

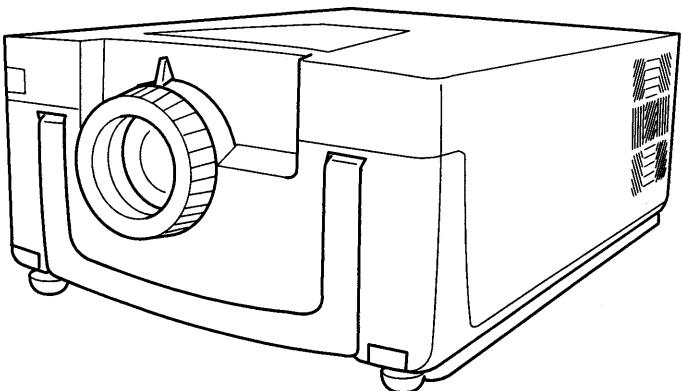
HITACHI

SERVICE MANUAL

YK

No. 0489E

CP-S833W
CP-S833E



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.

Contents

1. Features	2	7. Block diagram	22
2. Specifications	2	8. Wiring diagram	23
3. Names of each part	3	9. Basic circuit diagram	24
4. Adjustment	9	10. Connector connection diagram	39
5. Troubleshooting	12	11. Disassembly diagram	41
6. Service points	19	12. Replacement parts list	43

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

Liquid Crystal Projector

July 1999 Digital Media Systems Division

1. Features

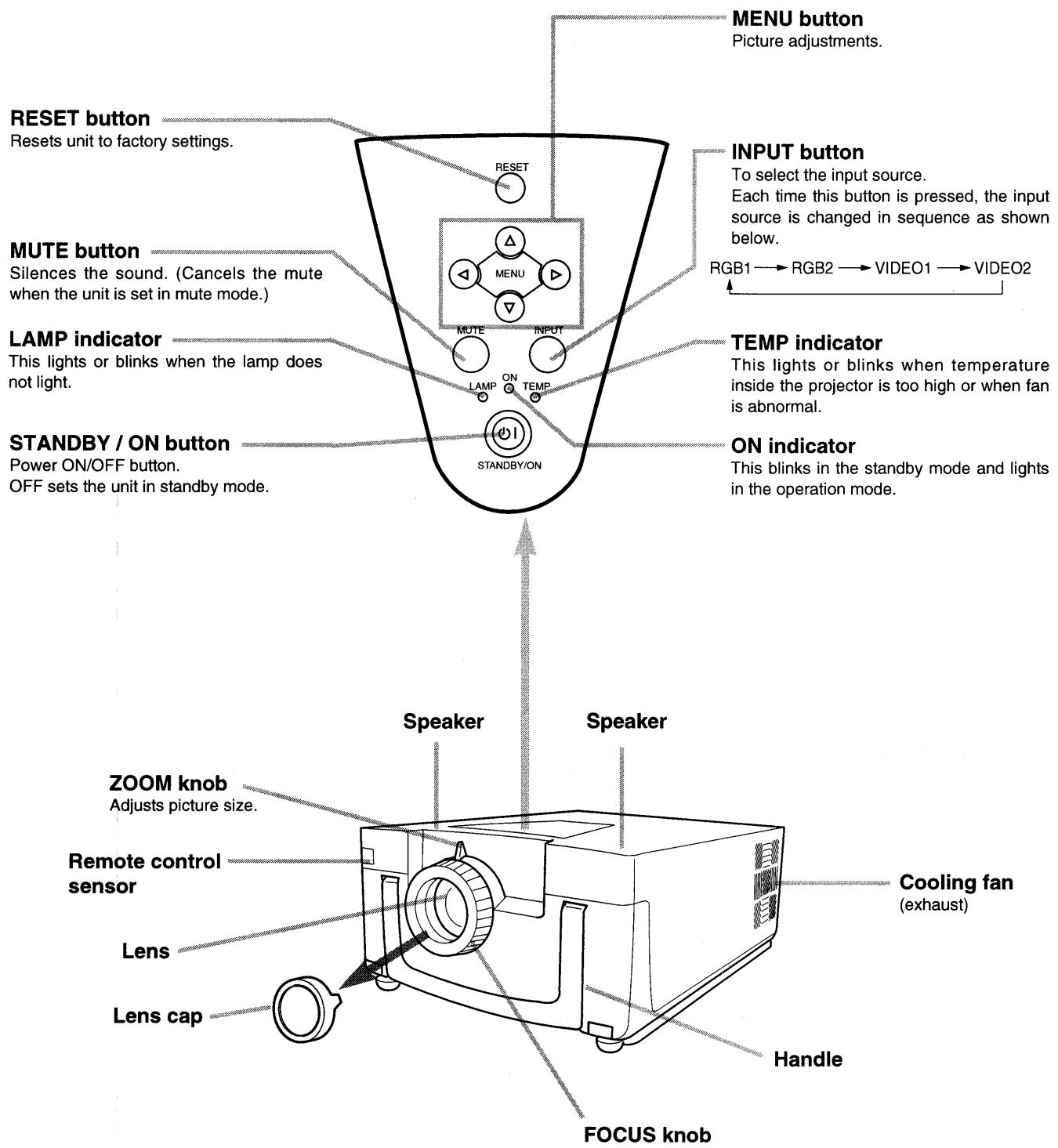
- ▶ 0.9" polysilicon liquid crystal panel
- ▶ 120W UHP lamp
- ▶ Video input compatible with NTSC/PAL/SECAM video signals
- ▶ RGB input compatible with IBM® PCs, Macintosh® and NEC® PC98 computer signals
- ▶ 2 VIDEO IN systems, 2 RGB IN systems, and 1 RGB OUT system
- ▶ RS232C communication
- ▶ Mouse emulation

2. Specifications

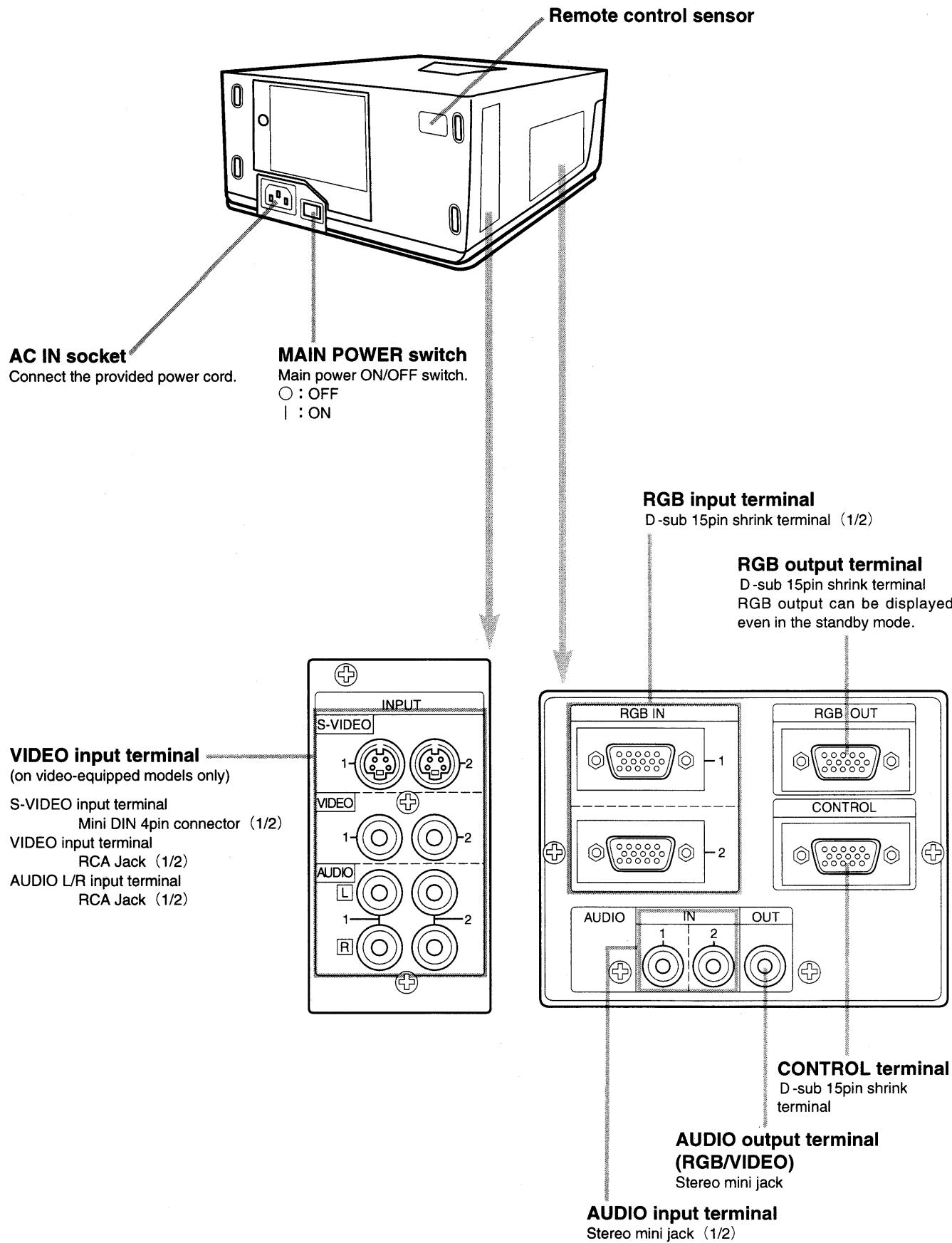
Liquid crystal panel	Drive system	TFT active matrix
	Panel size	0.9inches
	Number of pixels	800 (H) x 600 (V)
Lamp	UHP lamp 120W	
Video input	System	NTSC , 4.43NTSC , PAL , M-PAL , or SECAM
	Level	Composite 1.0Vp-p (75Ω termination) Y/C Y : 1.0Vp-p (75Ω termination) C : 0.286Vp-p (NTSC burst signal, 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 (H/V composite: only 15kHz RGB) TTL level
Audio	Input	200mVrms, 20kΩ or less
	Output	0~200mVrms, 1kΩ
Speaker output		1W + 1W (stereo)
Power supply		AC100~120V/2.6A,AC220~240V/1.3A (50/60Hz)
Power consumption		230W
Dimensions		239 (W) x 125 (H) x 337 (D) mm
Weight		5.4kg
Temperature range		Operation : 0~35°C Storage : -20~60°C
Accessories		Remote control 1 RGB signal cable 1 Batteries LR6 2 Video/Audio cable 1 Power cord 3 Mouse cable 3 MAC adapter 1

3. Names of each part

● Main unit



- Use the remote control transmitter within the range of about 16 feet from the remote control sensor and within 30° to both the left and right.



● Remote control transmitter

STANDBY / ON button

Power ON/OFF button.

OFF sets the unit in standby mode.

FREEZE button

Pressing this button displays a still picture (by freezing).

MAGNIFY button

Pressing this button partially magnifies a displayed picture.

POSITION button

Moves the picture by DISK PAD after pressed the POSITION ON button.

(Only RGB signal input)

While the back light on, you can operate POSITION.

DISK PAD

① When the back light of MENU ON button on, selects or adjusts the menu item.

② When removes the on-screen menus, works as mouse.

③ When the back light of the POSITION ON button on, moves picture.

MENU ON button

Displays the on-screen menus.

And back light on.

While the back light on, you can operate MENU.

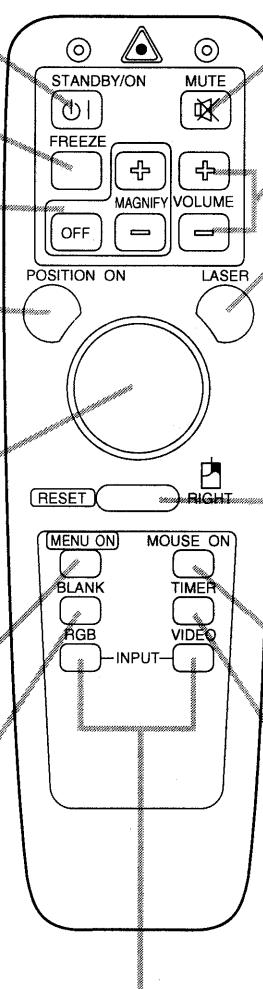
BLANK ON button

① The blank screen which is displayed by pressing BLANK.

② And the blank screen will be revealed down by pressing BLANK again.

INPUT SELECT button

Selects the input source.



MUTE button

Silences the sound. (Cancels the mute when the unit is set in mute mode.)

VOLUME button

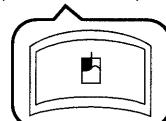
Adjusts volume. The sound is loud or low while pressing the "+" or "-" button.

LASER ON

Laser pointer ON/OFF button. Use as a stick (for indication).

MOUSE LEFT button

Mouse left button is the left click of the mouse. (bottom button)



RESET / RIGHT button

When displays the on-screen menus, resets the menu item to factory settings.

When operates the mouse emulation, works as right click of mouse in computer mode.

After moving the picture (POSITION ON), resets the position to factory settings.

MOUSE ON button

Mouse emulation mode starts.

When menu are open or blank screen is displayed or icon of position is displayed, there are stopped and back light off.

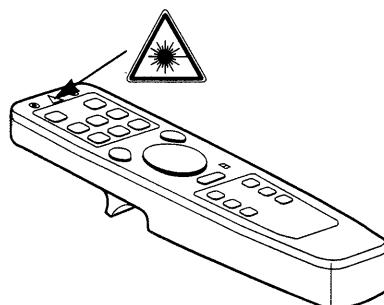
TIMER ON / OFF button

Displays the setting time by count down.



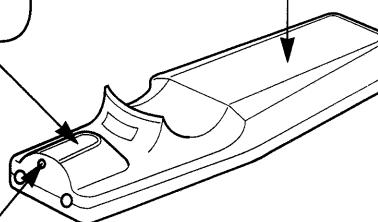
Caution Cautions on use of the laser pointer.

- The laser pointer on the remote control unit radiates the laser beam from the laser aperture.
- This laser pointer used as a stick (for indication).
- Do not stare directly into the laser aperture or radiate the laser beam to other persons as the laser emitted is a class II laser and it could damage your vision, etc.
- Especially pay attention if children are present.
- The three labels below are caution labels for the laser beam:



AVOID EXPOSURE-LASER
RADIATION IS EMITTED
FROM THIS APERTURE

LASER APERTURE



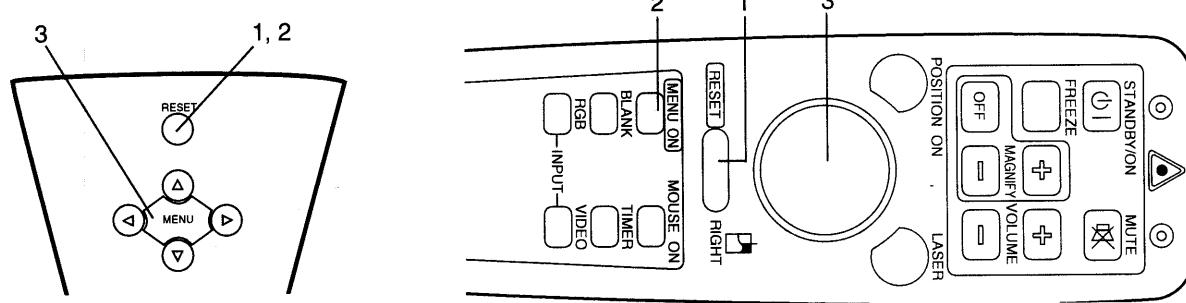
Function for service

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 MENU. (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 on projector or remote control MENU ON button during displaying the lamp used time.
- 3) Select the "0" on the screen using the MENU (◀) button or MENU STICK SWITCH.

LAMP 1700 hr

LAMP 1700 □→0 ■ CANCEL

Message table

On-screen display

The following messages are displayed on the screen.

"CHANGE THE LAMP" "AFTER REPLACING LAMP, RESET THE LAMP TIMER"	Lamp has 1,700 hours on it and may need to be changed.
"CHANGE THE LAMP" "AFTER REPLACING LAMP, RESET THE LAMP TIMER" "THE POWER WILL TURN OFF AFTER 20 Hr."	Lamp has 1,979 hours on it. See P.4 "Reset the lamp timer"
Blinking of "CHANGE THE LAMP" "AFTER REPLACING LAMP, RESET THE LAMP TIMER" "THE POWER WILL TURN OFF AFTER 0 Hr."	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

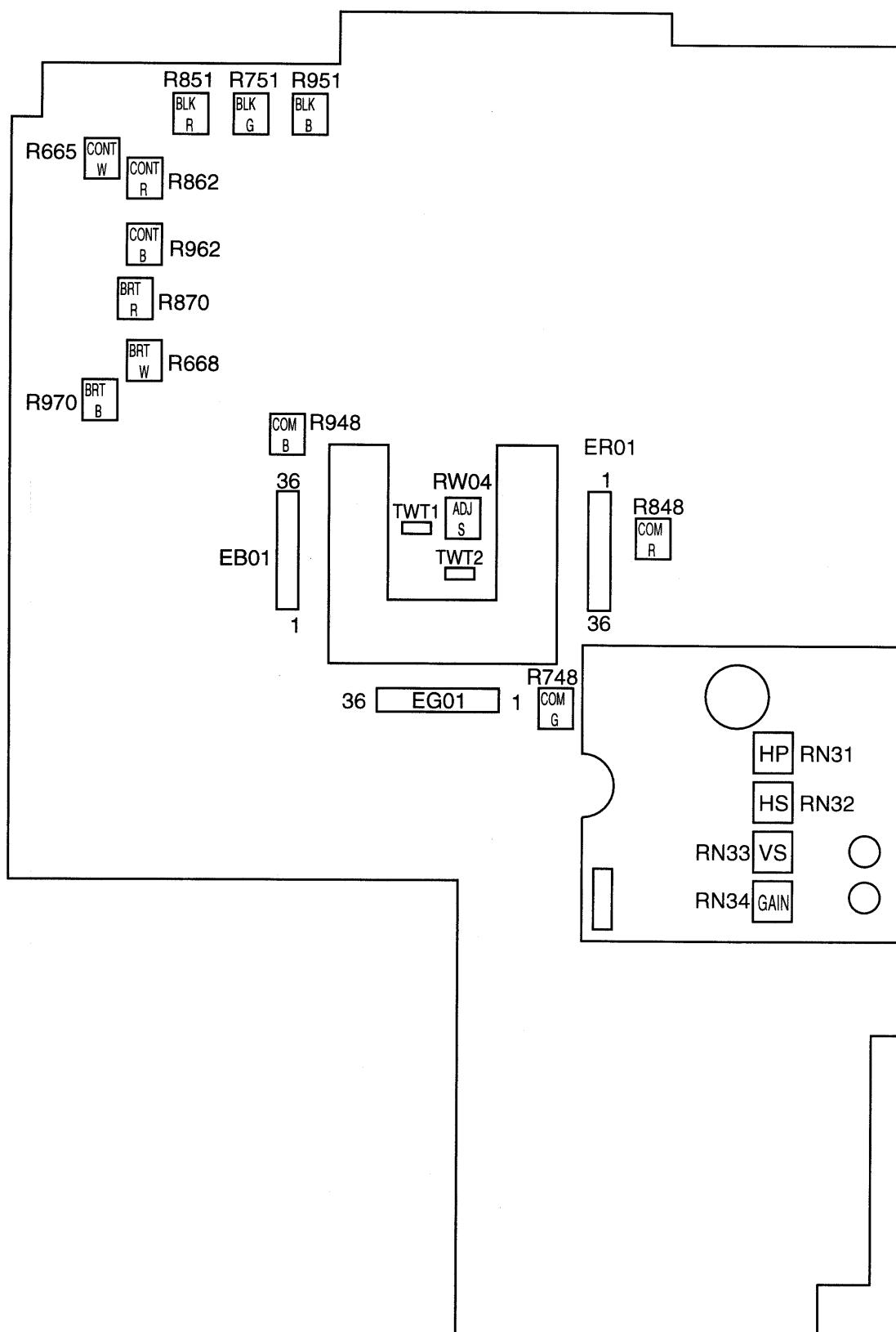
The ON indicator, LAMP indicator and TEMP indicator will light or blink in the following cases.

ON indicator	LAMP indicator	TEMP indicator	Meaning	Remedy
Lights orange	Goes off	Goes off	Standby mode	_____
Blinks green	Goes off	Goes off	During warming up	_____
Lights green	Goes off	Goes off	During operation	_____
Blinks orange	Goes off	Goes off	During cooling down	_____
Lights red	Lights red	Goes off	Lamp cannot light	Cool projector by power off for 60 minutes. If the indicator is still lit, lamp may be defective. Replace.
Lights red	Blinks red	Goes off	Lamp is not inserted	Securely insert the lamp.
Lights red	Goes off	Lights red	Temperature inside too hight	Correctly reinstall so as not to block ventilation holes.
Lights red	Goes off	Blinks red	Cooling fan accidented	Replace fan.
Blinks red	Blinks red	Goes off	Accumulated lamp operation time has exceeded 2,000 hours	Replace lamp and reset the accumulated lamp operation time.

When inside temperature becomes high because ventilation holes are blocked, normally, TEMP indicator will light red. However, to protect the projector, the lamp may be turned off and at this time LAMP indicator may light red.

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 zoom set to the widest.

2. Adjustment common voltage (flicker) .

Refer to the attached drawing.

① Input 16 steps monochrome green with a timing signal of SVGA VESA(60).

Adjust R748 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 R848 so that brightness at about 30% part of 16 steps is the darkest.

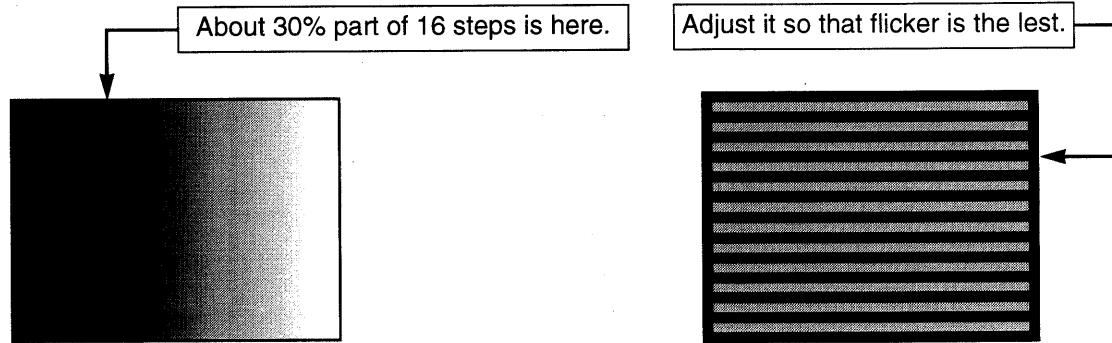
③ Press the RESET button of the remote control transmitter to set picture adjustment to NORMAL.

③ Input 16 steps monochrome blue with a timing signal of SVGA VESA(60).

Adjust R948 so that brightness at about 30% part of 16 steps is the darkest.

④ Input horizontal green line (gray/black) signal with a timing signal of SVGA VESA(60).

Adjust R748 so that flicker is the least.



Adjustment Procedure

1. Adjustment of color correction circuit.

① Input gray at 0.35Vp-p with a timing signal of SVGA VESA(60).

② Set RN34(GAIN) to minimum.

③ Check the color uniformity of image.

④ Continue this adjustment when color uniformity is not good.

⑤ Set RN34(GAIN) to maximum and RN31(HP), RN32(HS) and RN33(VP) to mechanical center.

⑥ Adjust RN32(HS) so that color balance of left and right side is best,...visual check.

RN32 is control correction wave for Horizontal Saw.

⑦ Adjust RN31(HP) so that color balance of center and side is best,...visual check.

RN31 is control correction wave for Horizontal Parabola.

⑧ Adjust RN33(VS) so that color balance of top and bottom is best,...visual check.

RN33 is control correction wave for Vertical Saw.

2. Adjustment of white balance.

- ① Preset R751(G BLK), R851(R BLK) and R951(B BLK) to the mechanical center.
- ② Input 16 steps monochrome green at 0.7Vp-p with a timing signal of SVGA VESA(60).
- ③ Adjust R665(W SUB CONTRAST) and R668(W SUB BRIGHT) so that brightness of 16 steps is best,...visual check.
- ④ Input gray pattern at 0.21Vp-p with a timing signal of SVGA VESA(60).
- ⑤ Adjust R870(R SUB BRIGHT) and R970(B SUB BRIGHT) so that the chromaticity at the center of the picture is $x=0.280\pm0.005, y=0.340\pm0.005$ (middle-brightness white balance)
- ⑥ Input gray pattern at 0.52Vp-p with a timing signal of SVGA VESA(60).

4 - 3 Panel phase adjustment

Adjustment procedure

- ① As following procedure, adjust it with each timing signal ; SVGA VESA(85), MAC16, SVGA VESA (75), SVGA VESA(56), VGA VESA(60) and XGA VESA(60).
- ② Input cross hatch monochrome green at 0.7Vp-p with a timing signal of SVGA VESA(60), and adjust H.PHASE of menu so that the best at vertical lines.
- ③ Input character signal monochrome green at 0.35Vp-p.

(CHARACTER Format : 1 Code:83hex []
Font:16*16 Cel:16*16)



4 - 4 Sensor adjustment

Preparations for adjustment

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

- ⑦ Adjust R862(R SUB CONTRAST) and R962(B SUB CONTRAST) so that the chromaticity at the center of the picture is $x=0.280\pm0.005, y=0.345\pm0.005$ (hi-brightness white balance)
- ⑧ Input gray pattern at 0.07Vp-p with a timing signal of SVGA VESA(60).
- ⑨ Adjust R851(R BLK) and R951(B BLK) so that the chromaticity at the center of the picture is $x=0.270\pm0.01, y=0.340\pm0.01$ (low-brightness white balance)
- ⑩ Repeat ④ to ⑨ and adjust middle, hi and low-brightness white balance.
note When majoring and adjustment using Minolta CL-100.

- ④ Adjust "PANEL PHASE" in "S/H" of adjustment-menu (*) so that the lest vertical stripe pattern.
Note:Never change "S/H PHASE" of adjustment-menu (*).

-> Fix "0", only XGA VESA(60) fix "1".

* how to set up adjustment-menu

1st Push MENU button, 2nd Push RESET button and keep 5sec. or more, 3rd Select S/H of head line.

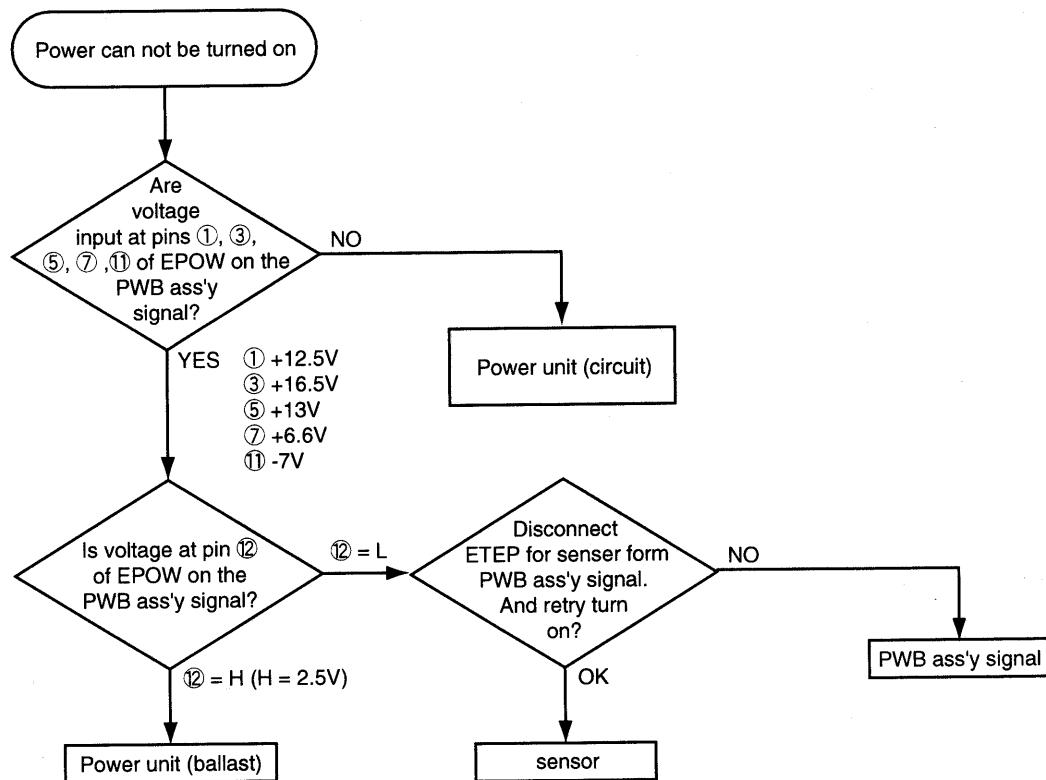
Adjustment procedure

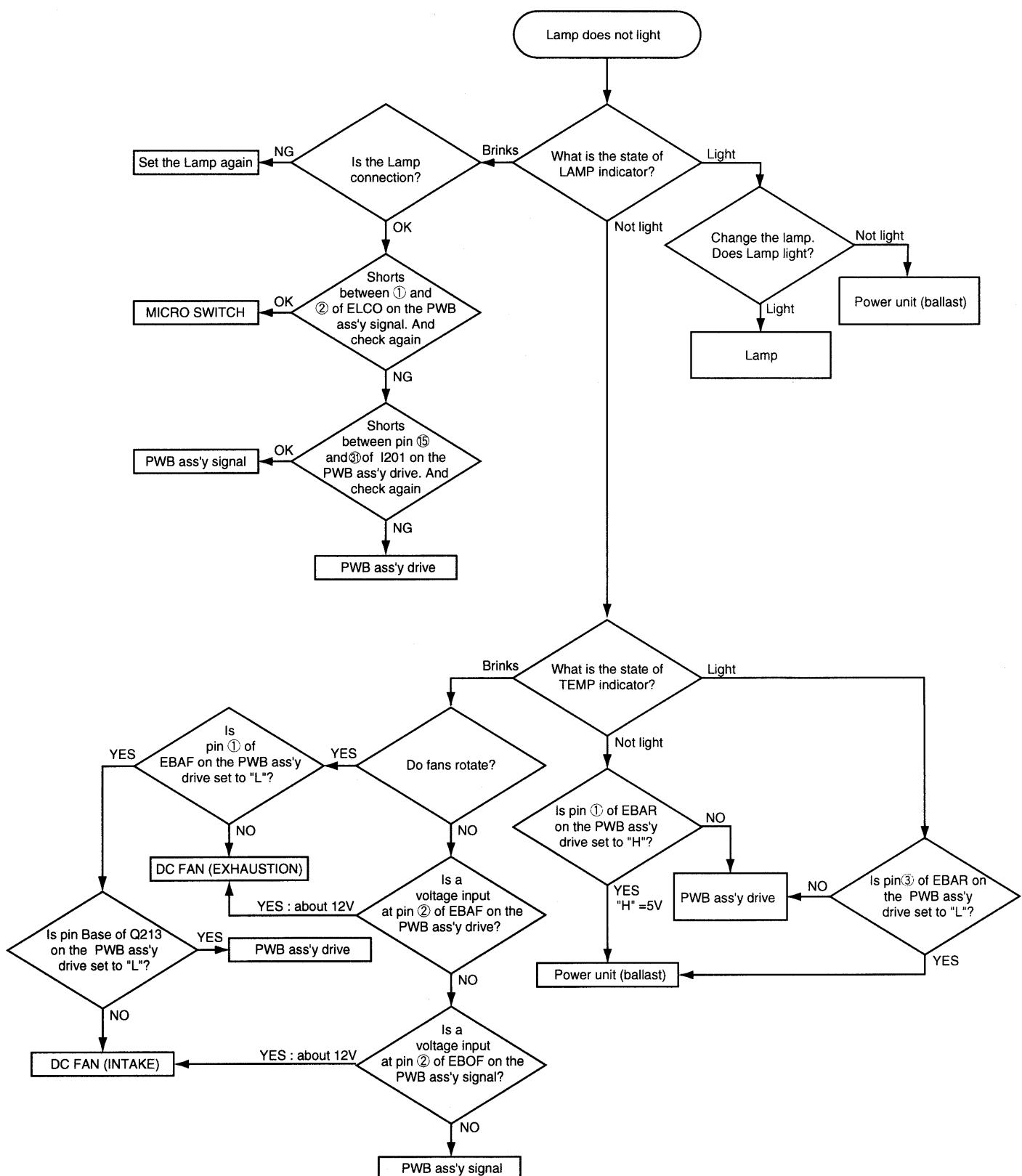
Adjust RW04 to get following values.

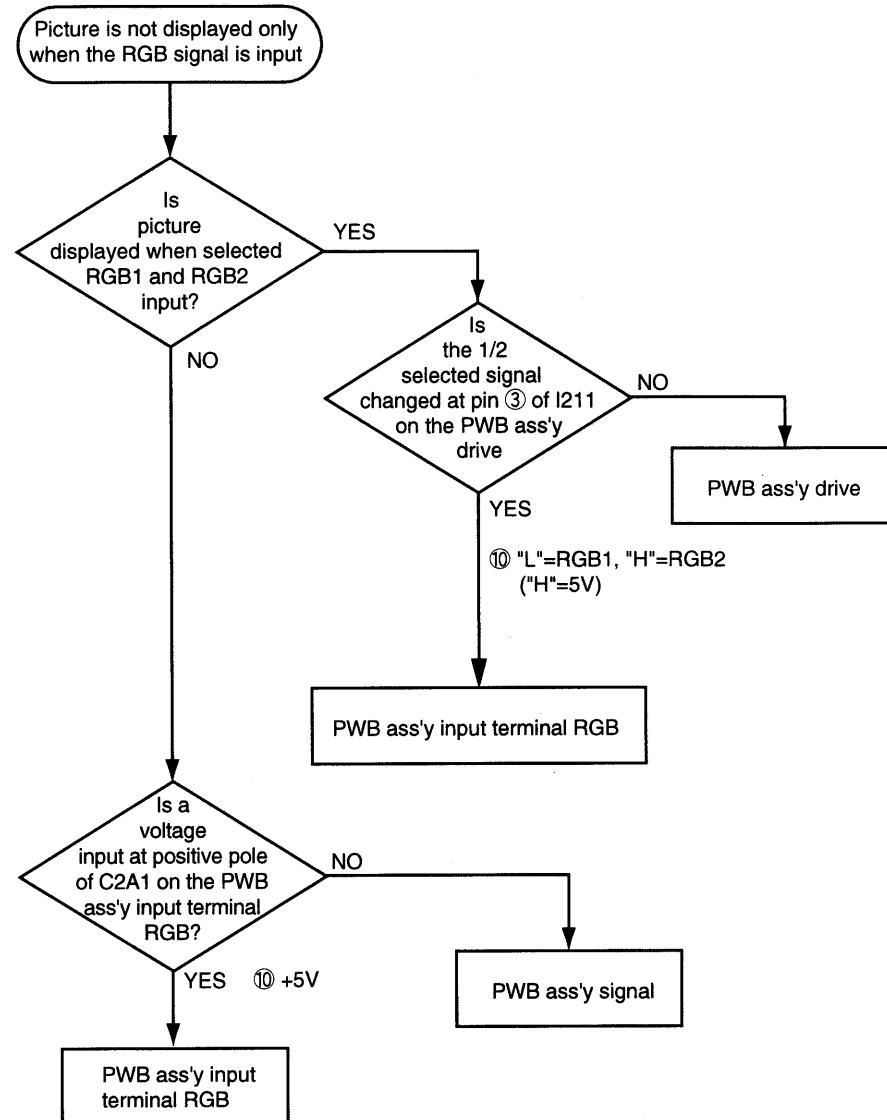
0.018 ± 0.002 [V]

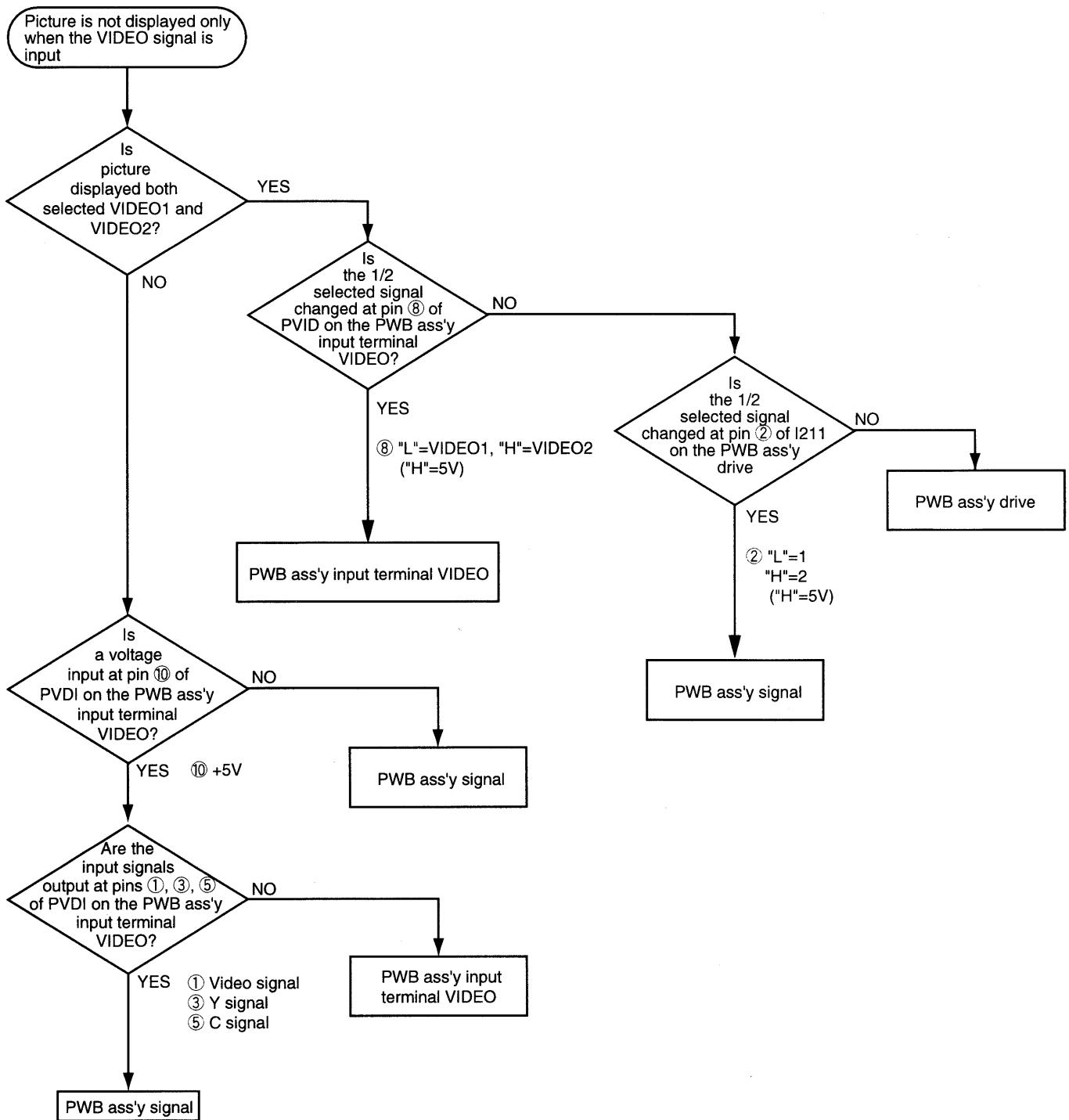
(Connect \oplus side to TWT1 and \ominus side to TWT2 by digital meter.)

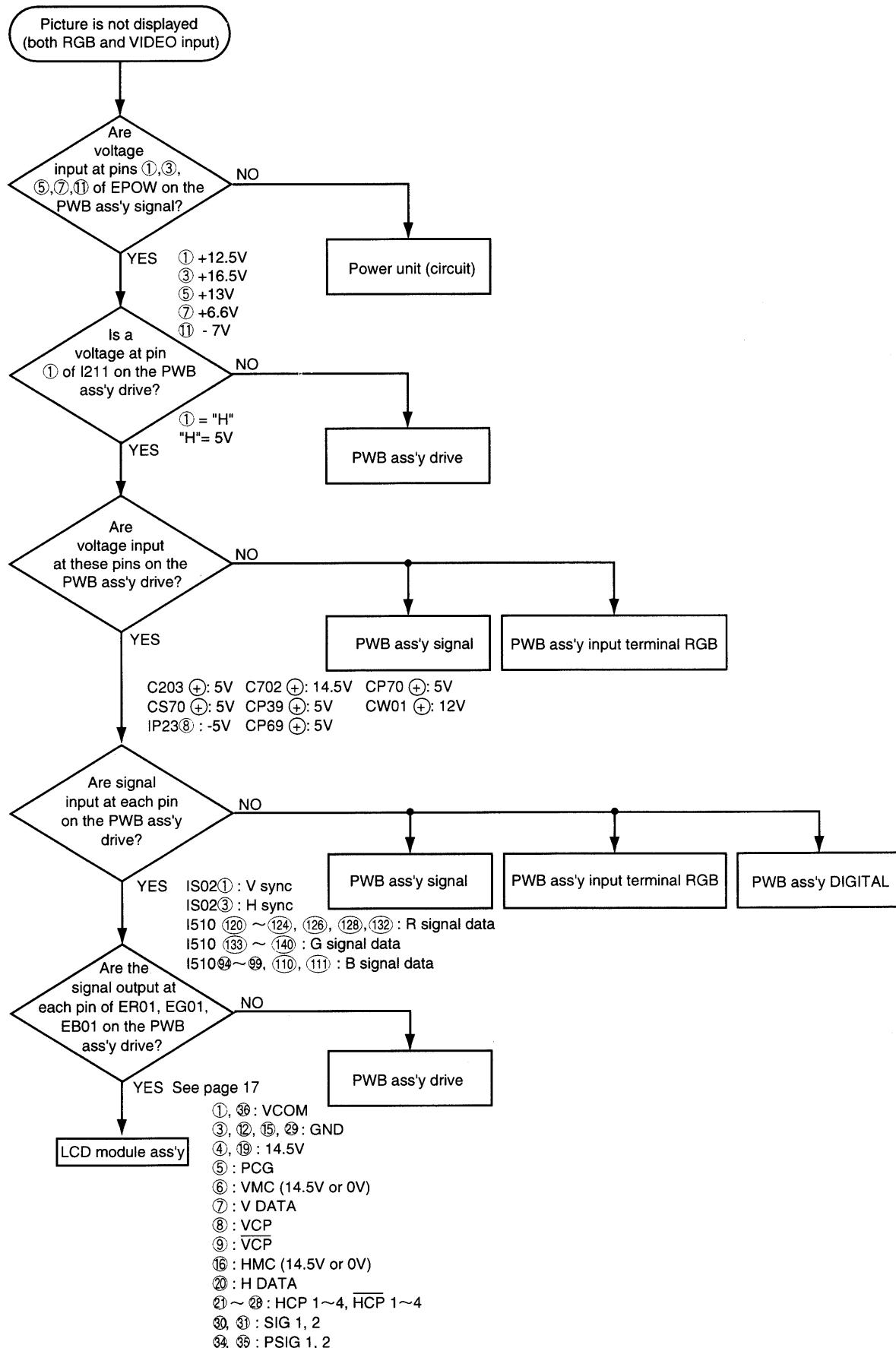
5. Troubleshooting

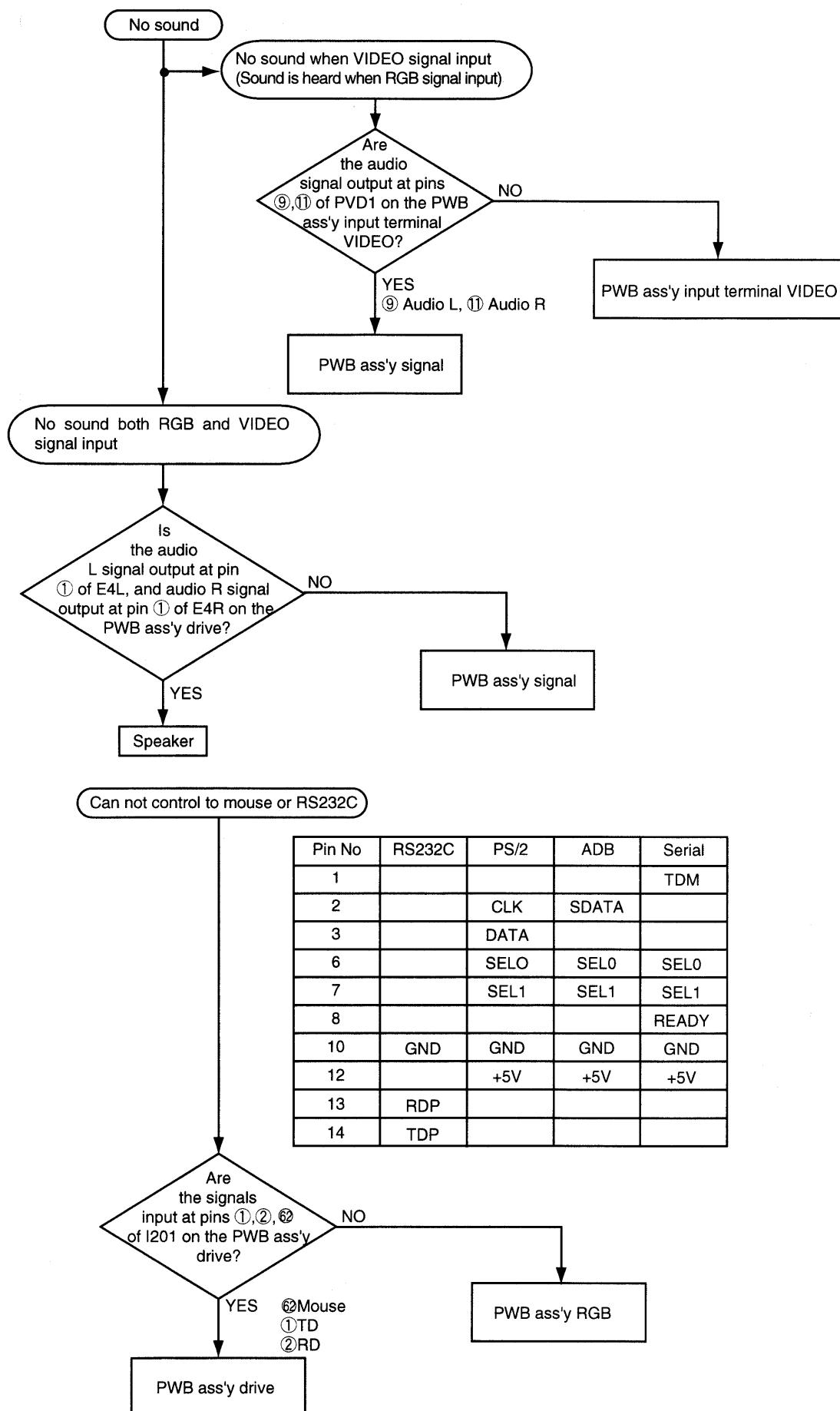






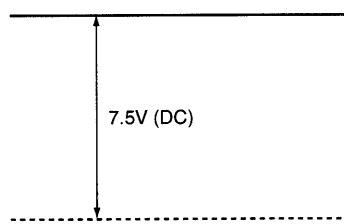




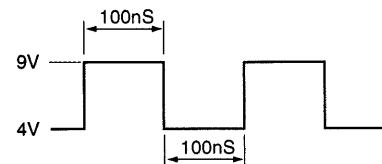


Signal waveforms of P501, P601 and P701 (Input signal is VGA3)

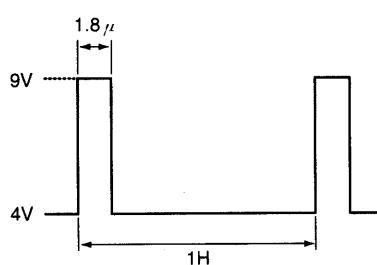
①, ③6 V COM



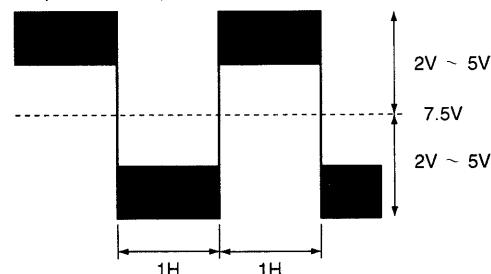
②1 ~ ②8 HCP



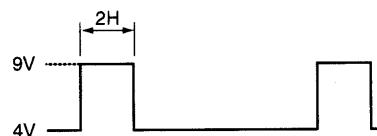
⑤ PCG



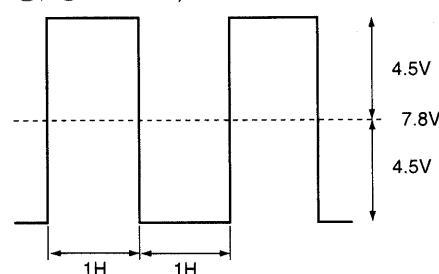
⑩, ⑪ SIG 1, 2



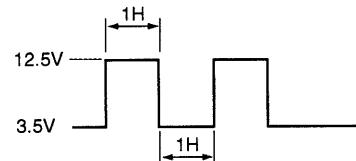
⑥ V DATA



⑭, ⑮ PSIG 1, 2



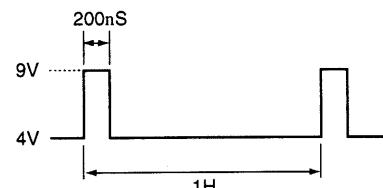
⑧ VCP ⑨ \overline{VCP}



⑯ HMC

EG01 14.5V
ER01, EB01 GND

⑰ H DATA

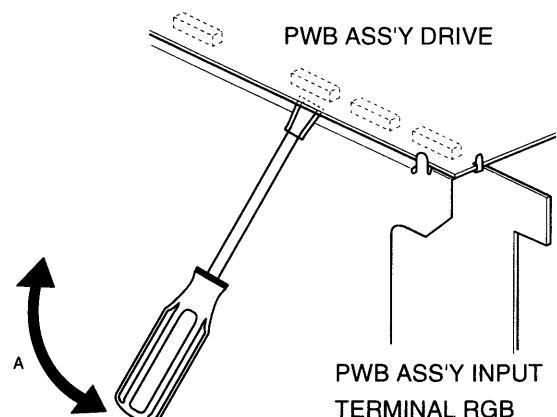


6. Service points

6 - 1 POINT

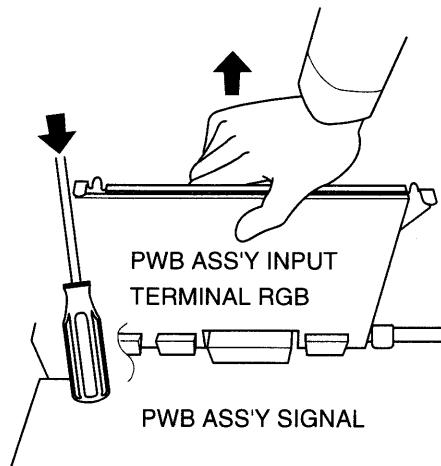
● Before Removing the Drive Base

Note that when removing the Drive Base, if you try to pull it by force, you may damage the connector linked with the RGB Input Terminal Base. When removing the Drive Base, first insert a flat-blade screwdriver with its end protected with adhesive tape etc. into the slot between the Drive Base and the RGB Input Terminal Base. Then please move the screwdriver in the direction of the arrow, in a way that it does not damage the Drive Base.



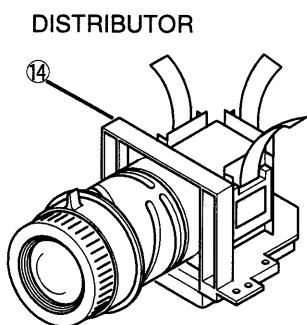
● Before Removing the RGB Input Terminal Base

When removing the RGB Input Terminal Base, the signal base may bend and get damaged. When removing the RGB Input Terminal Base, please push the signal base with a screwdriver's grip etc. in a way that the base does not get damaged, then remove the RGB Input Terminal Base.



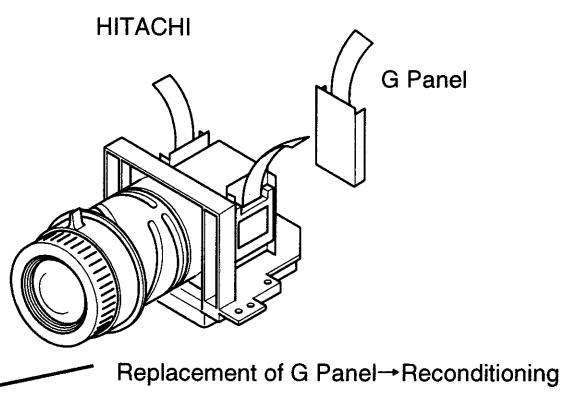
● Before Replacing the Panel / Lens Prism

You should not replace separately the parts of the liquid crystal Panel / Lens Prism because it works properly only when used together. Therefore, regarding these parts, you can either replace part NO. 14, Panel / Lens Prism Assembly, or send the whole unit NO. 14 back to Hitachi, where we will replace the malfunctioning part, recondition the device and send it back to you. In that case please contact our distributor.



- Do not disassemble the unit because replacement of separate parts is not possible.
- For repairs of the product, please contact our distributor.

Return



6 - 2 Removing the PWB ass'y input terminal Video, the upper case, the PWB ass'y drive, the PWB ass'y digital, the PWB ass'y input terminal RGB, the dichroic optics unit, the lens prism unit, the DC fan (exhaust) and the DC fan (intake). (Fig.6-2)

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

1. Remove a screw B0.
2. Disconnect a connector for PWB ass'y signal from the PWB ass'y input terminal video.

(2) Removing the upper case.

1. Remove the PWB ass'y input terminal video.

(Refer to item 6-2 (1).)

Please remove carefully the upper case because the speaker connectors are short wire.

2. Remove 5 screws B1 and remove the upper case ass'y and disconnect the operation panel connector and 2 connectors for speaker from PWB ass'y drive.

(3) Removing the PWB ass'y drive.

1. Remove the PWB ass'y input terminal video.

(Refer to item 6-2 (1).)

2. Remove the upper case.

(Refer to item 6-2 (2).)

3. Release the lock of the connector housing and disconnect the FPC of the LCD module ass'y.

4. Remove 4 screws B2 and disconnect 3 connectors for the DC fans and the power unit.

5. Remove PWB ass'y drive form PWB ass'y input terminal RGB.

(4) Removing the PWB ass'y digital.

1. Remove the PWB ass'y input terminal video.

(Refer to item 6-2 (1).)

2. Remove the upper case.

(Refer to item 6-2 (2).)

3. Removing the PWB ass'y drive.

(Refer to item 6-2 (3).)

4. Remove 2 screws B3 and remove the PWB ass'y digital form PWB ass'y drive.

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

1. Remove the PWB ass'y input terminal video.

(Refer to item 6-2 (1).)

2. Remove the upper case.

(Refer to item 6-2 (2).)

3. Remove the PWB ass'y drive.

(Refer to item 6-2 (3).)

4. Remove a screw B4 and disconnect 3 connectors and remove the PWB ass'y input terminal RGB.

(6) Removing the dichroic optics unit.

1. Remove the PWB ass'y input terminal video.

(Refer to item 6-2 (1).)

2. Remove the upper case.

(Refer to item 6-2 (2).)

3. Remove the PWB ass'y drive.

(Refer to item 6-2 (3).)

4. Removing the PWB ass'y input terminal RGB.

(Refer to item 6-2 (4).)

5. Remove 3 screws B5 and disconnect a connector for DC fan (intake).

6. Remove 3 screws B6 and disconnect a connector for the lamp.

(7) Removing the lens prism unit.

1. Remove the PWB ass'y input terminal video.
(Refer to item 6-2 (1).)
2. Remove the upper case.
(Refer to item 6-2 (2).)
3. Remove the PWB ass'y drive.
(Refer to item 6-2 (3).)
4. Removing the PWB ass'y input terminal RGB.
(Refer to item 6-2 (4).)
5. Removing the dichroic optics unit.
(Refer to item 6-2 (5).)
6. Remove 2 screws B7

(8) Removing the DC fan (exhaust).

1. Remove the PWB ass'y input terminal video.
(Refer to item 6-2 (1).)
2. Remove the upper case.
(Refer to item 6-2 (2).)
3. Remove the PWB ass'y drive.
(Refer to item 6-2 (3).)
4. Removing the PWB ass'y input terminal RGB.
(Refer to item 6-2 (4).)
5. Removing the dichroic optics unit.
(Refer to item 6-2 (5).)
6. Remove 3 screws B8

(9) Removing the DC fan (intake).

1. Remove the PWB ass'y input terminal video.
(Refer to item 6-2 (1).)
2. Remove the upper case.
(Refer to item 6-2 (2).)
3. Remove the PWB ass'y drive.
(Refer to item 6-2 (3).)
4. Removing the PWB ass'y input terminal RGB.
(Refer to item 6-2 (4).)
5. Removing the dichroic optics unit.
(Refer to item 6-2 (5).)
6. Remove 3 screws B9

6 - 3 Removing power unit (ballast), the DC fan (power), the power unit (circuit) and PWB ass'y signal.

Removing the PWB ass'y input terminal Video, the upper case, the PWB ass'y drive, the PWB ass'y digital, the PWB ass'y input terminal RGB, the dichroic optics unit, the lens prism unit, the DC fan (exhaust) and the DC fan (intake). (Refer to 6-2.)

(1) Removing the power unit.

1. Remove 3 screws C1.

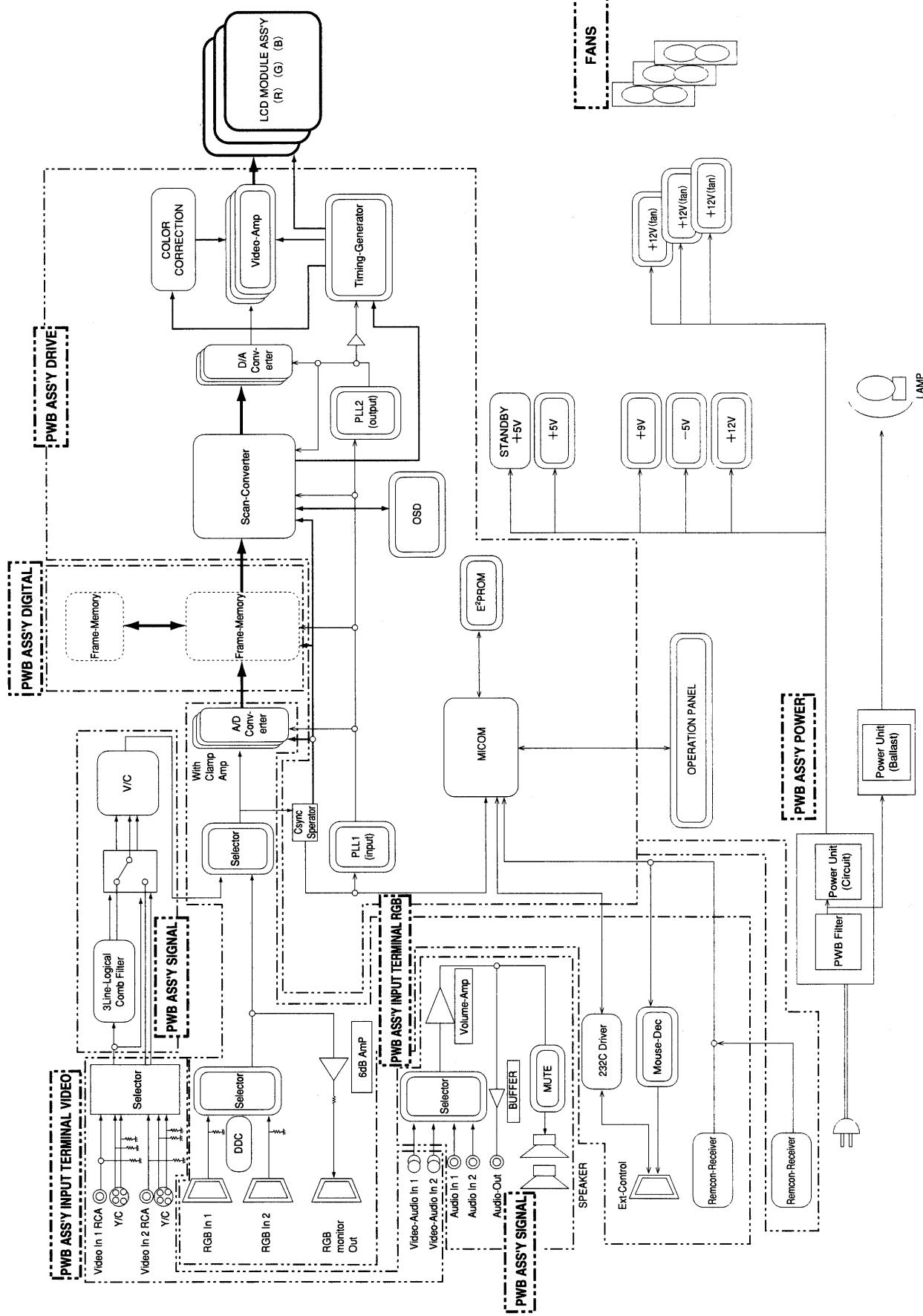
(2) Removing the DC fan (power).

1. Remove 4 screws C2.

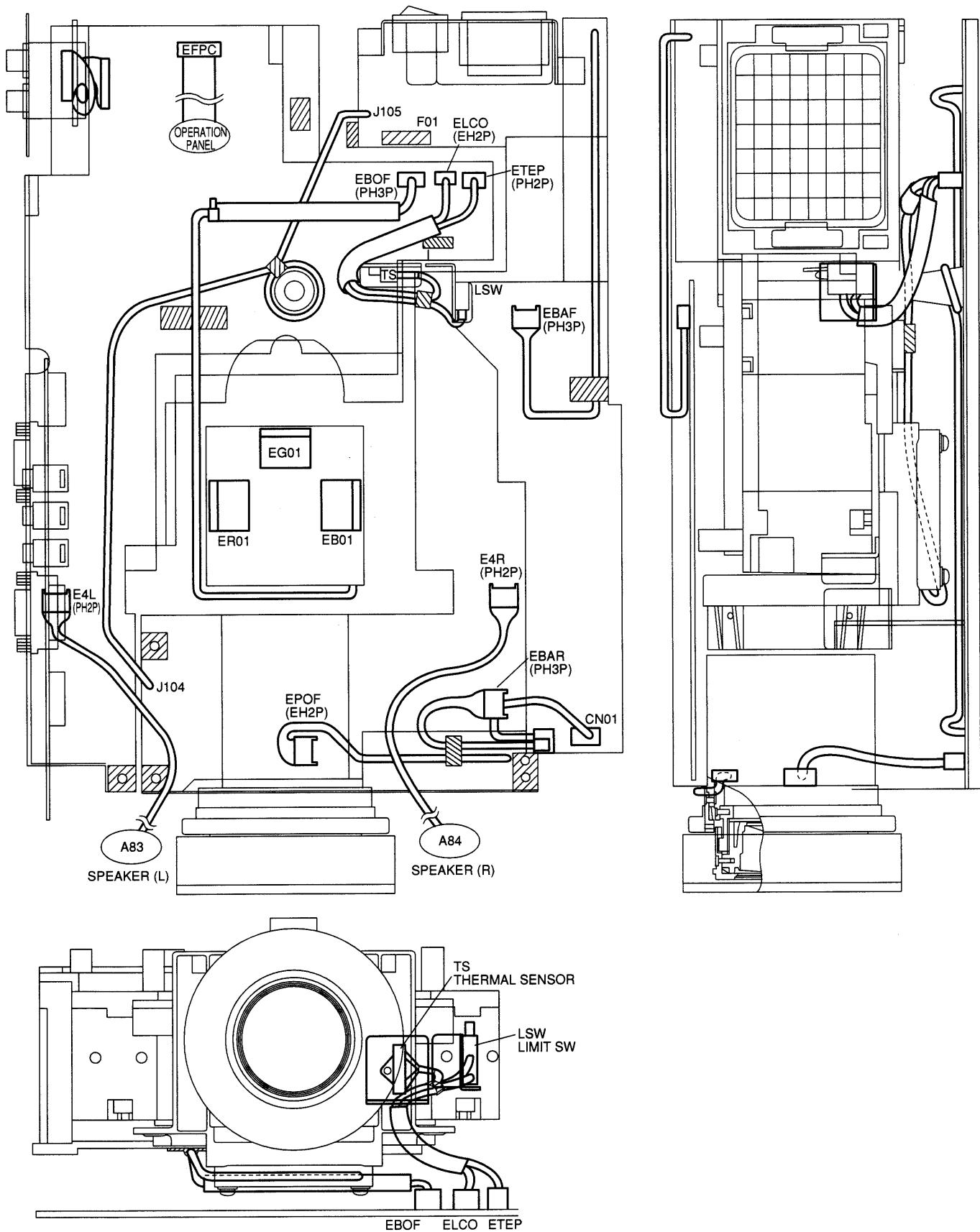
(3) Removing PWB ass'y signal.

1. Release 4 lock claws.

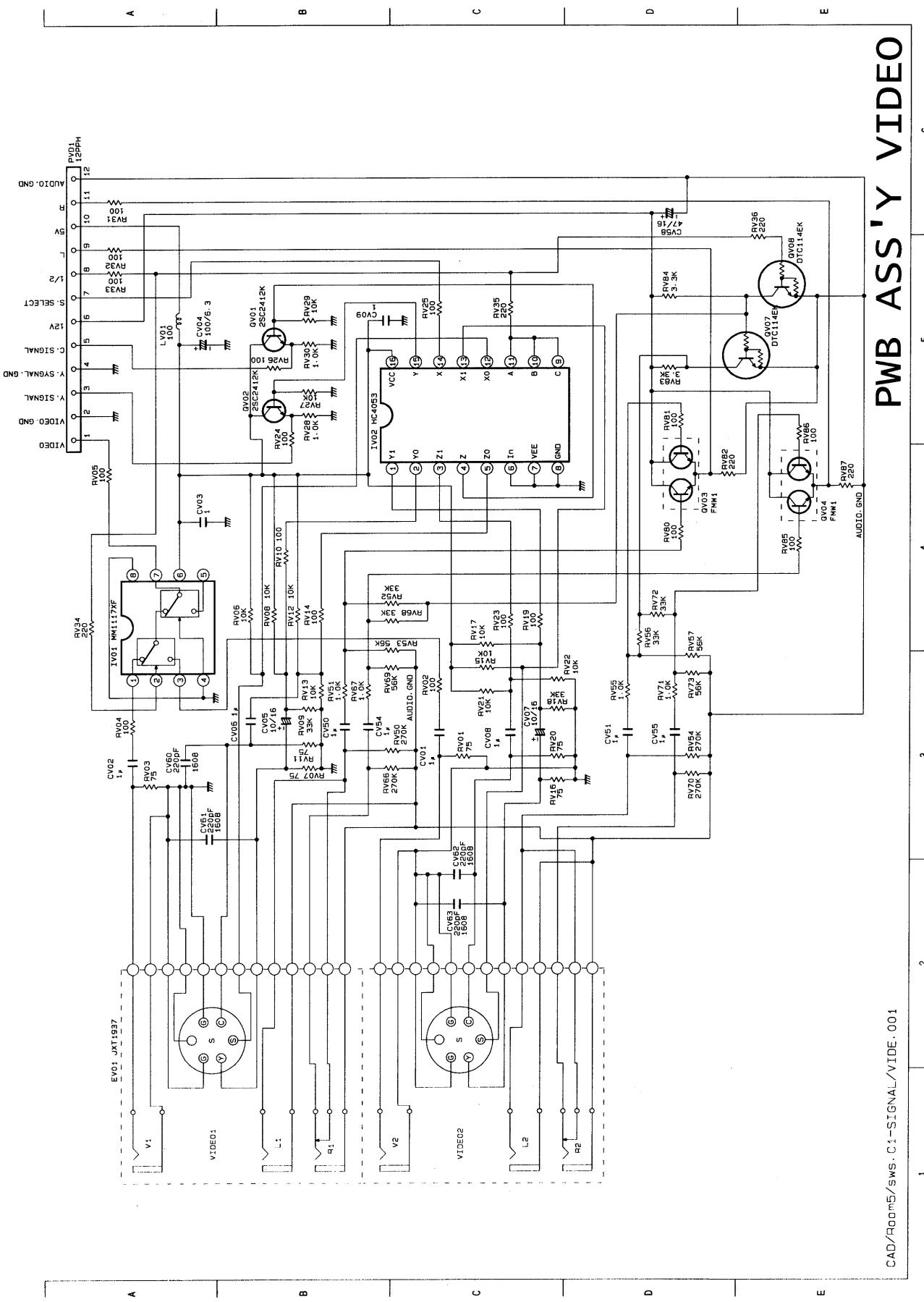
7. Block diagram



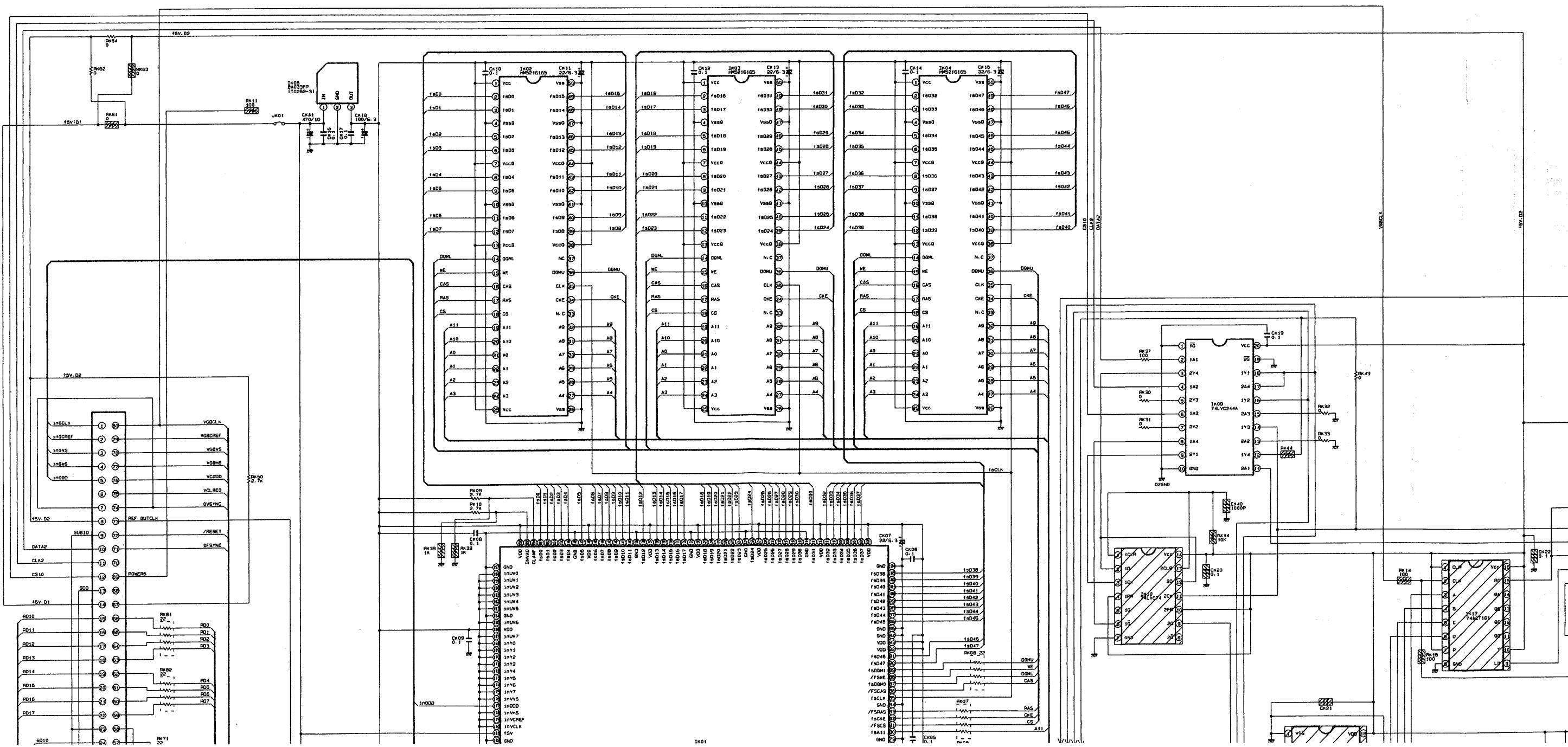
8. Wiring diagram

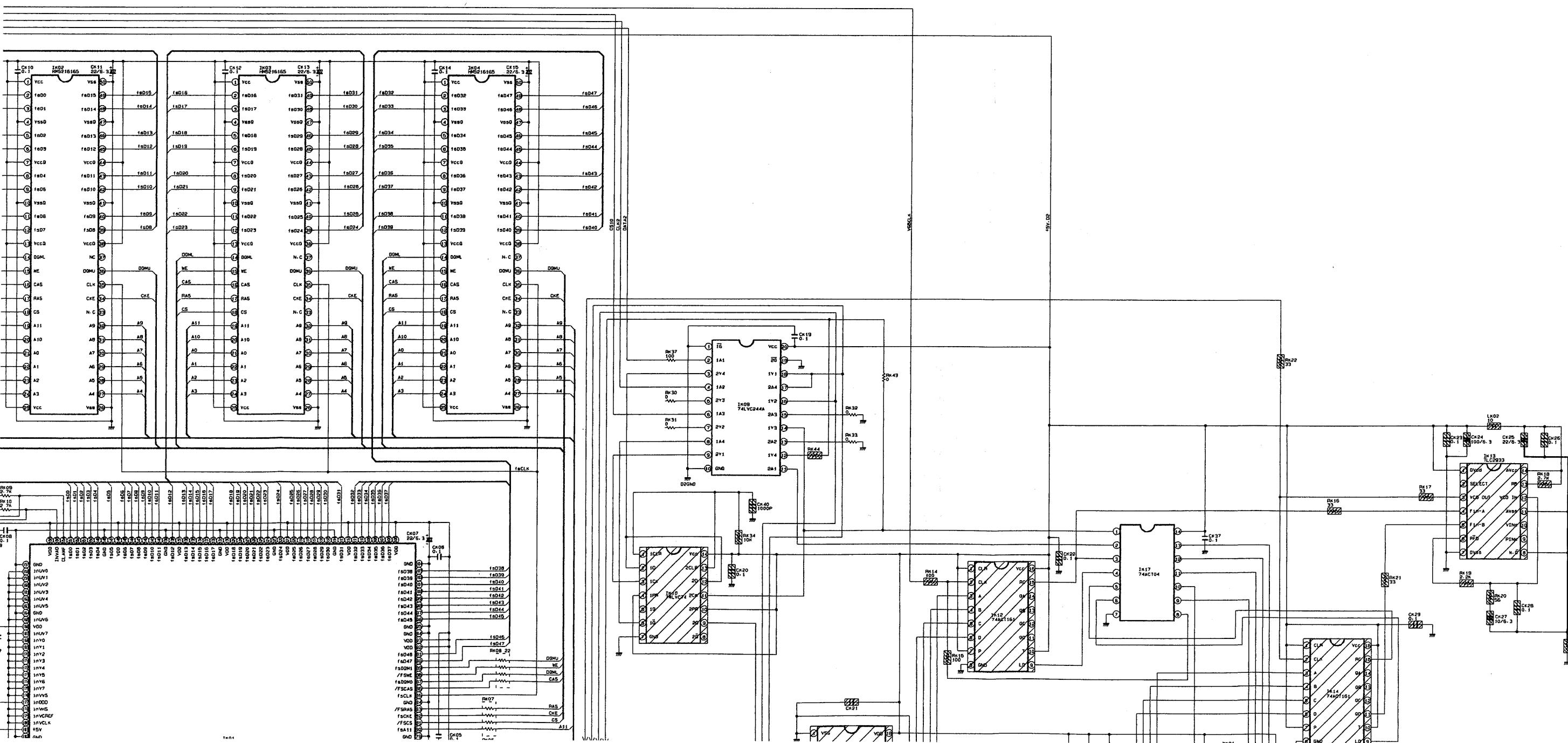


9. Basic circuit diagram



A
B
C
D





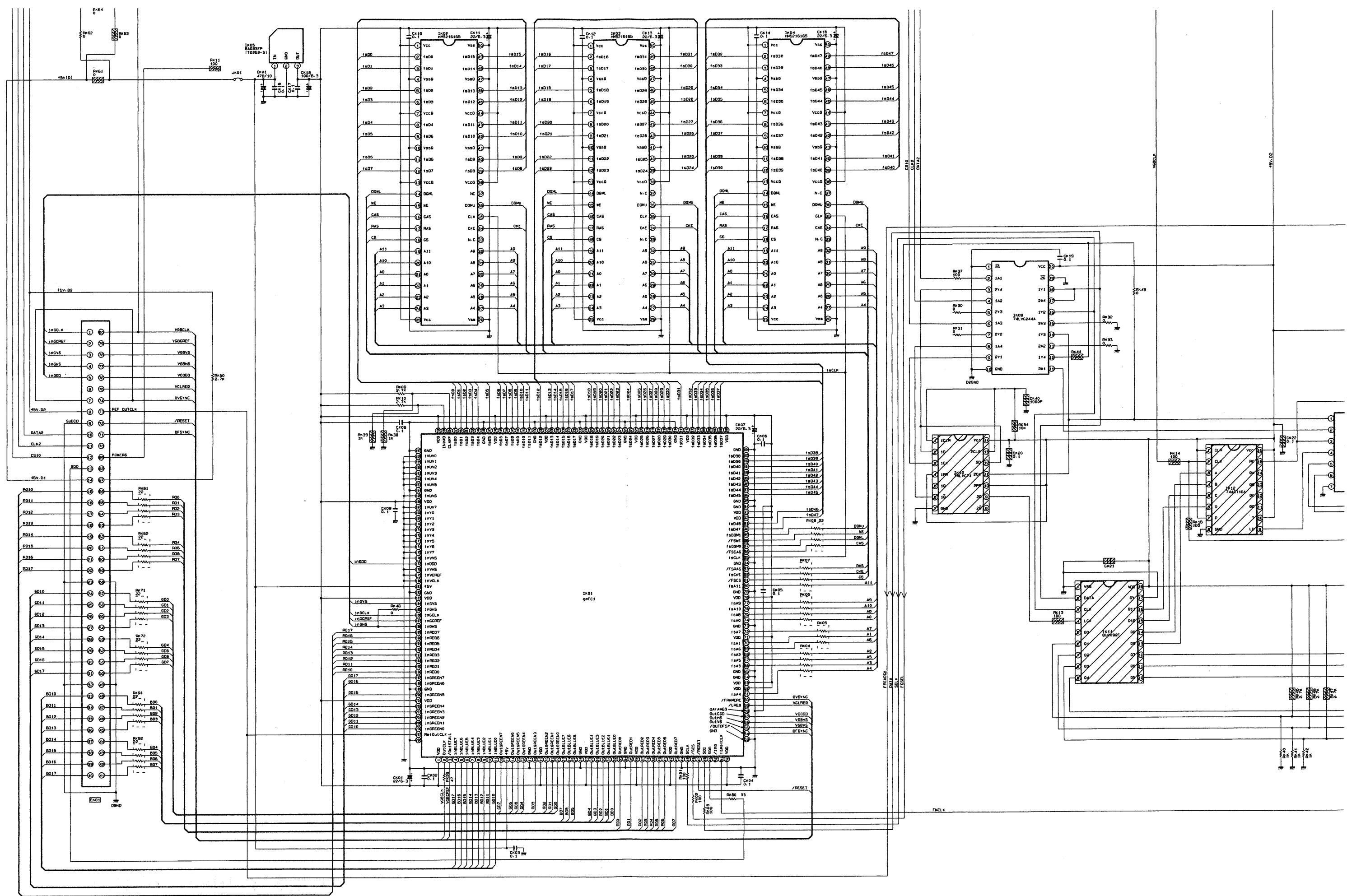
A

B

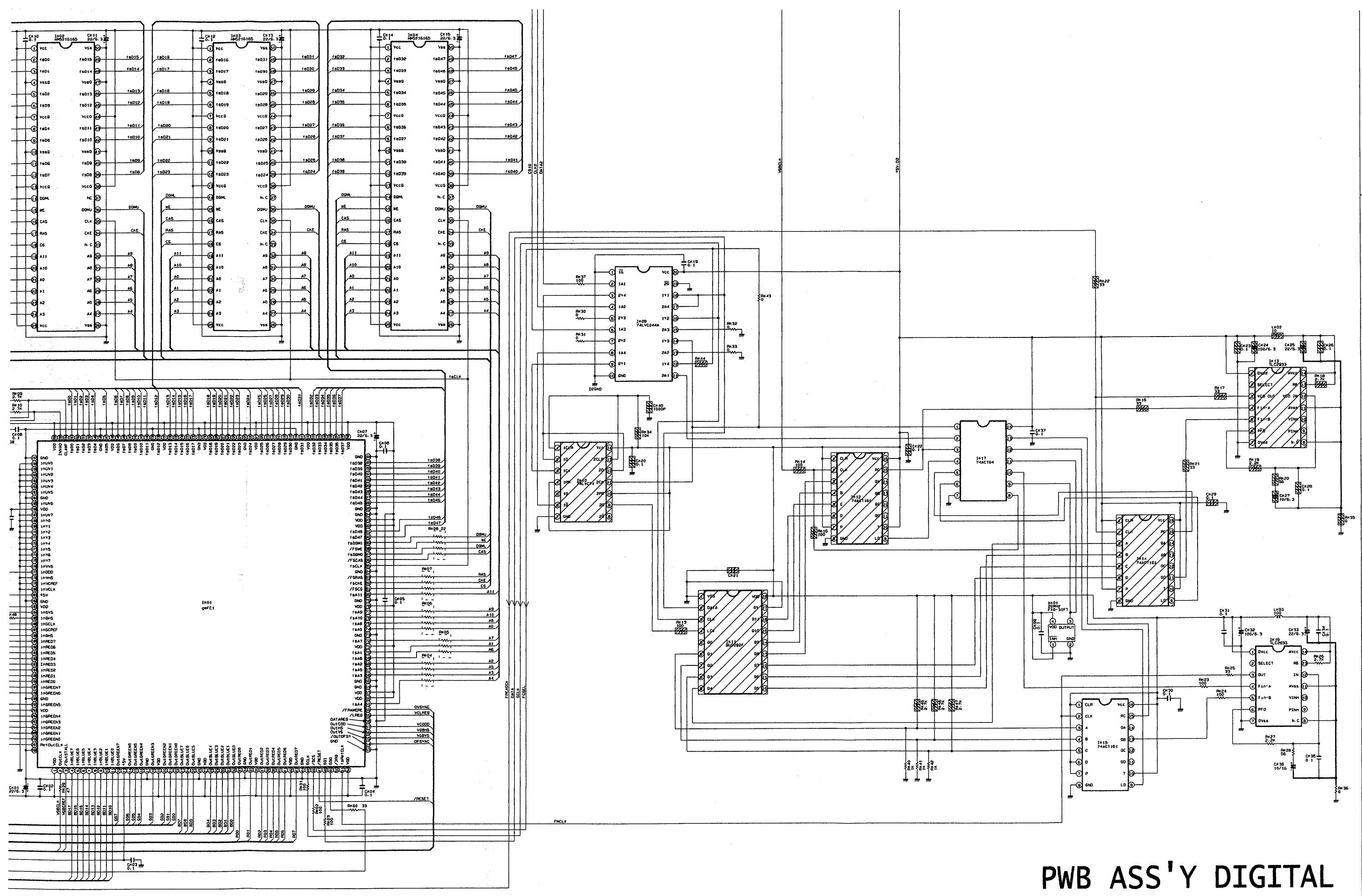
C

D

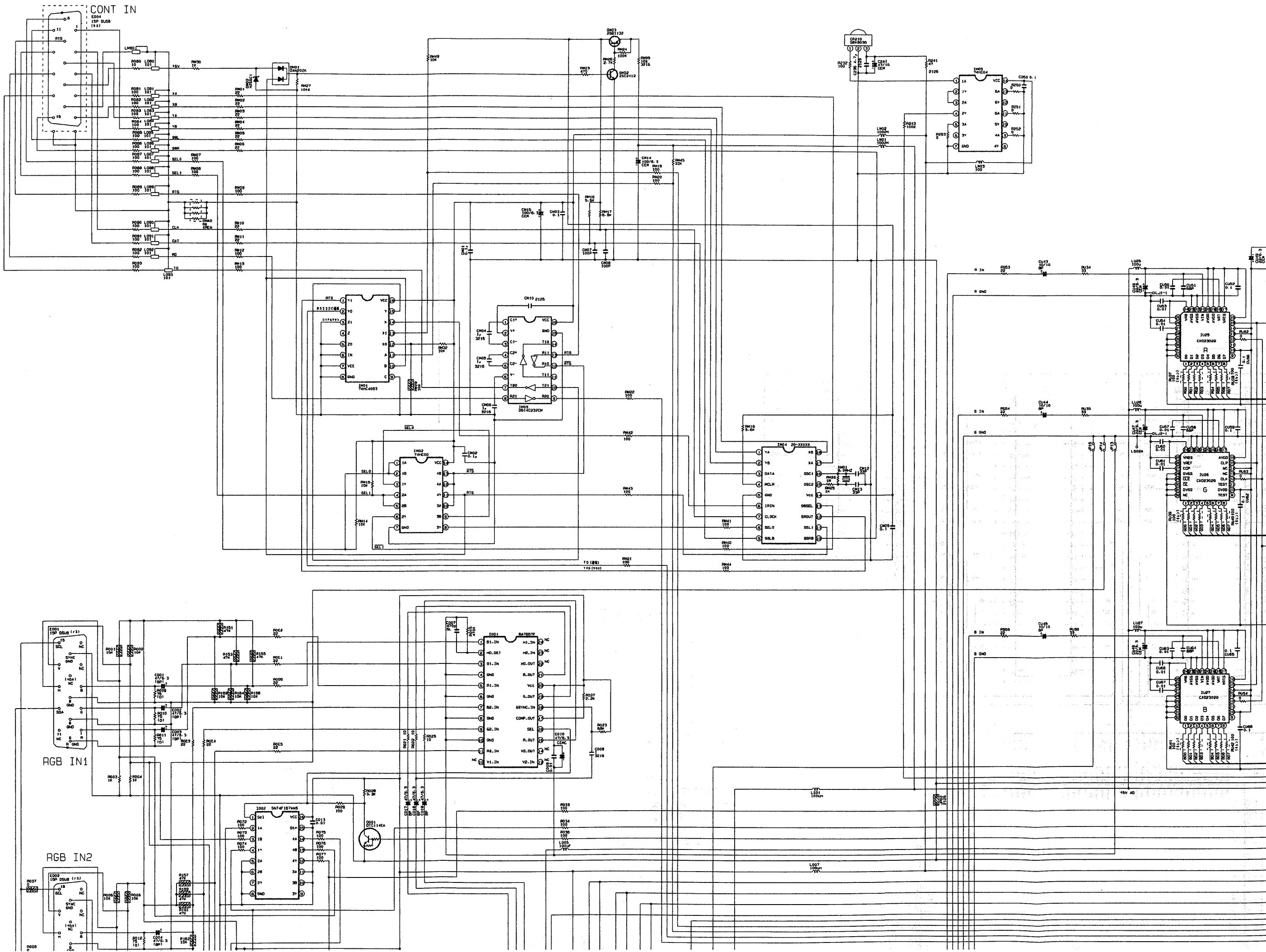
B



CAD/Room5/sws.ADB-PCB/adb-001



PWB ASS'Y DIGITAL

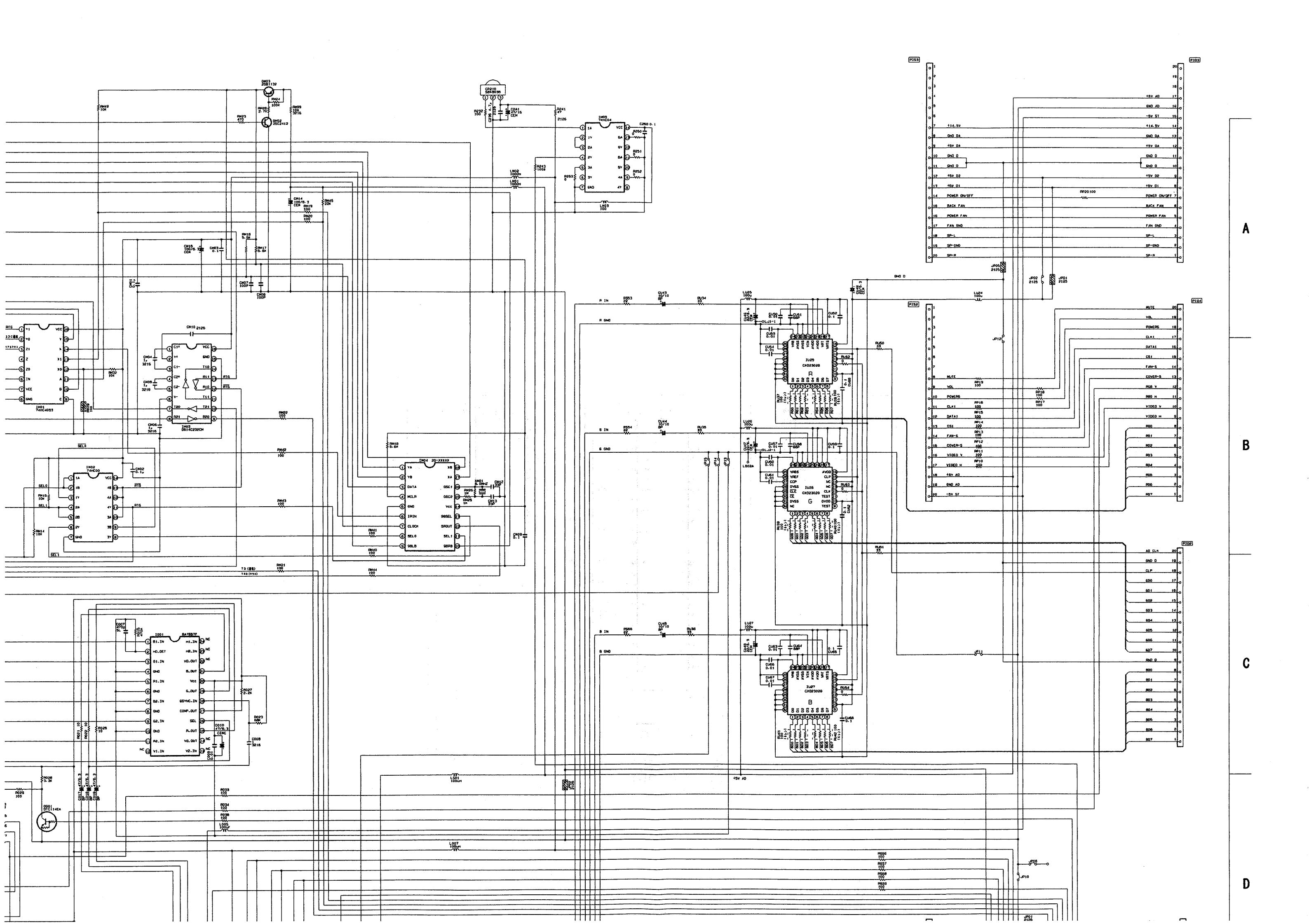


A

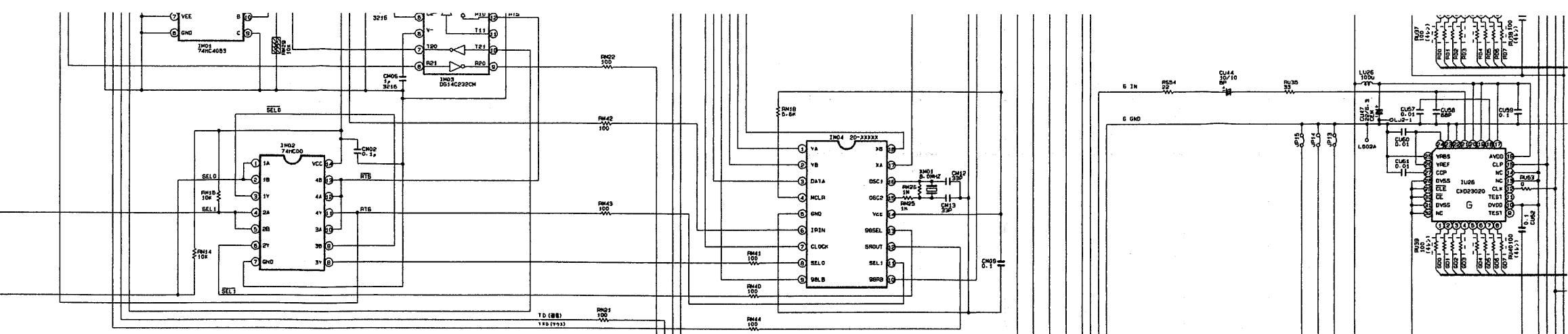
B

C

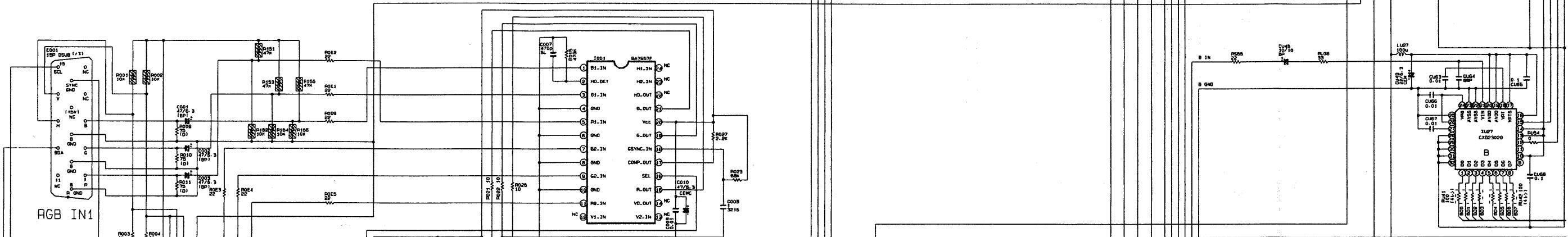
D



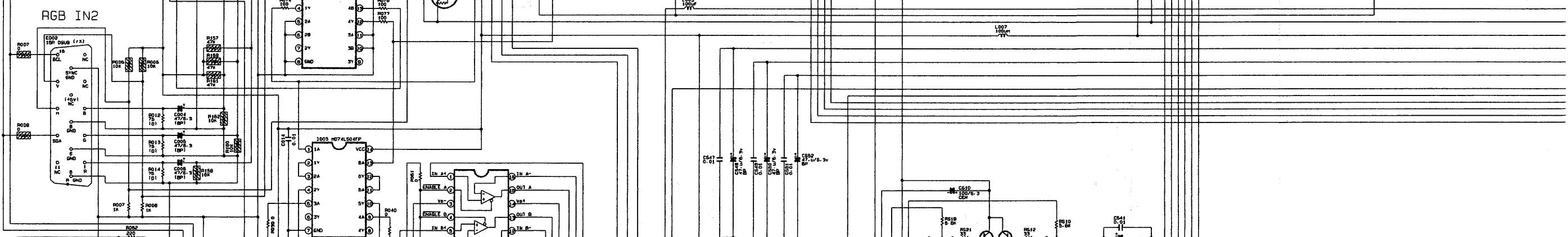
B



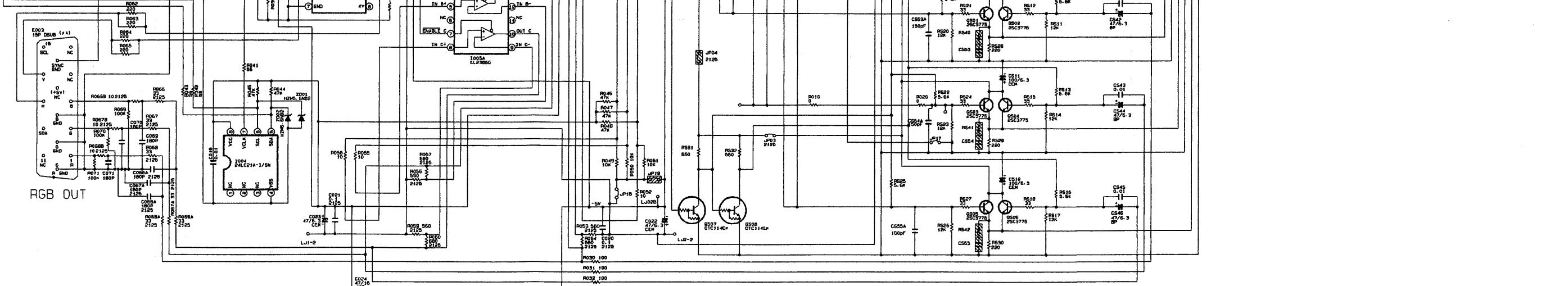
C



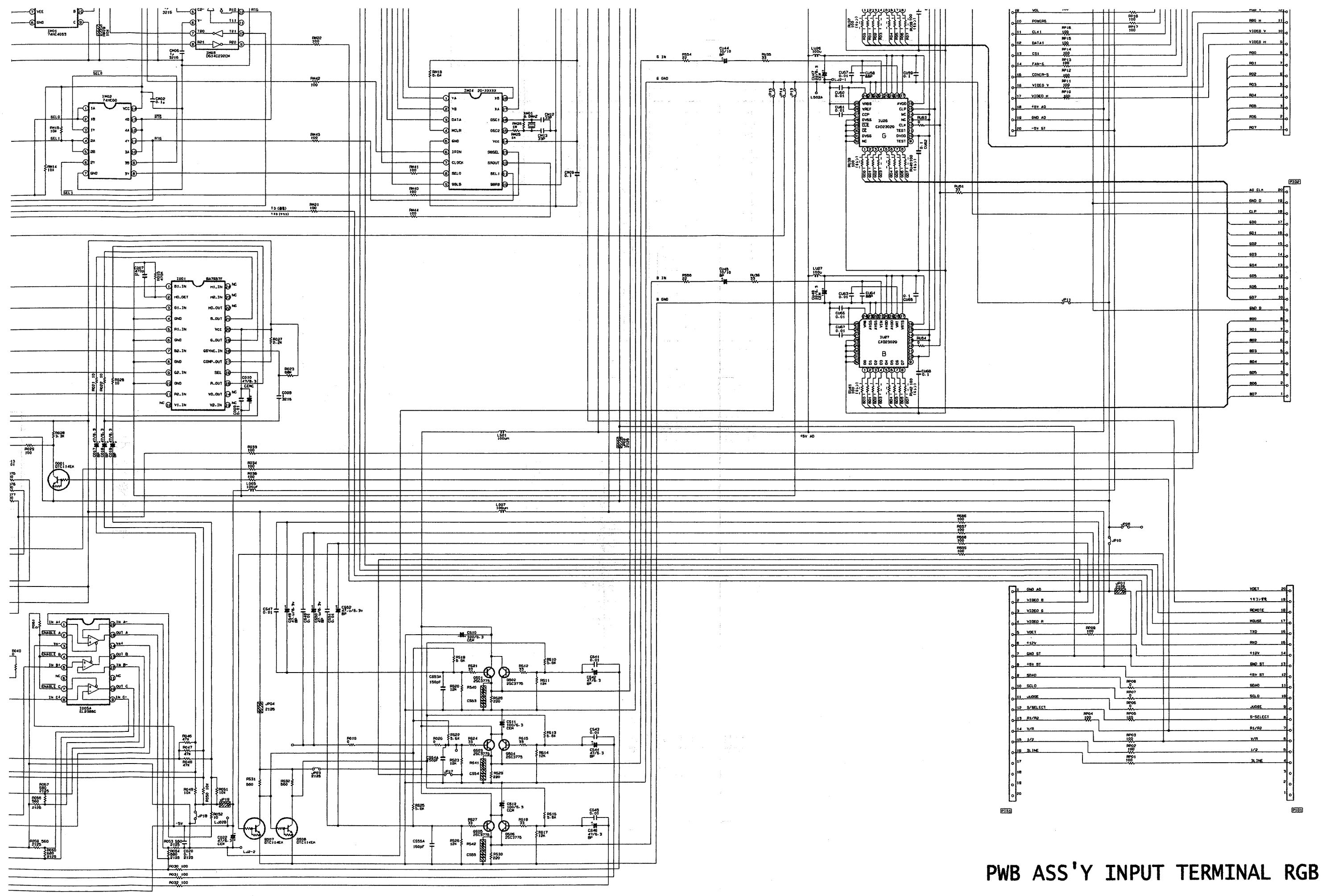
D



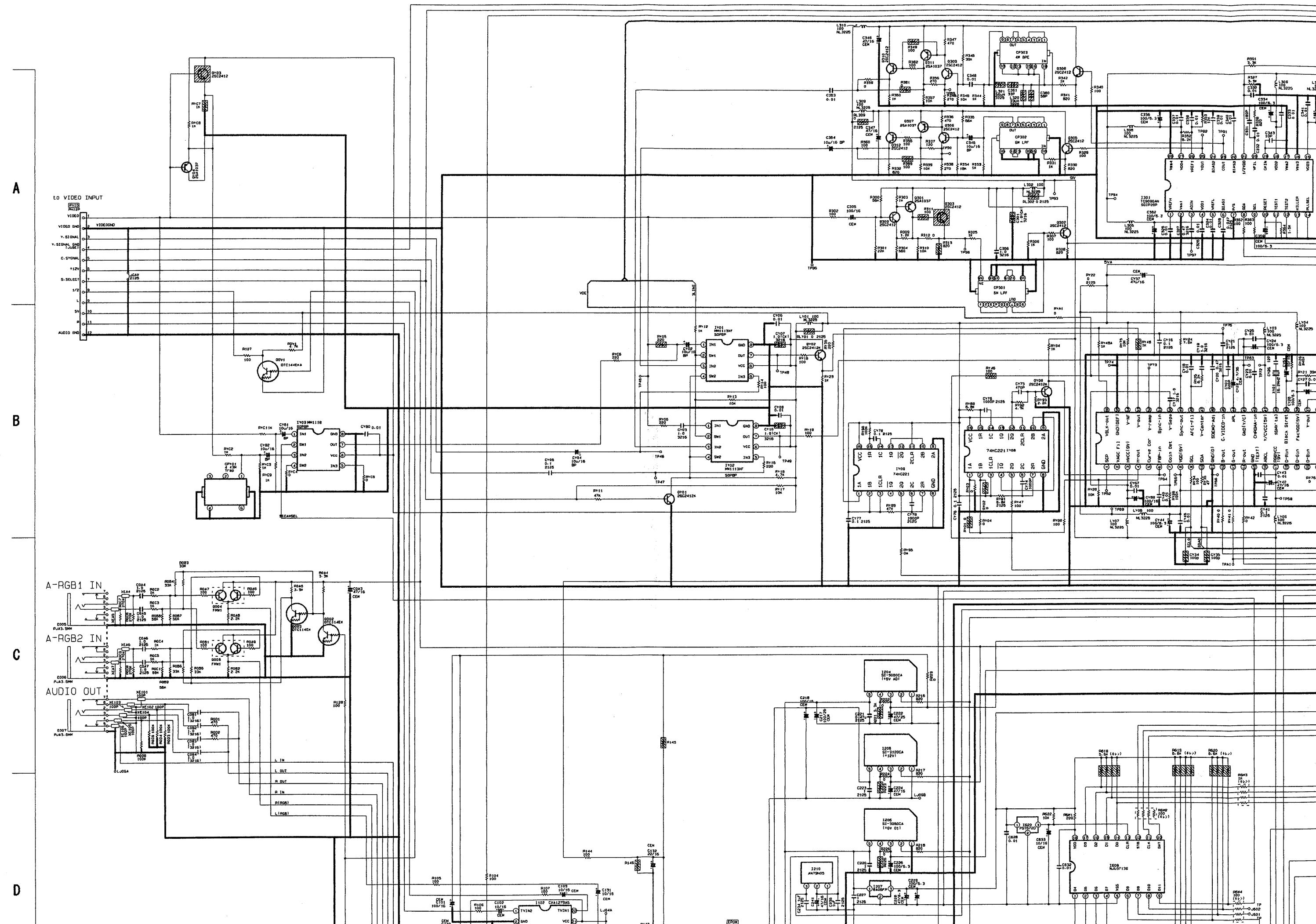
E

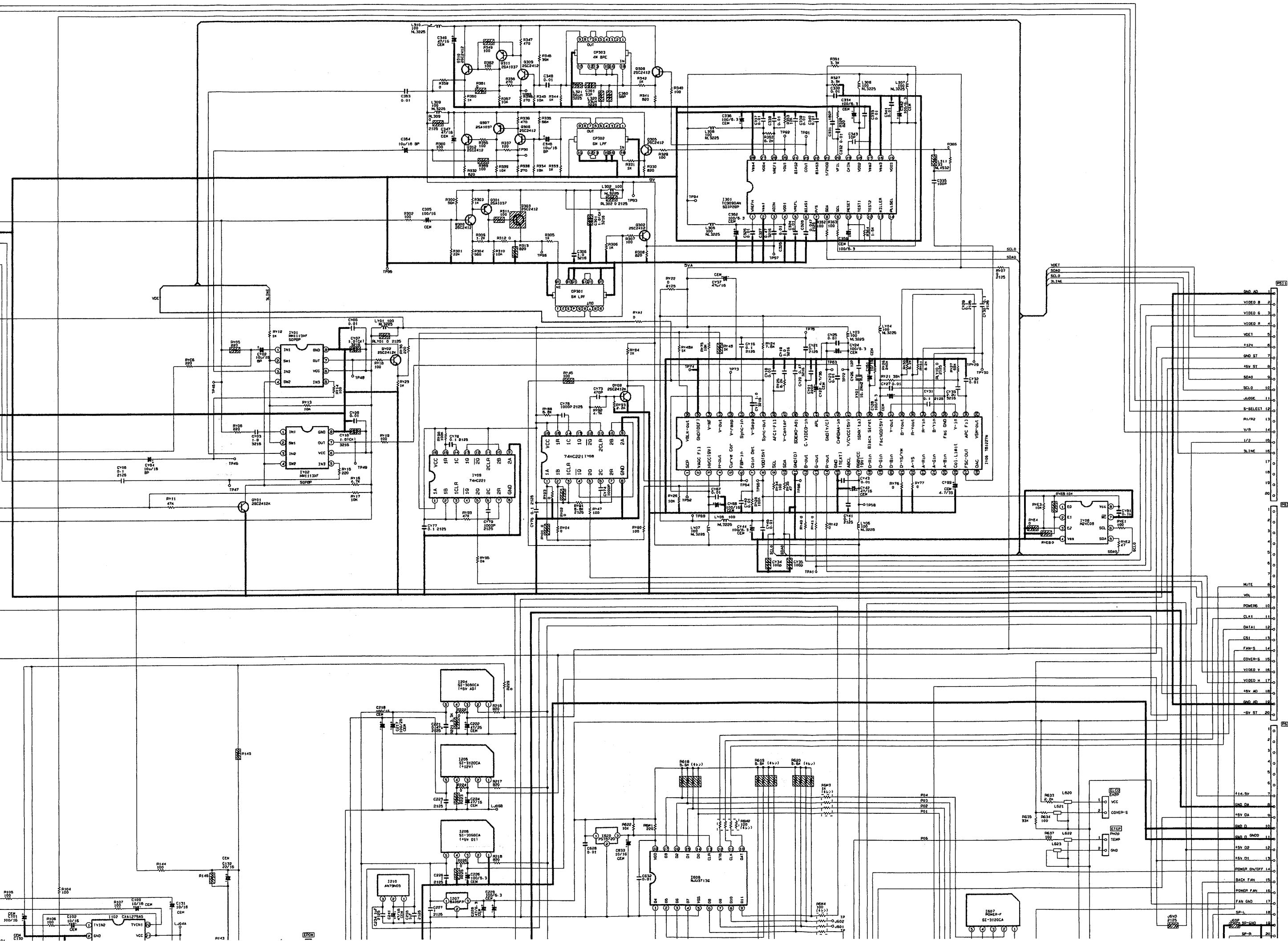


CAD/Room5/sws_C1-SIGNAL/RGBBC.001

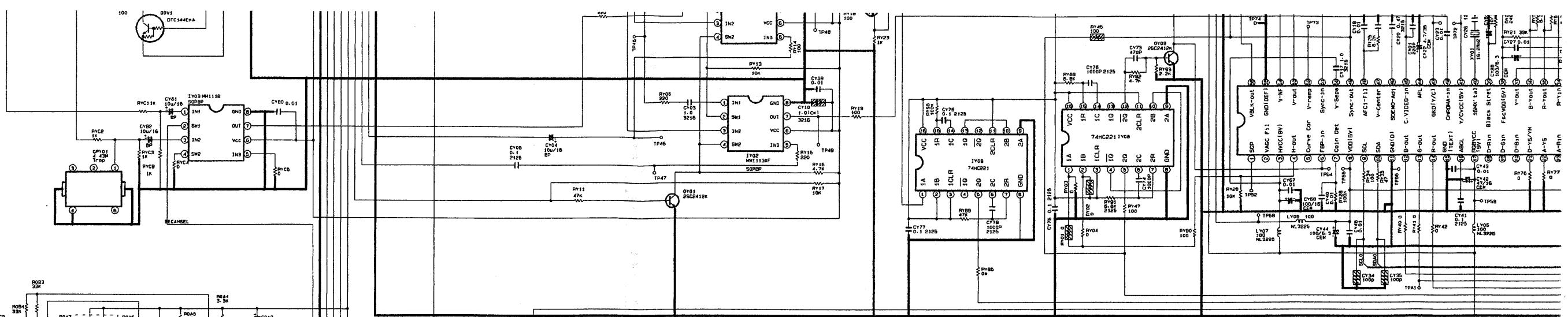


PWB ASS'Y INPUT TERMINAL RGB

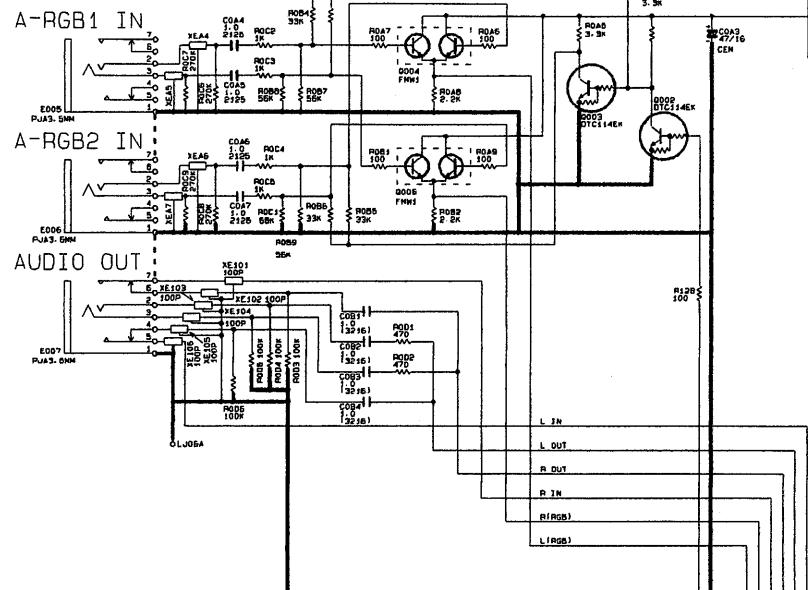




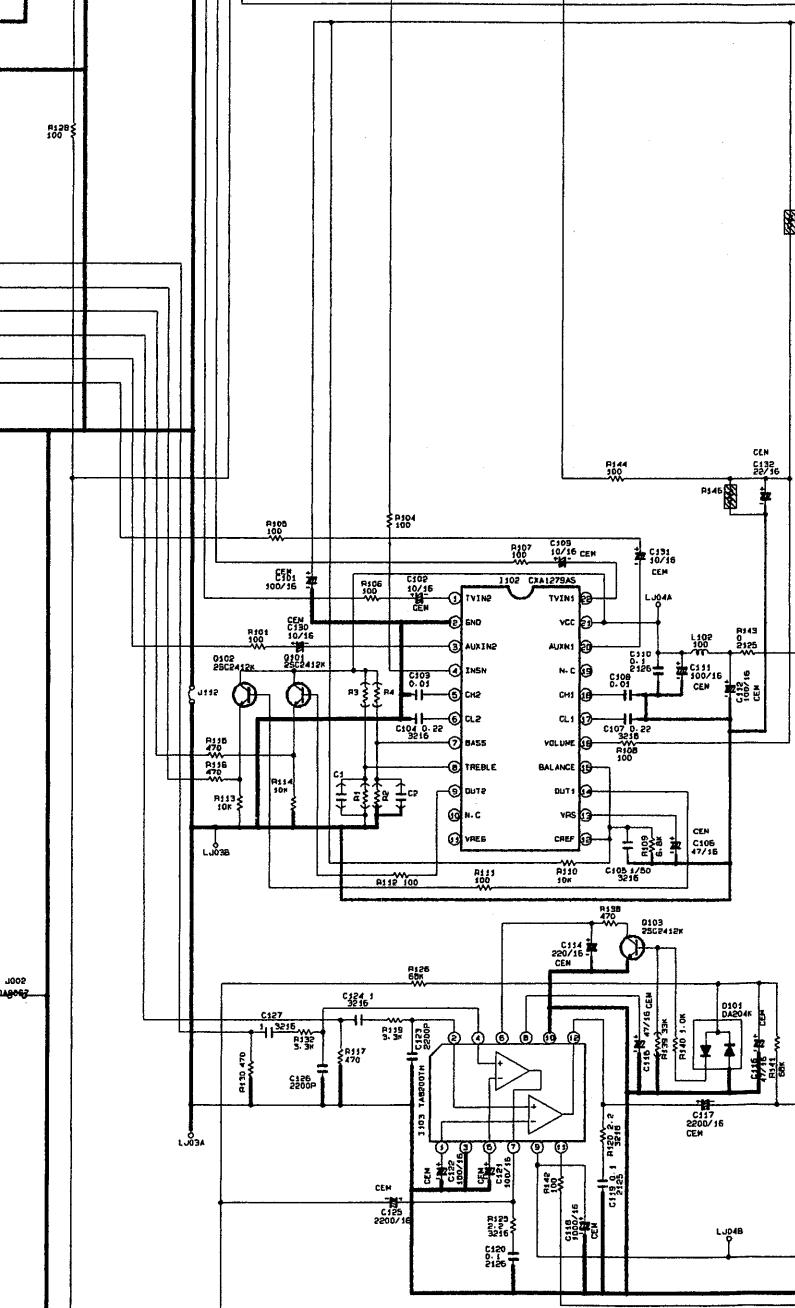
B



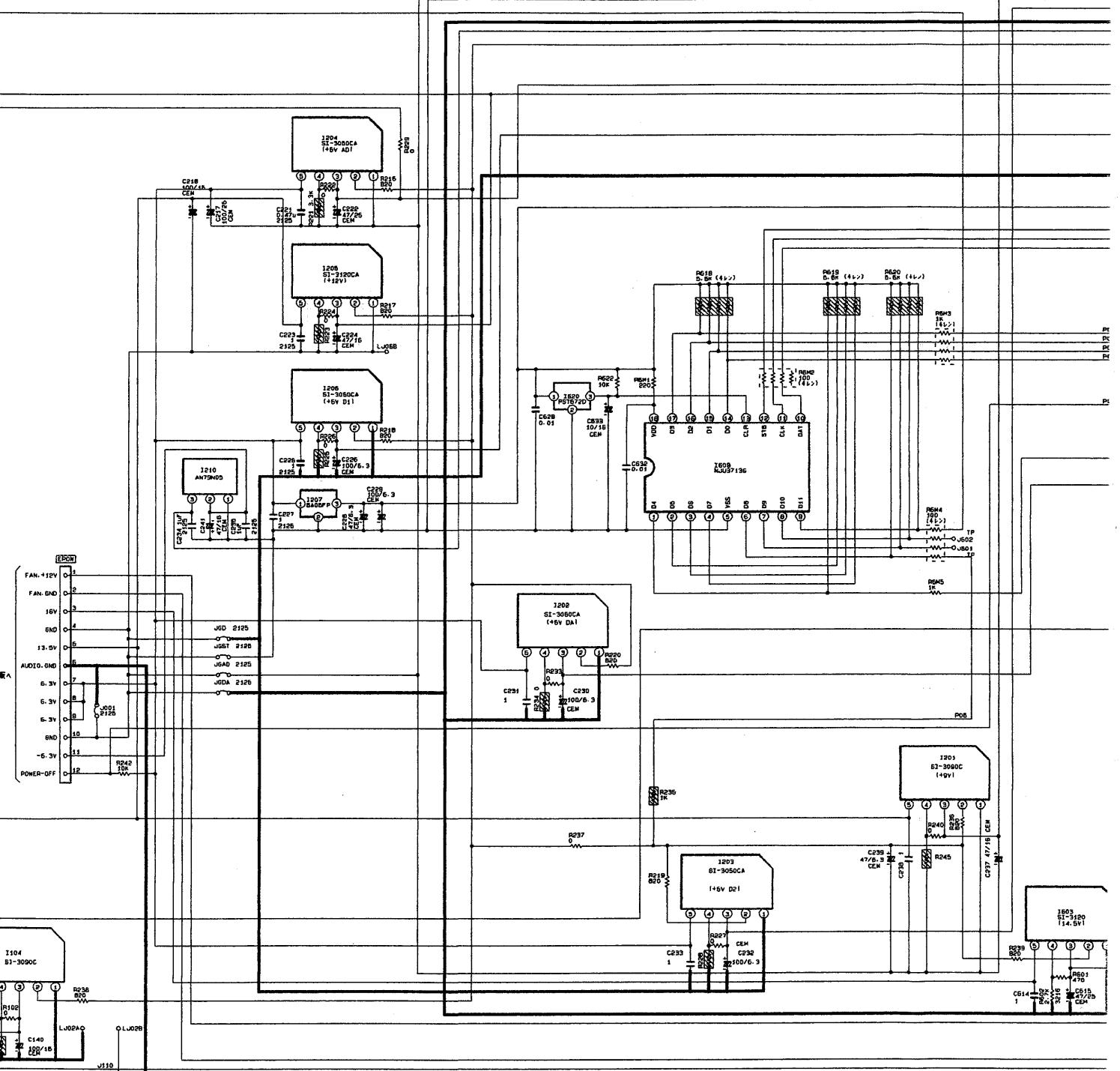
C

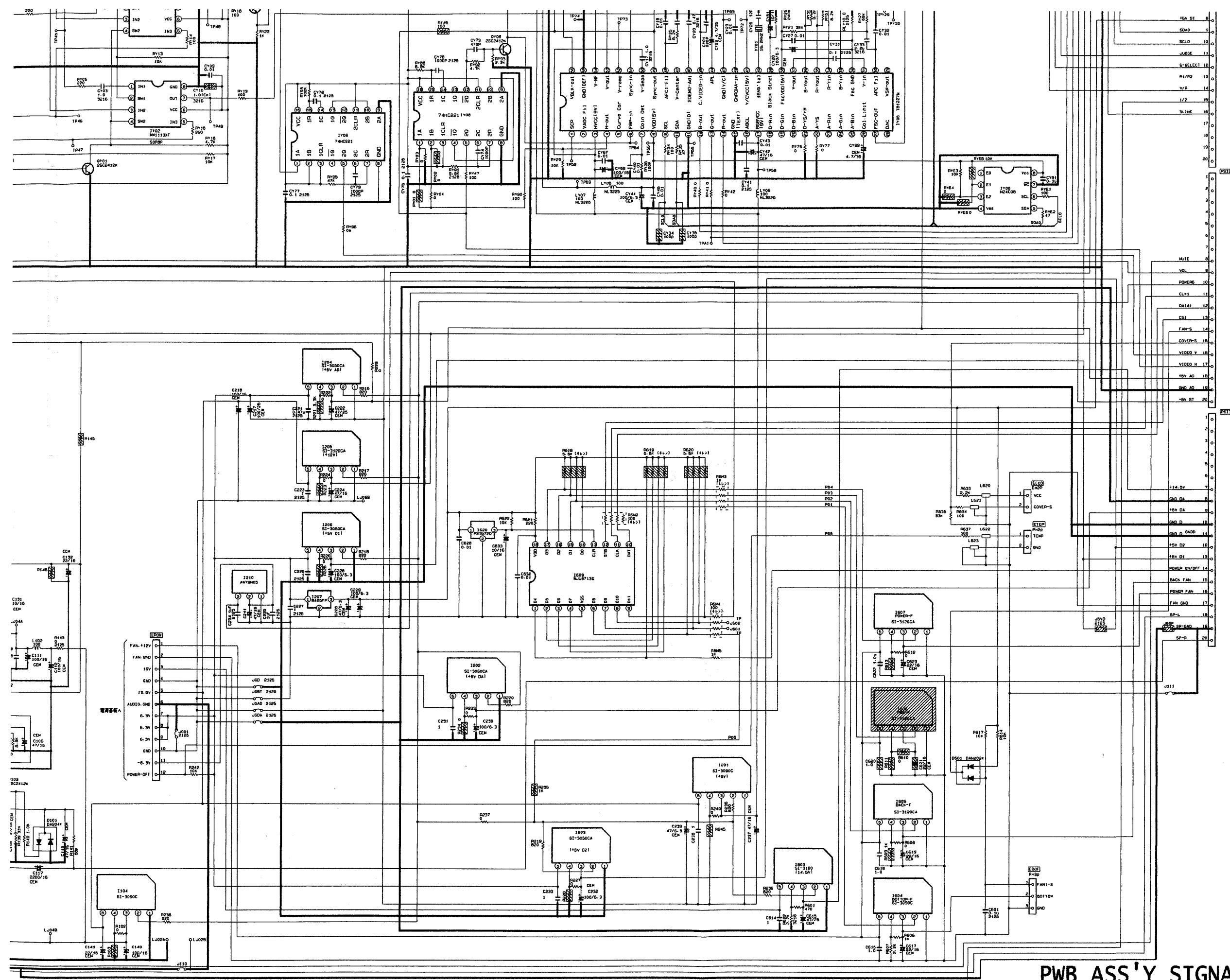


D



E





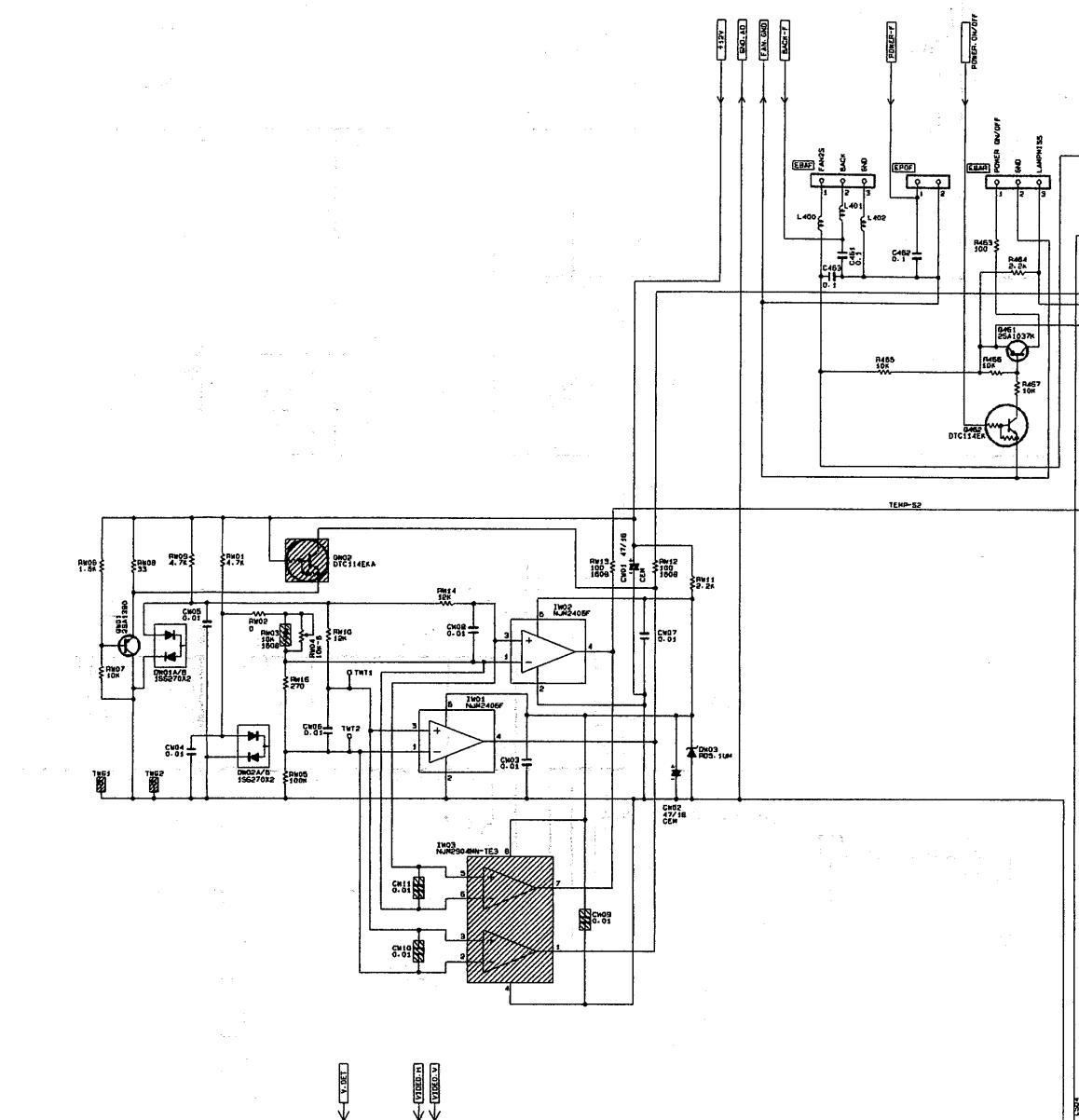
3

4

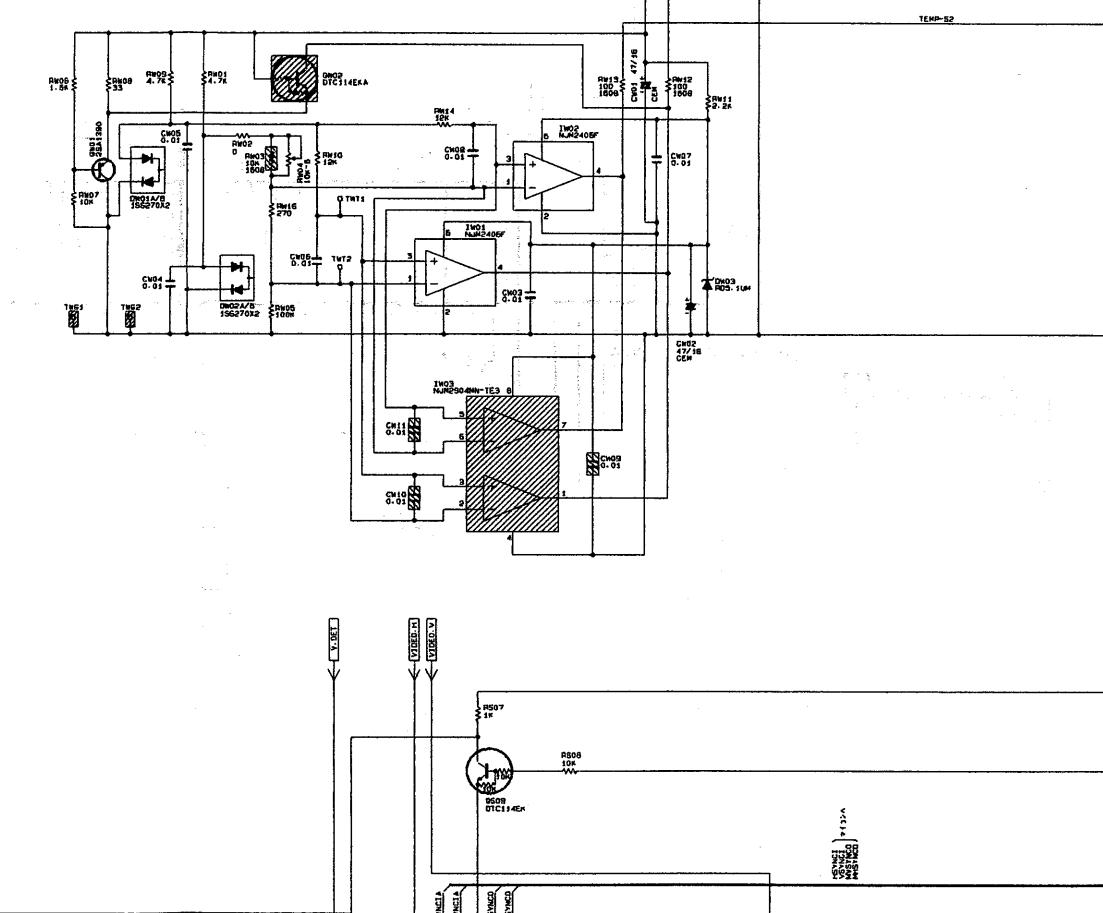
5

6

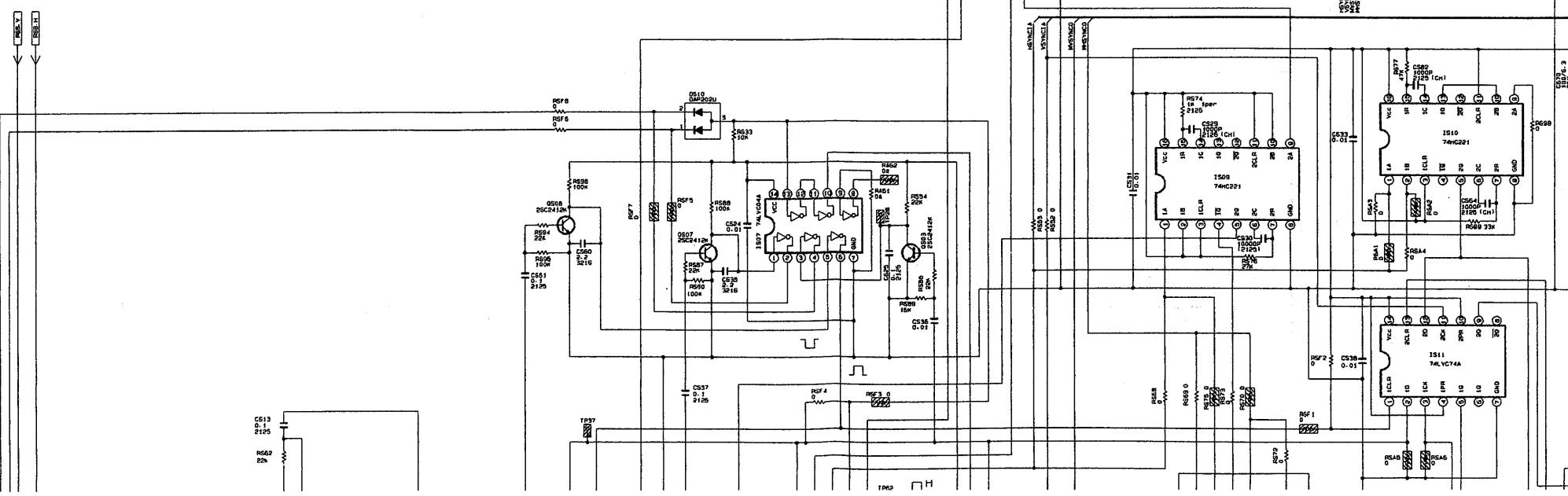
A



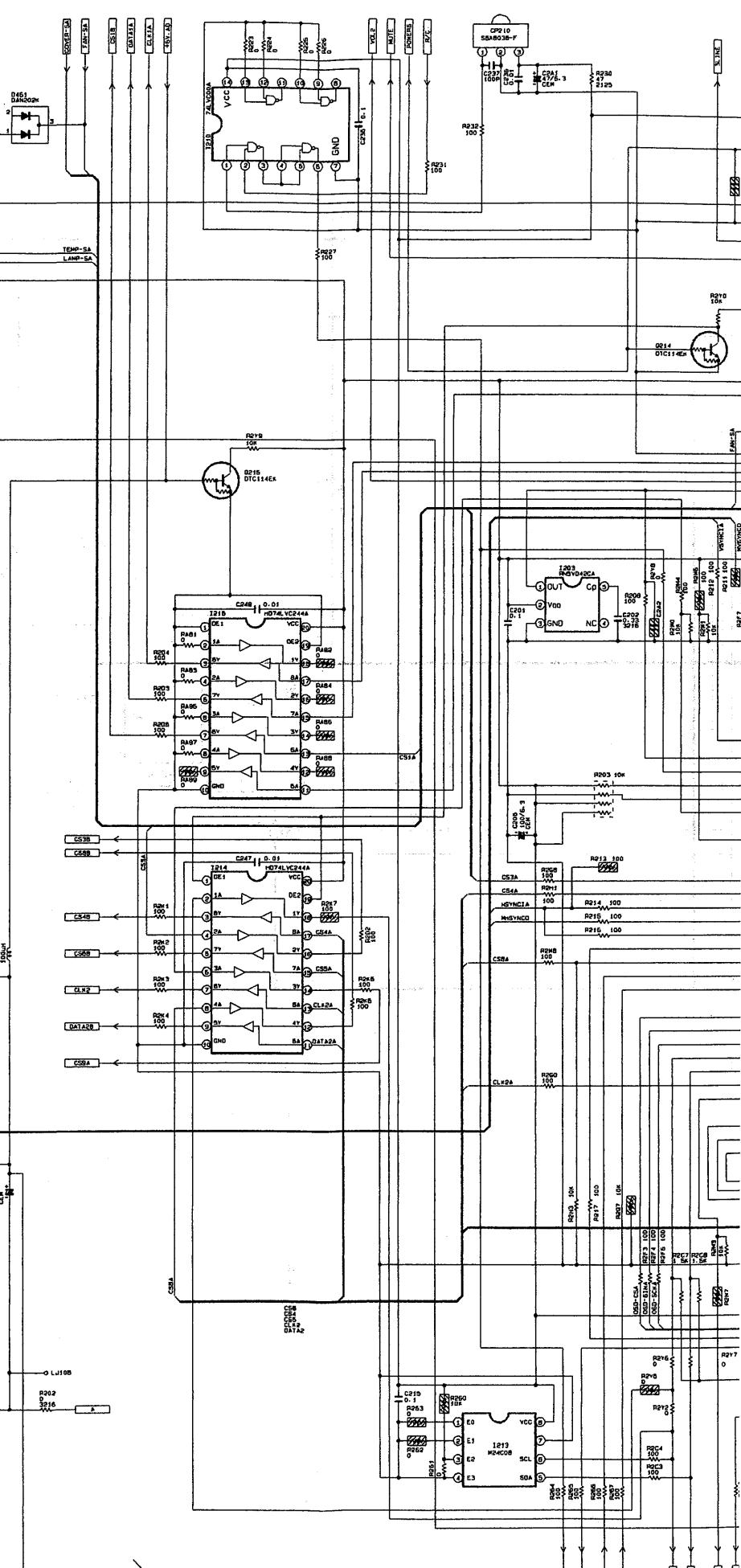
B

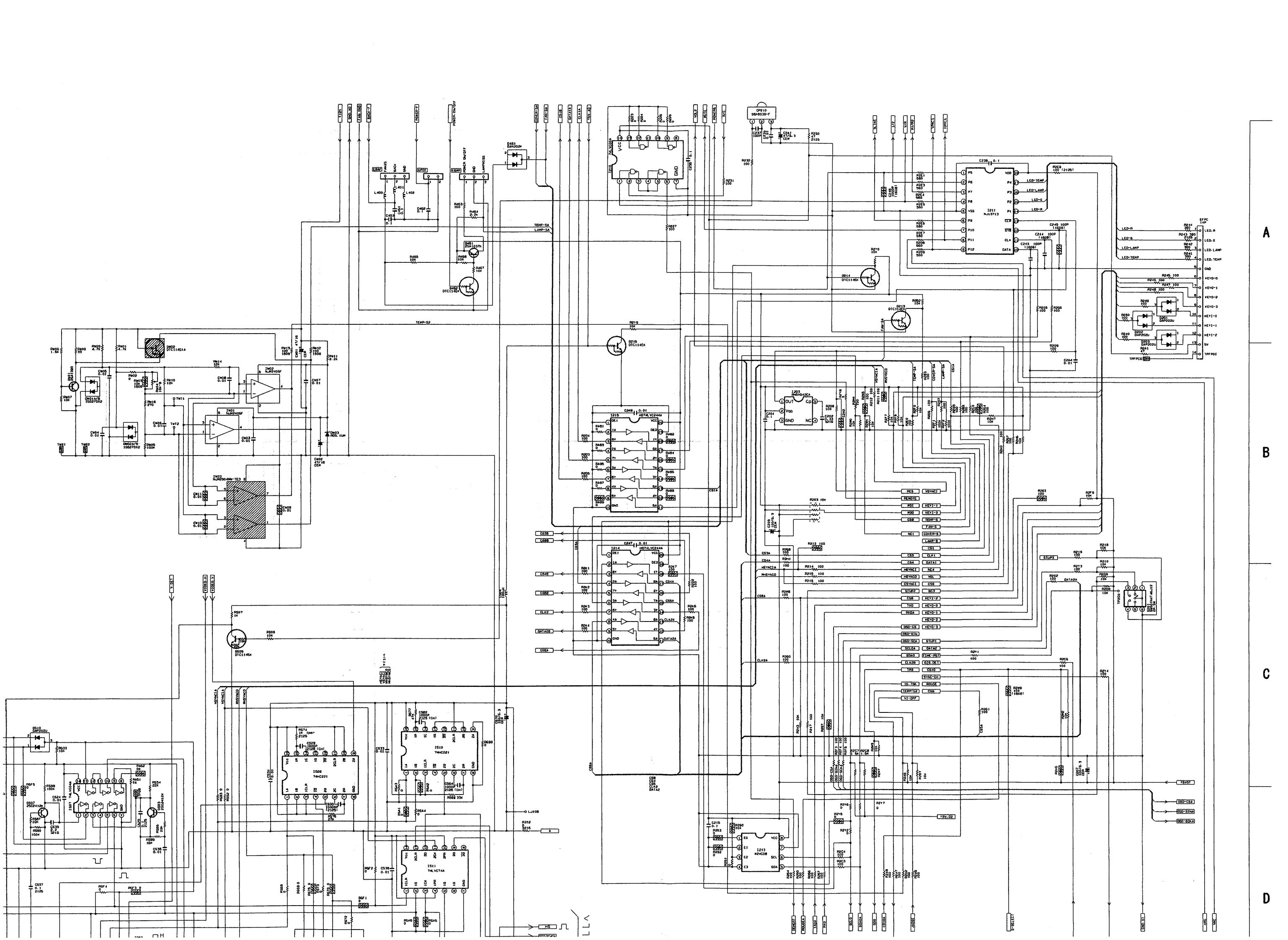


C

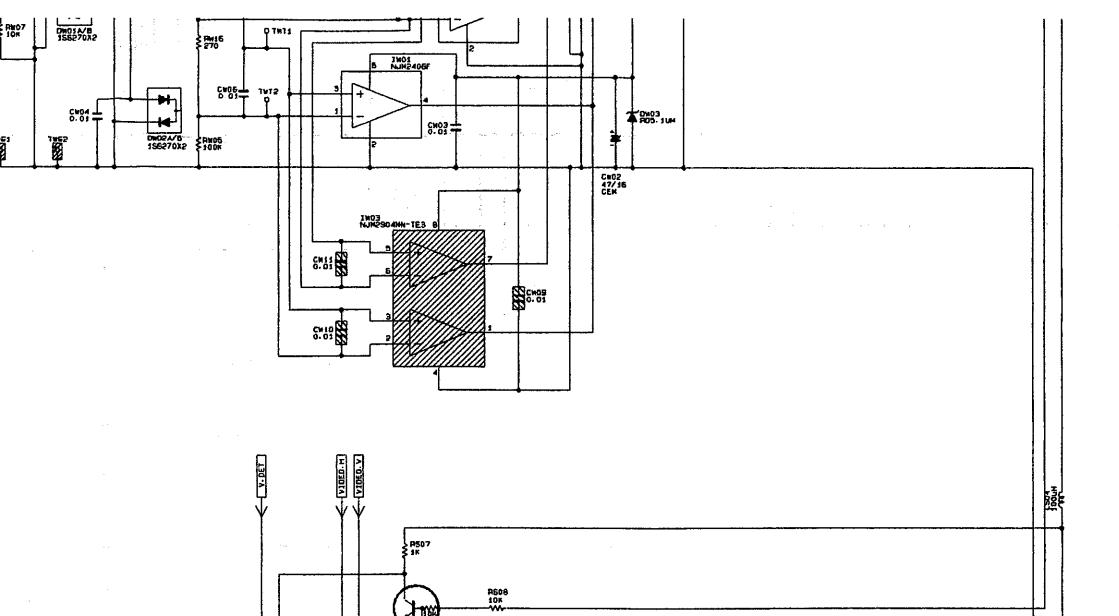


D

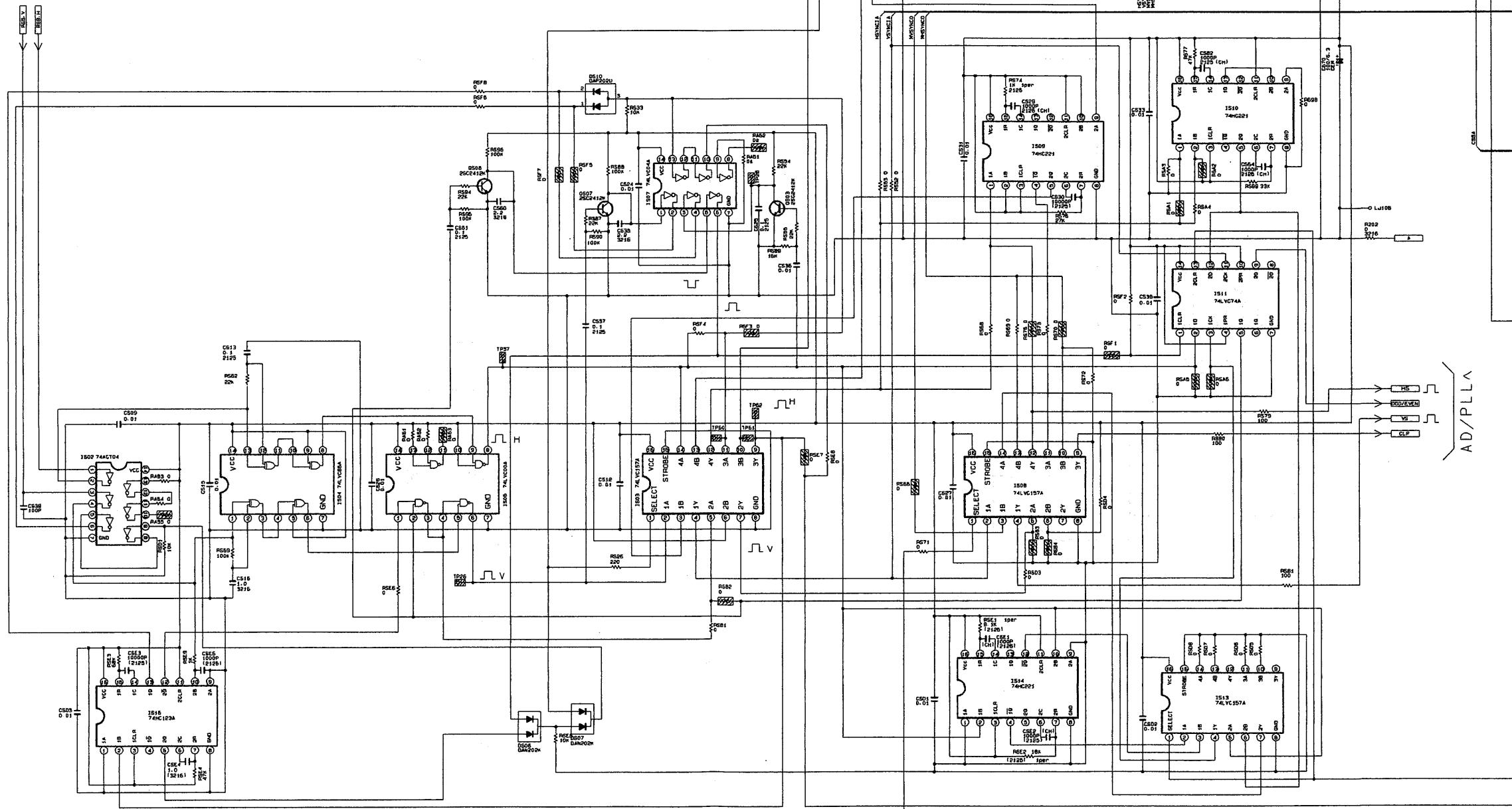




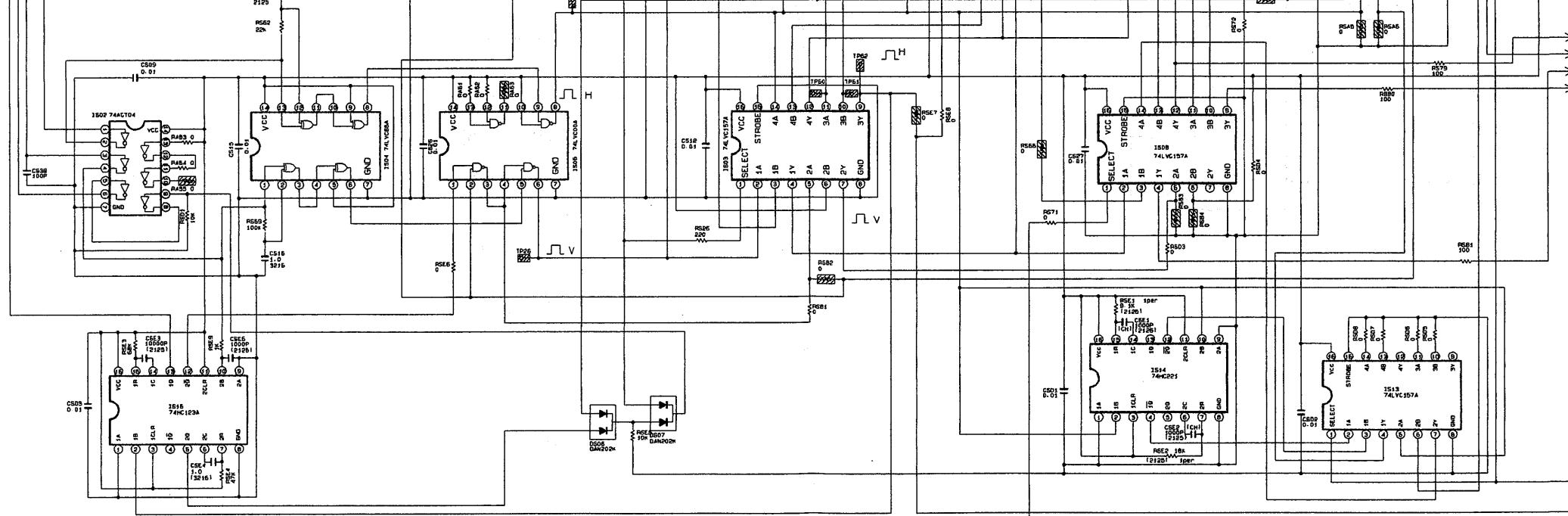
B



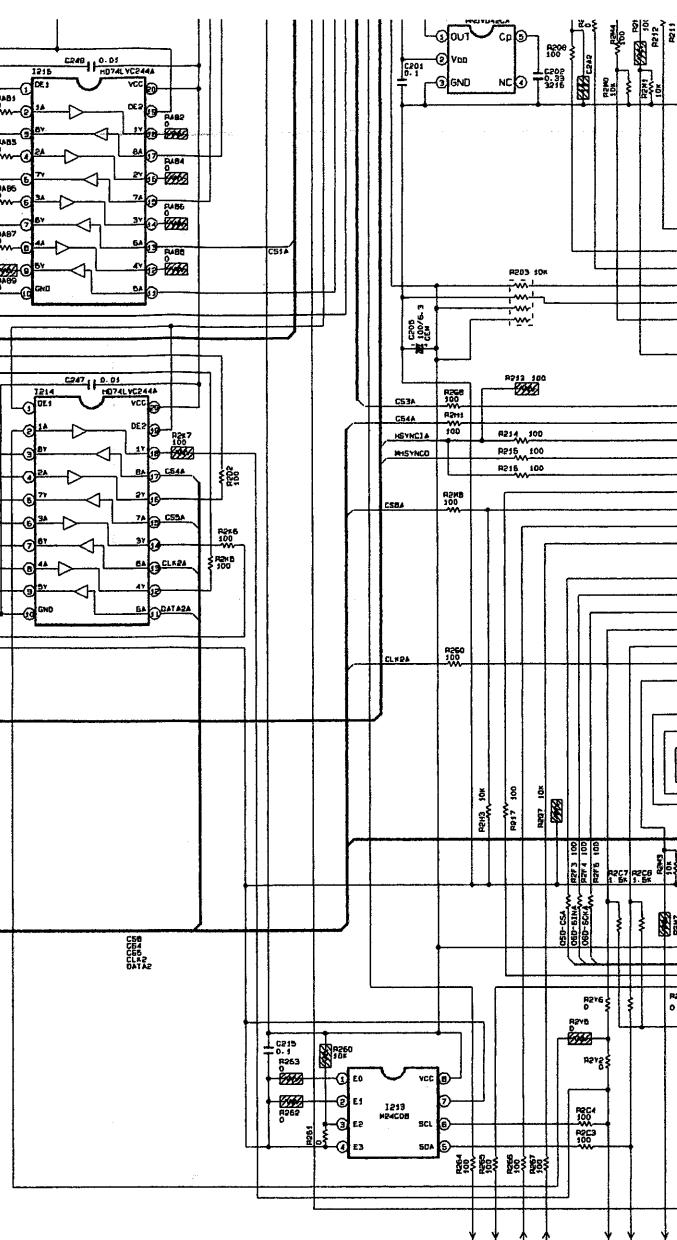
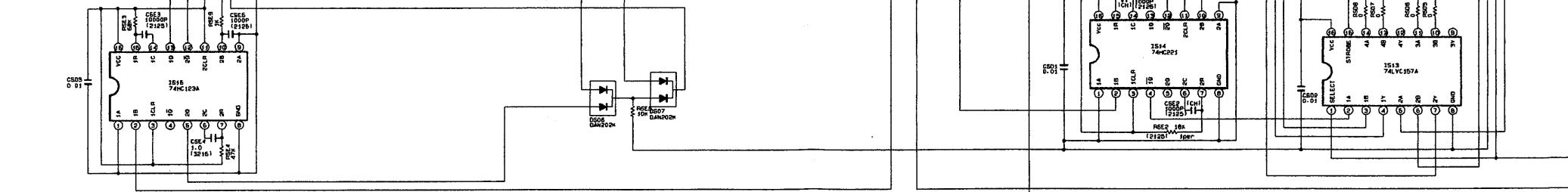
C

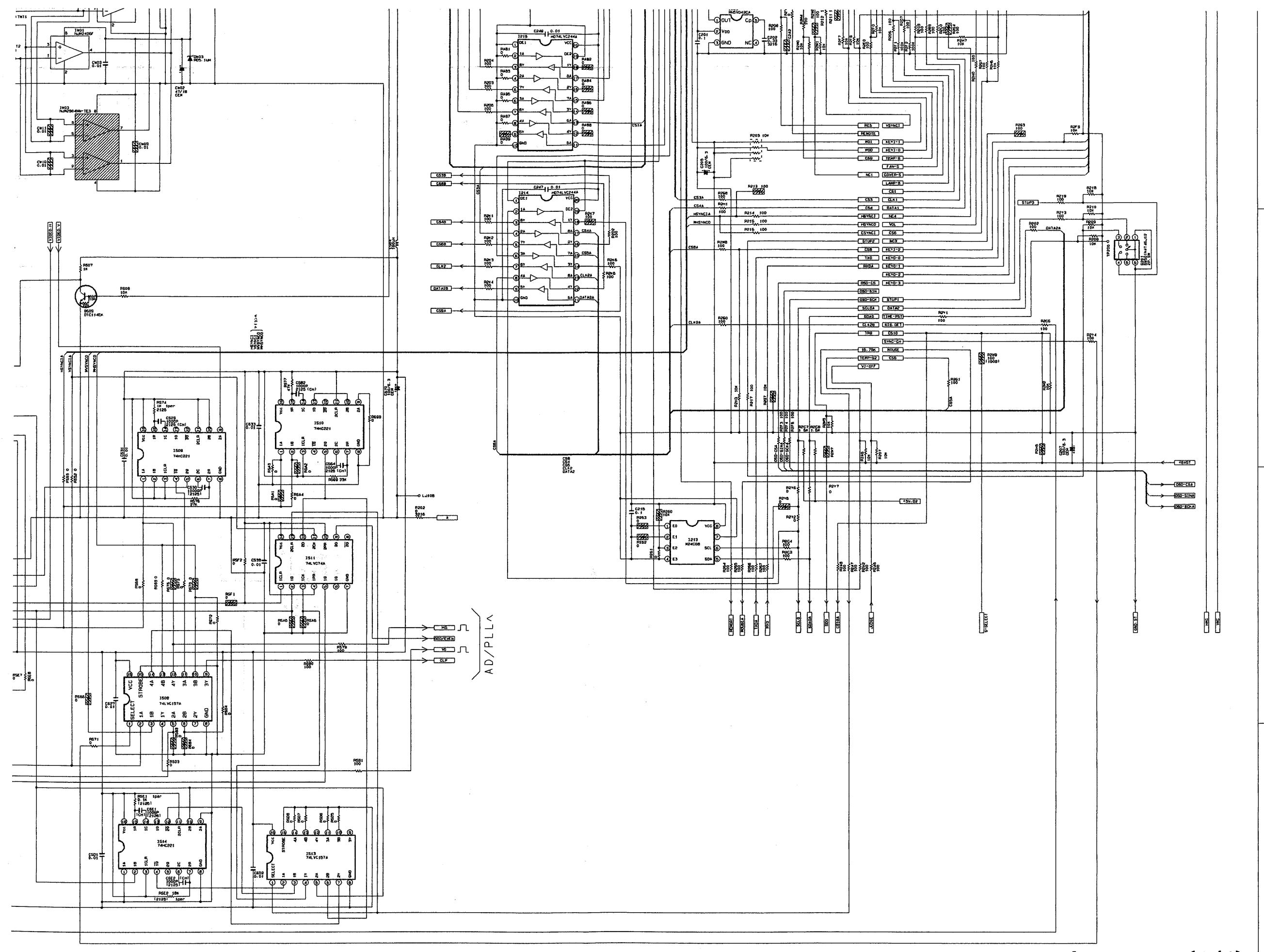


D

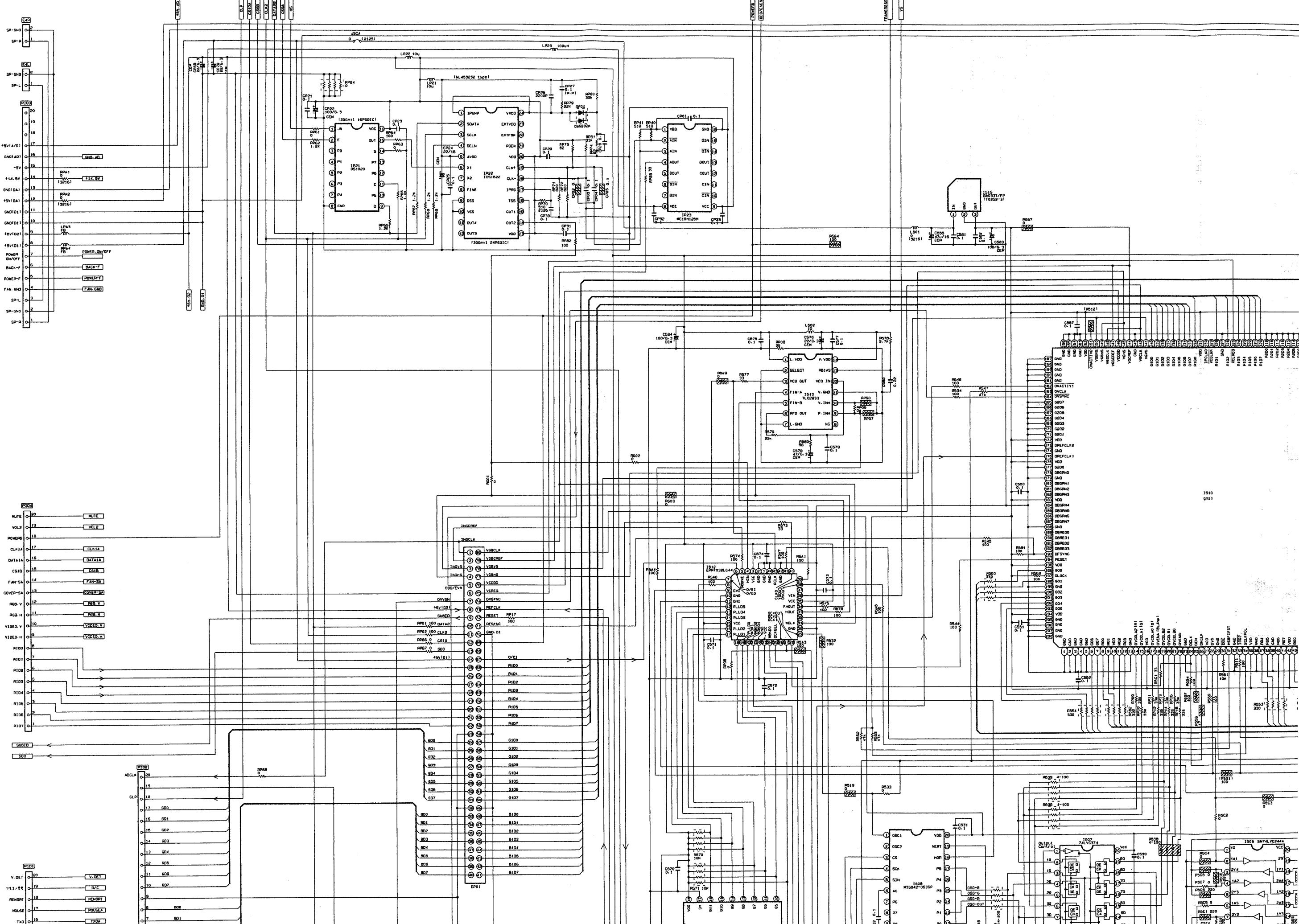


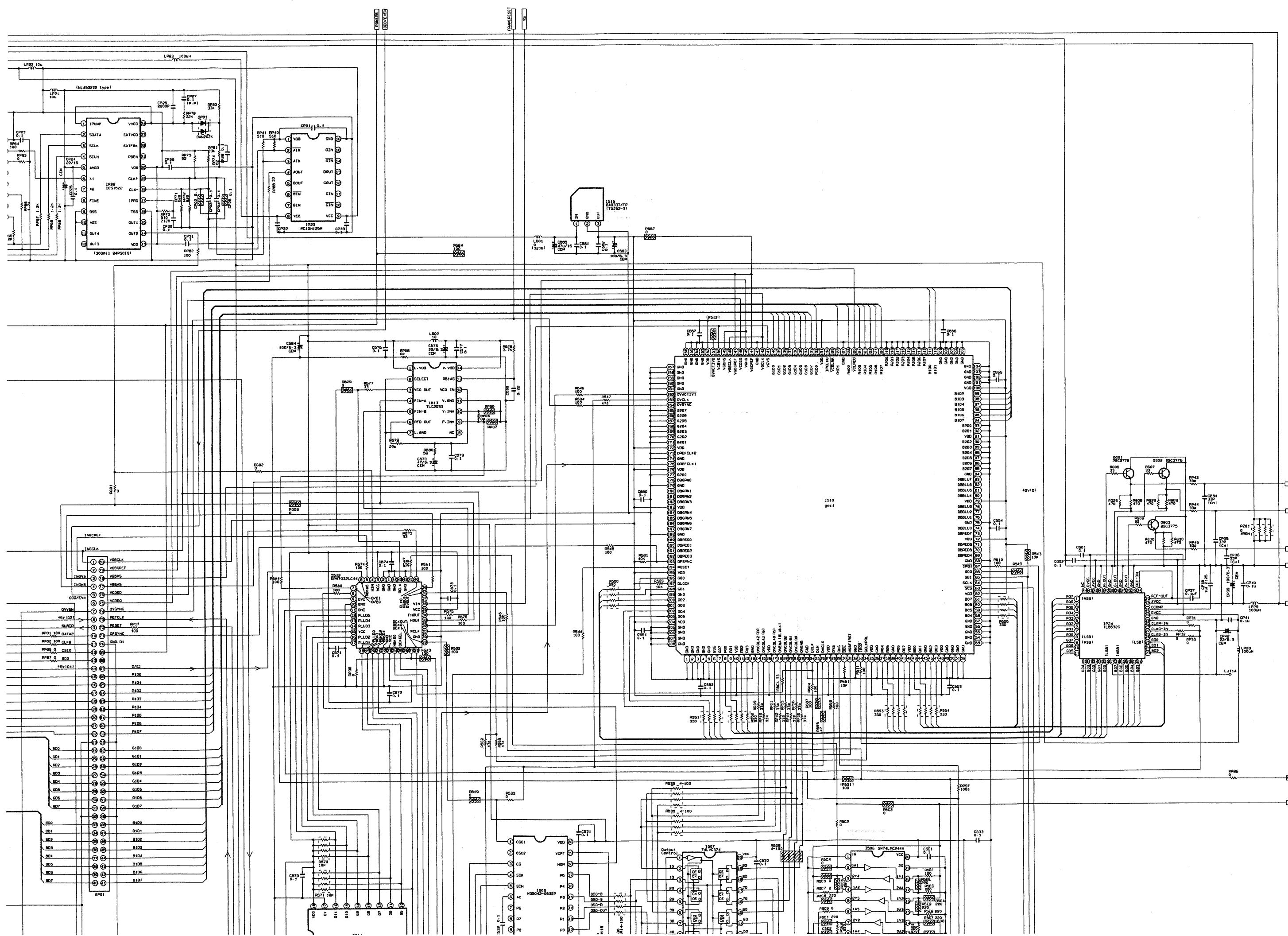
E





PWB ASS'Y DRIVE (1/4)





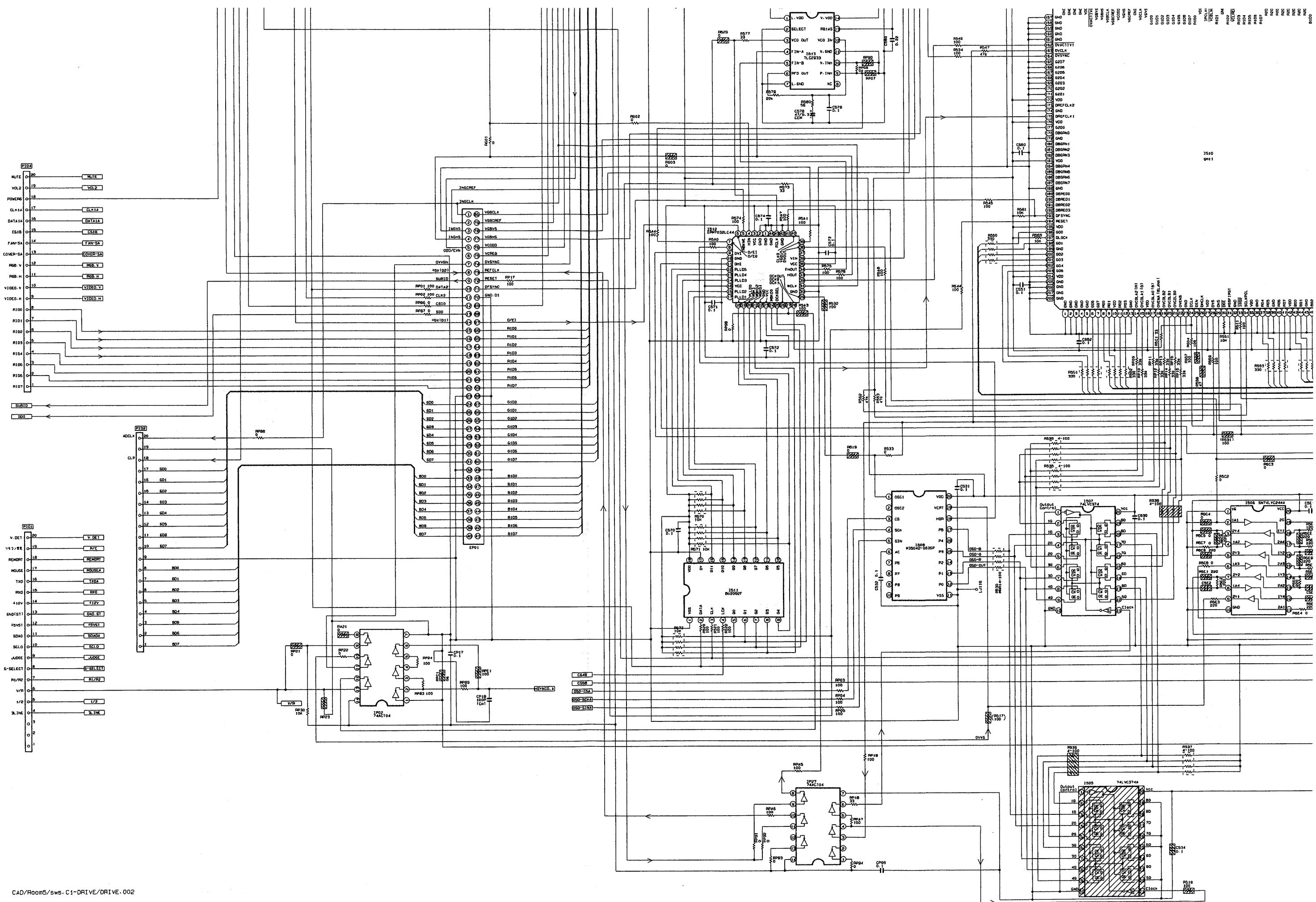
A

B

C

D

B



C

P104

MUTE

VOL2

POWER

CLK1A

DATA1A

CS1B

FAN-SA

COVER-SA

RGB_Y

RGB_H

VIDEO_V

VIDEO_H

PID0

PID1

PID2

PID3

PID4

PID5

PID6

PID7

SUB1D

SD0

P105

ACLK

CLP

G00

G01

G02

G03

G04

G05

G06

G07

G100

G101

G102

G103

G104

G105

G106

G107

G108

G109

G110

G111

G112

G113

G114

G115

G116

G117

G118

G119

G120

G121

G122

G123

G124

G125

G126

G127

G128

G129

G130

G131

G132

G133

G134

G135

G136

G137

G138

G139

G140

G141

G142

G143

G144

G145

G146

G147

G148

G149

G150

G151

G152

G153

G154

G155

G156

G157

D

P101
VDET
1V3ER
REMOTE
MOUSE
TxD
RxD
48EV
SND(S1)
48SI
EDA0
SCLO
JUDGE
SELECT
R1/R2
VR
1/2
3LINE

E

CAD/Room5/sws.C1-DRIVE/DRIVE_002

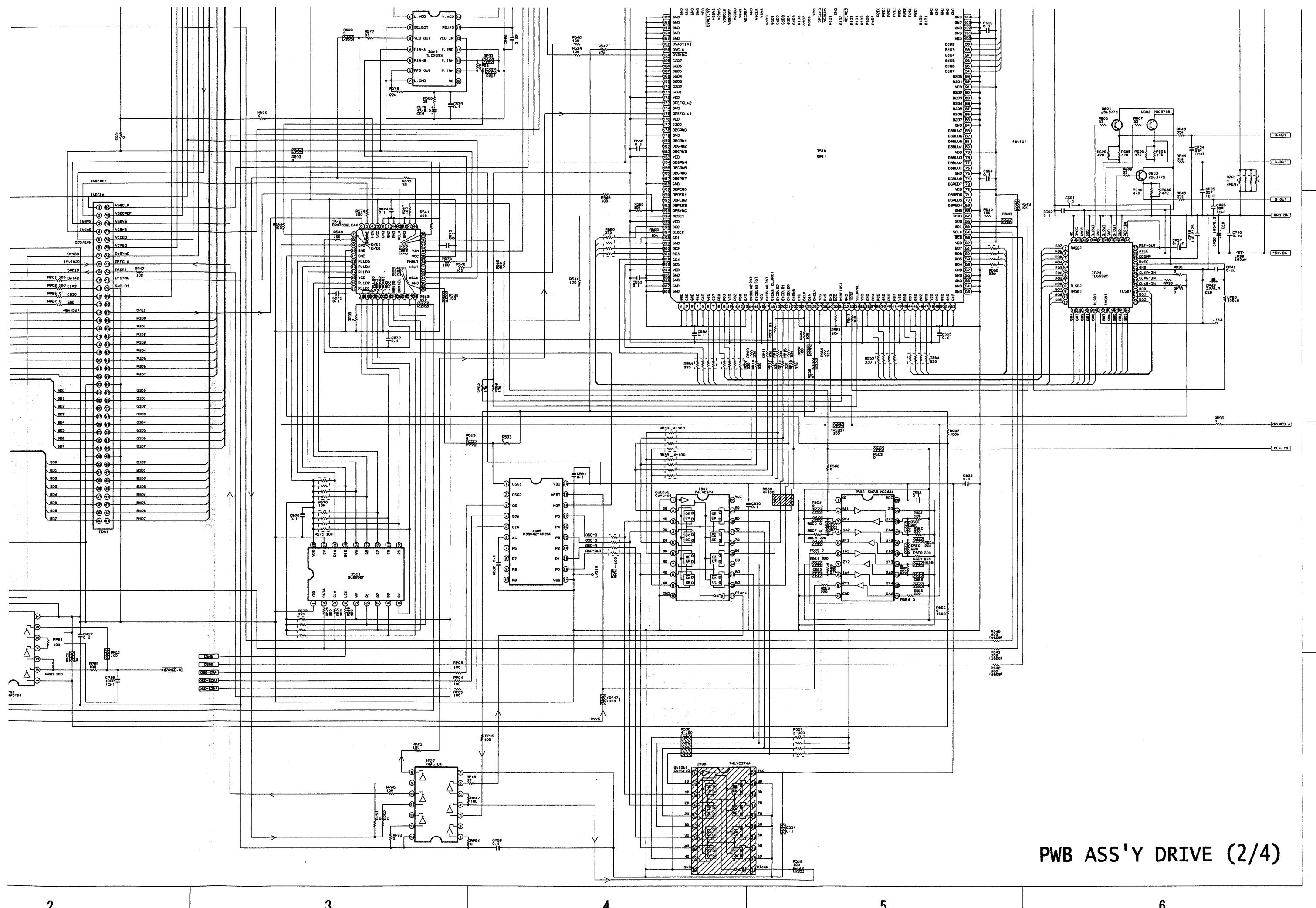
B

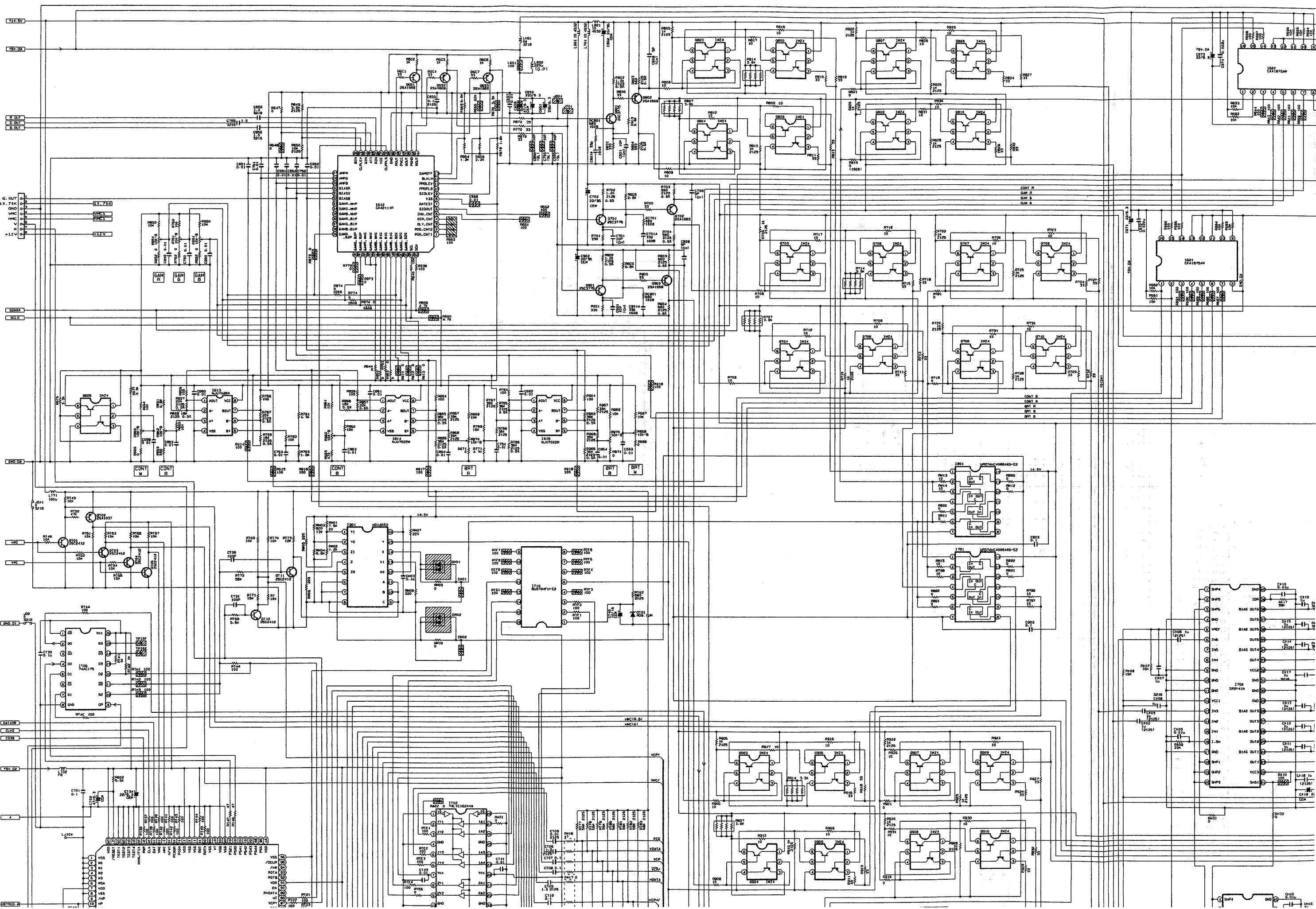
C

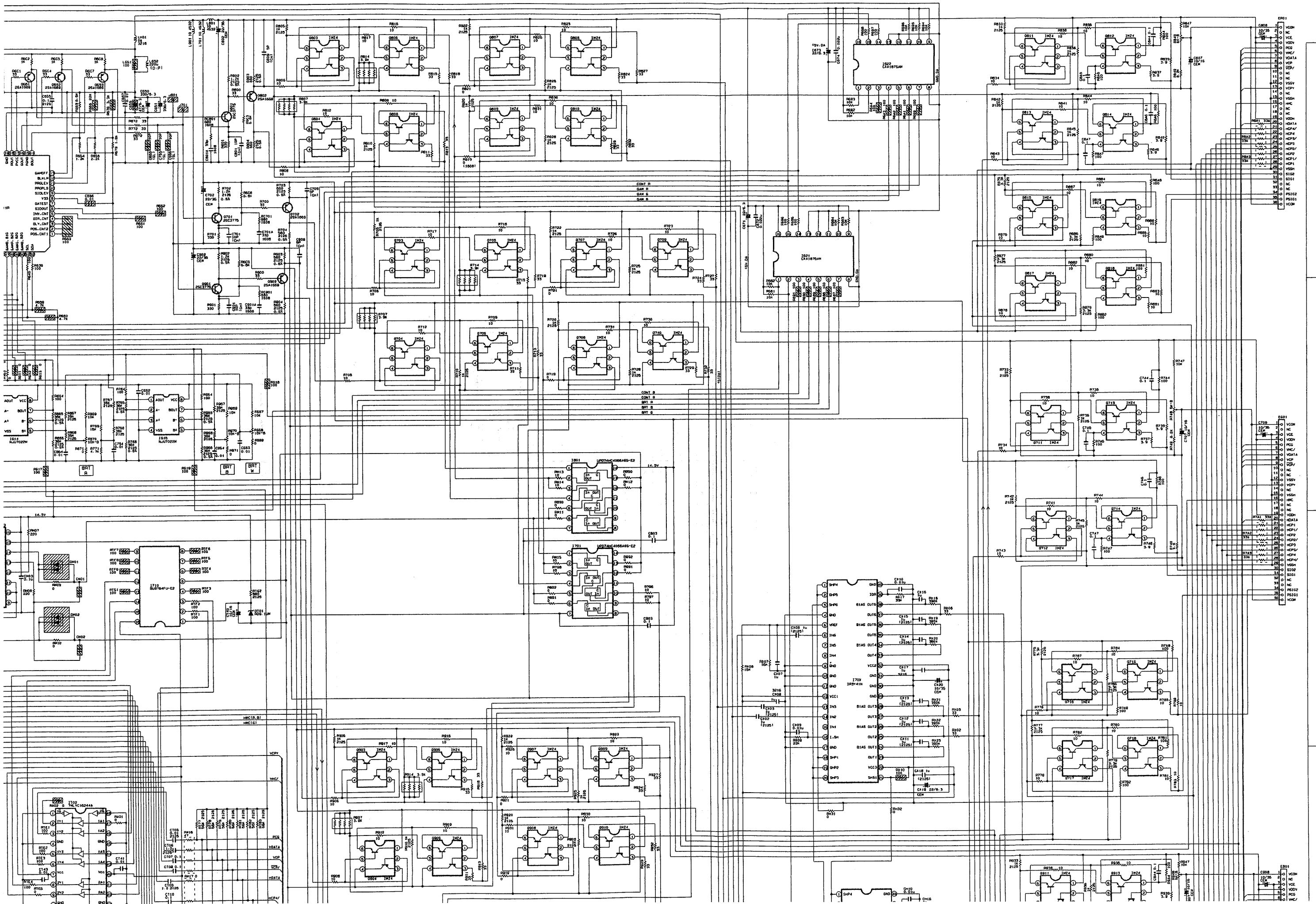
D

E

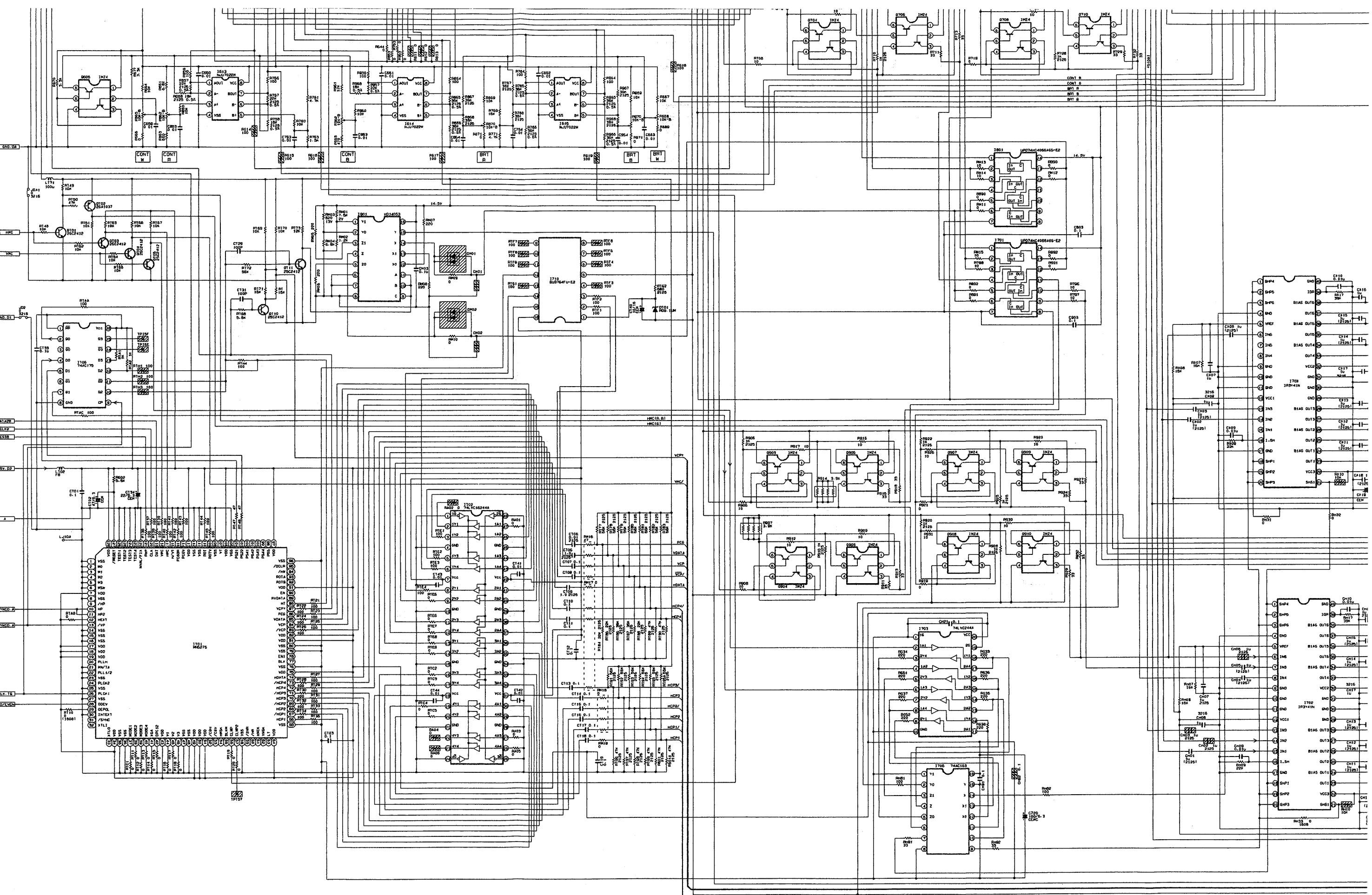
PWB ASS'Y DRIVE (2/4)







B



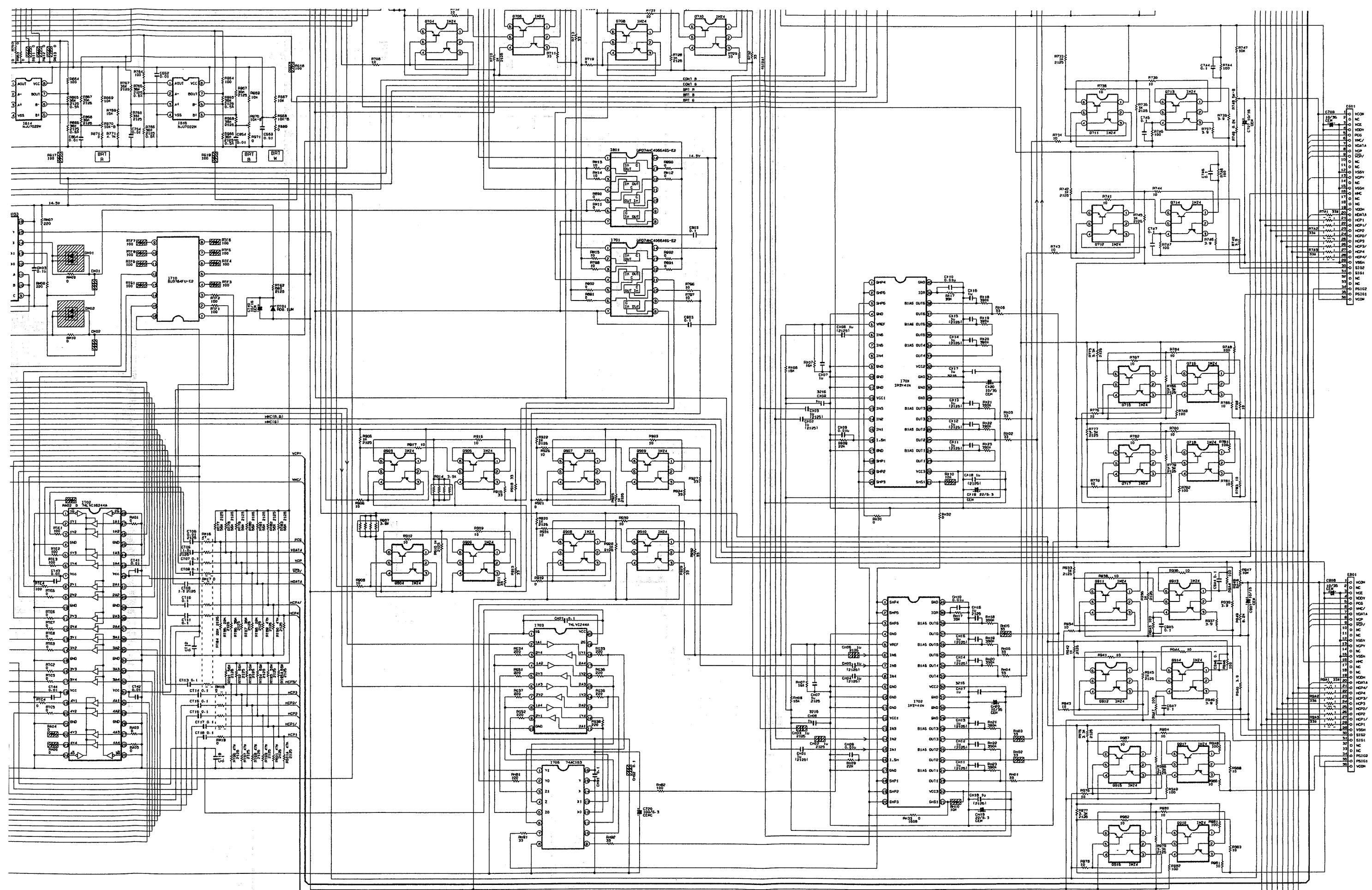
B

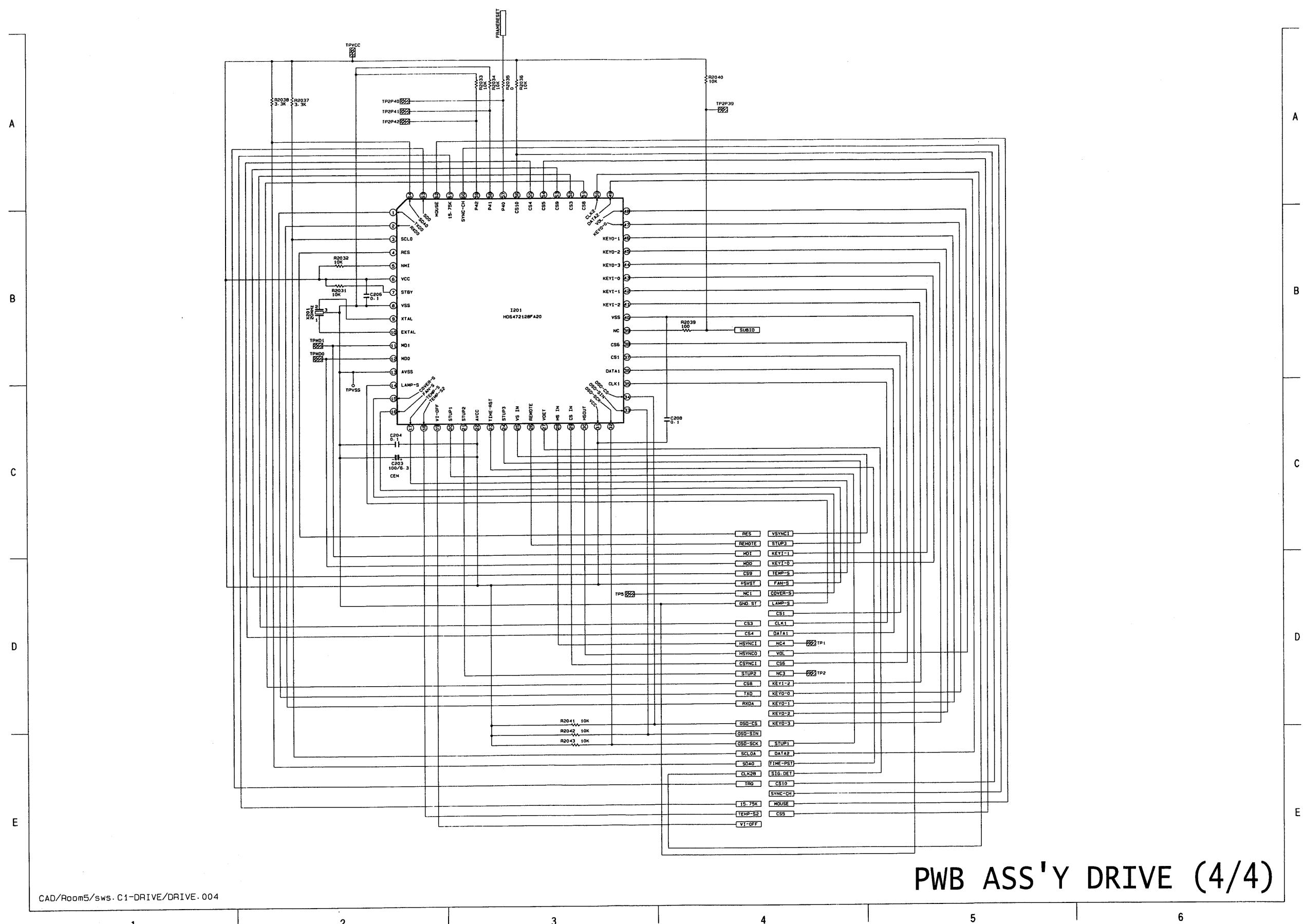
C

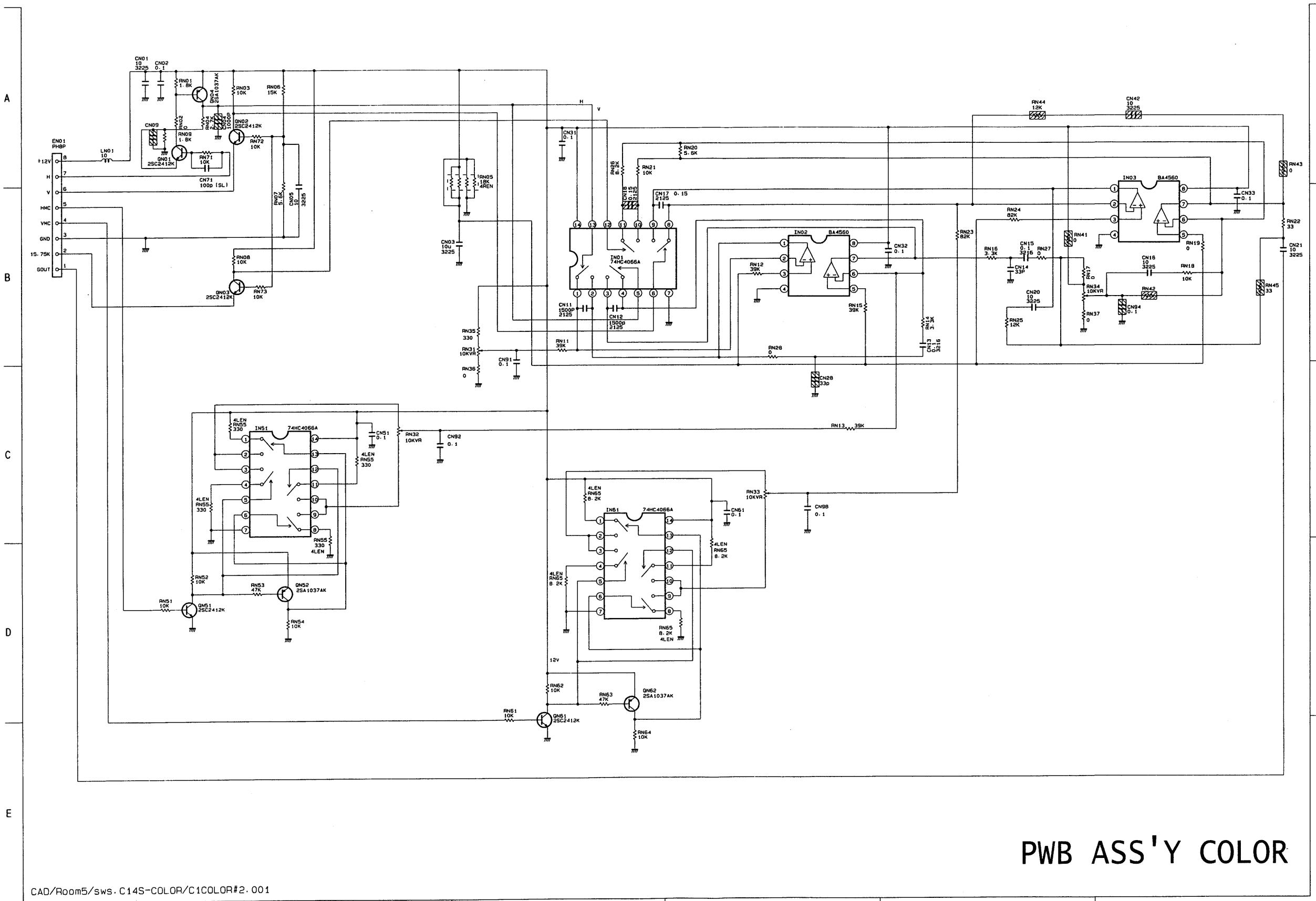
D

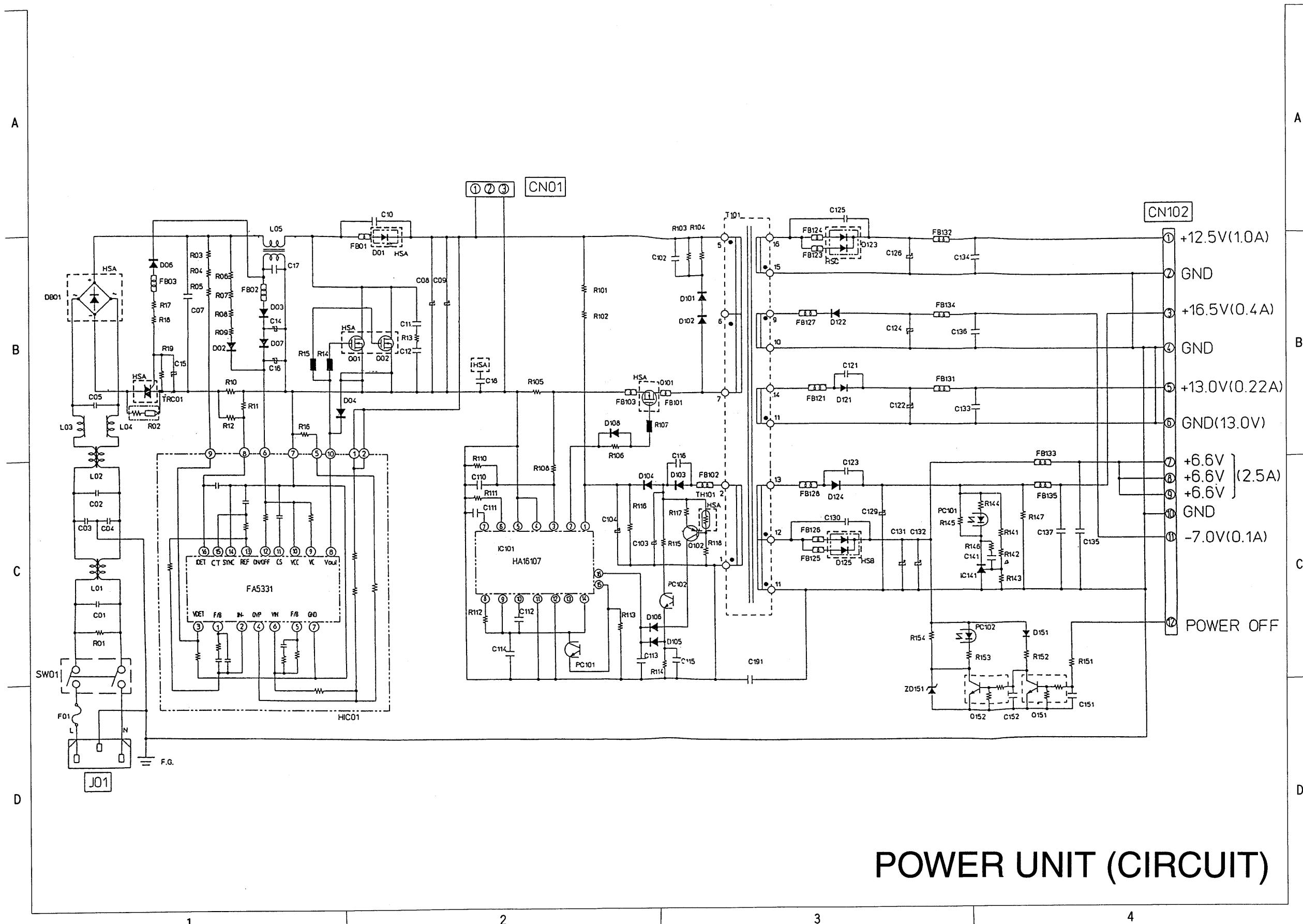
E

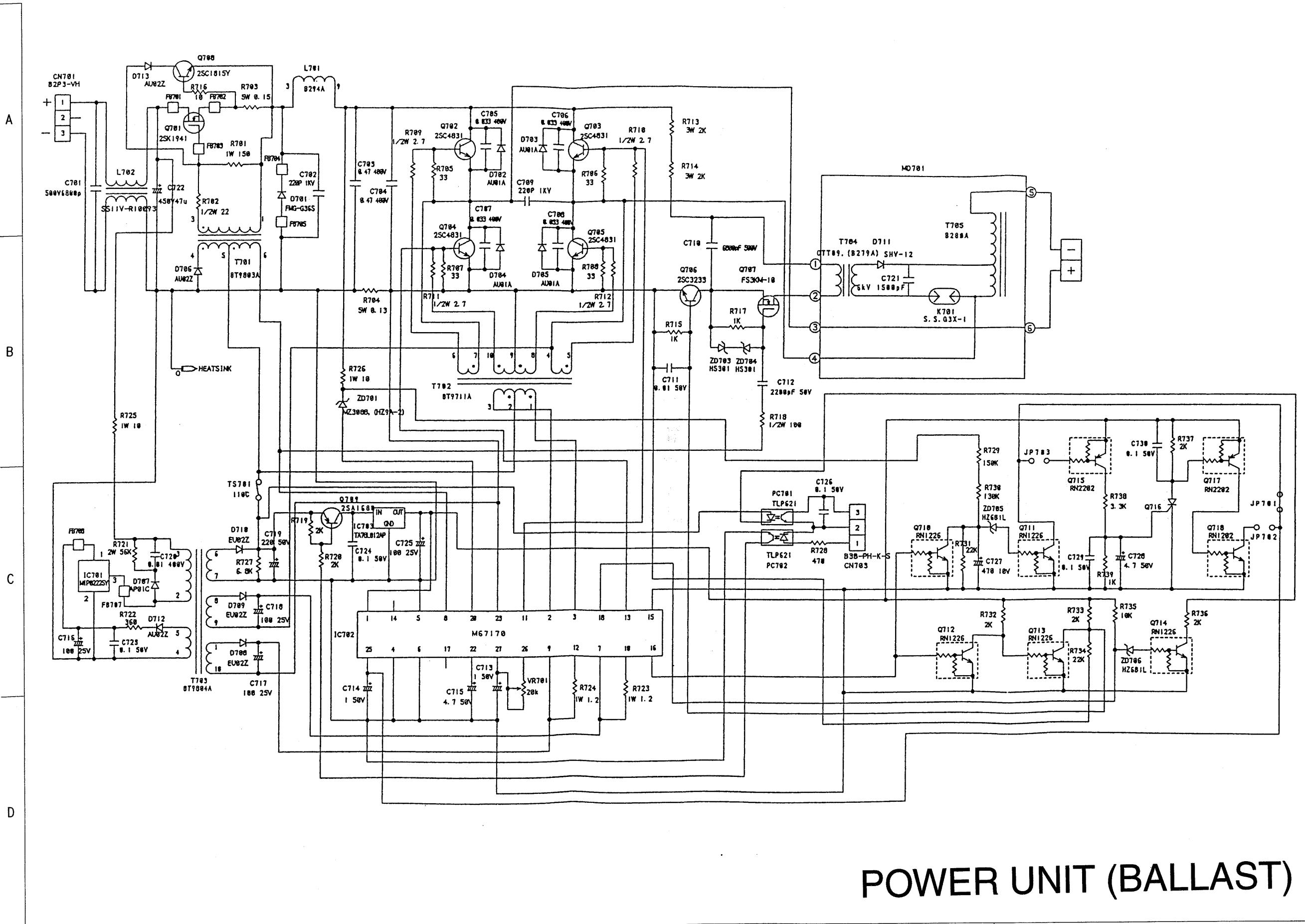
PWB ASS'Y DRIVE (3/4)



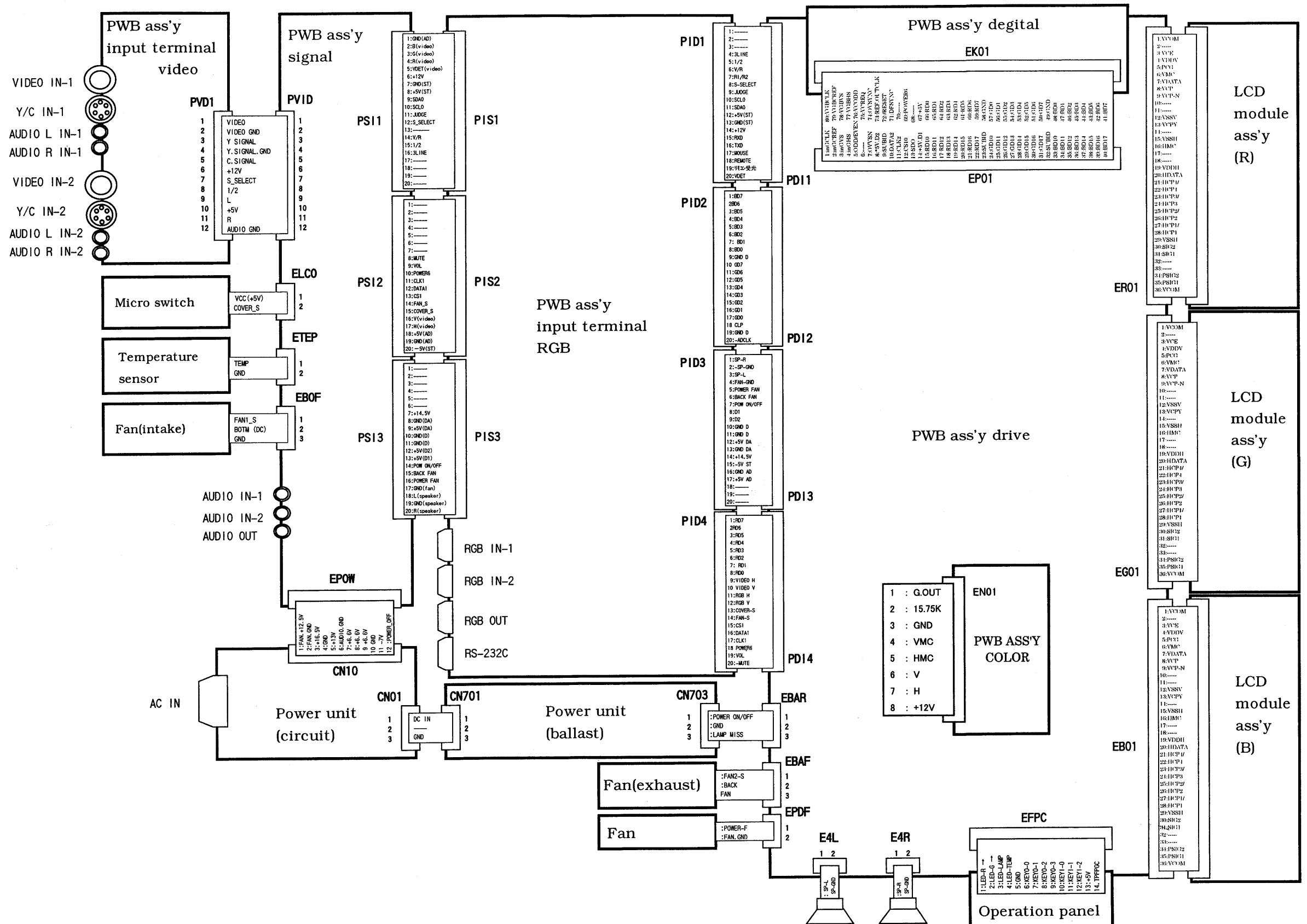




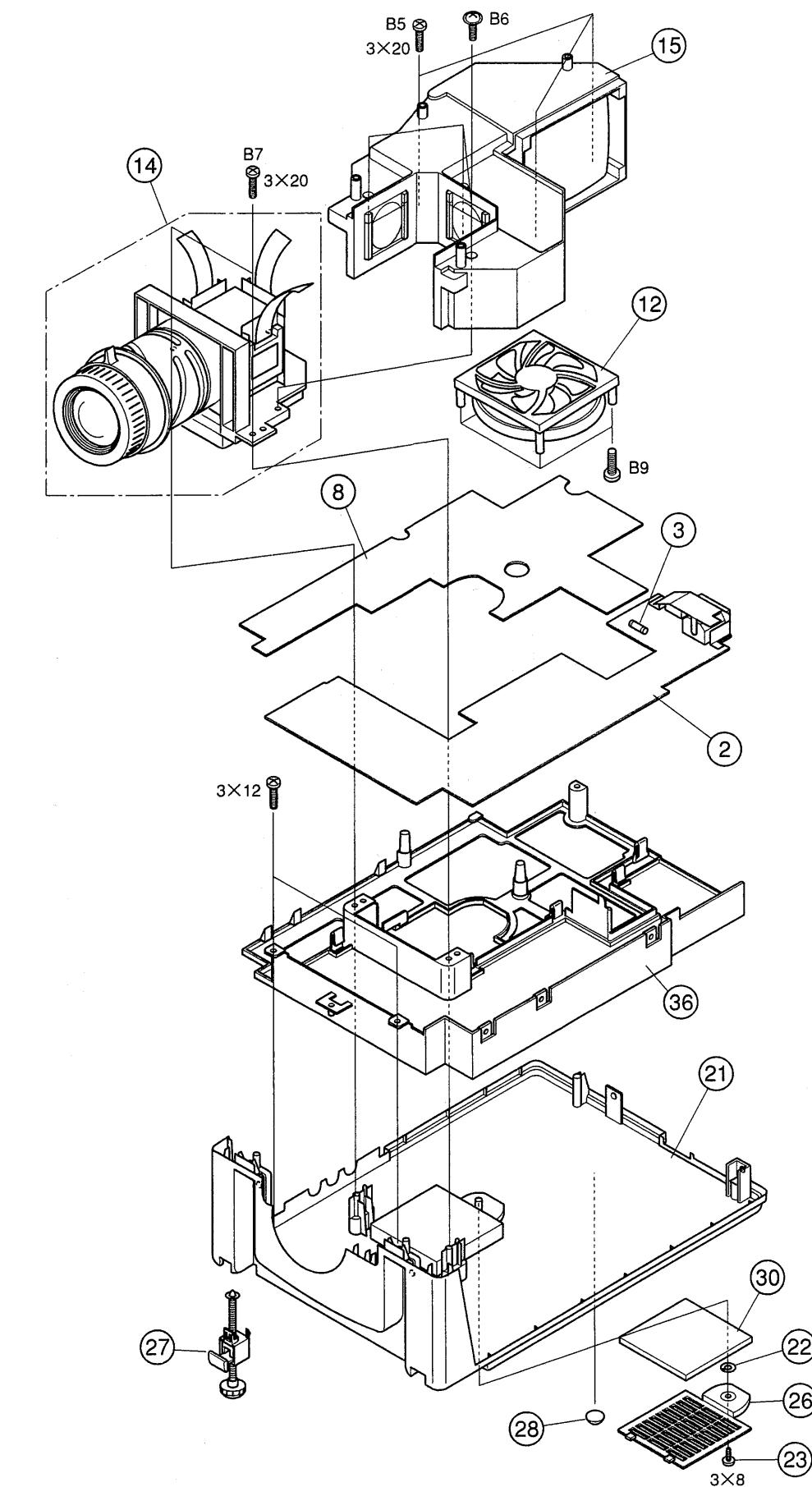
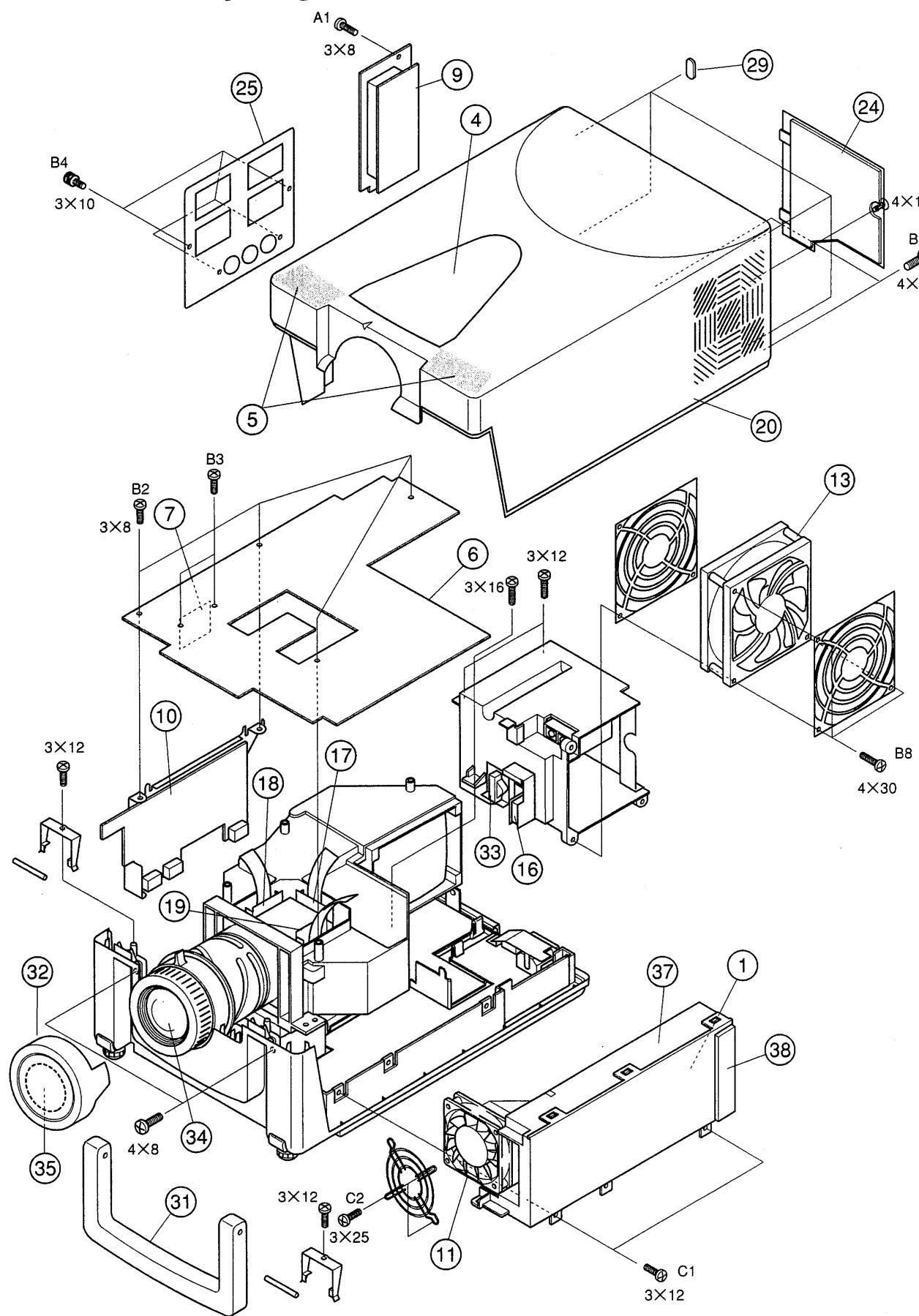




10. Connector connection diagram



11. Disassembly diagram



12. Replacement Parts list

PRODUCT SAFETY NOTE : Components marked with a 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	HA00482	POWER UNIT(BALLAST)	27	QJ00571	ADJUST FOOT
2	HA00491	POWER UNIT(CIRCUIT)	28	PE00052	RUBBER FOOT
3	2722447	FUSE 5A 250V	29	PE00094	LEG CUSHION R
4	HP00711	OPERATION PANEL SWITCH UNIT	30	MU00421	AIR FILTER
5	GK00392	SPEAKER	31	PV00201	HANDLE
6	JP03395F	PWB ASS'Y DRIVE	32	QD06311	LENS CAP
7	JP03026	PWB ASS'Y DIGITAL	33	FU00252	THERMAL SENSOR SWITCH
8	JP03036	PWB ASS'Y SIGNAL	34	KQ01271	C1 LENS ASS'Y (REPAIR)
9	JP03037	PWB ASS'Y INPUT TERMINAL VIDEO	35	ME01771	CAP SHEET
10	JP03038	PWB ASS'Y INPUT TERMINAL RGB	36	QD06251	PCB HOLDER
11	GS00341	DC FAN(POWER)	37	QD06301	BALAST HOLDER B
12	GS00351	DC FAN(INTAKE)	38	MU00531	BALAST CUSHION B
13	GS00332	DC FAN(EXHAUST)			
14	KS01682	LCD/LENS PRISM ASS'Y		EV00881	POWER SUPPLY CORD(UL/CSA TYPE 125V)W/CORE (only CP-S833W)
15	UE05053	DICHROIC OPTICS UNIT C1C		HL01114	REMOTE CONTROL UNIT W/POINTER
16	FH00041	LIMIT SWITCH (MICRO SWITCH)		EV00861	POWER SUPPLY CORD (U.K.TYPE)W/CORE
17	(UX05474)	LCD MODULE ASS'Y(G) (REPAIR)		EV00891	POWER SUPPLY CORD(CONTINENTAL TYPE)W/CORE
18	(UX05475)	LCD MODULE ASS'Y(R) (REPAIR)		EW05015	RGB-D CABLE(15PIN MALE TO 15PIN MALE)
19	(UX05476)	LCD MODULE ASS'Y(B) (REPAIR)		EW10933	CABLE.AV
20	QD05853	UPPER CASE ASS'Y		EY00362	MAC ADAPTER(6SW)
21	QD05861	BOTTOM CASE ASS'Y		EW02753	CABLE.MOUSE PS/2
22	MN01302	POLY-WASHER		EW02743	ADB MOUSE CABLE
23	MJ00311	NOB SCREW		EW02733	SERIAL MOUSE CABLE
24	QD06231	LAMP COVER		DT00182	LAMP UNIT ASS'Y
25	PM07241	I/O DECO PANEL			
26	QD06241	FILTER COVER			

HITACHI

CP-S833W YK No. 0489E Digital Media Systems Division
CP-S833E