

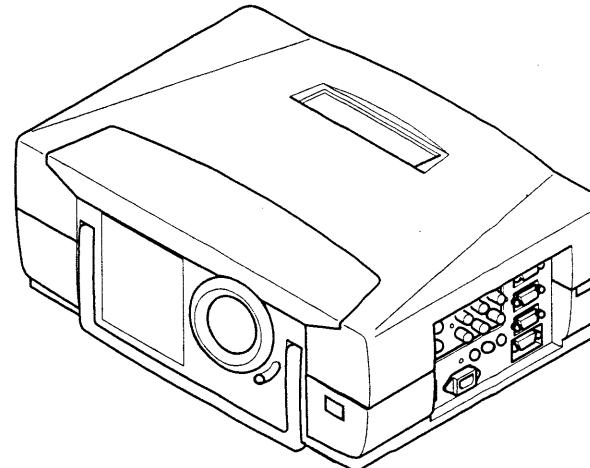
HITACHI

YK

No. 0493E

CP-L850WX
CP-L850E

● SERVICE MANUAL



Outline

Compared with CP-L850W/E, the main difference is the optical engine, which has improved image quality (uniformity) by redesigning the illumination system.
Some adjustments are different too, so read this manual.

Caution

Be sure to read this manual before servicing. To assure safety from fire, electric shock, injury, harmful radiation and materials, various measures are provided in this Hitachi liquid crystal projector. Be sure to read cautionary items described in the manual to maintain safety before servicing.

Service Warning

1. When replace the lamp, to avoid burns to your fingers. The lamp becomes too hot.
2. Never touch the lamp bulb with a finger or anything else. Never drop it or give it a shock. They may cause bursting of the bulb.
3. This projector is provided with a high voltage circuit for the lamp. Do not touch the electric parts of power unit (main), when turn on the projector.
4. Do not touch the exhaust fan, during operation.
5. The LCD module ass'y is likely to be damaged. If replacing to the LCD module ass'y, do not hold the FPC of the LCD module ass'y.

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SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

Liquid Crystal Projector

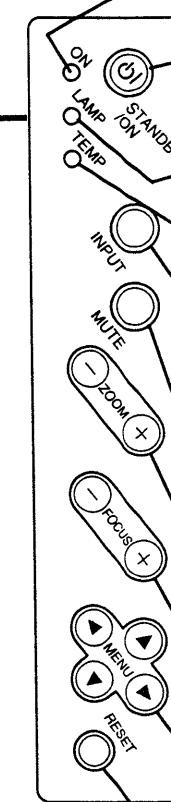
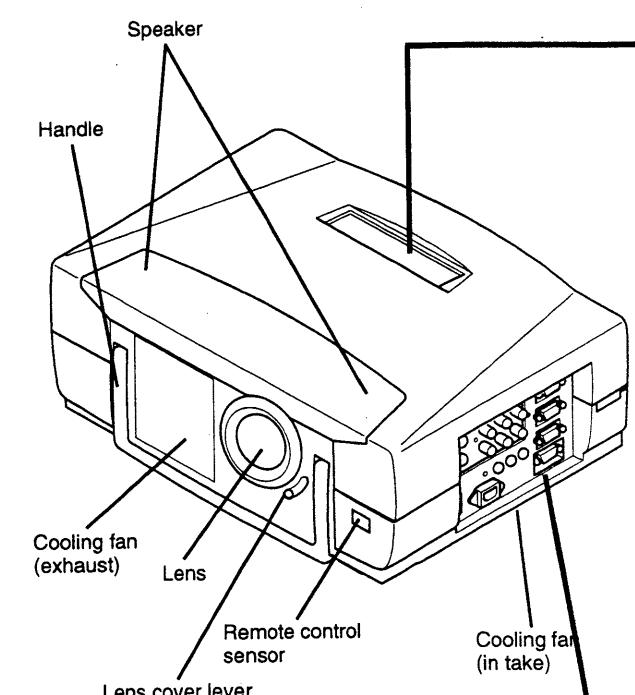
April 1999 Digital Media Systems Division

1. Features

- ▶ 1.3" polysilicon liquid crystal panel
- ▶ 260W metal halide lamp
- ▶ Video input compatible with NTSC/PAL/SECAM video signals
- ▶ RGB input compatible with IBM® PCs, Macintosh® and NEC® PC98 computer signals
- ▶ Power zoom and power focus
- ▶ 2 VIDEO IN systems, 2 RGB IN systems, and 1 RGB OUT system
- ▶ RS232C communication
- ▶ Mouse emulation

2. Specifications

| | | |
|----------------------|------------------|---|
| Liquid crystal panel | Drive system | TFT active matrix |
| | Panel size | 1.3inches |
| | Number of pixels | 800 (H) x 600 (V) |
| Lamp | | Metal halide lamp 260W |
| Video input | System | NTSC, PAL or SECAM |
| | Level | Composite 1.0Vp-p (75Ω termination) Y/C Y: 1.0Vp-p (75Ω termination) C: 0.286Vp-p (NTSC burst signal, 75Ω termination) 0.3Vp-p (PAL/SECAM burst signal, 75Ω termination) |
| RGB input / output | Video signal | Analog RGB input 0.7Vp-p (75Ω termination) |
| | Sync signal | H/V separate or H/V composite, TTL level |
| Audio | Input | 200mVrms, 20kΩ or less |
| | Output | 0~200mVrms, 1kΩ |
| Speaker output | | 2W + 2W (stereo) |
| Power supply | | AC100~120V/5A, AC220~240V/2.2A (50/60Hz) |
| Power consumption | | 370W |
| Dimensions | | 404 (W) x 146 (H) x 307 (D) mm |
| Weight | | 7.9kg |
| Temperature range | | Operation : 0~35°C Storage : -20~60°C |
| Accessories | | Remote control1 Batteries AA (or R6P)2 Power cord3 Stereo mini cable1 MAC adapter1 VGA signal cable1 Video/Audio cable1 Mouse cable3 S-Video cable1 |

3. Names of each part**Main unit****Operation section****ON indicator**

This blinks in the standby mode and lights in the operation mode.

STANDBY/ON button

Power ON/OFF button.
OFF sets the unit in standby mode.

LAMP indicator

This lights when the lamp does not light.

TEMP indicator

This lights when temperature inside the projector is too high.

INPUT button

To select the input source.

RGB1 → RGB2 → VIDEO1 → VIDEO2

MUTE button**ZOOM button**

Adjusts picture size.

FOCUS button

Adjusts focus.

MENU button

Picture adjustments.

RESET button

Resets unit to factory settings.

Input terminal section**VIDEO input terminal**

S-VIDEO input terminal
Mini DIN-4pin connector (1/2)

VIDEO input terminal
RCA Jack (1/2)

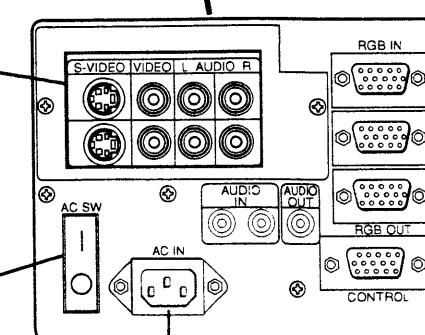
AUDIO L/R input terminal
RCA Jack (1/2)

MAIN POWER switch

Main power ON/OFF switch.

○ : OFF

□ : ON

**RGB input terminal**

RGB input terminal
D-sub 15pin shrink terminal (1/2)
AUDIO input terminal
Stereo mini jack (1/2)

RGB output terminal

RGB output terminal
D-sub 15pin shrink terminal
AUDIO output terminal (RGB/VIDEO)
Stereo mini jack

CONTROL terminal

D-sub 15pin terminal

AC inlet with filter

Connect the provided power supply cord.

● Remote control transmitter

STANDBY / ON button
Power ON/OFF button.
OFF sets the unit in standby mode.

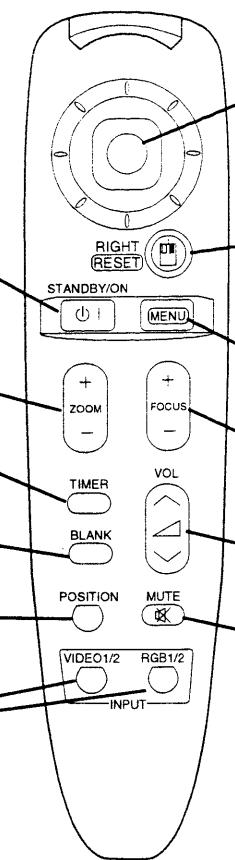
ZOOM button
Adjusts picture size.

TIMER ON / OFF button
Displays or removes the time setting
menu item TIMER.

BLANK ON / OFF button
BLANK ON is removed picture.

POSITION button
Removes picture position with MENU
STICK SWITCH.

INPUT SELECT button
Selects the input source.

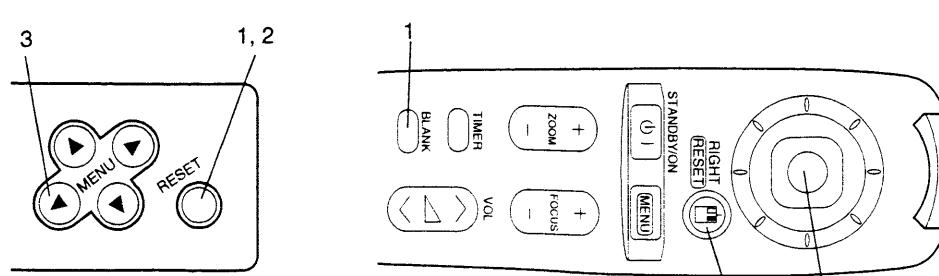


Function for service

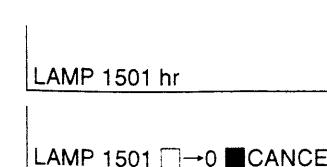
| Function | Operation |
|--|--|
| Displayed the operating time of the lamp | Press the RESET button of the projector or the TIMER button of the remote control, for 3 seconds. |
| Reset the operating time of the lamp | Press the RESET button of the projector or the remote control, for 3 seconds. (During be displayed the operating time of the lamp.) |
| Displayed the operating time of the projector | Press the MUTE button of the projector or the remote control, for 3 seconds. (During be displayed the operating time of the lamp.) |
| When replacing the lamp, Reset the operating time of lamp. | |

Reset the lamp timer :

Please carry out the following operation within 10 minutes from power on, if you replaced the lamp after 2,000 hours.



- 1) Press the RESET button on projector for 3 seconds or remote control TIMER button for 3 seconds and display the total lamp used time.
- 2) Press the RESET button during displaying the lamp used time.
- 3) Select the "0" on the screen using the MENU (◀) button or MENU STICK SWITCH.



Message table

On-screen display

The following messages are displayed on the screen.

| | |
|---|--|
| CHANGE THE LAMP | Lamp has 1,900 hours on it and may need to be changed. |
| "CHANGE THE LAMP" "CALL A MAINTENANCE PERSON." "THE POWER WILL TURN OFF AFTER 20 Hr." | Lamp has 1,980 hours on it. See P.4 "Reset the lamp timer" |
| Blinking of "CHANGE THE LAMP" | When the lamp has 2,000 hours or more on it, the message will blink, and the power will turn off after 10 minutes. |
| NO INPUT IS DETECTED | Signal is not input. |
| SYNC IS OUT OF RANGE | The horizontal frequency of the input signal exceeds the range of the projector, it cannot be displayed. |

Indicator display

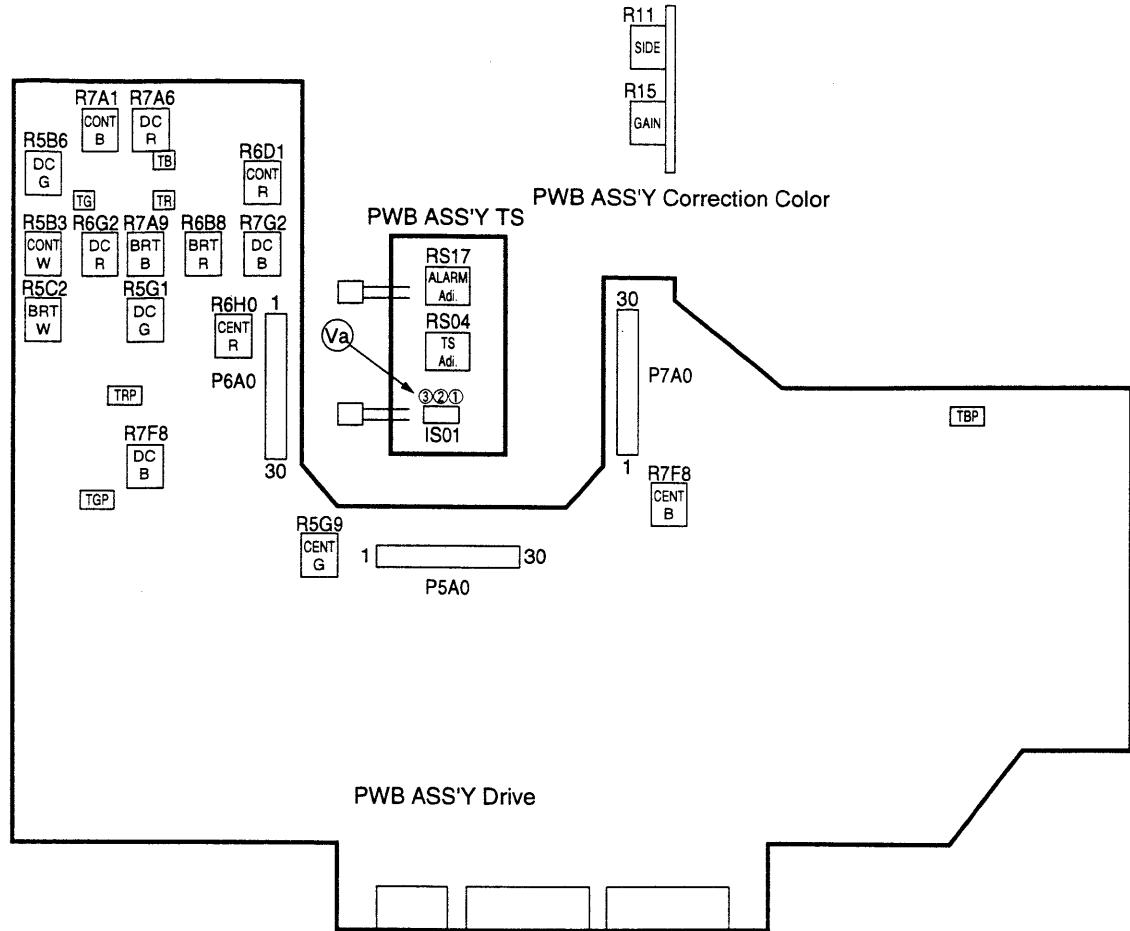
The ON indicator, LAMP indicator and TEMP indicator will light or blink in the following cases.

| | Indicator status | Meaning | Remedy |
|----------------|------------------|---------------------------------------|---|
| ON indicator | Lights orange | Standby mode | |
| | Blinks green | During warming up | |
| | Lights green | During operation | |
| | Blinks orange | During cooling down | |
| LAMP indicator | Lights red | Lamp cannot light | Cool projector by power off for 20 minutes. |
| | Blinks red | Lamp removed or imperfectly assembled | |
| TEMP indicator | Lights red | Temperature inside too high | Correctly reinstall so as not to block ventilation holes. |
| | Blinks red | Cooling fan accident | call a maintenance person. |

*When the LAMP indicator lights, turn the power off. If the problem cannot be recovered, contact your dealer.

4. Adjustment

4 - 1 Position to be adjusted



4 - 2 White balance adjustment

Preparations for adjustment

1. Setting of condition

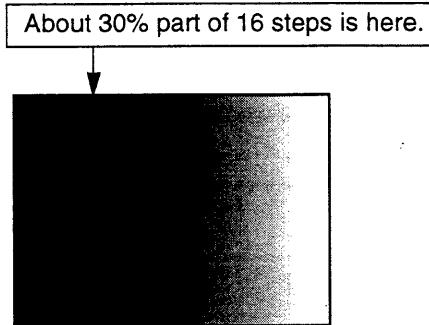
- ① Apply heat-running for 10 minutes or more before adjustment.
- ② Project 40 inches size image with the "+" zoom button set to maximum.

2. Adjustment output DC level of video AMP circuit.

- ① Apply heat-running for 10 minutes or more before adjustment.
- ② No input signal.
- ③ Adjust R5B6 so that voltage at TG test-point of I5A0 is $6.0 \pm 0.05V$.
- ④ Adjust R7A6 so that voltage at TR test-point of I6A0 is $6.0 \pm 0.05V$.
- ⑤ Adjust R7G2 so that voltage at TB test-point of I7A0 is $6.0 \pm 0.05V$.
- ⑥ Adjust R6G2 so that voltage at TRP test-point of I6A5 is $6.0 \pm 0.05V$.
- ⑦ Adjust R5G1 so that voltage at TGP test-point of I5A4 is $6.0 \pm 0.05V$.
- ⑧ Adjust R7E8 so that voltage at TBP test-point of I7A3 is $6.0 \pm 0.05V$.
- ⑨ Press the RESET button of the remote control transmitter to set picture adjustment to NORMAL.

3. Adjustment output Center level of video AMP circuit.
Refer to the attached drawing.

- ① Input 16 steps monochrome green with a timing signal of SVGA VESA(60).
Adjust R5G9 so that brightness at about 30% part of 16 steps is the darkest.
- ② Input 16 steps monochrome red with a timing signal of SVGA VESA(60).
Adjust R6H0 so that brightness at about 30% part of 16 steps is the darkest.



Adjustment Procedure

1. Adjustment of color shading correction

- ① Apply heat-running for 10 minutes or more before adjustment.
- ② Input gray pattern at $0.35V_{p-p}$ with a timing signal of SVGA VESA(60).

2. Adjustment of white balance.

- ① Input 16 steps monochrome green at $0.7V_{p-p}$ with a timing signal of SVGA VESA(60).
- ② Set "CONTRAST" of MENU to +5 steps from center.
- ③ Adjust R5B3(W SUB CONTRAST) and R5C2(W SUB BRIGHT) so that both sides signal level is almost the same but slightly different by visual inspection. (Between 1st step and 2nd step. Between 15th step and 16th step.)
If this readjustment is needed, preset R11(SIDE) and R15(GAIN) at the clockwise end at first.
- ④ Input white pattern at $0.7V_{p-p}$ with a timing signal at SVGA VESA(60).
- ⑤ Set "BRIGHT" and "CONTRAST" of MENU to maximum.
- ⑥ Check the chromaticity at the center of the picture, that is $X=A$, $Y=B$.
- ⑦ Set "BRIGHT" and "CONTRAST" of MENU to center.
- ⑧ Input white pattern at $0.35V_{p-p}$ with a timing signal at SVGA VESA(60).
- ⑨ Set R11(SIDE) to the clockwise end.
- ⑩ Set R15(GAIN) to the clockwise end.
- ⑪ Adjust R15(GAIN) and R11(SIDE) so that color uniformity is best.....visual check.
R15(GAIN) is Coarse adjustment.
R11(SIDE) is Fine adjustment.
Basically the clockwise end is best setting on R11(SIDE).
- ⑫ Adjust R6B8(R SUB BRIGHT) and R7A9(B SUB BRIGHT) so that the chromaticity at the center of the picture is $X=A-0.030 \pm 0.01$, $Y=B-0.050 \pm 0.01$ (middle-brightness white balance) using Minolta CL-100.
- ⑬ Repeat ⑪ to ⑫ and adjust middle-brightness and high-brightness white balance.

4 - 3 Convergence adjustment

Preparations for adjustment

- ① Apply heat-running for 10 minutes or more before adjustment.
- ② Input a cross-hatch signal to the RGB input terminal with a timing signal of SVGA VESA (60).
- ③ Project about a 40" size image and adjust H.PHASE so that the vertical lines of cross-hatch pattern are seen most clear.
- ④ Loosen 2 screws ② of both the R and B panel's metal fittings. (See Figs.4 - 1 and 4 - 2.)

(Note) Do not loosen screws ② too much. If they are loosened too much, the convergence may drift when they are tightened.

(Note) Exclusive tools are required to adjust convergence.

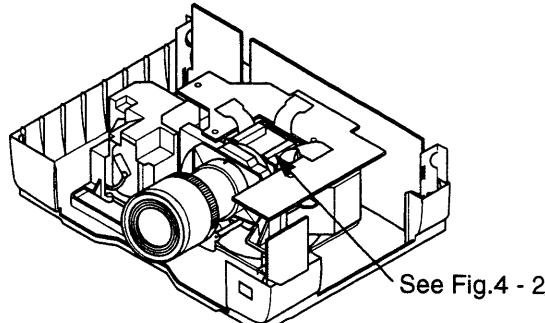


Fig.4 - 1

Adjustment procedure

- ① Regarding the G panel as standard, adjust the convergence at the picture center of the R panel using ⑥ for the vertical direction, ⑦ for the horizontal direction.
- ② Adjust the convergence at the edge of the picture using ④.
- ③ Then, regarding the G panel as standard, adjust the convergence of B panel in the same procedure as ① and ②.
- ④ Repeat steps ① to ③ and adjust so that convergence of whole picture satisfy the following values.

| | Adjustment value |
|------------|------------------|
| Horizontal | ±1dot |
| Vertical | ±1dot |

G is a standard

- ⑤ Tighten 4 screws to fix panels.

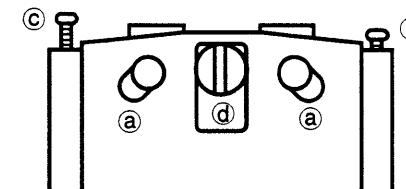


Fig.4 - 2

4 - 4 Sensor adjustment

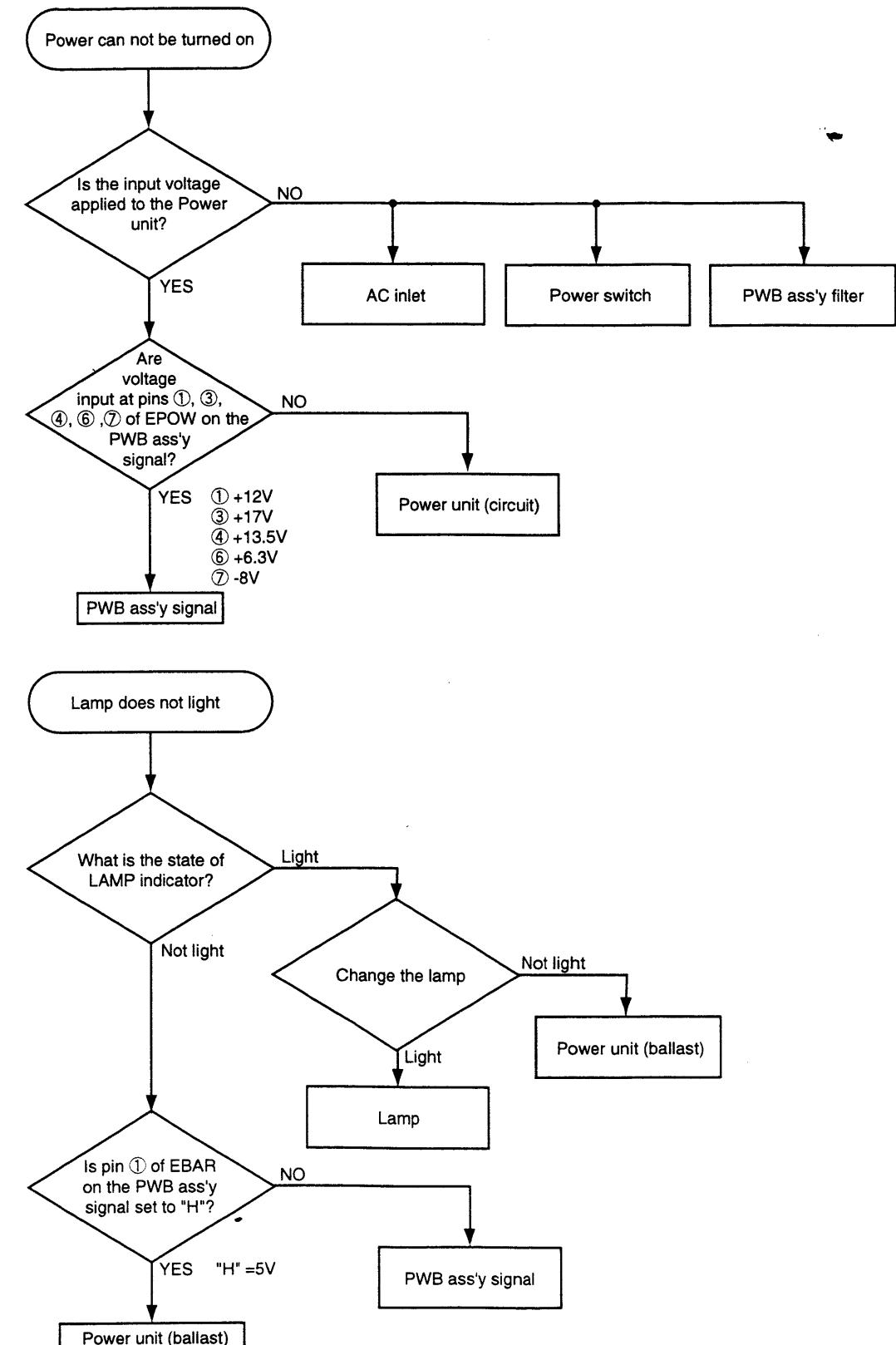
Preparations for adjustment

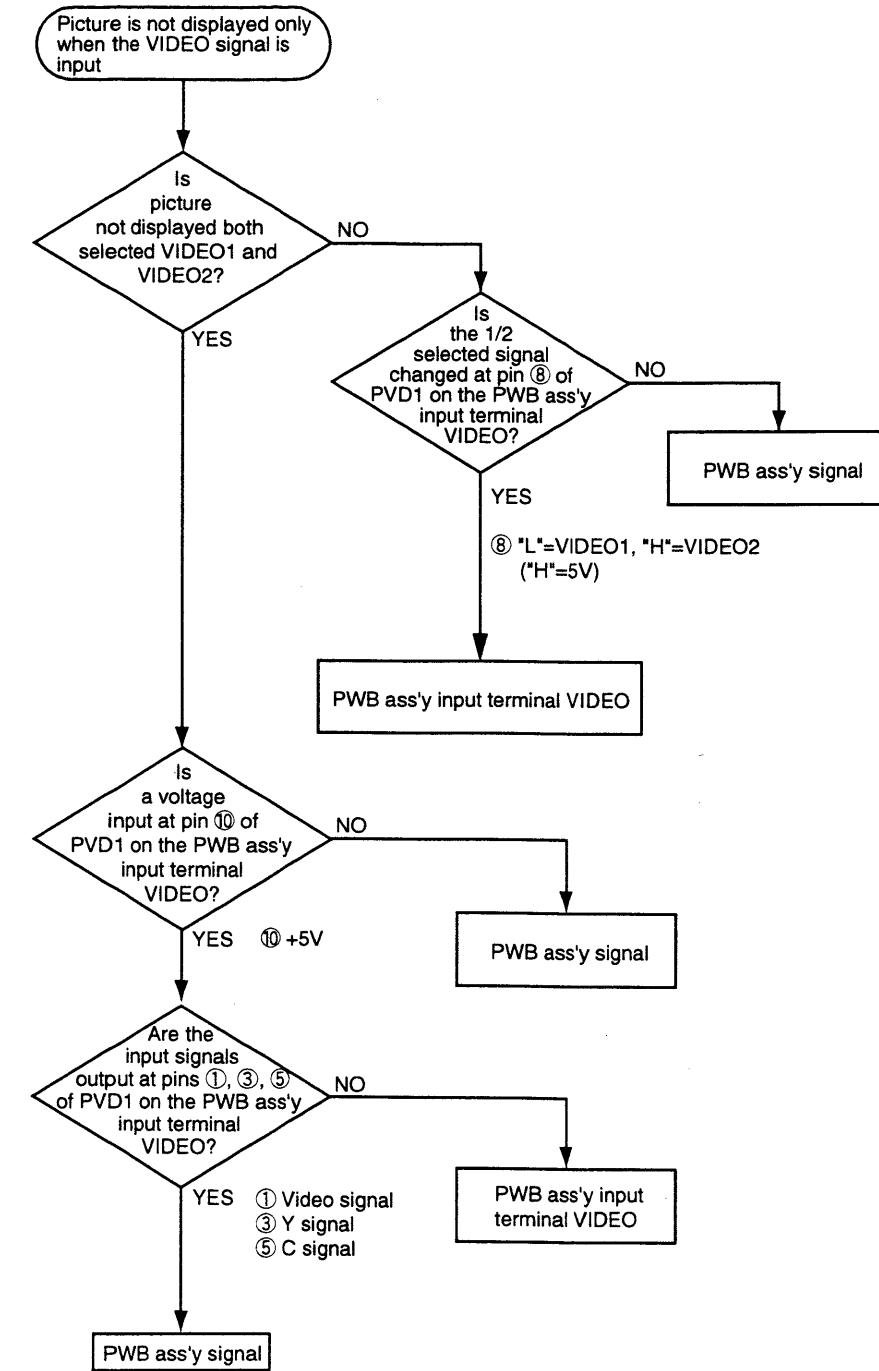
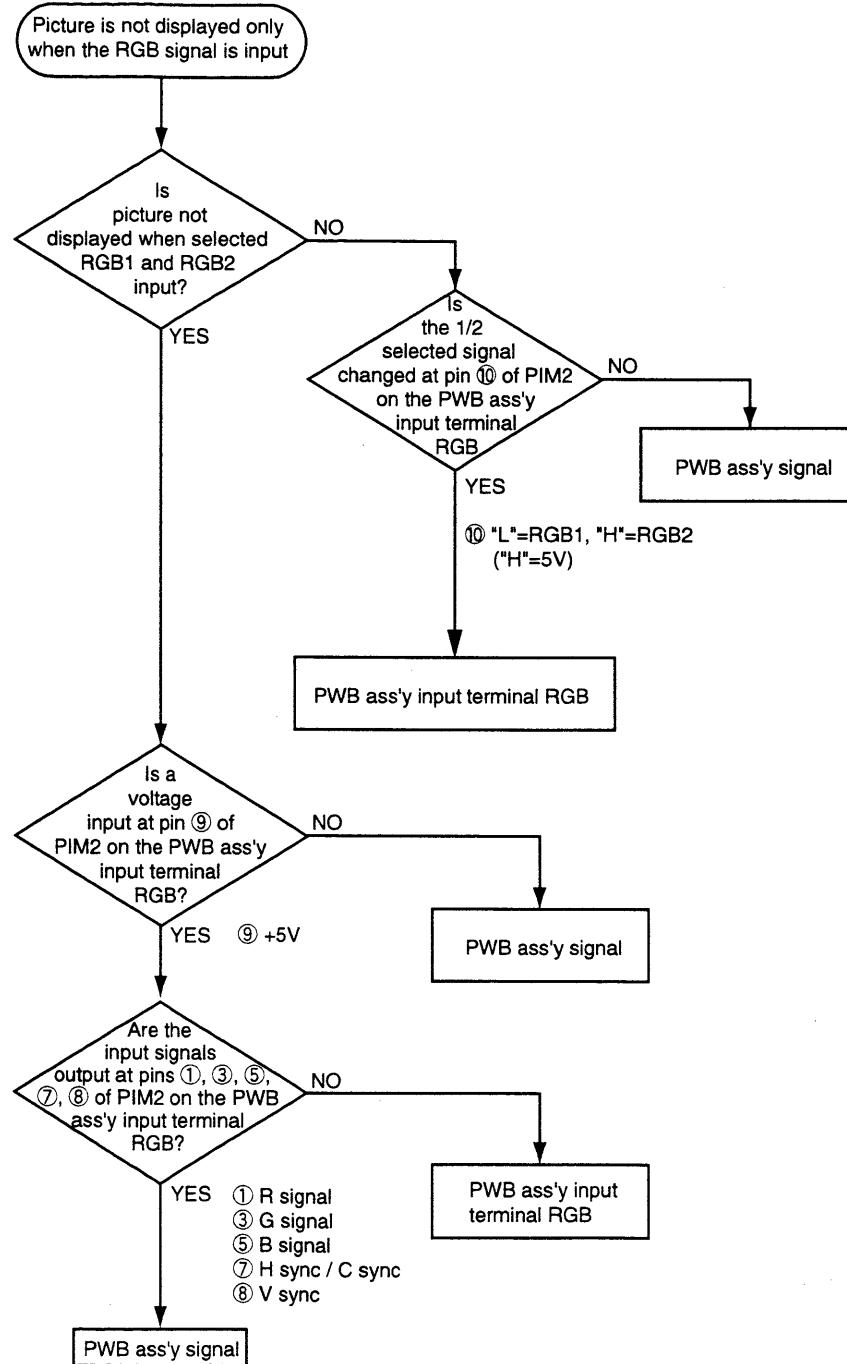
- ① Apply heat-running for 10 minutes or more before adjustment.

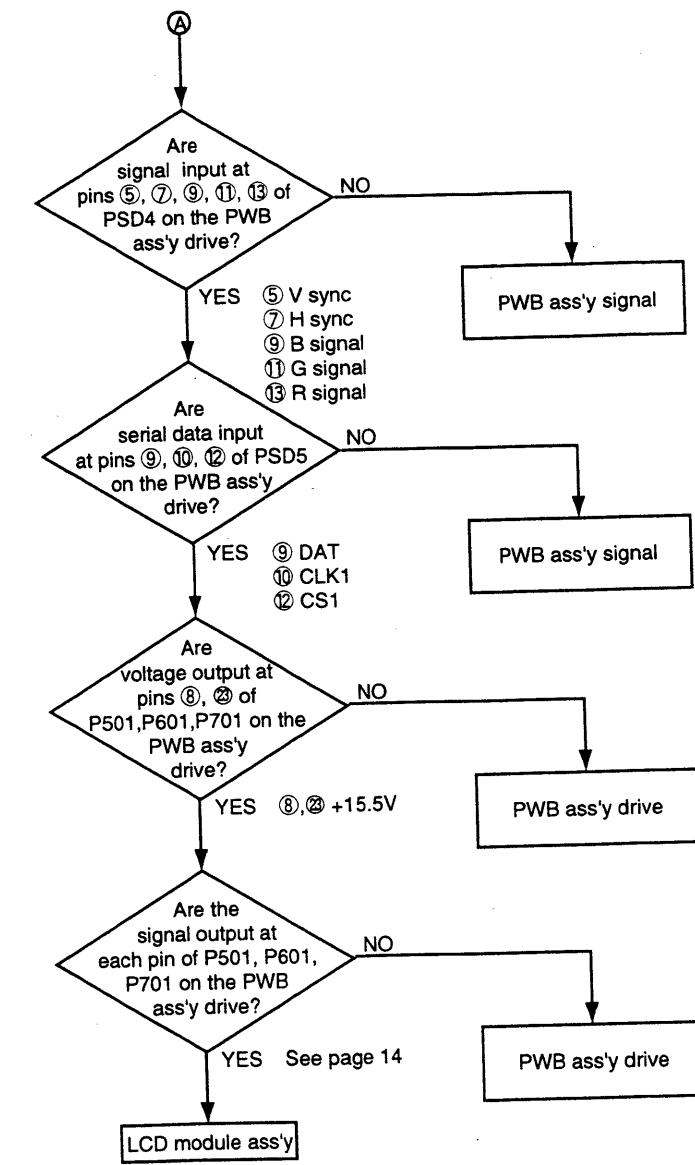
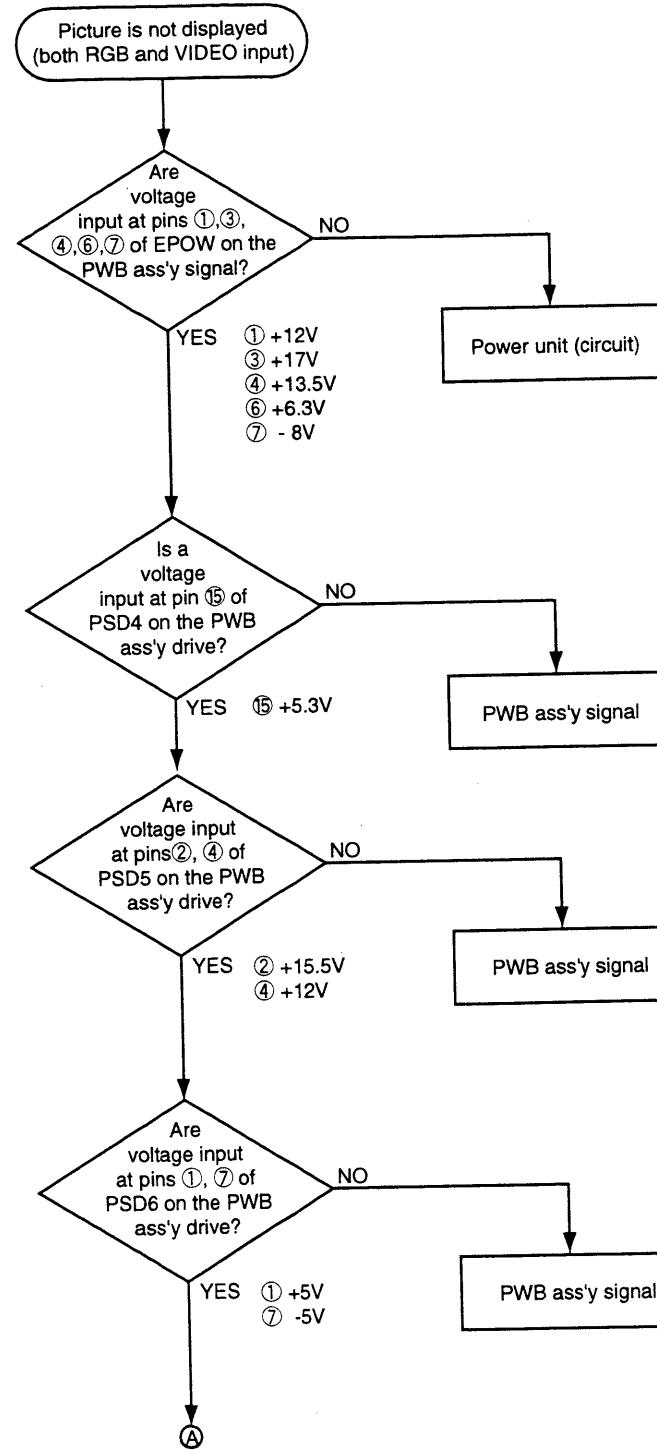
Adjustment Procedure

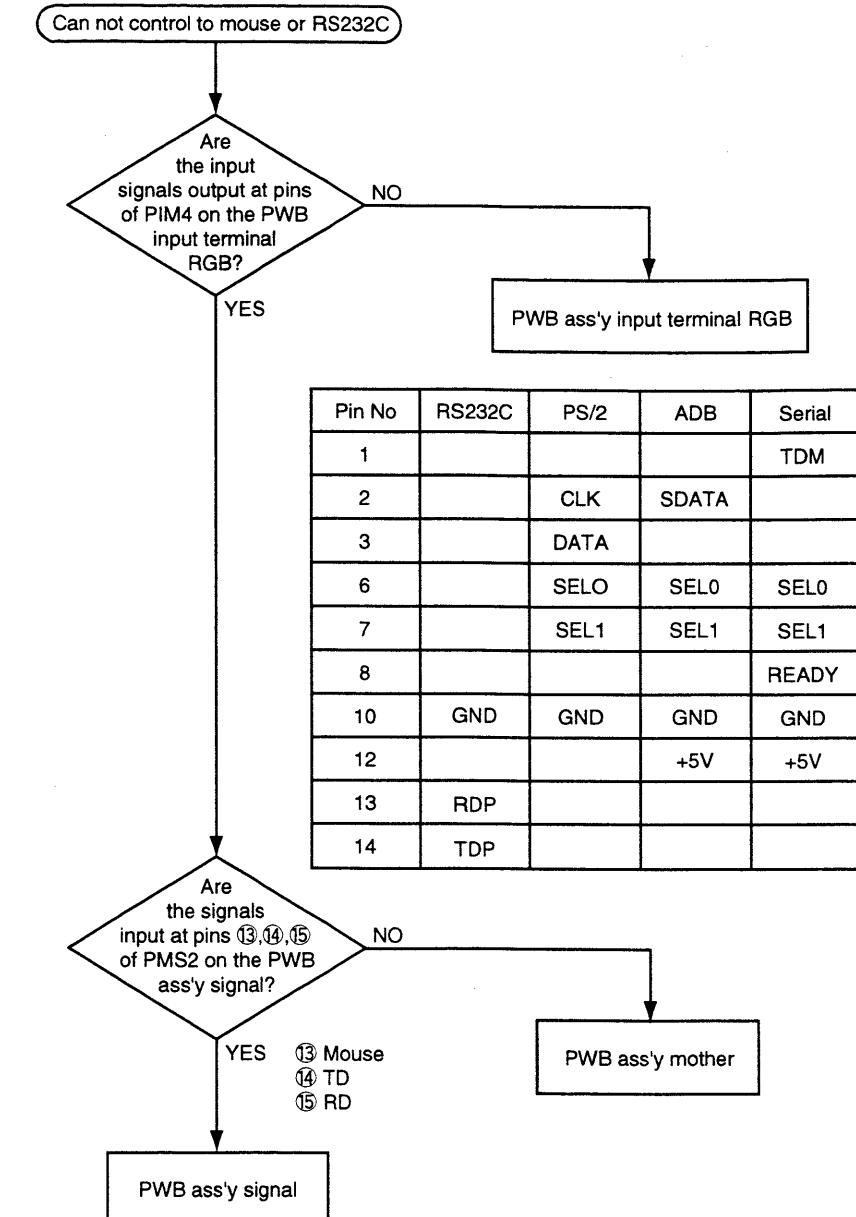
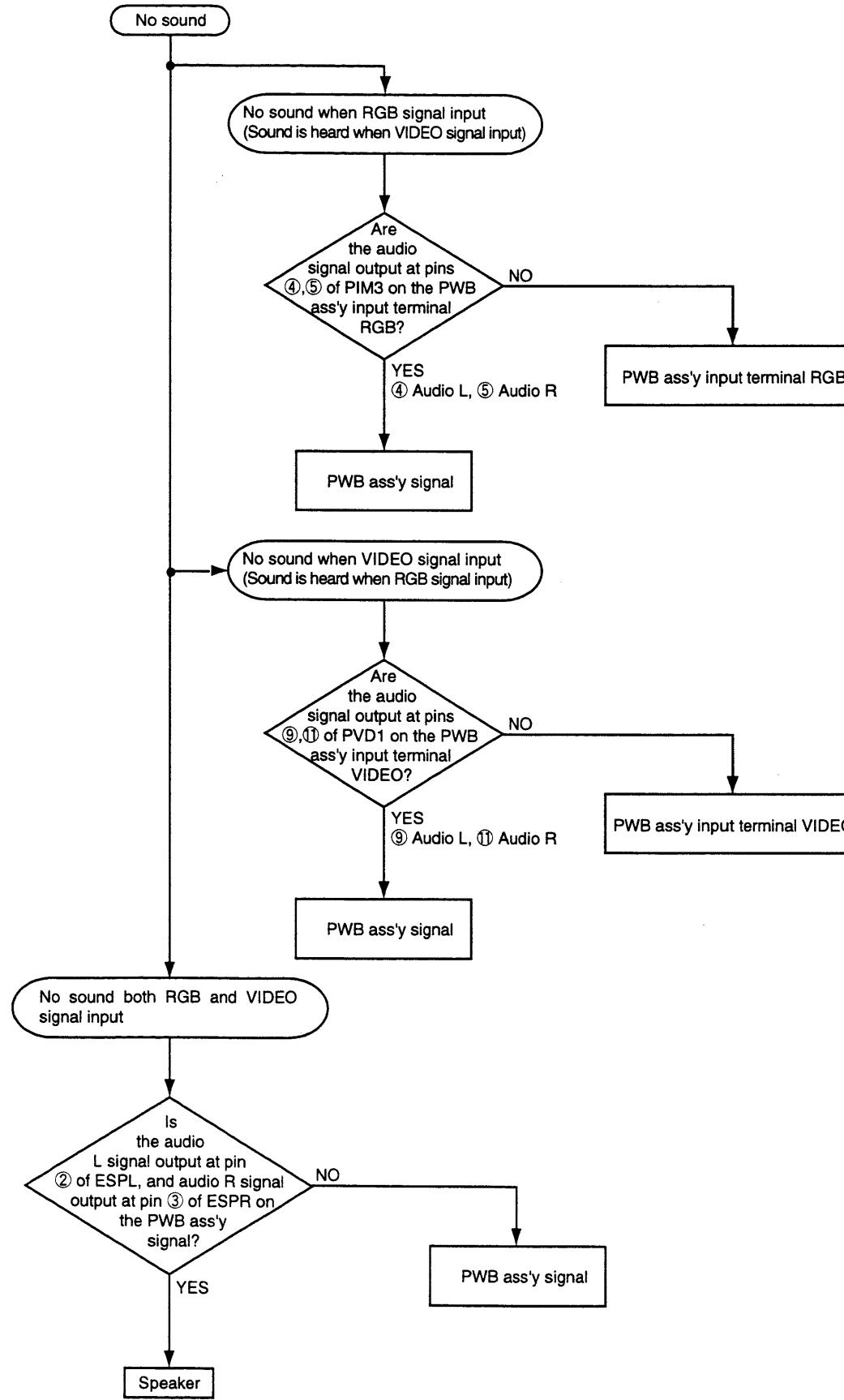
- ① Set RS17(ALARM ADJ) and RS04(TS ADJ) to mechanical center.
- ② Turn RS04(TS ADJ) to the clockwise a quarter.
- ③ Measure the point (Va).
- ④ Adjust RS04(TS ADJ) so that IS01(1) is ((Va) - 20mV ± 2mV).

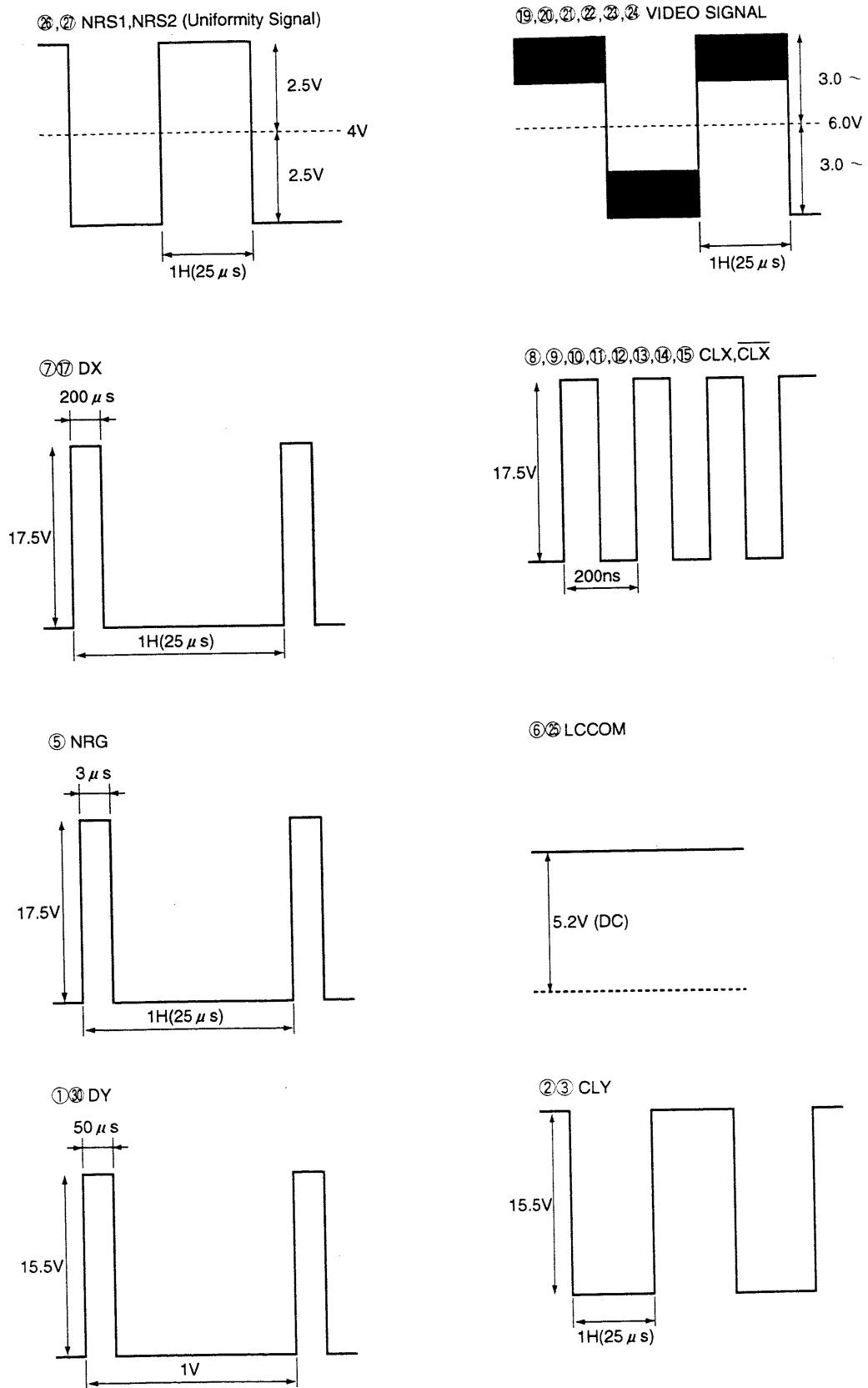
5. Troubleshooting





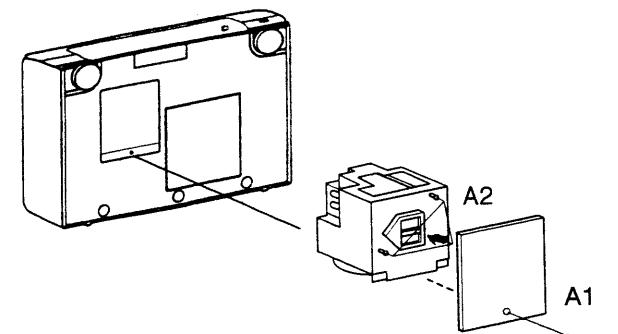




Signal waveforms of P501, P601 and P701 (Input signal is VGA3)**6. Service points****6 - 1 Removing the lamp**

1. Loosen screw A1 and remove the lamp cover.
2. Loosen 3 screws A2 and remove the lamp.
3. After change the new lamp, reset the operating time of the lamp.

Caution : Lamp becomes too hot. To avoid burns to your finger.
Turn the power off and let the projector cool.

**6 - 2 Removing the PWB ass'y drive, the lens prism unit, the LCD module ass'y, The front cover ass'y and exhaust fan, the handle the PWB ass'y correction color the PWB ass'y TS. (Fig. 6 - 2)****(1) Removing the PWB ass'y drive.**

1. Remove 5 screws B1 and remove the upper case ass'y and disconnect the operation panel connector.
2. Remove 7 screws B0 and remove the upper shield case.
3. Disconnect 2 connector for speaker from PWB ass'y signal.
4. Release the lock of the connector housing and disconnect the FPC of the LCD module ass'y.
5. Remove 4 screws B2 and disconnect 3 connector and remove the PWB ass'y drive.

(2) Removing the lens prism unit.

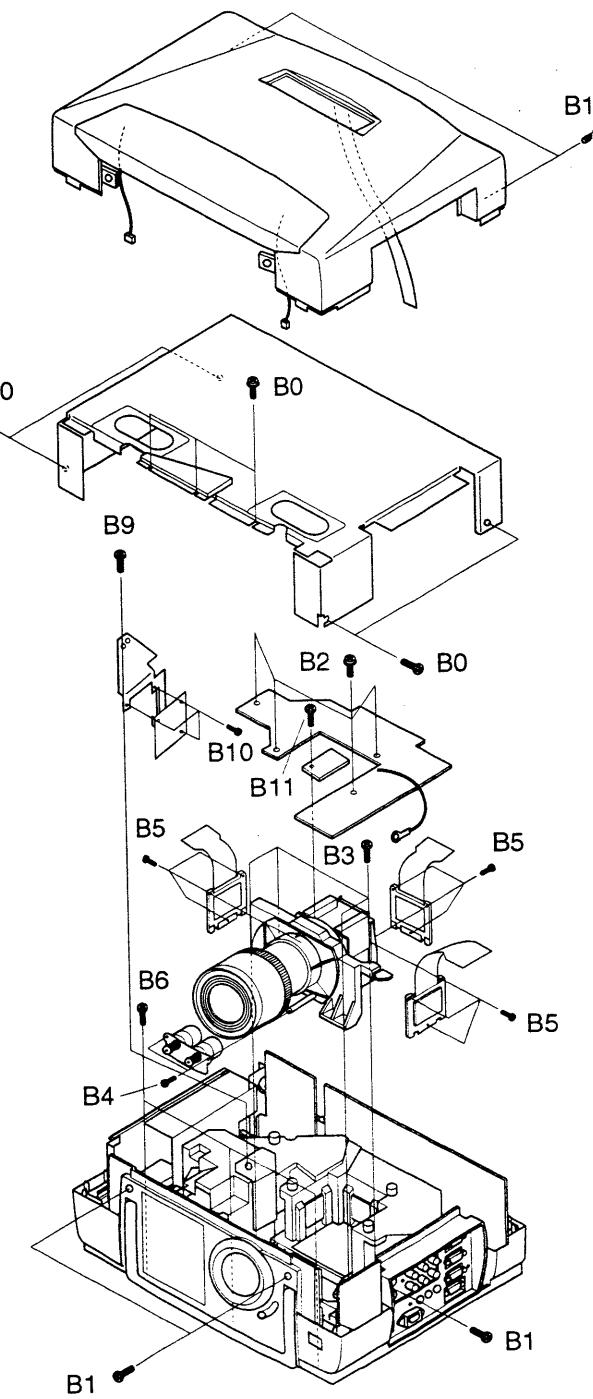
1. Remove the PWB ass'y drive.
(Refer to Item 6 - 2 (1).)
2. Disconnect 2 connector for motor from the PWB ass'y signal.
3. Remove 4 screws B3 and remove the lens prism unit with DC motors.
4. Remove 2 screws B4 and remove the DC motor ass'y from lens prism unit.

(3) Remove the LCD module ass'y.

1. Remove the lens prism unit with DC motor.
(Refer to steps 1 and 3 of Item 6 - 2 (2).)
2. Remove 3 screws B5 and remove the LCD module ass'y.

(4) Removing the front cover ass'y and exhaust fan.

1. Remove the lens prism unit with DC motor.
(Refer to steps 1 to 3 of Item 6 - 2 (2).)
2. Remove 3 screws B6 and remove the front cover ass'y (with exhaust fan).
3. Disconnect connector for exhaust fan from PWB ass'y signal.
4. Remove 4 screws B7 and remove the exhaust fan.



(5) Removing the lens shutter unit.

1. Remove the front cover ass'y. (Refer to Item 6 - 2 (4).)
2. Remove 4 screws B8 and remove the lens shutter unit.

(6) Removing the handle.

1. Remove the front cover ass'y. (Refer to Item 6 - 2 (4).)
2. Pull out the stick and remove the handle.

(7) Removing the PWB ass'y correction color.

1. Disconnect a connector from the PWB ass'y drive.
2. Remove a screw B9 and remove the PWB ass'y correction color with metal.
3. Remove 3 screws B10 and the PWB ass'y correction color.

(8) Removing the PWB ass'y TS.

1. Disconnect a connector from the PWB ass'y drive.
2. Remove a screw B11.

6 - 3 Removing Power unit, PWB ass'y signal, PWB ass'y input terminal.

(1) Removing the Power unit (ballast).

1. Remove the upper case ass'y.
(Refer to step 1 to 2 of item 6 - 2 (1).)
2. Remove 2 screws C1 and disconnect the lamp connector.
3. Disconnect 4 connector.
4. Remove 4 screws C2 and remove the power unit holder ass'y.

(2) Removing the power unit (circuit).

1. Remove the upper case ass'y.
(Refer to step 1 to 2 of item 6 - 2 (1).)
2. Remove 1 screws C4 and remove the holder metal.
3. Remove screw C5 and remove the ground connection wire.
4. Disconnect 2 connector and remove the power unit (circuit).

(3) Removing the PWB ass'y filter.

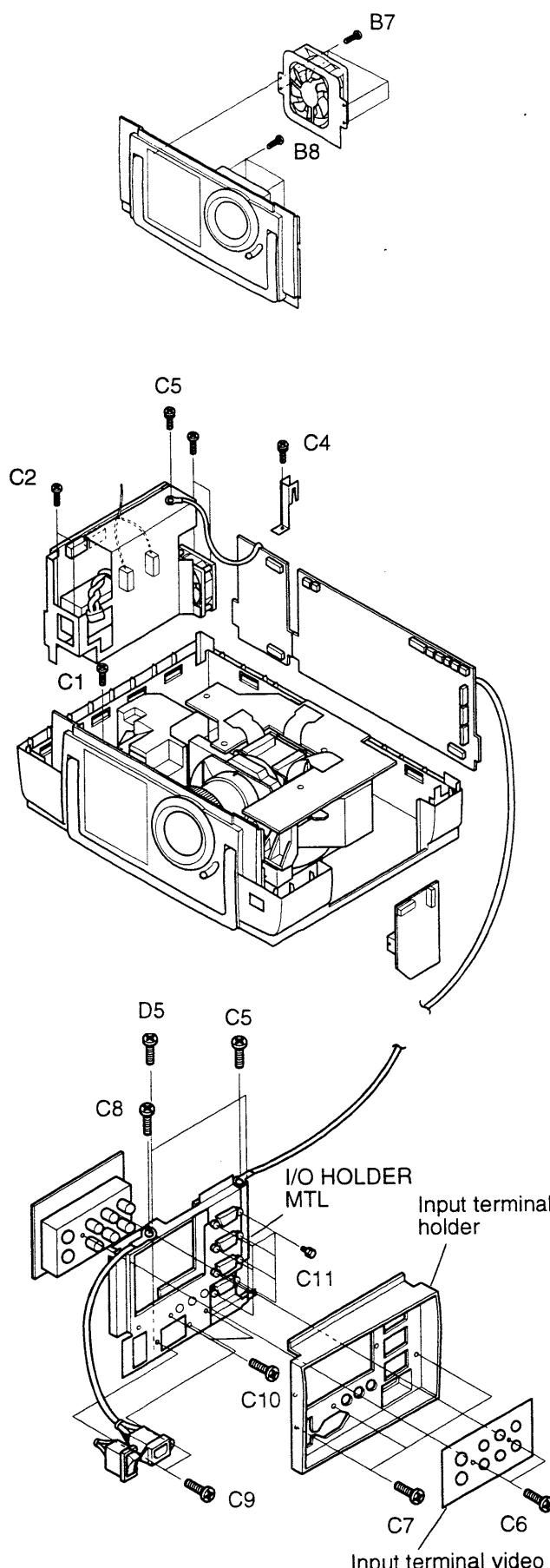
1. Remove the upper case ass'y.
(Refer to steps 1 to 2 of item 6 - 2 (1).)
2. Disconnect 2 connector and remove the PWB ass'y filter.

(4) Removing the PWB ass'y signal.

1. Remove the PWB ass'y drive.
(Refer to step 1 to 2 item 6 - 2 (1).)
2. Disconnect all 8 connector of PWB ass'y signal.
3. Remove screw C4 and remove the holder metal.
4. Remove screw C5 and remove the ground connection wire and remove the PWB ass'y signal.

(5) Removing the PWB ass'y input terminal video.

1. Remove the upper case ass'y.
(Refer to step 1 to 2 item 6 - 2 (1).)
2. Remove 2 screws C6 and remove the connector and remove the PWB ass'y input terminal video.



(6) Removing the PWB ass'y input terminal RGB.

1. Remove the PWB ass'y signal.
(Refer to item 6 - 3 (4).)
2. Remove the PWB ass'y input terminal video.
(Refer to item 6 - 3 (5).)
3. Remove 3 screws C7 and remove I/O terminal holder.
4. Remove screw C8 and remove the ground connection wire from AC inlet.
5. Remove 2 screws C9 and remove the AC inlet holder.
6. Remove 2 screws D5 and remove I/O HOLDER MTL.
7. Remove 8 screws C11 and 2 screws C10 remove the PWB ass'y input terminal RGB.

6 - 4 Removing the dichroic optics unit, intake fan, PWB ass'y mother.

(1) Removing the dichroic optics unit.

1. Remove the lens prism unit.
(Refer to step 1 to 3 of item 6 - 2 (2).)
2. Remove screw D1 and remove the micro switch and thermal sensor switch.
3. Remove 4 screws D2 and remove the dichroic optics unit.

(2) Removing the choke trans.

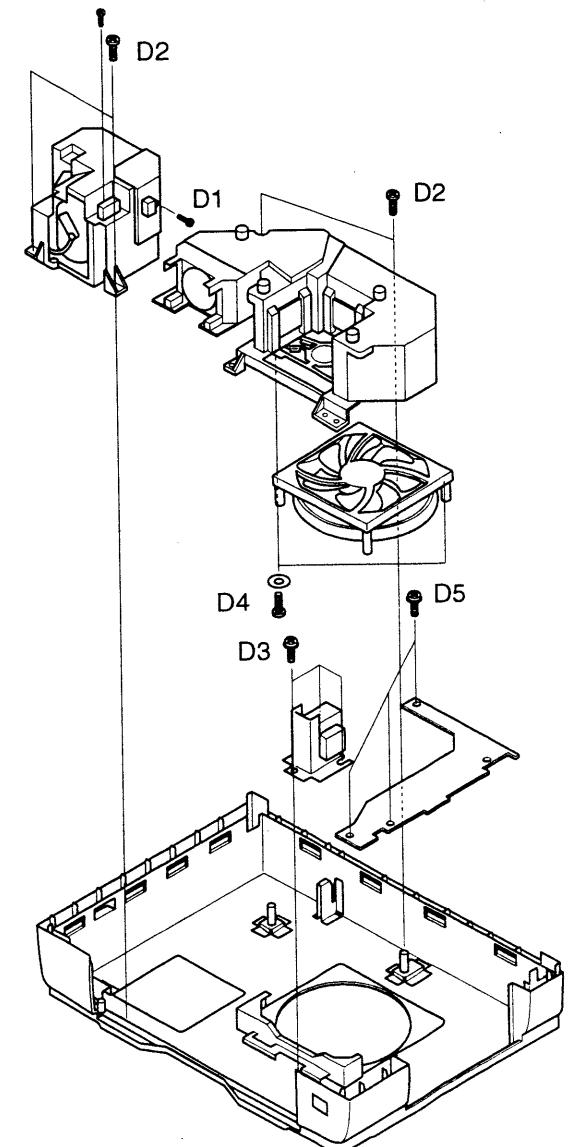
1. Remove the PWB ass'y drive.
(Refer to item 6 - 2 (1).)
2. Disconnect 1 connector.
3. Remove 3 screws D3 and remove the choke trans.

(3) Removing the intake fan.

1. Remove the dichroic optics unit.
(Refer to item 6 - 4 (1).)
2. Disconnect connector from the PWB ass'y signal.
3. Remove 4 screws D4 and remove the intake fan.

(4) Removing the PWB ass'y mother.

1. Remove the power unit (filter).
(Refer to item 6 - 3 (3).)
2. Remove the PWB ass'y signal.
(Refer to item 6 - 3 (4).)
3. Remove the PWB ass'y input terminal video.
(Refer to item 6 - 3 (5).)
4. Remove the PWB ass'y input terminal RGB.
(Refer to item 6 - 3 (6).)
5. Remove 3 screws D5 and remove the PWB ass'y mother.



7. Dust cleaning

(1) Check dust condition

1. Show the white picture on the screen (whose size is 60") to check dust condition.
2. If dust condition is not good, should be clean the LCD module ass'y and the Air filter.

(2) Clean the LCD module ass'y

1. Remove the LCD module ass'y. (Refer Item 6 - 2 (3)).
2. Blow the air on both side of the LCD module by dust blower or air gun.
3. If dusts are still on, wipe it with the special glass cleaning cloth.
4. Fix the LCD module, and check dust condition.
5. If it is OK, adjust convergence. (see 4 - 3)

(3) Clean the air filter

1. Remove the air filter from the bottom of the projector. (see Fig.7 - 1)
2. Wipe the air filter with a cloth moistened with water or neutral detergent, and wipe with a dry cloth.

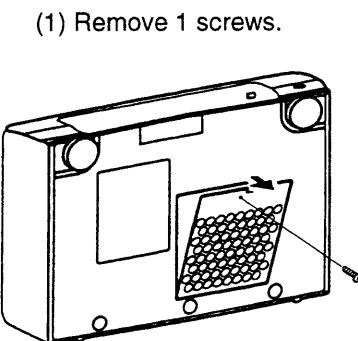
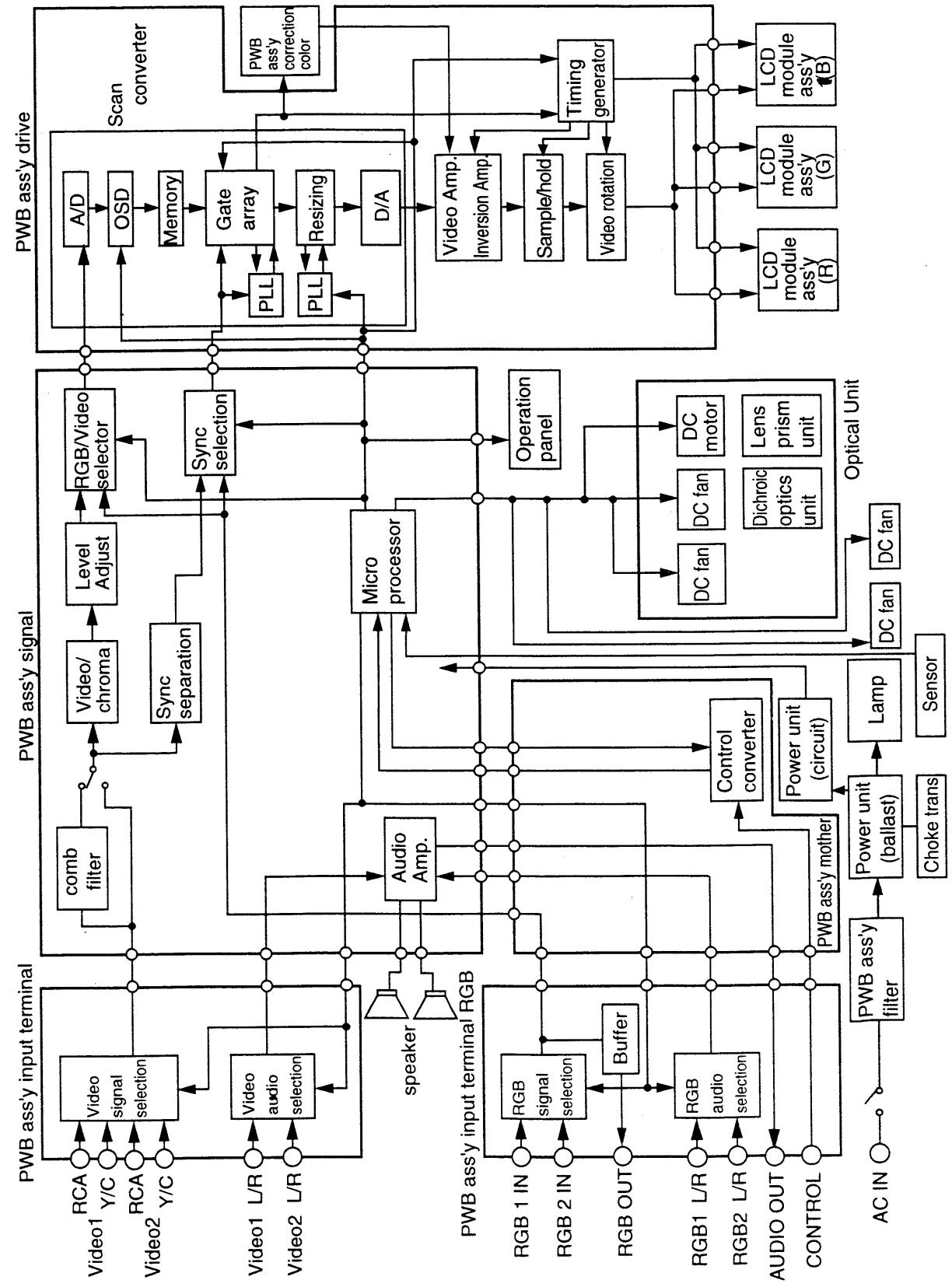


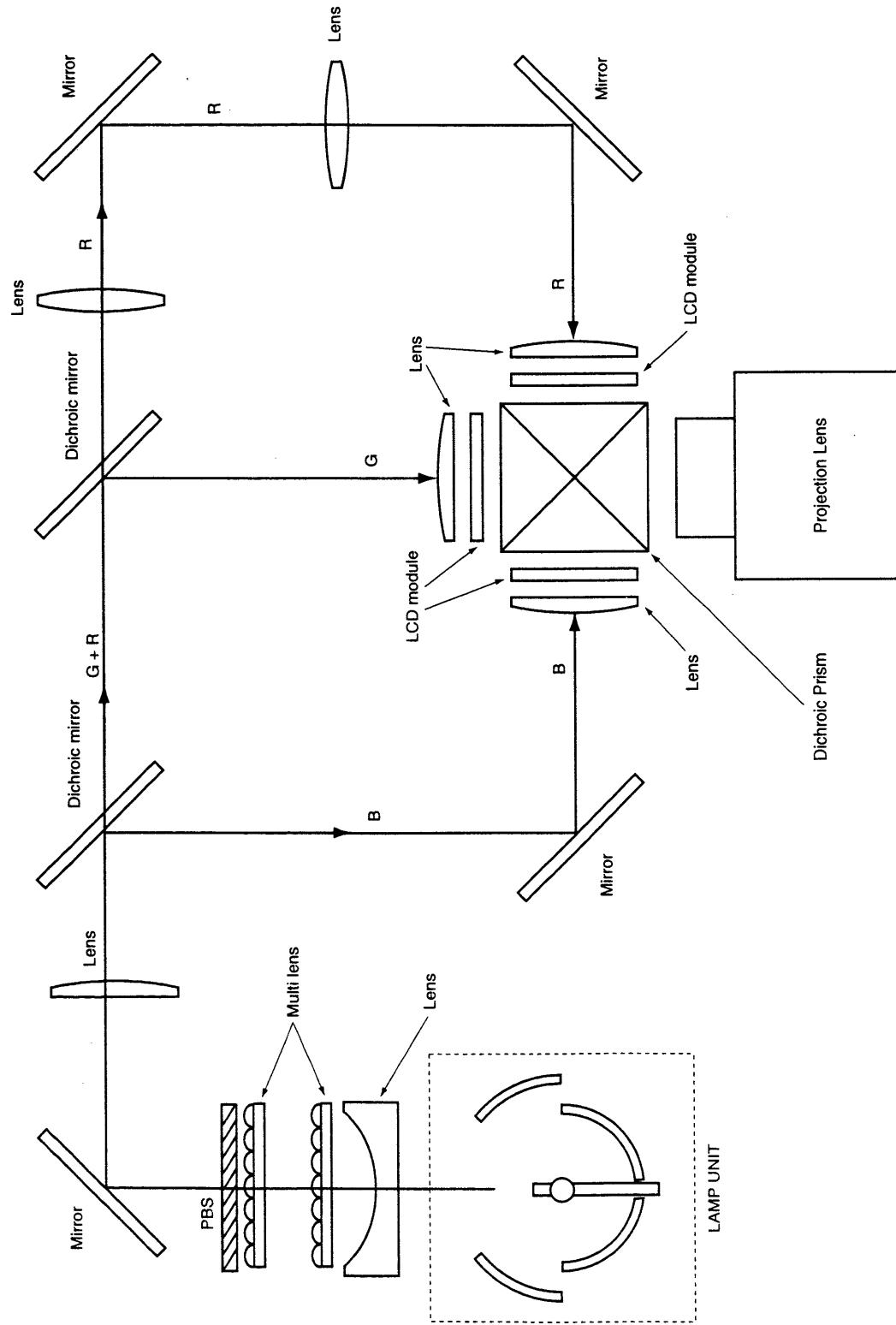
Fig.7 - 1

8. Block diagram

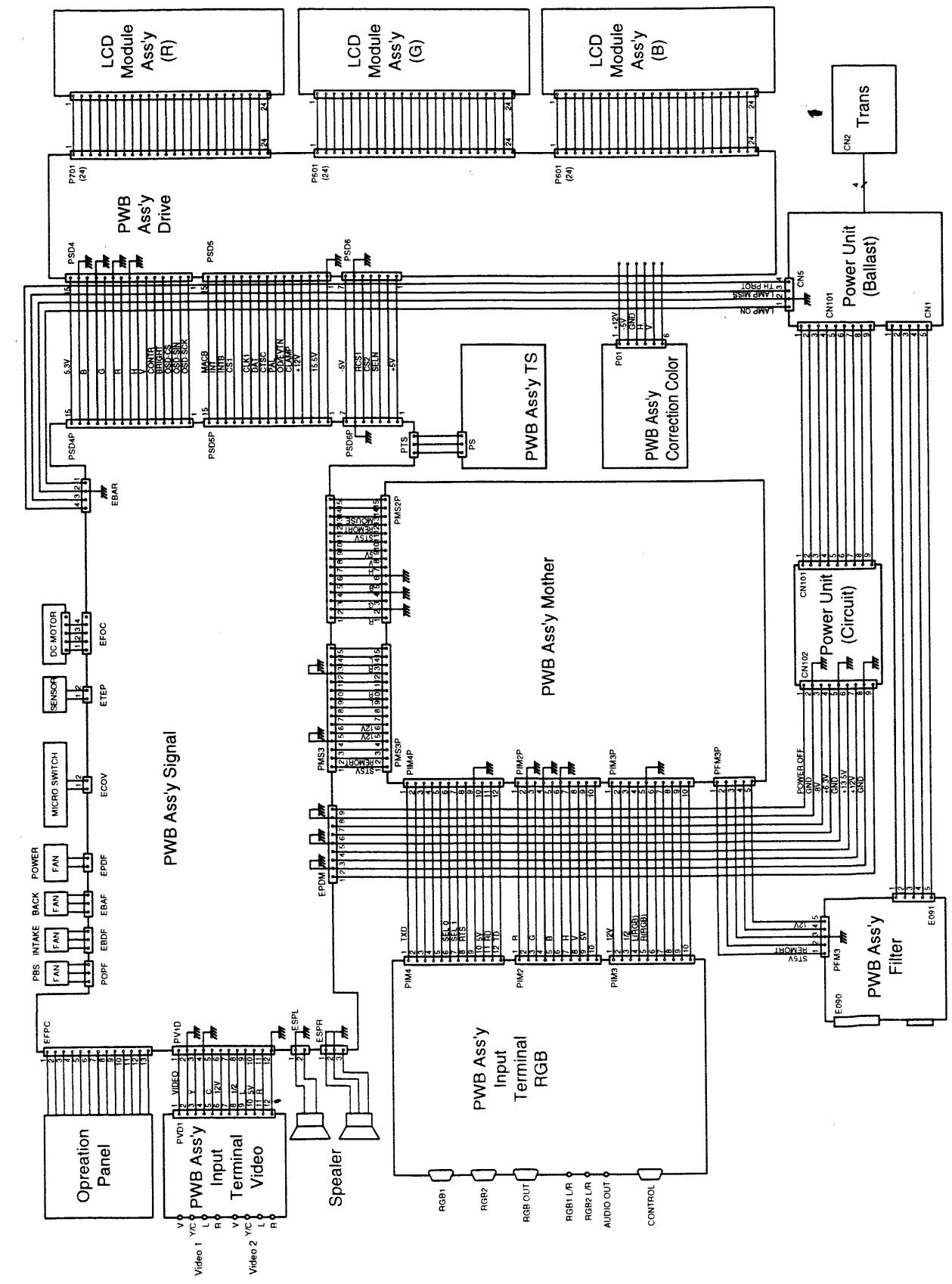
8.1 Circuit diagram



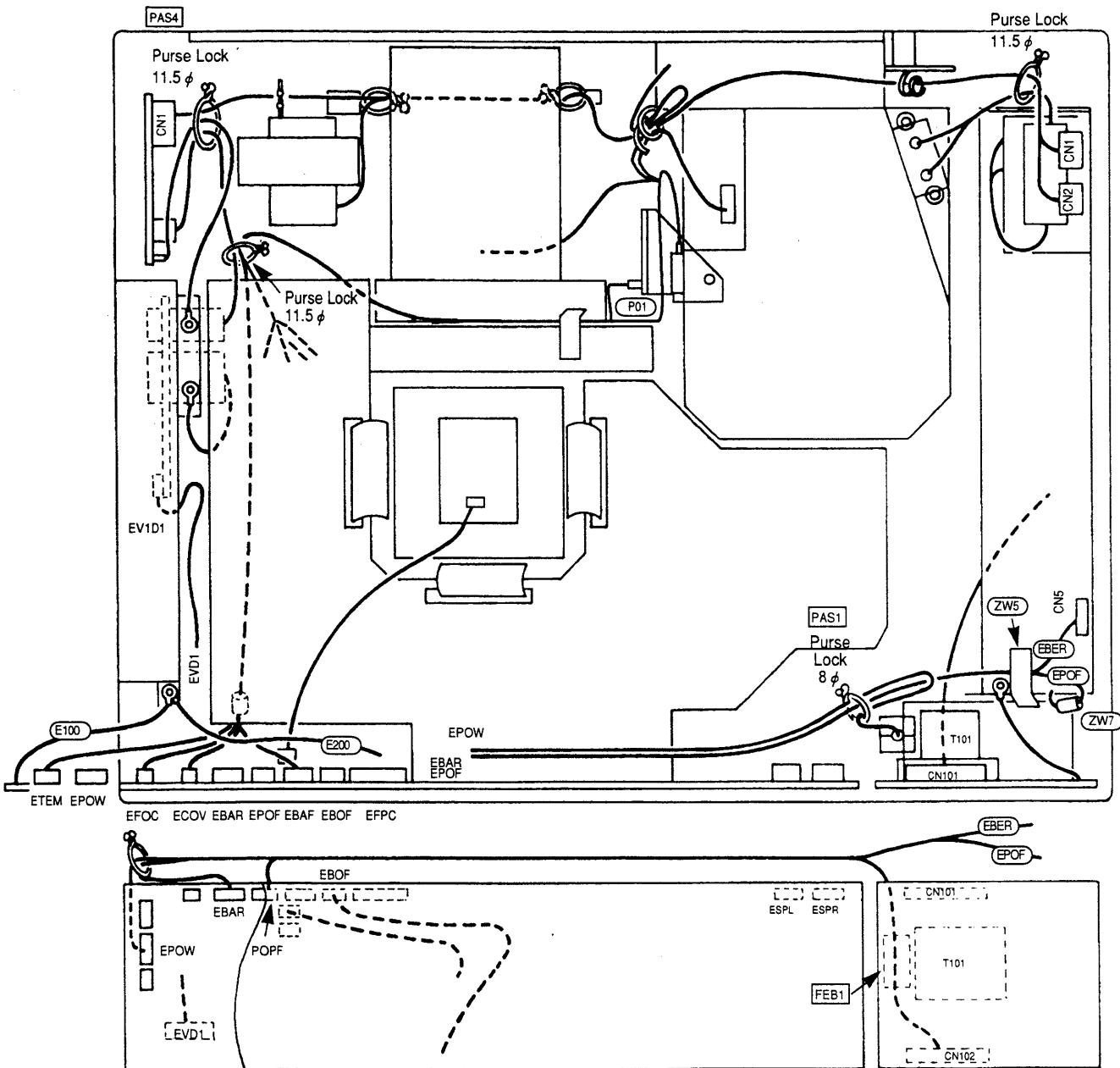
8.2 Layout of optical system



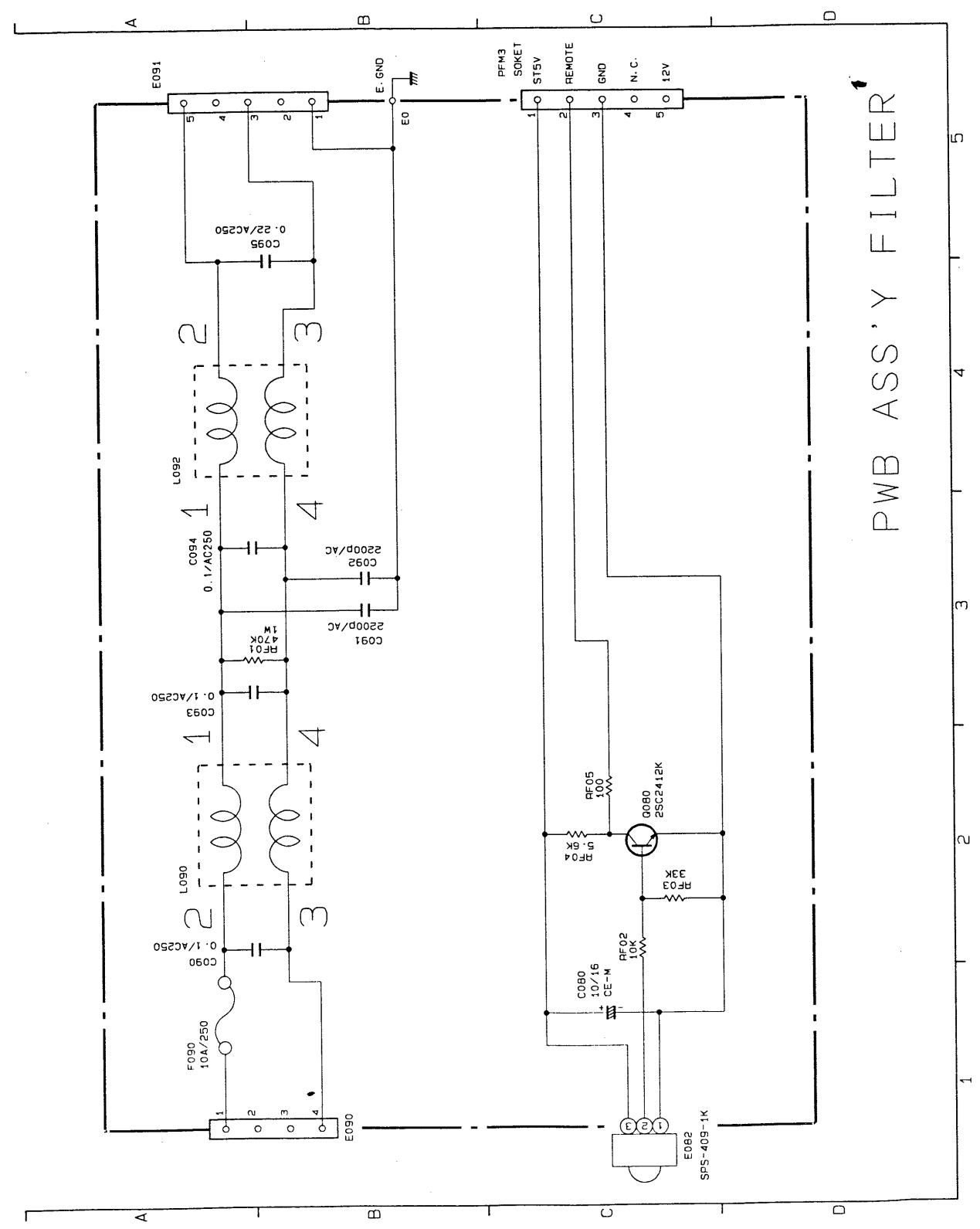
9. Connector connection diagram

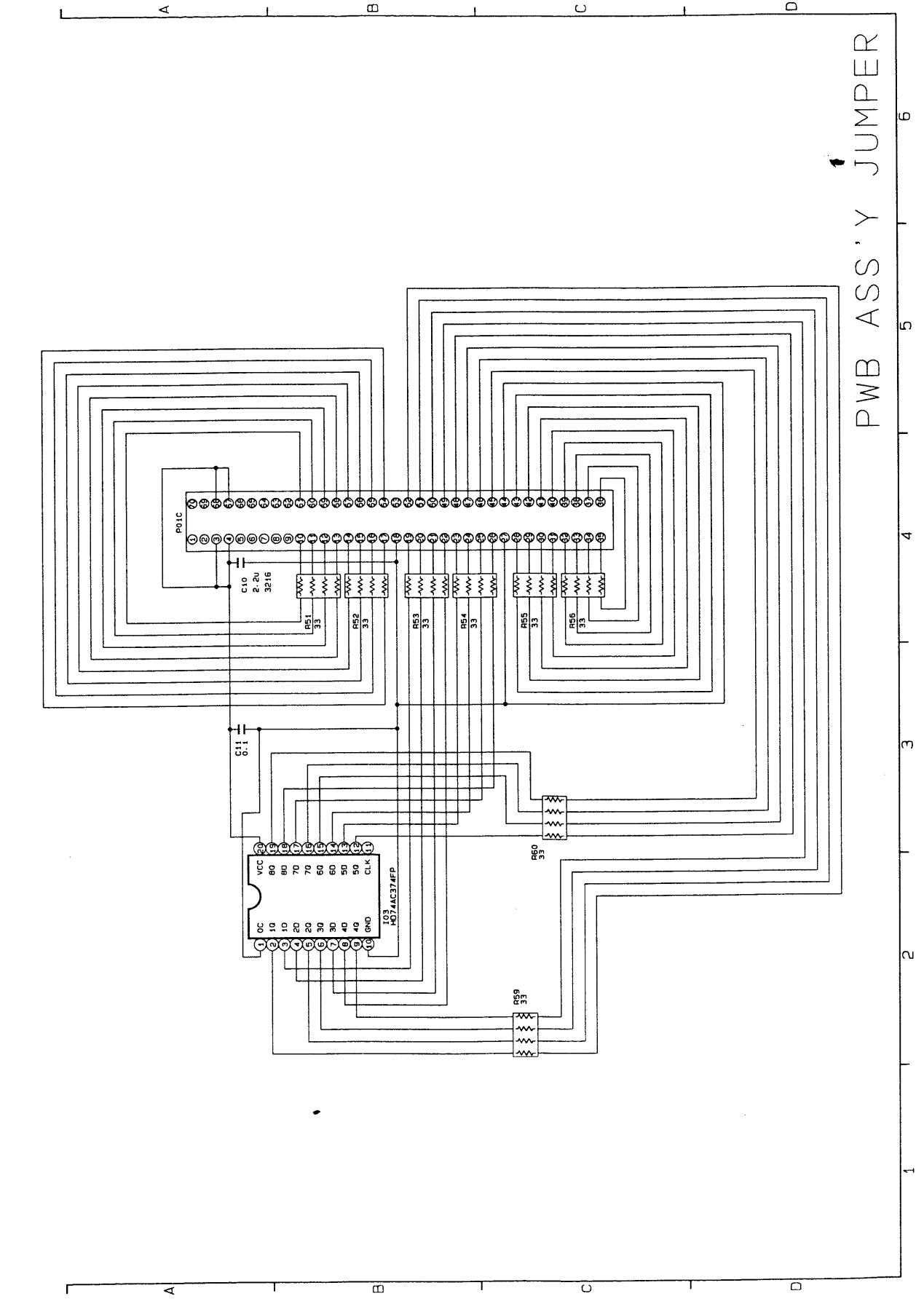
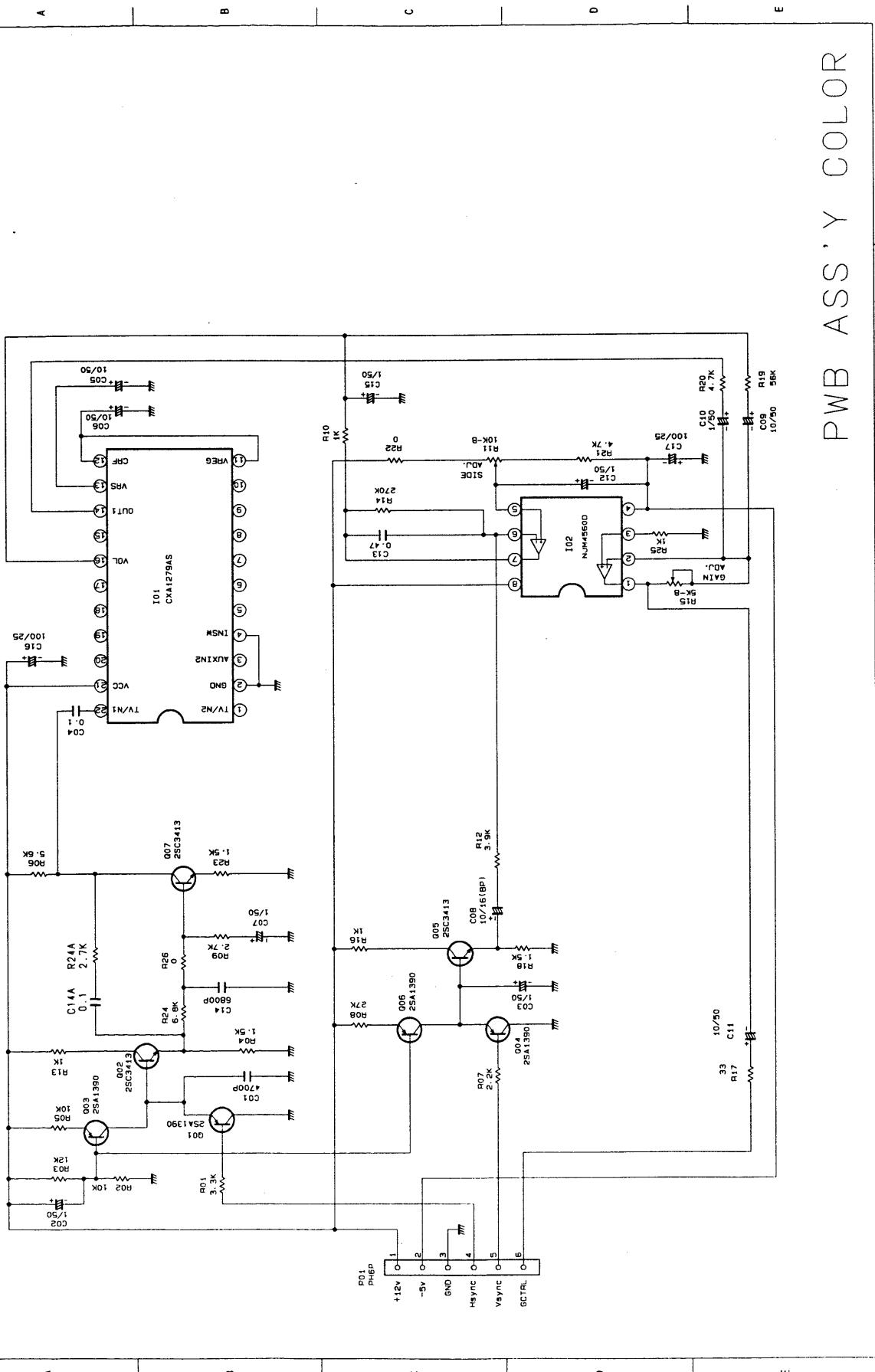


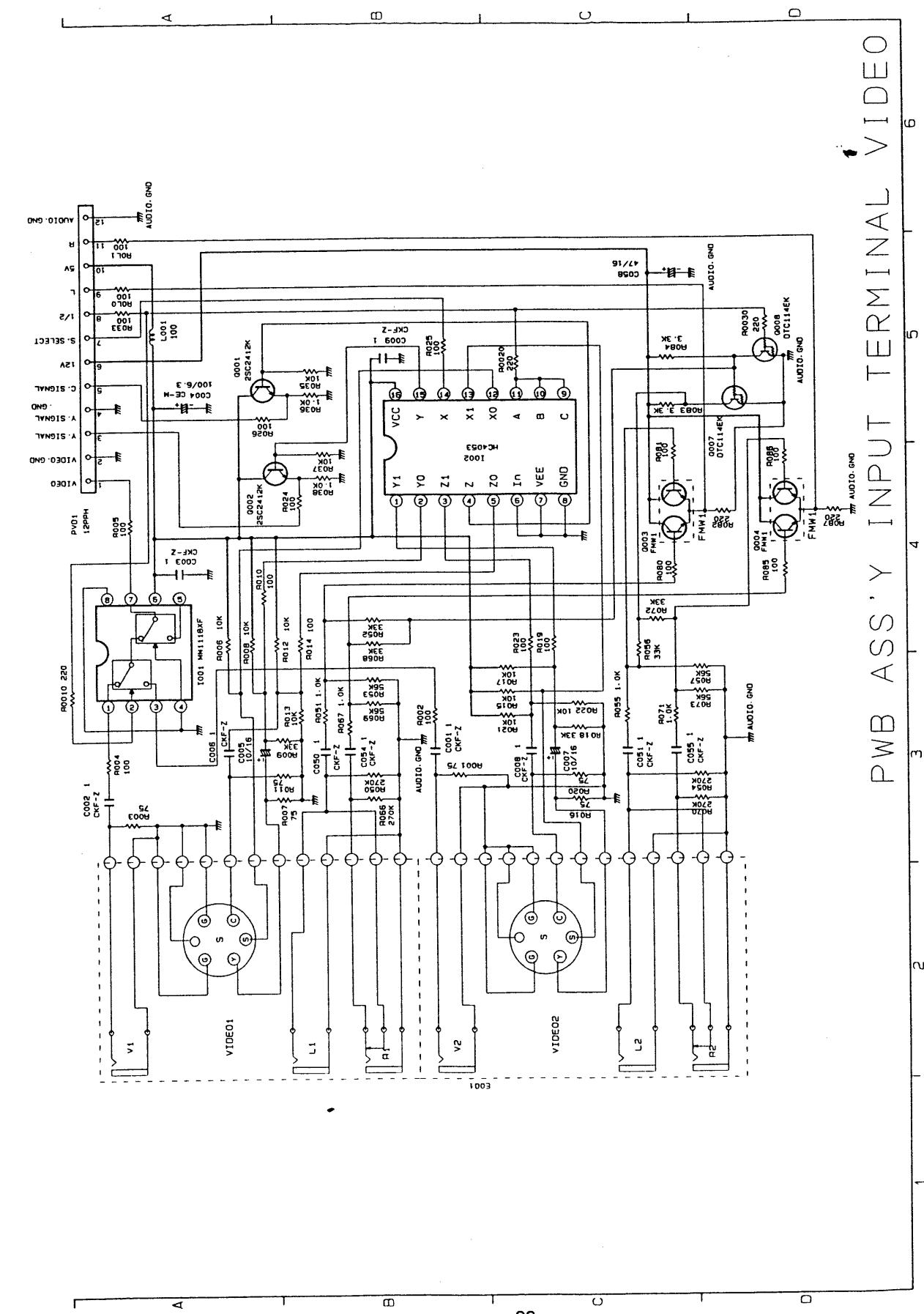
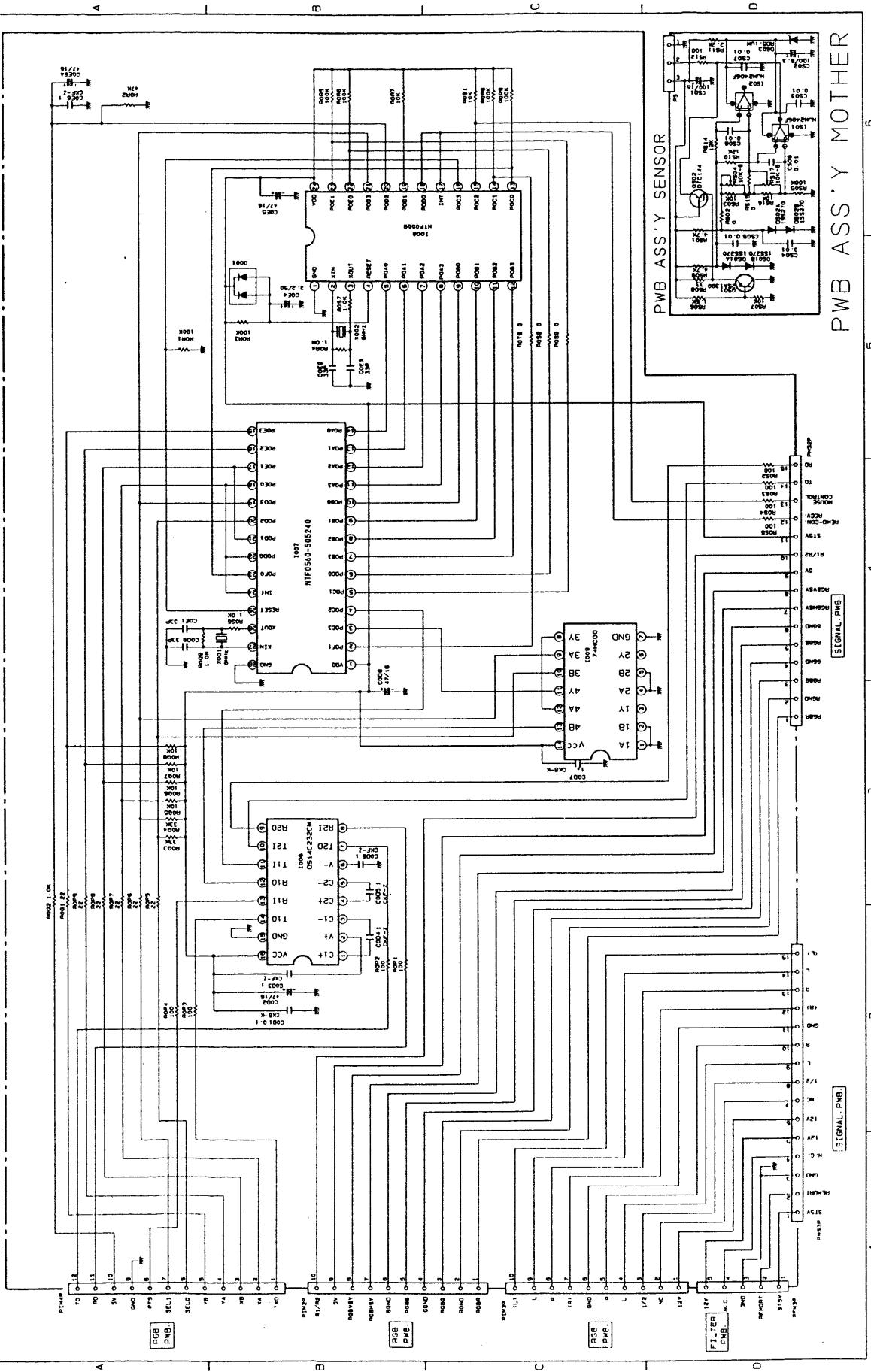
10. Wiring diagram

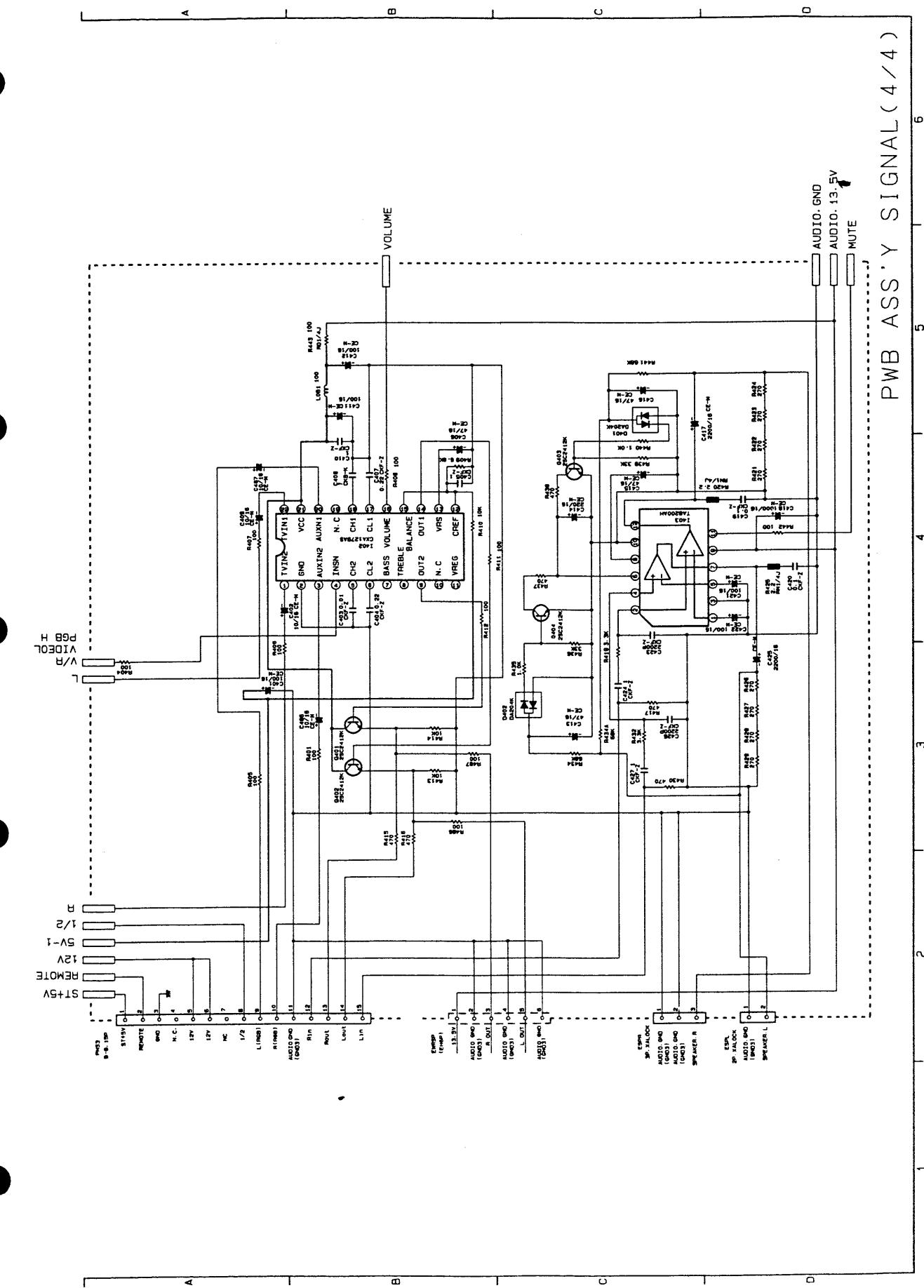
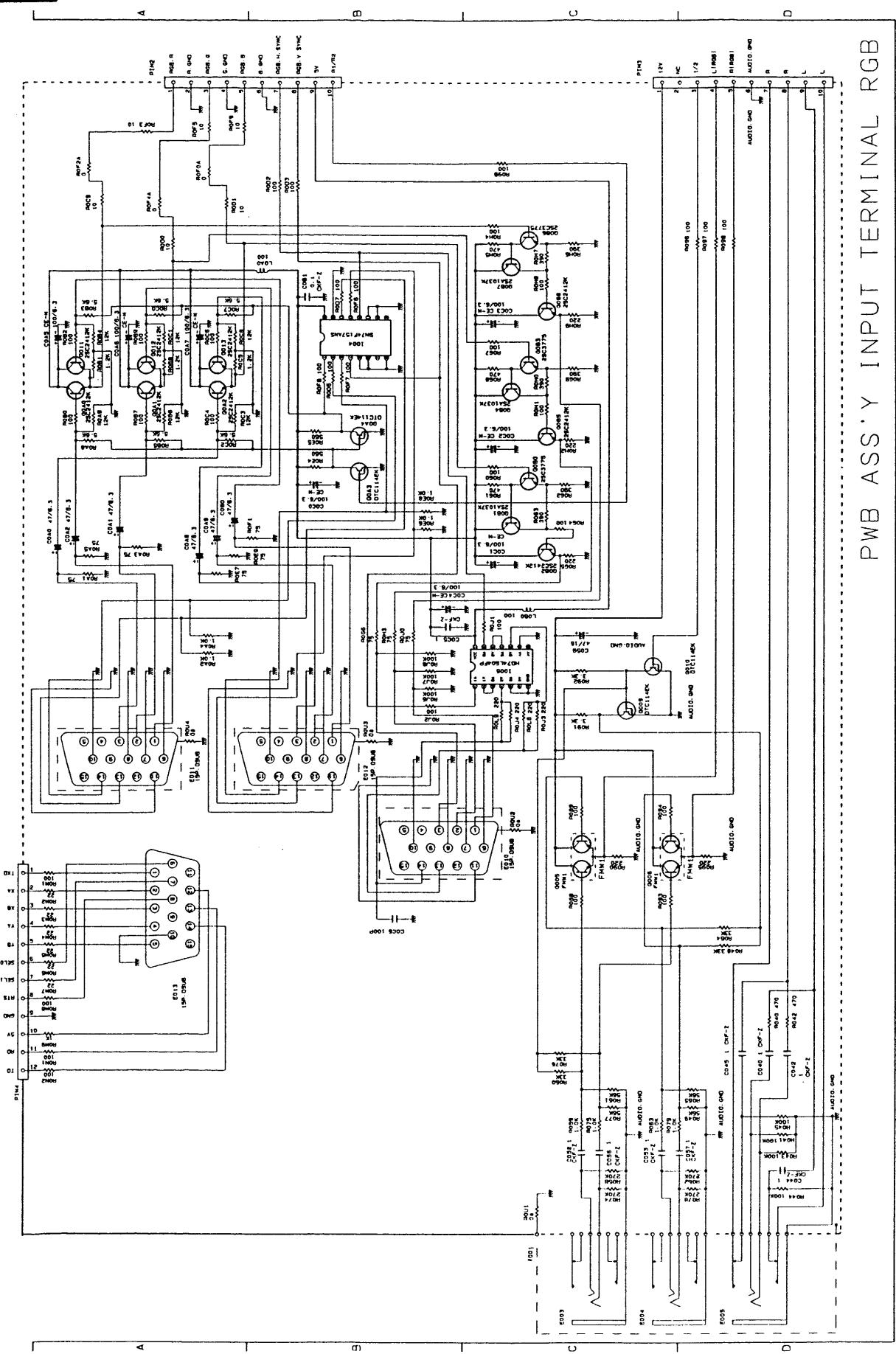


11. Basic circuit diagram



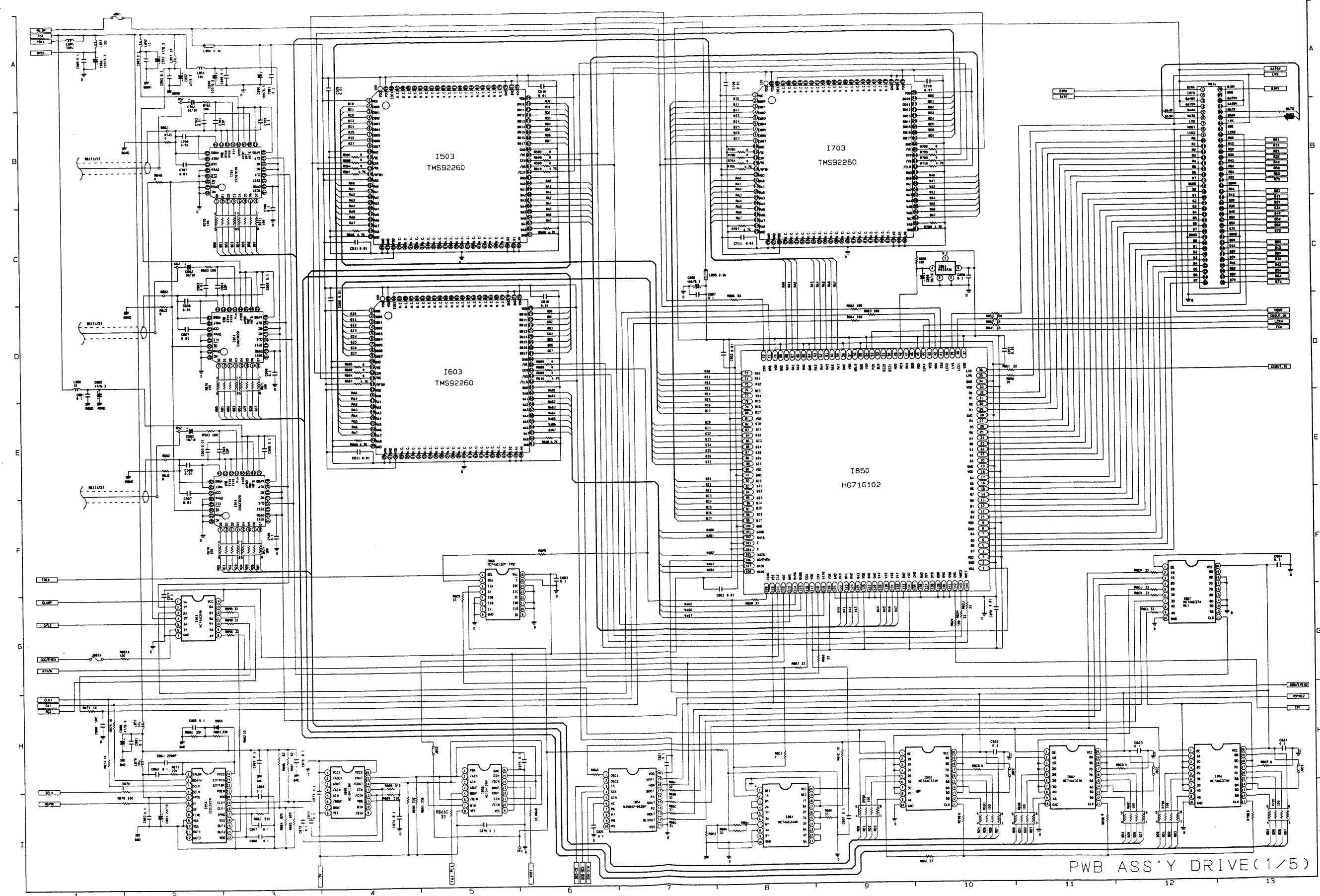


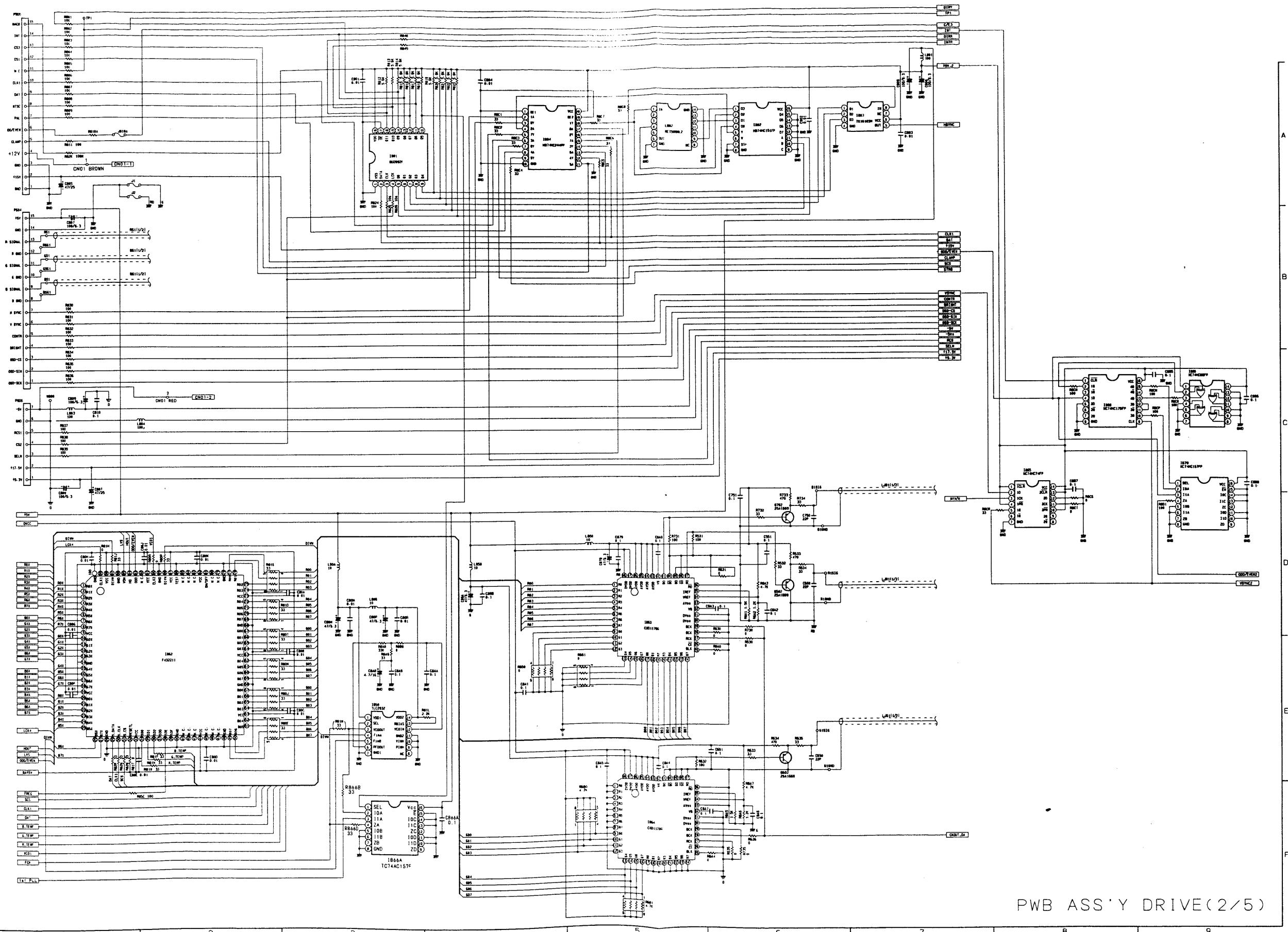




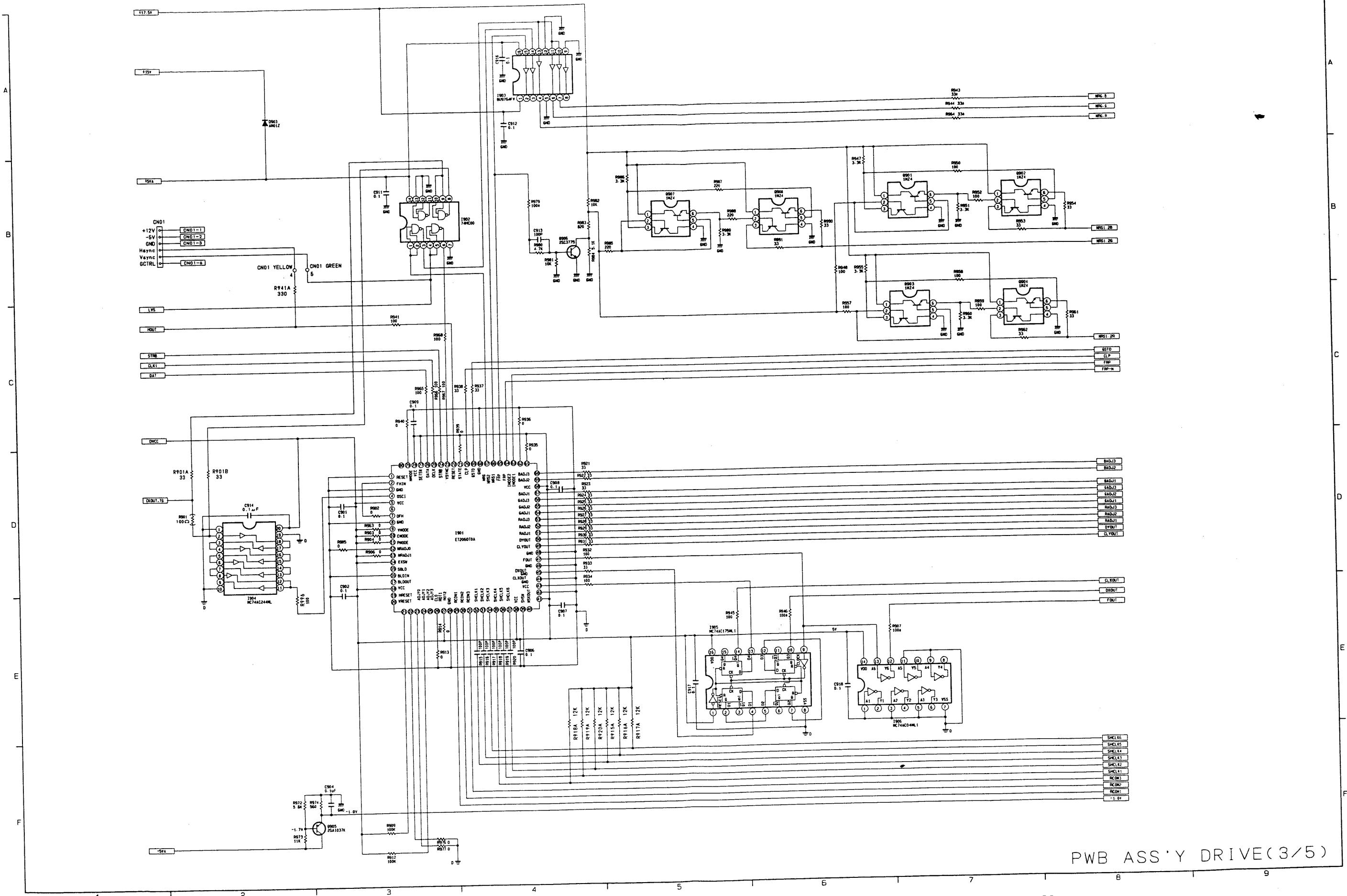
CP-L850WX
CP-L850E

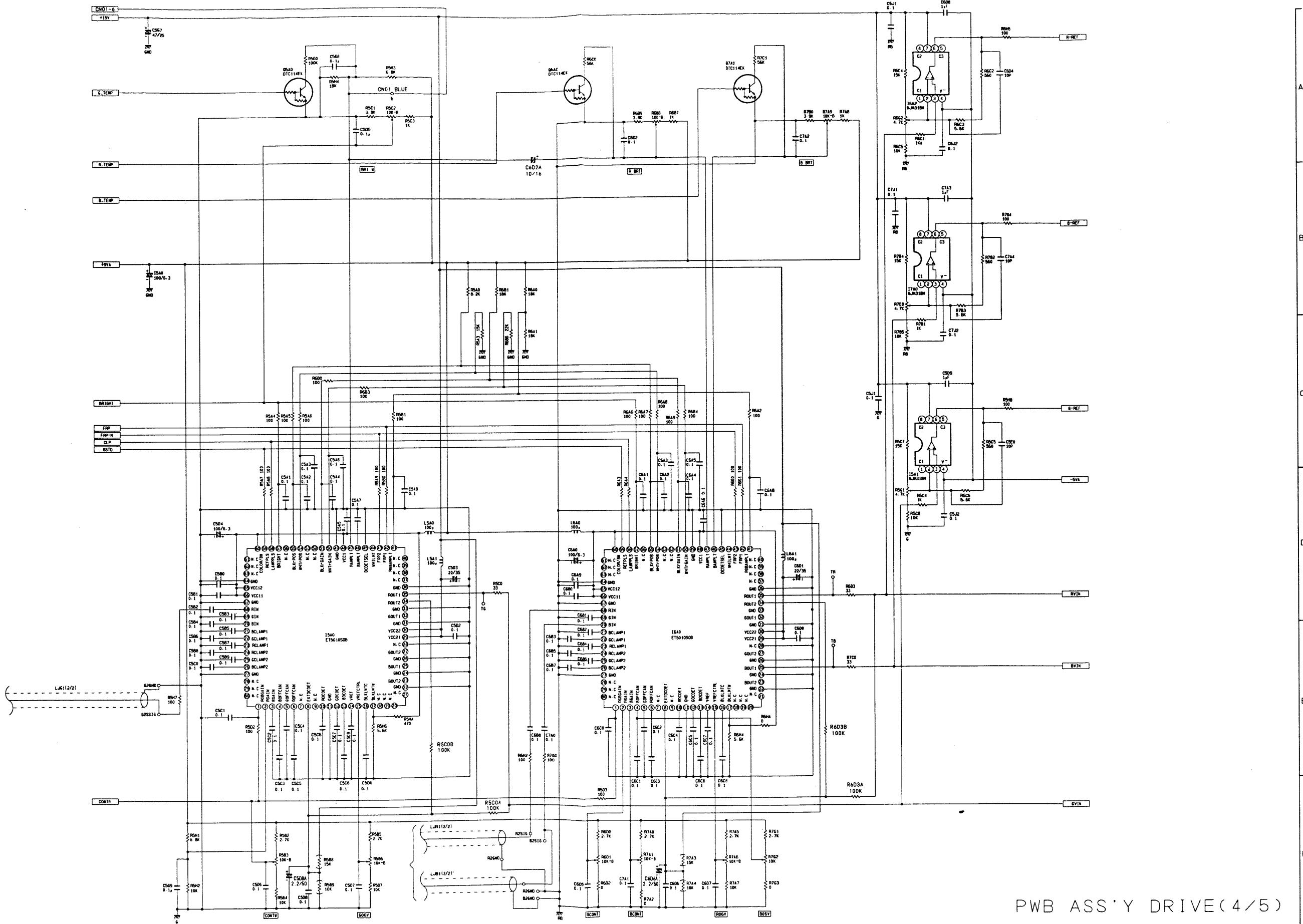
MEMO



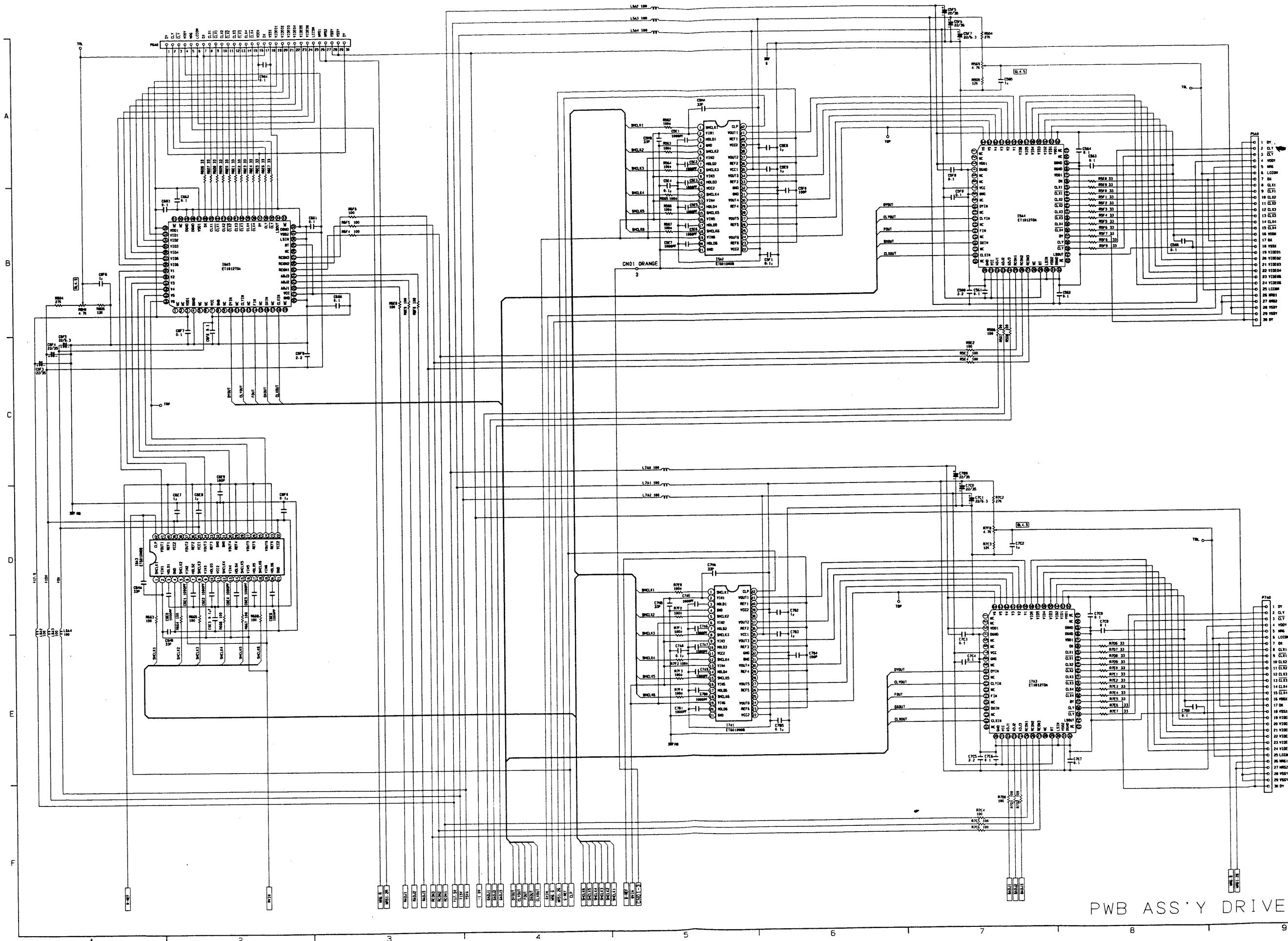


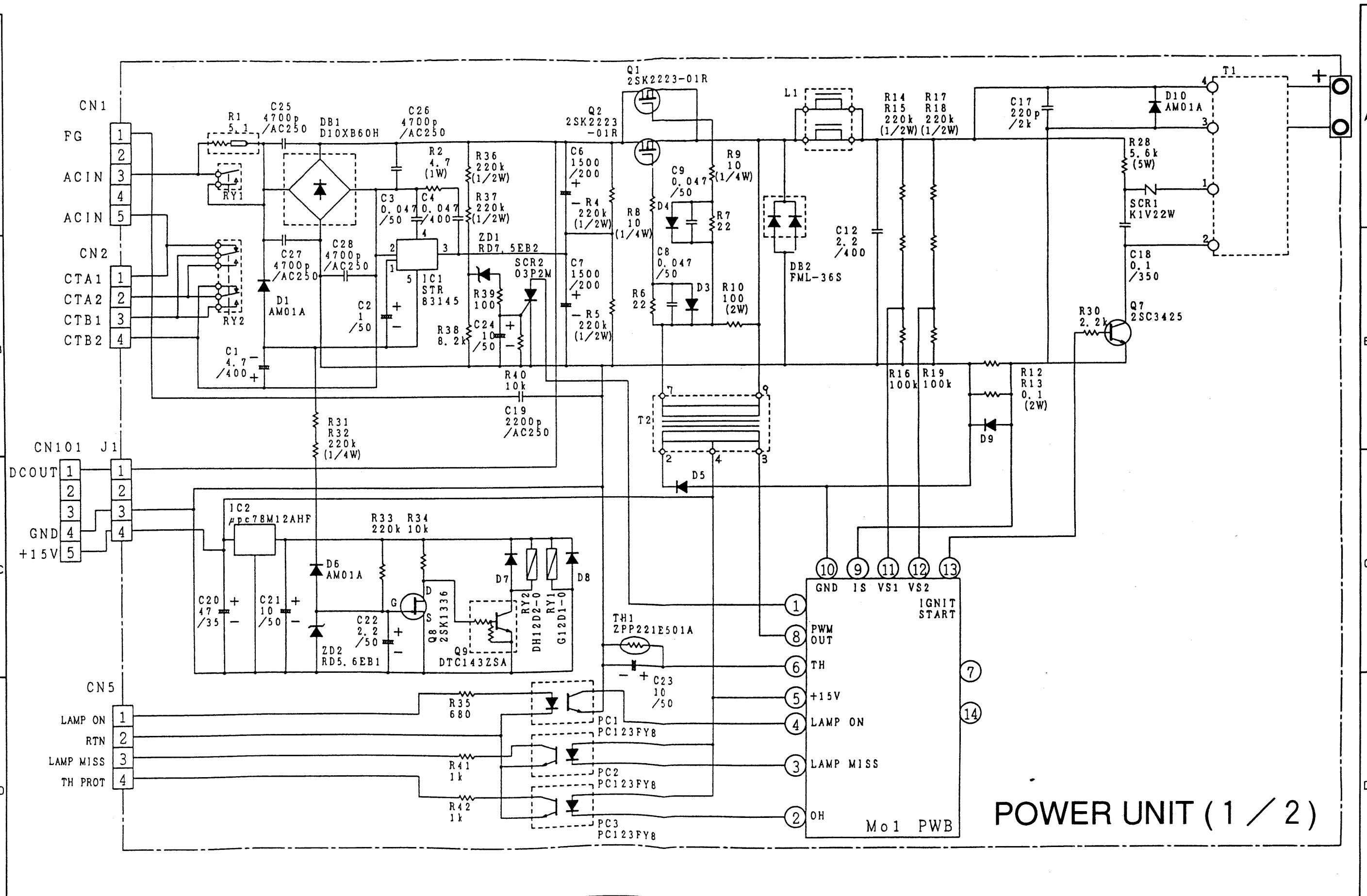
PWB ASS'Y DRIVE (2/5)

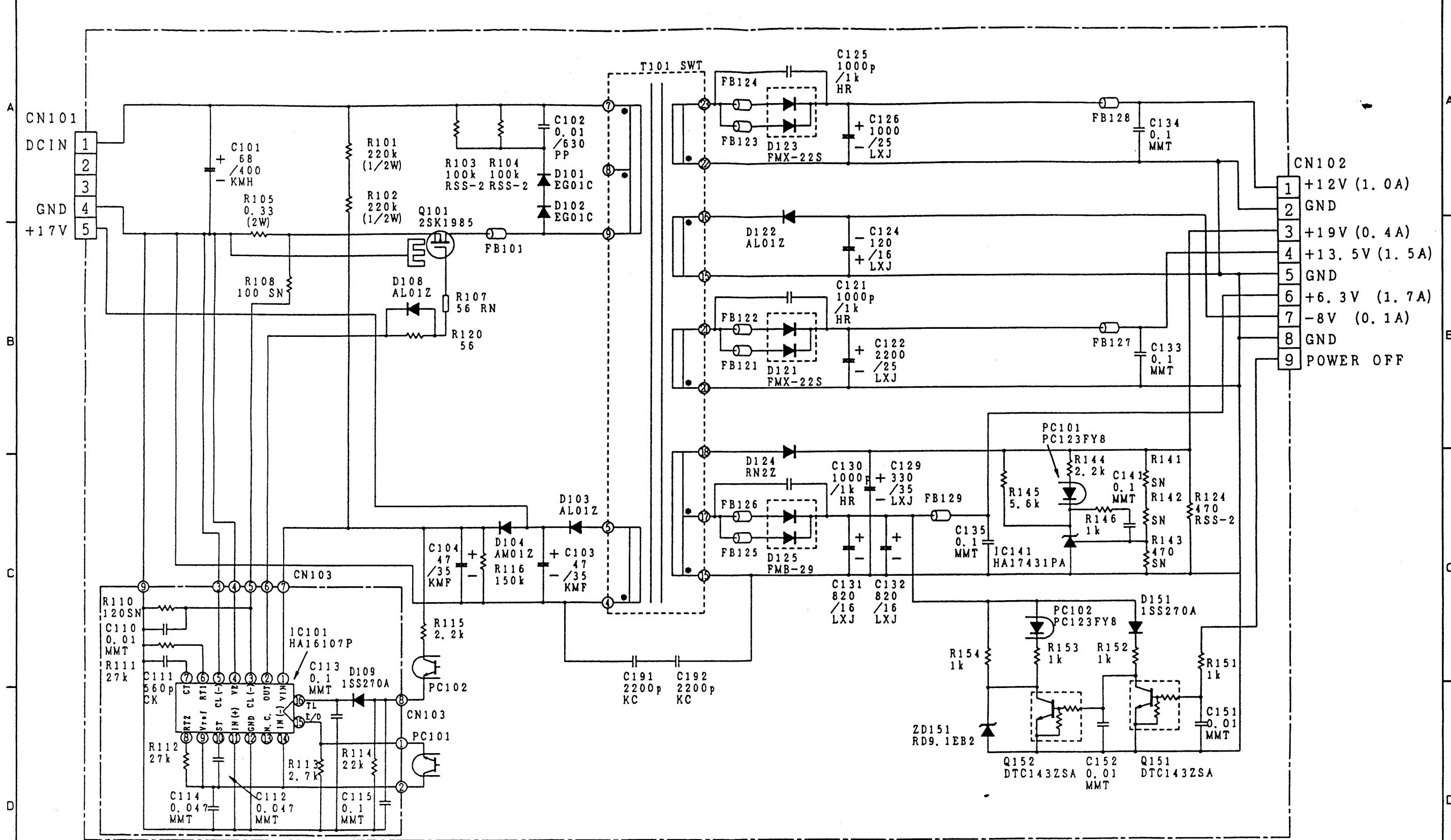




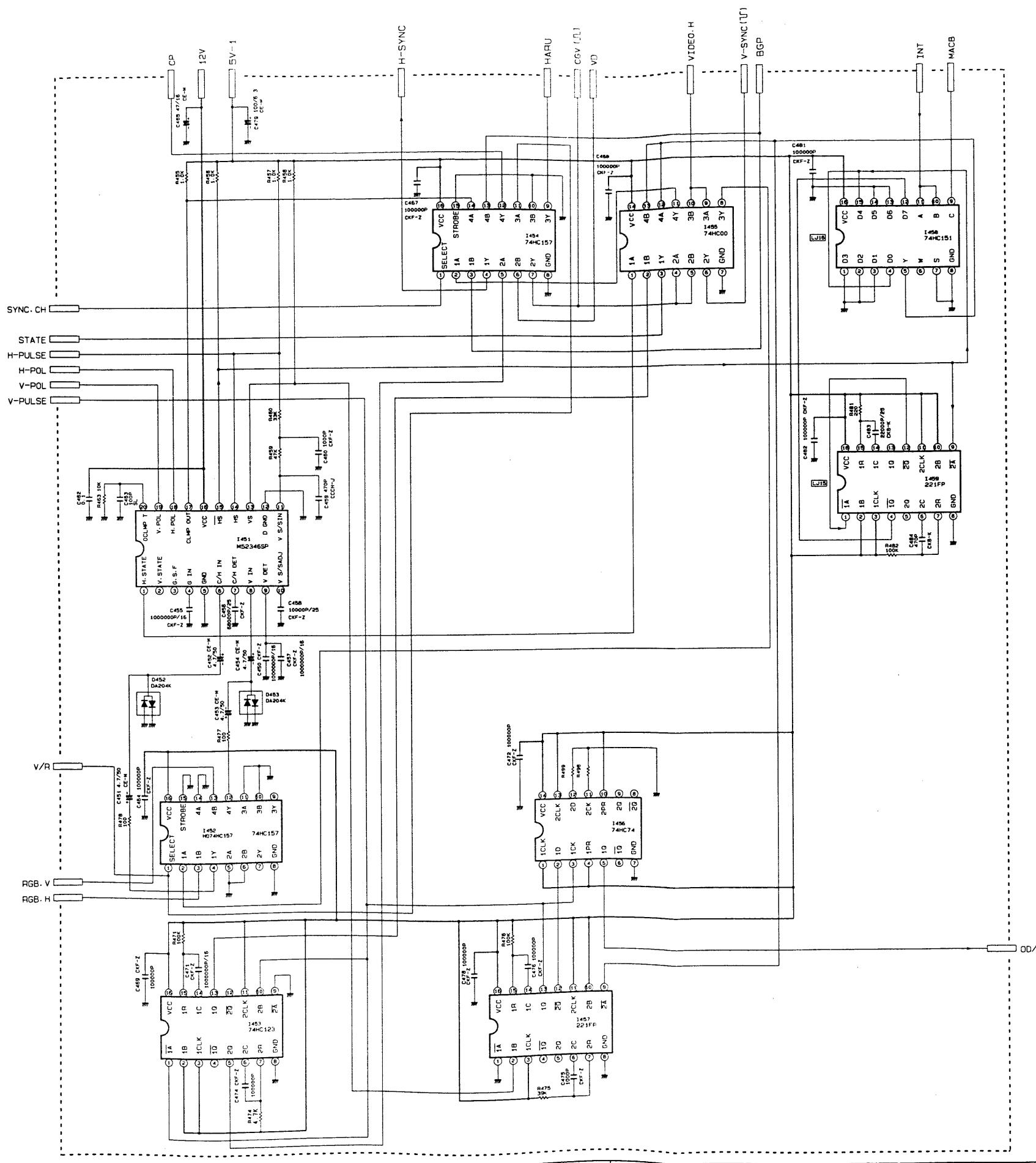
PWB ASS'Y DRIVE(4/5)



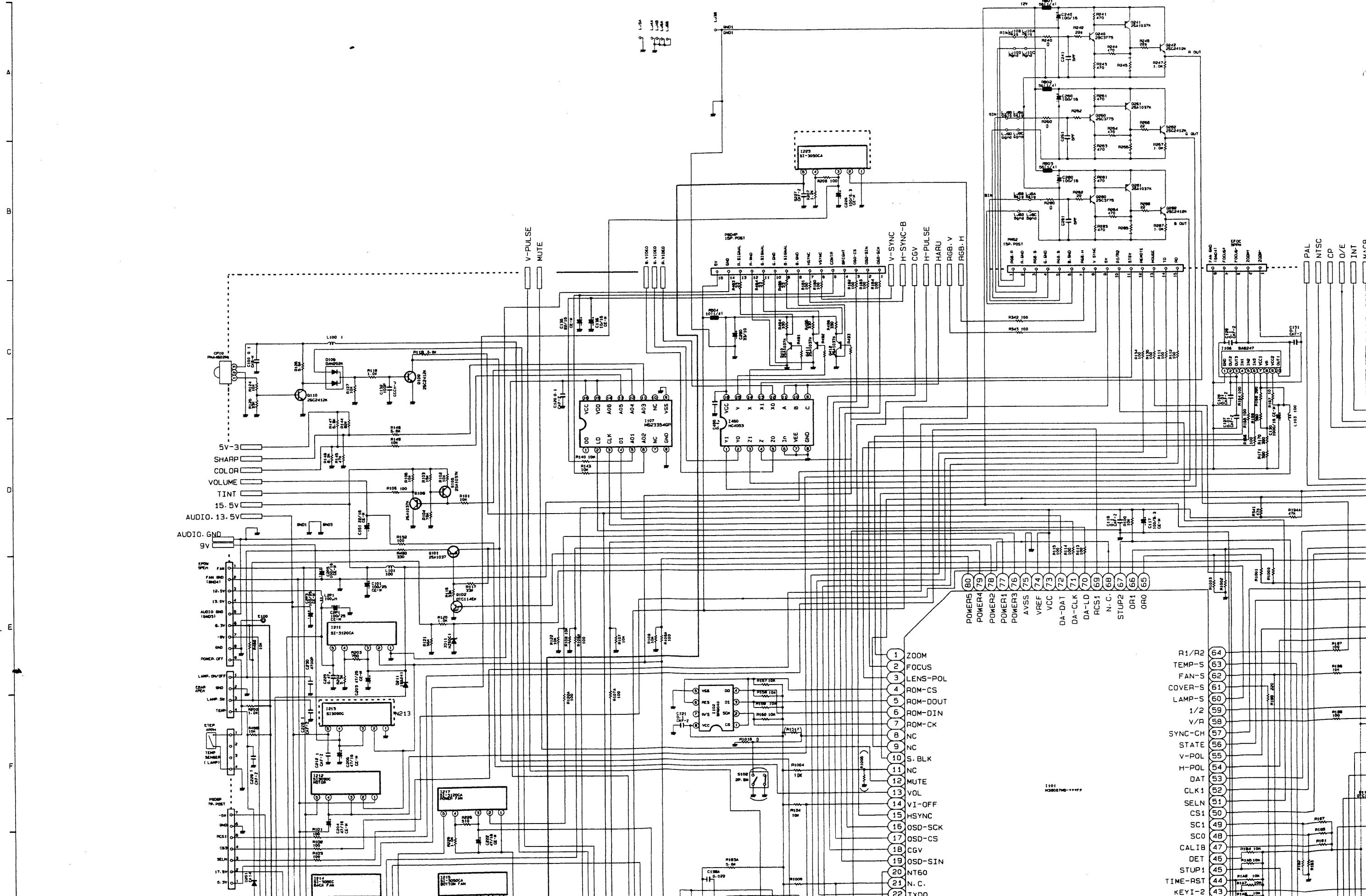


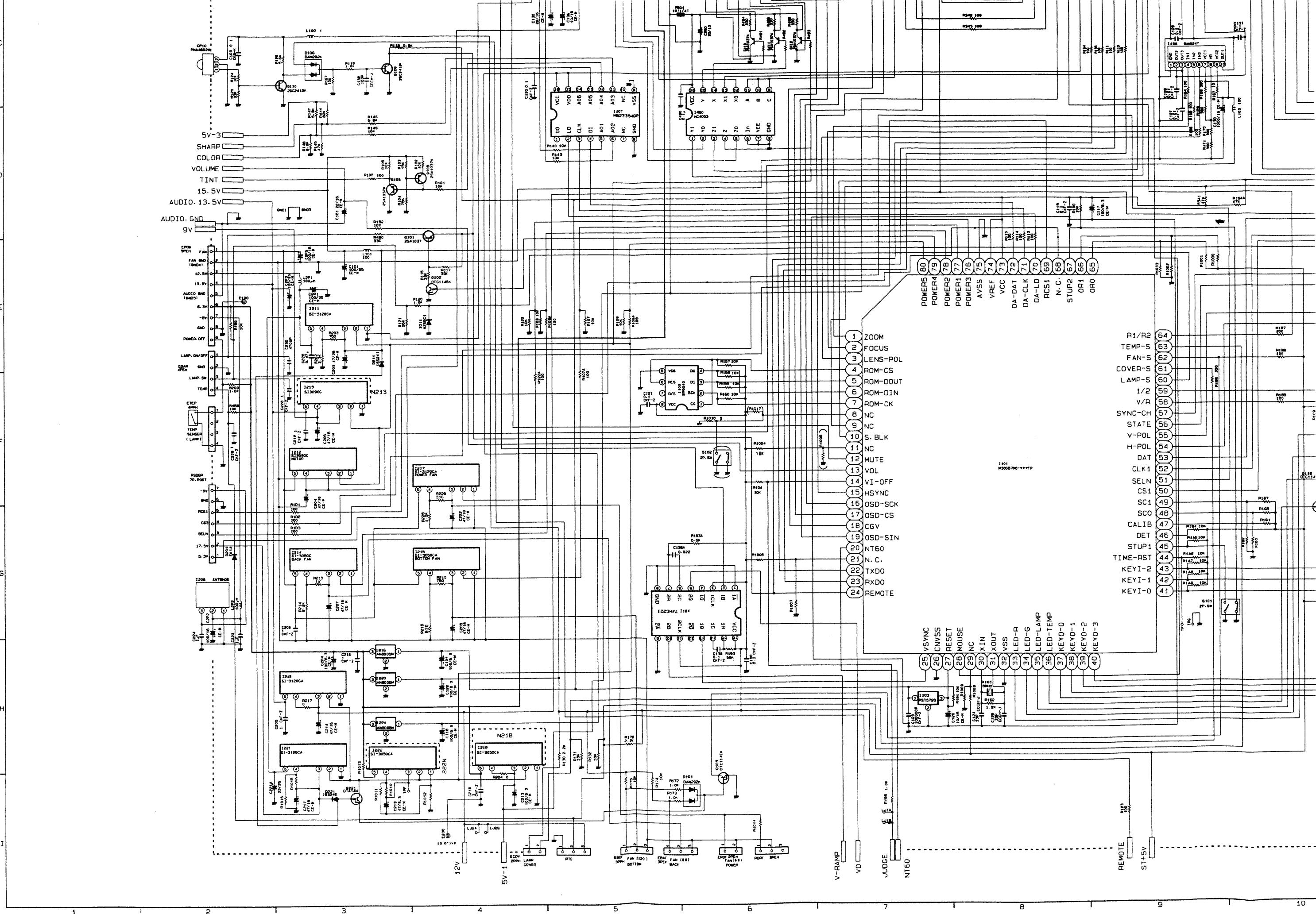


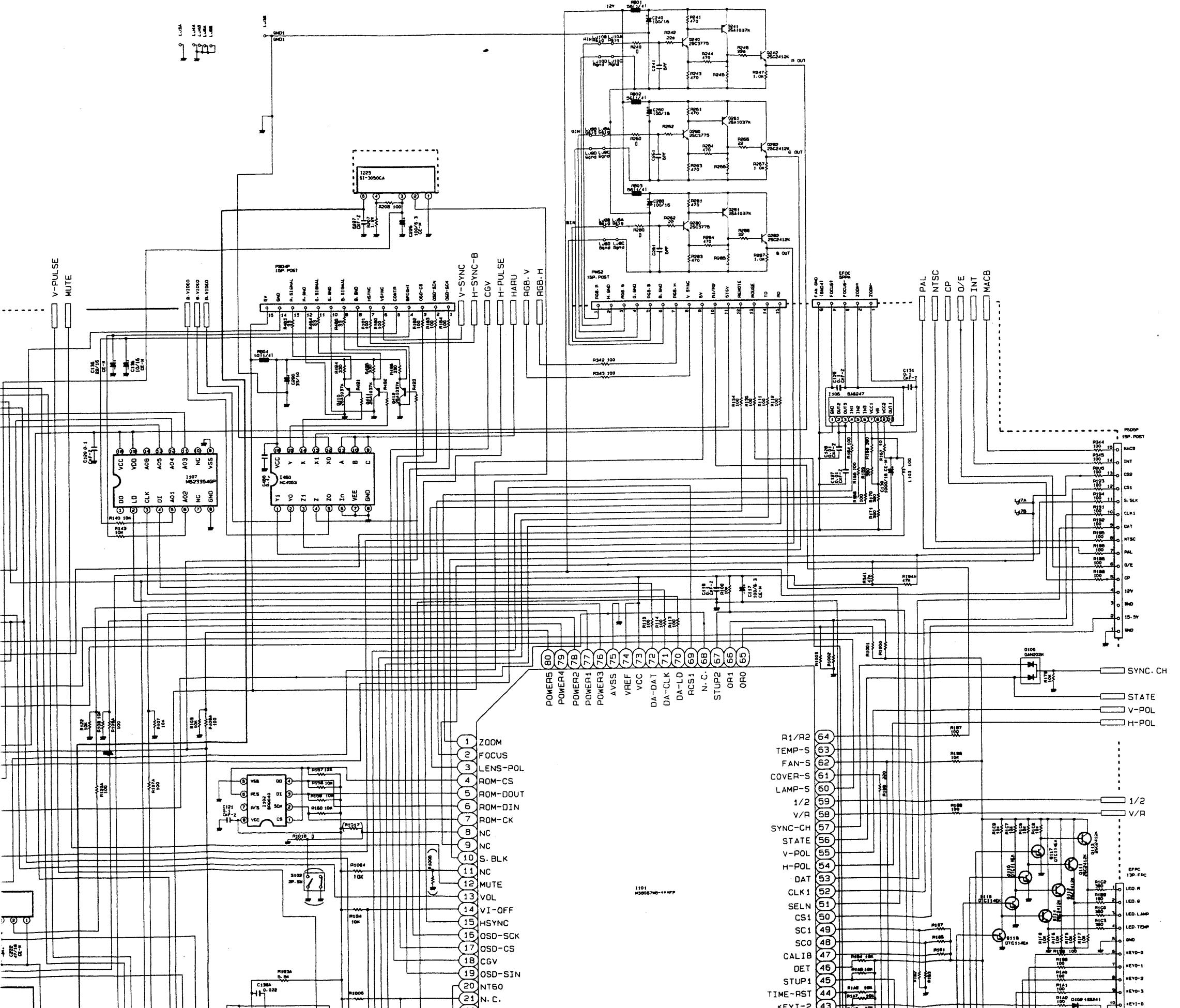
POWER UNIT (2 / 2)

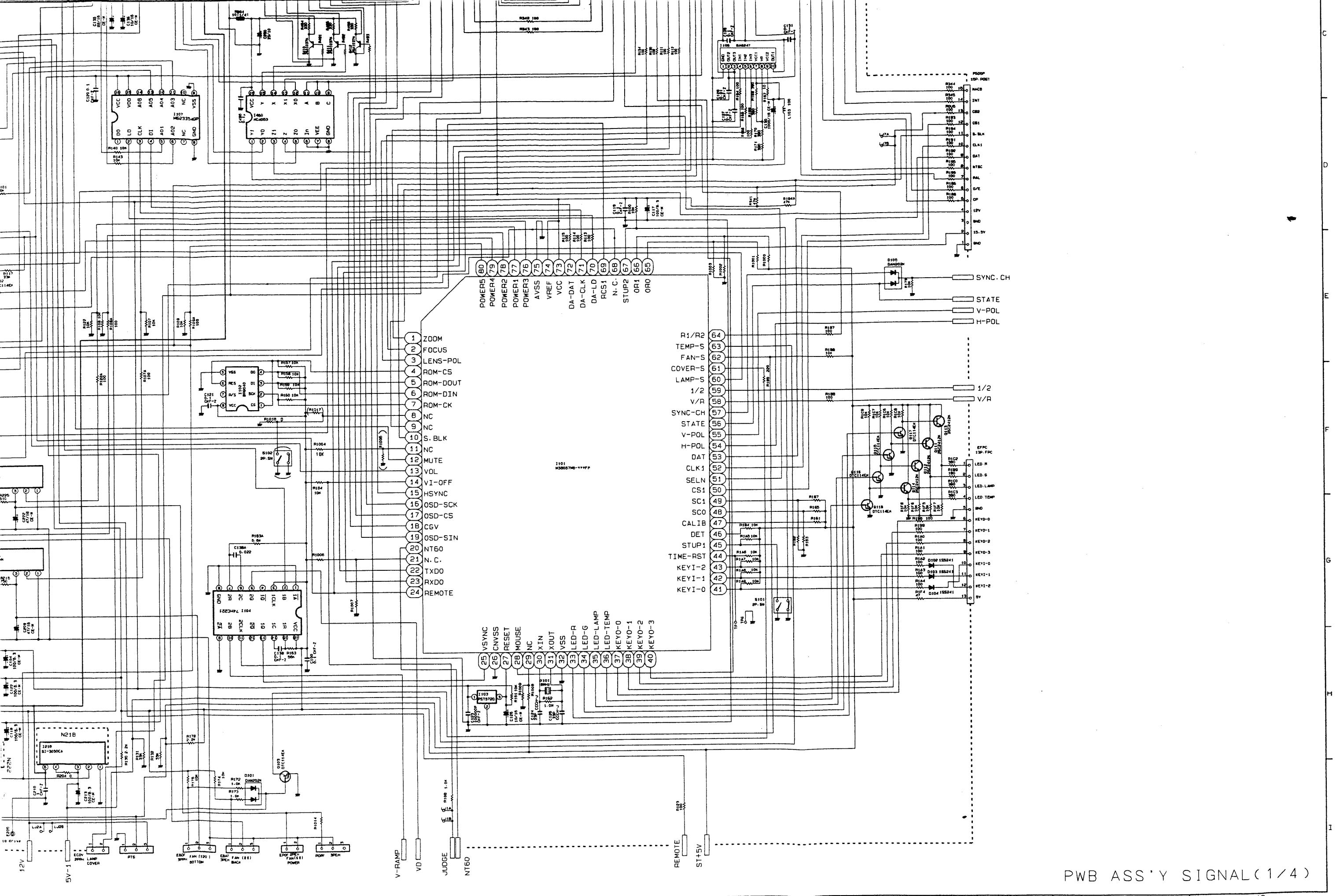


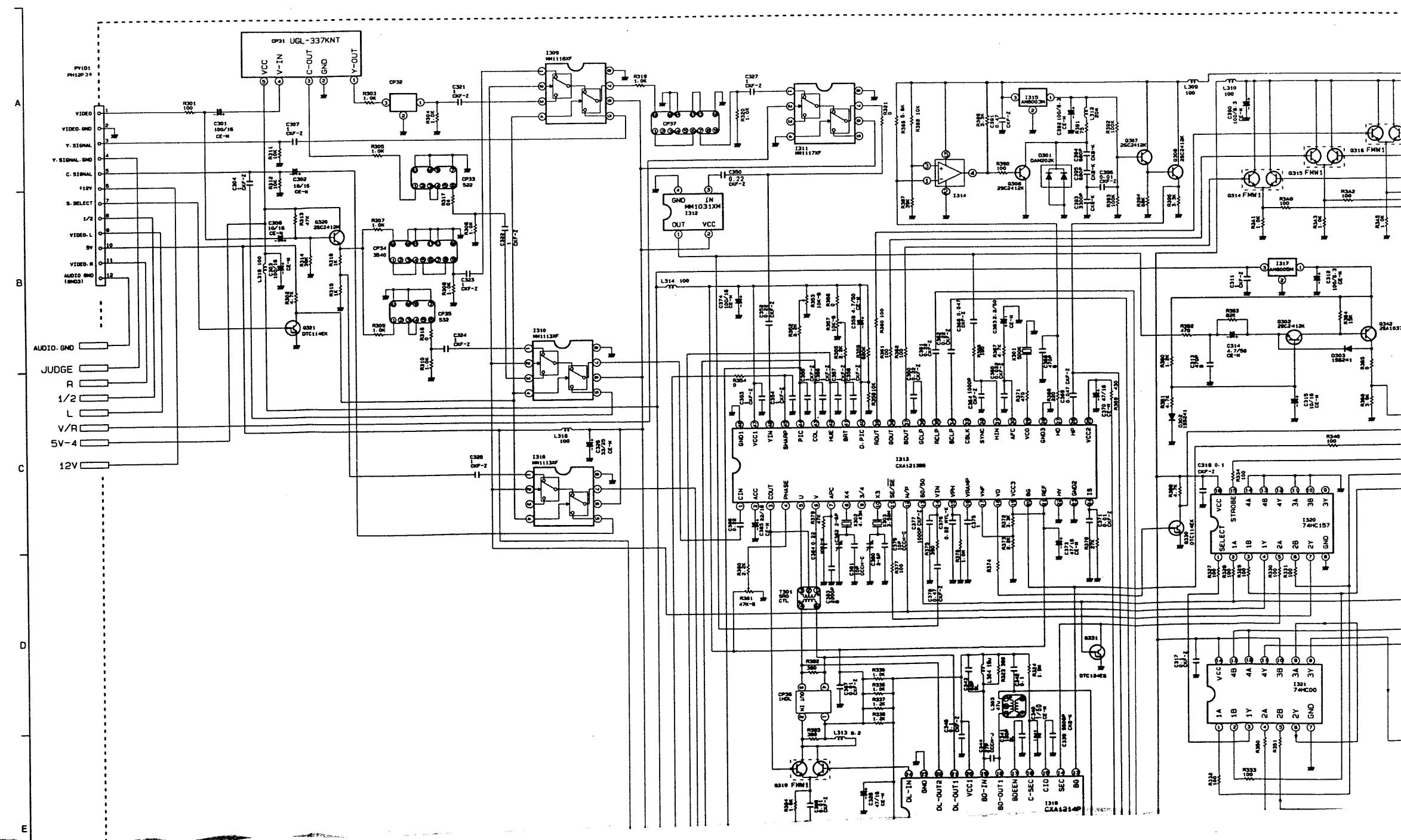
PWB ASS'Y SIGNAL (3/4)

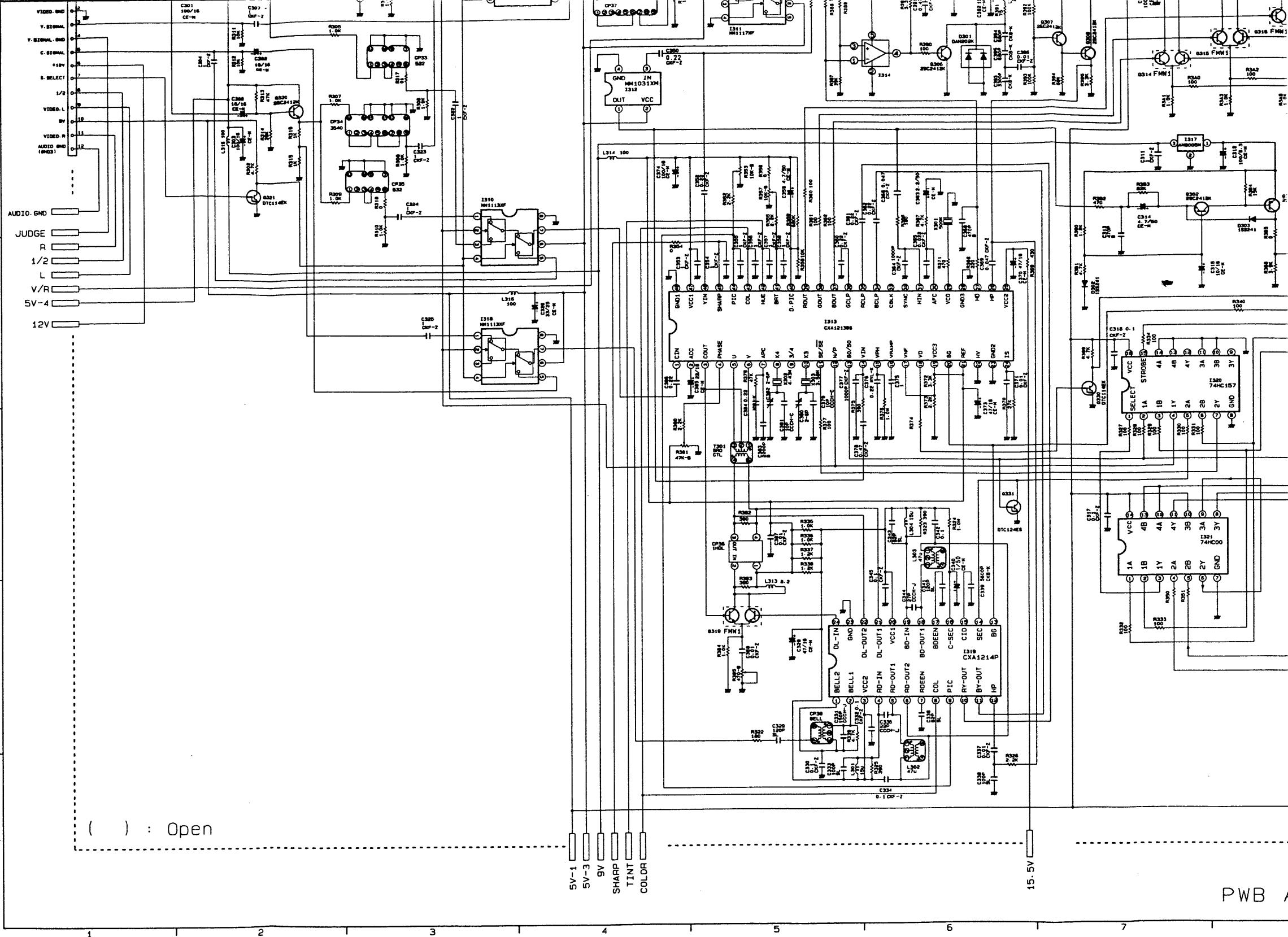


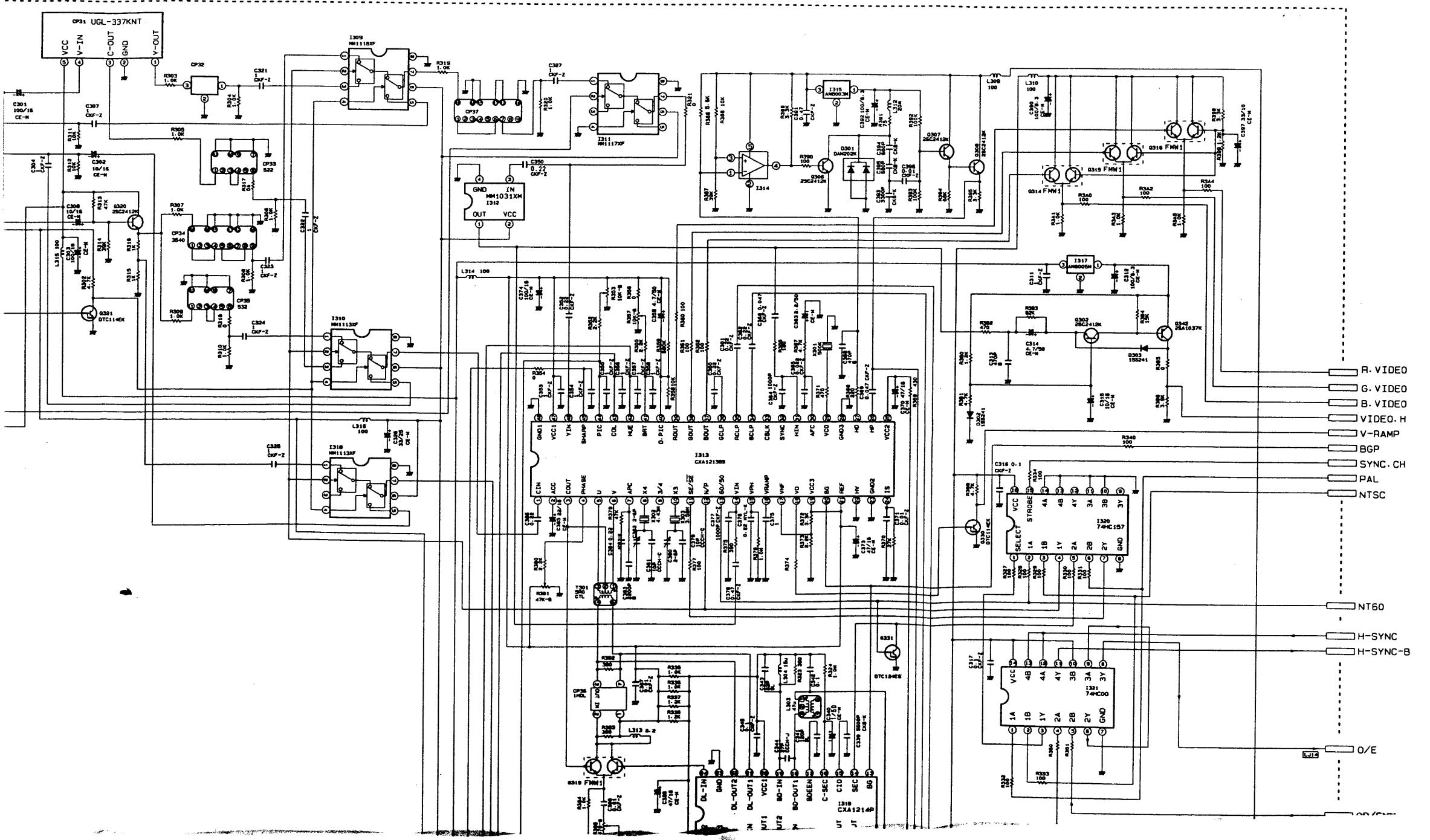


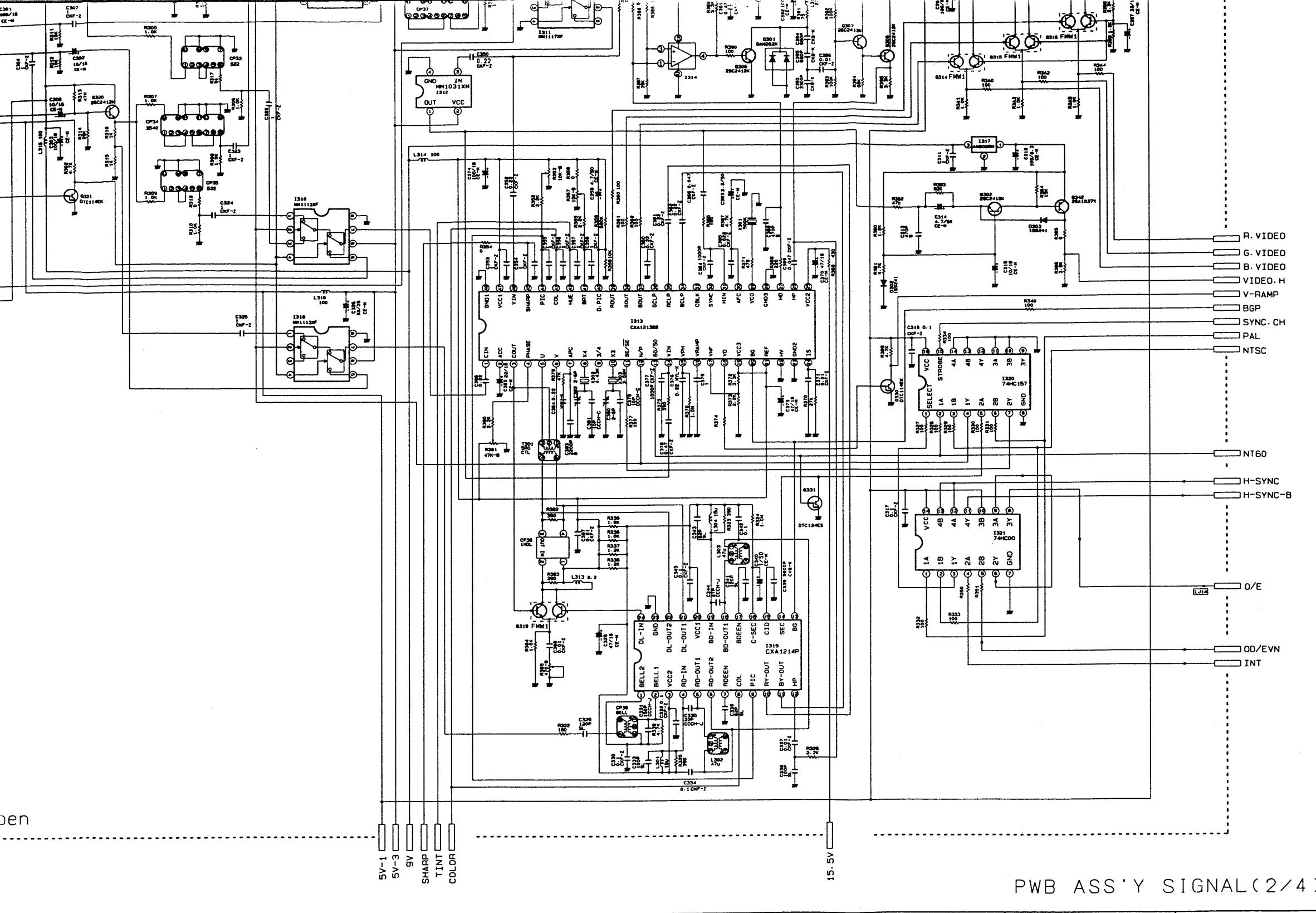




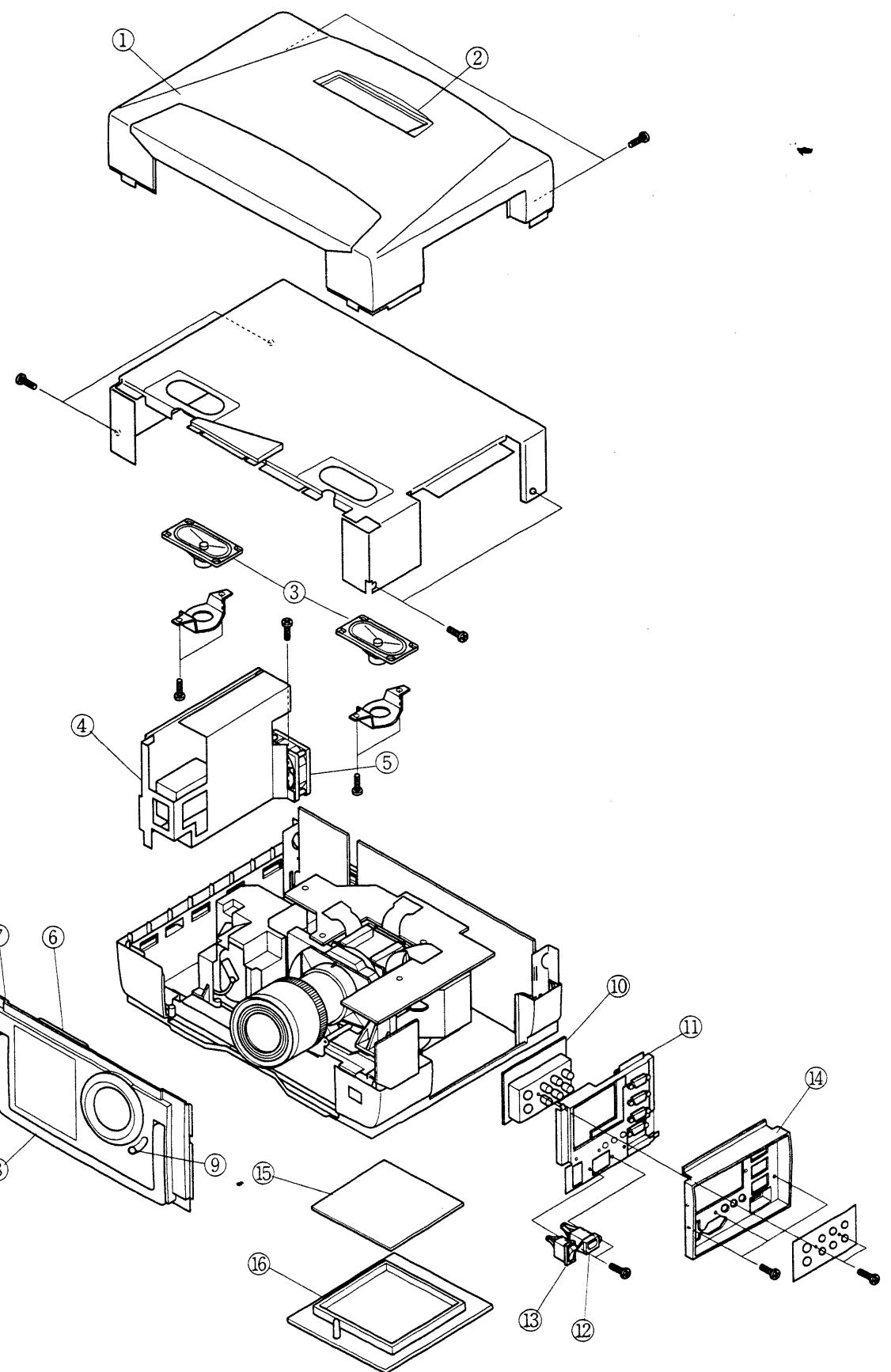


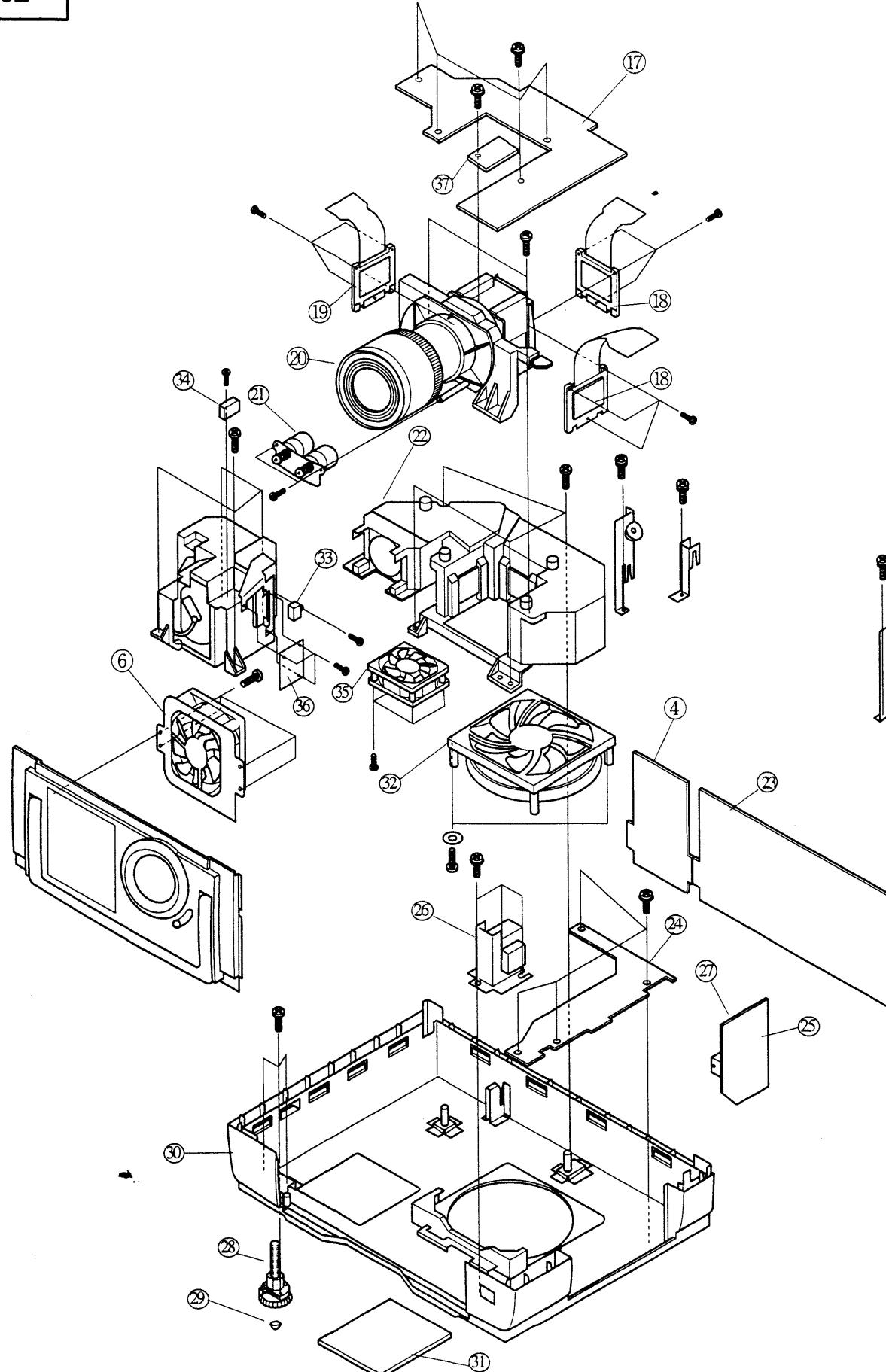






12. Disassembly diagram



**13. Replacement Parts list****REPLACEMENT PARTS LIST**

PRODUCT SAFETY NOTE : Components marked with a Δ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

| SYMBOL NO. | PARTS NO. | DESCRIPTION | SYMBOL NO. | PARTS NO. | DESCRIPTION |
|-------------|-----------|--------------------------------|-------------|-----------|---|
| 1 | QD04856 | UPPER CASE ASS'Y | 29 | PE00051 | RUBBER FOOT |
| 2 | HP00337 | OPERATION PANEL SWITCH UNIT | 30 | QD04865 | BOTTOM CASE ASS'Y |
| 3 | GK00251 | SPEAKER (4 x 7) | 31 | QD05843 | LAMP COVER |
| 4 Δ | HA00431 | POWER UNIT | 32 | GS00211 | DC FAN (INTAKE) |
| 5 | GS00261 | DC FAN (POWER) | 33 Δ | FU00253 | THERMAL SENSOR SWITCH |
| 6 | GS00151 | DC FAN (EXHAUST) | 34 | FH00041 | LIMIT SWITCH (MICRO SWITCH) |
| 7 | QD04871 | FRONT BEZEL ASS'Y | 35 | GS00231 | DC FAN (PBS) |
| 8 | PV00171 | HANDLE | 36 | JP02635 | PWB ASS'Y CORRECTION COLOR |
| 9 | MD02681 | LENS BARRIER UNIT | 37 | JP02691 | PWB ASS'Y SENSOR |
| 10 | JP02215 | PWB ASS'Y INPUT TERMINAL VIDEO | | | |
| 11 Δ | JP02216 | PWB ASS'Y INPUT TERMINAL RGB | | | |
| 12 Δ | EP00011 | AC INLET WITH FILTER | | | |
| 13 | FH00033 | POWER SWITCH | | | |
| 14 | QD04921 | I/O HOLDER | | | |
| 15 | MU00413 | AIR FILTER B | | | |
| 16 | QD04738 | FILTER COVER | | | |
| 17 | JP02185 | PWB ASS'Y DRIVE | | | |
| 18 | UX03911 | LCD MODULE ASS'Y R/G | | | |
| 19 | UX03912 | LCD MODULE ASS'Y B | | | |
| 20 | KS01406 | LENS PRISM ASS'Y | | | |
| 21 | GP00172 | DC MOTOR ASS'Y | | | |
| 22 Δ | UE05251 | DICHROIC OPTICS UNIT | | | |
| 23 | JP02784B | PWB ASS'Y SIGNAL | | | |
| 24 | JP02218 | PWB ASS'Y MOTHER | | | |
| 25 | JP02217 | PWB ASS'Y FILTER | | | |
| 26 | BV00831 | PL CHoke COIL | | | |
| 27 Δ | FN00141 | FUSE | | | |
| 28 | QJ00235 | ADJUST FOOT | | | |
| | | | | | <ONLY CP-L850WX> POWER SUPPLY CORD (UL/CSA TYPE) RS232C CABLE |
| | | | | | <ONLY CP-L850E> SERIAL MOUSE CABLE |

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CP-L850E

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