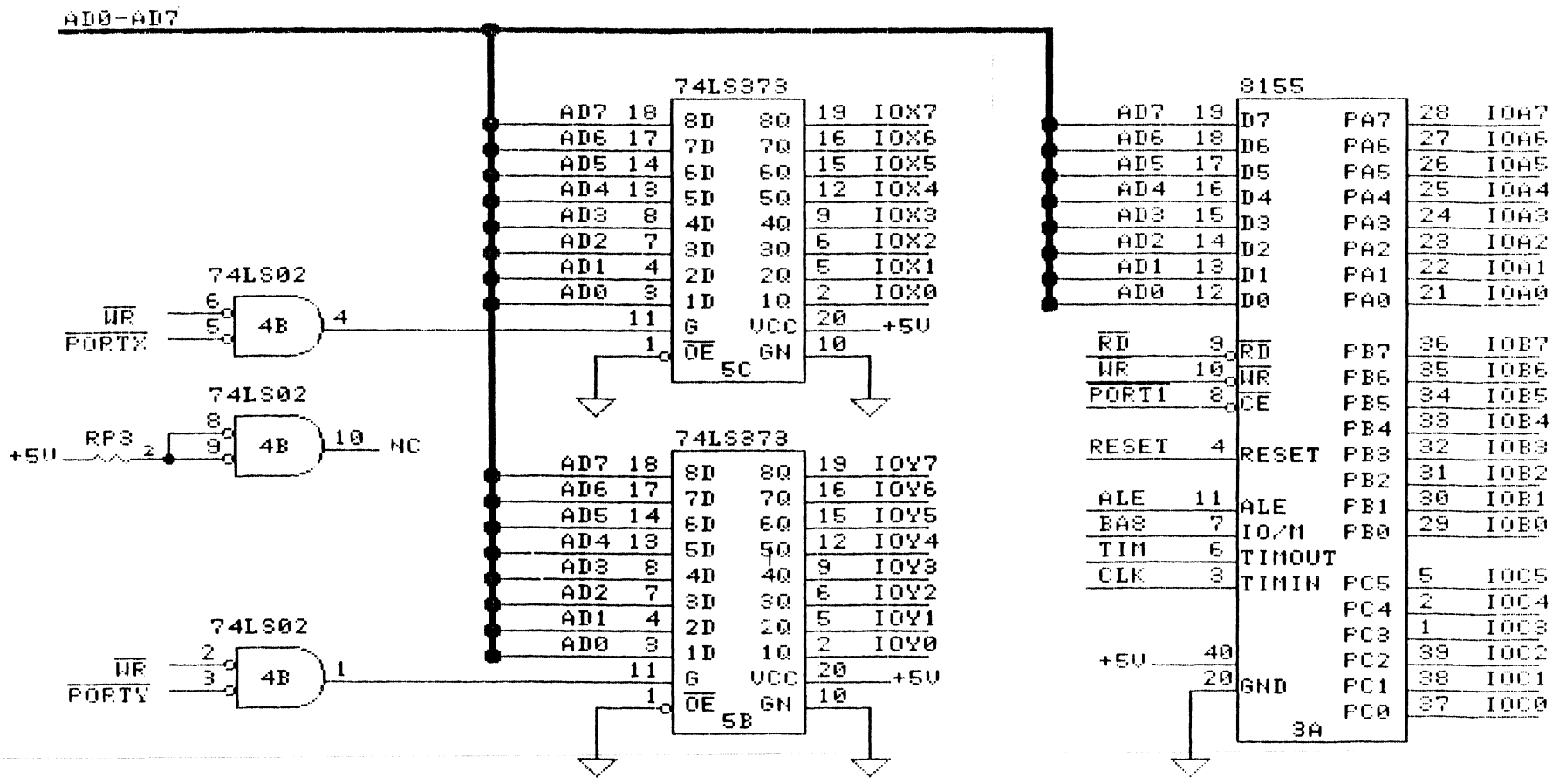
| wd100 OF SETS ALL I/O PORTS TO OUTPUT | | | | | | | | | V ON PL4A & PU4B PIN | | | ON PL6A & PU6B PIN | | | | | |
|---------------------------------------|----|----|----|----|----|----|----|-----|------------------------------|-----|-----|--------------------|----|----|-----|-----|-----|
| VOLTAGE ON PL4A AND PU4B PIN | | | | | | | | | COMMAND | 1 | 22 | 23 | 1 | 4 | 7 | 25 | 26 |
| COMMAND | 2 | 20 | 21 | 24 | 25 | 26 | 27 | 28 | we000 00 | L | L | L | - | - | - | - | - |
| wc000 00 | L | L | L | L | L | L | L | 5.7 | 01 | 5v | L | L | - | - | - | - | - |
| 01 | H | L | L | L | L | L | L | 5.7 | 02 | 21v | L | L | - | - | - | - | - |
| 02 | L | H | L | L | L | L | L | 5.7 | 04 | 25v | L | L | - | - | - | - | - |
| 04 | L | L | H | L | L | L | L | 5.7 | 08 | L | 5v | L | - | - | - | - | - |
| 08 | L | L | L | H | L | L | L | 5.7 | 10 | L | 21v | L | - | - | - | - | - |
| 10 | L | L | L | L | H | L | L | 5.7 | 20 | L | 25v | L | - | - | - | - | - |
| 20 | L | L | L | L | L | H | L | 5.7 | 40 | L | L | 5v | - | - | - | 5v | - |
| 40 | L | L | L | L | L | L | H | 5.7 | 80 | L | L | 25v | - | - | - | - | - |
| 00\$ | L | L | L | L | L | L | L | 5.7 | 00 | L | L | L | - | - | - | - | - |
| wd100 0F\$ | L | L | L | L | L | L | L | 5.7 | wc000 80 | L | 13v | L | - | - | - | - | - |
| wd103 04\$ | L | L | L | L | L | L | L | 6.2 | wc000 00\$ | L | L | L | - | - | - | - | - |
| wd103 00\$ | L | L | L | L | L | L | L | 5.7 | wd100 0F\$ | L | L | L | - | - | - | - | - |
| COMMAND | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | wd103 20\$ | 13v | L | L | - | - | - | - | - |
| wd102 00\$ | L | L | L | L | L | L | L | L | wd103 00\$ | - | - | - | L | L | 5v | L | 5v |
| wd102 01\$ | H | L | L | L | L | L | L | L | wd103 01\$ | - | - | - | 5v | L | 5v | L | 5v |
| wd102 02\$ | L | H | L | L | L | L | L | L | wd103 02\$ | - | - | - | L | 5v | 5v | L | 5v |
| wd102 04\$ | L | L | H | L | L | L | L | L | wd103 04\$ | - | - | - | L | L | 18v | L | 5v |
| wd102 08\$ | L | L | L | H | L | L | L | L | wd103 08\$ | - | - | - | L | L | 5v | 18v | 5v |
| wd102 10\$ | L | L | L | L | H | L | L | L | wd103 10\$ | - | - | - | L | L | 5v | L | 21v |
| wd102 20\$ | L | L | L | L | L | H | L | L | VOLTAGE ON PL4A AND PU4B PIN | | | | | | | | |
| wd102 40\$ | L | L | L | L | L | L | H | L | COMMAND | 11 | 12 | 13 | 15 | 16 | 17 | 18 | 19 |
| wd102 80\$ | L | L | L | L | L | L | L | H | wd101 08\$ | L | L | L | H | L | L | L | L |
| COMMAND | 11 | 12 | 13 | 15 | 16 | 17 | 18 | 19 | wd101 10\$ | L | L | L | L | H | L | L | L |
| wd101 00\$ | L | L | L | L | L | L | L | L | wd101 20\$ | L | L | L | L | L | H | L | L |
| wd101 01\$ | H | L | L | L | L | L | L | L | wd101 40\$ | L | L | L | L | L | L | H | L |
| wd101 02\$ | L | H | L | L | L | L | L | L | wd101 80\$ | L | L | L | L | L | L | L | H |
| wd101 04\$ | L | L | H | L | L | L | L | L | wd101 00\$ | L | L | L | L | L | L | L | L |

NOTE: L = TTL Low level. H = TTL High level.

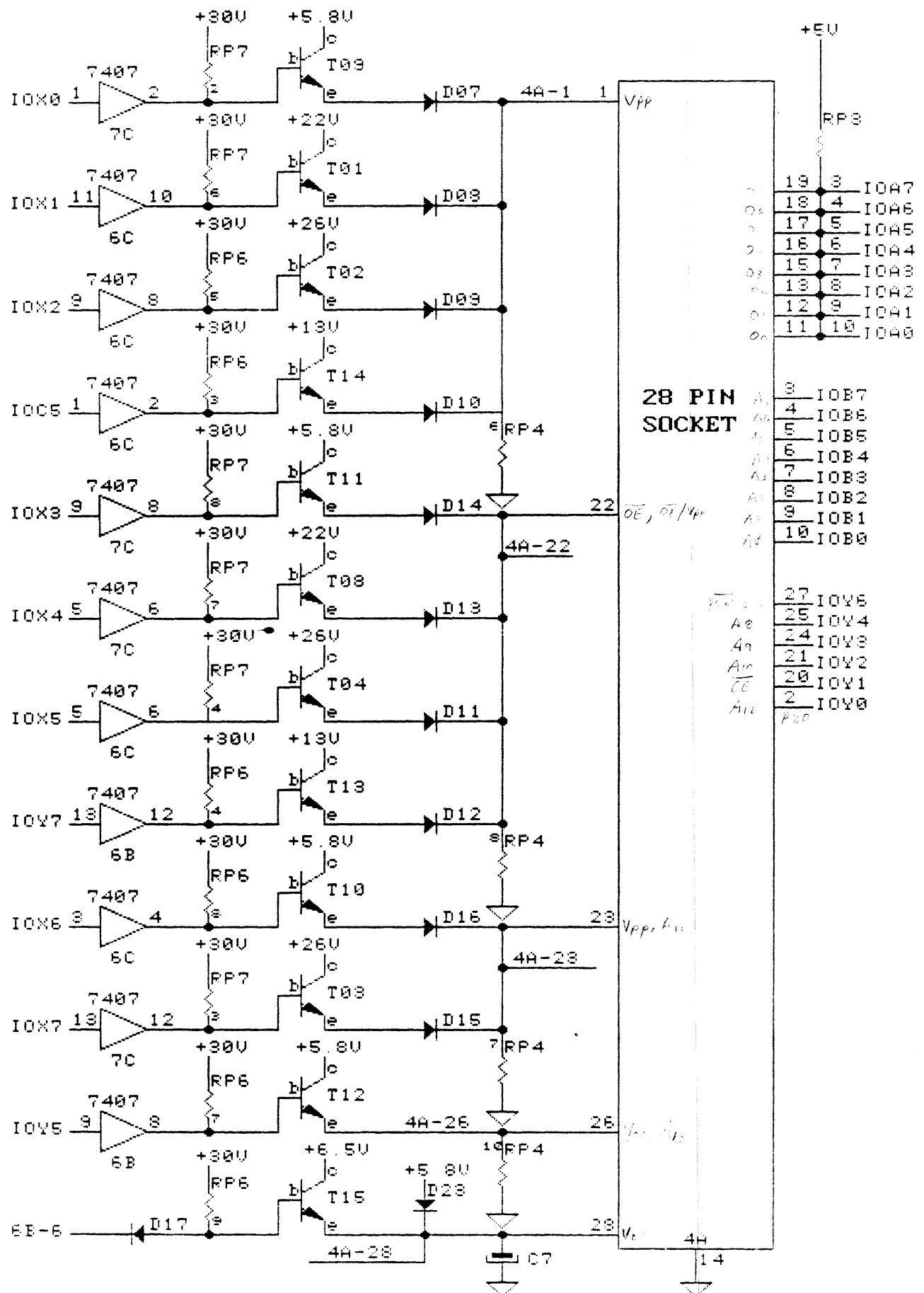
1409-8.4 PARTS LIST

| TYPE | DESCRIPTION | PL | LOCATION | PU | PL QTY | PU | PL NOTES | PU |
|------------|-----------------------|-------------------------|-----------------------|----|--------|----|----------|----|
| 8085 | MICROPROCESSOR | 2A | | | 1 | | | |
| 8155 | RAM-I/O-TIMER | 3A | | | 1 | | | |
| 8251A | UART | 2C | | | 1 | | | |
| 27128 | EPROM, 1409 FIRMWARE | 3C | | | 1 | | | |
| 7400 | QUAD 2-INPUT NAND | | (PU)5C | | | 1 | | 1 |
| 7404 | HEX INVERTER | | (PU)8C 9C 10A 10B 10C | | | 5 | | 1 |
| 74LS02 | QUAD 2 INPUT NOR | 4B | | | 1 | | | |
| 7407 | HEX OPEN COLL DRIVER | 6B 6C 7C | (PU)1C | | 3 | 1 | | 1 |
| 74LS138 | 3 TO 8 MULTIPLEXER | 1A | | | 1 | | | |
| 74LS240 | OCTAL BUFFER | | (PU)2C | | | 1 | | 1 |
| 74LS245 | OCTAL TRANSIEVER | | (PU)4C | | | 1 | | 1 |
| 74LS373 | OCTAL LATCH | 4C 5B 5C | (PU)3C | | 3 | 1 | | 1 |
| 1488 | RS232 DRIVER | 1C | | | 1 | | | |
| 1489 | RS232 RECEIVER | 1B | | | 1 | | | |
| - | RED LED DIODES | LED1-4 | (PU)LED1-8 | | 4 | 8 | 2 | 1 |
| 1N4743 | 1W/13V ZENER | D19 | | | 1 | | | |
| 1N5231B | ½W/5.2V ZENER | D20 | | | 1 | | | |
| 1N5226B | ½W/3.3V ZENER | D21 | | | 1 | | | |
| 1N5228B | ½W/3.9V ZENER | D22 | | | 1 | | | |
| 1N4148 | 100MA/50V DIODE | D1-18, 24-27, 29, 37-38 | | | 26 | | | |
| 1N4001 | 1A/50V RECTIFIER | D23, D30-D35 | | | 7 | | | |
| 2N2222 | TRANSISTOR | T1-T15 | (PU)T1 T2 | | 15 | 2 | | |
| 7805 | 5V/1.5A LM340T | T16 | | | 1 | | | |
| 6.144 MHz | QUARTZ CRYSTAL | X1 | | | 1 | | | |
| 1-6 MHz | QUARTZ CRYSTAL | X2 | (OMIT WITH PU BD.) | | 1 | | 2 | |
| 10 Ω 2W | RESISTOR | R3 | | | 1 | | | |
| 90 Ω ½W | RESISTOR | R1 | | | 1 | | | |
| 15 Ω ½W | RESISTOR | R2 & R4 | | | 2 | | | |
| 10K Ω ½W | RESISTOR | | (PU)R1 R2 | | | 2 | | 1 |
| 470 Ω | 6 PIN SIP RESISTOR | RP1 | (PU)RP2 & RP4 | | 1 | 2 | 2 | 1 |
| 3.3K Ω | 6 PIN SIP RESISTOR | | (PU)RP3 | | | 1 | | |
| 10K Ω | 6 PIN SIP RESISTOR | RP2 | (PU)RP5 | | 1 | 1 | | 1 |
| 10K Ω | 8 PIN SIP RESISTOR | RP5 & RP7 | | | 2 | | | |
| 10K Ω | 10 PIN SIP RESISTOR | RP3 RP4 RP6 | (PU)RP1 | | 3 | 1 | | 1 |
| 0.1µF/50V | CAPACITOR | 13 PLACES | (PU)4 PLACES | | 13 | 4 | | 1 |
| 3300µF/10V | CAPACITOR | C11 | | | 1 | | | |
| 220µF/35V | CAPACITOR | C12-C13 | | | 2 | | | |
| 470µF/10V | CAPACITOR | C14-C16 | | | 3 | | | |
| 100µF/6V | CAPACITOR | C6-C7 | (PU)C1-C3 | | 2 | 3 | | 3 |
| 10µF/25V | CAPACITOR | C4-C5, C10, C17-C18 | | | 5 | | | |
| 20pF/50V | CAPACITOR | C1 C2 | | | 2 | | | |
| 20pF/50V | CAPACITOR | C9 | | | 1 | | 2 | |
| 5pF/50V | CAPACITOR | C8 | | | 1 | | 2 | |
| DB25M | RS232 PC MOUNT MALE | CONN1 | | | 1 | | | |
| 3 PIN | 3 PIN MALE MOLEX | CONN6 | | | 1 | | | |
| 3 PIN | 3 PIN MALE MOLEX | CONN5 | (FOR ERASER OPT) | | 1 | | | |
| 2 PIN | 2 PIN MALE HEADER | CONN4 | (FOR ERASER OPT) | | 1 | | | |
| 34 PIN | 34 PIN FEMALE HEADER | CONN2-CONN3 | | | 2 | | | 1 |
| 34 PIN | 34 PIN MALE HEADER | | (PU)CONN2-CONN3 | | | 2 | | 1 |
| 28 PIN | AMP ZIF #54994-5 | 4A | (PU)2B 4B | | 1 | 2 | 2 | 1 |
| 40 PIN | AMP ZIF #54995-5 | 6A | (PU)6B 8B 9B | | 1 | 3 | 2 | 1 |
| 28 IC SOC | WELCON #7281642 | 2C 3C 4A | (PU)2B 4B | | 3 | 2 | | 1 |
| 40 IC SOC | WELCON #7401642 | 2A 3A 6A | (PU)6B 8B 9B | | 3 | 3 | | 1 |
| 320M E1-1 | R/S SWITCH (ECG) | SW1 | (PU)SW2 & SW3 | | 1 | | 2 | |
| 4PST | 4 POS. DIP SWITCH | SW2 (7A) | | | 1 | | | |
| 8PST | 8 POS. DIP SWITCH | | (PU)SW1 | | | 1 | | 1 |
| TAT 616 | 110/220VAC XFORMER | TRANSFORMER | | | 1 | | | |
| HEAT SINK | FOR 7805 | (NOT IN CASE OPTION) | | | 1 | | | |
| PL8.1 | PRINTED CIRCUIT BOARD | - | | | 1 | | | |
| PU7.0 | PRINTED CIRCUIT BOARD | - | | | 1 | | | |
| DOC | INSTRUCTION MANUAL | - | | | 1 | | | |

- NOTE 1. Parts are required for PU option only.
 NOTE 2. Parts are omitted with PU option.
 NOTE 3. Mount on solder side of PU board, 5.0V, 5.7V, & 6.25V to GROUND.
 NOTE 4. Zener diodes D28 & D36 are not required.

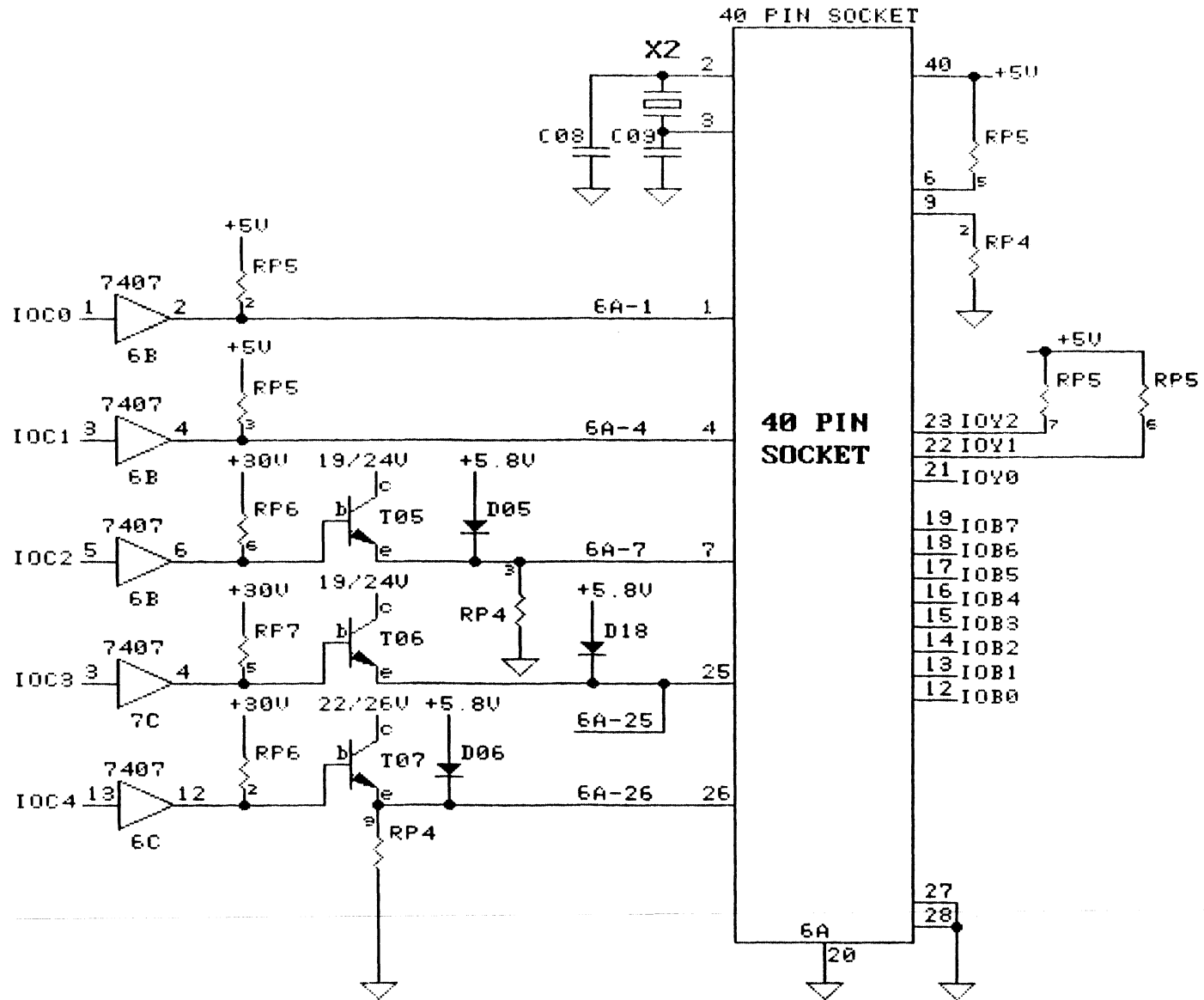


| | | | | | |
|---|--------------|-------|---------|-----------|-------|
| R&C Microsystems 6322 NOJAVE DR. SAN JOSE CA. 95120 | TITLE | MODEL | VERSION | DATE | FILE |
| | OUTPUT LINES | 1409 | 8.4 | JAN 05 87 | PAG02 |



B&C Microsystems
 5322 MOJAVE DRIVE
 SAN JOSE, CALIFORNIA 95120

| TITLE | MODEL | VER | DATE | FILE |
|---------------|-------|-----|------------|-------|
| 28 PIN SOCKET | 1409 | 8.4 | JAN 05, 87 | FAG03 |



B&C Microsystems

6822 MOJAVE DR SAN JOSE CA. 95120

TITLE
40 PIN SOCKET

MODEL
1409

VERSION
8.4

DATE
JAN 05 87

FILE
PAG04

FIRMWARE EPROM SELECTION

| | | | |
|-----------|-----|-----|--|
| EPROM | J2 | J3 | |
| 27256 (*) | ON | OFF | |
| 27128 (*) | OFF | ON | |

7A SWITCH SETTING

| | | | | |
|------------------|-----|-----|-----|-----|
| MENU | SW1 | SW2 | SW3 | SW4 |
| 8741, 8748 | OFF | ON | OFF | ON |
| 8748H, 8749H (*) | ON | OFF | ON | OFF |

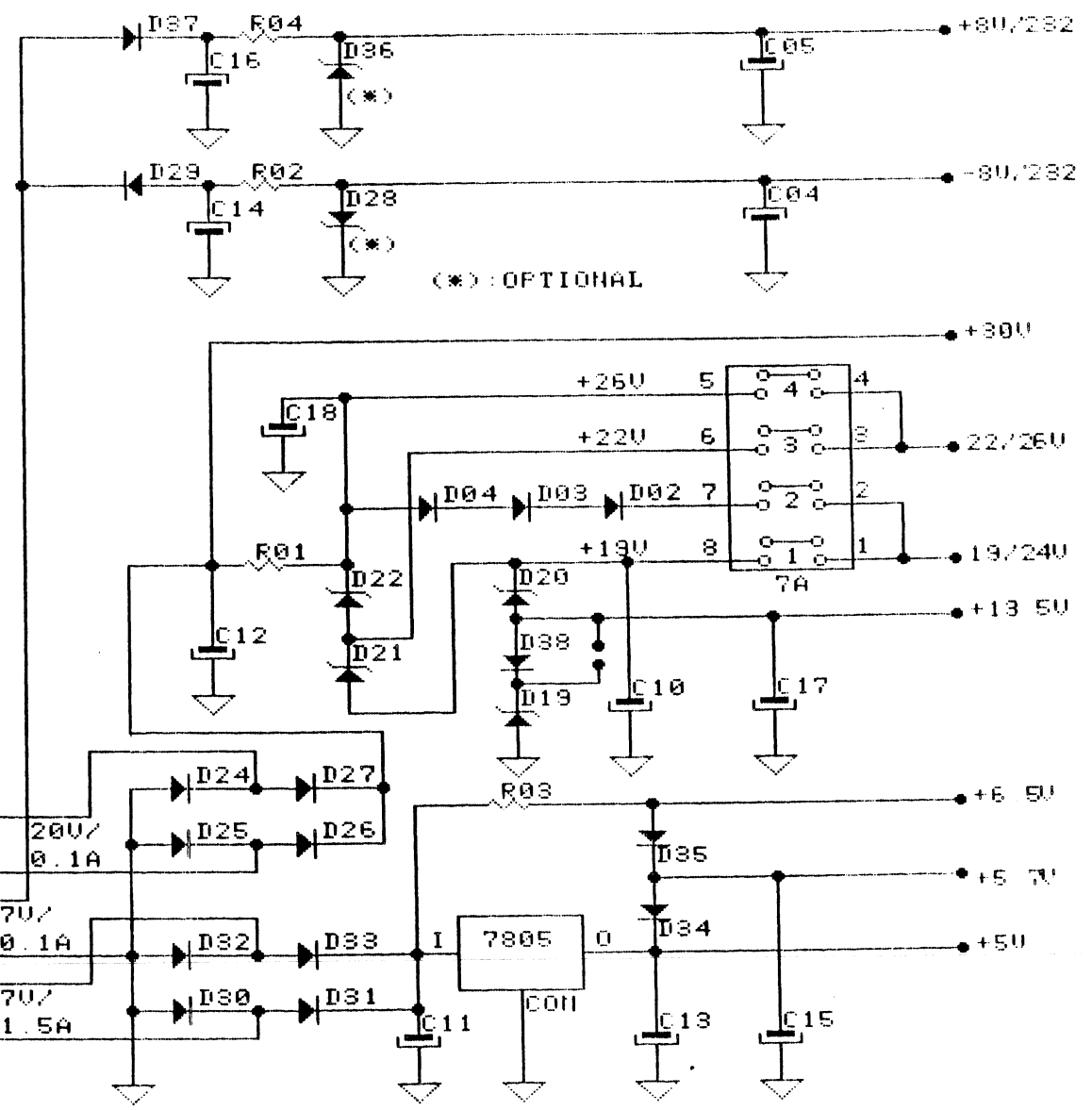
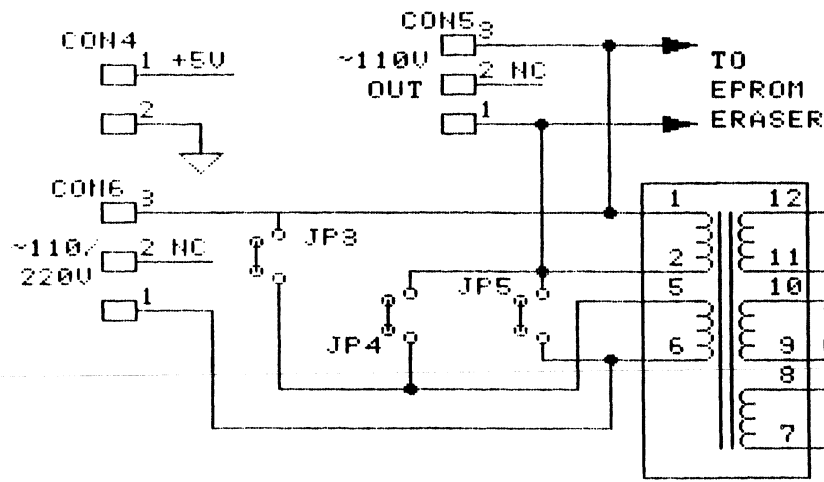
LINE JUMPER SETTING

| | | | |
|------------|-----|-----|-----|
| LINE INPUT | JP3 | JP4 | JP5 |
| 120V (*) | ON | OFF | ON |
| 220V | OFF | ON | OFF |

RTS/CTS JUMPER SETTING

| | |
|-----------------------|-----|
| DCE DEVICE | JP1 |
| RTS/CTS SUPPORTED (*) | OFF |
| RTS/CTS NOT SUPPORTED | ON |

(*): FACTORY SETTING



(*): OPTIONAL

TOP VIEW

CON3 (**)

| | | | | | | | | | | | | | | | | |
|----|-------|------|------|------|------|------|------|-------|-------|------|------|------|------|------|------|------|
| 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| | * | | | | | | | | | | | | | | | |
| | 6A-25 | 6A-7 | 6A-1 | IOB7 | IOB5 | IOB3 | IOB1 | 4A-22 | 4A-26 | IOY6 | IOY3 | IOY1 | IOA7 | IOA5 | IOA3 | IOA1 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |
| | 6A-26 | 6A-4 | | IOB6 | IOB4 | IOB2 | IOB0 | 4A-23 | 4A-1 | IOY4 | IOY2 | IOY0 | IOA6 | IOA4 | IOA2 | IOA0 |

CON2 (**)

| | | | | | | | | | | | | | | | | |
|-------|------|-----|-----|-----|-----|-----------------|-----|-----|------|-----|-------|------|-------|-------|-----|-----|
| 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| 4A-28 | IOY7 | AD7 | AD5 | AD3 | AD1 | \overline{RD} | ALE | | +30V | SID | PORT2 | TXD1 | PGM | +5.8V | +5V | GND |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |
| 4A-28 | IOY5 | AD6 | AD4 | AD2 | AD0 | \overline{WR} | | CLK | | | PORT3 | RXD1 | RSTIN | +5.8V | +5V | GND |

CON1

| | | | | | | | | | | | | |
|---|------------------|------------------|-----|-----|----|-----|-----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| | \overline{TXD} | \overline{RXD} | RTS | CTS | | GND | | | | | | |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| | | | | | | | DTR | | | | | |

TO EPROM ERASER

CON4

| | |
|-----|-----|
| 1 | 2 |
| +5V | GND |

TO EPROM ERASER

CON5

| | | |
|------|---|------|
| 1 | 2 | 3 |
| T1-1 | | T1-2 |

TO AC LINE

CON6

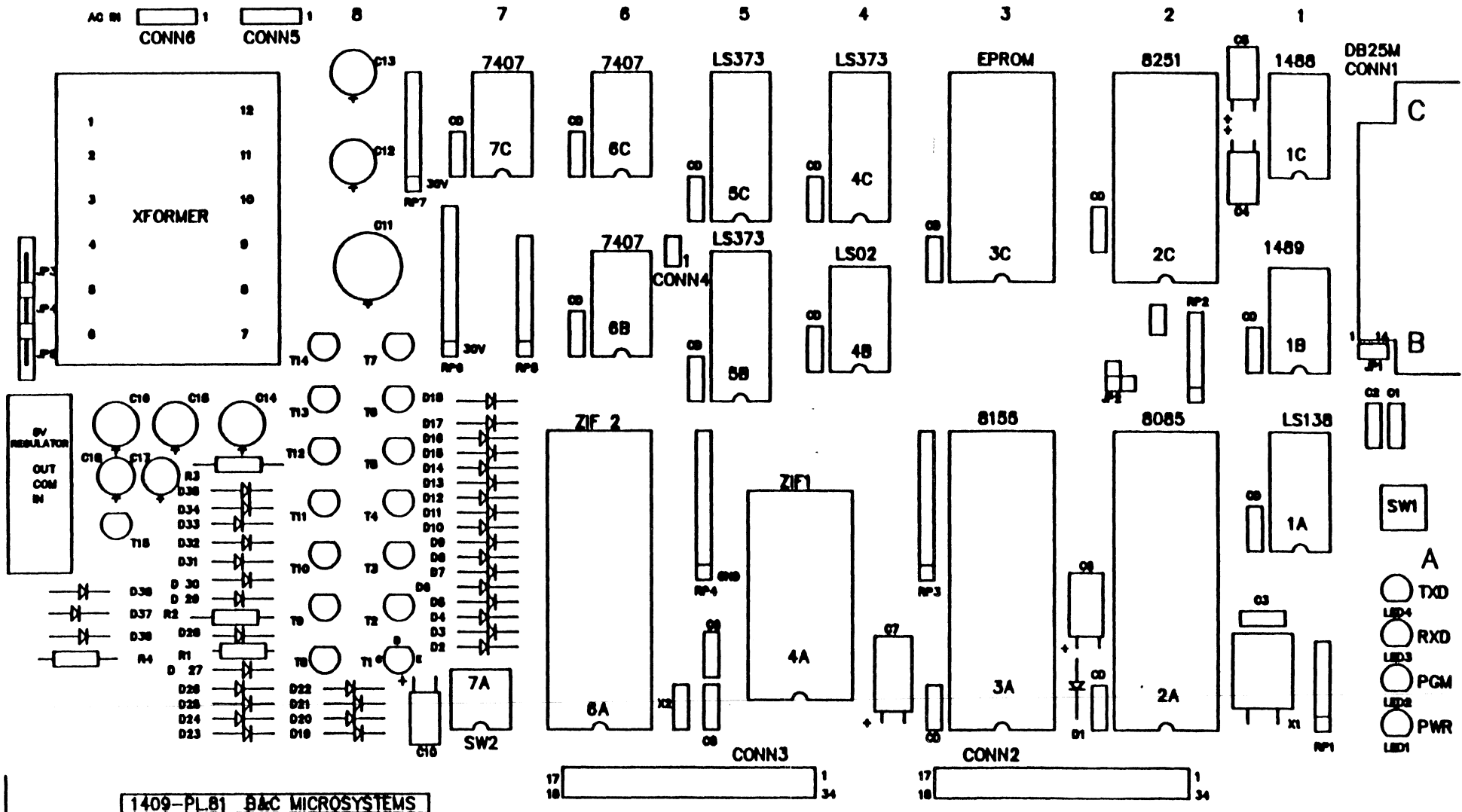
| | | |
|-------|---|-------|
| 1 | 2 | 3 |
| AC IN | | AC IN |

(T1 = LINE XFORMER)

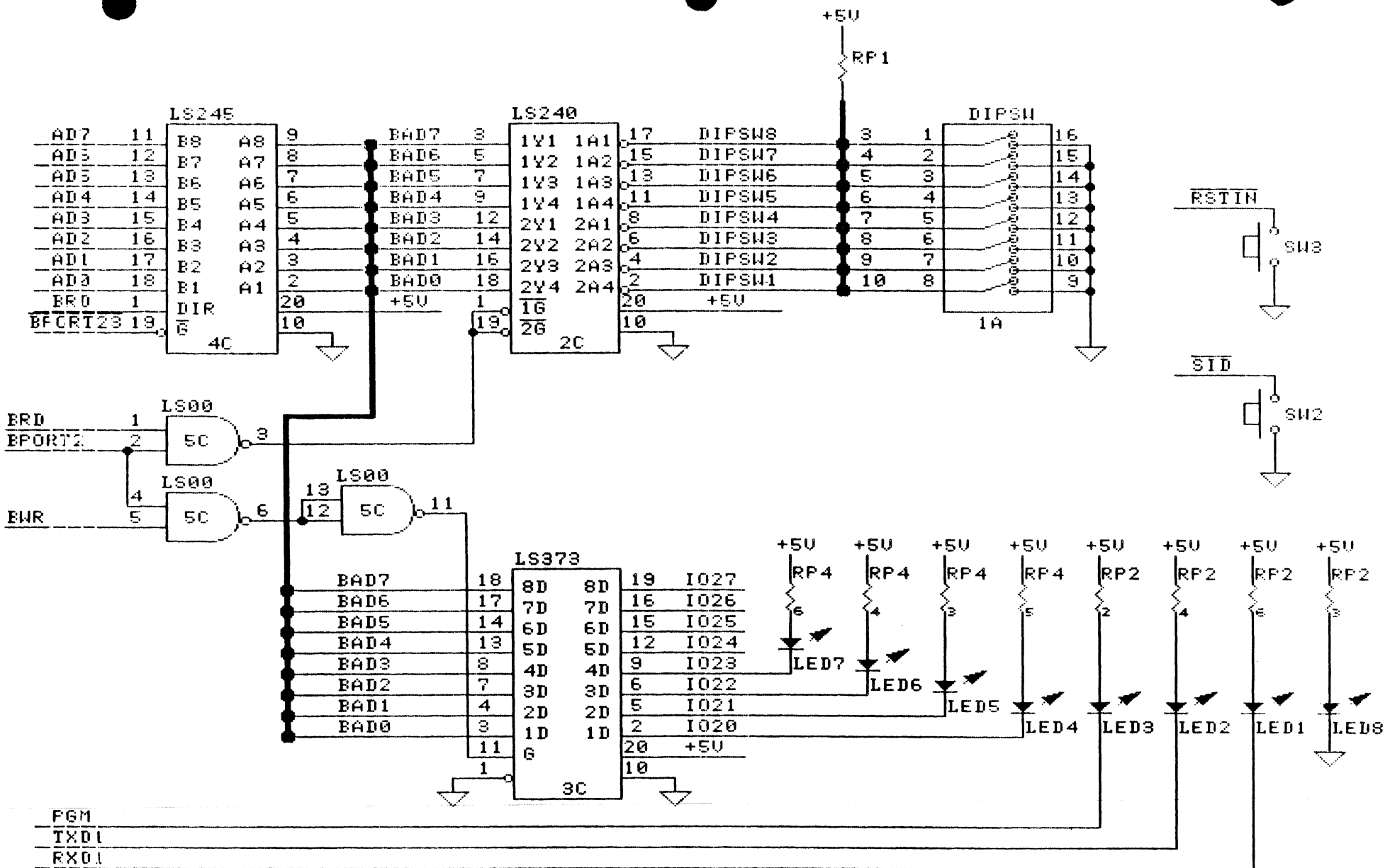
NOTES:

- (*) 6A-25 = PIN 25 OF THE I.C. AT LOCATION 6A
- (**) IDENTICAL FOR THE TOP BOARD

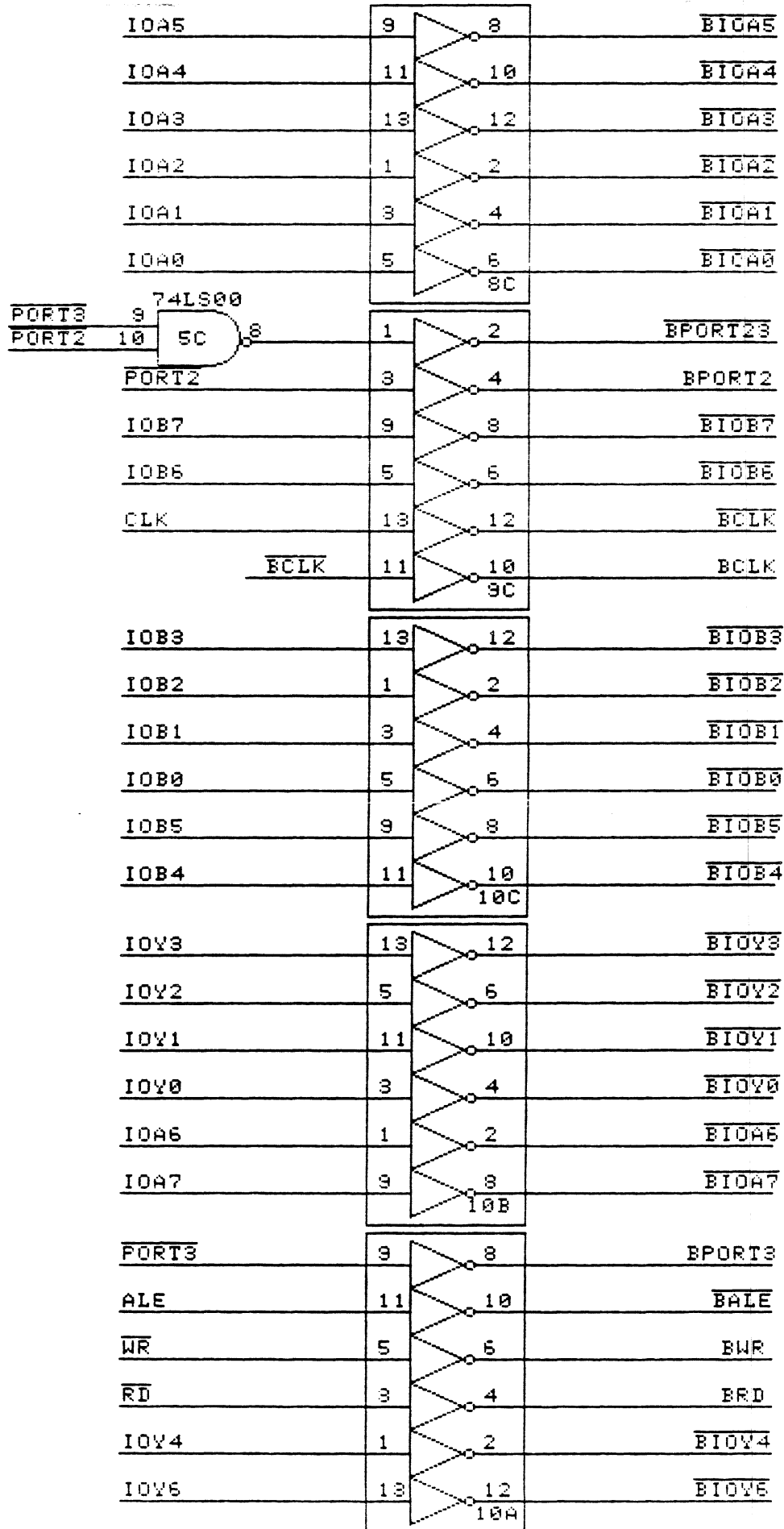
| | | | | | |
|---|------------|-------|---------|-----------|-------|
| B&C Microsystems 6322 MOJAVE DR SAN JOSE CA. 95120 | TITLE | MODEL | VERSION | DATE | FILE |
| | CONNECTORS | 1409 | 8.4 | JAN 05 87 | PAG06 |

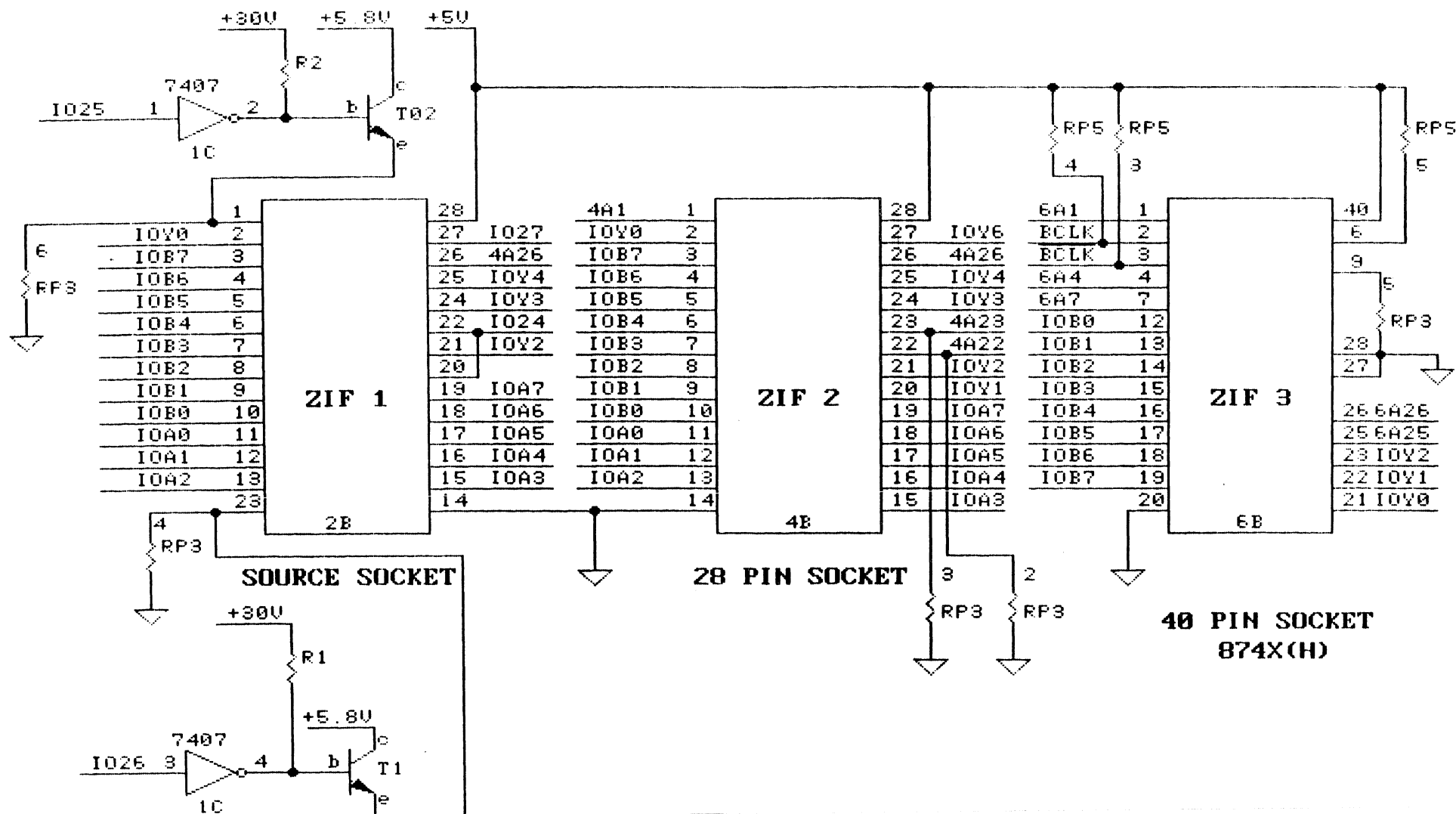


| B&C Microsystems | TITLE | MODEL | VERSION | DATE | FILE |
|------------------------------------|---------|-------|---------|-----------|-------|
| 6322 MOJAVE DR. SAN JOSE CA. 95120 | LAY OUT | 1409 | 8.0 | MAY 22 86 | PAG07 |



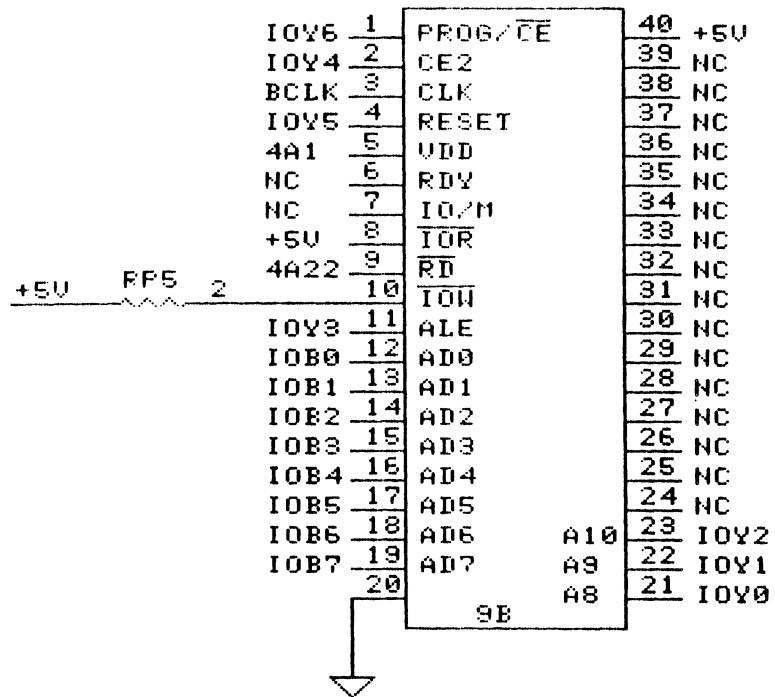
| | | | | | |
|---|-----------------------------|-------|---------|-----------|-------|
| B&C Microsystems 6322 HOJAVE DR. SAN JOSE CA. 95120 | TITLE | MODEL | VERSION | DATE | FILE |
| | TOP BOARD - EXTRA I/O PORTS | 1409 | 8.4 | JAN 05 87 | PAG08 |





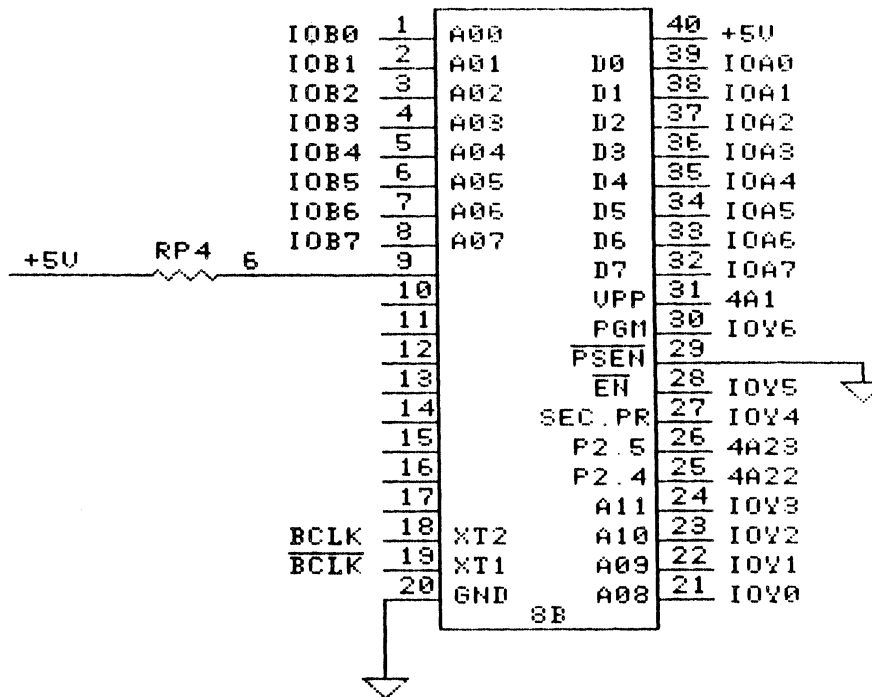
ZIF 5

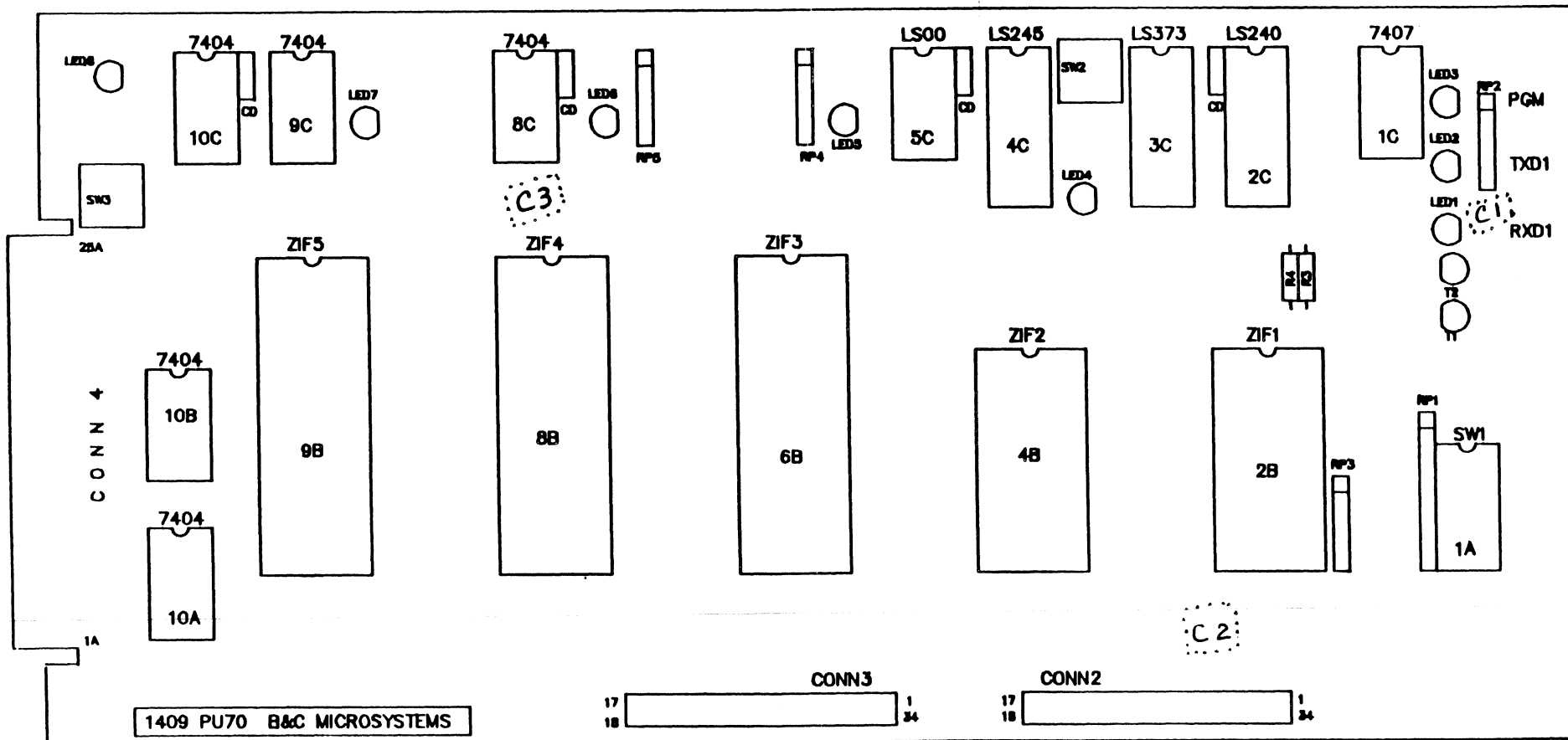
8755



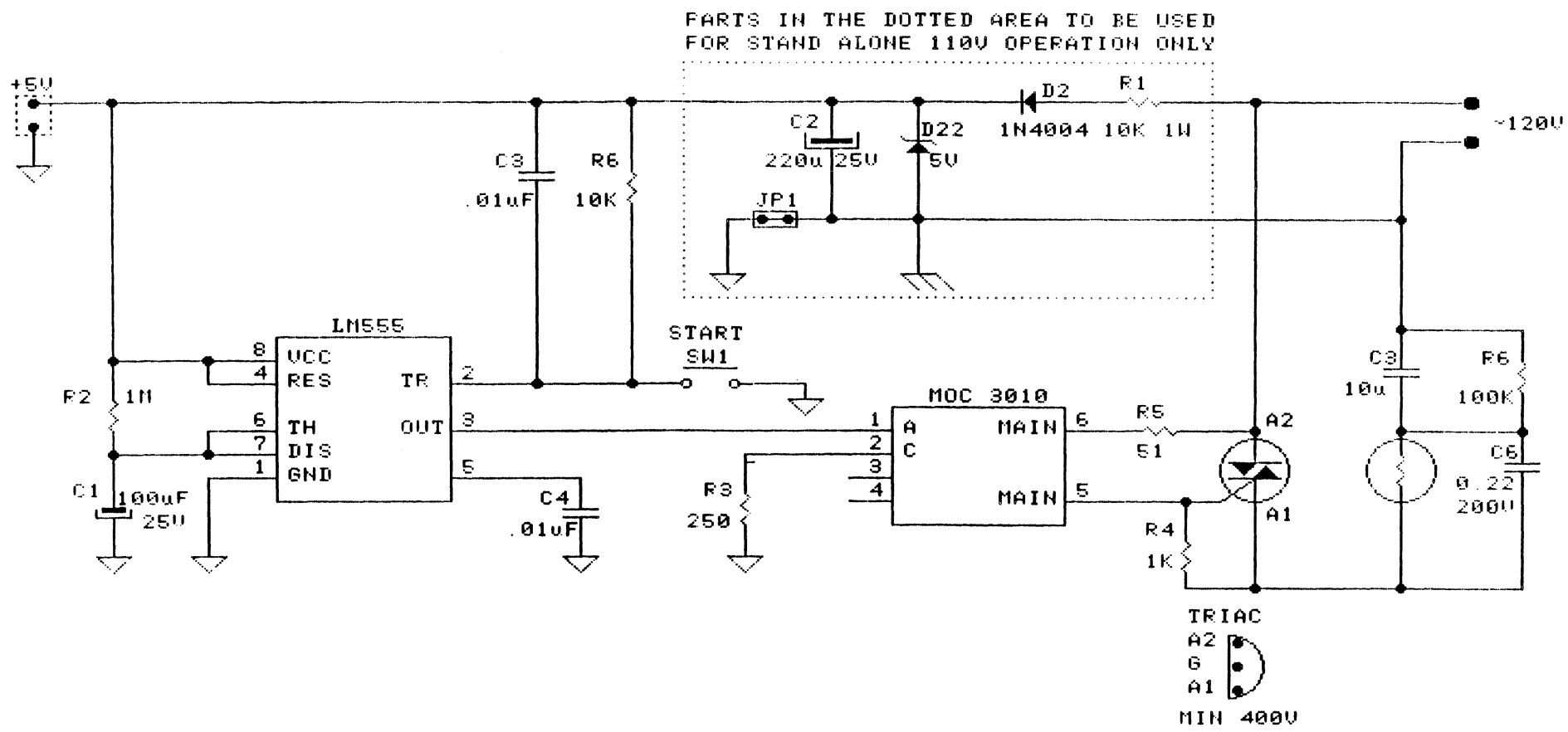
ZIF 4

8744/8751





| | | | | | |
|---|-------------------|-------|---------|-----------|-------|
| B&C Microsystems 6322 MOJAVE DR. SAN JOSE CA. 95120 | TITLE | MODEL | VERSION | DATE | FILE |
| | TOP BOARD LAY OUT | 1409 | 8.0 | MAY 27 86 | PAG15 |



| B&C Microsystems | TITLE | MODEL | VERSION | DATE | FILE |
|------------------------------------|--------------------|-------|---------|-----------|-------|
| 6322 MOJAVE DR. SAN JOSE CA. 95120 | ERASER/TIMER BOARD | 1409 | 8.4 | JAN 05 87 | PAG13 |

NULL-MODEM CABLE SPECIFICATIONS

THE 1409 IS CONFIGURED AS DATA TERMINAL EQUIPMENT. IN ORDER TO COMMUNICATE WITH A TERMINAL, A NULL-MODEM CABLE IS REQUIRED.

THESE ARE THE CONNECTIONS REQUIRED FOR THE NULL-MODEM CABLE:

FOR SOFTWARE HANDSHAKE ONLY

1409 CONNECTOR DB-25 FEMALE

COMPUTER CONNECTER

| | | | | |
|------------------|---|-------|---|------------------|
| (BA) TXD (pin 2) | > | ===== | < | (BB) RXD (pin 3) |
| (BB) RXD (pin 3) | > | ===== | < | (BA) TXD (pin 2) |
| (AB) GND (pin 7) | > | ===== | < | (AB) GND (pin 7) |
| (CA) RTS (pin 4) | > | ┌ | | |
| (CB) CTS (pin 5) | > | └ | | |

FOR HARDWARE HANDSHAKE

1409 CONNECTOR DB-25 FEMALE

COMPUTER CONNECTER

| | | | | |
|-------------------|---|-------|---|-------------------|
| (BA) TXD (pin 2) | > | ===== | < | (BB) RXD (pin 3) |
| (BB) RXD (pin 3) | > | ===== | < | (BA) TXD (pin 2) |
| (CA) RTS (pin 4) | > | ===== | < | (CB) CTS (pin 5) |
| (CB) CTS (pin 5) | > | ===== | < | (CA) RTS (pin 4) |
| (CC) DSR (pin 6) | > | ===== | < | (CD) DTR (pin 20) |
| (CD) DTR (pin 20) | > | ===== | < | (CC) DSR (pin 6) |
| (AB) GND (pin 7) | > | ===== | < | (AB) GND (pin 7) |

INTEL HEX FORMAT

DATA RECORD:

| | |
|----------|--|
| BYTE 1 | COLON (:). |
| 2..3 | NUMBER OF DATA BYTES IN THIS RECORD. |
| 4..5 | LOAD ADDRESS FOR THIS RECORD, HIGH BYTE. |
| 6..7 | LOAD ADDRESS FOR THIS RECORD, LOW BYTE. |
| 8..9 | RECORD TYPE, MUST BE "00". |
| 10..X | DATA BYTES, TWO ASCII-HEX CHARACTERS EACH. |
| X+1..X+2 | CHECKSUM, TWO ASCII-HEX CHARACTERS. |
| X+3..X+4 | CR, LF. |

END RECORD:

| | |
|--------|---|
| BYTE 1 | COLON (:). |
| 2..3 | RECORD LENGTH, MUST BE "00". |
| 4..7 | START ADDRESS, "0000" IN MCS-86 END RECORD. |
| 8..9 | RECORD TYPE, "01" OR "00" IS ACCEPTABLE. |
| 10..11 | CHECK SUM. |
| 12..13 | CR, LF. |

THE CHECKSUM IS THE TWO'S COMPLEMENT OF THE 8-BIT SUM, WITHOUT CARRY, OF ALL THE DATA BYTES, THE TWO BYTES IN THE LOAD ADDRESS, AND THE BYTE COUNT.

MOTOROLA HEX FORMAT

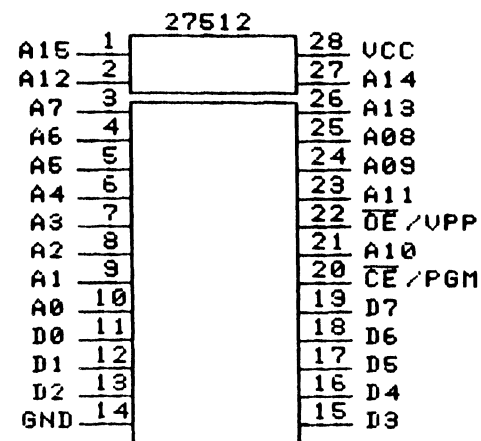
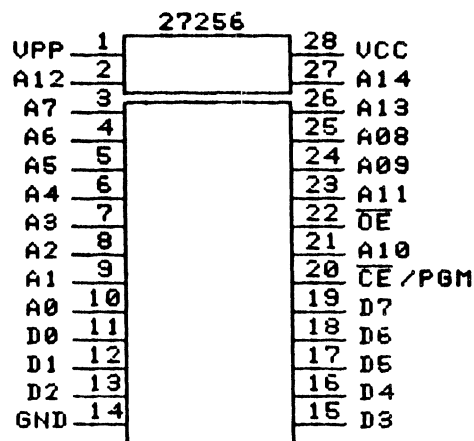
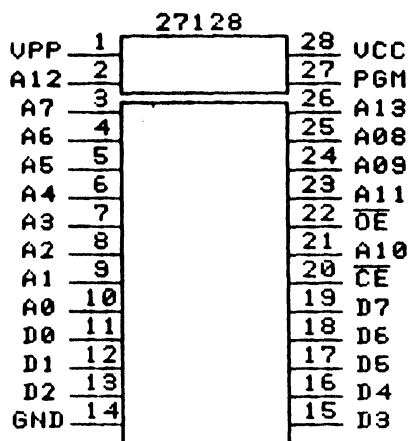
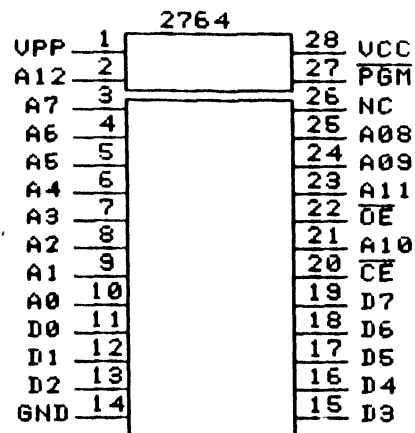
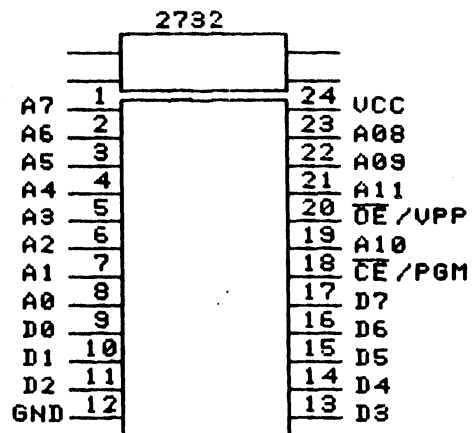
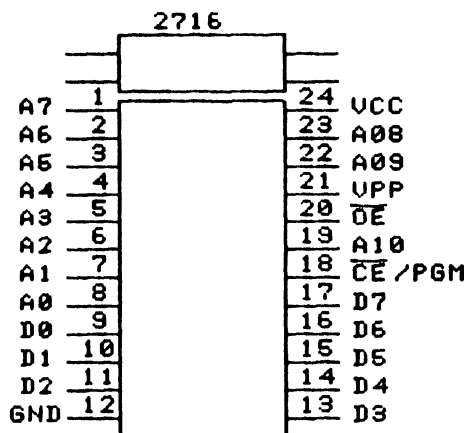
DATA RECORD:

| | |
|-----------|--------------------------------------|
| BYTE 1..2 | "S1". |
| 3..4 | NUMBER OF DATA BYTES IN THIS RECORD. |
| 5..6 | LOAD ADDRESS, HIGH BYTES. |
| 7..8 | LOAD ADDRESS, LOW BYTES. |
| 9..X | DATA BYTES, TWO CHARACTERS EACH. |
| X+1..X+2 | CHECKSUM. |
| X+3..X+4 | CR, LF. |

THE BYTE COUNT IS 3 GREATER THAN THE NUMBER OF DATA BYTES. THE CHECKSUM IS THE ONE'S COMPLEMENT OF THE 8-BIT SUM, WITHOUT CARRY, OF THE BYTE COUNT, THE TWO BYTES OF THE LOAD ADDRESS, AND THE DATA BYTES.

END RECORD:

| | |
|-----------|---------|
| BYTE 1..2 | "S9". |
| 3..4 | CR, LF. |



APPENDIX III

| | | | | | |
|--|--------------------|-------|---------|-----------|--------|
| B&C Microsystems 5322 MOJAVE DR. SAN JOSE CA. 95120 | TITLE | MODEL | VERSION | DATE | FILE |
| | 27XXX EPROM PINOUT | 1409 | 8.0 | MAY 27 86 | EPROMS |

