

MAINTENANCE MANUAL

AD SERIES

MODELS: AD-8115A/B

**A & D COMPANY, LTD.
A & D ENGINEERING, INC.**

mono-EXY-A-008a/b-v. 1

C O N T E N T S

I. Visual Check

II. Main Unit Check

III. Power Source Check (PZ697)

IV. After checking the power source, connect the following boards and connectors:

V. Normal Printing Operation

VI. Option 01

VII. Adjustment Operation

VIII. Repair

IX. Parts List

X. Exploded View

XI. Schematics

I. Visual Check

Check both main unit and printed circuit boards visually.

Major Check Point

Pay special attention to the wiring of the AC input.

Also, check the transformer tap and voltage selector carefully.

Set the voltage selector switch (located under the bottom) to the correct input voltage.

II. Main Unit Check

Turn on the power to the main unit with no printed circuit boards mounted.
Check the pin voltages of the mother board.

| Pin No. | Voltage | Remarks | Common |
|----------|---------------------|-----------------------------------|--------------------------------------|
| J6-12AB | +5V (4.75~5.25V) | Logic power source | Main unit C4 6800uF 16V- J6-1AB |
| J5-1~3AB | +30V (+26V~35V) | Rectification voltage for +24V | Main unit C4 4700uF 35V- J5-4~6AB |

III. Power Source Check (PZ697)

Connect PZ697 power source printer drive board to the main unit.

When this is done, do not connect J7 (connector to the printer mechanism).

Check the voltages of the check terminal and following positions on the board and adjust with VRs. (Common : C3-lead)

| Check Position | Adjusting VR | Adjusted Voltage |
|-------------------------|--------------|------------------|
| TP1 - C3 Minus | VR1 2K | +24V±0.5V |
| U2-1 - C3 Minus lead | VR2 2K | +1.4V±0.02V |
| U2-3 - C3 Minus lead | VR3 5K | +1.35V±0.02V |

IV. After checking the power source, connect the following boards and connectors:

PZ697, PZ698 For 8115A ; Key unit (J1)

For 8115B ; Key unit (J1, J2)

Connect with the printer mechanism ; J7

Connect AD4316/21 to DATAIN.

Plug Z80 and ROM into sockets.

For DIP switches, turn on No. 8 only.

For the HEX switch, adjust to 1.

Turn on the power, set paper and proceed with the adjustment operation mentioned on the next page.

Make checks 1 through 8 because no option has been connected yet.

V. Normal Printing Operation

Turn off all DIP switches. Connect AD4316/21.

For 8115A; Press the PRINT button and check that the following is printed.

| | | |
|----------|---------|-------------------|
| WEIGHT | WEIGHT | 216K _g |
| Printing | SEQ.# | 1 |
| | 08:55PM | 20/07/84 |

- For 8115B; 1 Press the MEMORY button 1. Check that the relevant LED flickers.
2 Press the PRINT button.

The following is printed out:

| | | |
|----------|----------|-------------------|
| WEIGH IN | WEIGH-IN | 216K _g |
| Printing | MEM.# | 1 |
| | 08:55PM | 20/07/84 |

- 3 Press the MEMORY button 1. Check that the relevant LED flickers.
4 Press the PRINT button.

The following is printed out:

| | | |
|----------|---------|-------------------|
| NET | GROSS | 241K _g |
| Printing | TARE | 216K _g |
| | NET | 25K _g |
| | SEQ.# | 1 |
| | 08:56PM | 20/07/84 |

- 5 Press the TOTAL button.

| | | |
|----------|------------|-------------------|
| TOTAL | TOTAL | |
| Printing | # 1 NET | 25K _g |
| | # 1 WEIGHT | 216K _g |

VI. Option 01

For an option 01 test, prepare RS232C data reception terminal or connect an AD8116 printer.

Also, make 8114B ready. Mount 8115 OP-02 board.

Turn on 8116, pressing FEED. MODE is 1.

Set adjustment mode by the DIP switches. Turn on the DIP switch No. 8 only, set the HEX switch to 8 and press the PRINT button of the key unit.

The following is output as output data of Option 01. Press the PRINT button of 8114B. When this is done, switch over the HEX switch with a screwdriver.

| HEX Switch | | Output Data |
|------------|---|-----------------------|
| 0 | - | 0 |
| 1 | - | 10 |
| 2 | + | 100 |
| 3 | - | 100 |
| 4 | + | 1000 |
| 5 | + | 10000 |
| 6 | + | 100000 |
| 7 | + | 500000 |
| 8 | - | 200 |
| 9 | - | 1 0500 |
| A | - | 2000 |
| B | - | 1 2000 |
| C | + | 5 5 5 |
| D | + | 543210 |
| E | + | 987654 ← Red printing |
| F | + | 500000 |

Make 8114 print the data.

VII. Adjustment Operation

Make adjustment by using the DIP switches, HEX switch and PRINT switch. Turn on the DIP switch No. 8 and press the PRINT switch of the key unit A/B. Depending on HEX switch setting, 16 kinds of adjustments are made. When adjustment operation does not automatically end, press the PRINT switch again. After completing adjustment, set the DIP switches again.

| HEX Switch | | Function | End Commands | | Option | Remarks |
|-----------------------|---|-----------------------------------|--------------|-------|--------|--|
| | | | Auto | Print | | |
| Adjustment Operations | 0 | | | | | Executed about every 10 minutes. |
| | 1 | Paper feed | | ○ | | |
| | 2 | H printing | | ○ | | |
| | 3 | Column. character and model | ○ | | | |
| | 4 | AD4316. /4321 data | ○ | | | In case of a data check error, an error code is input to the header 2. |
| | 5 | DIP switches | ○ | | | |
| | 6 | Clock data | ○ | | | |
| | 7 | AD8115B switch → LED | | ○ | | |

An adjusting function with an option cannot be executed without specifying it.

Note : Copy of printed-out paper

[Paper feed]

[H printing]

HHH
HH

[Column]

12345678901234567890123456

Character

!"#\$%&'(>)*+,-./
0123456789:;<=>?
@ABCDEFGHIJKLMNO
PQRSTUVWXYZ[\]^_

Model

SLIP PRINTER
AD-8115
REV 1.1 (84/05/13) — Depends on the ROM
version.

[AD4316/4321 data]

ST, NT, +003.024K9

[DIP switches]

DIP SW CHECK
NO.76543210
ST.10000000

[Clock data]

DATE DATA = 20/07/84
TIME DATA = 08:37PM

Key Test of 8115B

The LED corresponding to a pressed button must light up. Pressing the button again turns off the LED. If the TOTAL button is pressed, the POWER LED will light up.

The above-mentioned printing can be executed even when the READY LED is off.

Submit printing results together with a check list to an inspection. Check all dIP switches by turning them on (No. 1 through 8) bit by bit sequentially.

Next, turn on the DIP switch No. 8 only, set the HEX switch to 9 and turn on the power. If the PRINT button is pressed, the data will be output to 8114 in the following order. Make sure this is printed.

| Output Data | | | | | | |
|-------------|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| A | A | A | A | A | A | A |
| B | B | B | B | B | B | B |
| C | C | C | C | C | C | C |
| D | D | D | D | D | D | D |
| E | E | E | E | E | E | E |
| F | F | F | F | F | F | F |

When testing RS232C, check whether or not the same data are printed by normal printing operation in VII.

After completing the test, turn off all DIP switches.

Adjustment of OP-02 Key Unit

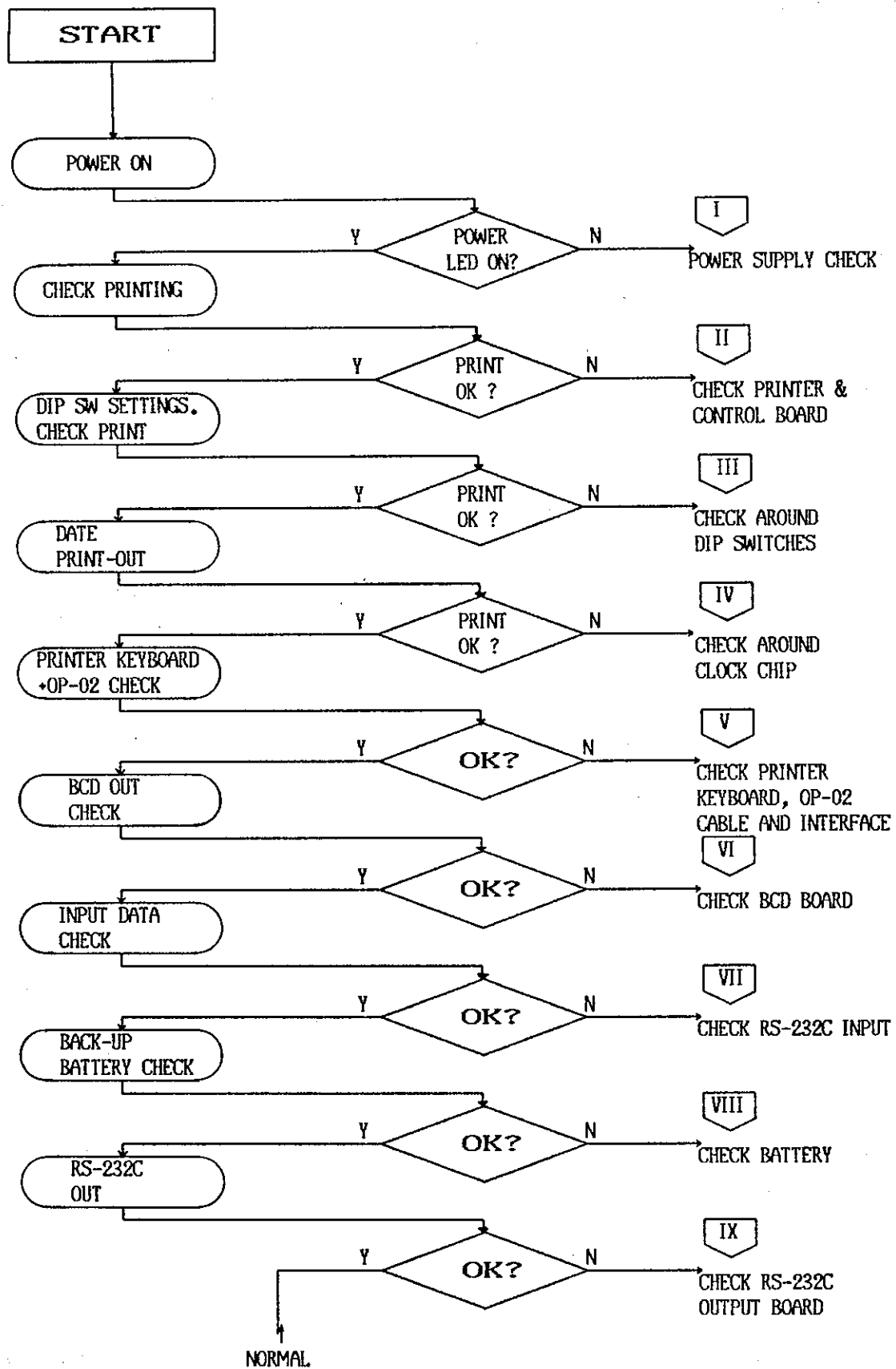
The key unit OP-02 of AD8115 consists of a keyboard, cables and a memory board (PZ700). Fix the memory board to the rear panel of the main unit with screws. Connect with a cable between the memory board and CPU board. Connect with a flat cable between the memory board and keyboard.

Turn on the DIP switch No. 8, set the HEX switch to B and turn on the power. After a while, "Key Check" will be displayed on the LCD DISPLAY unit.

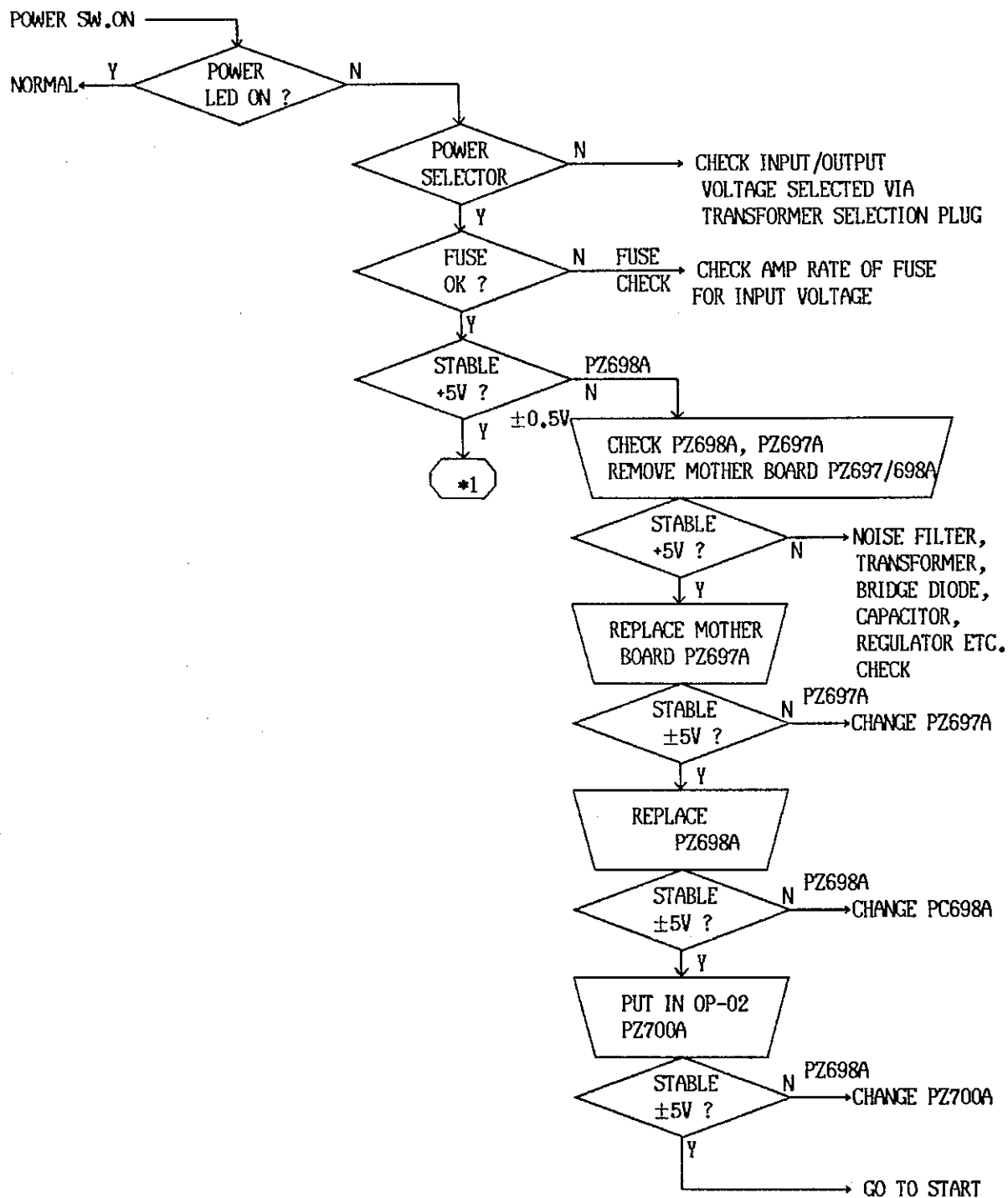
If a character or numeric key is pressed, the same character will be displayed on the LCD DISPLAY unit. Check all characters and numerals of key switches in this mode. If the C key is pressed at this time, one character on the left side will be deleted. Check that the buzzer sound is emitted when each function key is pressed. Check all function keys in this way.

Next, set the HEX switch to E and turn on the power. Thereafter, pressing the PRINT button causes the LED to flash. Test the LED in this way.

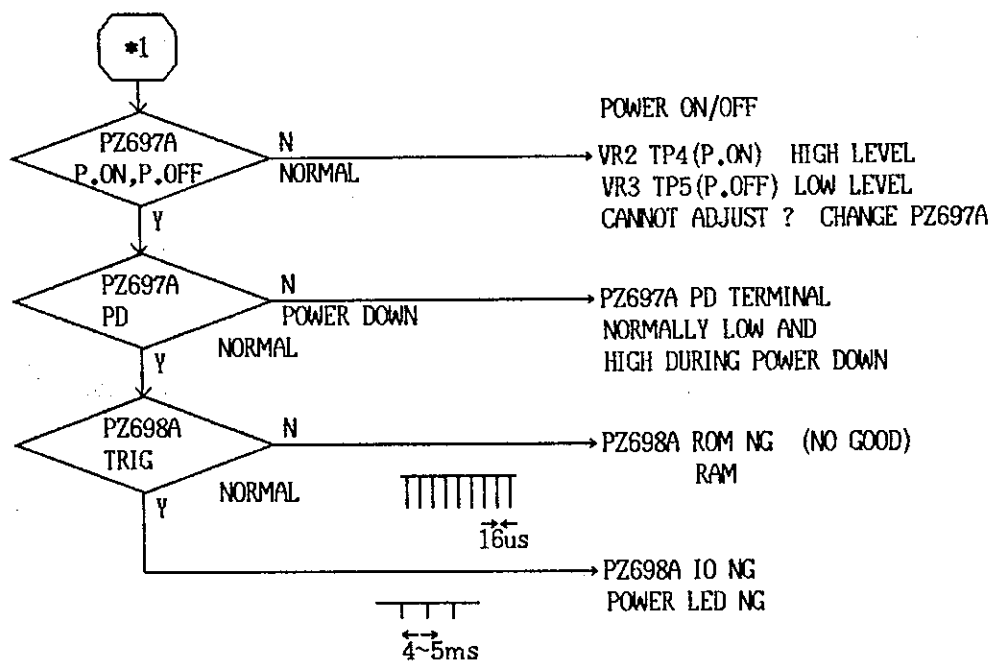
VIII. Repair



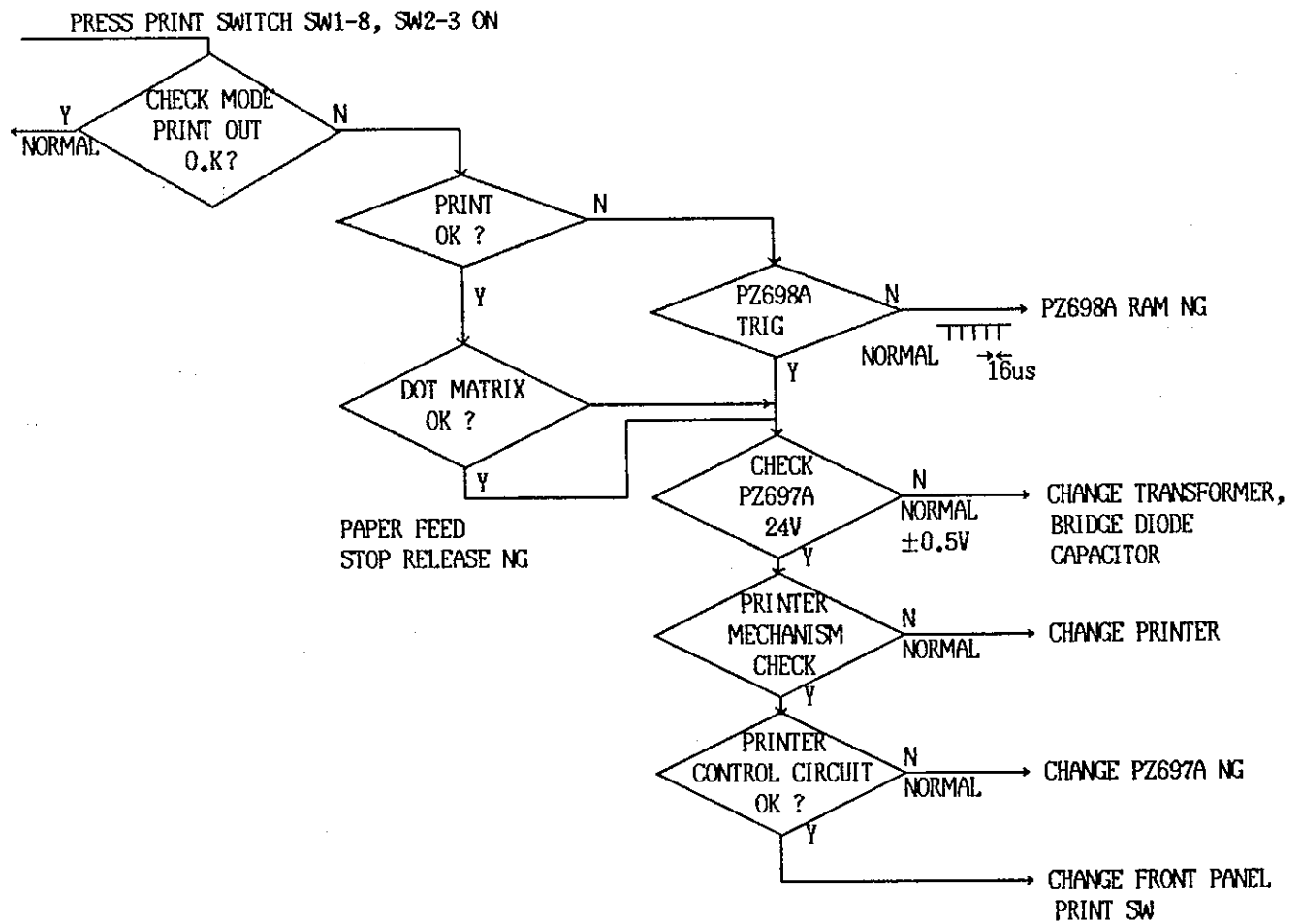
I POWER SUPPLY CHECK (1)



I POWER SUPPLY CHECK (CONTINUED)



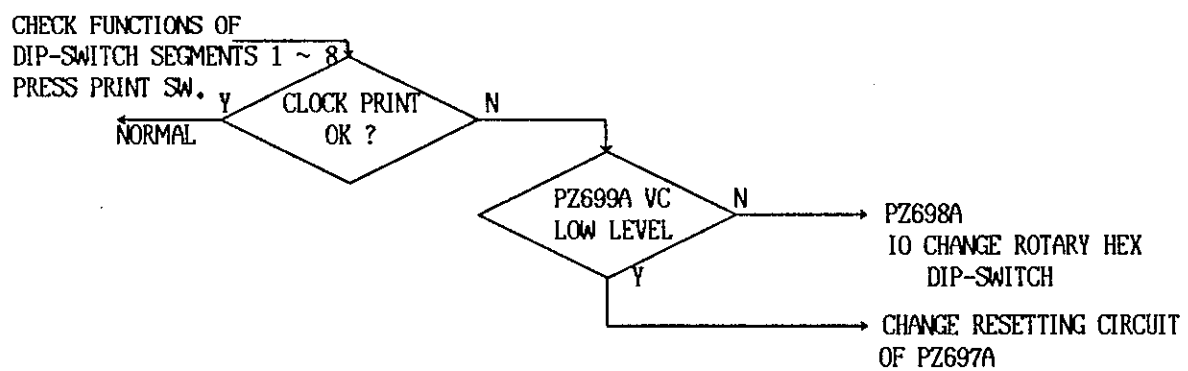
II PRINTER & CONTROL BOARD

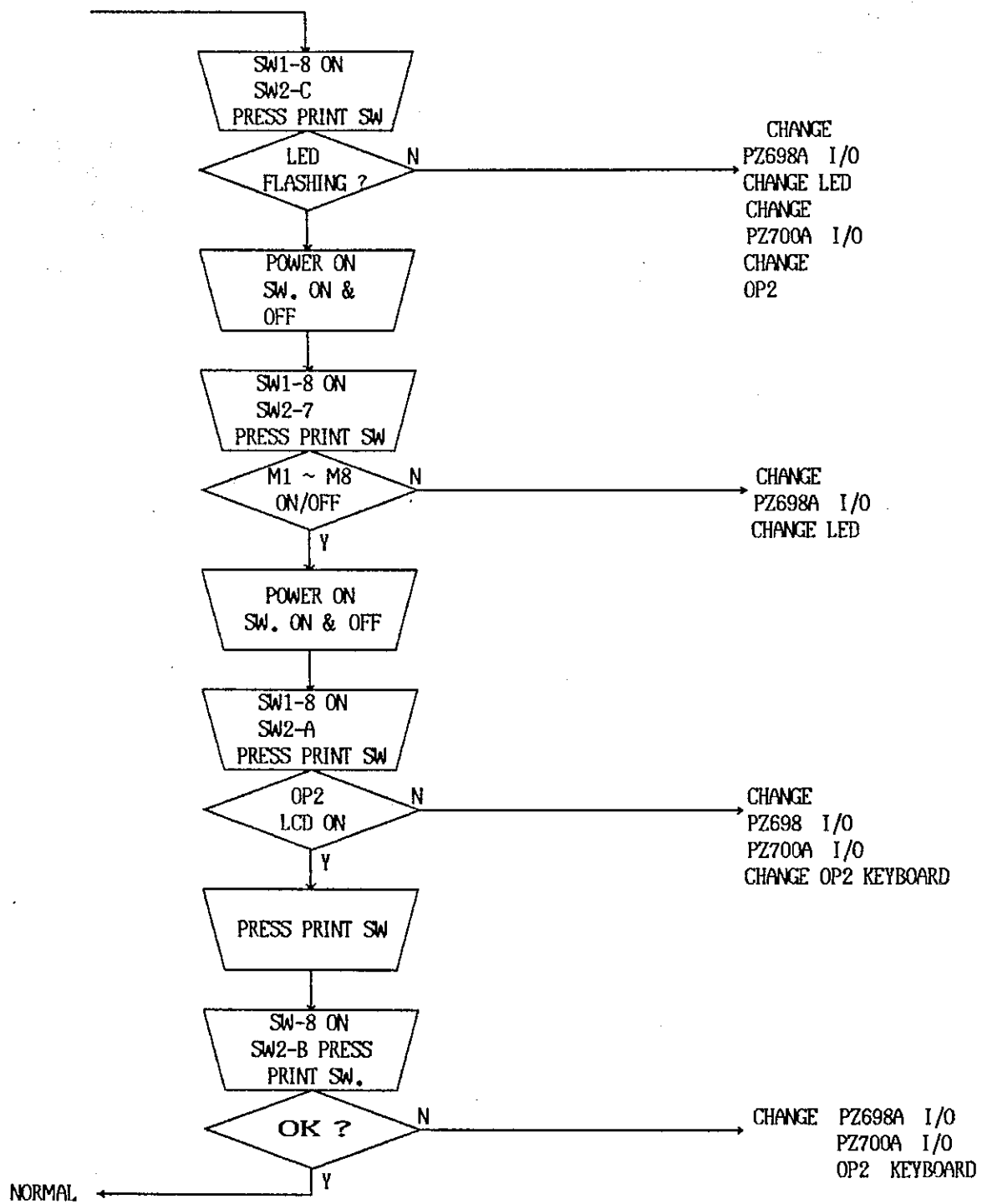




DIP - SWITCHES

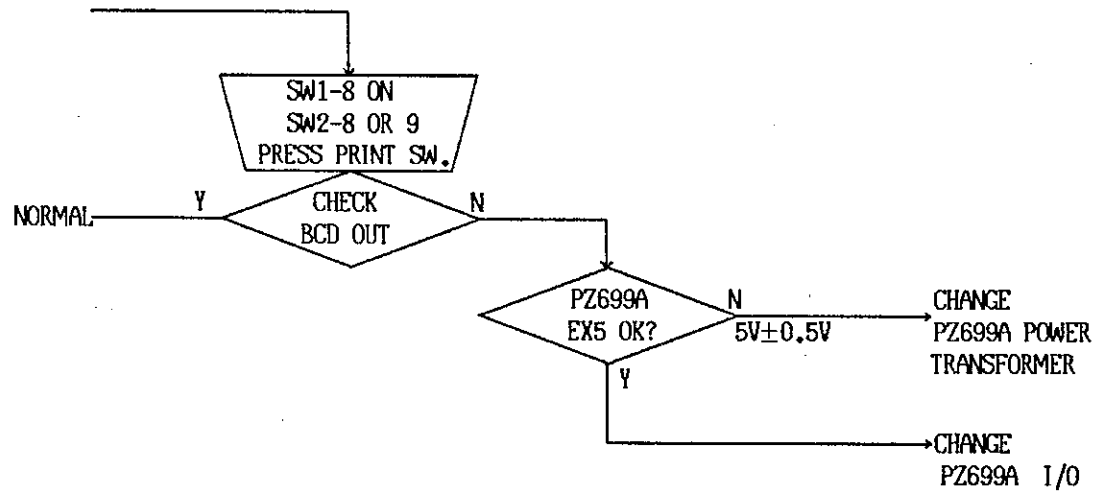


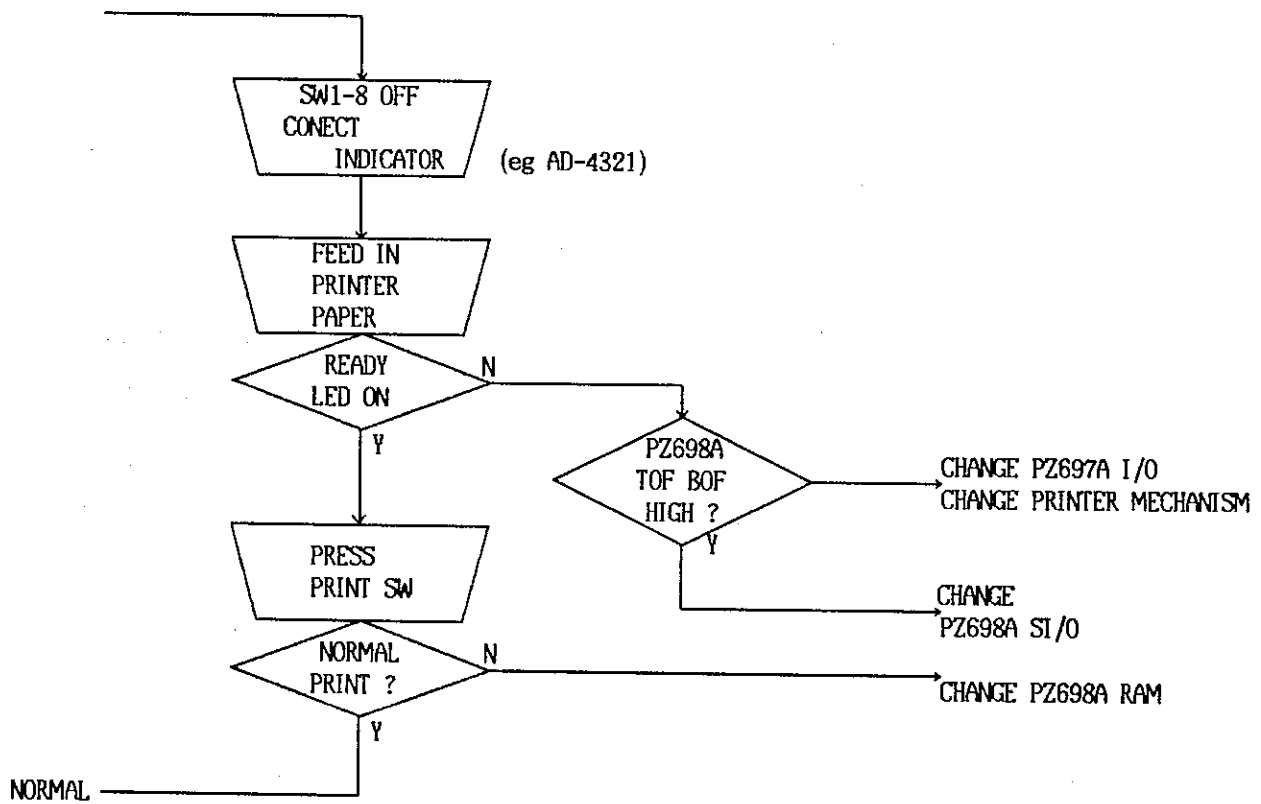






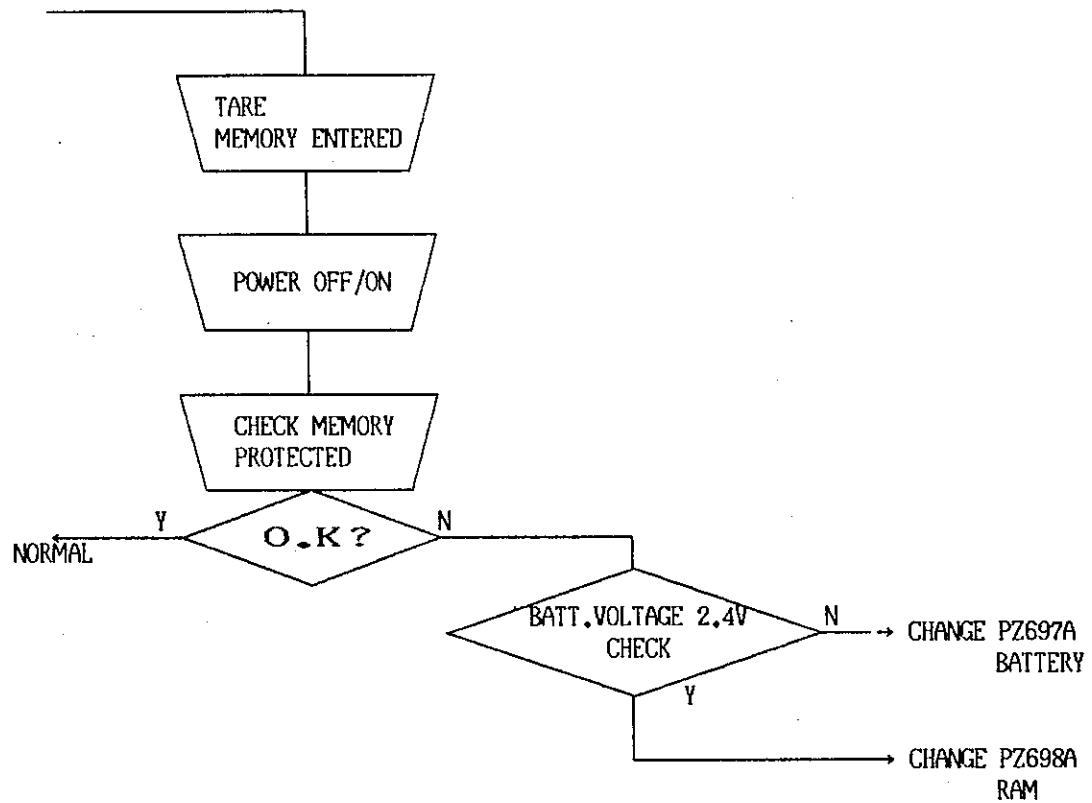
BCD BOARD (OP-01)





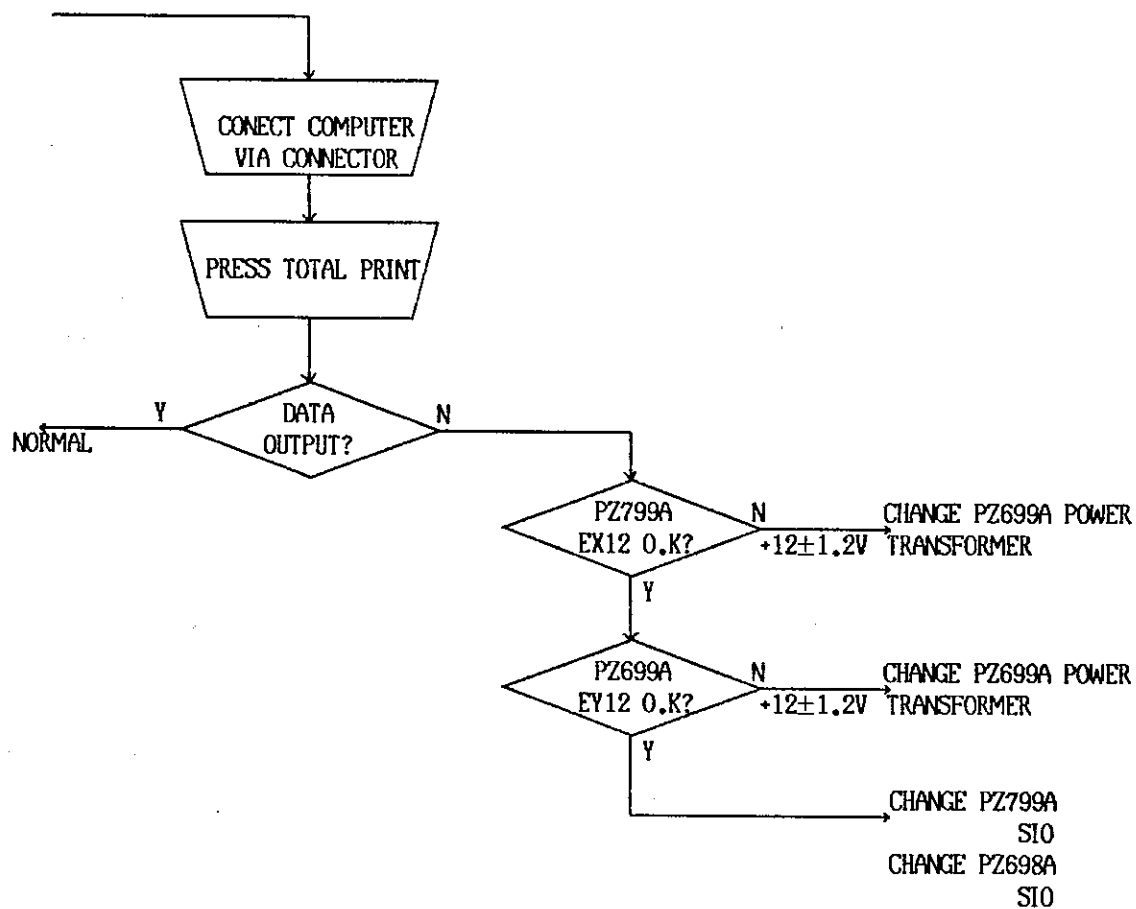


BACK-UP BATTERY



IX

RS-232C OUTPUT (OPTION-01)



IX. Parts List

MAIN BOARD

| CIRCUIT SYMBOL OR DRWG. NO. | LOCATION | PARTS NAME | DESCRIPTION | Q'TY |
|--------------------------------|----------|-----------------|---|------|
| | PZ:698 | PZ:698 | MAIN BOARD FULLY ASSEMBLED | |
| | " | PC:698A | PRINTED CIRCUIT BOARD | |
| | " | CC:0.001U | CAPACITOR 0.001 μ F 50V | 2 |
| C2~5, | " | CC:0.022U | " 0.022 μ F 50V | 14 |
| C10 | " | CC:10P | " 10pF 50V | 1 |
| C9 | " | CD:10C030D5 | " 33pF | 1 |
| | " | CK:SM10VB47 | " 47 μ F 10V | 1 |
| C6,7 | " | CT:1C100 | " 10 μ F 16V | 2 |
| C8 | " | CV:ECVIZW30X32E | " | 1 |
| D1~3 | " | DI:1SS53 | DIODE | 3 |
| J6 | " | JI:364J048-AG | CONNECTOR | 1 |
| J9 | " | JI:704P034-AU/M | " | 1 |
| (U13) | " | JS:10328-01-445 | IC SOCKET | 1 |
| (U19) | " | JS:10340-01-445 | " " | 1 |
| J5 | " | JT:171825-7 | CONNECTOR | 1 |
| Q1 | " | QT:C1815Y | TRANSISTOR | 1 |
| R14 | " | RC:1/21M | RESISTOR 1M $\frac{1}{2}$ W | 1 |
| R16 | " | RC:1K | " 1K | 1 |
| R11 | " | RC:10K | " 10K | 1 |
| R19 | " | RC:22K | " 22K | 1 |
| R13,15,17,20 | " | RC:3.3K | " 3.3K | 4 |
| R1~10 | " | RC:330R | " 330 Ω | 10 |
| R12 | " | RC:4.7K | " 4.7K | 1 |
| R18 | " | RC:47K | " 47K | 1 |
| R21~34 | " | RN:IHR-4-223MA | RESISTOR NET WORK 22K \times 4, $\frac{1}{8}$ W | 14 |
| SW2 | " | SD:KDR16 | | 1 |
| SW1 | " | SD:KTD08 | DIP SWITCH (8POS) | 1 |
| | " | TM:CP-10 | TEST PIN | 8 |
| U20 | | UC:D1990C | CMOS | 1 |
| U13 | | UC:40H032 | HCMOS | 1 |
| U22 | | UC:4049 | CMOS | 1 |
| U9 | | UC:5516 | RAM | 1 |
| U16 | | UN:8251 | S10 | 1 |
| U1 | | UT:LS02 | TTL | 1 |
| U7 | | UT:LS08 | " | 1 |
| U3 | | UT:LS112 | " | 1 |
| U5 | | UT:LS138 | " | 1 |
| U21 | | UT:LS139 | " | 1 |
| U6,8,11,14 | | UT:LS251 | " | 4 |
| U2,4,15,17 | | UT:LS259 | " | 4 |
| U10,13,18 | | UT:LS32 | " | 3 |
| U23 | | UT:LS393 | " | 1 |
| X1 | | XT:9102 | X TAL 32.768kHz | 1 |
| X2 | | XT:9104 | X TAL 4.9152kHz | 1 |

POWER BOARD - 1/2

| CIRCUIT SYMBOL OR DRWG. NO. | LOCATION | PARTS NAME | DESCRIPTION | Q'TY |
|--------------------------------|----------|---------------|--|------|
| | PZ:697 | PZ:697 | POWER BOARD FULLY ASSEMBLED | |
| | " | PC:697A | PRINTED CIRCUIT BOARD | |
| C9 | | CC:0.001U | CAPACITOR 0.001 μ F 50V | 1 |
| C8 | | CC:0.0047U | " 0.0047 μ F 50V | 1 |
| C2,5,7,18,19,20 | | CC:0.022U | " 0.022 μ F 50V | 6 |
| C6 | | CC:100P | " 100pF 50V | 1 |
| C1 | | CC:330P | " 330pF 50V | 1 |
| C4 | | CK:SM10VB47 | " 47 μ F 10V | 1 |
| C3 | | CK:SM35VB2200 | " 2200 μ F 35V | 1 |
| C10~17 | | CM:E1474KN | " 0.47 μ F 100V | 8 |
| D1,2 | | DI:SM-1-08 | DIODE | 2 |
| D3~6 | | DI:1SS53 | " | 4 |
| DZ1 | | DZ:05Z11 | ZENER DIODE | 1 |
| BT1 | | EB:N-SB2 | NiCd BATTERY | 1 |
| J1 | | JA:U-PC2802A | CONNECTOR | 1 |
| J5 | | J1:365P048-AG | " | 1 |
| | | PC:697A | | 1 |
| Q4,5 | | QT:A1015Y | TRANSISTOR | 2 |
| Q11 | | QT:B595 | " | 1 |
| Q2,3,7,8,12 | | QT:C1815Y | " | 5 |
| Q6,9 | | QT:C982TM | " | 2 |
| Q1,10,13 | | QT:D525 | " | 3 |
| R48~54,62 | | RC:1.2K | RESISTOR 1.2K | 8 |
| R34 | | RC:1.5K | " 1.5K | 1 |
| R1 | | RC:1.8K | " 1.8K | 1 |
| R22,23 | | RC:1/22.2K | " 2.2K $\frac{1}{2}$ W | 2 |
| R55~61,63 | | RC:1/268R | " 68ohm $\frac{1}{2}$ W | 8 |
| R9,12,15,33,35, 37,38,40 | | RC:10K | " 10K | 9 |
| R31 | PZ:697 | RC:100K | " 100K | 1 |
| R5,13,27 | | RC:100R | " 100 Ω | 3 |
| R30 | | RC:2.2K | " 2.2K | 1 |
| R43,46 | | RC:2.7K | " 2.7K | 2 |
| R21,24,26,28,29 | | RC:22K | " 22K | 5 |
| R32,36,41,45 | | RC:3.3K | " 3.3K | 4 |
| R42 | | RC:3.9K | " 3.9K | 1 |
| R10,11,19 | | RC:4.7K | " 4.7K | 3 |
| R39 | | RC:560K | " 560K | 1 |
| R44,47 | | RC:560R | " 560 Ω | 2 |
| R20,25,64 | | RC:6.8K | " 6.8K | 3 |
| R14 | | RC:820R | " 820 Ω | 1 |
| R4 | | RE:RGB20.22R | " | 1 |
| R7,16 | | RM:1KF | " 1K, $\frac{1}{2}$ W, ± 100 PPM/ $^{\circ}$ C | 2 |
| R3 | | RM:10KF | " 10K, " | 1 |
| R2,17 | | RM:12KF | " 12K, " | 2 |
| R18 | | RM:3.9KF | " 3.9K, " | 1 |
| R8 | | RM:330RF | " 330 Ω , " | 1 |
| R6 | | RM:4.7KF | " 4.7K, " | 1 |
| VR1,2 | | RV:V202 | POTENTIOMETER | 2 |
| VR3 | | RV:V502 | " | 1 |
| TP1,3~8 | | TM:CP-10 | TEST PIN | 7 |
| U1 | | UA:C301AC | OP AMP | 1 |
| U7 | | UA:C339C | OP AMPS | 1 |
| U5,6 | | UA:FT5758M | | 2 |

POWER BOARD - 2/2

| CIRCUIT SYMBOL OR DRWG. NO. | LOCATION | PARTS NAME | DESCRIPTION | Q'TY |
|--------------------------------|----------|------------|--------------------|------|
| U2 | PZ:697 | UA:MB3761 | VOLTAGE COMPARATOR | 1 |
| U3,4 | | UT:LS09 | | 2 |
| | | 04:A44507 | CONNECTOR CLAMP | 1 |
| | | 05:A40416 | 36.5mm SPACER | 4 |
| | | UN:2764 | ROM | |

MOTHER BOARD

| CIRCUIT SYMBOL OR DRWG. NO. | LOCATION | PARTS NAME | DESCRIPTION | Q'TY |
|--------------------------------|----------|-----------------|-----------------------|------|
| J5 | PZ:762 | PZ:762 | PRINTED CIRCUIT BOARD | 1 |
| J6 | | PC:762 | | |
| J1~3 | | JI:364J048-AG | CONNECTOR | 1 |
| J4 | | JI:365P048-AG | " | 3 |
| L1 | | JT:1-171825-2 | " | 1 |
| | | JT:171825-3 | " | 1 |
| | | LR:H5AT7-14-3,5 | COIL | 1 |

BCD OUT UNIT BOARD (OP-01)

| CIRCUIT SYMBOL OR DRWG. NO. | LOCATION | PARTS NAME | DESCRIPTION | Q'TY |
|--------------------------------|----------|-----------------|---|------|
| | PZ:699 | PZ:699 | OPTION-01 FULLY ASSEMBLED | |
| | | PC:699A | PRINTED CIRCUIT BOARD | |
| C2 | | CC:0.022U | CAPACITOR 0.022 μ F 50V | 8 |
| C1 | | CK:SM35VB220 | " 220 μ F 35V | 1 |
| C3~5 | | CK:SM35VB470 | " 470 μ F 35V | 1 |
| PHC1,2 | | CT:1C100 | " 10 μ F 16V | 3 |
| D1 | | DF:TLP521-2 | PHOTO COUPLER | 2 |
| J1 | | DI:W02 | DIODE BRIDGE | 1 |
| J2 | | JA:25-30-335S | CONNECTOR | 1 |
| J4 | | JA:57-40500-D39 | " | 1 |
| J3 | | KO:102-3S10 | CONNECTOR CABLE | 1 |
| R1~4 | | KO:102-7S10 | " " | 1 |
| RA1 | | RC:330R | RESISTOR 330 Ω | 4 |
| TP1~8 | | RN:IHR-4-223MA | RESISTOR NET WORK 22K \times 4, $\frac{1}{8}$ W | 1 |
| U5,8,10,12 | | TM:CP-10 | TEST PIN | 8 |
| U3 | | UC:4094 | CMOS | 4 |
| U2 | | UR:MC7912CT | VOLTAGE REGULATOR -12V,1A | 1 |
| U1 | | UR:TA78L005AP | " " 5V,1A | 1 |
| U7,9,11,13 | | UR:TA78012AP | " " 12V,1A | 1 |
| U6 | | UT:LS04 | TTL | 4 |
| U4 | | UT:LS14 | " | 1 |
| | | UT:75150P | " | 1 |
| | | O4:A32807 | BOARD MOUNT PLATE | 1 |

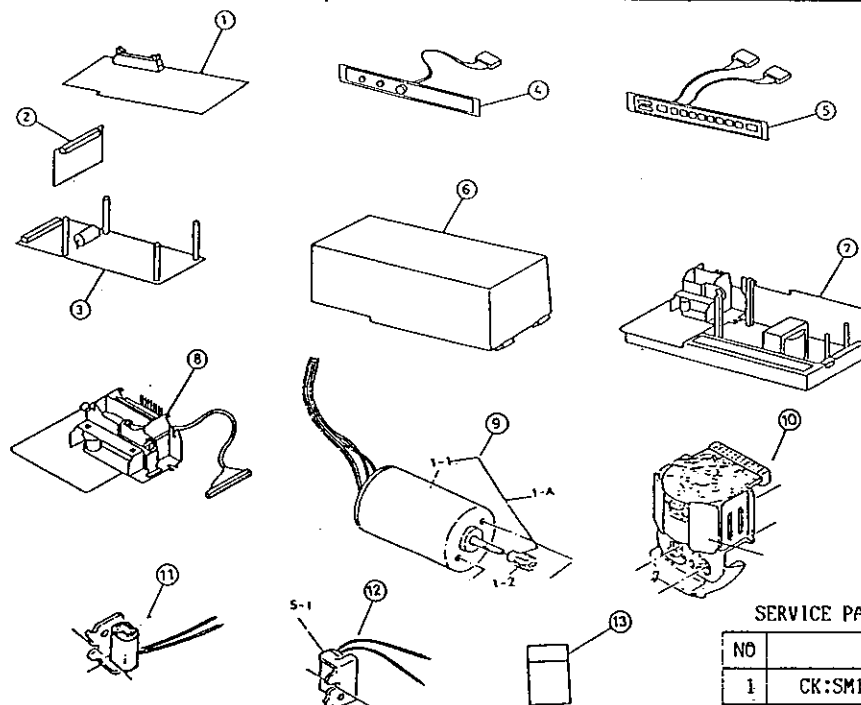
INTERFACE BOARD (OP-02)

| CIRCUIT SYMBOL OR. DRWG. NO. | LOCATION | PARTS NAME | DESCRIPTION | Q'TY |
|---------------------------------|----------|-----------------|--|------|
| C8,9,10 | PZ:700 | PZ:700 | | |
| C1,2 | | PC:700B | PRINTED CIRCUIT BOARD | 8 |
| | | CC:0.022U | CAPACITOR 0.022 μ F 50V | 2 |
| | | CT:1C100 | " 10 μ F 16V | 1 |
| | | JI:700A2 | | 1 |
| (U8) | | JI:704P034-AU/M | | 1 |
| | | JS:10328-01-445 | | 1 |
| | | KO:252A | | 1 |
| | | LR:H5AT7-14-3.5 | | 1 |
| | | PC:700B | | 1 |
| R1,2 | | RC:4.7K | RESISTOR 4.7K | 2 |
| R3,4 | | RN:IHR-4-223MA | RESISTOR NET WORK 22K \times 4, 1/8W | 2 |
| U4 | | UC:40H244 | HCMOS | 1 |
| U6,7 | | UC:5516 | RAM | 2 |
| U1~3 | | UT:LS259 | TTL | 3 |
| U5 | | UT:LS32 | TTL | 1 |
| | | O5:A40198 | 9m/m SPACER | 4 |

X. Exploded View

S P A R E U N I T S L I S T

| NO | ORDER NO | PARTS DESCRIPTION | UNIT COST ¥ | ADJUSTMENT REQUIRED? | STOCK 10-100 UNITS |
|----|----------------|-------------------------|-------------|----------------------|--------------------|
| 1 | 7PZ:698 | CPU BOARD UNIT | | YES | 1 |
| 2 | 7PZ:762 | MOTHER BOARD UNIT | | NO | 1 |
| 3 | 7PZ:697 | POWER SUPPLY BOARD UNIT | | YES | 1 |
| 4 | 7PA:8115-2 | AD-8115A SWITCH UNIT | | NO | 1 |
| 5 | SW:A32829A | AD-8115B SWITCH UNIT | | NO | 1 |
| 6 | 7PM:8115-A | COVER UNIT | | NO | 1 |
| 7 | 7PA:8115-1 | MAIN UNIT 8115A/B | | NO | 1 |
| 8 | EP:MODEL 240 | PRINTER MECHA UNIT | | NO | 1 - 2 |
| 9 | 710:F203211000 | MOTOR UNIT | | NO | |
| 10 | 710:F203610001 | DOT HEAD UNIT | | NO | |
| 11 | 710:F203523000 | PAPER TRIGGER UNIT A | | NO | |
| 12 | 710:F203411000 | PAPER TRIGGER UNIT B | | NO | |
| 13 | 7PA:AD8115-SPP | SERVICE PARTS PACKET | | | 1 - 2 |

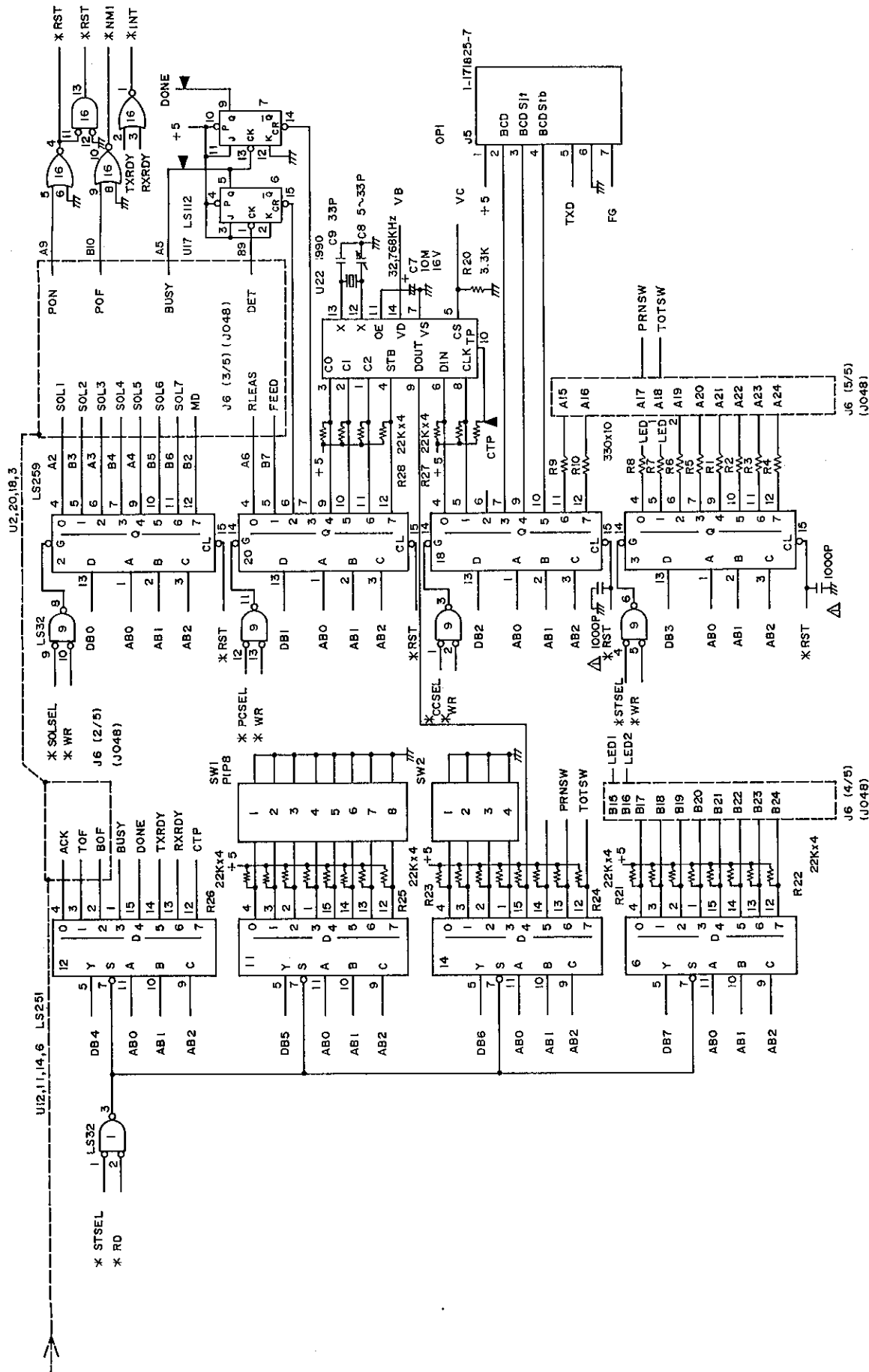


SERVICE PARTS PACKET LIST

| NO | | DESCRIPTION | QTY |
|----|-------------|--------------------------|-----|
| 1 | CK:SM10VB47 | CAPACITOR 47 μ F 10V | 1 |
| 2 | UA:C339C | OP AMPS | 1 |
| 3 | QT:C982TM | TRANSISTER | 1 |
| 4 | UA:FT5758M | TRANSISTER NET WORK | 1 |
| 5 | QT:D525 | TRANSISTER | 1 |
| 6 | EB:N-SB2 | NiCd BATTERY | 1 |
| 7 | SD:KDR16 | DIP SWITCH | 1 |

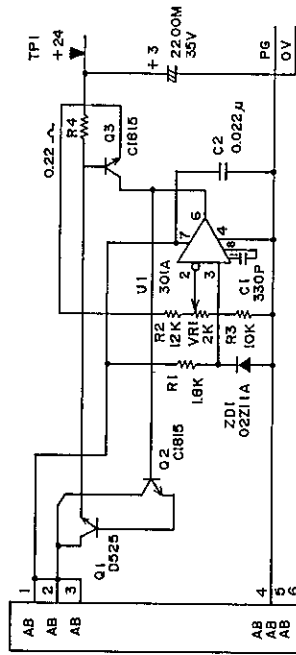
[illegible]

| SYMBOL | | | | MODEL | AD-8115 |
|--------|------|----|--------------|-------------|--------------------|
| | DATE | BY | REVISION NO. | | |
| | | | | DESCRIPTION | POWER UNIT CIRCUIT |
| | | | | STOCK NO. | |
| | | | | DRWG. NO. | |



| SYMBOL | DATE | BY | REVISION NO. | MODEL | AD-8115 |
|--------|------|----|--------------|-------------|--------------|
| | | | | DESCRIPTION | CPU-IO BOARD |
| | | | | STOCK NO. | PZ: 898A 2/2 |
| | | | | DRWG. NO. | |

1/2 J5 INTER (JO48)



U-PC2802A

J7

PRINTER

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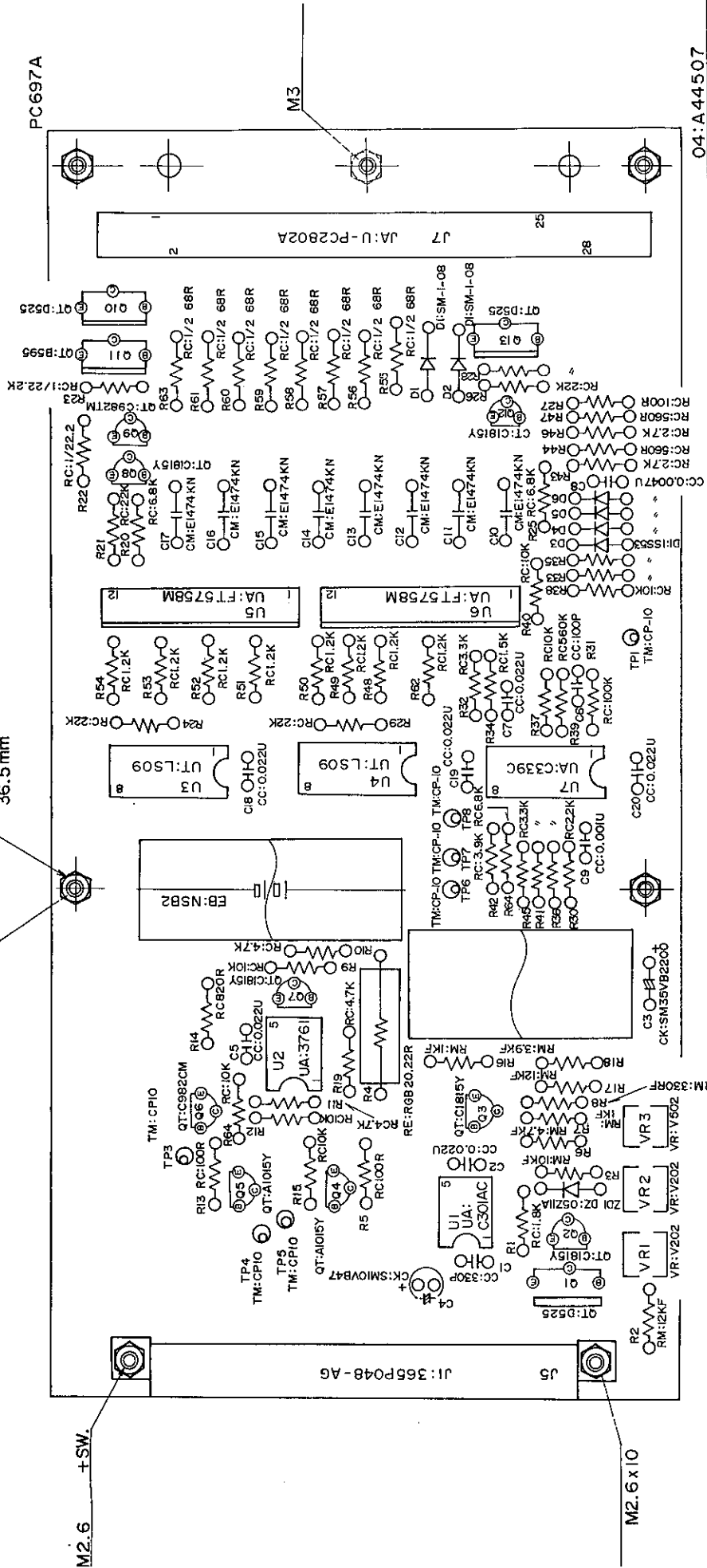
176

177

M3x6+SW

05:A40416
36.5mm

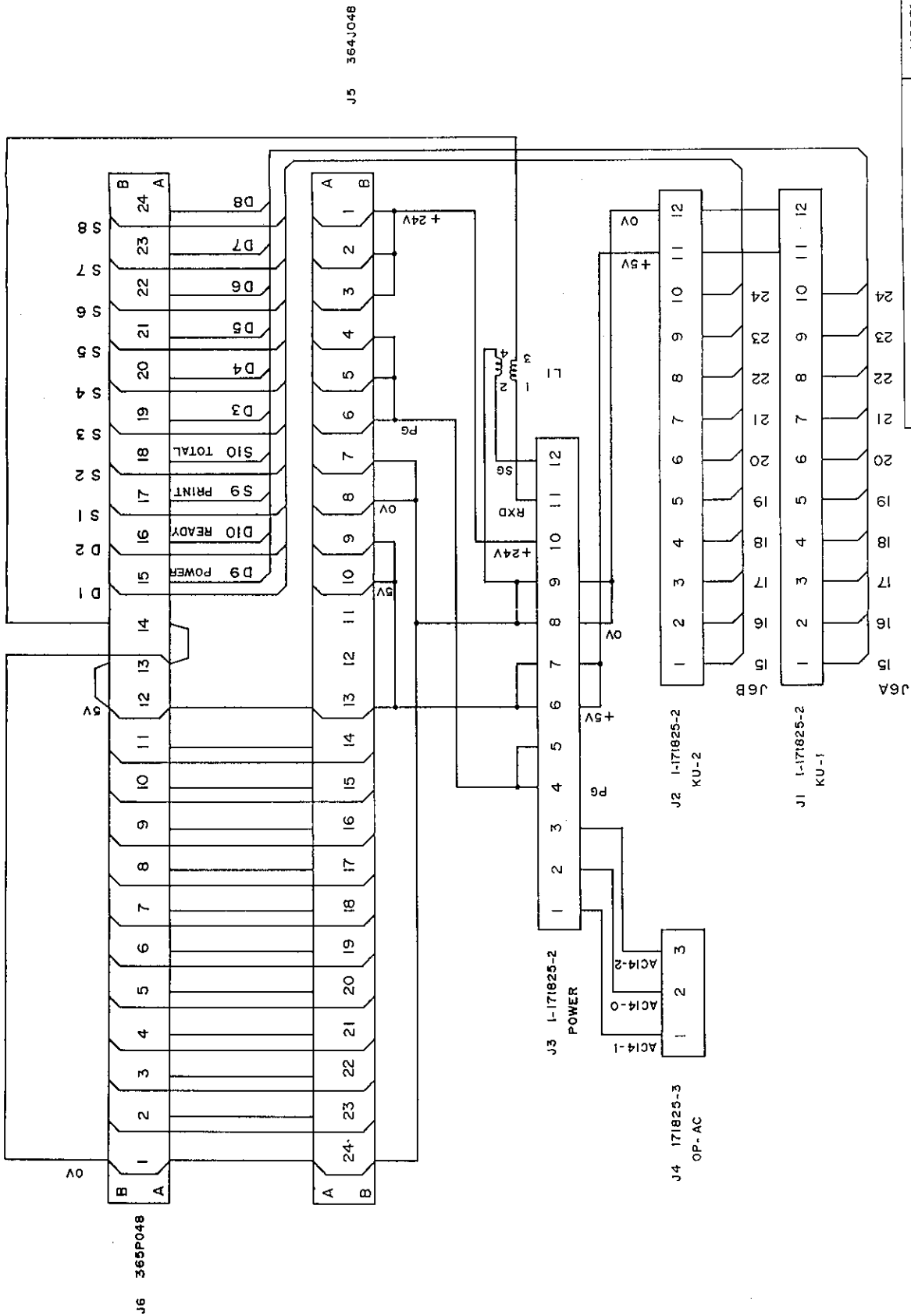
PC697A



M3x8+SW +

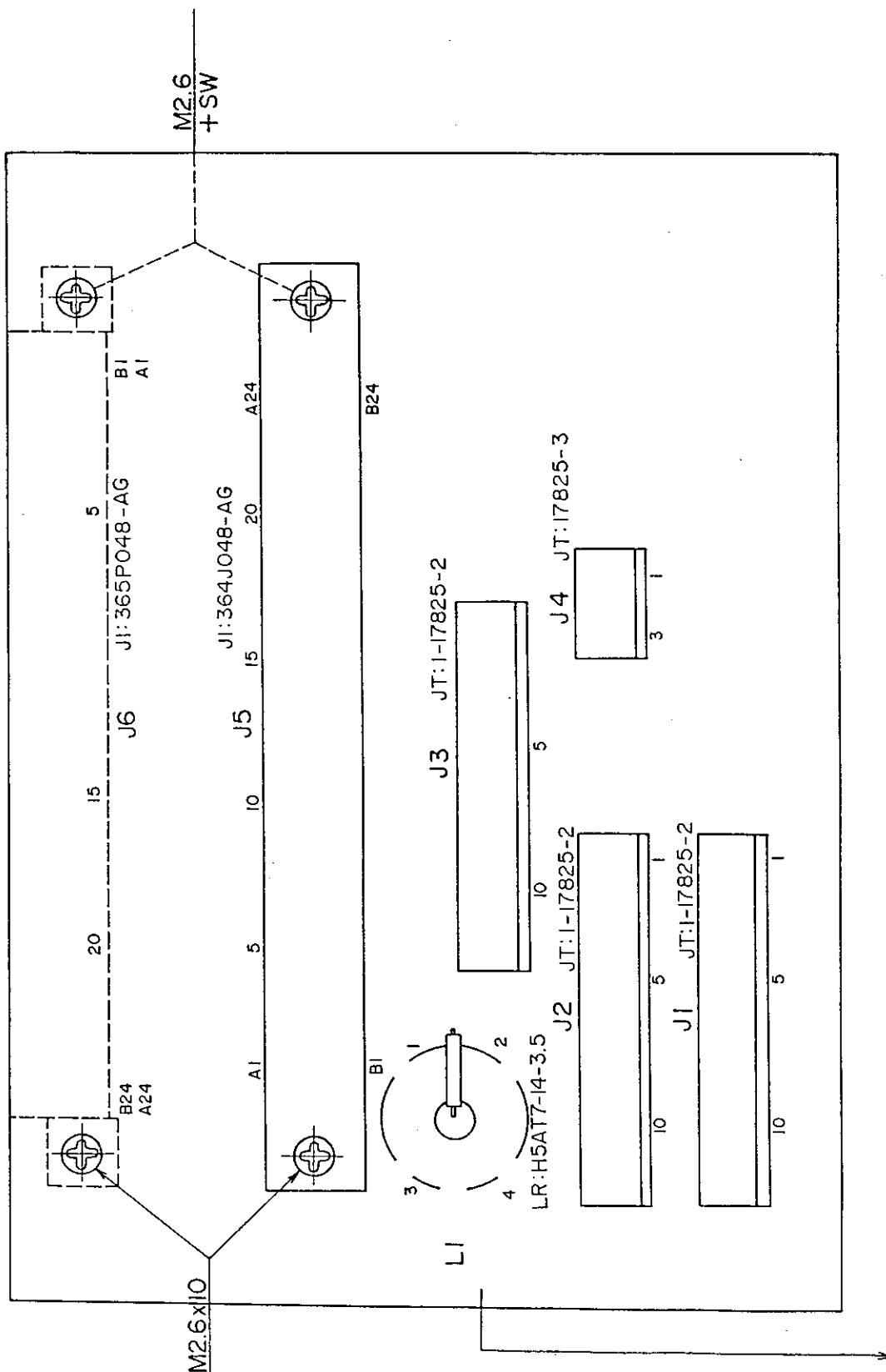
04:A44507

| SYMBOL | DATE | BY | REVISION NO. | MODEL | AD-8115 |
|--------|------|----|--------------|---------------|---------------|
| | | | | DESCRIPTION | POWER SUPPLY |
| | | | | CONTROL BOARD | CONTROL BOARD |
| | | | | STOCK NO. | PZ: 697 |
| | | | | DRWG. NO. | KZ3-0037 |

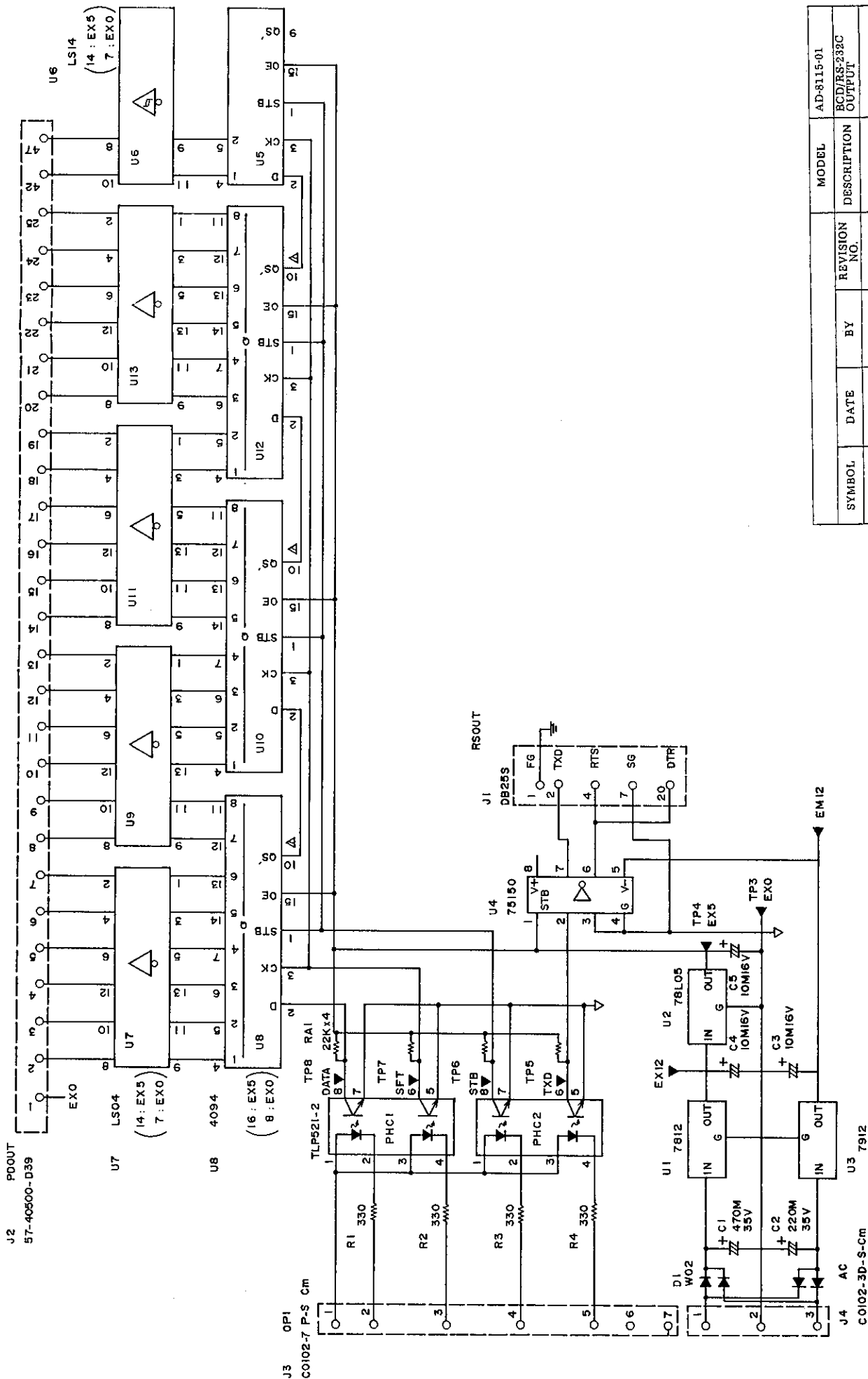


| SYMBOL | DATE | BY | REVISION NO. | MODEL | AD-8115 |
|--------|------|----|--------------|-------------|--------------|
| | | | | DESCRIPTION | MOTHER BOARD |
| | | | | STOCK NO. | PZ: 762 |
| | | | | DRWG. NO. | |

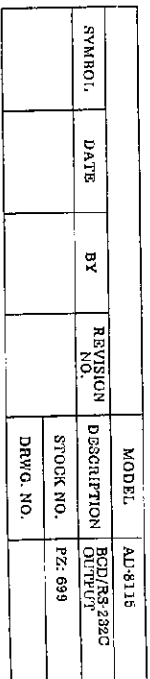
PC762



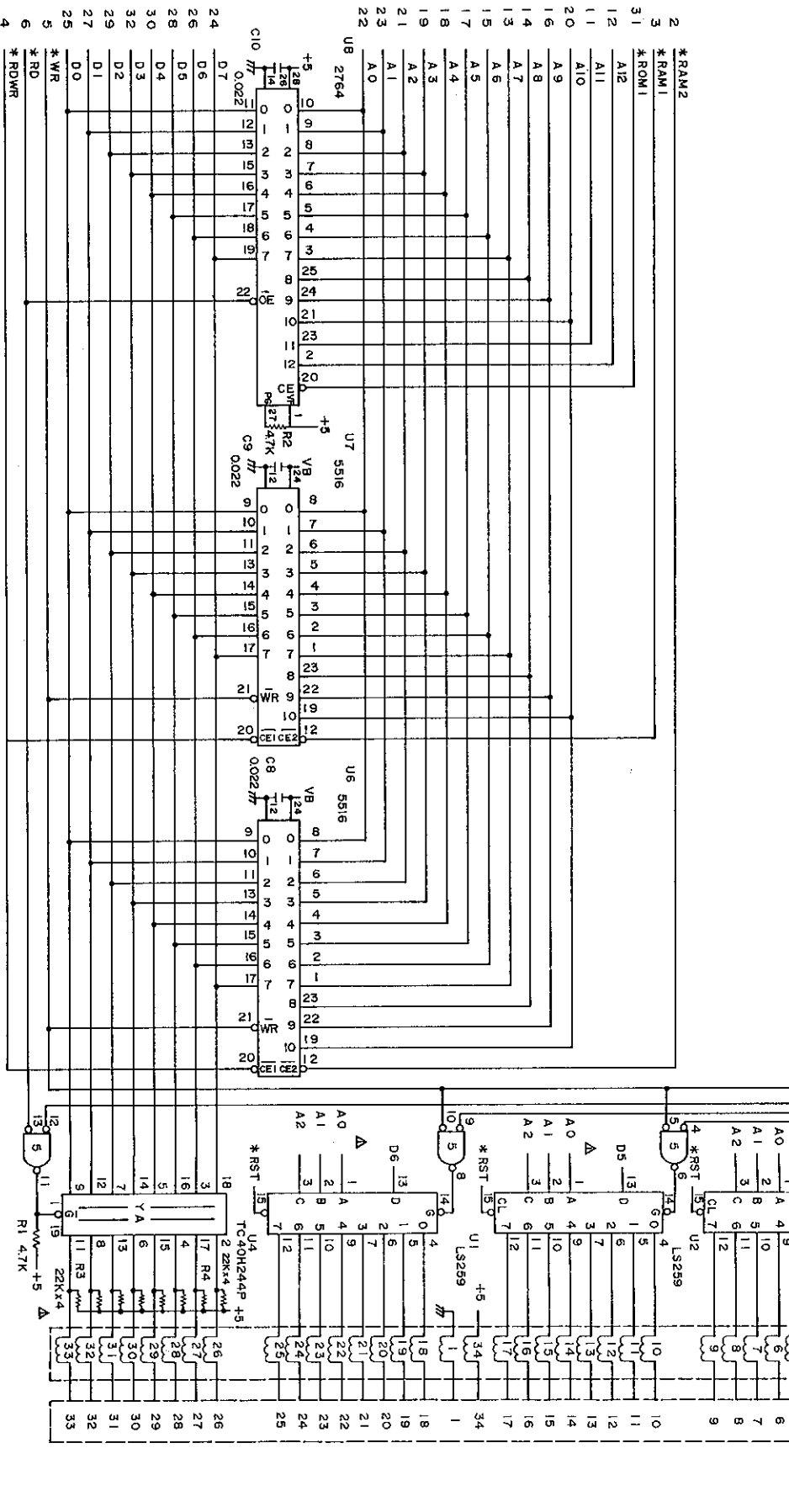
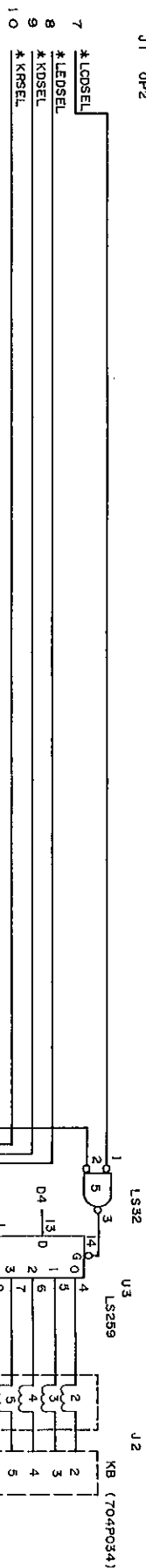
| | | | | MODEL | AD-8115 |
|--------|------|----|--------------|-------------|--------------|
| SYMBOL | DATE | BY | REVISION NO. | DESCRIPTION | MOTHER BOARD |
| | | | | STOCK NO. | PZ: 762 |
| | | | | DRWG. NO. | |



| SYMBOL | DATE | BY | REVISION NO. | MODEL | AD-8115-01 |
|--------|------|----|--------------|-------------|--------------------|
| | | | | DESCRIPTION | BCD/RS-232C OUTPUT |
| | | | | STOCK NO. | PZ: 699 |
| | | | | DRWG. NO. | |

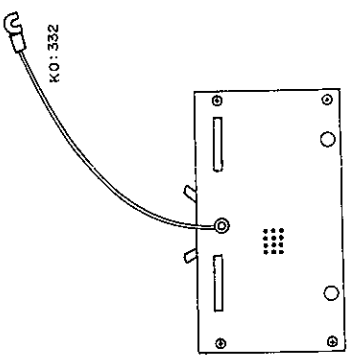
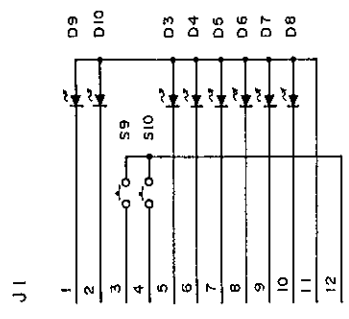
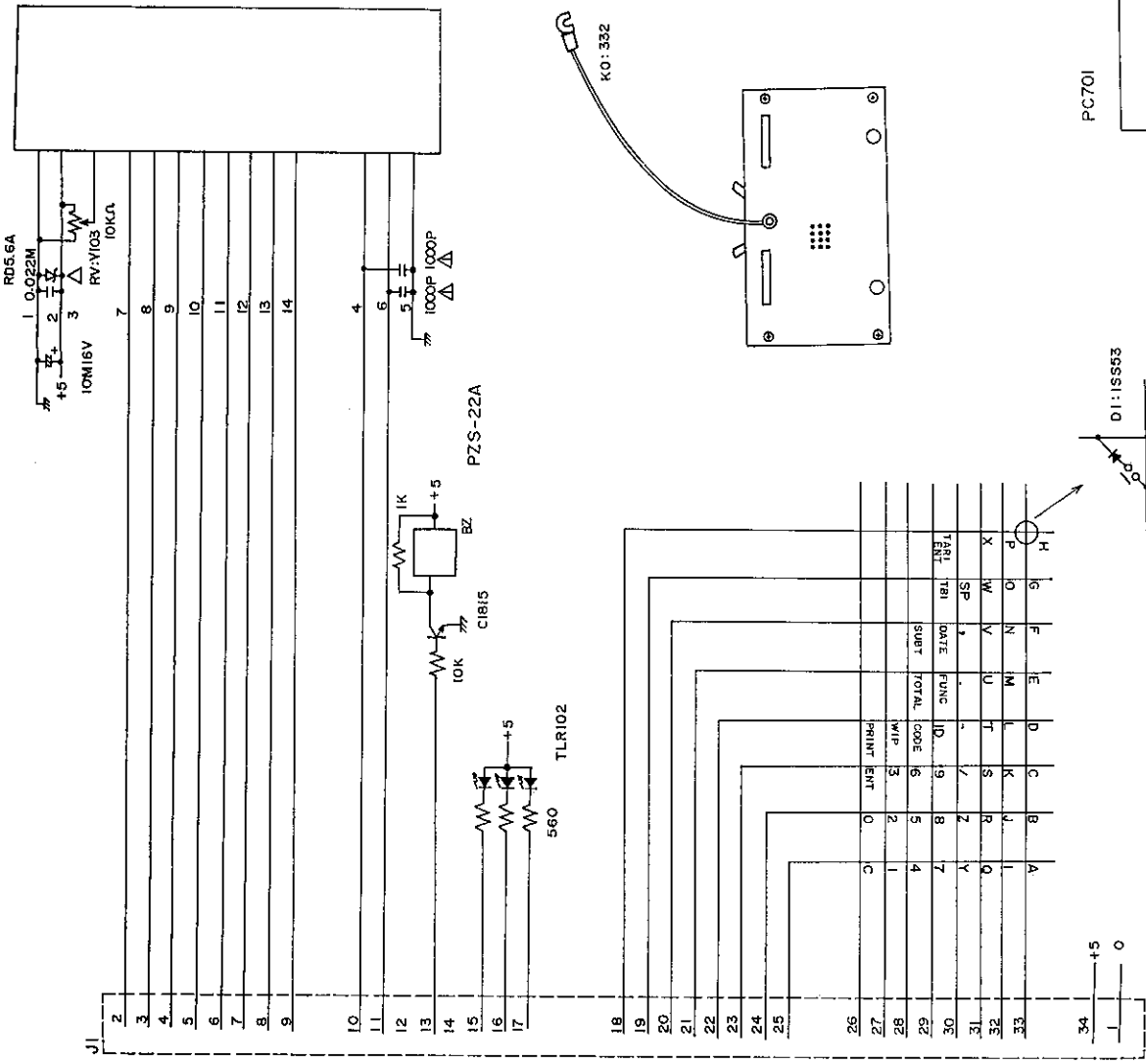


J1 OP2



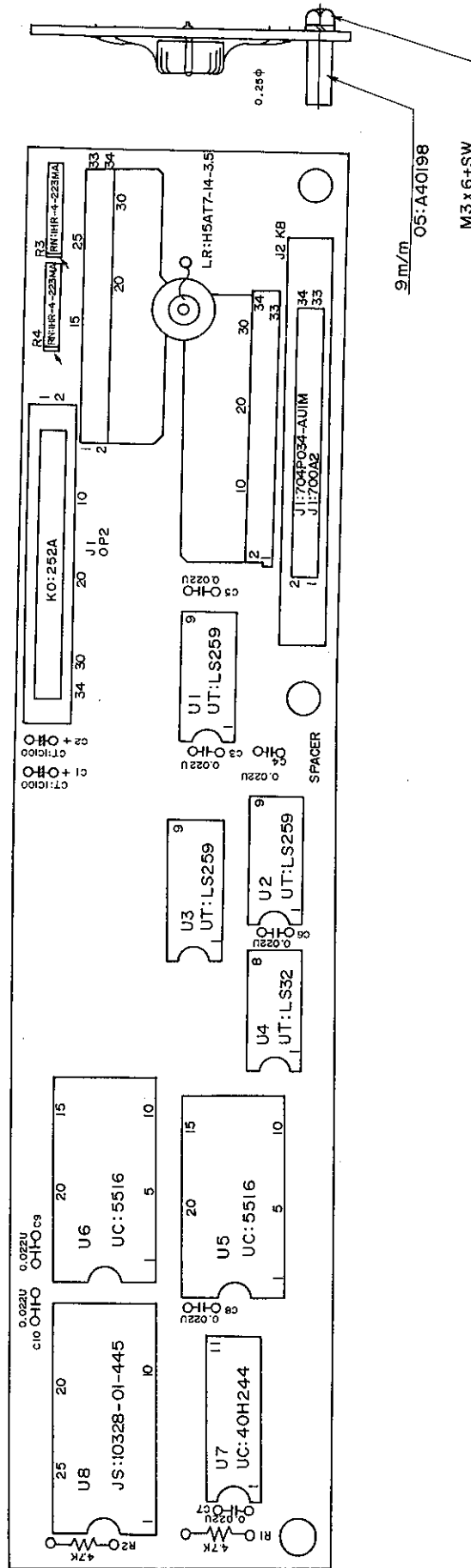
| SYMBOL | DATE | BY | REVISION NO. | MODEL | DESCRIPTION | STOCK NO. | DRWG. NO. |
|--------|------|----|--------------|------------|--------------------|-----------|-----------|
| | | | | AD-8115-02 | KEYBOARD INTERFACE | PZ-700B | |

LM020L



PC701

| SYMBOL | DATE | BY | REVISION NO. | MODEL | AD-8115-02 |
|--------|------|----|--------------|-----------|------------|
| | | | | KEYBOARD | SW: A2350B |
| | | | | STOCK NO. | |
| | | | | DRWG. NO. | |



| | | | | MODEL | AD-8115-02 |
|--------|------|----|--------------|-------------|------------------------|
| SYMBOL | DATE | BY | REVISION NO. | DESCRIPTION | KEYBOARD INTERFACE |
| | | | | STOCK NO. | PZ: 700B |
| | | | | DRWG. NO. | KZ ₁ -00249 |