AKA PLASMA MULTIMEDIA MONITOR SERVICE MANUAL

MODEL NO. : PDP4295ED PDP4249G PDV42S10

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IMPORTANT INFORMATION



WARNING: 1. This is a Class A and Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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

IMPORTANT



This lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



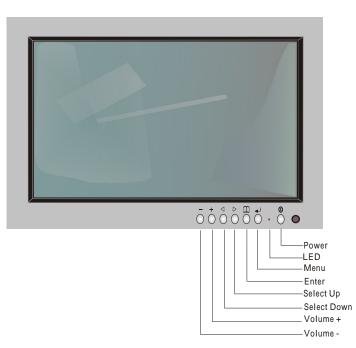
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

GENERAL INFORMATION

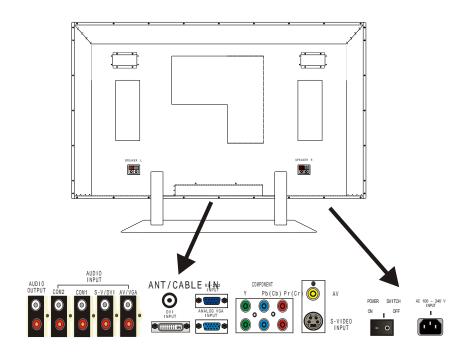
IMPORTANT:

When the set is switched on , do not shift or move the set around. Sometimes it may develop an unevenness in colour in some parts of the screen. This can be eliminated by switching off the set with the main power button (rear site) and wait for 10 minutes before switching on again. If the situation remains, call for Service.

Front View



Rear View



SAFETY PRECAUTIONS

Please read the following direction carefully before using this machine.

- . Read each direction carefully, and retain for future reference.
- . Please keep the manual well.
- . Please follow the information to operate this machine.
- . Clean the machine with a slightly damp soft cloth. Do not use spray detergent and abrasive solvent. It can damage the machine screen coating layer.
- . Place the machine on a solid base to avoid dropping and danger.
- . For good ventilation of the machine, please do not place the machine on surfaces such as bed, sofa, or rug.
- . Before operating the machine, make sure that the operating voltage of your machine is identical with that of your local power supply, if there is any unclear, please contact with sales dealer.
- . Use only the accessory power cord designed for this product to prevent shock.
- . Do not put anything under the power cord to avoid tramping.
- . If using the same power source with other equipments, please make sure the total current does not over 15A.
- . Never attempt to repair a defection of the machine by yourself. Always consult a skilled machine service personnel.
- . When the following situations happen, please contact qualified engineer.
- Å. The power cord or the power socket has damages.
- B. If any liquid or solid object fall into the machine through the ventilation holes.
- C. Expose the machine to rain or excessive moisture.
- D. The function does not follow the user manual.
- E. The machine has ever been dropped or the glass has been broken.
- F. The function of machine has clear changes.
- . The plasma panel has been built using extremely precise and sophisticated technologies; More than 99.99% of its pixels are effective. A minute number of pixels are missing or constantly lit.
- . Do not display the same picture(pattem)for a long period of time (Don't exceed 20 min.). This may cause images remain.
- . No further notice will be provided if the specification and design subjects have been changed.
- . To release the battery of remote controller after long time replacement (over 1 month) and to avoid making destruction of remote controller by liquid.

.Whan none operation the product storagr is suggested not .exced max of 6 months.If it is the exceed the suggested .storage period, the product should be activated for 24 hrs. .To ensure the quality of the product.

SPECIFICATION

(1)input signal : S-Video, composite, Component, Analog RGB, DVI, NTSC RF (2)video signal : 0.7Vp-p

(3)scan frequency : Analog RGB auto-sync H from 30 to 80KHz

V from 60 to 85Hz

DVI auto-sync H from 30 to 80KHz

V from 60 to 85Hz

Component: 480i、480P、576i、576P、720P、1080i

Composite : Video sync

S-Video : Y-C separate sync

TV:NTSC 60Hz

(4)up data terminal : RS-232 DB-9 PIN

(5)Power supply: AC100-240 Volts universal

(6)Power consumption: 330W (Full White Pattern)

(8)Signal cable : 15PIN D-SUB、 DVI-D、 S-Video、 RCA Jack、 Speaker Jack、 AV Shielded Video cable

(9)OSD controls:

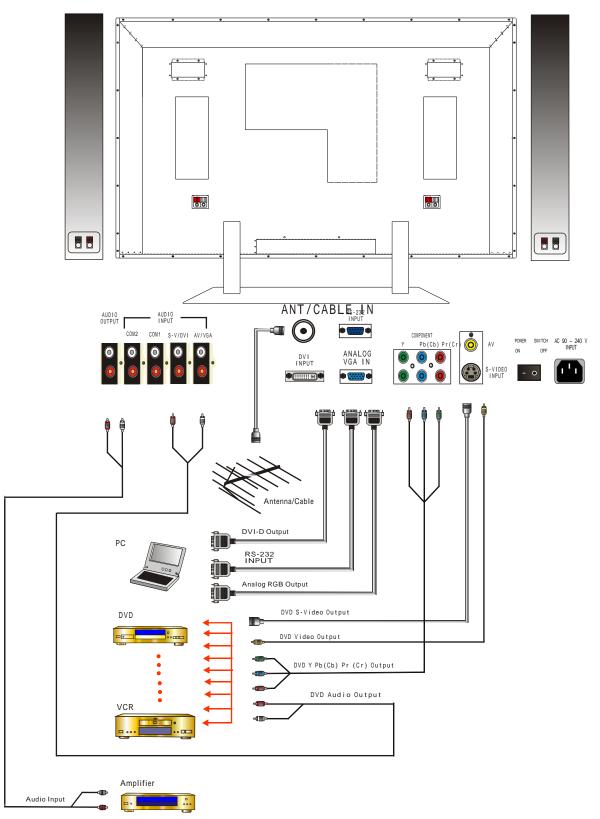
Video a section :

<1>Picture: H/V Position, Brightness, Contrast, Sharpness, Color, Tint, Frequency, Phase, Auto Image
<2>Advanced: Gamma, Color Temperature, Color Management.
<3>Source: Analog RGB, DVI, Component1, Component2, S-Video, Video, TV
<4>Function: Scaling, Zoom, White Pattern, Close Caption, [PIP]Source, [PIP]Size, [PIP]H/V-Position
<5>Utility: Language, Video Standard, DPMS, [OSD]H/V-Position, [OSD]Time Out, Picture Scrolling, Load Factory
<6>TV: Tuner Select, Channel, MTS, Channel Scan, V-chip

Sound a section :

Volume, Treble, Bass, 4 steps BBE Selects, SRS virtual Surround, MTS STEREO Decoder

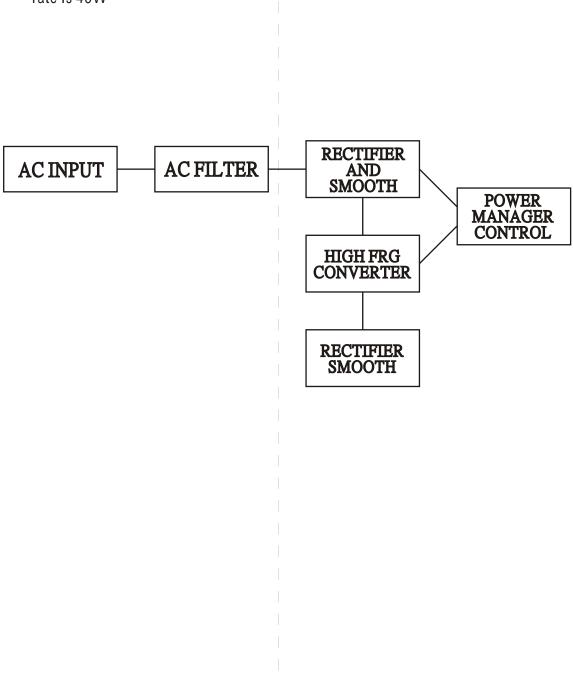
PERIPHERAL EQUIPMENT CONNECTING



CIRCUIT DESCRIPTION

1. DC POWER SUPPLY

This is the DC power supply inside the PDP, in which Cn1 connected with alternating current (AC) through inductance filter (L1), rectification bridge (BD1) IC, transformer (T1), D3, D4, to CN2 output with 5V and 12V direct current. The range of the AC output is from 90V to 264V and frequency is from 50Hz to 60Hz. The largest detrition rate is 40W



2. VIDEO DISPLAY BOARD

This is the signal inside the PDP and audio device disposition.

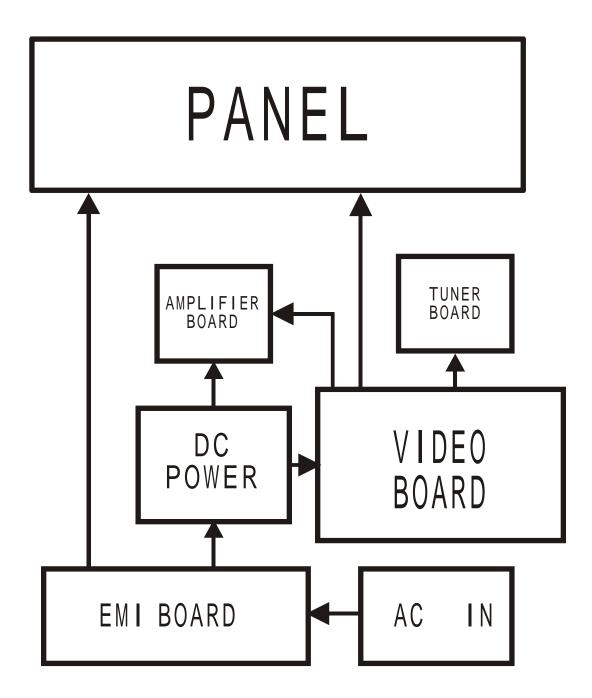
- It can receive composite signal including R.G.B.H.V. contrast signal, DVI digital signal, AV color distinction signal and S-Video.....etc.
 - R.G.B.H.V. & Y Pb Pr : The signal is input from (15 PIN) J1 & J1 to U6 to perform contrast signal ,then transform to digital signal and enter to U29, the signal is passer to U33 for the output of visual signal.
 - DVI : Digital signal is input from P1 the managed by U6 and passed to U29 ,the signal is passed to U33 for the output of visual signal output.
 - AV & TV : AV& TV signal enters from J12 & JP18 to U46 to perform signal, then transform to U47 to decode perform signal, then transform to U49 to deinterlace perform signal and enter to U29, the signal passed to U33 for the output of visual signal.
 - S-Video : S-Video signal input from J12 to U47 to decode perform signal ,then transform to U49 to deinterlace preform signal and enter to U29 , the signal passed to U33 for the output of visual signal.

to U5 for visual production and after deposition, it will pass to U7 for signal compensation and to U9 for visual signal deposition output.

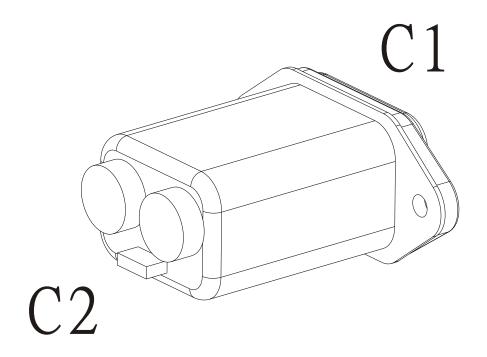
- 2) Audio is input from J3, J8 and from U62 to perform pre-production. Then, the audio signal is passed to U61 SRS process for the signal output by J4 and J9.
- 3) When audio signal the J4 passed to Amplify for the final output.

CHAPTER BLOCK DIAGRAM

1. BLOCK DIAGRAM

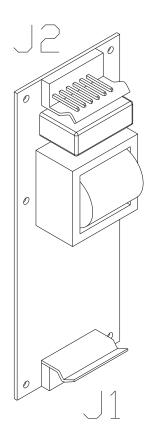


2. AC FILTER



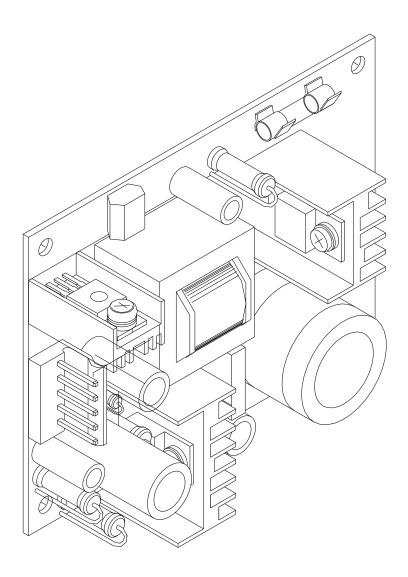
1. AC INPUT TO C1 2. C2 TO EMI BOARD J1

3. EMI BOARD



1. AC FILTER C2 TO J1 2. J2 TO PANEL & DC POWER CN1

4. DC POWER BOARD

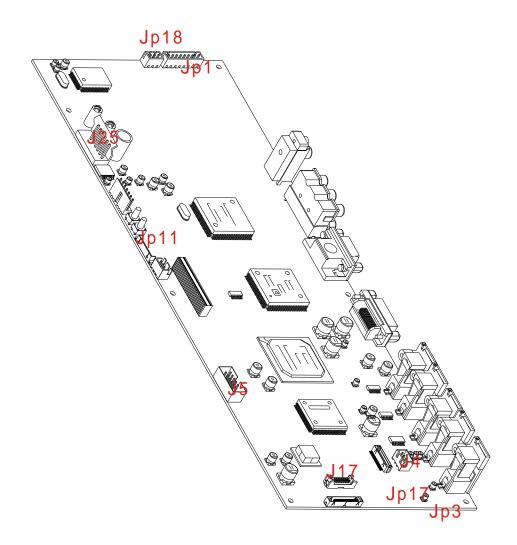


CN1



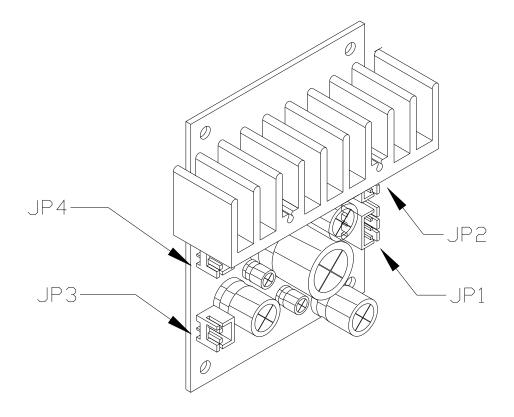
1. EMI FILTER J2 TO CN1 2: CN2 TO MONITOR BOARD

5. VIDEO DISPLAY BOARD



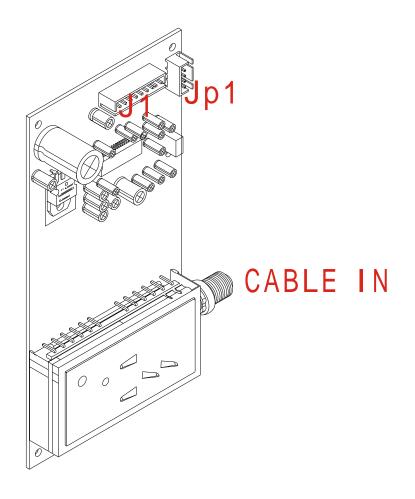
1.J17 TO PANEL 2.JP17, JP3 TO TUNER BOARD 3.J25 TO DC POWER 4.JP11 TO KEYPAD 5.J4 TO AMPLIFIER BOARD 6.J5 TO RS232 CONNECTOR

6. AMPLIFIER BOARD



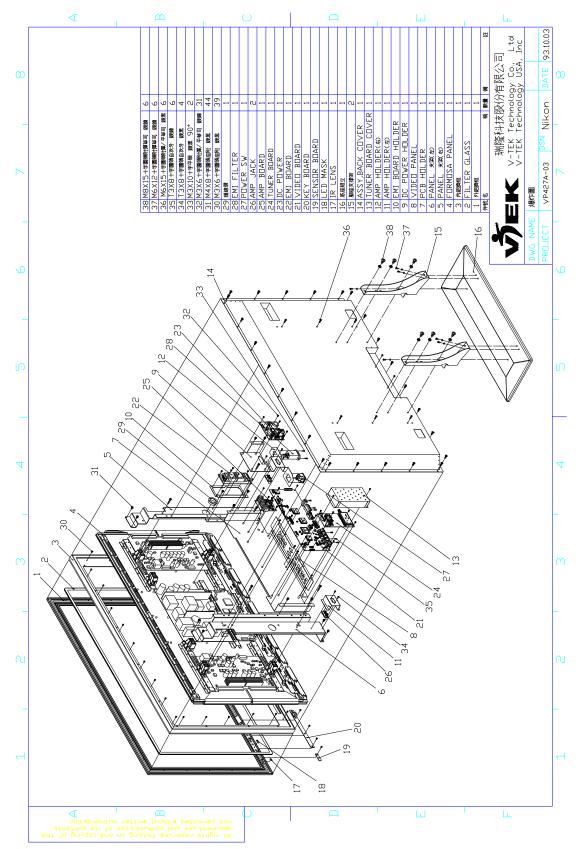
VIDEO BOARD J4 TO JP1 DC POWER BOARD CN2 TO JP2 JP3 TO RIGHT SPEAKER JACK JP4 TO LEFT SPEAKER JACK

7. TUNER BOARD



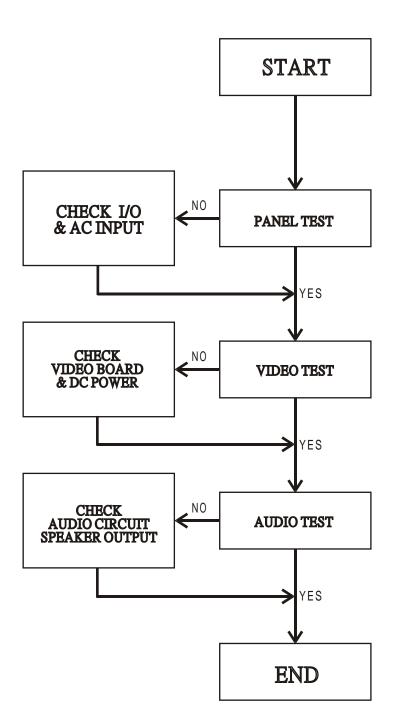
- VIDEO BOARD JP17 TO JP1
 VIDEO BOARD JP3 TO J1
 CABLE TO CABLE INPUT

8. ASSEMBLY DRAWING

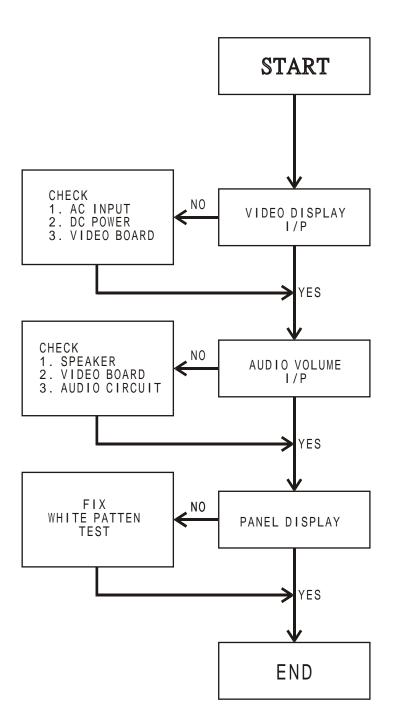


TROUBLE SHOOTING FLOW CHART

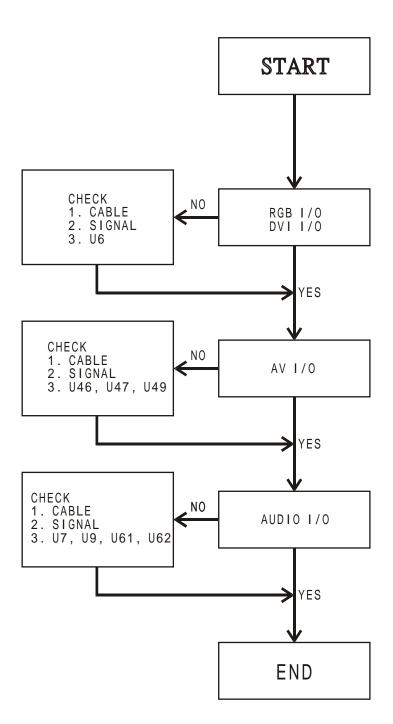
1. ASSEMBLY CHART



2. SET TEST CHART



3. VIDEO DISPLAY CHART



TROUBLE SHOOTING FLOW CHART

In the even of problems with the display, check the following explanations before contacting your dealer for servicing.

Problem	Action
Power does not turn ON.	Check whether the power plug is securely inserted into the receptacle.
Remote control does not function properly.	Check for incorrect battery orientation. Check for dead batteries. Check for distance from the display. Check whether you are pointing the remote control transmitter properly at the display's receiver. Check for any obstacle between the remote control and display.
The display makes a snapping sound.	This sound is produced when the cabinet expands or contract due to variations in temperature. This sound does not indicated that the display has a problem.
There are spots on the screen.	Check whether your AV equipment is affected by interference from automobiles, trains, high-voltage transmission lines, neon signs or other potential sources of interference.
Degraded colour/tints.	Check whether all picture adjustment have been properly made.
Improper screen position/size	Check whether screen position and size have been properly adjusted.
If "Out of range" appears, the display is receiving a signal whose picture or signal cannot be reproduced by the display.	Input proper signals. Make sure that the vertical frequency of the input signal is 85 Hz or less for SVGA, 75 Hz or less for XVGA / SXGA, 60 Hz or less for UXGA.
The screen turns to black and white.	Input proper signals. Make sure that the vertical frequency of the input signal is 85 Hz or less for SVGA, 75 Hz or less for XVGA / SXGA, 60 Hz or less for UXGA.