FUJITSU

Plasmavision™

P42HCA11WH

SERVICE MANUAL

FUJITSU GENERAL Proprietary

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FUJITSU GENERAL LIMITED

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IMPORTANT INFORMATION

WARNING : TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

Please use a screen saver to prevent burning of an after-image on the screen.

Electrical energy can perform many useful functions. This unit has been engineered and manufactured to assure your personal safety. But IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD. In order not to defeat the safeguards incorporated into this unit, observe the following basic rules governing its installation, use and service. Please read these "Important Safeguards" carefully before use.

Read all the safety and operating instructions before operating the unit.

Retain the safety and operating instructions for future reference.

Adhere to all warnings on the unit and in the operating instructions.

Follow all operating instructions.

Unplug the unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

Do not use attachments not recommended by the manufacturer as they may be hazardous.

Do not use the unit near water. Do not use the unit immediately after moving it from a low temperature to a high temperature environment, as this causes condensation, which may result in fire, electric shock, or other hazards.

Do not place the unit on an unstable cart, stand, or table. The unit may fall, causing serious injury to a child or adult, and serious damage to the unit. Mount the unit according to the manufacturer's instructions, using the mount recommended by the manufacturer.

When the unit is used on a cart, avoid quick stops, excessive force, and uneven surfaces which may cause the unit and cart to overturn, damaging the unit or causing possible injury to the operator.
When transporting by car, place the unit as shown in the figure.

Slots and openings in the cabinet are provided for ventilation. These ensure reliable operation and protect the unit from overheating. These openings must not be blocked or covered. (The openings should never be blocked by placing the unit on a bed, sofa, rug, or similar surface. The unit should not be placed in a built - in installation such as a bookcase or rack unless proper ventilation is provided and the manufacturer's instructions are adhered to.) For proper ventilation, separate the unit from other equipment, which may obstruct ventilation. Keep the unit at least 10cm from other equipment.

Operate only with the type of power source indicated on the label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.

This unit is equipped with a three-wire plug. This plug will fit only into a grounded power outlet. If you cannot insert the plug into the outlet, have an electrician install the proper outlet. Do not defeat the safety purpose of the grounded plug.

Route power cords so that they are not likely to be walked on or pinched by items placed on or against them. Pay particular attention to cords at doors, plugs, receptacles, and where they exit from the unit.

For added protection during a lightning storm, or when the unit is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cabling. This will prevent damage to the unit by lighting and power line surges.

Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in fire or electric shock.

Never push objects of any kind into this unit through openings as they may touch dangerous voltage points or short-circuit parts that could result in a fire or electric shock. Never spill liquid of any kind onto the unit.

Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltages and other hazards. Have all service done by qualified service personnel.

Unplug this unit from the wall outlet and have it serviced by qualified service personnel in the following cases:

a) If the power supply cord or plug is damaged.
b) If liquid has been spilled, or objects have fallen onto the unit.
c) If the unit has been exposed to rain or water.
d) If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the Operation Manual, as improper adjustment of controls may result in damage and will often require extensive work by a qualified technician to restore the unit to normal operation.
e) If the unit has been dropped or damaged in any way.
f) A distinct change in performance indicates that service is required.

When required, be sure the service technician uses replacement parts specified by the manufacturer or parts with the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.

Upon completion of any service of repairs, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

Place the unit more than one foot away from heat sources such as radiators, heat registers, stoves, and other devices (including amplifiers) that produce heat.

When connecting other devices such as VCR's and personal computers, turn off the power to this unit to protect against electric shock.

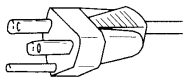
Do not place combustibles such as cloth, paper, matches, aerosol cans or gas lighters that prevent special hazards when overheated behind the cooling fan.

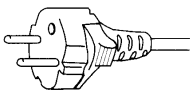
Use only the accessory cord designed for this unit to prevent shock.

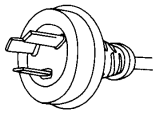
The power supply voltage rating of this unit is AC100-240V, but the attached power cord conforms to the following power supply voltage. Use only the Power Cord designated by our dealer to ensure Safety and EMC.

When used with other power supply voltages, the power cable must be changed.
Consult your local dealer.

Power Cord







Power supply voltage :	AC 100 - 125 V	AC 200 - 240 V	AC-240V (SAA TYPE)

SPECIFICATIONS

Power requirement	110-240V, 50/60Hz
Current drain	4.3-1.8A (P42HCA10W/E) 4.4-1.9A (P42HCA11W/E)
Display panel	
Screen size	92.2(W) X 52.2(H) [cm] 36.3(W) X 20.6(H) [inch]
Aspect ratio	16 : 9
Number of pixels	1,024 (H) X 1024 (V) pixels
Pixel pitch	0.90mm X 0.51mm
Contrast ratio	1000 : 1
Luminance	1000 cd/m^2
Viewing angle	Max. 160 degrees
Input Terminals	
Video input	RCA connector 1.0V_{P-P} /75Ω
S video input	S terminal Y signal:1.0V_{P-P} /75Ω C signal:0.286V_{P-P} /75Ω
Analog RGB 1 input	mD-sub:15pin (3 row type) Video : 0.7V_{P-P}/75Ω SYNC signal : TTL level
Analog RGB 2 input	BNC terminal x 5 R: 0.7V_{P-P}/75Ω G: 0.7V_{P-P}/75Ω B: 0.7V_{P-P}/75Ω H: TTL level or 0.3V_{P-P} /75Ω V: TTL level or 0.3V_{P-P} /75Ω
User set mode	8 memories (each RGB1,2,3)
Display frequency	Horizontal :15.63 to 80.0MHz Vertical : 50.0 to 120Hz Dot clock:50MHz Max XGA 68MHz Max
RS-232C	D-sub 9 pin terminal
Color system	NTSC/PAL/SECAM/N-PAL/M-PAL /4.43NTSC/PAL60
Display colors	16.7 million (256 each for R.G.B.)
Audio input	2 pin terminals(three system) 500mVrms/22kΩ
Effective max. output	Level terminal 20W+20W (L/R), 4Ω (P42HCA11 Only)
Dimensions	Width : 103.5cm (40.7 inch) Height: 64.0cm (25.2 inch) Depth : 8.5 cm (3.3 inch)
Net weight	28.5kg

Environment (Operating)

Temperature	0˚ to 40˚C
Relative humidity	20 to 80%
Pressure	800 to 1,114 hPa

Accessories	User's manual Remote controller Batteries (Type AA x 2) Power cord Big ferrite core (2) Small ferrite core (2) (P42HCA11 Only)
Options	
Stand	P-TT4200
Wall mounting unit	P-WB4200 0˚ to 15˚ mounting angle
Hanging unit	P-CT4200 0˚ to 15˚ mounting angle
Speaker	P-42SP11
Speaker stand	P-42ST11

Standards

P42HCA10WH P42HCA11WH
P42HCA10EH P42HCA11EH

- UL,CSA
  - Safety: UL6500
    C-UL
  - EMC: FCC Part15 Class A
    ICES-003 Class A
- CE
  - Safety: EN60065
  - EMC : EN55022 1998, Class A
    EN61000-3-2 1995
    EN61000-3-3 1995
    EN55024 1998
    EN61000-4-2 1995
    EN61000-4-3 1996
    EN61000-4-4 1995
    EN61000-4-5 1995
    EN61000-4-6 1996
    EN61000-4-8 1993
    EN61000-4-11 1994
- AS
  - Safety : IEC60065
  - EMC : AS/NZS 3548

SETTING SIGNALS

This display can store parameter settings for eight additional signals for RGB.
To do this, select the desired signal and follow "RGB MODE ADJUSTMENT" in the manual to adjust the parameters.
When you finish, the settings will be automatically stored.

FACTORY SET SIGNALS (RGB MODE)

Main corresponding signals (RGB mode)

Display (dots x lines)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Signal	DVI-D
640 x 480	31.47	59.94	VGA	◯
640 x 480	37.50	75.00	VGA 75 Hz	
640 x 480	43.27	85.01	VGA 85 Hz	
720 x 400	31.47	70.09	400 lines	◯
800 x 600	37.88	60.32	SVGA 60 Hz	◯
800 x 600	46.88	75.00	SVGA 75 Hz	
800 x 600	53.67	85.06	SVGA 85 Hz	
1024 x 768	48.36	60.00	XGA 60 Hz	◯
1024 x 768	60.02	75.03	XGA 75 Hz	
1024 x 768	68.68	84.99	XGA 85 Hz	
1280 x 1024	63.98	60.02	SXGA 60 Hz	
1280 x 1024	79.98	75.03	SXGA 75 Hz	
1600 x 1200	75.00	60.00	UXGA 60 Hz	
1600 x 1200	106.25	85.00	UXGA 85 Hz	
848 x 480	31.02	60.00		◯
852 x 480	31.72	59.97		
1360 x 768	47.71	60.01		
720 x 485	15.73	59.94	60 fields	
720 x 575	15.63	50.00	50 fields	

* With some input signals, “Out of range” may appear even when the horizontal and vertical frequencies are within their permissible ranges. Make sure that the vertical frequency of the input signal is 85 Hz or less for SVGA/XGA/UXGA, 75 Hz or less for SXGA.

FACTORY SET SIGNALS (Component video mode)

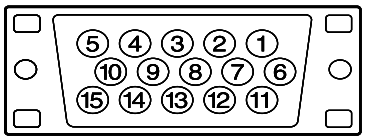
Horizontal frequency (kHz)	Vertical frequency (Hz)	Signal
15.73	59.94	SDTV 480i
15.63	50.00	SDTV 576i
31.47	59.94	SDTV 480p
31.25	50.00	SDTV 576p
45.00	60.00	HDTV 720p
37.50	50.00	HDTV 720p
33.75	60.00	HDTV 1,080i
28.13	50.00	HDTV 1,080i

FACTORY SET SIGNALS (Video, S-video mode)

Horizontal frequency (kHz)	Vertical frequency (Hz)	Signal
15.73	59.94	NTSC
15.63	50.00	PAL
15.63	50.00	SECAM
15.63	59.52	PAL 60
15.63	50.00	N-PAL
15.73	59.95	M-PAL
15.73	59.94	4.43 NTSC

- In the 800 x 600 and 1,024 x 768 modes, images of reduced size are displayed on the screen, using size reduction and interpolation. Also note that on-screen information is also displayed in reduced size.
- " Out of range" appears if the display receives a signal whose characteristic does not fall within the display's permissible range.
- You can check the input signals with "Information" on the OTHERS Menu screen.

RGB INPUT TERMINAL

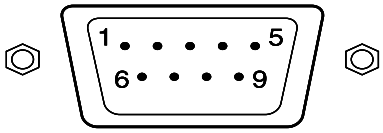


∗ The sync switch (TTL/ANALOG switch) is on the rear of the 13-pin horizontal sync and 14-pin vertical sync terminals.

Pin No.	Input signal	Pin No.	Input signal
1	Red	9	
2	Green	10	Ground
3	Blue	11	
4		12	
5	Ground	13	Horiz. sync
6	Ground	14	Vert. sync
7	Ground	15	
8	Ground	Outer side	Ground

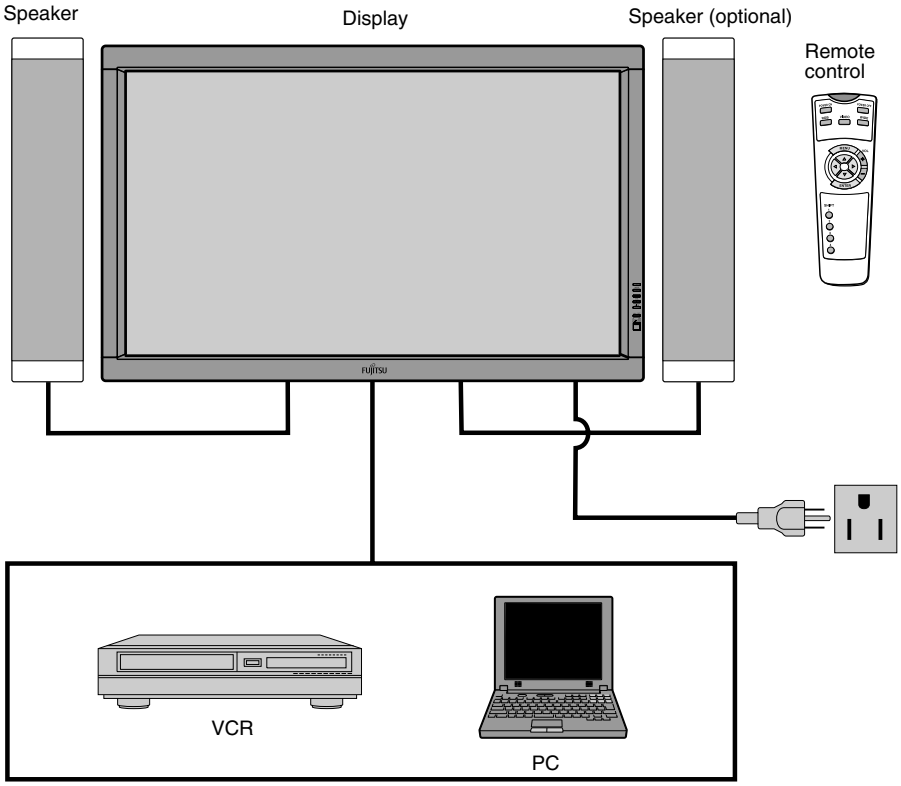
RS-232C INPUT TERMINAL

Pin No.



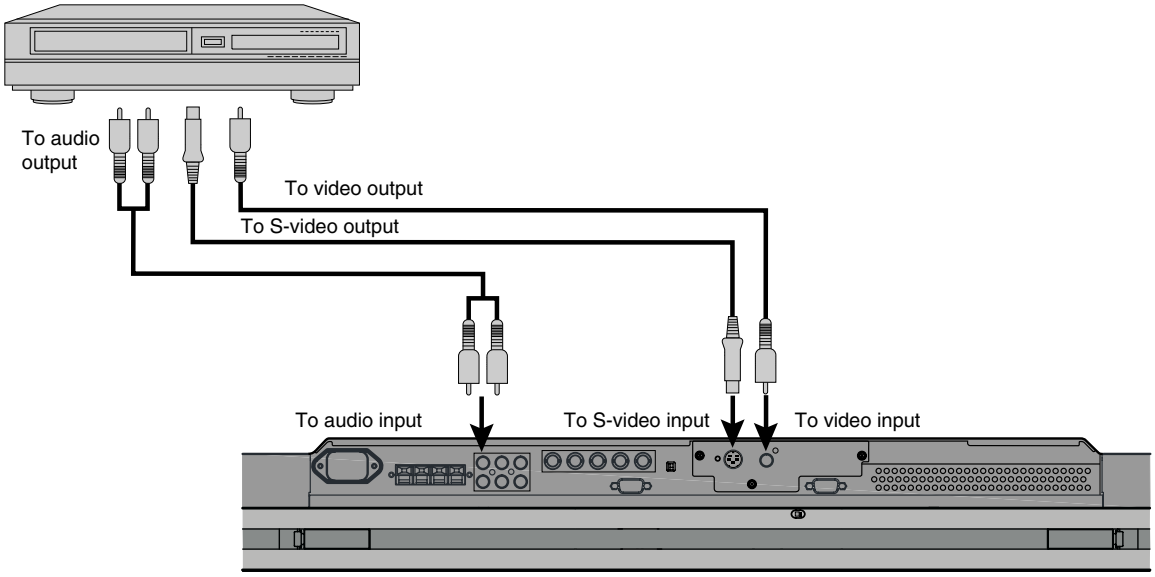
Pin No.	No. signal
1	DCD (Data Carrier Detect)
2	RD (Receive Data)
3	TD (Transmit Data)
4	DTR (Data Terminal Ready)
5	GND (Ground)
6	DSR (Data Set Ready)
7	RTS (Request To Send)
8	CTS (Clear To Send)
9	RI (Ring Indication)

EXAMPLE OF CONNECTION TO EXTERNAL COMPONENTS



VCR

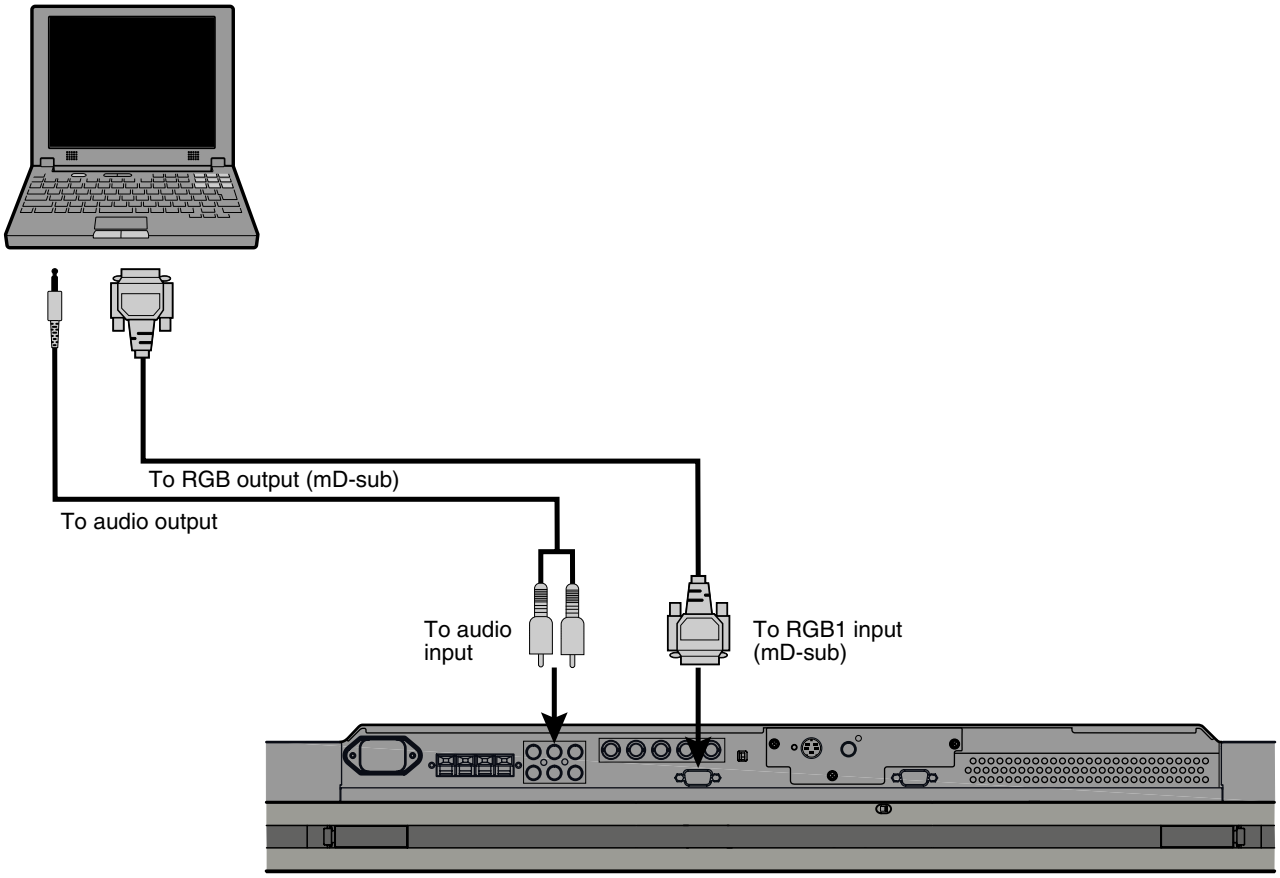
- Connect the video signal cable to either the S-video input terminal or the video input terminal.



Bottom of Display (Ex.: P42VCA11 series)

PC

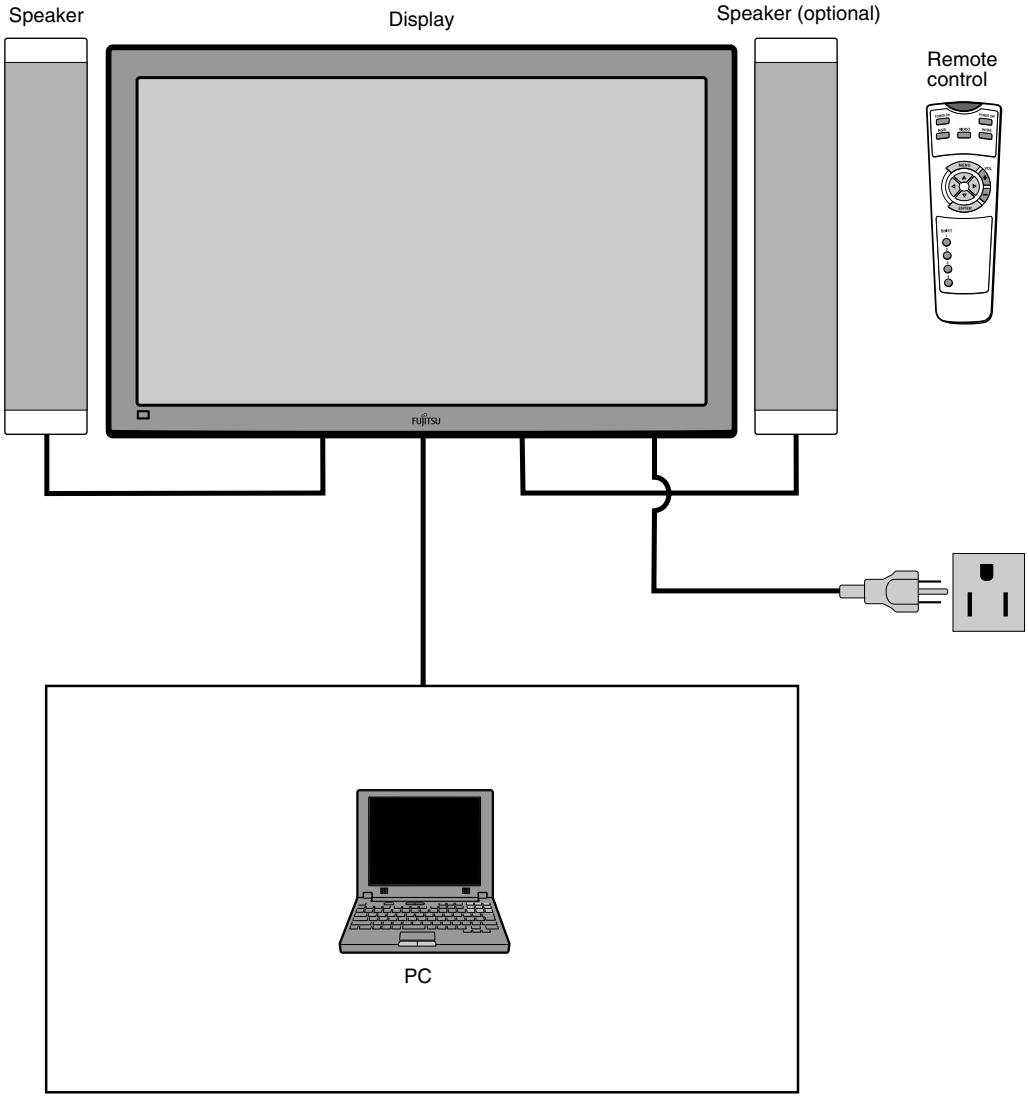
- As the cable for connecting a PC differs with the PC model, please consult your dealer for information on the right cable to purchase.



Bottom of Display (Ex.: P42VCA11 series)

* Video board nothing

EXAMPLE OF CONNECTION TO EXTERNAL COMPONENTS



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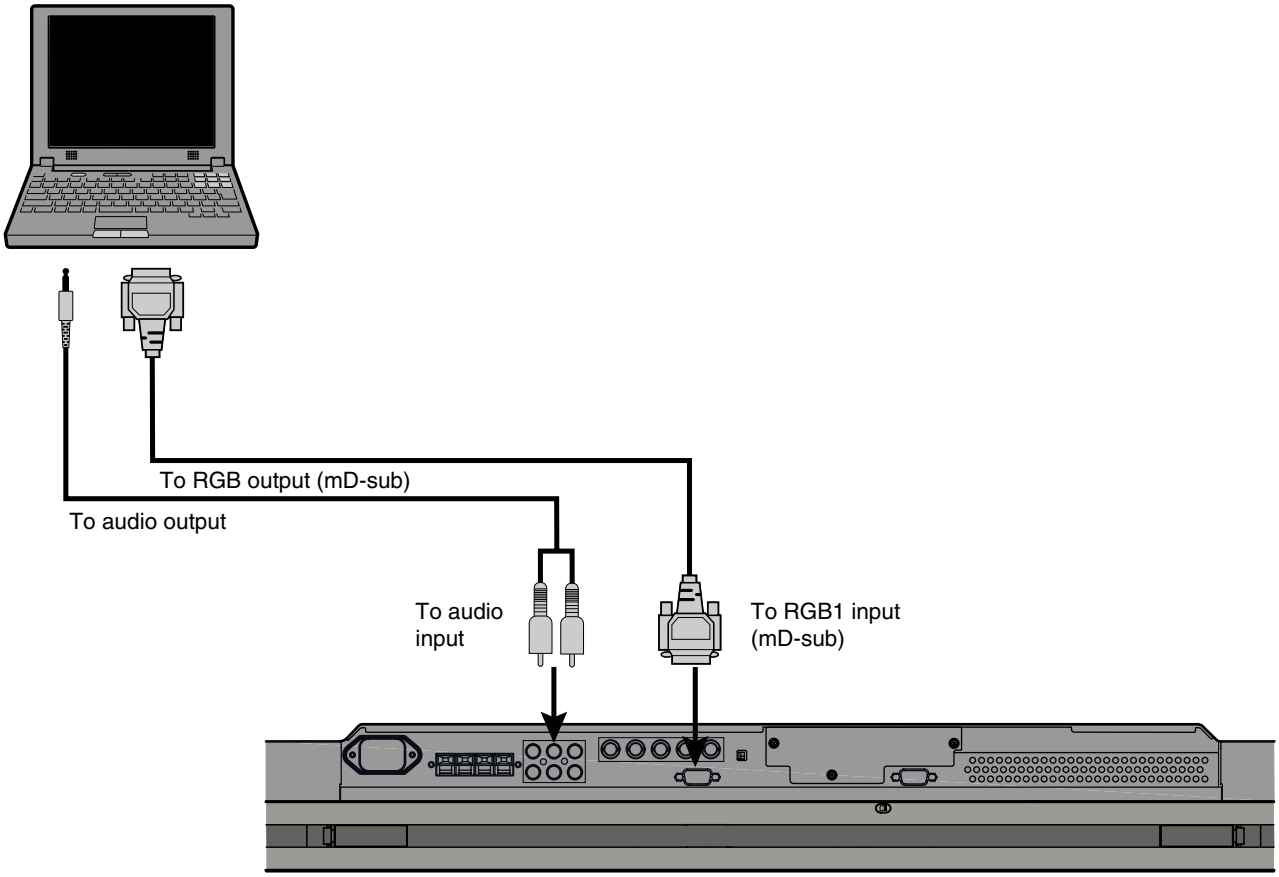
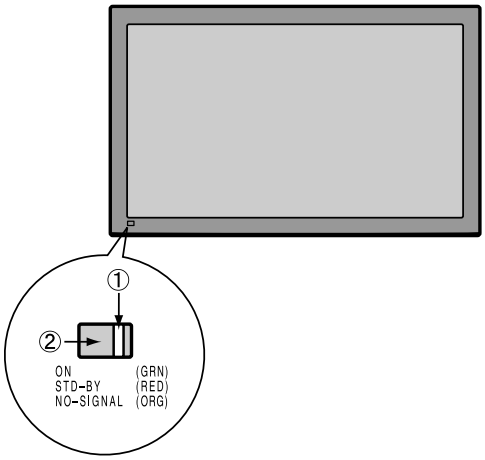


Bottom of Display (Ex.: P42VCA11 series)

PART NAMES AND FUNCTIONS

Front (both 42" and 50")



① **Power indicator lamp**

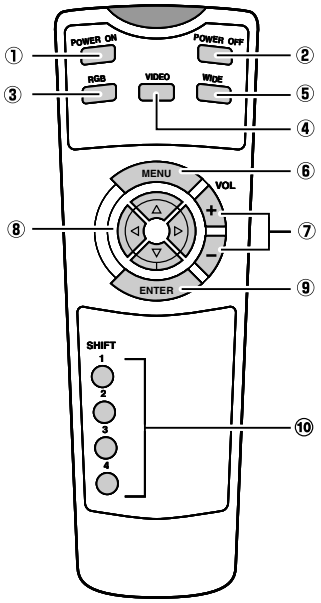
This lamp shows the state of the power supply.

Lit (red):	Stand-by
Lit (green):	Power ON
Lit (orange):	Power saving (DPMS: Power saving function) mode ON
Flashing (red):	Malfunction (Flashes differently depending on the type of malfunction.)

② **Remote control signal receiver**

Receives signals from the remote control.

REMOTE CONTROL



① **Power ON button [POWER ON]**
Turns the power ON.

② **Power OFF button [POWER OFF]**
Turns the power OFF.

③ **RGB input mode selector button [RGB]**
Switches between RGB input modes.

④ **Video input mode selector button [VIDEO]**
Switches between video input modes.

⑤ **Wide screen selector button [WIDE]**
Switches the screen over to a desired wide screen.

⑥ **Menu button [MENU]**
Use this button to display a desired menu for adjusting the picture.

⑦ **Volume adjustment buttons [VOL +/-]**
Adjust the volume. Press the + button to increase the volume.
Press the - button to reduce the volume.
* Not used with P50XCA10.

⑧ **Adjustment buttons [◀/▶/▼/▲]**
Use these buttons to scroll through options in a menu and change values.

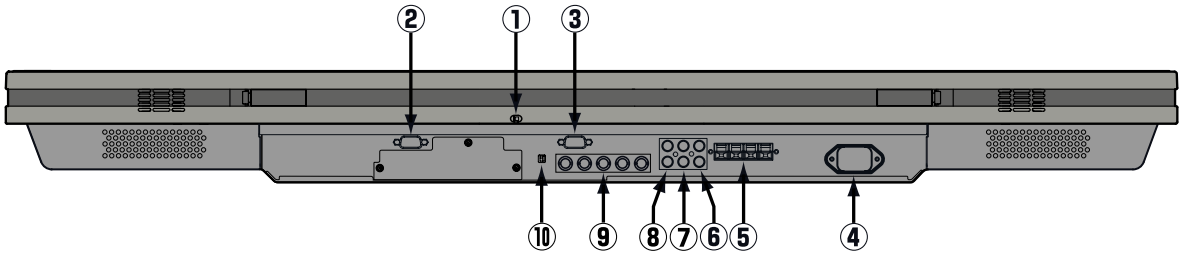
⑨ **Enter button [ENTER]**
Press this button to finalize the selection of a desired menu or option within a menu.

⑩ **Display selector buttons [SHIFT 1-4]**
When you use two or more displays, you can use these buttons to control up to four displays by assigning an unique number to each display.

* Video board nothing

DISPLAY SECTION – LOWER PART

Bottom (42" HCA type)



① **OFF/STD-BY ⏻ switch**

OFF :The power indicator lamp goes off, and the power can't be turned on by the power button. The power is partly supplied.

STD-BY ⏻:The power indicator lamp lights red, and the power can be turned on or off by the power button.

② **RS-232C terminal (RS-232C)**
This terminal is provided for you to control the display from the PC. Connect it to the RS-232C terminal on the PC.
When connecting a cable, attach a ferrite core to the cable.

③ **RGB1 input terminal (RGB1 INPUT/mD-sub)**
Connect this terminal to the PC's display (analog RGB) output terminal or decoder (digital broadcast tuner, etc.) output terminal.

④ **Power input terminal**
Connect this terminal to the power cable supplied with the display.
When connecting a cable, attach a ferrite core to the cable.

⑤ **External speaker output terminal (EXT SP)**
Connect this terminal to the optionally available speaker.
(When using other speaker than the optional one, use 4-16Ω speaker.)
When connecting a cable, attach a ferrite core to the cable.
*See the speaker instruction manual for more information.
* P42HCA11 only.

⑥ **Sound 1 input terminal (AUDIO1 INPUT)**

⑦ **Sound 2 input terminal (AUDIO2 INPUT)**

⑧ **Sound 3 input terminal (AUDIO3 INPUT)**
Connect this terminal to the sound output terminal of your computer, etc.
* This terminal is not available for P42HCA10.

⑨ **RGB2 input terminal (RGB2 INPUT/BNC)**
Connect this terminal to the PC's display (analog RGB) output terminal or decoder (digital broadcast tuner,etc.) output terminal.

⑩ **RGB2 synchronization switch (SYNC SW TTL/ANALOG (75 Ω))**

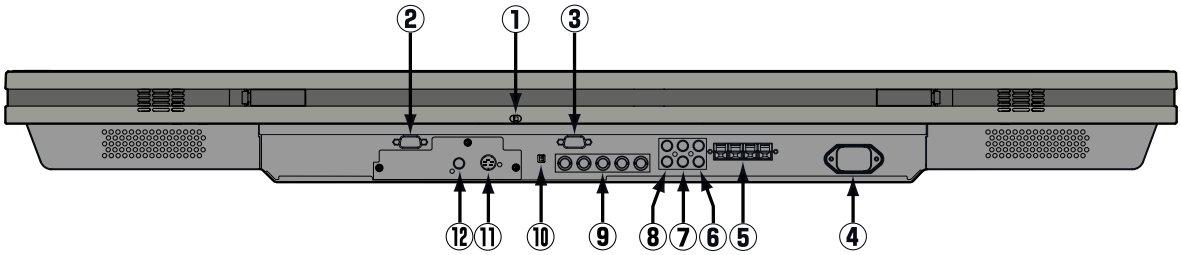
This switch is used to terminate horizontal (H) terminal and vertical (V) terminal, out of RGB2 input terminals, with 75 Ω.

TTL : Does not terminate.

ANALOG (75 Ω): Terminates.

DISPLAY SECTION – LOWER PART

Bottom (42"HCA type)



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④ **Power input terminal**
Connect this terminal to the power cable supplied with the display.
When connecting a cable, attach a ferrite core to the cable.

⑤ **External speaker output terminal (EXT SP)**
Connect this terminal to the optionally available speaker.
(When using other speaker than the optional one, use 4-16Ω speaker.)
When connecting a cable, attach a ferrite core to the cable.
*See the speaker instruction manual for more information.
* P42HCA11 only.

⑥ **Sound 1 input terminal (AUDIO1 INPUT)**

⑦ **Sound 2 input terminal (AUDIO2 INPUT)**

⑧ **Sound 3 input terminal (AUDIO3 INPUT)**
Connect this terminal to the sound output terminal of your VCR, etc.
* This terminal is not available for P42HCA10.

⑨ **RGB2 input terminal (RGB2 INPUT/BNC)**
Connect this terminal to the PC's display (analog RGB) output terminal.

⑩ **RGB2 synchronization switch (SYNC SW TTL/ANALOG (75 Ω))**

This switch is used to terminate horizontal (H) terminal and vertical (V) terminal, out of RGB2 input terminals, with 75 Ω.

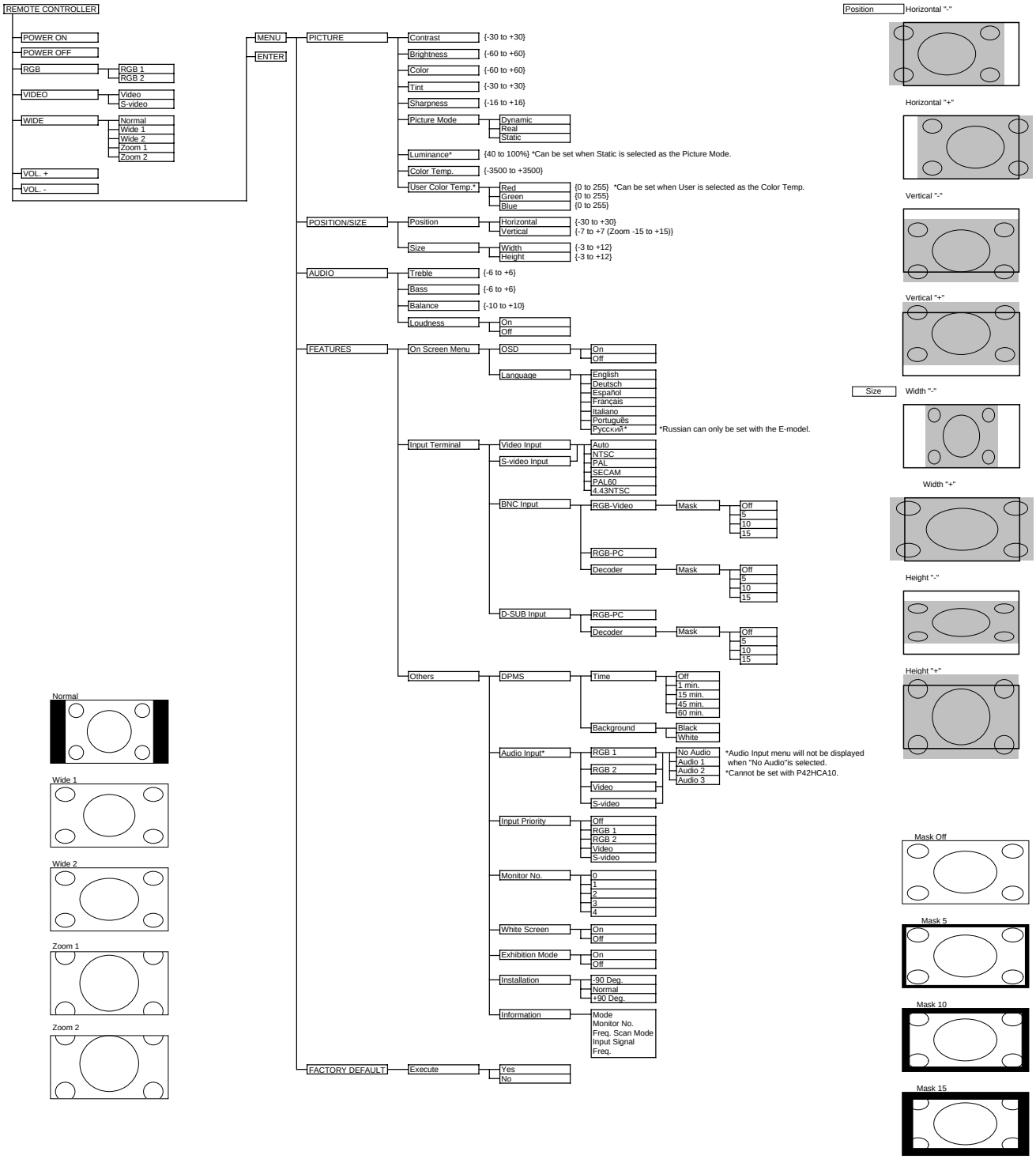
TTL : Does not terminate.

ANALOG (75 Ω): Terminates.

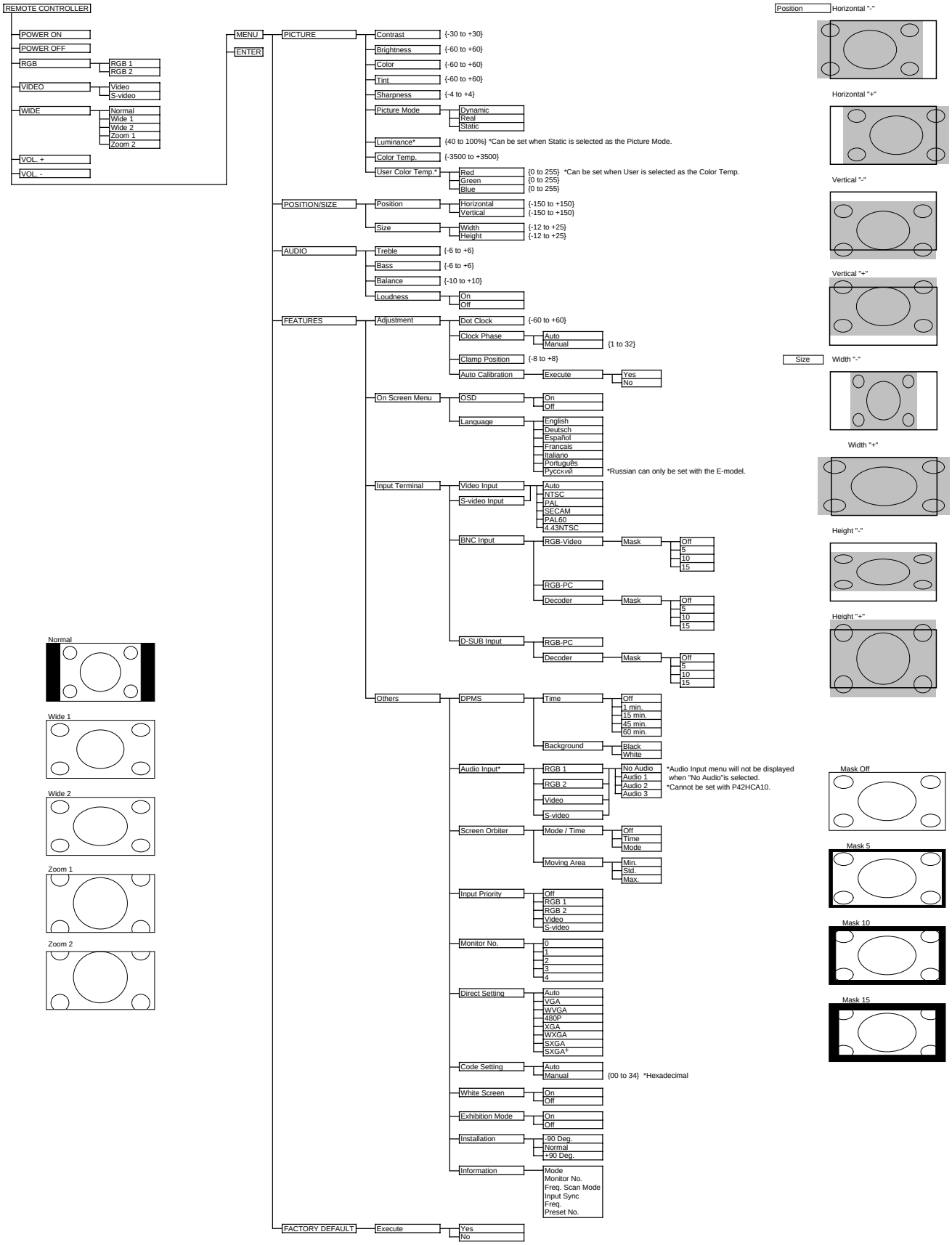
⑪ **Video input terminal (VIDEO INPUT)**
Connect this terminal to the video output terminal of your VCR.

⑫ **S-Video input terminal (S-VIDEO INPUT)**
Connect this terminal to the S-video output terminal of your VCR.

VIDEO MODE ADJUSTMENT



RGB MODE ADJUSTMENT



TROUBLESHOOTING USING LED AND OSD

1. Display

(1) OSD

Three kinds of error messages are displayed on the screen, and the power is turned off 10 sec later.

(2) LED

LED error is displayed continuously after the power is turned off.

2. Error types and check points

(1) OSD

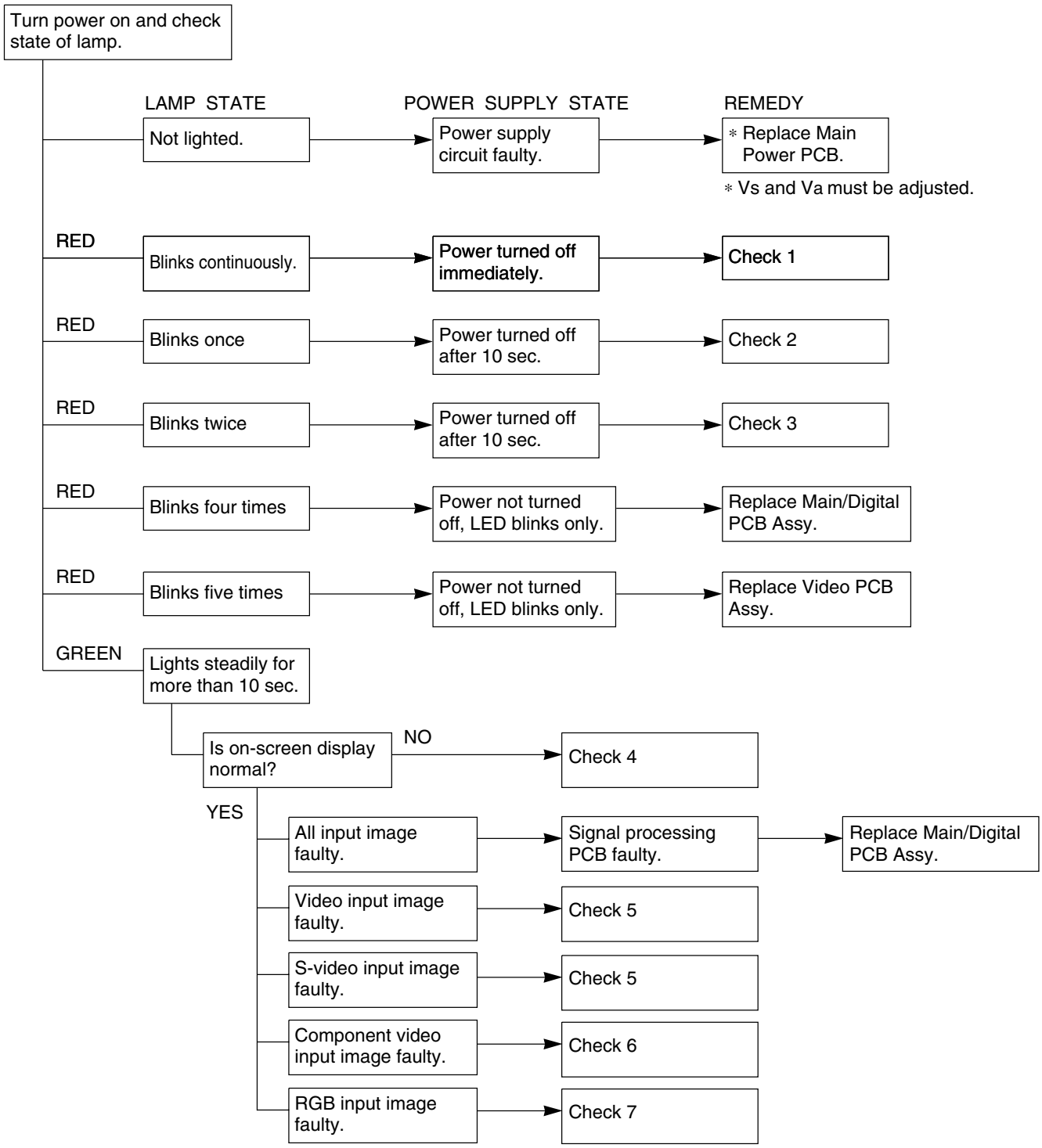
On screen display	Cause	Check point
ERROR MESSAGE CONDITION 1	Fan protector operated	● Fan ● Main power PCB ● Main/Digital PCB
ERROR MESSAGE CONDITION 2	Temperature protector operated	● Ambient temperature of unit ● Main/Digital PCB ● Temp. sensor IC757

(2) LED

LED lamp display status	Cause	Check point
Steady light (Red)	Stand-by status	————
Continuous Flashes continuously (Red)	No power Power supply protector operated	● Main power PCB ● PDP panel
1 time Flashes once every 4 sec. (Red)	Fan protector operated	● Fan ● Main power PCB ● Main/Digital PCB
2 times Flashes twice every 5 sec. (Red)	Temperature protector operated	● Ambient temperature of unit ● Temperature sensor IC757 ● Main/Digital PCB
4 times Flashes four times every 7 sec. (Red)	Main/Digital circuit faulty	● Main/Digital PCB
5 times Flashes five times every 8 sec. (Red)	Video circuit faulty	● Video PCB Assy

LED lamp blinking

Note : 1. Since a voltage is applied to the Main Power PCB heat sinks while the set is operating, do not touch the heat sinks.
2. If the Main Power PCB insulation sheet is not installed when assembling, the Main Power PCB fuse will blow.



Check 1

Power supply protector operated

Power lamp : Flashing continuously in red.
(at an interval of 1 sec.)

Start

(1) Pull out Power Cord Plug and disconnect connectors CN6, CN23, CN33, CN42 and CN52 on Main Power PCB.
(2) • Connect pin 1 and pin 13 of CN352 through a 1/4W, 1KΩ resistor.
• Connect pin 1 of CN352 and pin 5 of CN509 through a 1/4W, 1KΩ resistor.
• CN502 shorted.
(3) Plug in Power Cord Plug and turn on power switch.

Does lamp change to green?

Yes → PDP faulty. → ∗ Replace PDP.

∗ Vs and Va must be adjusted.

No

(1) Pull out Power Cord Plug and disconnect connectors CN351 and CN352 on Main Power PCB.
(2) • Connect pin 1 and pin 13 of CN352 through a 1/4W, 1KΩ resistor.
• Connect pin 1 of CN352 and pin 5 of CN509 through a 1/4W, 1KΩ resistor.
• CN502 shorted.
(3) Disconnect connectors on Main Power PCB. (CN6, CN23, CN33, CN42, CN52)
(4) Plug in Power Cord Plug and turn on power switch.

Is voltage at each connector on Main Power PCB normal? See page **

No → Power Supply circuit faulty. → ∗ Replace Main Power PCB.

∗ Vs and Va must be adjusted.

Yes

(1) Pull out Power Cord Plug and connect connector CN351 and CN352 to Power Supply Unit.
(2) Remove Video PCB Assy.
(3) Plug in Power Cord Plug and turn on power switch.
(4) Check state of green lamp.

Is green lamp lit continuously?

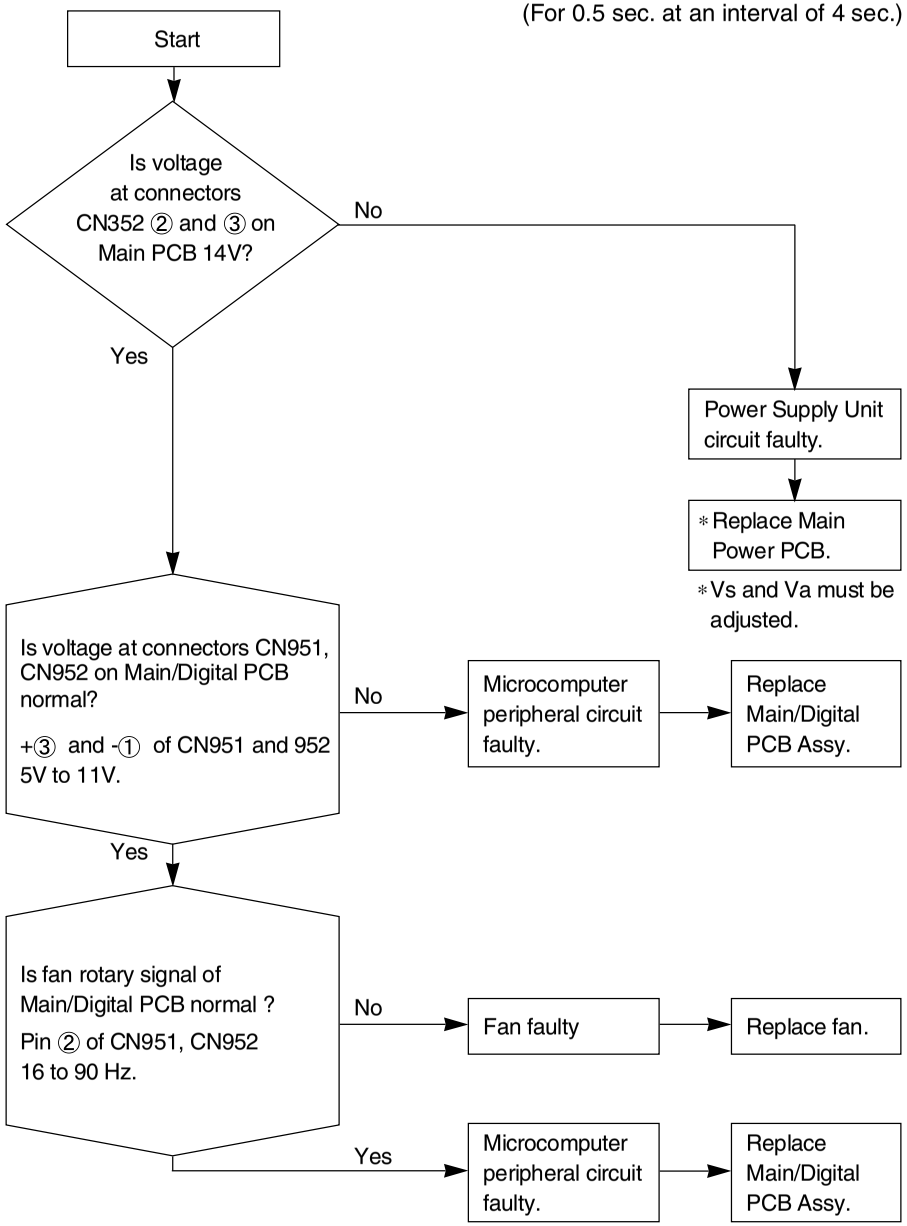
No → Main/Digital circuit faulty. → Replace Main /Digital PCB Assy.

Yes → Video circuit faulty. → Replace Video PCB Assy.

Check 2

Fan protector operated

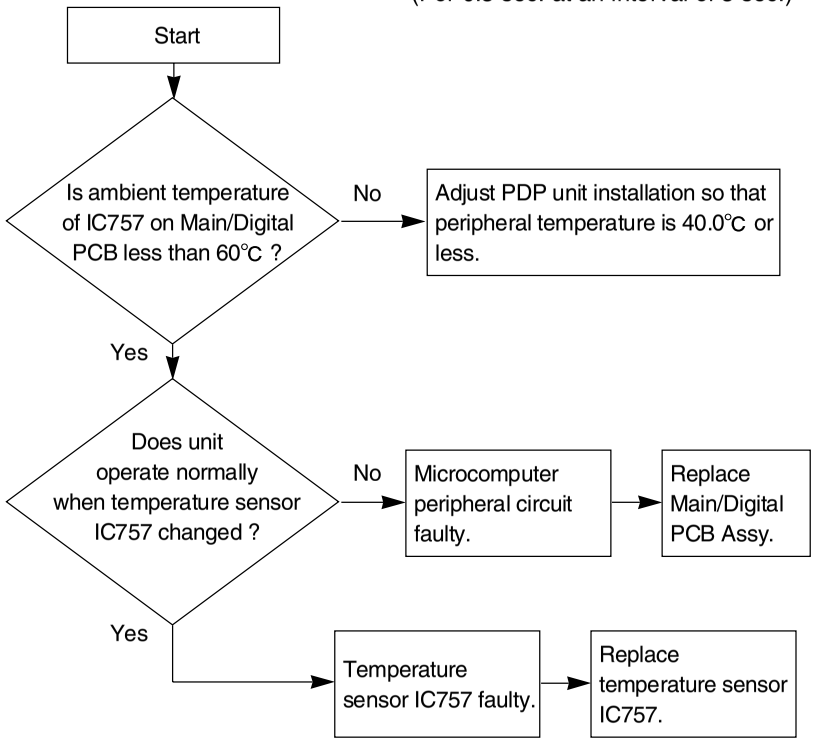
Power lamp: Flashes once intermittently in red.
(For 0.5 sec. at an interval of 4 sec.)

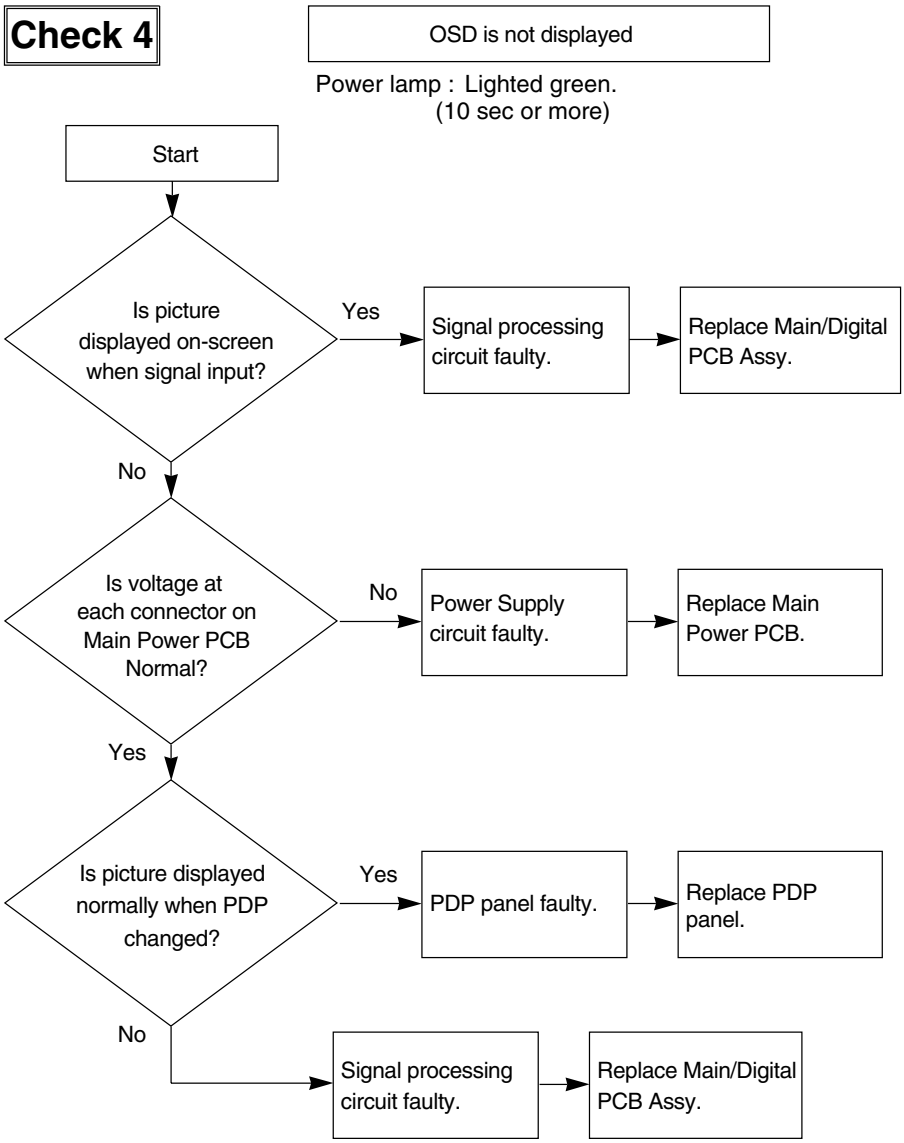


Check 3

Temperature protector operated

Power lamp : Flashes intermittently twice in red.
(For 0.5 sec. at an interval of 5 sec.)

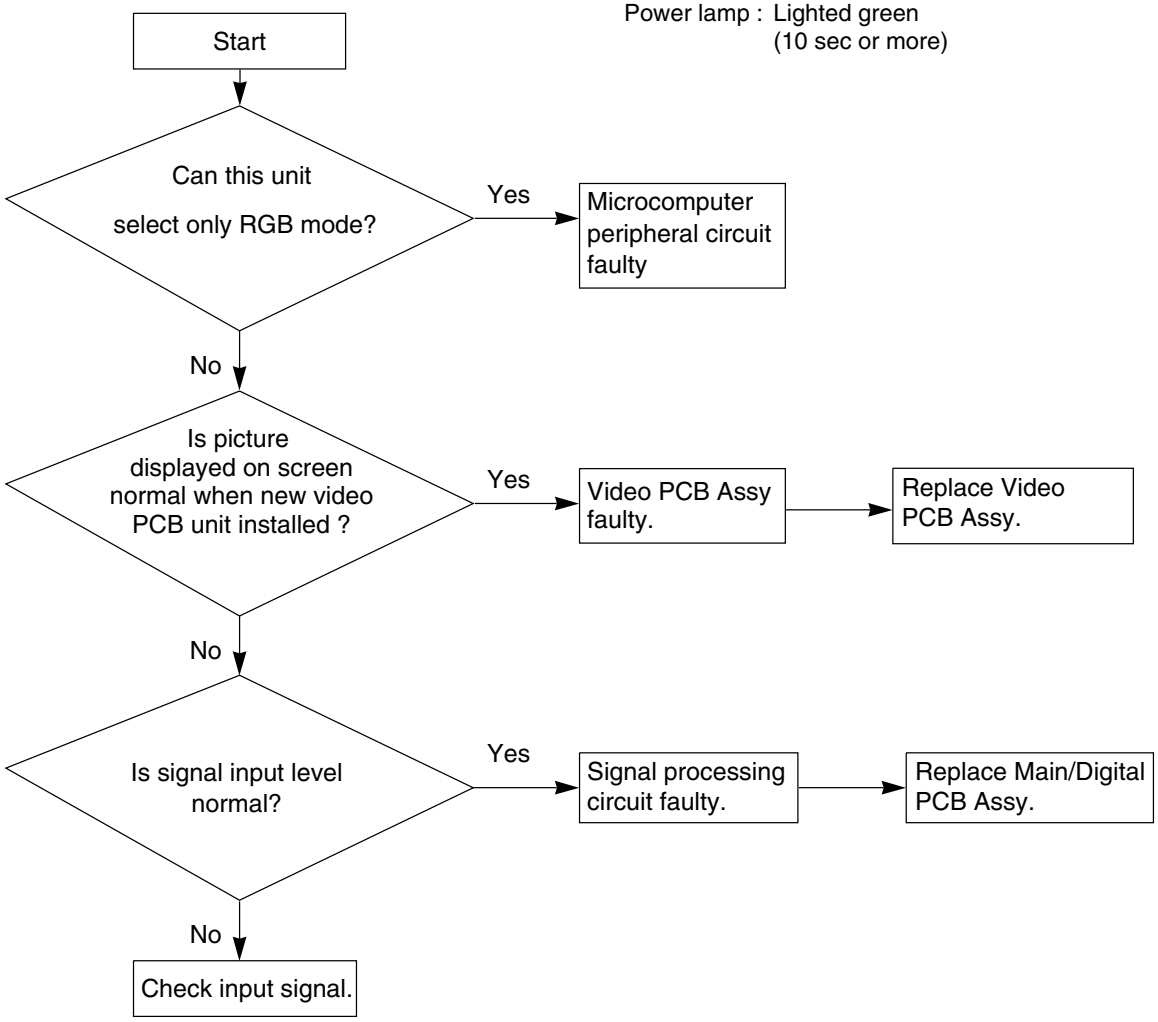



Check 4
OSD is not displayed
Power lamp : Lighted green.
(10 sec or more)
Start
Is picture displayed on-screen when signal input?
Yes
Signal processing circuit faulty.
Replace Main/Digital PCB Assy.
No
Is voltage at each connector on Main Power PCB Normal?
No
Power Supply circuit faulty.
Replace Main Power PCB.
Yes
Is picture displayed normally when PDP changed?
Yes
PDP panel faulty.
Replace PDP panel.
No
Signal processing circuit faulty.
Replace Main/Digital PCB Assy.

Check 5

Video 1/ Video 2/ Video 3 input signal are abnormal.

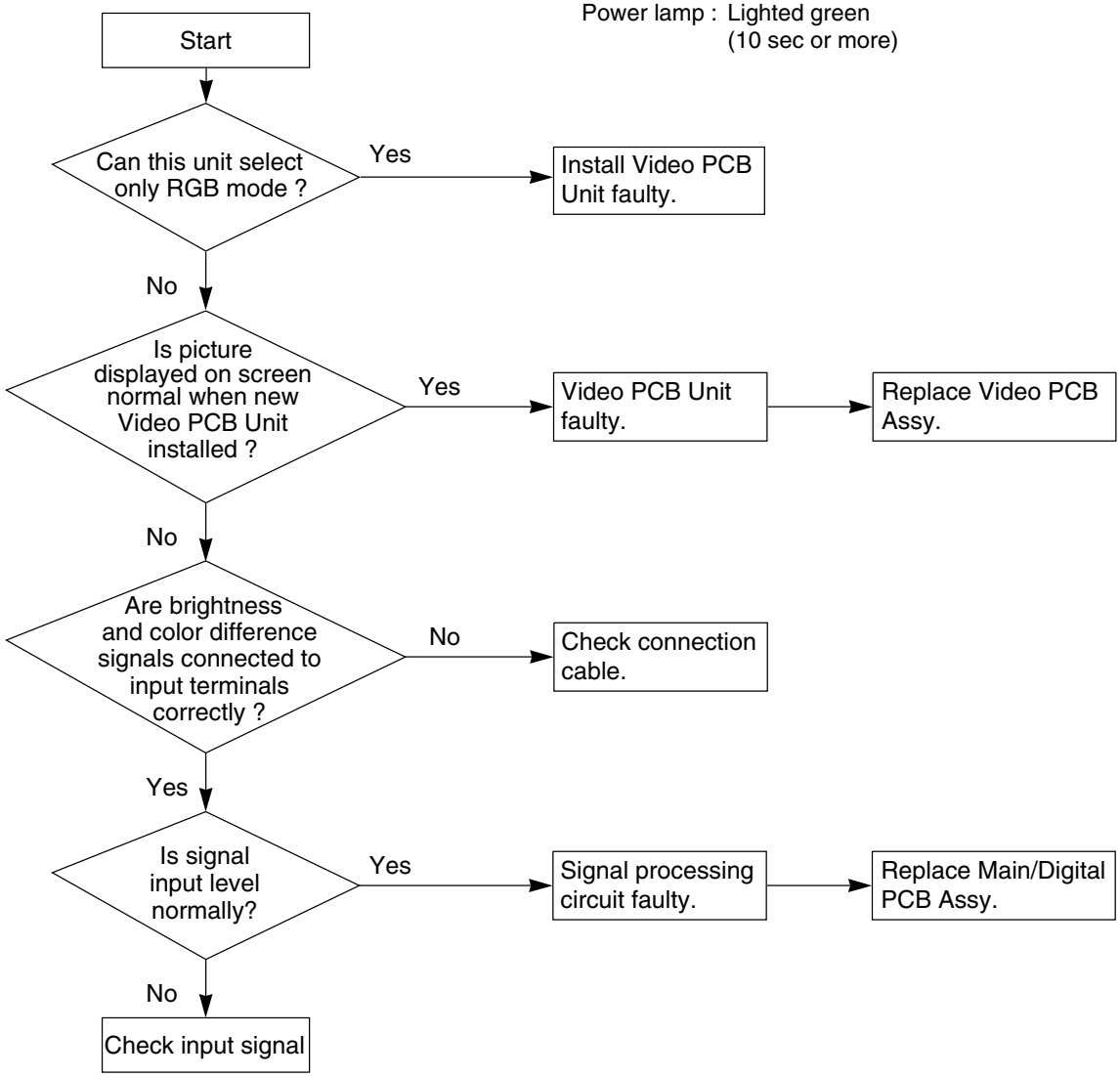
Power lamp : Lighted green
(10 sec or more)



Check 6

Video 4 are abnormal.

Power lamp : Lighted green
(10 sec or more)

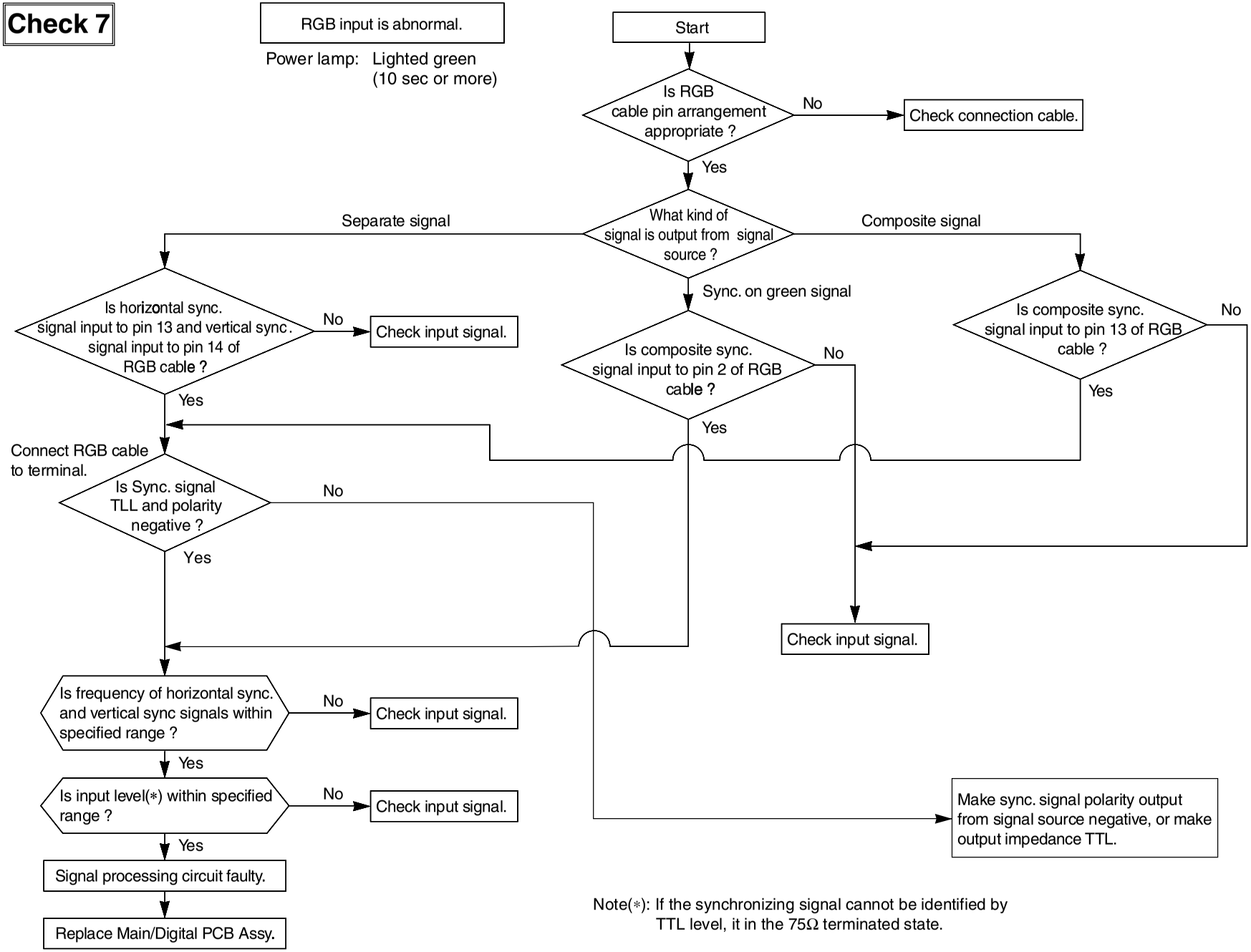


∗SYNC signals are added to the Y signal.

Check 7

RGB input is abnormal.

Power lamp: Lighted green
(10 sec or more)



Note(*): If the synchronizing signal cannot be identified by TTL level, it in the 75Ω terminated state.

VOLTAGE OF EACH CONNECTOR

1. How to measure the voltages on the Main Power Supply PCB in protect mode.

- Since a voltage is applied to the Main Power PCB heat sinks while the set is operating, do not touch the heat sinks.
- After the power cord plug was pulled out, do not pull out the connector on the Main Power PCB until the Green LED (D531: Discharge check LED) turns off.

1) Disconnect CN6, CN23, CN33, CN42 and CN52
2) • Connect pin 1 and pin 13 of CN352 through a 1/4W, 1kΩ resistor.
   • Connect pin 1 of CN352 and pin 5 of CN509 through a 1/4W, 1kΩ resistor.
   • CN502 shorted.
3) Press the power button.

2. On the Main Power Supply PCB. (M02FQ)

CN352			
No.	NAME	SPEC.	Ground
1	P5V	5.0V +/- 0.25V	5
3	+14V	14.0V +/- 0.7V	5
6	-8V	-8.0V +/- 0.4V	7

CN351			
No.	NAME	SPEC.	Ground
3	+2.5V	2.5V +/- 0.13V	2
7	+3.3V	3.3V +/- 0.17V	6
12	+6.5V	6.5V +/- 0.33V	11

CN33			
No.	NAME	SPEC.	Ground
1	Vcc 1	5.1V +/- 0.25V	2
9	Vs	82.5V +/- 1.5V	5

CN23			
No.	NAME	SPEC.	Ground
1	Va	60.0V +/- 1.3V	4

CN6			
No.	NAME	SPEC.	Ground
1	Vpri2	3.3V +/- 0.15V	3

VS AND VA ADJUSTMENT

When the Main Power Supply PCB and PDP panel are replaced, Vs and VA must be adjusted.

Preparation : Heat-run for 5 minutes with a white pattern in the wide mode.

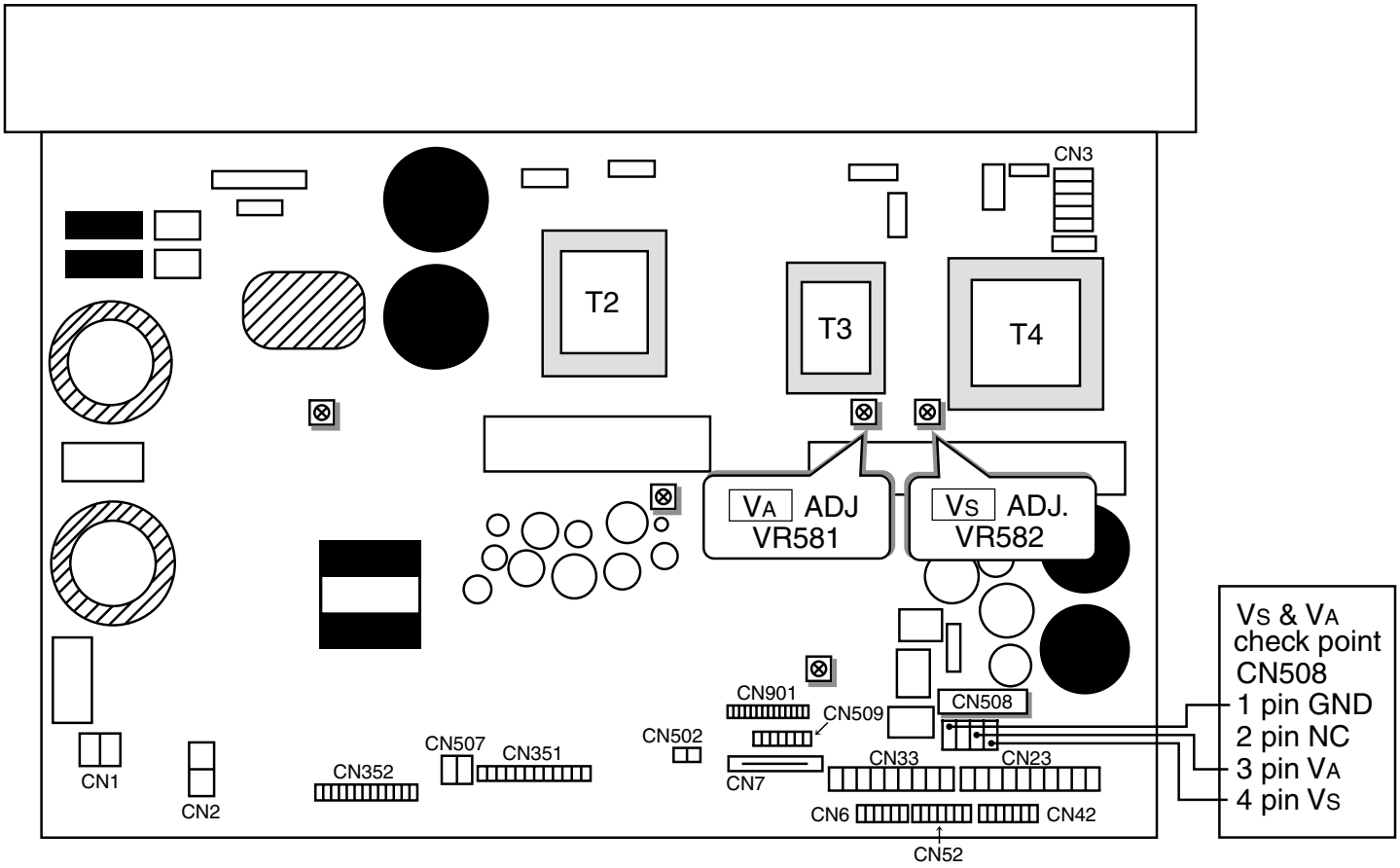
Adjustment : Adjust the VS and VA in the no-signal state.

Check points : Refer to the drawing shown below.

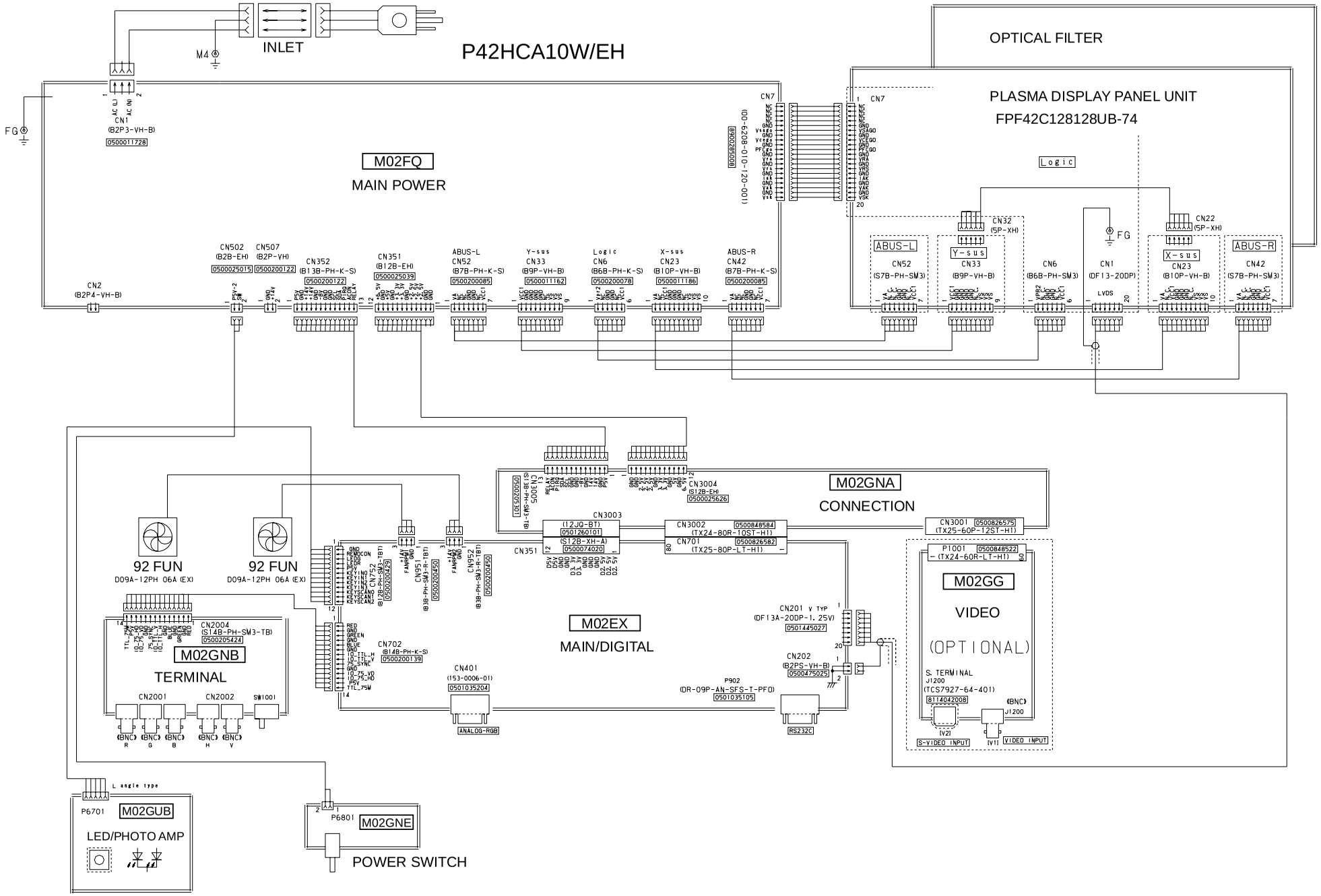
Adjustment points : Refer to the drawing shown below.

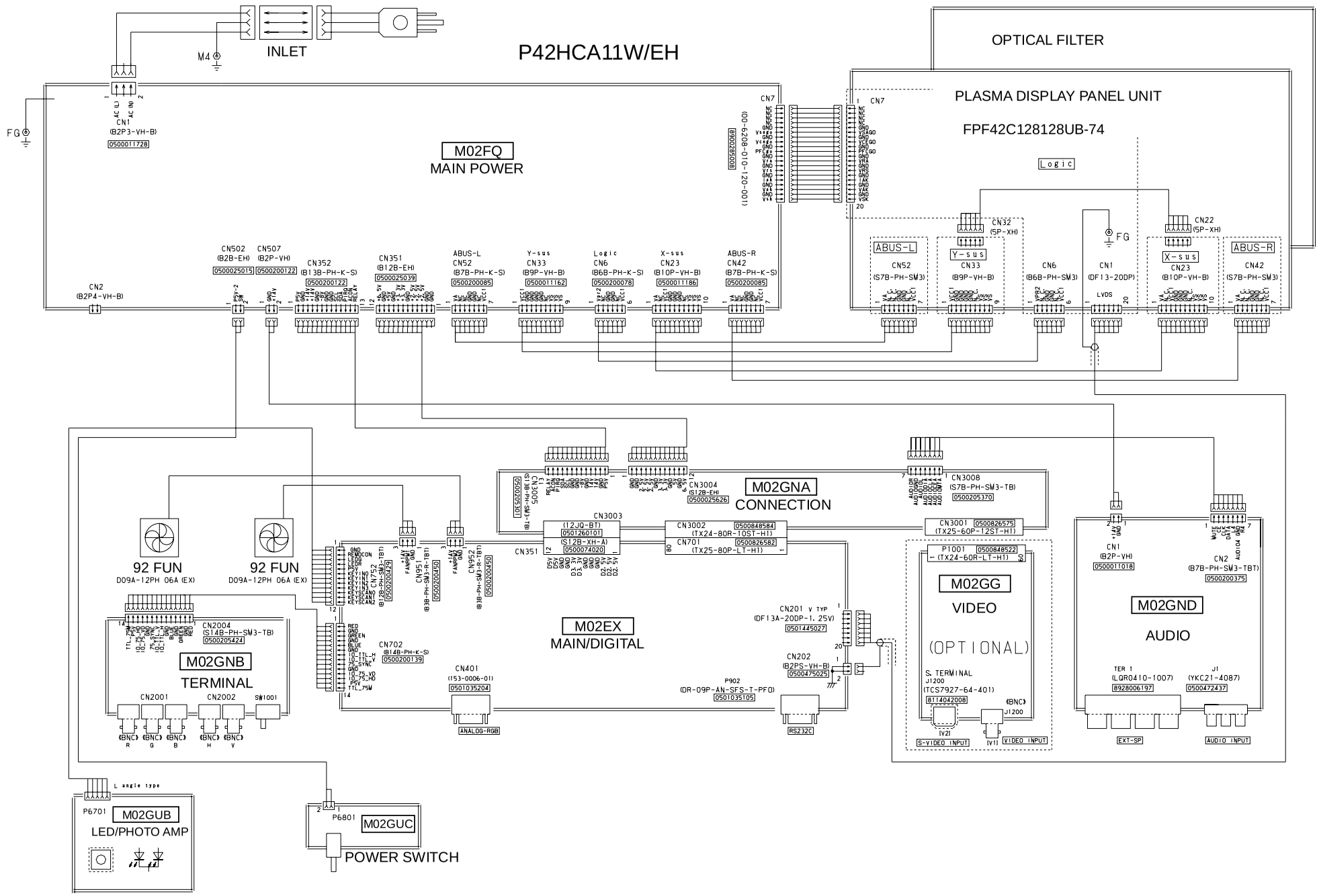
Adjustment value : Within +/- 0.1V of voltage indicated on the label of the PDP panel.

- MAIN POWER SUPPLY PCB (M02FQ-PCB) -



GENERAL CONNECTION DIAGRAM

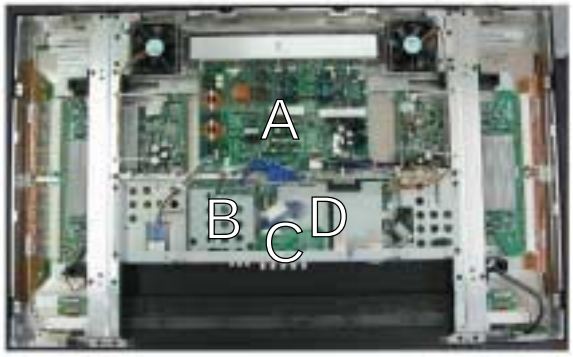



P42HCA11W/EH
INLET
M4
FG
CN1
(B2P3-VH-B)
0500011728
M02FQ
MAIN POWER
OPTICAL FILTER
PLASMA DISPLAY PANEL UNIT
FPF42C128128UB-74
CN7
(00-6208-010-120-001)
8968020309
Logic
CN2
(B2P4-VH-B)
CN502
(B2B-EH)
0500025015
CN507
(B2P-VH)
0500200122
CN352
(B13B-PH-K-S)
0500200122
CN351
(B12B-EH)
0500025039
ABUS-L
CN52
(B7B-PH-K-S)
0500200085
Y-sus
CN33
(B9P-VH-B)
0500011162
Logic
CN6
(B6B-PH-K-S)
0500200078
X-sus
CN23
(B10P-VH-B)
0500011186
ABUS-R
CN42
(B7B-PH-K-S)
0500200085
CN32
(5P-XH)
CN22
(5P-XH)
CN52
(S7B-PH-SM3)
CN33
(B9P-VH-B)
CN6
(B6B-PH-SM3)
CN1
(DF13-20DP)
LVDS
CN23
(B10P-VH-B)
CN42
(S7B-PH-SM3)
M02GNA
CONNECTION
CN3004
(S12B-EH)
0500025626
CN3005
(S13B-PH-SM3-TB)
0500205301
CN3008
(S7B-PH-SM3-TB)
0500205370
CN3003
(12JQ-BT)
0501260101
(S12B-XH-A)
0500074020
CN3002
0500848584
(TX24-80R-10ST-H1)
CN701
0500826582
(TX25-80P-LT-H1)
CN3001
0500826575
(TX25-60P-12ST-H1)
CN351
92 FUN
D09A-12PH 06A (EX)
92 FUN
D09A-12PH 06A (EX)
CN752
(B12B-PH-SM3-TB)
0500200429
CN951
(B3B-PH-SM3-R-TB)
0500200450
CN952
(B3B-PH-SM3-R-TB)
0500200450
M02EX
MAIN/DIGITAL
CN702
(B14B-PH-K-S)
0500200139
CN401
(153-0006-01)
0501035204
ANALOG-RGB
P902
(DR-09P-AN-SFS-T-PFO)
0501035105
RS232C
CN201 Y TYP
(DF13A-20DP-1.25V)
0501445027
CN202
(B2PS-VH-B)
0500475025
P1001
0500848522
(TX24-60R-LT-H1)
M02GG
VIDEO
(OPTIONAL)
S TERMINAL
J1200
(TCS7927-64-401)
8114042008
(BNC)
J1200
IV2
S-VIDEO INPUT
IV1
VIDEO INPUT
CN1
(B2P-VH)
0500011018
CN2
(B7B-PH-SM3-TBT)
0500200375
M02GND
AUDIO
TER 1
(LQR0410-1007)
8928006197
J1
(YKC21-4087)
0500472437
EXT-SP
AUDIO INPUT
CN2004
(S14B-PH-SM3-TB)
0500205424
M02GNB
TERMINAL
CN2001
CN2002
SW1001
(BNC)
R
(BNC)
G
(BNC)
B
(BNC)
H
(BNC)
V
L angle type
P6701
M02GUB
LED/PHOTO AMP
P6801
M02GUC
POWER SWITCH

DISASSEMBLY

1. Removing the Rear Case

1. Remove the 25 circled screws and remove the Rear Case.



* Layout of Main PCB.

A: Main Power PCB

B: Audio PCB

C: I/ O PCB

D: Main/ Digital PCB

2. Remoing the Main Power PCB

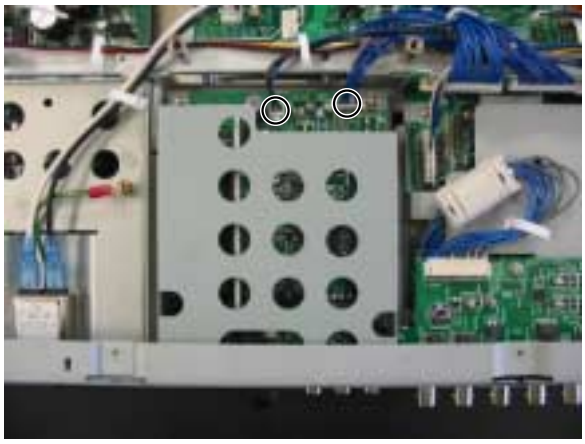
1. Remove the Rear Case.
2. Take away the insulator.

3. Disconnect the circled connector.

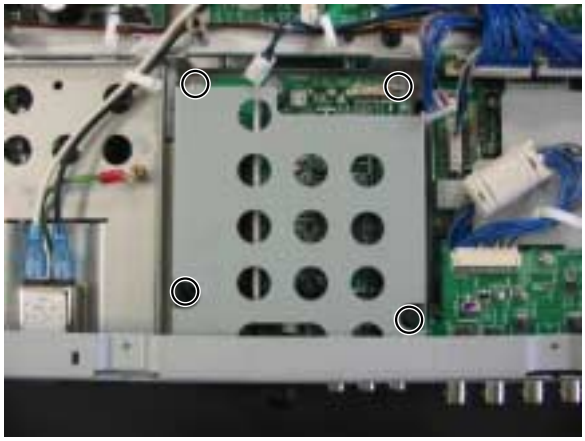
4. Remove the 2 screws and Main Power PCB.

* View after Main Power PCB was removed.

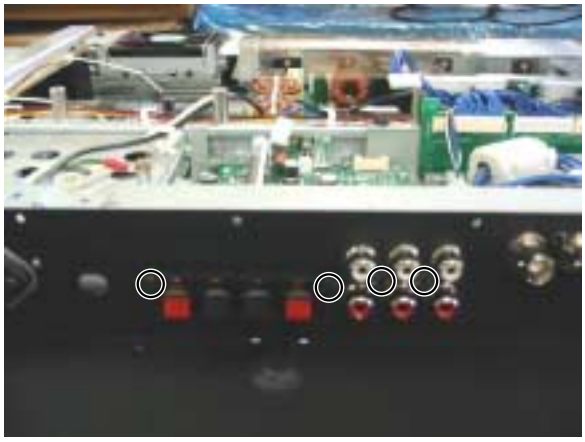
3. Removing the Audio PCB



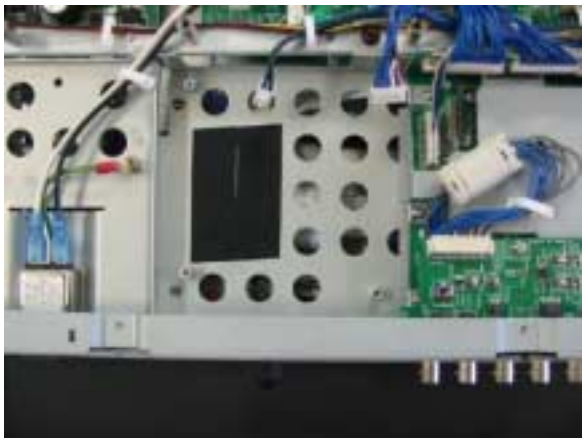
1. Remove the Rear Case and disconnect the circled connectors.



2. Remove the circled 4 screws and the shield bracket.



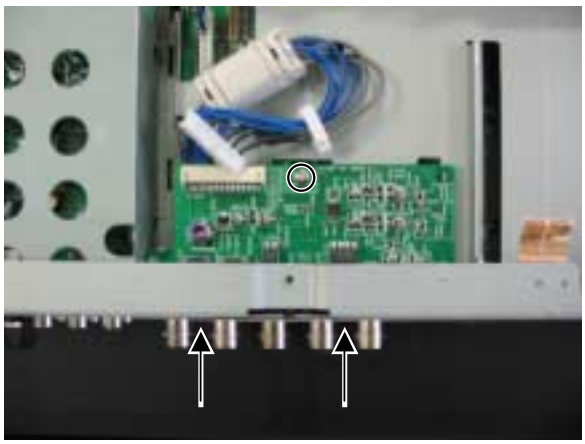
3. Remove the circled 4 screws and Audio PCB.



* View after Audio PCB was removed.

4. Removing the I/ O PCB

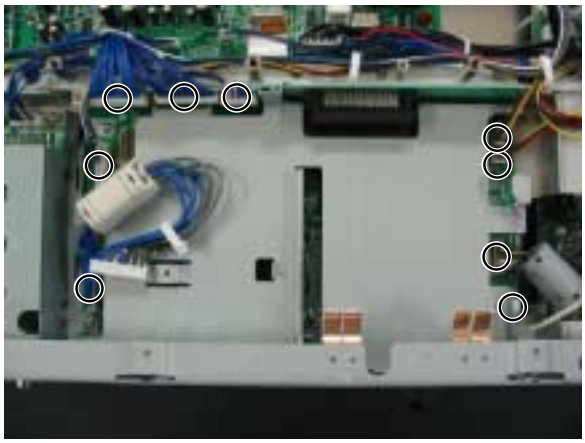
1. Remove the Rear Case and disconnect the circled connector.



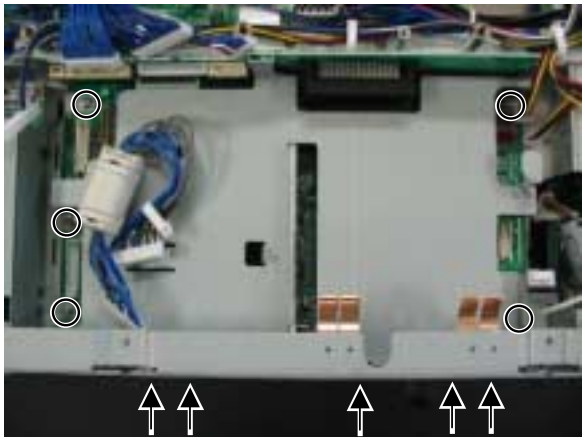
2. Remove the 3 screws and I/ O PCB

* View after I/ O PCB was removed.

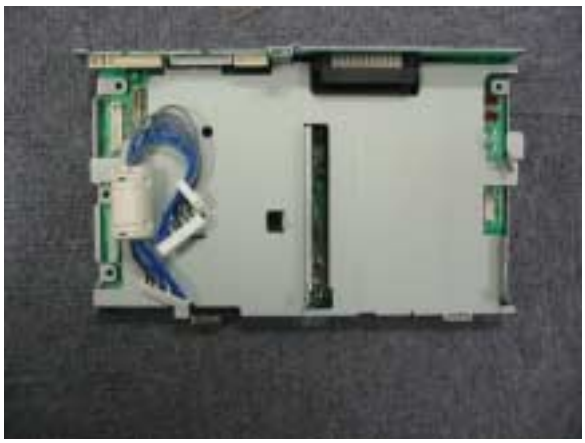
5. Removing the Main Digital PCB (1 of 2)



1. Remove the Rear Case, I/ O PCB.
   (To remove the I/ O PCB, refer to
   the Page 30)
2. Disconnect the circled connectors.



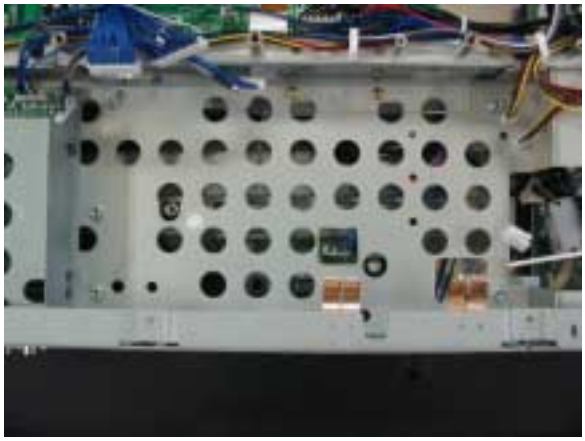
3. Remove the 10 circled screws and
   Main Digital Unit.



4. Remove the shield bracket.

5. Disconnect the connection PCB.

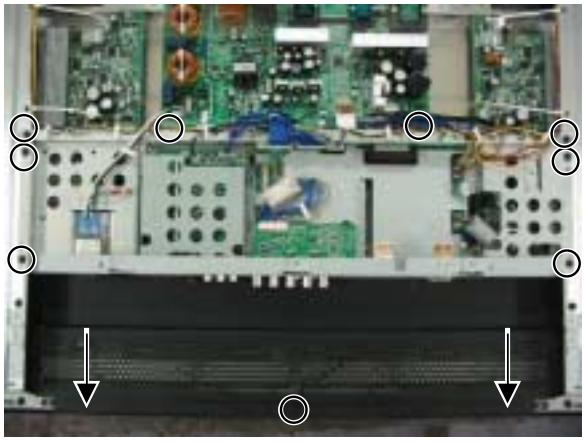
5. Removing the Main Digital PCB (2 of 2)



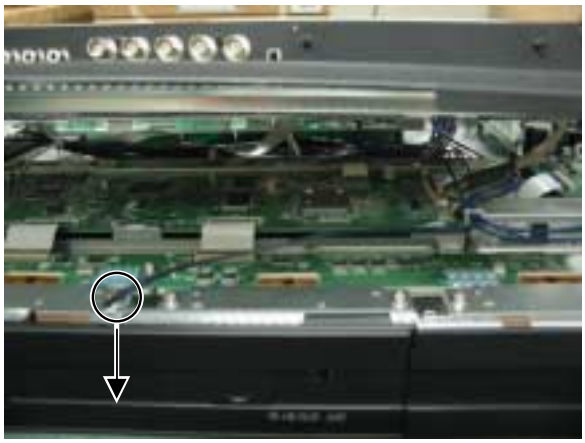
* View after Main Digital PCB was removed.

6. Removing the PDP Unit (1 of 4)

1. Remove the Rear Case.
2. Disconnect the circled connector and the wire clamper.



3. Remove the 9 circled screws and lift the portions in arrows.



4. Pull out all the wires shown in the circle toward the direction of arrow.

5. Remove the 8 circled screws.

6. Removing the PDP Unit (2 of 4)

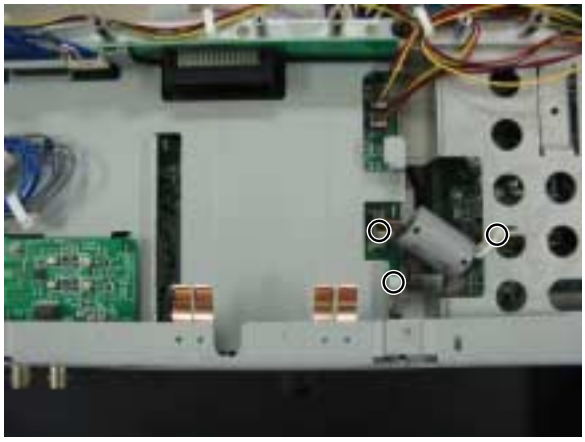
6. Remove the Base Frame from the Front Case together with the panel and PCBs.

* Note: When assembling, always attach the upper hook first as shown in the photo. Do not scratch the flexible wire at the bottom.

* View after removal of the Base Frame from the Front Case.

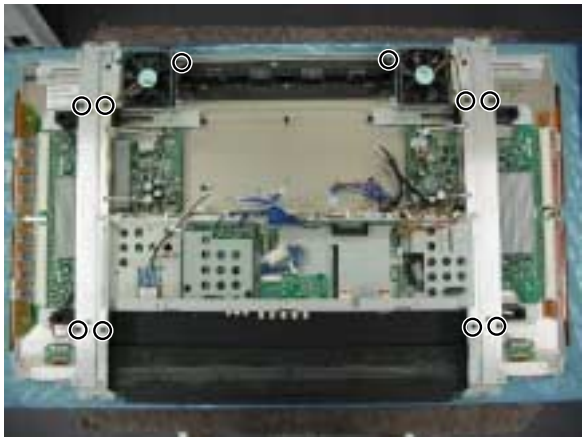
* View after the Front Case Panel Unit and PCBs were removed.

7. Remove the Main Power PCB.
(To remove the Main Power PCB, refer to the Page 28)



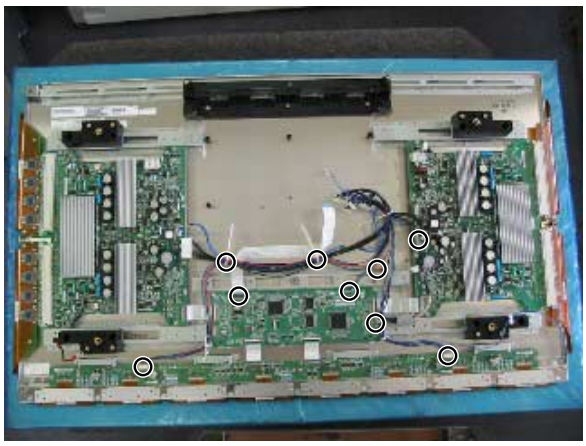
8. Disconnect the circled connector and the wire clamper.

6. Removing the PDP Unit (3 of 4)

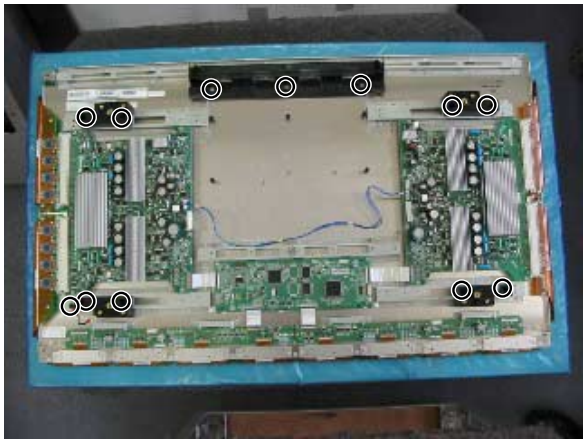


9. Remove the 10 circled screws and lift up the Base Frame.

10. Remove the Base Frame together with wires and other parts.

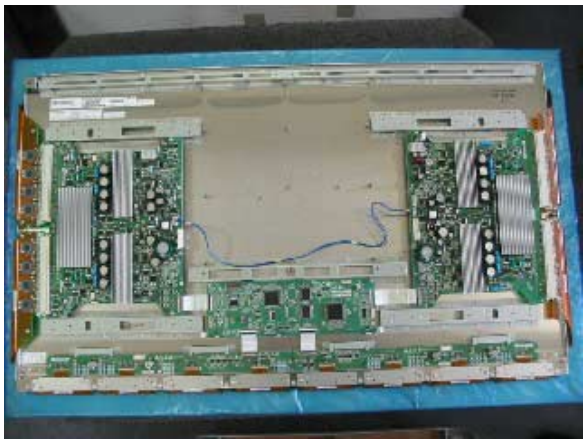


11. Disconnect the circled connectors, screws and wire clampers.



12. Remove the 12 circled screws.

6. Removing the PDP Unit (4 of 4)



* View after only the PDP Unit was removed.
* Replace the removed parts back in the correct places when the PDP Unit is replaced.

7. Removing the Bezel Front

1. Remove the 2 circled Cover Stands and remove the screw in the holes.

2. Lift the bottom of the Bezel Front.

3. Lift the Bezel Front upward to remove it.
   (The top of the Bezel Front is hooked.)

* View after Bezel Front was removed.

8. Removing the Optical Filter

1. Remove the Bezel Front.
   (To remove the Bezel Front, refer to the Page 37)

2. Remove the 14 screws on the Filter Holders at each side.

3. Remove by sliding the Filter Holder in the arrow directions.

4. Remove the Optical Filter.

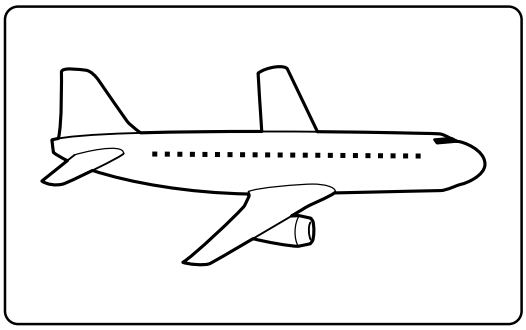
PARTS LIST

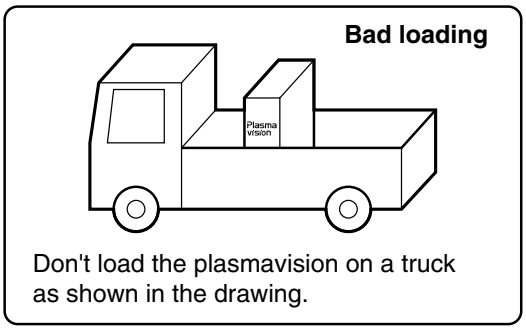
Ref.no.	Description	P42HCA10WH	P42HCA10EH	P42HCA11WH	P42HCA11EH
Cabinet	Bezel Front	8112000000	⇦	⇦	⇦
	Case Rear	8115603000	⇦	⇦	⇦
	Cover Stand	8108298008	⇦	⇦	⇦
	Holder Filter L/R	8110619006	⇦	⇦	⇦
	Holder Filter T/B	8110614001	⇦	⇦	⇦
Electric	Fan Motor	8900298008	⇦	⇦	⇦
	Optical Filter	8115640012	⇦	⇦	⇦
	Audio PCB	----------	----------	8115269008	⇦
	Connection PCB	8115273005	⇦	⇦	⇦
	I/O PCB Assy	8115275009	⇦	⇦	⇦
	LED/PHOTO PCB	8116368007	⇦	⇦	⇦
	Main Digital PCB	8116398004	8116393009	8116394006	8116396000
	Main Power PCB	8115830000	⇦	⇦	⇦
	PDP Unit	S141011609	⇦	⇦	⇦
	Power Cord UL.CSA	8111725003	----------	8111725003	----------
	VDE	----------	8111726000	----------	8111726000
	Remote Control Unit	8108442005	⇦	⇦	⇦
Packing	Carton Top	8115319000	⇦	⇦	⇦
	Carton Bottom	8114547008	⇦	⇦	⇦
	Packing Joint-D	8108655009	⇦	⇦	⇦
	Packing Pad-Top	8114551005	⇦	⇦	⇦
	Packing Pad-Bottom	8114550008	⇦	⇦	⇦
	Carton Accessory	8111799004	⇦	⇦	⇦
	Sheet Protect	8111634008	⇦	⇦	⇦

⇦ : Same as left

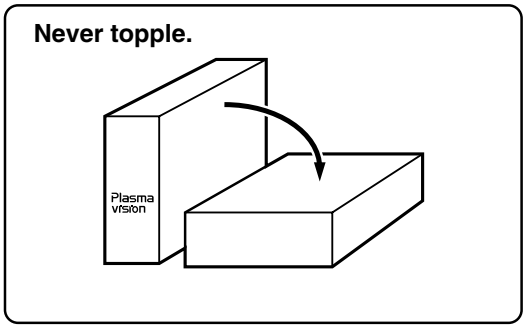
TRANSPORTATION AND HANDLING RESTRICTIONS

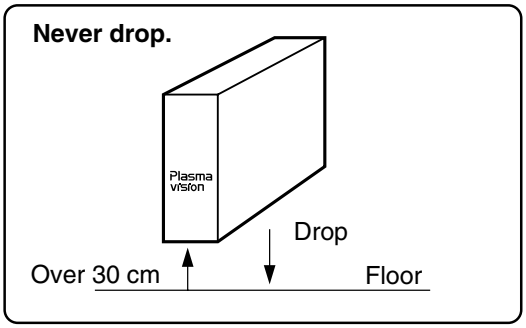
Transportation

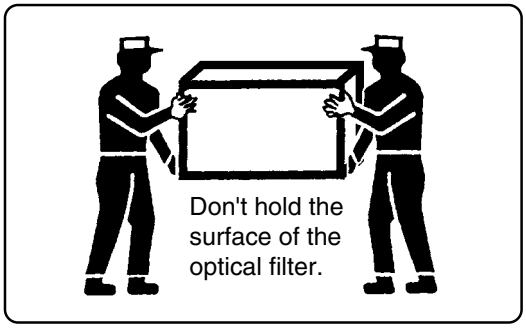


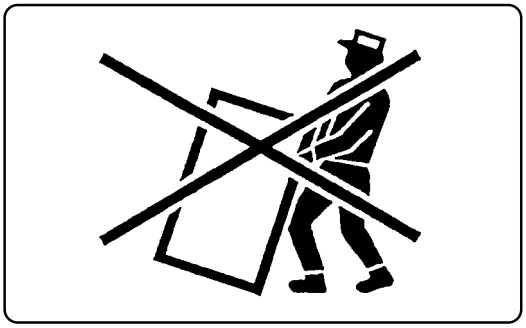


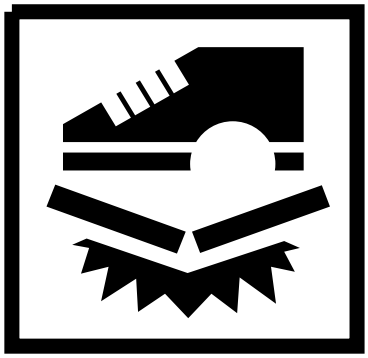
Handling

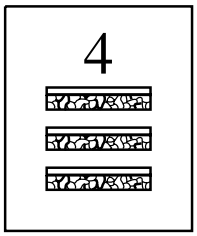




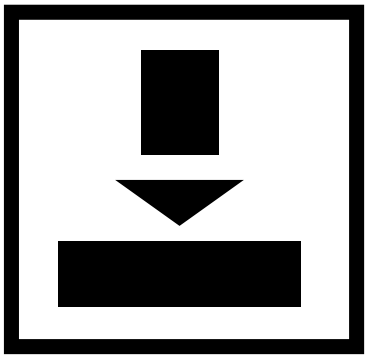






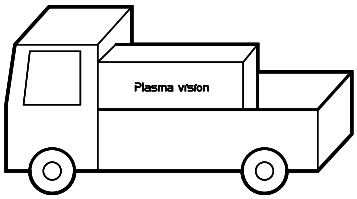


Don't stack the plasmavision over three units high.

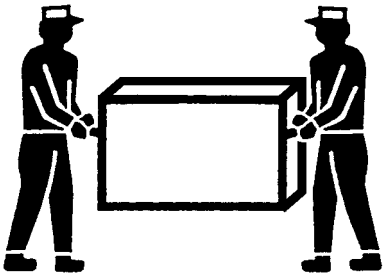


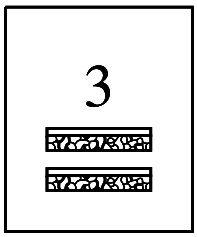
Example of good transportation and handling

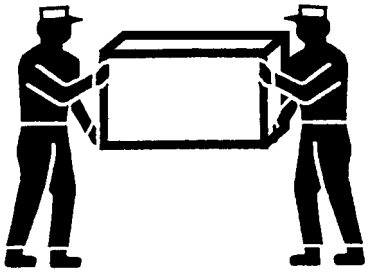
Good loading



Load the plasmavision as shown above.







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GLOBAL SUPPORT DIVISION
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