

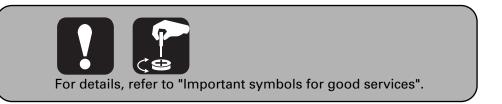




PD-4265 PD-5065

#### **CAUTION:**

Before servicing this chassis, it is important that the service person read the "SAFETY INFORMATION" section in this manual.



# SAFETY INFORMATION



This service manual is intended for qualified service technicians; it is not meant for the casual doit-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

#### WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

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(FOR CANADIAN MODEL ONLY)

Fuse symbols — (fast operating fuse) and/or — (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

#### **REMARQUE**

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible - (fusible de type rapide) et/ou - (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

#### SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed:

- 1. When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
- When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistorcapacitor, etc.
- When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
- 4. Always use the manufacture's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
- 5. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and service technician.

- 6. Perform the following precautions against unwanted radiation and rise in internal temperature.
- Always return the internal wiring to the original styling.
- Attach parts (Gascket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.
- 7. Perform the following precautions for the PDP panel.
- When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
- Make sure that the panel vent does not break. (Check that the cover is attached.)
- Handle the FPC connected to the panel carefully.
   Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
- 8. Pay attention to the following.
- When the front case is removed, infrared ray is radiated and may disturb reception of the remote control unit.
- Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

#### **Insulation Resistance Check**

With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. (Case of PD-5065/4265, AC power is always on.)

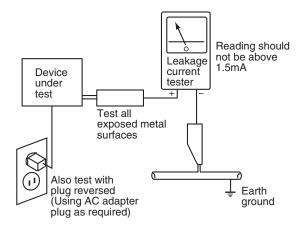
Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.). The resistance shuld be greater than  $10M\Omega$ .

#### **Leakage Current Hot Check**

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, etc.). Any current measured must not exceed 1.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

#### PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a  $\triangle$  on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

PD-5065

#### SAFETY SERVICE

#### ■ Safety cautions

The matters to be observed without fail are explained below. These matters are indispensable for the preventi on of an accident during the maintenance servicing, the [security of products] after the completi on of servicing work, and the [prevention of the repeated occurrence of similar fault.]

(1) The degree of danger and material damage, caused as a result of wrong use by disregarding the contents of the display" is distinguished and explained in the table below.



WARNING

If this display is disregarded and equipment is handled wrongly, this can be a cause of physical injury and a fire, thus leading a person to death or serious injury.



**CAUTION** 

If this display is disregarded and equipment is handled wrongly, this may lead to personal injury or material damage.

(2) Kinds of the matters to be observed are classified and explained in the icons shown below.



This icon indicates a dangerous place where an electric shock is anticipated.



This icon indicates the contents of "caution" that must be borne in mind, without fail.



This icon indicates the contents of "caution" that must be practiced, without fail.



WARNING

Observe the caution matter, without fail.



• In the place where a particular caution is needed during maintenance servicing, such a caution note is displayed with a label or a stamp that is given to the cabinet, chassis, PWB, etc. These caution notes and also the caution matters of in the instruction manuals, etc., must be observed, without fail.

· Be careful of an electric shock or a burn.



• The PDP module involves the sections where high voltage and high temperature are prevalent. When equipment is energized, therefore, use working gloves in order to prevent an electric shock and a burn. At the time of transportation, disassembly, reassembly, and the replacement of parts, such a servicing job must be done after pulling out all the connector cables that have been connected with external equipment.

• Modification of equipment is absolutely prohibited. Use the specified parts at all times.



If any modification is performed, the validity of the manufacturer's warranty is lost at that moment. The personnel who did this
modification is responsible for the physical injury or the like, if it should occur as a result of the modification. The parts used are
given the safety-based characteristics, such as non-flammability or sufficient

Danger of explosion.



• The lithium battery will give rise to explosion if its polarity is wrongly treated.



#### Observe the caution matter, without fail



• The caution matters of given in the delivery specifications, etc., must be observed, without fail.

Do not give shocks and vibration.



• The panel surface (display plane) of the PDP module is made of glass. If any shocks or vibration is applied, it may be broken and the scattered glass chips will be a cause of injury

#### Do not put anything.



• Do not put anything on the PDP module. Otherwise, this can be a cause of injury as a result of falling down or dropping caused by imbalance.

#### Transportation must be done by enough personnel.



• The PDP module is heavy. In the case of transportation, unpacking, or packing, more than two persons should do it by supporting the top and the bottom of the product.

#### ■ Miscellaneous caution matters

- (1) This PDP module uses highly integrated semiconductor parts. Since these parts are fragile to electrostatic charges, earth bands should be used for handling. The product should be handled where measures have been taken against electrostatic charges.
- (2) For this product, the PDP modules and the PWBs are repaired by replacement in a unit. Therefore, the units of the PWBs must not be repaired or disassembled. Otherwise, the validity of warranty will be lost.
- (3) If this PDP module is used for the fixed character display or the like as in the case of a character display board, a phenomenon of burning (not warranted) will occur. Burning is a phenomenon that the unevenness in the brightness is caused in the display. In such a case, the brightness in the section where the integrated display time is longer becomes lower than the brightness in another section where the integrated display time is shorter. This phenomenon is in proportion to the integrated display time and the brightness. For this reason, to relieve this difficulty during servicing, do not use any still picture, but use a display by motion pictures of a video or the like. In addition, use "STANDARD" for the screen mode and avoid using any display by "NARROW", or "TRUE", to etc. If it is necessary to use only a still picture for unavoidable reasons, use a burning relief function such as "PLE LOCK", "ORBITER", etc.
- (4) When a PDP module is operated after a long time of storage, it may encounter a difficulty like a failure in displaying a screen or unstability according to the condition of storage. In such a case, the PDP module should be incorporated in the product and aging treatment should be carried out for about two hours (all screen display).
- (5) Sulfides will deteriorate the PDP module and this is a cause of malfunction. Therefore, it is absolutely prohibited to put any vulcanized rubber or a material containing sulfur in the vicinity of the PDP module.
- (6) When taking out a PDP module from the maintenance package box, do it slowly so that the panel surface does not get any shock or stress.
- (7) If one touches the connector of the flexible cable exposed to the rear side of the PDP module, there is danger of causing a poor contact. As such, it must be handled with utmost care. In addition, the flexible cable is very weak in mechanical strength. Therefore, this cable must not be touched during handling.
- (8) The panel surface of the PDP module is easy to be hurt and generate cracks. Therefore, it should be handled very carefully. Never press or rub it with a hard thing. Never put it on a hard thing with the panel surface faced downwards.
- (9) When the panel surface of the PDP module is contaminated, gently wipe off the contaminant with a piece of soft dry cloth. Liquid-state contamination can be removed by lightly pressing it, without rubbing it. If it is difficult to remove the contamination, use a piece of cloth soaked with a neutral detergent. The cloth for wiping off should be clean. Never use the same cloth repeatedly. If a cleansing detergent or water drops should enter the module interior or be attached to the module surface other than the display plane at the time of cleaning, this will give rise to the destruction of the product when the product is energized.
- (10) When transporting this PDP module, use the packing materials specified in the list of parts. Once used, such packing materials should not be used again.
- (11) The PDP module is composed of a variety of parts, such as those made of materials like glass, metal, plastics, etc. Therefore, when abandoning the PDP module, this should be done in accordance with the relevant law of the nation or an autonomous body.
- (12) This product is composed of a variety of parts, such as those made of materials like glass, metal, plastics, etc., and those like a lithium battery, etc. Therefore, when abandoning this product, this should be done in accordance with the relevant law of the nation or an autonomous body.
  - CAUTION: Risk of Explosion if Battery is replaced by an Incorrect Type. Dispose of Used Batteries According to above the Instructions.
- \*1 Only PD-5065 supports "TRUE" mode. "TRUE" mode is available, when "PICTURE SIZE" is set to off in the "factory adjustment menu".

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

#### 1. Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

2 Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity.

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

5 Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

9 There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

#### 2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

#### 3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

#### 4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

#### 5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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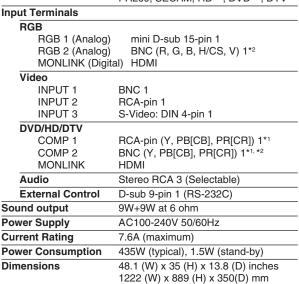
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# 1. SPECIFICATIONS

## 1.1 SPECIFICATIONS

# PD-5065 Specifications

Screen Size	43.5"(H) x 24.5"(V) inches
	1106(H) x 622(V) mm
	diagonal 50"
Aspect Ratio	16:9
Resolution	1365(H) x 768(V) pixels
Pixel Pitch	0.032"(H) x 0.032"(V) inches
	0.81(H) x 0.81(V) mm
Color Processing	4,096 steps, 68.7 billion colors
Signals	
Synchronization Rai	nge Horizontal: 15.5 to 110 kHz
	(automatic : step scan)
	Vertical: 50.0 to 120 Hz
	(automatic : step scan)
Input Signals	RGB, NTSC (3.58/4.43), PAL (B,G,M,N),
	PAL60, SECAM, HD*1, DVD*1, DTV*1
Input Terminals	
RGB	
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#### **Environmental Considerations**

Operating Temperature 0°C to 40°C / 32°F to 104°F Humidity 20 to 80% (no condensation) Altitude 0 to 9180 feet / 0 to 2800 m Storage Temperature -10°C to 50°C / 14°F to 122°F Humidity 10 to 90% (no condensation) Altitude 0 to 9840 feet / 0 to 3000 m

#### Front Panel User Controls

Volume up/down/OSM Control Remote Control Functions Power on/off, Input source select, Menu/

127 lbs / 57.6 kg(Net), 148 lbs / 67.4 kg(Gross)

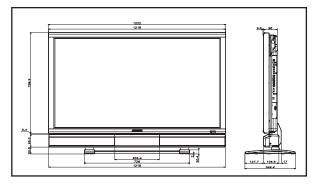
Exit, Volume up/down, Adjust (UP, DOWN, LEFT, RIGHT), Zoom up/down,

Input Source Select

Picture control buttons

Weight

OSM Functions PICTURE(PICTURE MEMORY/CONTRAST/ BRIGHTNESS/SHARPNESS/COLOR/TINT/NR/ COLOR TEMP./WHITE BALANCE/GAMMA/ LOW TONE/SET UP LEVEL/COLOR ADJUST/ FILMMODE/PICTURE MODE), AUDIO (BASS/ TREBLE/BALANCE/AUDIO INPUT1/AUDIO INPUT2/AUDIO INPUT3/MONITORLINK), IMAGE ADJUST (ASPECT MODE/V-POSITION/ H-POSITION/V-HEIGHT/H-WIDTH/AUTO PICTURE/FINE PICTURE/PICTURE ADJ.), SETUP (LANGUAGE\*/BNC INPUT/HD SELECT/RGB SELECT/HDMI SET UP/COLOR SYSTEM/BACK GROUND/GRAY LEVEL/S1/ S2/DISPLAY MENU/MENU ADJUST/ALL RESET), FUNCTION (POWER MGT./INPUT SKIP/LONG LIFE [PEAK BRIGHT / ORBITER / INVERSE WHITE / SOFT FOCUS / ORBITER MENU / MENU CONTRAST]), SIGNAL INFO.



Bezel color is black.

The features and specifications may be subject to change without notice.

*1HD/DVD/DTV input signals supported on this system									
480P (60 Hz)	480I (60 Hz)	525P (60 Hz)							
525I (60 Hz)	576P (50 Hz)	576I (50 Hz)							
625P (50 Hz)	625I (50 Hz)	720P (60 Hz)							
1035l (60 Hz)	1080I (50 Hz)	1080I (60 Hz)							
*2The 5-BNC connectors are used as RGB/PC2 and COMP2 input.									
Select one of th	em under "BNC IN	PUT".							

Other Features	Motion compensated 3D Scan Converter (NTSC, PAL, 480I, 576I, 525I, 625I, 1035I, 1080I), 2-3 pull down Converter (NTSC, 480I, 525I, 1035I, 1080I (60Hz)), 2-2 pull down Converter (PAL, 576I, 625I, NTSC, 480I, 525I), Digital Zoom Function (100-900% Selectable), Self Diagnosis, Image Burn reduction tools (PEAK BRIGHT, INVERSE WHITE, ORBITER), Color Temperature select (high/medium/mid low/low, user has 4 memories), Auto Picture, Input Skip, Color Adjust, Low Tone (3 mode), Gamma Correction (4 mode), Plug and play (DDC1, DDC2b, RGB3: DDC2b only).
Accessories	Remote control with two AAA batteries, Power cord, Owner's Guide, Safety metal fittings, Ferrite cores, Cable clamps, Registration Card, BNC-RCA Adapters
Regulations	UL Approved (UL 60065 and CAN/CSA-C22.2 No. 60065-03 Meets ICES-003 Class B requirements Meets FCC Class B requirements

<sup>\*</sup>English, German, French, Italian, Spanish, Swedish, Chinese, Russian

# PD-4265 Specifications

Screen Size	36.1"(H) x 20.4"(V) inches
	918(H) x 518(V) mm
	diagonal 42"
Aspect Ratio	16:9
Resolution	1024(H) x 768(V) pixels
Pixel Pitch	0.036"(H) x 0.027"(V) inches
	0.897(H) x 0.675(V) mm
Color Processing	4,096 steps, 68.7 billion colors
Signals	
Synchronization Range	Horizontal: 15.5 to 110 kHz
	(automatic : step scan)
	Vertical: 50.0 to 120.0 Hz
	(automatic : step scan)
Input Signals	RGB, NTSC (3.58/4.43), PAL (B,G,M,N),
. •	PAL60, SECAM, HD*1, DVD*1, DTV*1
Input Terminals	

#### RGB

RGB 1 (Analog)mini D-sub 15-pin 1 RGB 2 (Analog)BNC (R, G, B, H/CS, V) 1\*2 MONLINK (Digital)HDMI

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INPUT1 BNC 1 INPUT 2 RCA-pin 1 INPUT 3 S-Video: DIN 4-pin 1

#### DVD/HD/DTV

COMP 1 RCA-pin (Y, PB[CB], PR[CR]) 1\*1 BNC (Y, PB[CB], PR[CR]) 1\*1,\*2 COMP 2 MONLINK **HDMI** Audio Stereo RCA 3(Selectable) **External Control** D-sub 9-pin 1(RS-232C) Sound output 8W+8W at 6 ohm **Power Supply** AC100-240V 50/60Hz **Current Rating** 5.2A (maximum) Power Consumption 305W (typical), 1.5W(stand-by) **Dimensions** 40 (W) x 30 (H) x 11.8 (D) inches

1018 (W) x 763 (H) x 300(D) mm

Weight 95 lbs / 43 kg(Net), 113 lbs / 51.0 kg(Gross) **Environmental Considerations** 

OperatingTemperature 0°C to 40°C / 32°F to 104°F Humidity 20 to 80% (no condensation)

0 to 9180 feet / 0 to 2800m StorageTemperature -10°C to 50°C / 14°F to 122°F Humidity 10 to 90% (no condensation) Altitude 0 to 9840 feet / 0 to 3000 m

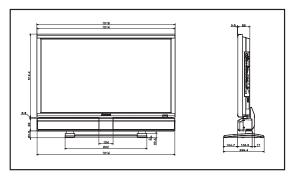
Front Panel User Controls Input source select, Volume up/down, OSM Control

RemoteControl Functions Power on/off, Input source select, Menu/ Exit, Volume up/down, Adjust (UP, DOWN, LEFT, RIGHT), Zoom up/down, Picture control buttons

OSM Functions PICTURE(PICTURE MEMORY/CONTRAST/ BRIGHTNESS/SHARPNESS/COLOR/TINT/

CONTRAST]), SIGNAL INFO.

NR/COLOR TEMP./WHITE BALANCE/ GAMMA/LOW TONE/SET UP LEVEL/ COLORADJUST/FILM MODE/PICTURE MODE), AUDIO (BASS/TREBLE/BALANCE/ AUDIO INPUT1/AUDIO INPUT2/AUDIO INPUT3/MONITORLINK), IMAGE ADJUST (ASPECT MODE/V-POSITION/H-POSITION/ V-HEIGHT/H-WIDTH/AUTO PICTURE/FINE PICTURE/PICTURE ADJ.), SETUP (LANGUAGE\*/BNC INPUT/HD SELECT/RGB SELECT/HDMI SET UP/ COLOR SYSTEM/BACK GROUND/GRAY LEVEL/S1/S2/DISPLAY MENU/MENU ADJUST/ALL RESET), FUNCTION (POWER MGT./INPUT SKIP/LONG LIFE [PEAK BRIGHT/ ORBITER / INVERSE WHITE / SOFT FOCUS / ORBITER MENU/MENU



Bezel color is black.

Thefeatures and specifications may be subject to change without

*1HD/DVD/DTV input signals supported on this system									
480P (60 Hz)	480I (60 Hz)	525P (60 Hz)							
525I (60 Hz)	576P (50 Hz)	576I (50 Hz)							
625P (50 Hz)	625I (50 Hz)	720P (60 Hz)							
1035I (60 Hz)	1080I (50 Hz)	1080I (60 Hz)							
*2 The 5-BNC connectors are used as RGB/PC2 and COMP2 input.									
Select one of ther	n under "BNC INPI	U <b>T''</b>							

Other Features	Motion compensated 3D Scan Converter (NTSC, PAL, 480I, 576I, 525I, 625I, 1035I, 1080I), 2-3 pull down Converter (NTSC, 480I, 525I, 1035I, 1080I (60Hz)), 2-2 pull down Converter (PAL, 576I, 625I, NTSC, 480I, 525I), Digital Zoom Function (100-900% Selectable), Self Diagnosis, Image Burn reduction tools (PEAK BRIGHT, INVERSEWHITE, ORBITER), Color Temperature select (high/middle/middle low/low, user has 4 memories), Auto Picture, Input Skip, Color Adjust, Low Tone (3 mode), Gamma Correction (4 mode), Plug and play (DDC1, DDC2b, RGB3: DDC2b only)
Accessories	Remote control with two AAA batteries, Power cord, Owner's Guide, Safety metal fittings, Ferrite cores, Cable clamps, Registration Card, BNC-RCA Adapters
Regulations	UL Approved (UL60065,and CAN/CSA- C22.2) No.60065-03 Meets ICES-003 Class B requirements Meets FCC Class B requirements

<sup>\*</sup>English, German, French, Italian, Spanish, Swedish, Chinese, Russian

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PD-5065

- TABLE OF SIGNAL SUPPORTED
  Supported resolution (PD-5065)

   When the screen mode is NARROW, each signal is converted to a 1024 dots 768 lines signal. (Except for \*2, \*3)

   When the screen mode is STANDARD, each signal is converted to a 1365 dots 768 lines signal. (Except for \*2)

#### Computer input signals supported by this system

		Vertical	Horizontal	Sync Po	olarity	Presen	nce	Screen	n mode	RGB	
Model Signal Type	Dots x lines	frequency (Hz)	frequency (kHz)	Horizontal	Vertical	Horizonta	l Vertical	NARROW (4:3)	STANDARD (16:9)	select*4	Memory
	640 x 400	70.1	31.5	NEG	NEG	YES	YES		YES	YES	4
	640 x 480	59.9	31.5	NEG	NEG	YES	YES	YES	YES	STILL	5
		72.8	37.9	NEG	NEG	YES	YES	YES	YES		7
		75.0	37.5	NEG	NEG	YES	YES	YES	YES	STILL	8
		85.0	43.3	NEG	NEG	YES	YES	YES	YES		9
		100.4	51.1	NEG	NEG	YES	YES	YES	YES		41
		120.4	61.3	NEG	NEG	YES	YES	YES	YES		42
	848 x 480	60.0	31.0	POS	POS	YES	YES		YES	WIDE2	19
	852 x 480*1	60.0	31.7	NEG	NEG	YES	YES		YES	WIDE1	17
	800 x 600	56.3	35.2	POS	POS	YES	YES	YES	YES	STILL	11
		60.3	37.9	POS	POS	YES	YES	YES	YES	STILL	12
		72.2	48.1	POS	POS	YES	YES	YES	YES		13
		75.0	46.9	POS	POS	YES	YES	YES	YES		14
		85.1	53.7	POS	POS	YES	YES	YES	YES		15
IBM PC/AT*7		99.8	63.0	POS	POS	YES	YES	YES	YES		43
compatible		120.0	75.7	POS	POS	YES	YES	YES	YES	NO	44
computers	1024 x 768	60.0	48.4	NEG	NEG	YES	YES	YES*2	YES	STILL	24
		70.1	56.5	NEG	NEG	YES	YES	YES*2	YES		25
		75.0	60.0	POS	POS	YES	YES	YES*2	YES	STILL	26
		85.0	68.7	POS	POS	YES	YES	YES*2	YES		27
		100.6	80.5	NEG	NEG	YES	YES	YES*2	YES		45
	1152 x 864	75.0	67.5	POS	POS	YES	YES	YES	YES	STILL	51
	1280 x 768	56.2	45.1	POS	POS	YES	YES		YES	WIDE1	52
		59.8	48.0	POS	NEG	YES	YES		YES	WIDE3	80
	1280 x 768*8	69.8	56.0	NEG	POS	YES	YES		YES	WIDE1	66
	1280 x 800*8	60.0	49.7	NEG	NEG	YES	YES		YES	WIDE1	21
	1280 x 854*8	60.0	53.1	NEG	NEG	YES	YES		YES	WIDE2	37
	1360 x 765	60.0	47.7	POS	POS	YES	YES		YES*2	WIDE1	22
	1360 x 768	60.0	47.7	POS	POS	YES	YES		YES*2	WIDE1	22
	1376 x 768	59.9	48.3	NEG	POS	YES	YES		YES	WIDE2	53
	1280 x 1024	60.0	64.0	POS	POS	YES	YES	YES*3	YES	STILL	29
		75.0	80.0	POS	POS	YES	YES	YES*3	YES		30
		85.0	91.1	POS	POS	YES	YES	YES*3	YES		40
		100.1	108.5	POS	POS	YES	YES	YES*3	YES		47
	1680 x 1050*8	60.0	65.3	NEG	NEG	YES	YES		YES	WIDE4	38
	1600 x 1200	60.0	75.0	POS	POS	YES	YES	YES	YES		54
	.000 x .200	65.0	81.3	POS	POS	YES	YES	YES	YES		55
		70.0	87.5	POS	POS	YES	YES	YES	YES		56
		75.0	93.8	POS	POS	YES	YES	YES	YES		57
		85.0	106.3	POS	POS	YES	YES	YES	YES		58
	1920 x 1200*8	60.0	74.6	NEG	NEG	YES	YES		YES	WIDE2	81
	1920 x 1200RB*8	60.0	74.0	NEG	NEG	YES	YES		YES	WIDE3	88
Apple	640 x 480	66.7	35.0		Sync on G			YES	YES		6
Macintosh*5 *7	832 x 624	74.6	49.7		Sync on G			YES	YES		16
	1024 x 768	74.0	60.2		Sync on G			YES*2	YES	WIDE1	28
	1152 x 870	75.1	68.7		Sync on G			YES	YES	WIDE1	39
	1440 x 900*8	60.0	56.0	NEG	NEG	YES	YES		YES		89
Work Station	1280 x 1024	60.0	64.6	NEG	NEG	YES	YES	YES*3	YES		29
(EWS4800)*7	1200 x 1024	71.2	75.1	NEG	NEG	YES	YES	YES*3	YES		48
Work Station(HP)*7	1280 x 1024	71.2	78.1	NEG 	NEG 			YES*3	YES		59
Work Station	1152 x 900	66.0	61.8					YES	YES		60
	1132 X 900			C Sync	C Sync						61
(SUN)*7	1280 x 1024	76.0	71.7	C Sync	C Sync			YES YES*3	YES		30
Marile Otalia		76.1	81.1	C Sync	C Sync				YES		62
Work Station	1024 x 768	60.0	49.7					YES*2	YES		
(SGI)	1280 x 1024	60.0	63.9					YES*3	YES		29
IDC-3000G	700	===	<u> </u>					\/F0:0	\/====		04
PAL625P	768 x 576	50.0	31.4	NEG	NEG	YES	YES	YES*6	YES*6		31
NTSC525P	640 x 480	59.9	31.5	NEG	NEG	YES	YES	YES*6		MOTION	32

- \*1 Only when using a graphic accelerator board that is capable of displaying 852 x 480.
- \*2 The picture is displayed in the original resolution.
- \*3 The aspect ratio is 5:4. This signal is converted to a 960 dots x 768 lines signal.
- \*4 Normally the RGB select mode suite for the input signals is set automatically. If the picture is not displayed properly, set the RGB mode prepared for the input signals listed in the table above.
- \*5 To connect the display to Macintosh computer, use a monitor adapter (NOT INCLUDED).
- \*6 Other screen modes (EXPAND and STRETCH) are available as well.
- \*7 When viewing a moving picture at a vertical frequency greater than 65Hz, the picture may sometimes be unstable (jumpy). If this occurs, please set the refresh rate of the external equipment to 60Hz.

  To view 480I@60Hz (480 interlaced lines, 60Hz refresh rate) or 576I@50Hz (567 interlaced lines, 50Hz refresh rate) when sync polarity is "Sync on Green", set "RGB SELECT" to "MOTION".
- \*8 CVT standard compliant.

#### NOTE:

- While the input signals comply with the resolution listed in the table above, you may have to adjust the position and size of the picture or the fine picture because of errors in synchronization of your computer.
- When a 1280 dots x 1024 lines signal or 1600 dots x 1200 lines signal is input to the monitor, the picture will be compressed.
- This display has a resolution of 1365 dots x 768 lines. It is recommended that the input signal should be XGA, wide XGA, or equivalent.
- · With digital input some signals are not accepted.
- The sync may be disturbed when a nonstandard signal other than the aforementioned is input.
- If you are connecting a composite sync signal, use the HD terminal.
- "IBM PC/AT" and "XGA" are registered trademarks of International Business Machines, Inc. of the United States.
- "Apple Macintosh" is a registered trademark of Apple Computer, Inc. of the United States.

- Supported resolution (PD-4265)

   When the screen mode is NARROW, each signal is converted to a 768 dots 768 lines signal. (Except for \*3)

   When the screen mode is STANDARD, each signal is converted to a 1024 dots 768 lines signal.

  Computer input signals supported by this system

		Vertical	Horizontal	Sync P	olarity	Presen	се	Screen	n mode	RGB	
Model Signal Type	Dots x lines	frequency (Hz)	frequency (kHz)		Vertical	Horizontal	Vertical	NARROW (4:3)	STANDARD (16:9)	select*4	Memoy
	640 x 400	70.1	31.5	NEG	NEG	YES	YES		YES	YES	4
	640 x 480	59.9	31.5	NEG	NEG	YES	YES	YES	YES	STILL	5
		72.8	37.9	NEG	NEG	YES	YES	YES	YES		7
		75.0	37.5	NEG	NEG	YES	YES	YES	YES	STILL	8
		85.0	43.3	NEG	NEG	YES	YES	YES	YES		9
		100.4	51.1	NEG	NEG	YES	YES	YES	YES		41
		120.4	61.3	NEG	NEG	YES	YES	YES	YES		42
	848 x 480	60.0	31.0	POS	POS	YES	YES		YES	WIDE2	19
	852 x 480*1	60.0	31.7	NEG	NEG	YES	YES		YES	WIDE1	17
	800 x 600	56.3	35.2	POS	POS	YES	YES	YES	YES	STILL	11
		60.3	37.9	POS	POS	YES	YES	YES	YES	STILL	12
		72.2	48.1	POS	POS	YES	YES	YES	YES		13
		75.0	46.9	POS	POS	YES	YES	YES	YES		14
		85.1	53.7	POS	POS	YES	YES	YES	YES		15
IBM PC/AT*7		99.8	63.0	POS	POS	YES	YES	YES	YES		43
compatible		120.0	75.7	POS	POS	YES	YES	YES	YES	NO	44
computers	1024 x 768	60.0	48.4	NEG	NEG	YES	YES	YES*2	YES	STILL	24
		70.1	56.5	NEG	NEG	YES	YES	YES*2	YES		25
		75.0	60.0	POS	POS	YES	YES	YES*2	YES	STILL	26
		85.0	68.7	POS	POS	YES	YES	YES*2	YES		27
		100.6	80.5	NEG	NEG	YES	YES	YES*2	YES		45
	1152 x 864	75.0	67.5	POS	POS	YES	YES	YES	YES	STILL	51
	1280 x 768	56.2	45.1	POS	POS	YES	YES		YES	WIDE1	52
		59.8	48.0	POS	NEG	YES	YES		YES	WIDE3	80
	1280 x 768*8	69.8	56.0	NEG	POS	YES	YES		YES	WIDE1	66
	1280 x 800*8	60.0	49.7	NEG	NEG	YES	YES		YES	WIDE1	21
	1280 x 854*8	60.0	53.1	NEG	NEG	YES	YES		YES	WIDE2	37
	1360 x 765	60.0	47.7	POS	POS	YES	YES		YES*2	WIDE1	22
	1360 x 768	60.0	47.7	POS	POS	YES	YES		YES*2	WIDE1	22
	1376 x 768	59.9	48.3	NEG	POS	YES	YES		YES	WIDE2	53
	1280 x 1024	60.0	64.0	POS	POS	YES	YES	YES*3	YES	STILL	29
		75.0	80.0	POS	POS	YES	YES	YES*3	YES		30
		85.0	91.1	POS	POS	YES	YES	YES*3	YES		40
		100.1	108.5	POS	POS	YES	YES	YES*3	YES		47
	1680 x 1050*8	60.0	65.3	NEG	NEG	YES	YES		YES	WIDE4	38
	1600 x 1200	60.0	75.0	POS	POS	YES	YES	YES	YES		54
		65.0	81.3	POS	POS	YES	YES	YES	YES		55
		70.0	87.5	POS	POS	YES	YES	YES	YES		56
		75.0	93.8	POS	POS	YES	YES	YES	YES		57
		85.0	106.3	POS	POS	YES	YES	YES	YES		58
	1920 x 1200*8		74.6	NEG	NEG	YES	YES		YES	WIDE2	81
	1920 x 1200RB*8	60.0	74.0	NEG	NEG	YES	YES		YES	WIDE3	88
Apple Macintosh*5 *7	640 x 480	66.7	35.0	_	Sync on G			YES	YES		16
IVIACIIILOSII - "/	832 x 624	74.6	49.7	Sync on G	_			YES*2	YES	WIDE1	16 28
	1024 x 768	74.9	60.2	Sync on G	Sync on G			YES*2	YES	WIDE1	
	1152 x 870	75.1	68.7	Sync on G	Sync on G			YES	YES	WIDE1	39 89
M	1440 x 900*8	60.0	56.0	NEG	NEG	YES	YES	 VEC*3	YES		29
Work Station (EWS4800)*7	1280 x 1024	60.0 71.2	64.6 75.1	NEG	NEG	YES	YES	YES*3	YES YES		48
,	1280 x 1024	71.2		NEG	NEG	YES	YES	YES*3	YES		59
Work Station(HP)*7 Work Station	1280 x 1024 1152 x 900	66.0	78.1 61.8	C C:				YES	YES		60
(SUN)*7	1132 X 900	76.0	71.7	C Sync	C Sync			YES	YES		61
(SUN)	1280 x 1024	76.0 76.1		C Sync	C Sync			YES*3	YES		30
Mark Station	1024 x 768	60.0	81.1 49.7	C Sync	C Sync			YES*2	YES		62
Work Station (SGI)	1024 x 766 1280 x 1024	60.0	63.9					YES*3	YES		29
IDC-3000G	1200 X 1024	00.0	03.8					163 -	IES		<i>L</i> 3
PAL625P	768 x 576	50.0	31.4	NEG	NEG	YES	YES	YES*6	YES*6		31
NTSC525P	640 x 480	59.9	31.4	NEG	NEG	YES	YES	YES*6	123	MOTION	32
141000201	U-0 A +00	55.5	01.0	INEG	INEG	IES	IES	1 20	l	INO LIOIA	

- \*1 Only when using a graphic accelerator board that is capable of displaying 852 x 480.
- \*2 The picture is displayed in the original resolution. The picture will be compressed for other signals.
- \*3 The aspect ratio is 5:4. This signal is converted to a 720 dots x 768 lines signal.
- \*4 Normally the RGB select mode suite for the input signals is set automatically. If the picture is not displayed properly, set the RGB mode prepared for the input signals listed in the table above.
- \*5 To connect the monitor to Macintosh computer, use the monitor adapter (D-Sub 15-pin) to your computer's video port.
- \*6 Other screen modes (EXPAND and STRETCH) are available as well.
- \*7 When viewing a moving picture at a vertical frequency greater than 65Hz, the picture may sometimes be unstable (jumpy). If this occurs, please set the refresh rate of the external equipment to 60Hz. To view 480I@60Hz (480 interlaced lines, 60Hz refresh rate) or 576I@50Hz (567 interlaced lines, 50Hz refresh rate) when sync polarity is "Sync on Green", set "RGB SELECT" to "MOTION".
- \*8 CVT standard compliant.

#### NOTE:

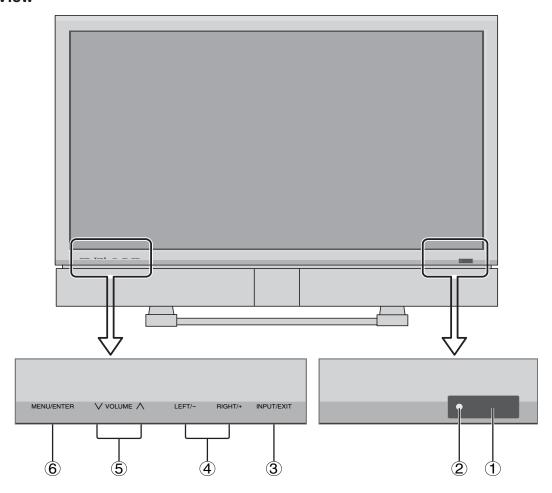
- While the input signals comply with the resolution listed in the table above, you may have to adjust the position and size of the picture or the fine picture because of errors in synchronization of your computer.
- This monitor has a resolution of 1024 dots x 768 lines. It is recommended that the input signal should be XGA, wide XGA, or equivalent.
- With digital input some signals are not accepted.
- The sync may be disturbed when a nonstandard signal other than the aforementioned is input.
- If you are connecting a composite sync signal, use the HD terminal.
- "IBM PC/AT" and "XGA" are registered trademarks of International Business Machines, Inc. of the United States.

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• "A pple Macintosh" is a registered trademark of Apple Computer, Inc. of the United States.

## **Part Names and Function**

#### **Front View**



#### **1) REMOTE SENSOR WINDOW**

Receives the signals from the remote control.

#### 2 POWER/STANDBY Indicator

When the power is on ...... Lights green. When the power is in the standby mode ... Lights red.

#### **③ INPUT / EXIT BUTTON**

Switches the input.

The available inputs depend on the setting of "BNC INPUT", "RGB SELECT" and "HDMI SET UP". Functions as the EXIT buttons in the On-Screen Menu mode.

#### 4 LEFT/- and RIGHT/+

Functions as the ADJUST (◀/►) buttons in the On-Screen Menu mode.

#### $\bigcirc$ VOLUME $\bigvee$ and $\bigwedge$

Adjusts the volume. Functions as the ADJUST  $(\triangle/\nabla)$  buttons in the On-Screen Menu mode.

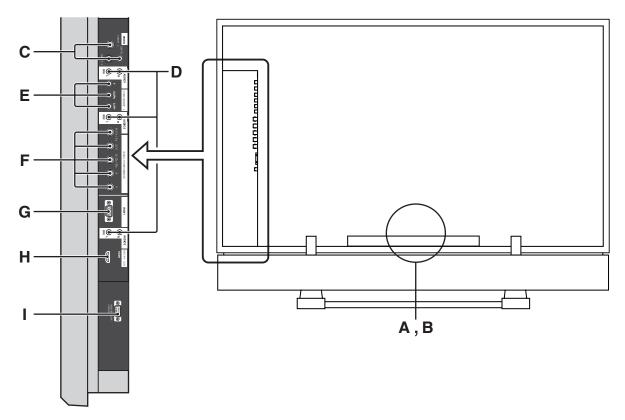
#### **6** MENU/ENTER BUTTON

Display the main menu or select a menu item. The MENU/ENTER button can also be used to turn the display on or off.

To turn the display on, press MENU/ENTER button. To turn the display off, press and hold the MENU/ENTER button for five seconds.

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## Side View Rear View



#### A AC IN

Connect the included power cord here.

## B EXT SPEAKER L and R

Maintain the correct polarity. The ⊕ (positive) speaker wire is connected to the ⊕ EXT SPEAKER terminal and the ⊖ (negative) speaker wire is connected to the ⊕ EXT SPEAKER terminal on both LEFT and RIGHT channels.

#### C INPUT1, 2, 3 (BNC, RCA, S-Video)

Connect VCR s, DVD s or Video Cameras, etc. here.

#### D AUDIO1, AUDIO2, AUDIO3

These are audio input terminals.

The input is selectable. Select which video input to assign them to from the audio menu screen.

#### **E** COMPONENT1

Connect DVD s, Cable Boxes or High Definition sources, etc. here.

#### F RGB2/COMPONENT2

COMP2: You can connect DVDs, High

Definition sources, Cable Boxes, etc.

here.

This input can be set for use with an

RGB or component source.

RGB2: You can connect an analog RGB signal

and the syncronization signal.

#### G RGB1 (D-Sub)

Connect an analog RGB signal from a computer, etc. here.

#### H MONITORLINK/HDMI

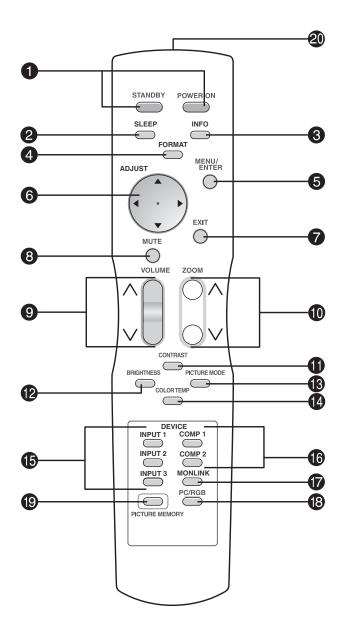
Connect a digital signal from a source with a HDMI output.

#### MONITORLINK CONTROL (RS-232C)

This terminal is used when operating and controlling the display externally (by external control).

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#### **Remote Control**



#### **1) POWER ON/STANDBY**

Switches the power to ON or STANDBY mode.

#### ② SLEEP

Press this button to activate the off timer.

#### ③ INFO

Displays the source settings on the screen.

#### (4) **FORMAT**

Automatically detects the signal and sets the aspect ratio. FORMAT button is not active for all signals.

#### **5** MENU/ENTER

Press this button to access the Menu.

Press this button during the display of the main menu to go to the sub menu.

#### **⑥** ADJUST (**△**/▼/**〈**/►)

Use these buttons to select items or settings and to adjust settings or switch the display patterns.

#### 7) EXIT

Press this button to exit the MAIN MENU. Press this button during the display of the sub menu to return to the previous menu.

#### (8) MUTE

Press this button to mute the audio.

#### $\bigcirc$ VOLUME $(\land \lor)$

Press this button to adjust audio volume.

#### ① **ZOOM** (\(\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}}} \end{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}}}}} \end{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}}} \end{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}} \end{\sqrt{\sqrt{\sign}}}}}}}} \end{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{

Press this button to enlarge or reduce the image.

#### (1) CONTRAST

Press this button to adjust contrast directly.

#### **12 BRIGHTNESS**

Press this button to adjust brightness directly.

## (3) PICTURE MODE

Press this button to adjust picture mode directly.

#### (4) COLOR TEMP

Press this button to adjust color tone directly.

#### (15) INPUT1, 2, 3

Press one of these buttons to select INPUT1 or INPUT2 or INPUT3 as the source.

INPUT 1-3 can also be selected using the INPUT/EXIT button on the front panel of the display.

#### 16 COMP1, 2

Press one of these buttons to select COMP1 or COMP2 as the source.

COMP 1-2 can also be selected using the INPUT/EXIT button on the front panel of the display.

#### (17) MONLINK

Press this button to select MONLINK/HDMI as the source.

#### 18 PC/RGB

Press this button to select PC/RGB as the source. PC/RGB can also be selected using the INPUT SELECT button on the display.

#### **19 PICTURE MEMORY**

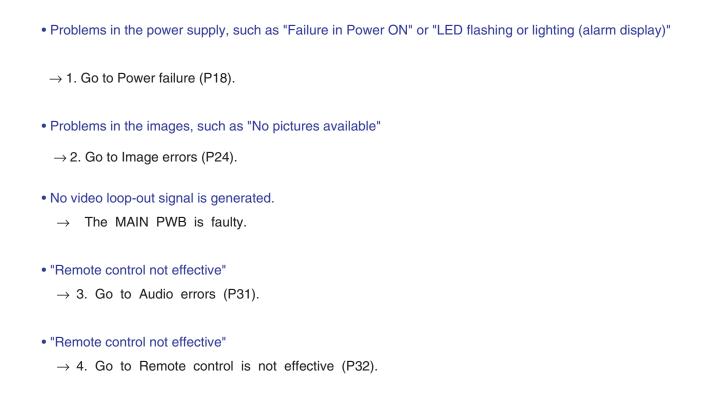
Switches sequentially between picture memory settings 1 to 6

#### 20 Remote control signal transmitter

Transmits the remote control signal

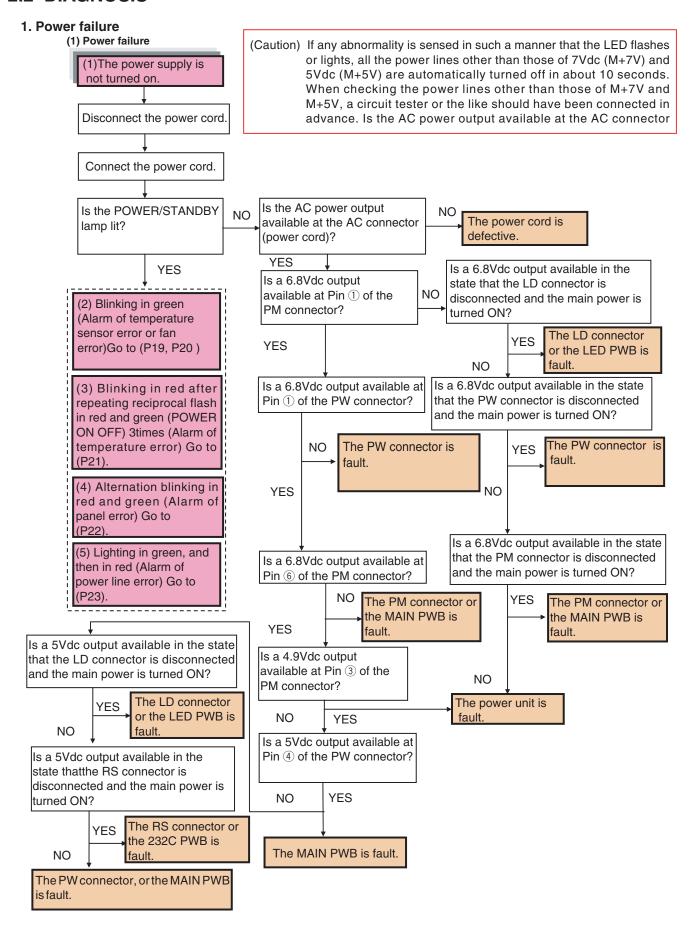
# 2. DIAGNOSIS

# 2.1 TROUBLESHOOTING



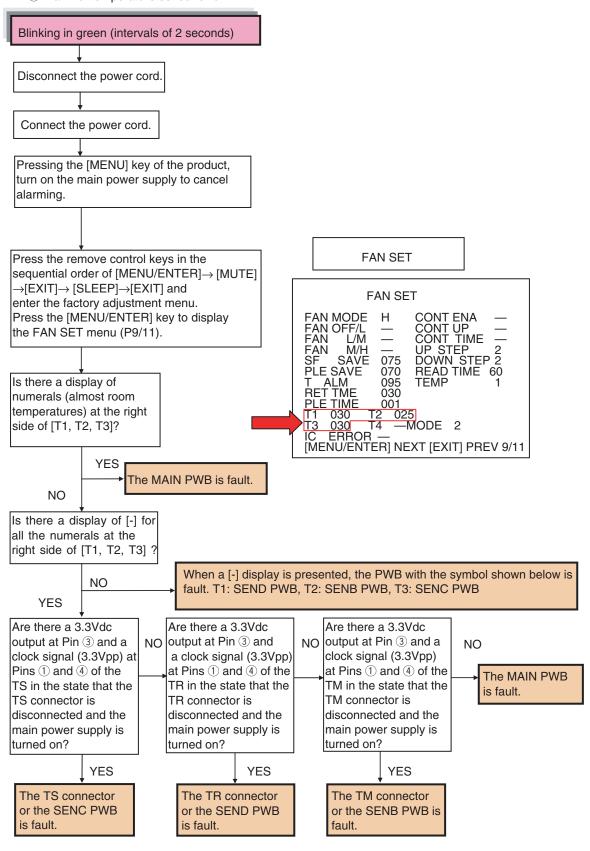
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#### 2.2 DIAGNOSIS

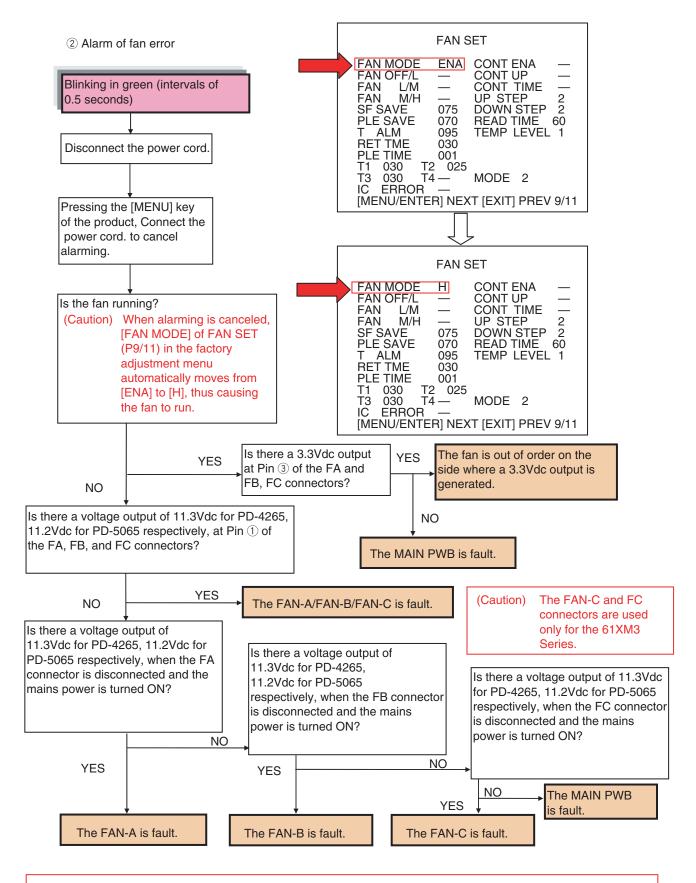


#### (2) Blinking in green

1) Alarm of temperature sensor error



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(Caution) In the FAN MODE, [ENA] is automatically recovered when the main power is turned OFF→ON.

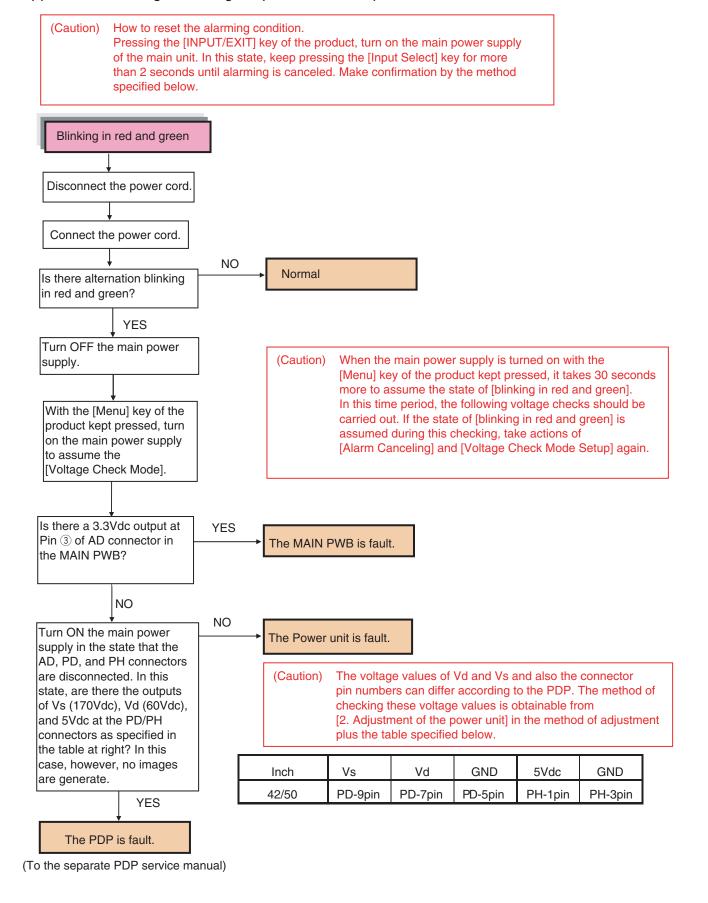
#### (3) Blinking in red (Alarm of temperature error)

Since the internal temperature is too high in the product, the temperature protector has been actuated. In such a case, the following actions should be taken immediately:

- 1. Turn off the main power supply and pull out the power cord from the wall outlet.
- 2. Wait for about 60 minutes until the temperature in the main unit lowers.
- 3. Check whether the heat discharge port is covered with dust or the like. If yes, remove the clogging substance.
- 4. If the unit is used where the ambient temperature is high, it should be moved to an adequate place (air temperature ranging from 5°C to 35°C).

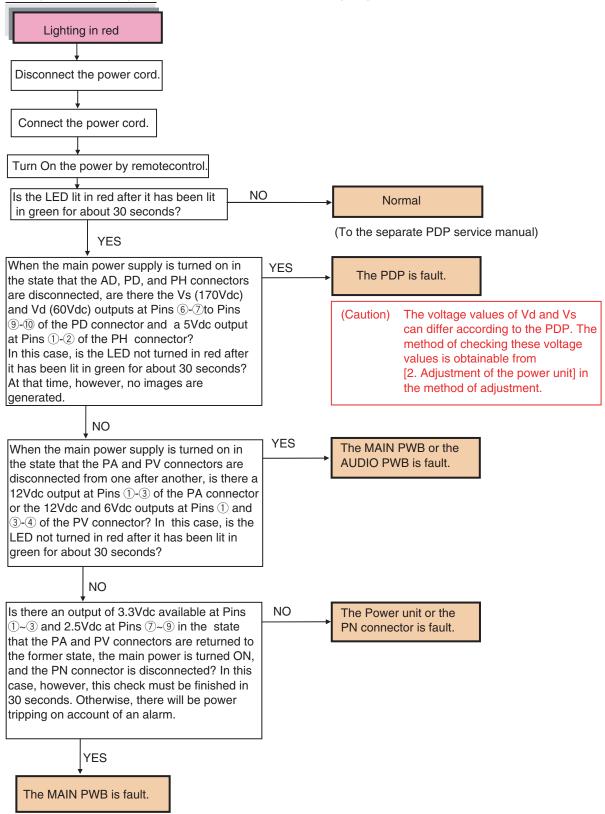
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#### (4) Alternation blinking in red and green (Alarm of PDP error)



#### (5) Lighting in green, and then in red (Alarm of power voltage error)

Unlike [lighting in red] in the STANDBY mode, [lighting in green] continues for about 30 seconds without any output of images and audio signals. Since then, the mode turns into [lighting in red].

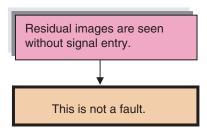


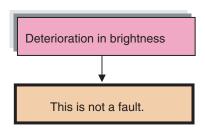
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## 2. Image errors

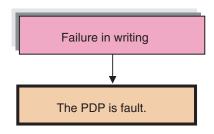
(Caution) Typical abnormal images are shown below. All errors do not always fall on these error samples.

#### (1) Image burn and deterioration in brightness

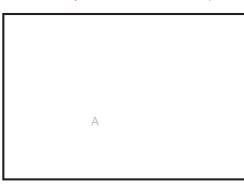




#### (2) Failure in writing

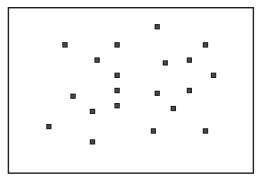


(To the separate PDP service manual)

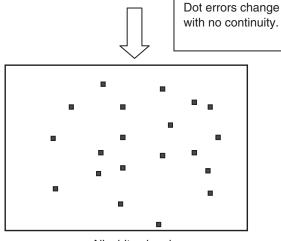




All-white signal

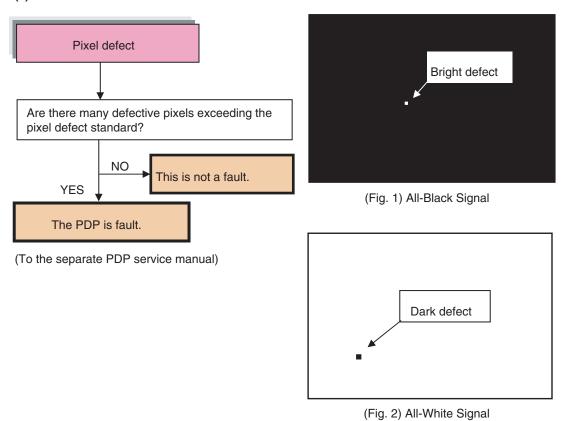


All-white signal



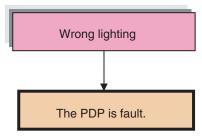
All-white signal

## (3) Pixel defect

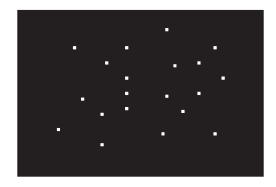


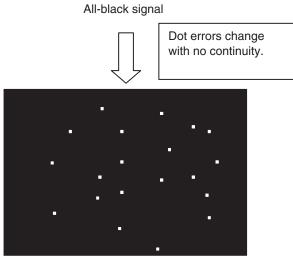
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#### (4) Wrong lighting



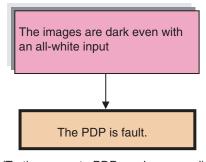
(To the separate PDP service manual)





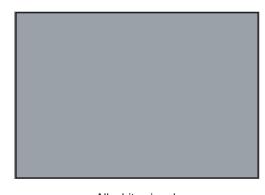
All-black signal

#### (5) Dark images [Other than the deterioration in brightness as per (1) above]



(To the separate PDP service manual)

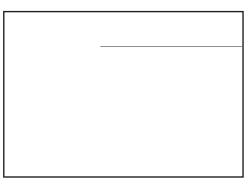
(6) Defect in horizontal lines



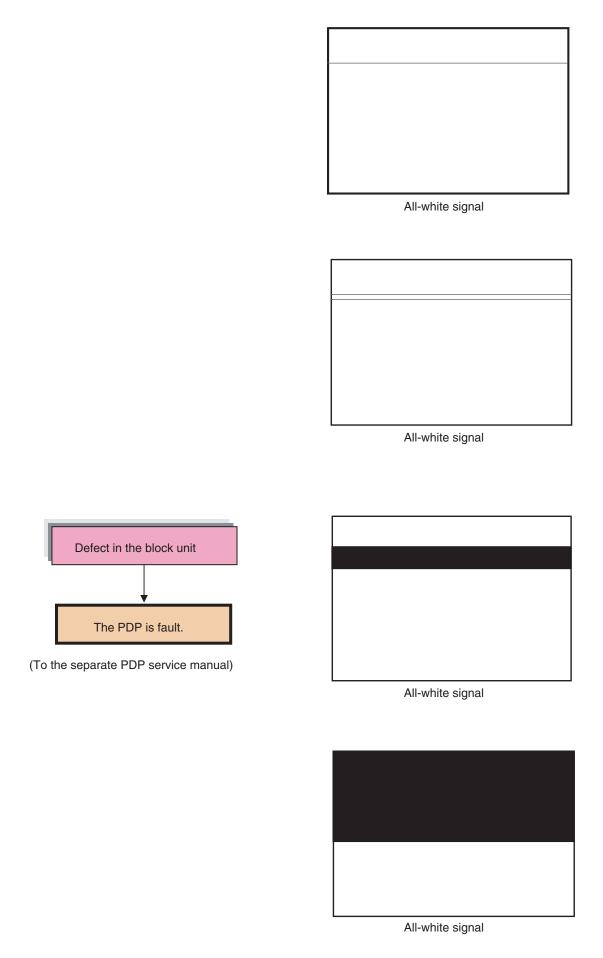
All-white signal

# Line defect The PDP is fault.

(To the separate PDP service manual)

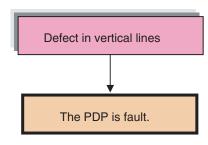


All-white signal

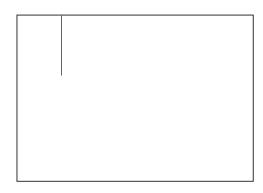


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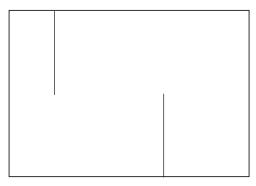
## (7) Defect in vertical lines



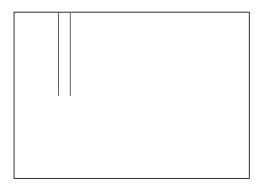
(To the separate PDP service manual)



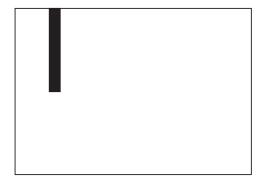
All-white signal



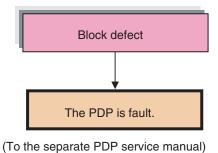
All-white signal



All-white signal



All-white signal



28

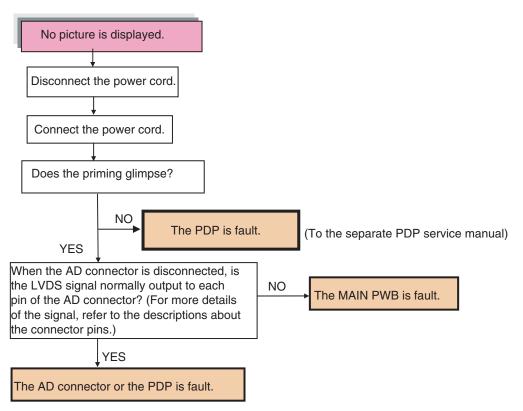


All-white signal



All-white signal

(8) No pictures [(Caution) The voltage outputs of Vs = 170V and Vd = 64V, 5Vdc are always generated, but the LED is not flashing or lighting for alarming. However, the voltage values can differ according to the MODULE.]

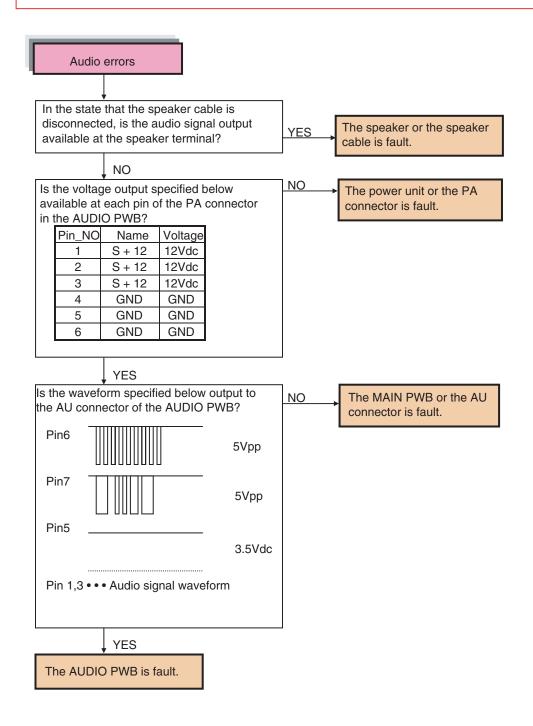


(To the separate PDP service manual)

#### 3. Audio errors

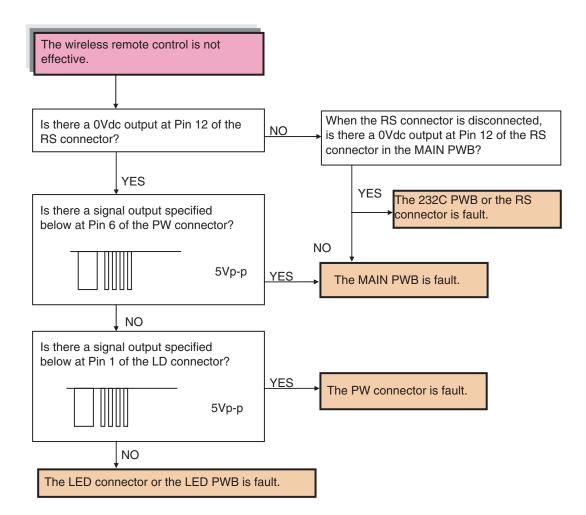
(Caution)

In regard to the method of audio input setting, refer to the specifications and the instruction manual to confirm that all the setting is free from errors. Since then, troubleshooting can be carried out. It must be noted that the protector functions and no audio output is available if the opposing electrodes of the speaker output or the speaker output and the ground (GND) are short-circuited. In such a case, turn off the main power supply and make the connections correctly. The protector is reset when the main power supply is turned on after that



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#### 4. Remote control is not effective.





## 3.1 ADJUSTING CONDITIONS

Adjustments should be carried out in the procedures of A to C specified below. However, any adjustments other than the items A to C below are not required.

- A. When the "PDP module " is replaced, adjustments should conform to the adjusting items of [1 and 2] specified below.
- B. When the "POWER UNIT" is replaced, adjustments should conform to the adjusting item of [2] specified below.
- C. When the "MAIN PWB" is replaced, adjustments should conform to the adjusting item of [3] specified below.

#### 3.2 ADJUSTING ITEMS

#### 1. Clearing of the usage time (Using the remote control)

- (1) Press the keys in the order of [MENU/ENTER] → [MUTE] → [EXIT] → [SLEEP] → [EXIT] in order to enter the factory adjustment menu.
- (2) Press the [MENU/ENTER] key to select the [USAGE TIME] menu (8/11). Then, the integrated time [34567 (hours)] (example) accumulated till the present time is displayed when the main power supply is turned on (except for the standby mode).

USAGE TIME

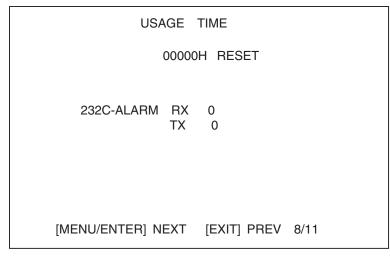
34567H

232C-ALARM RX 0

TX 0

[MENU/ENTER] NEXT [EXIT] PREV 8/11

(3) When the keys are pressed in the order of [MUTE]  $\rightarrow$  POSITION/CONTROL [  $\blacktriangle$  ]  $\rightarrow$  POSITION/CONTROL [  $\blacktriangledown$  ]  $\rightarrow$  [SLEEP], the display is cleared to [00000H]. At that time, the characters of [RESET] are displayed for about 5 seconds on the right side of time display.



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# 2. Adjustment of the power unit (Using a screwdriver for general-purpose adjustments)

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#### 2-1. Adjustment of the Vs voltage

- (1) Enter a color bar input by means of either video signal of VIDEO input, or DVD/HD input, or RGB input, and turn on the power switch of the main unit.
- (2) Turn the volume control (VS ADJ VR151) in the power unit and make adjustments until the voltages of Vs and D, GND of the power unit attain the voltage values specified for the PDP (Vs value of the voltage regulation indicator label on below the figure)  $\pm 1V$ .

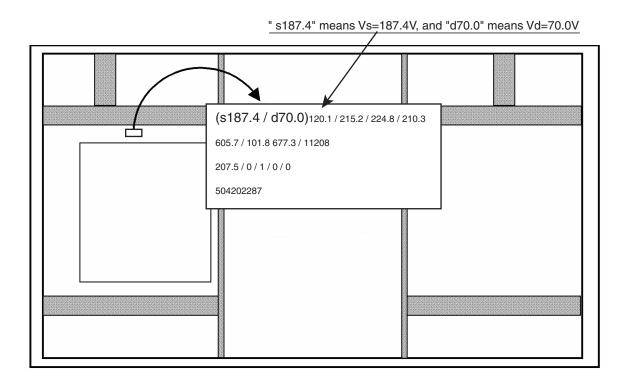
#### 2-2. Adjustment of the Vd voltage

- (1) Enter a color bar input by means of either video signal of VIDEO input, or DVD/HD input, or RGB input, and turn on the power switch of the main unit.
- (2) Confirm that the voltages of Vd and D, GND of the power unit are maintained at <u>the voltage</u> values specified for the PDP (Vd value of the voltage regulation indicator label on below the figure)  $\pm 1$ V.

Otherwise, turn the volume control (Vd ADJ VR161) until the voltage attains the voltage values specified for the PDP (Vd value of the voltage regulation indicator label on below the figure)  $\pm 1$ V.

#### 2-3. Adjustment of the +5V voltage

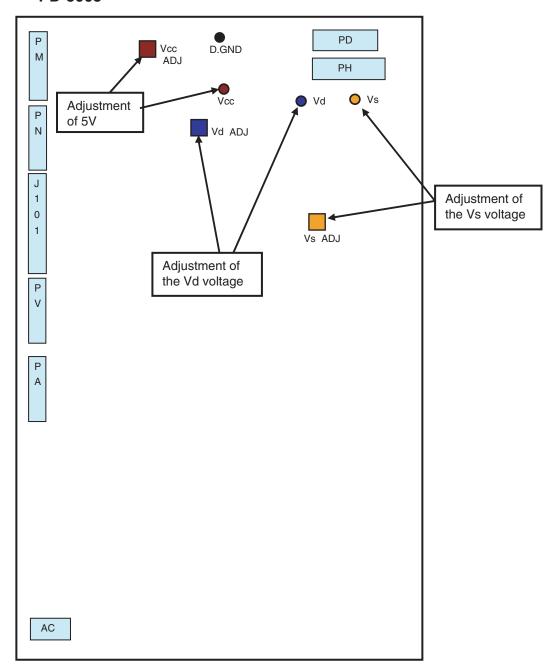
- (1) Display a color bar by means of either video signal of VIDEO input, or DVD/HD input, or RGB input.
- (2) Confirm that the voltages of Vcc and D, GND of the power unit are maintained at " $5.15 \pm 0.1V$ ". Otherwise, turn the volume control (Vcc ADJ VR121) until the voltage attains " $5.15 \pm 0.1V$ ".



(Caution) Rear-side view when the back cover is removed The label is concealed between the MAIN PWB and PDP. Check it by peeping through the space from above. The label position can be changed, without notice.

\* Top view of the power unit (Adjustment VR location)

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#### • PD-4265

#### 2-1. Adjustment of the Vs voltage

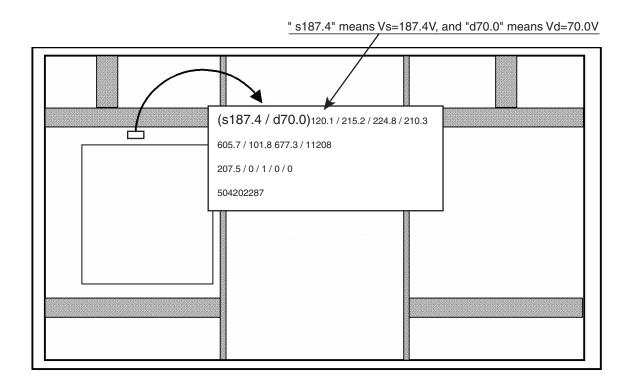
- (1) Enter a color bar input by means of either video signal of VIDEO input, or DVD/HD input, or RGB input, and turn on the power switch of the main unit.
- (2) Turn the volume control (VS ADJ VR151) in the power unit and make adjustments until the voltages of Vs and D, GND of the power unit attain the voltage values specified for the PDP (Vs value of the voltage regulation indicator label on below the figure) ±1V.

#### 2-2. Adjustment of the Vd voltage

- (1) Enter a color bar input by means of either video signal of VIDEO input, or DVD/HD input, or RGB input, and turn on the power switch of the main unit.
- (2) Turn the volume control (Vd ADJ VR161) in the power unit and make adjustments until the voltages of Vs and D, GND of the power unit attain the voltage values specified for the PDP (Vd value of the voltage regulation indicator label on below the figure) ±1V.

#### 2-3. Adjustment of the +5V voltage

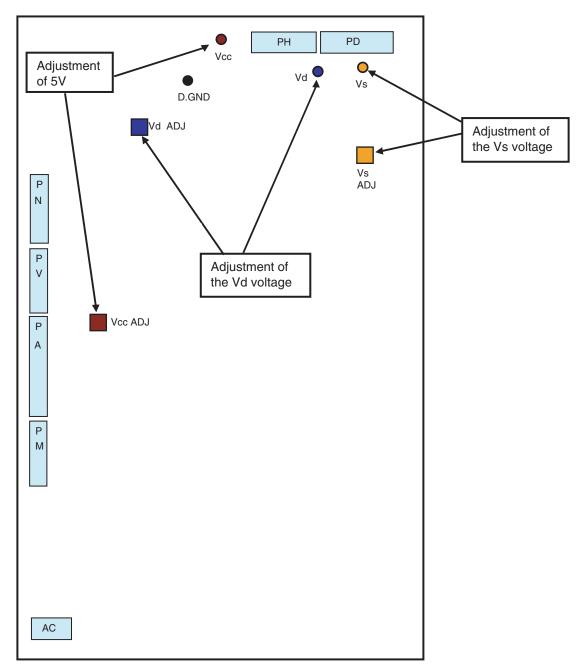
- (1) Display a color bar by means of either video signal of VIDEO input, or DVD/HD input, or RGB input.
- (2) Confirm that the voltages of Vcc and D, GND of the power unit are maintained at " $5.15 \pm 0.1V$ ". Otherwise, turn the volume control (Vcc ADJ VR121) until the voltage attains " $5.15 \pm 0.1V$ ".



(Caution) Rear-side view when the back cover is removed The label is concealed between the MAIN PWB and PDP. Check it by peeping through the space from above. The label position can be changed, without notice.

\* Top view of the power unit (Adjustment VR location)

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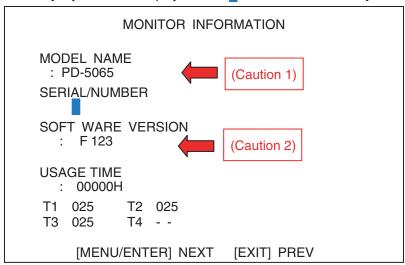
### 3. Adjustments after the replacement of the MAIN PWB (Using the remote control)

### 3-1. Product serial No. registration

- (1) Press the keys in the order of [MENU/ENTER] → [MUTE] → [EXIT] → [SLEEP] → [EXIT] in order to enter the factory adjustment menu.
- (2) Press the [MENU/ENTER] key to select the [MONITOR INFORMATION] No. menu. (Example: PD-5065)

MODEL NAME
: PD-5065
SERIAL/NUMBER
: SOFT WARE VERSION
: F123
USAGE TIME
: 00000H
T1 025 T2 025
T3 025 T4 - -

(3) Press the [FORMAT] key 4 times to display a cursor in the lower column of [SERIAL/NUMBER].



- (Caution 1) No modification is possible here because this modification is already finished by 3-2. Factory shipment setting (initial setting).
- (Caution 2) No modification is possible here because registration is already finished at the time of shipment in terms of maintenance parts.
- (4) Moving the POSITION/CONTROL keys of [  $\blacktriangle$ ] and [  $\blacktriangledown$ ], select the numerals and characters of the serial number that is listed in the serial label located on the rear surface of the product. Register the serial number. (Blank  $\to$  0 9 $\to$ A -Z)
- (5) Moving the POSITION/CONTROL keys of [ ◀ ] and [ ▶], select the next digit by means of a cursor.
- (6) Repeat the processes of (4) and (5) above and register the serial number completely.

### (Example) When entering a serial number of [DISS00001XX]

Move the POSITION/CONTROL keys of [ $\blacktriangle$ ] and [ $\blacktriangledown$ ] to select [D].

### MONITOR INFORMATION

MODEL NAME

: PD-5065

SERIAL/NUMBER

: D

SOFT WARE VERSION

: F 123

**USAGE TIME** 

: 00000H

T1 025 T2 025 T3 025 T4 - -

[MENU/ENTER] NEXT [EXIT] PREV

Move the POSITION/CONTROL keys of [ ◀ ] and [ ▶ ] to select the next digit.

### MONITOR INFORMATION

MODEL NAME

: PD-5065

SERIAL/NUMBER

: D

SOFT WARE VERSION

: F 123

**USAGE TIME** 

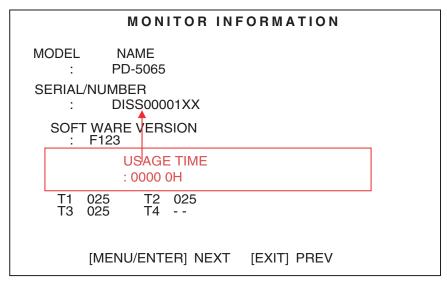
: 00000H

T1 025 T2 025 T3 025 T4 - -

[MENU/ENTER] NEXT [EXIT] PREV

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③ Repeat the procedures of ① and ② above, and enter all inputs of [DISS00001XX] from the left side.



(7) Following the above, setting must be carried out without fail according to "3-2. Factory shipment setting (Initial setting)"

### 3-2. Factory shipment setting (Initial setting)

- (1) Press the [MENU/ENTER] ke to select the [FUNCTION] menu.
- (2) Move the POSITION/CONTROL keys of [ ] and [ ] to the item of [SHIP]. Then, move the POSITION/CONTROL keysof [ ] and [ ] to select [AW] shown below. (The asterisks \* shown below denote the numerals or the characters.)

AW : For use in Japan and North America

FUNCTION						
SCART SHIP LIMIT-VD LIMIT-PC GAMMA MD VOL OFFSET FHCRT COMI ACTVH TIME PSC-T EXT-PC B-DOWN	2 2 DFF	SAFEL MODE PLE TEST OFF VD2VLIM 5HZ VD2 YCORB VD2 YCOREN ON VD2 CORB VD2 COREN ON VD OUT 10 ROTATEPTN 1 BLUEGAIN OFF				
[MENU/ENTER	R] NEXT	[EXIT] PREV				

(3) Press the keys in the order of [MUTE]→POSITION/CONTROL [▲] → POSITION/CONTROL [▼] →[SLEEP] to make "Factory shipment setting". When "Factory shipment setting" is executed, the red characters of [SET] is shown for about 5 seconds on the right side of the [AW]. The setting is finished when these red characters of [SET] go out. In regard to the factory shipment setting values, refer to the descriptions given below.

FUNCTION						
SCART SHIP LIMIT-VD LIMIT-PC GAMMA MD VOL OFFSET FHCRT COMP ACTVH TIME PSC-T EXT-PC B-DOWN	OFF OFF ON 10 2 3 2 OFF OFF ON	SAFEL MODE FLE TEST OFF VD2 VLIM VD2 YCORB VD2YCOREN VD2 CORB VD2 COREN VD OUT ROTATE PTN BLUE GAIN	 5HZ 1 ON 1 ON 8 1 OFF			
[MENU/ENTER]	NEXT [E	EXIT] PREV				

(4) Press the keys of the remote control in the order of [MENU/ENTER]  $\rightarrow$  [MUTE]  $\rightarrow$  [EXIT]  $\rightarrow$  [SLEEP]  $\rightarrow$  [EXIT] in order to withdraw from the Factory shipment setting.

## [Factory shipment setting values]

1. Initial setting values for the user menu

MENU	AW
POWER ON/OFF	ON
VOLUME	10step
INPUT MODE	INPUT1
WIDE MODE	STRETCH
AUTO PICTURE	OFF(RGB1,2,MONITORLINK)
HD SELECT	1080
LANGUAGE	ENGLISH
COLOR SYSTEM	AUTO
All items intended to recover the initial valuesthrough the selection of [All Reset] in the user menu	Initial values

2. Field menu initial setup values (applicable in common to all models)

ME	AW	
	SHIP	AW
	PSC-LIMIT	OFF
	LIMIT-PC	ON
	U-SCAN	OFF
SERVICE	V-FREQ OT	AUTO
	V-FREQ VD	AUTO
	SYNCLEVEL1	TTL
	SYNCLEVEL2	TTL
	SUB-ORB *1	ON
	PIC FREEZE *1	ON
MONITOR INFORMATION	MODEL NAME	1*

1\*. MONITOR INFORMATION

PD-4265 : **PD-4265** PD-5065 : **PD-5065** 

3. Initial setting values for the Factory shipment setting menu The table shown below specifies only the items that can be changed in the factory adjusting mode. Therefore, any setting values of the items not specified below cannot be modified.

ME	A,AW	
FUNCTION	SHIP	AW
	LIMIT-PC	ON
MONITOR INFORMATION	SERIAL/ NUMBER	-

#### [Materia Is for reference]

### 1. Signal generator

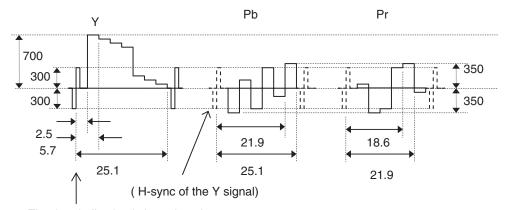
- (1) Digital RGB
- , Component signal generator
  - Equivalent to the VIDEO GENERATOR LT1615 (made by LEADER)
  - Equivalent to the PANEL LINK ADAPTER LT9217 (made by LEADER)
  - Equivalent to the VIDEO ENCODE R LT1606 (made by LEADER)
- (2) NTSC signal generator
  - Equivalent to the NTSC PATTERN GENERATER LCG-403YC (made by LEADER)
- (3) PAL signal generator
  - Equivalent to the COLOR BAR PATTERN GENERATOR PM5518 (made by PHILIPS)

### 2. VIDEO input

Input: Composite video input or S-terminal input

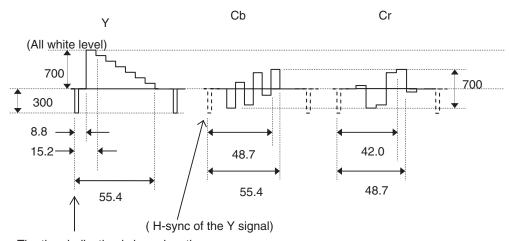
#### 3. DVD/HD/DTV inputs

### 3-1. HD: Y/Pb/Pr component inputs, ternary sync signals



The time indication is based on the rise time of the ternary sync signals.

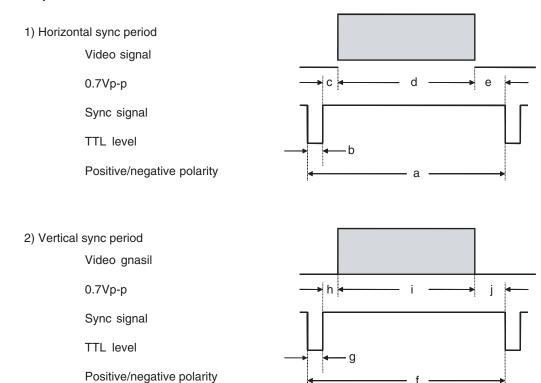
### 3-2. DVD: Y/Cb/Cr component inputs



The time indication is based on the lowering of the Horizontal sync signal.

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## 4. RGB inputs



For the respective inspection signals, the above "a" to "j" shall be listed on the next page and thereafter.

### 5. RGB/PC signal timing table

(Caution 1) For HDCP non-application products, the signals of the PC mode 1 ~ 89 can be received. For HDCP application products, the signals of the PC mode 1 ~ 98 can be received.

(Caution 2) The received PC mode number specified below is displayed in the memory column of the user menu "Information."

"Information	•				
PC mode	1	2	3	4	5
Signal name	VU-6010 NTSC	VU-6010 PAL/SECAM		PC98 400@70Hz	PC98 480@60Hz
Definition	640*240	768*288		640*400	640*480
Dot clock frequency (MHz)	12.214	14.752		25.175	25.175
H frequency (kHz)	15.734	15.557		31.469	31.469
V frequency (Hz)	59.94	50.39		70.086	59.94
H total (uS)	63.534	64.262		31.778	31.778
(dots) [a]	776	948		800	800
H display period (uS	52.4	52.06		25.422	25.422
[d] (dots)	640	768		640	640
H front porch (uS)	1.146	1.288		0.675	0.596
[c] (dots)	14	19		17	15
H sync pulse width	8.76	8.677	NOT USED	2.542	3.813
[b] (uS) (dots)	107	128		64	96
H back porch (uS)	1.228	2.237		3.138	1.946
(dots) [e]	15	33		79	49
V total (mS)	16.652	20.055		14.268	16.683
(line) [f]	262	312		449	525
V display period (mS)	15.3	18.513		12.711	15.253
[i] (line)	240	288		400	480
V front porch (mS)	0.191	0.321		0.413	0.191
[h] (line)	3	5		13	6
V sync pulse width	1.144	1.093		0.064	0.064
[g] (mS)(line)	18	17		2	2
V back porch (mS)	0.064	0.064		1.08	1.176
(line)	1	1		34	37
H sync polarity	Neg	Neg		Neg	Neg
V sync polarity	Neg	Neg		Neg	Neg
Scan type	Interlaced	Interlaced		Non Interlaced	Non Interlaced
Remarks					

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PC mode	6	7	8	9	10
Signal name	MAC@13"	VESA	VESA	VESA	
		480@72Hz	480@75Hz	480@85Hz	
Definition	640*480	640*480	640*480	640*480	
Dot clock frequency (MHz)	30.24	31.5	31.5	36.0	
H frequency (kHz)	35	37.861	37.5	43.269	
V frequency (Hz)	66.667	72.809	75	85.008	
H total (uS)	28.571	26.413	26.667	23.111	
(dots)	864	832	840	832	
H display period (uS	21.164	20.317	20.317	17.778	
(dots)	640	640	640	640	
H front porch (uS)	2.116	0.762	0.508	1.556	
(dots)	64	24	16	56	NOTHOER
H sync pulse width	2.116	1.27	2.032	1.556	
(uS) (dots)	64	40	64	56	
H back porch (uS)	3.175	4.064	3.81	2.222	NOT USED
(dots)	96	128	120	80	
V total (mS)	15	13.735	13.333	11.764	
(line)	525	520	500	509	
V display period (mS) (line)	13.714	12.678	12.8	11.093	
(iiie)	480	480	480	480	
V front porch (mS) (line)	0.086	0.237	0.027	0.023	
(iiiie)	3	9	1	1	
V sync pulse width	0.086	0.079	0.08	0.069	
(mS)(line)	3	3	3	3	
V back porch (mS) (line)	1.114	0.739	0.427	0.578	
(iiiie)	39	28	16	25	
H sync polarity	Sync on G	Neg	Neg	Neg	
V sync polarity	Sync on G	Neg	Neg	Neg	
Scan type	Non Interlaced	Non Interlaced	Non Interlaced	Non Interlaced	
Remarks					

PC mode	11	12	13	14	15
Signal name	VESA	VESA	VESA	VESA	VESA
	600@56Hz	600@60Hz	600@72Hz	600@75Hz	600@85Hz
Definition	800*600	800*600	800*600	800*600	800*600
Dot clock frequency (MHz)	36	40	50	49.5	56.25
H frequency (kHz)	35.156	37.879	48.077	46.875	53.674
V frequency (Hz)	56.25	60.317	72.188	75	85.061
H total (uS)	28.444	26.4	20.8	21.333	18.631
(dots)	1024	1056	1040	1056	1048
H display period (uS	22.222	20	16	16.162	14.222
(dots)	800	800	800	800	800
H front porch (uS)	0.667	1	1.12	0.323	0.569
(dots)	24	40	56	16	32
H sync pulse width	2	3.2	2.4	1.616	1.138
(uS) (dots)	72	128	120	80	64
H back porch (uS)	3.556	2.2	1.28	3.232	2.702
(dots)	128	88	64	160	152
V total (mS)	17.778	16.579	13.853	13.333	11.756
(line)	625	628	666	625	631
V display period (mS)	17.067	15.84	12.48	12.8	11.179
(line)	600	600	600	600	600
V front porch (mS)	0.028	0.026	0.77	0.021	0.019
(line)	1	1	37	1	1
V sync pulse width	0.057	0.106	0.125	0.064	0.056
(mS)(line)	2	4	6	3	3
V back porch (mS)	0.626	0.607	0.478	0.448	0.503
(line)	22	23	23	21	27
H sync polarity	Pos.	Pos.	Pos.	Pos.	Pos.
V sync polarity	Pos.	Pos.	Pos.	Pos.	Pos.
Scan type	Non Interlaced				
Remarks					

PC <b>mode</b>	16	17	18	19	20
Signal name	MAC@16"	I/O data wide	VESA	VESA wide	
				(NEC1)	
Definition	832*624	852*480		848*480	
Dot clock frequency (MHz)	57.2832	34.006		33.75	
H frequency (kHz)	49.725	31.722		31.02	
V frequency (Hz)	74.55	59.966		60	
H total (uS)	20.111	31.524		32.237	
(dots)	1152	1072		1088	
H display period (uS	14.524	25.055		25.126	
(dots)	832	852		848	
H front porch (uS)	0.559	0.659	NOT USED	0.474	
(dots)	32	22		16	
H sync pulse width	1.117	3.764		3.319	
(uS) (dots)	64	128		112	NOTHOES
H back porch (uS)	3.91	2.047		3.319	NOT USED
(dots)	224	70		112	
V total (mS)	13.414	16.676		16.667	
(line)	667	529		517	
V display period (mS)	12.549	15.132		15.474	
(line)	624	480		480	
V front porch (mS)	0.02	0.378		0.193	
(line)	1	12		6	
V sync pulse width	0.06	0.095		0.258	
(mS)(line)	3	3		8	
V back porch (mS)	0.784	1.072		0.741	
(line)	39	34		23	
H sync polarity	Sync on G	Neg		Pos.	
V sync polarity	Sync on G	Neg		Pos.	
Scan type	Non Interlaced	Non Interlaced		Non Interlaced	
Remarks					

PC mode	21	22	23	24	25
Signal name		VESA wide		VESA	VESA
		(NEC4)		768@60Hz	768@70Hz
Definition		1360*768		1024*768	1024*768
Dot clock frequency (MHz)		85.5		65	75
H frequency (kHz)		47.712		48.363	56.476
V frequency (Hz)		60.015		60.004	70.069
H total (uS)		20.959		20.677	17.707
(dots)		1792		1344	1328
H display period (uS		15.906		15.754	13.653
(dots)		1360		1024	1024
H front porch (uS)		0.749		0.369	0.32
(dots)		64		24	24
H sync pulse width		1.31		2.092	1.813
(uS) (dots)	NOTHOED	112	NOTHOED	136	136
H back porch (uS)	NOT USED	2.994	NOT USED	2.462	1.92
(dots)		256		160	144
V total (mS)		16.662		16.666	14.272
(line)		795		806	806
V display period (mS) (line)		16.097		15.88	13.599
(iiiie)		768		768	768
V front porch (mS) (line)		0.063		0.062	0.053
(iiile)		3		3	3
V sync pulse width		0.126		0.124	0.106
(mS)(line)		6		6	6
V back porch (mS) (line)		0.377		0.6	0.513
(iiile)		18		29	29
H sync polarity		Pos.		Neg	Neg
V sync polarity		Pos.		Neg	Neg
Scan type		Non Interlaced		Non Interlaced	Non Interlaced
Remarks					

PC mode	26	27	28	29	30
Signal name	VESA 768@75Hz	VESA 768@85Hz	MAC@19"	VESA 1024@60Hz	VESA 1024@75Hz
Definition	1024*768	1024*768	1024*768	1280*1024	1280*1024
Dot clock frequency (MHz)	78.75	94.5	80	108	135
H frequency (kHz)	60.023	68.677	60.24	63.981	79.976
V frequency (Hz)	75.029	84.997	74.93	60.02	75.025
H total (uS)	16.66	14.561	16.600	15.63	12.501
(dots)	1312	1376	1328	1688	1688
H display period (uS	13	10.836	12.8	11.852	9.481
(dots)	1024	1024	1024	1280	1280
H front porch (uS)	0.203	0.508	0.4	0.444	0.119
(dots)	16	48	32	48	2
H sync pulse width	1.219	1.016	1.2	1.037	1.067
(uS) (dots)	96	96	96	112	144
H back porch (uS)	2.235	2.201	2.2	2.296	1.837
(dots)	176	208	176	248	248
V total (mS)	13.328	11.765	13.347	16.661	13.329
(line)	800	808	804	1066	1066
V display period (mS)	12.795	11.183	12.749	16.005	12.804
(line)	768	768	768	1024	1024
V front porch (mS)	0.017	0.015	0.050	0.016	0.013
(line)	1	1	3	1	1
V sync pulse width	0.05	0.044	0.050	0.047	0.038
(mS)(line)	3	3	3	3	3
V back porch (mS)	0.466	0.524	0.498	0.594	0.475
(line)	28	36	30	38	38
H sync polarity	Pos.	Pos.	_	Pos.	Pos.
V sync polarity	Pos.	Pos.	_	Pos.	Pos.
Scan type	Non Interlaced	Non Interlaced	Non Interlaced	Non Interlaced	Non Interlaced
Remarks					

PC mode	31	32	33	34	35
Signal name	IDC-3000G PAL 625P	IDC-3000G NTSC 525P	HDTV-JD	TV(480P)	DTV(720P)
Definition	768*576	640*480	1920*1035	644*483	1280*720
Dot clock frequency (MHz)	29.687	24.39	74.25	24.37	74.25
H frequency (kHz)	31.389	31.47	33.75	31.469	45.000
V frequency (Hz)	50	59.9	60	59.94	60
H total (uS)	31.933	31.775	29.63	31.777	22.222
(dots)	948	775	2200	774	1650
H display period (uS	25.87	26.24	25.86	26.427	17.239
(dots)	768	640	1920	644	1280
H front porch (uS)	0.269	0.41	0.59	0.75	0.943
(dots)	8	10	44	18	70
H sync pulse width	2.526	2.46	0.59	2.35	1.077
(uS) (dots)	75	60	44	57	80
H back porch (uS)	3.267	2.665	2.59	2.25	2.963
(dots)	97	65	192	55	220
V total (mS)	19.911	16.522	16.666	16.683	16.667
(line)	625	525	562.5	525	750
V display period (mS)	18.35	15.106	15.348	15.348	16
(line)	576	480	517/518	483	720
V front porch (mS)	0.223	0.252	0.163/0.148	0.191	0.111
(line)	7	8	5.5/5	6	5
V sync pulse width	0.223	0.22	0.148	0.191	0.111
(mS)(line)	7	7	5	6	5
V back porch (mS)	1.115	0.944	1.037/1.022	0.953	0.444
(line)	35	30	35/34.5	30	20
H sync polarity	Neg	Neg	Neg	Neg	Neg
V sync polarity	Neg	Neg	Neg	Neg	Neg
Scan type	Non Interlaced	Non Interlaced	Non Interlaced	Non Interlaced	Non Interlaced
Remarks					

PC mode	36	37	38	39	40
Signal name	HDTV-W			MAC@21"	VESA
					1024@85Hz
Definition	1920*1080			1152*870	1280*1024
Dot clock frequency (MHz)	74.25			100	157.5
H frequency (kHz)	33.75			68.681	91.146
V frequency (Hz)	60			75.062	85.024
H total (uS)	29.630			14.560	10.971
(dots)	2200			1456	1728
H display period (uS)	25.859			11.520	8.127
(dots)	1920			1152	1280
H front porch (uS)	0.593			0.320	0.406
(dots)	44			32	64
H sync pulse width (uS)	1.185		NOT USED	1.280	1.016
(dots)	88			128	160
H back porch (uS)	1.993	NOT USED		1.440	1.422
(dots)	148			144	224
V total (mS)	16.666			13.322	11.761
(line)	562.5			915	1072
V display period (mS)	16.000			12.667	11.235
(line)	540			870	1024
V front porch (mS)	0.074/0.059			0.044	0.011
(line)	2.5/2			3	1
V sync pulse width (mS)	0.148			0.044	0.033
(line)	5			3	3
V back porch (mS)	0.444/0.459			0.568	0.483
(line)	15/15.5			39	44
H sync polarity	Neg			Sync on G	Pos.
V sync polarity	Neg			Sync on G	Pos.
Scan type	Interlaced			Non Interlaced	Non Interlaced
Remarks					

PC mode	41	42	43	44	45
Signal name	I/O data				
3	480@100Hz	480@120Hz	600@100Hz	600@120Hz	768@100Hz
Definition	640*480	640*480	800*600	800*600	1024*768
Dot clock frequency	42.506	51.008	66.022	79.942	111.987
(MHz)					
H frequency (kHz)	51.089	61.307	62.998	75.703	80.451
V frequency (Hz)	100.370	120.440	99.838	119.97	100.56
H total (uS)	19.573	16.311	15.873	13.209	12.43
(dots)	832	832	1048	1056	1392
H display period (uS)	15.057	12.574	12.117	10.007	9.144
(dots)	640	640	800	800	1024
H front porch (uS)	1.506	1.255	0.606	0.300	0.214
(dots)	64	64	40	24	24
H sync pulse width (uS)	1.317	1.098	0.969	1.001	0.786
(dots)	56	56	64	80	88
H back porch (uS)	1.694	1.412	2.181	1.901	2.286
(dots)	72	72	144	152	256
V total (mS)	9.963	8.302	10.016	8.335	9.944
(line)	509	509	631	631	800
V display period (mS)	9.395	7.829	9.524	7.926	9.546
(line)	480	480	600	600	768
V front porch (mS)	0.020	0.016	0.016	0.013	0.012
(line)	1	1	1	1	1
V sync pulse width (mS)	0.059	0.049	0.048	0.04	0.037
(line)	3	3	3	3	3
V back porch (mS)	0.489	0.408	0.429	0.357	0.348
(line)	25	25	27	27	28
H sync polarity	Neg	Neg	Pos.	Pos.	Neg
V sync polarity	Neg	Neg	Pos.	Pos.	Neg
Scan type	Non Interlaced				
Remarks					

PC mode	46	47	48	49	50
Signal name	I/O data	I/O data	EWS	RCA-STB	DTV(570P)
	768@120Hz	1024@100Hz	4800@71Hz	1080A	
Definition	1024*768	1280*1024	1280*1024	1920*1034	768*576
Dot clock frequency (MHz)	132.953	190.908	125	81	29.538
H frequency (kHz)	95.512	108.47	75.12	33.75	31.25
V frequency (Hz)	119.39	100.06	71.204	60	50
H total (uS)	10.47	9.219	13.312	29.630	31.993
(dots)	1392	1760	1664	2400	945
H display period (uS)	7.702	6.7	10.24	23.7	26
(dots)	1024	1280	1280	1920	768
H front porch (uS)	0.181	0.545	0.256	0.59	0.745
(dots)	24	104	32	48	22
H sync pulse width (uS)	0.662	0.75	1.024	3.56	2.35
(dots)	88	143	128	288	69
H back porch (uS)	1.925	1.22	1.792	1.78	2.9
(dots)	256	233	224	144	86
V total (mS)	8.376	9.994	14.044	16.652	20
(line)	800	1084	1055	562	625
V display period (mS)	8.041	9.44	13.631	15.319	18.432
(line)	768	1024	1024	517	576
V front porch (mS)	0.010	0.01	0.04	0.059	0.16
(line)	1	1	3	2	5
V sync pulse width (mS)	0.031	0.03	0.04	0.089	0.16
(line)	3	3	3	3	5
V back porch (mS)	0.293	0.52	0.333	1.185	1.248
(line)	28	56	25	40	39
H sync polarity	Neg	Pos.	Neg	Pos.	Neg
V sync polarity	Neg	Pos.	Neg	Pos.	Neg
Scan type	Non Interlaced	Non Interlaced	Non Interlaced	Interlaced	Non Interlaced
Remarks					

PC mode	51	52	53	54	55
Signal name	VESA	I/O data	I/O wide	VESA	VESA
	864@75Hz	W XGA@56Hz	XGA	1200@60Hz	1200@65Hz
Definition	1152*864	1280*768	1376*768	1600*1200	1600*1200
Dot clock frequency (MHz)		76.064	87.34	162	175.5
H frequency (kHz)	67.5	45.064	48.307	75	81.25
V frequency (Hz)	75	56.187	59.934	60	65
H total (uS)	14.815	22.192	20.701	13.333	12.308
(dots)	1600	1688	1808	2160	2160
H display period (uS)	10.667	16.828	15.755	9.877	9.117
(dots)	1152	1280	1376	1600	1600
H front porch (uS)	0.593	0.631	0.366	0.395	0.365
(dots)	64	48	32	64	64
H sync pulse width (uS)	1.185	1.472	1.466	1.185	1.094
(dots)	128	112	128	192	192
H back porch (uS)	2.37	3.26	3.114	1.877	1.732
(dots)	256	248	272	304	304
V total (mS)	13.333	17.78	16.685	16.667	15.385
(line)	900	802	806	1250	1250
V display period (mS)	12.8	17.043	15.898	16	14.769
(line)	864	768	768	1200	1200
V front porch (mS)	0.015	0.044	0.062	0.013	0.012
(line)	1	2	3	1	1
V sync pulse width (mS)	0.044	0.067	0.124	0.04	0.037
(line)	3	3	6	3	3
V back porch (mS)	0.474	0.644	0.6	0.613	0.566
(line)	32	29	29	46	46
H sync polarity	Pos.	Pos.	Neg	Pos.	Pos.
V sync polarity	Pos.	Pos.	Pos.	Pos.	Pos.
Scan type	Non Interlaced				
Remarks					

PC mode	56	57	58	59	60
Signal name	VESA	VESA	VESA	HP	SUN
	1200@70Hz	1200@75Hz	1200@85Hz	1024@72Hz	900@66Hz
Definition	1600*1200	1600*1200	1600*1200	1280*1024	1152*900
Dot clock frequency (MHz)	189	202.5	229.5	135	92.941
H frequency (kHz)	87.5	93.75	106.25	78.130	61.796
V frequency (Hz)	70	75	85	72.009	65.95
H total (uS)	11.429	10.667	9.412	12.8	16.182
(dots)	2160	2160	2160	1728	1504
H display period (uS)	8.466	7.901	6.972	9.481	12.395
(dots)	1600	1600	1600	1280	1152
H front porch (uS)	0.339	0.316	0.279	0.474	0.312
(dots)	64	64	64	64	29
H sync pulse width (uS)	1.016	0.948	0.837	1.442	1.377
(dots)	192	192	192	192	128
H back porch (uS)	1.608	1.501	1.325	1.442	2.098
(dots)	304	304	304	192	195
V total (mS)	14.286	13.333	11.765	13.887	15.163
(line)	1250	1250	1250	1085	937
V display period (mS)	13.714	12.8	11.294	13.107	14.564
(line)	1200	1200	1200	1024	900
V front porch (mS)	0.011	0.011	0.009	0.038	0.032
(line)	1	1	1	3	2
V sync pulse width (mS)	0.034	0.032	0.028	0.038	0.065
(line)	3	3	3	3	4
V back porch (mS)	0.526	0.491	0.433	0.704	0.502
(line)	46	46	46	55	31
H sync polarity	Pos.	Pos.	Pos.	SOG.	Csync
V sync polarity	Pos.	Pos.	Pos.	SOG.	Csync
Scan type	Non Interlaced				
Remarks					

PC mode	61	62	63	64	65
Signal name	SUN	SGI	VESA	VESA	VESA
3	900@76Hz	768@60Hz	960@60Hz	960@60Hz	1050@60Hz
Definition	1152*900	1024*768	1280*960	1280*960	1400*1050
Dot clock frequency (MHz)	105.561	70	108	148.5	108
H frequency (kHz)	71.710	49.716	60	85.938	63.981
V frequency (Hz)	76.047	60.043	60	85.002	60.020
H total (uS)	13.945	20.114	16.667	11.636	15.630
(dots)	1472	1408	1800	1728	1688
H display period (uS)	10.913	14.629	11.852	8.62	12.963
(dots)	1152	1024	1280	1280	1400
H front porch (uS)	0.152	2.057	0.889	0.431	0.444
(dots)	16	144	96	64	48
H sync pulse width (uS)	0.909	1.371	1.037	1.077	1.037
(dots)	96	96	112	160	112
H back porch (uS)	1.97	2.507	2.889	1.508	1.185
(dots)	208	144	312	224	128
V total (mS)	13.15	16.655	16.667	11.764	16.661
(line)	943	828	1000	1011	1066
V display period (mS)	12.55	15.448	16	11.171	16.411
(line)	900	768	960	960	1050
V front porch (mS)	0.028	0.443	0.017	0.012	0.016
(line)	2	22	1	1	1
V sync pulse width (mS)	0.112	0.06	0.05	0.035	0.047
(line)	8	3	3	3	3
V back porch (mS)	0.460	0.704	0.6	0.547	0.188
(line)	33	35	36	47	12
H sync polarity	Csync	SOG.	Pos.	Pos.	Neg
V sync polarity	Csync	SOG.	Pos.	Pos.	Neg
Scan type	Non Interlaced				
Remarks					

PC mode
Signal name
Definition
Dot clock frequency (MHz)
H frequency (kHz)
V frequency (Hz)
H total (uS)
(dots)
H display period (uS)
(dots)
H front porch (uS)
(dots)
H sync pulse width (uS)
(dots)
H back porch (uS)
(dots)
V total (mS)
(line)
V display period (mS)
(line)
V front porch (mS)
(line)
V sync pulse width (mS)
(line)
V back porch (mS)
(line)
H sync polarity
V sync polarity
Scan type
Remarks

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PC mode	75	80	81	82	83
Signal name	10801	W_XGA		400H	350H
	50Hz				
Definition	1920*1080	1280*768		720*400	720*350
Dot clock frequency (MHz)	74.25	81.0		28.3	28.3
H frequency (kHz)	28.125	47.99		31.5	31.5
V frequency (Hz)	50	59.34		70.1	70.1
H total (uS)	35.556	20.84		31.78	31.78
(dots)	2640	1688		900	900
H display period (uS)	25.859	15.80		25.42	25.42
(dots)	1920	1280		720	720
H front porch (uS)	6.519	0.593		0.636	0.636
(dots)	484	48		18	18
H sync pulse width (uS)	1.185	1.38		3.81	3.81
(dots)	88	112		108	108
H back porch (uS)	1.993	3.06	NOT USED	1.91	1.91
(dots)	148	248		54	54
V total (mS)	10	16.713		14.269	14.269
(line)	562.5	802		449	449
V display period (mS)	9.6	16.005		12.712	11.123
(line)	540	768		400	350
V front porch (mS)	0.074/0.059	0.063		0.424	1.307
(line)	2.5/2	3		12	37
V sync pulse width (mS)	0.148	0.125		0.064	0.064
(line)	5	6		2	2
V back porch (mS)	0.444/0.459	0.521		1.112	1.907
(line)	15/15.5	25		35	60
H sync polarity	Neg.	Pos.		Neg.	Pos.
V sync polarity	Neg.	Neg.		Pos.	Neg.
Scan type	Interlaced	Non Interlaced		Non Interlaced	Non Interlaced
Remarks					

PC mode	84	85	86	87	88
Signal name	720P	1080P	720P	10801	
	24Hz	24Hz	50Hz	48Hz	
Definition	1280*720	1920*1080	1280*720	1920*1080	
Dot clock frequency (MHz)	74.176	74.176	74.25	74.1758	
H frequency (kHz)	17.982	26.973	37.5	26.973	
V frequency (Hz)	23.976	23.976	50	37.074	
H total (uS)	55.611	37.704	26.667	37.074	
(dots)	4125	2750	1980	2750	
H display period (uS)	17.256	25.884	17.239	25.884	
(dots)	1280	1920	1280	1920	
H front porch (uS)	34.310	8.008	5.387	8.008	
(dots)	2545	594	400	594	
H sync pulse width (uS)	1.078	1.078	1.078	1.078	
(dots)	80	88	80	88	
H back porch (uS)	2.256	1.995	2.963	1.995	NOT USED
(dots)	220	148	220	148	
V total (mS)	41.706	41.708	20	20.855	
(line)	750	1125	750	1125	
V display period (mS)	40.040	40.040	19.2	20.020	
(line)	720	1080	720	1080	
V front porch (mS)	0.278	0.148	0.133	0.093	
(line)	5	4	5	5	
V sync pulse width (mS)	0.278	0.185	0.133	0.185	
(line)	5	5	5	10	
V back porch (mS)	1.112	1.335	0.533	0.556	
(line)	20	36	20	30	
H sync polarity	Neg	Neg	Neg	Neg	
V sync polarity	Neg	Neg	Neg	Neg	
Scan type	Non Interlaced	Non Interlaced	Non Interlaced	Interlaced	
Remarks					

PC mode	89	90	91	92	93
Signal name		480i(60Hz)	DTV(480P)	DTV(480P)	DTV(720P)
Definition		720*480	640*480	720*480	1280*720
Dot clock frequency (MHz)		27.000	25.175	27.000	74.250
H frequency (kHz)		15.734	31.469	31.469	45.000
V frequency (Hz)		59.94	59.940	59.94	60.000
H total (uS)		16.555	31.777	31.777	22.222
(dots)		1716	800	858	1650
H display period (uS)		53.333	25.422	26.666	17.239
(dots)		1440	640	720	1280
H front porch (uS)		1.407	0.635	0.592	1.481
(dots)		38	16	16	110
H sync pulse width (uS)		4.593	3.813	2.296	0.538
(dots)		124	96	62	40
H back porch (uS)	NOT USED	4.222	1.906	2.222	2.963
(dots)	NOT USED	114	48	60	220
V total (mS)		16.635	16.683	19.444	10.101
(line)		262	525	525	750
V display period (mS)		15.253	15.253	15.253	16.000
(line)		240	480	480	720
V front porch (mS)		0.254	0.317	0.333	0.067
(line)		4	10	9	5
V sync pulse width (mS)		0.191	0.064	0.191	0.111
(line)		3	2	6	5
V back porch (mS)		0.953	1.049	0.953	0.444
(line)		15	33	30	20
H sync polarity		Neg	Neg	Neg	Pos
V sync polarity		Neg	Neg	Neg	Pos
Scan type		Interlaced	Non Interlaced	Non Interlaced	Non Interlaced
Remarks		HDCP*	HDCP	HDCP	HDCP

\*HDCP : High-bandwidth Digital Content Protection

PC mode	94	95	96	97	98		
Signal name	HDTV-W	-	-		<u>.                                      </u>		
Definition	1920*1080						
Dot clock frequency (MHz)	74.250						
H frequency (kHz)	33.750						
V frequency (Hz)	60.000						
H total (uS)	29.629						
(dots)	2200						
H display period (uS)	25.859						
(dots)	1920						
H front porch (uS)	1.185						
(dots)	88						
H sync pulse width (uS)	0.592						
(dots)	44						
H back porch (uS)	1.993		NOT US	SED			
(dots)	148						
V total (mS)	7.582						
(line)	563						
V display period (mS)	16.000						
(line)	540						
V front porch (mS)	0.040						
(line)	3						
V sync pulse width (mS)	0.148						
(line)	5						
V back porch (mS)	0.444						
(line)	15						
H sync polarity	Pos						
V sync polarity	Pos						
Scan type	Interlaced						
Remarks	HDCP						

\*HDCP : High-bandwidth Digital Content Protection

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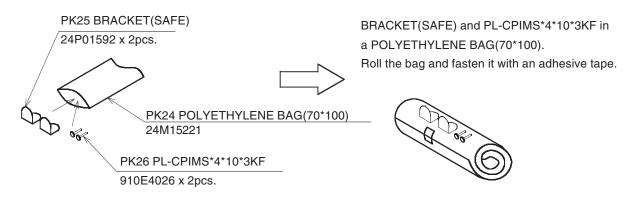
PD-5065

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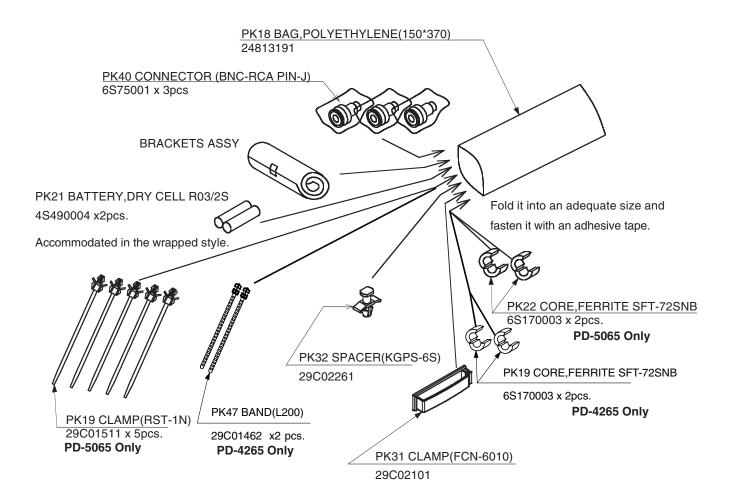
# 4. EXPLODED VIEWS AND PARTS LIST

## 4.1 PACKING

## A) BRACKETS ASSY

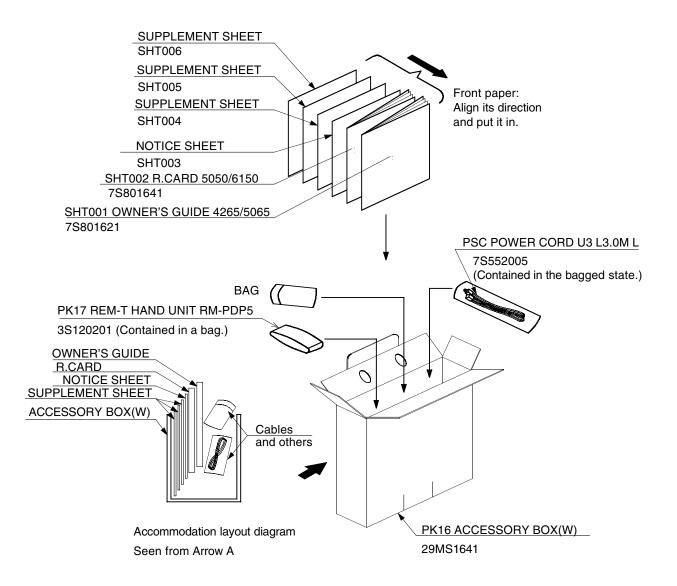


## **B) ACCESSORYS ASSY**



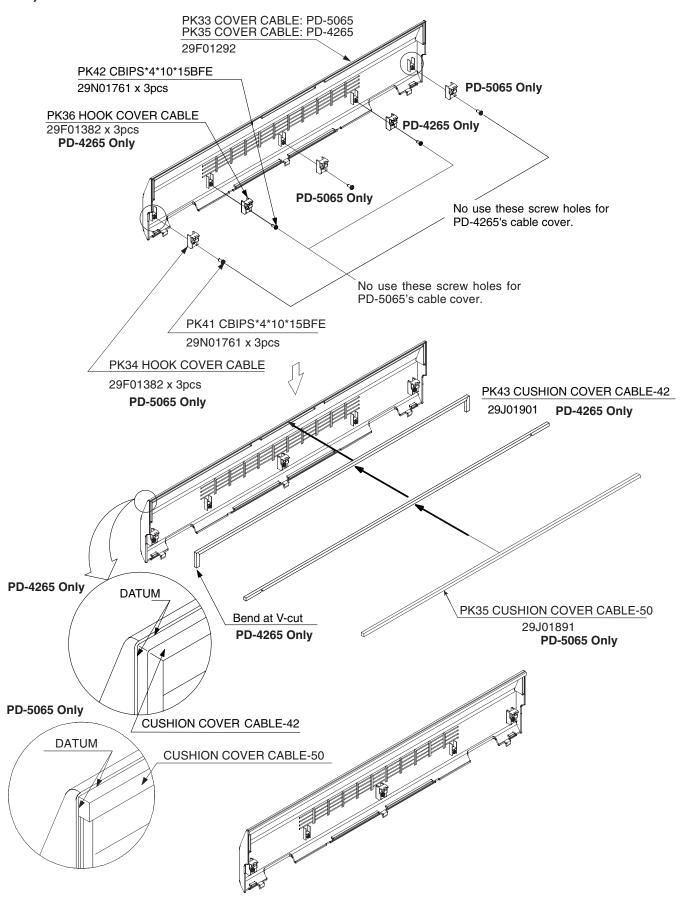
PD-5065

# C) ACCESSORY BOX (W)



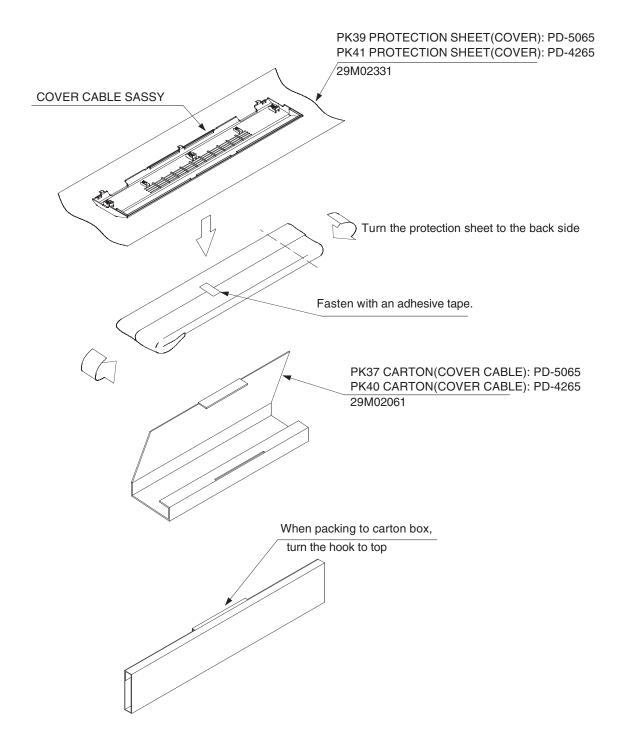
Name Titled	Circuit Symbol	Material Name	Material Code	Quantity Needed
POWER CORD	PSC	POWER CORD E3 L3.0M L		1
OWNER'S GUIDE	SHT001	OWNER'S GUIDE 4265/5065		1
RESISTORATION	SHT002	R.CARD 5050/6150		1
NOTICE SHEET	SHT003	Nil	Nil	Nil
CLIDDI EMENT	SHT004	Nil	Nil	Nil
SUPPLEMENT	SHT005	Nil	Nil	Nil
SHEET	SHT006	Nil	Nil	Nil

## D) COVER CABLES ASSY



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# E) PACKING OF COVER CABLES ASSY



### F) SPACER, PILLAR, CARTON BOX PK11 CARTON BOX T(PD-5065) 29M01791 PK16 CARTON BOX T(PD-4265) 29M01831 FRONT The plane with the "front" indication shall be made to coincide with PK13 PILLAR T(PD-5065) the monitor front. 29M01811 4 PK39 PILLAR T(PD-4265) PK07 CUSHON TR(PD-5065) 29M01851 29M01881 PK10 CUSHON TR(PD-4265) PK06 CUSHON TL(PD-5065) 29M01921 29M01871 PK09 CUSHON TL(PD-4265) 29M01911 PK04 PROTECTION SHEET 29M00231 PK46 PROTECTION SHEET(PD-4265) 29M02651 ACCESSORY BOX(W) 29MS1641 **COVER CABLE ASSY PK45 SPEKER CUSHION** 29M02441 \*2pcs. PD-4265 Only PK04 PROTECTION SHEET(COVER) 29M02331 \*2pcs. **PD-5065 Only** PK09 CUSHON BR(PD-5065) PK12 PILLAR S(PD-5065) 29M01901 29M01821 PK12 CUSHON BR(PD-4265) PK38 PILLAR S(PD-4265) 29M01941 29M01861 PK08 CUSHON BL(PD-5065) 29M01891 PK11 CUSHON BL(PD-4265) 29M01931 PK14 CARTON BOX B(PD-5065) 29M01801 PK12 PILLAR S(PD-5065) PK14 CARTON BOX B(PD-4265) 29M01821 29M01841 PK38 PILLAR S(PD-4265) 29M01861

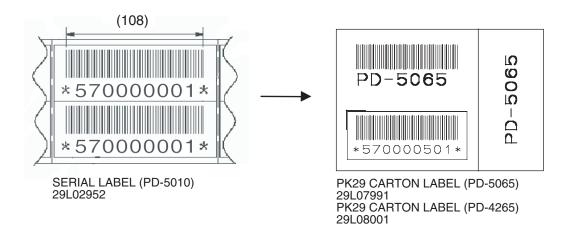
PROTECTION SHEET

**BACK SIDE** 

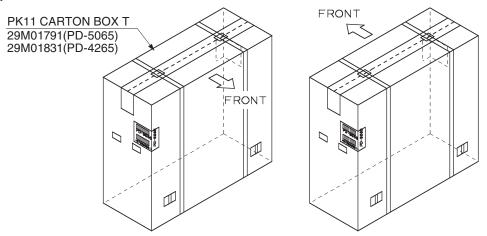
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## **G) BAR CODE SERIAL LABEL**

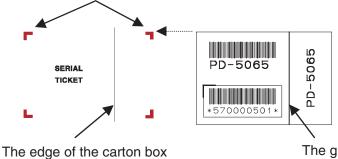
The required items shall be printed on the serial label (PD-5010) 29L02952 See 28.Contents SERIAL LABEL printout-1



## H) Adhesion of the CARTON LABEL



The upper marks of the carton box

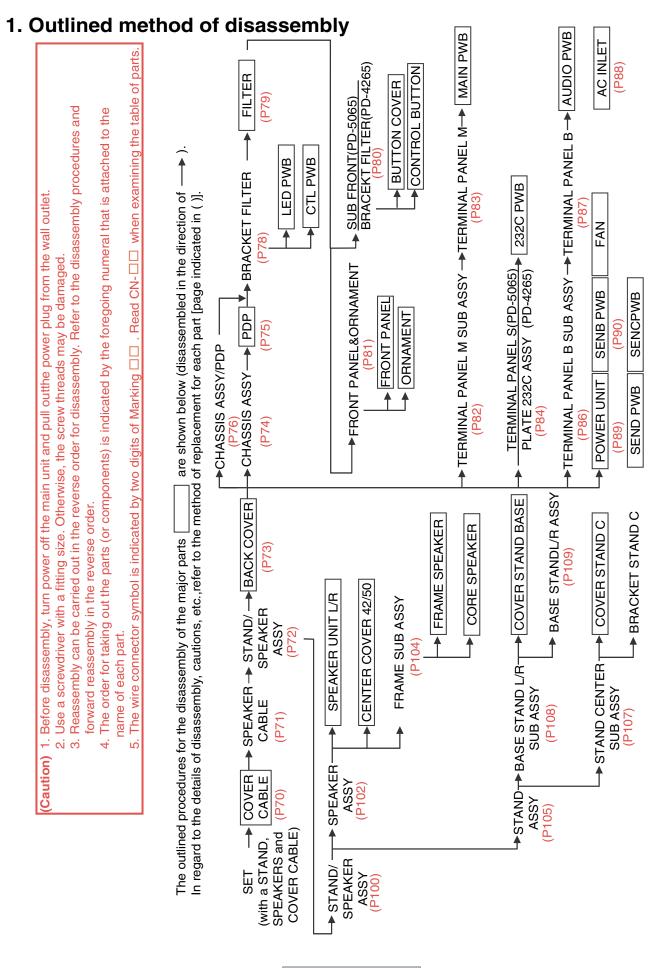


For vertical adjustment, the upper plane of the label shall be adjusted to the upper marks of the carton box.

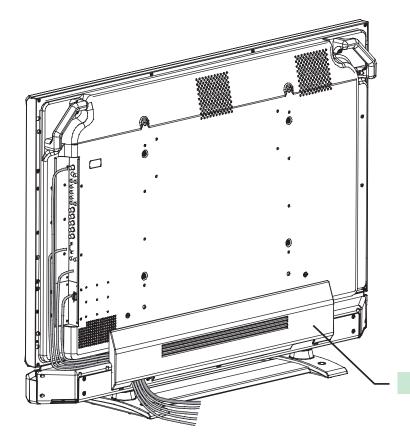
For horizontal adjustment, the guide line of the label shall be adjusted to the edge of the carton box.

The guide line of the label

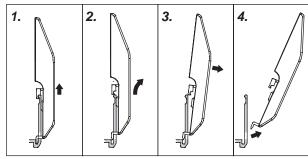
## 4.2 DISASSEMBLY



# 2.COVER CABLE



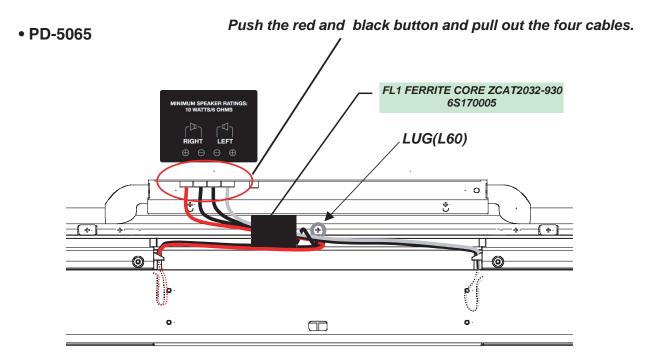
(1)COVER CABLE ASSY



To detach the COVER CABLE ASSY

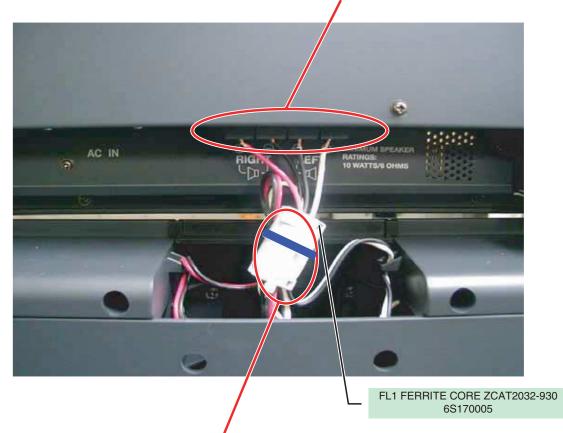
70 PD-5065

# 3.SPEAKER CABLE



• PD-4265

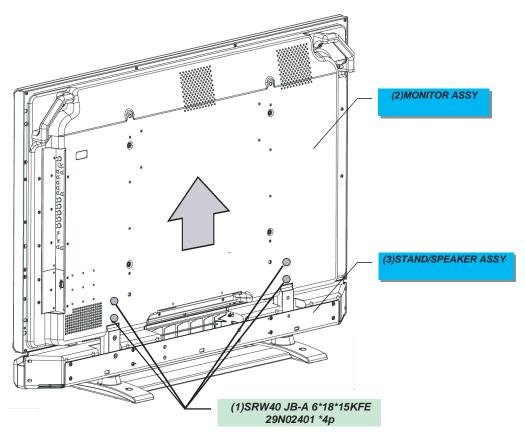
Push the red and black button and pull out the four cables.



Please remove the bundle band and remove the ferrite core.

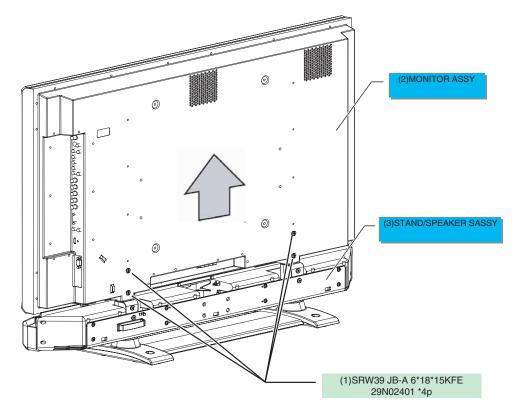
# **4.STAND / SPEAKER ASSY**

• PD-5065 Remove the four screws indicated and slide the monitor upper direction indicated by arrow.

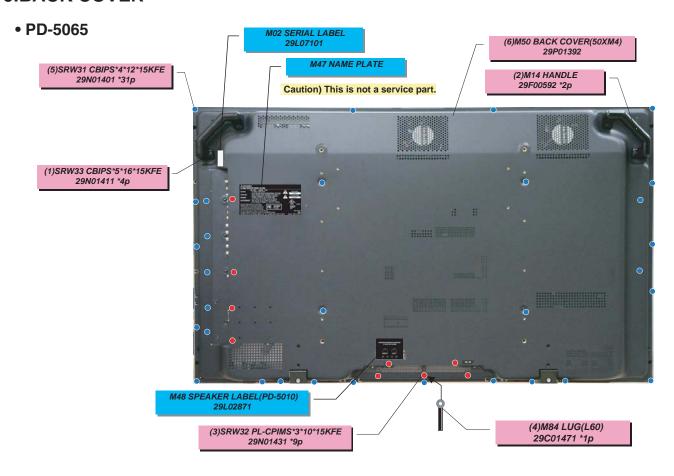


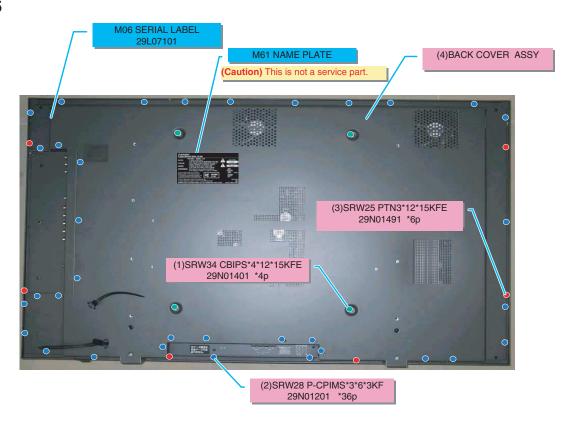
• PD-4265

Remove the four screws indicated and slide the monitor upper direction indicated by arrow.



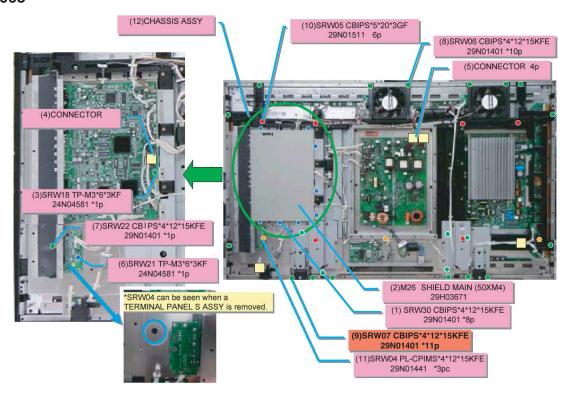
## **5.BACK COVER**

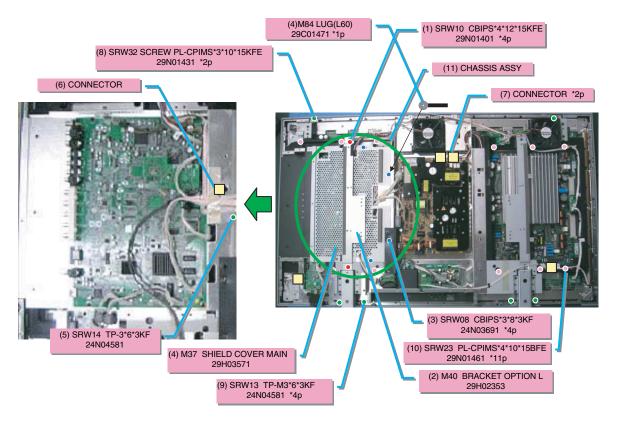




#### 6.CHASSIS ASSY

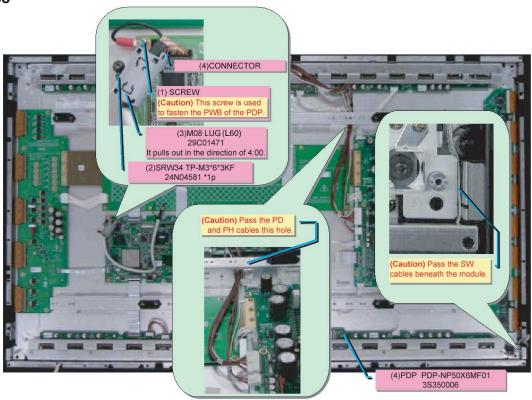
#### • PD-5065



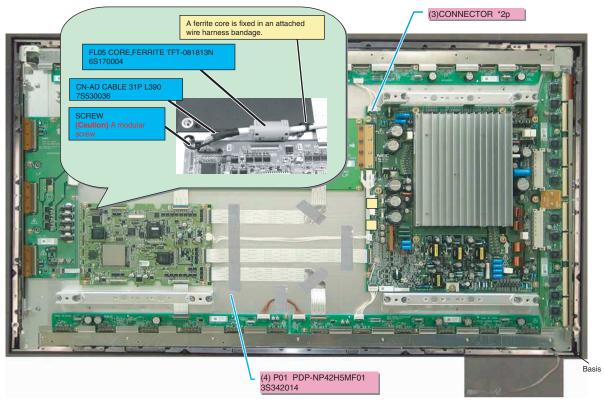


## 7.PDP

• PD-5065

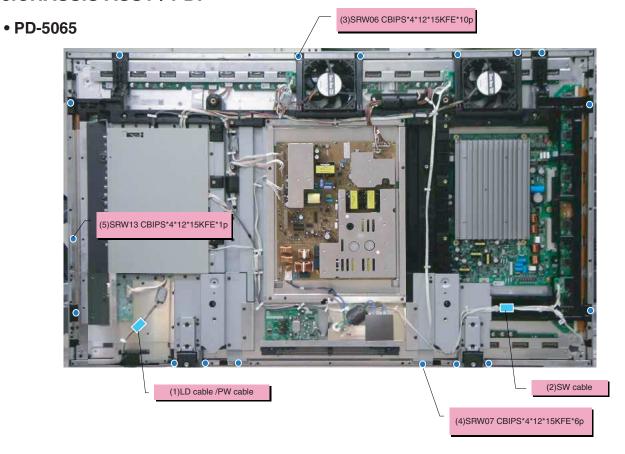


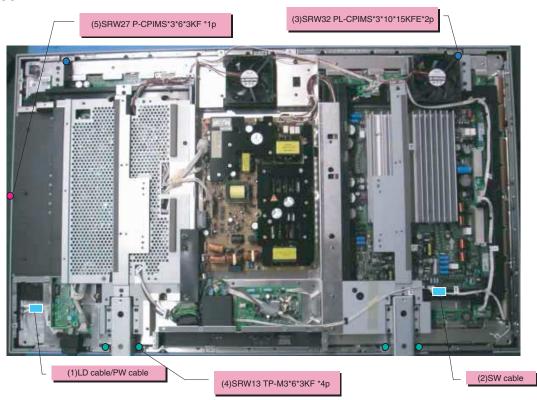
• PD-4265



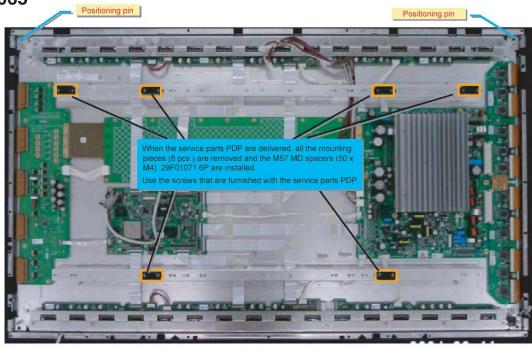
75

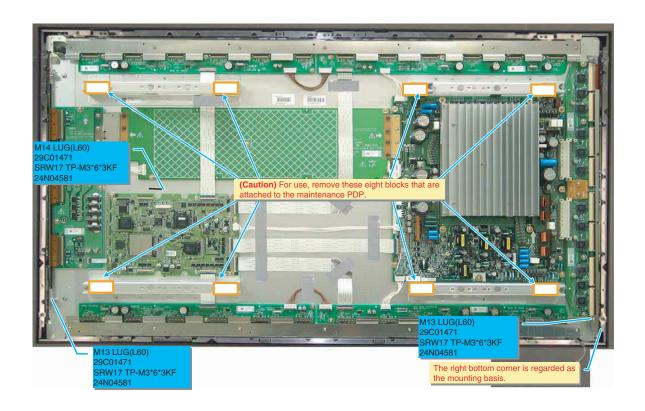
## **8.CHASSIS ASSY / PDP**





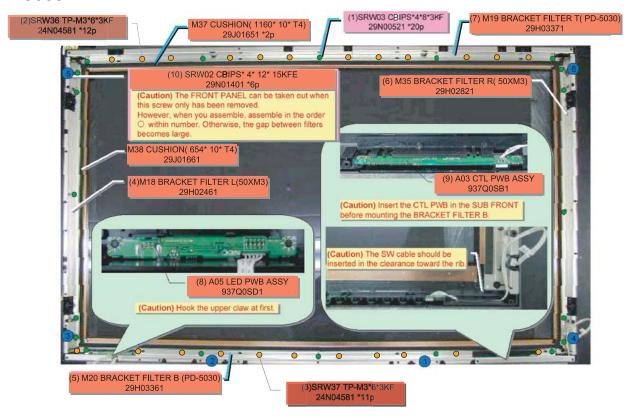
• PD-5065



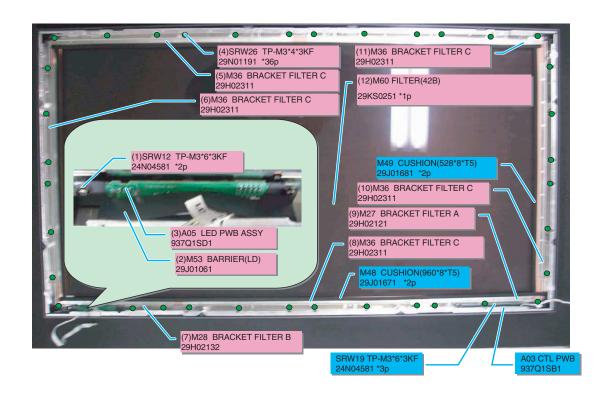


## 9.BRACKET FILTER

• PD-5065



#### **BRACKET FILTER**

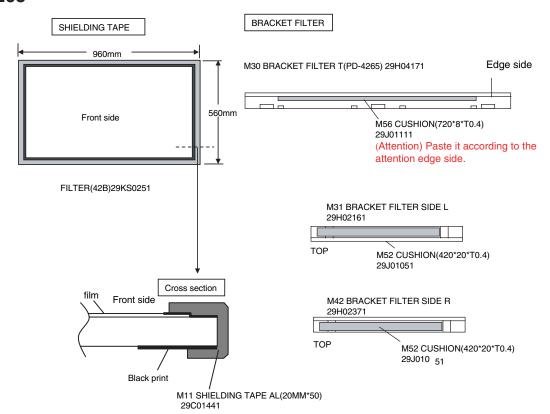


## 10. FILTER

## • PD-5065



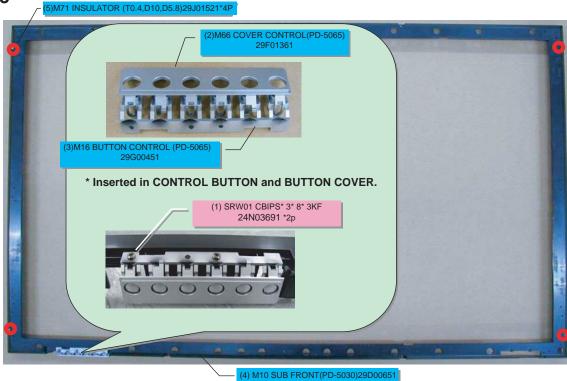
## • PD-4265



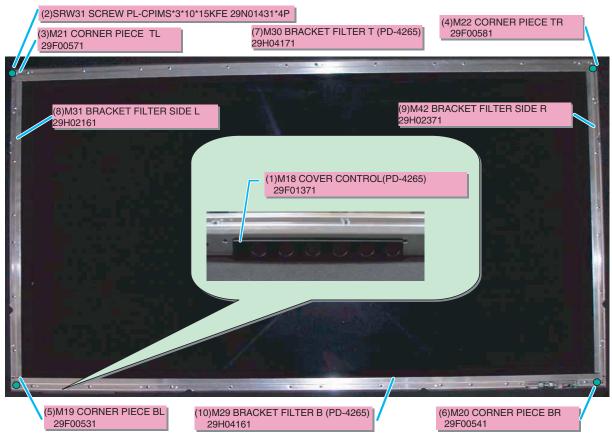
PD-5065 79

# 11. SUB FRONT / BRACKET FILTER SUB FRONT

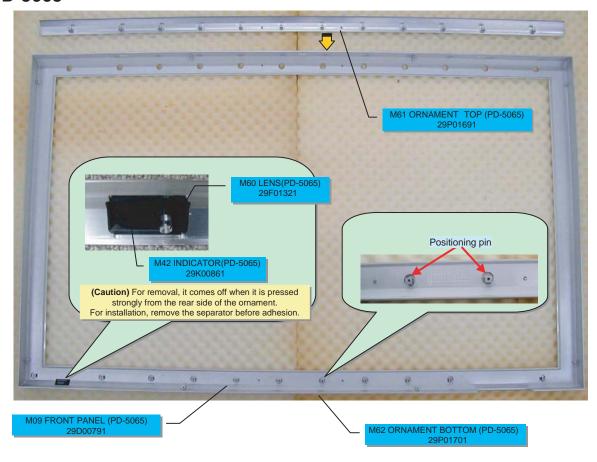
• PD-5065

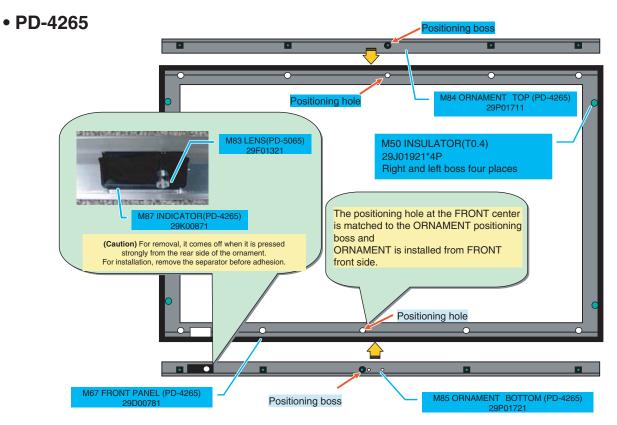


## **BRACKET FILTER**

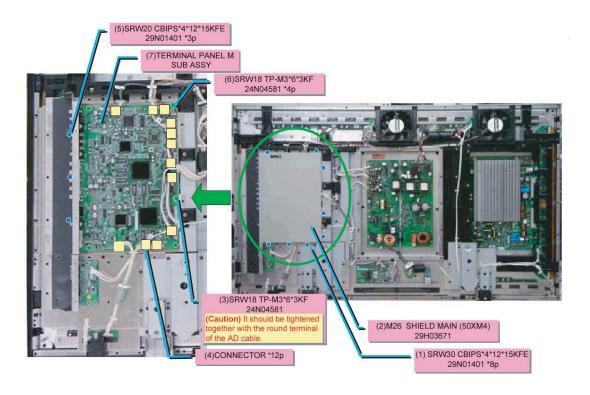


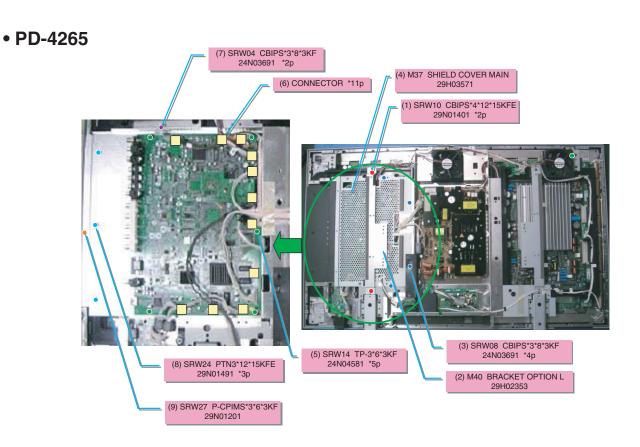
## 12. FRONT PANEL & ORNAMENT



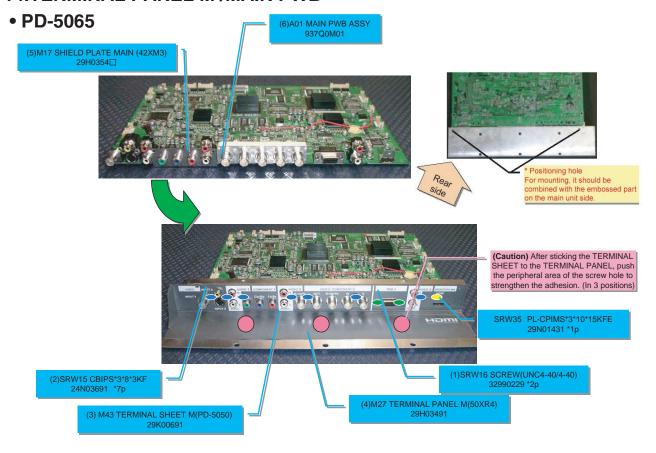


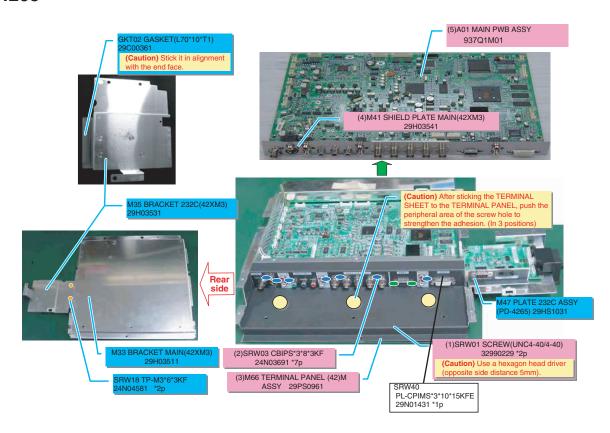
## 13.TERMINAL PANEL M SUB ASSY





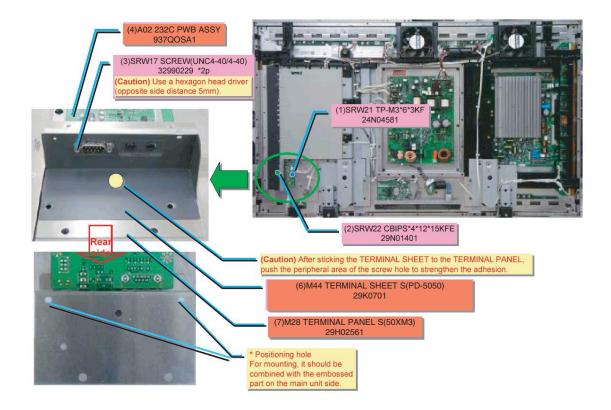
#### 14.TERMINAL PANEL M /MAIN PWB



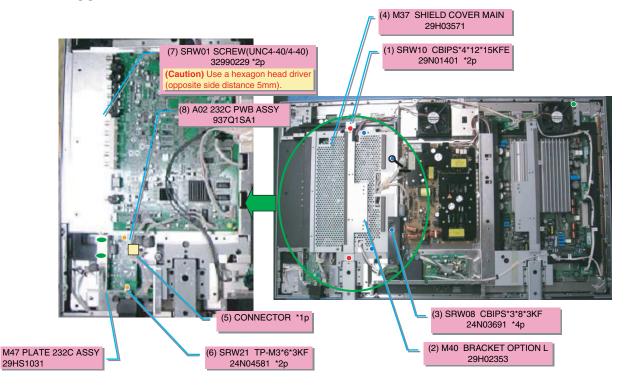


#### 15.TERMINAL PANEL S /232C PWB

#### • PD-5065

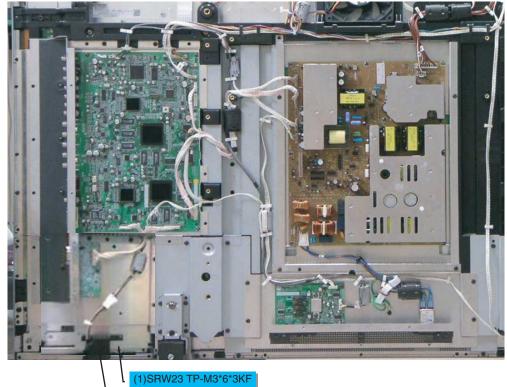


## PLATE 232C ASSY / 232C PWB



## **16.COVER PWR BUTTON**

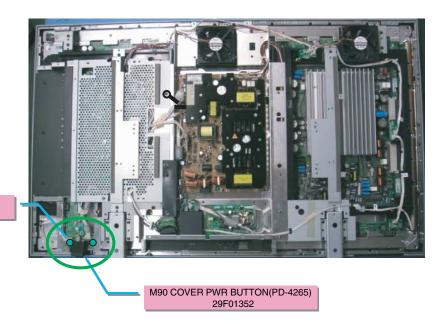
• PD-5065



(1)SRW23 TP-M3\*6\*3KF 24N04581 \*2p

(2)M13 COVER PWR BUTTON(PD-5065) 29F01341\*1p

• PD-4265



(1) SRW30 TP-M3\*6\*3KF 24N04581 \*2p

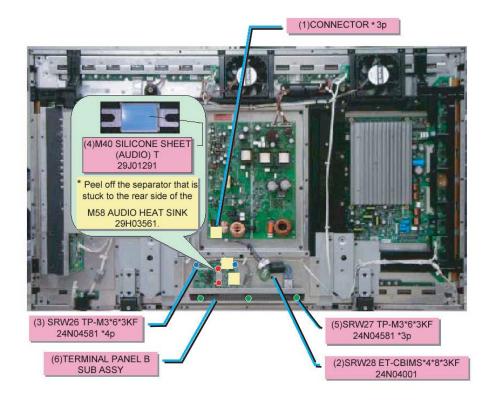
PD-5065 and PD-4265 don't have POWER PWB.

PD-5065

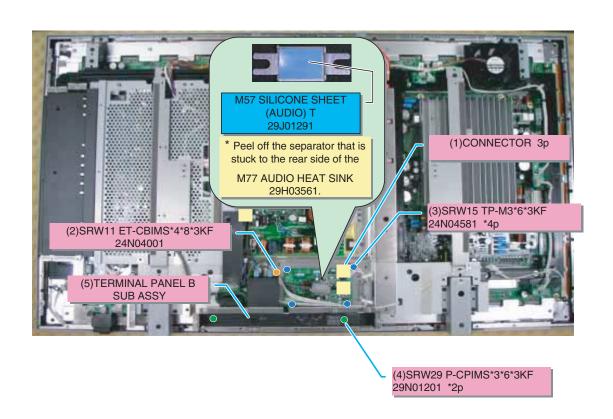
85

#### 17.TERMINAL PANEL B SUB ASSY

## • PD-5065



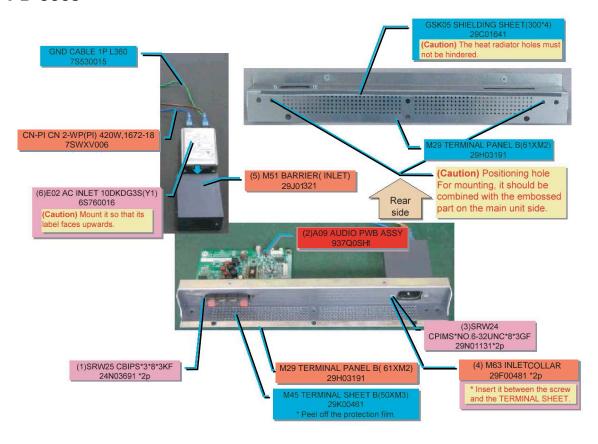
#### • PD-4265

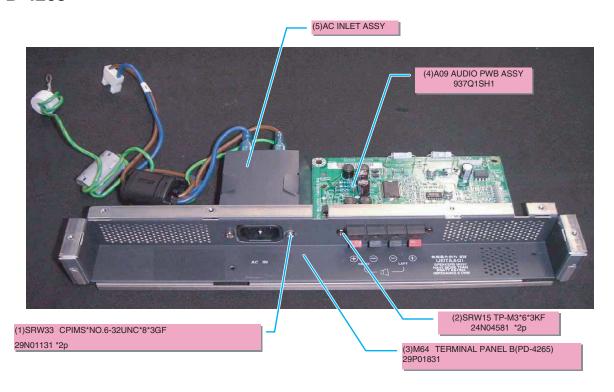


86

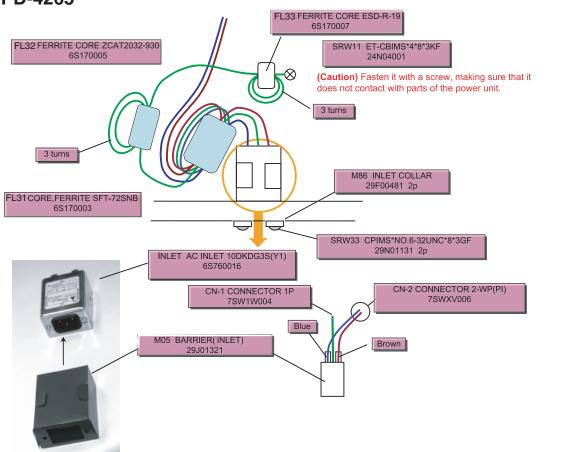
#### 18.TERMINAL PANEL B/ AUDIO PWB/ AC INLET

#### • PD-5065



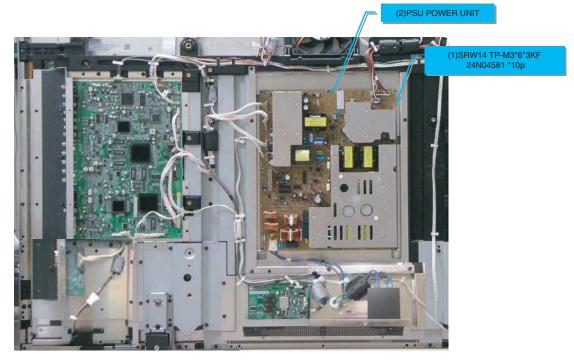


## 19.AC INLET **AC INLET** FL64 CORE,FERRITE SFT-72SNB 6S170003 • PD-5065 FL63 FERRITE CORE ESD-R-19 6S170007 2 turns SRW28 ET-CBIMS\*4\*8\*3KF M63 INLET COLLAR 24N04001 29F00481 2p (Caution) Fasten it with a screw, making sure that it does not contact with parts of the power unit. SRW24 CPIMS\*NO.6-32UNC\*8\*3GF 29N01131 2p INLET AC INLET 10DKDG3S(Y1) 6S760016 GND CABLE 1P L360 7S530015 CN-PI CONNECTOR 2-WP(PI) 7SWXV006 Blue M51 BARRIER(INLET) Brown 29J01321

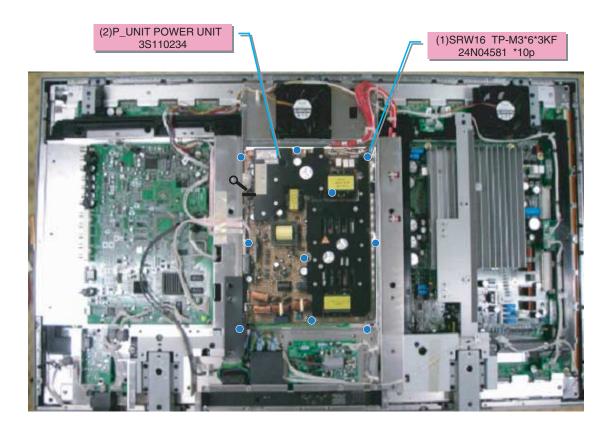


# **20.POWER UNIT**

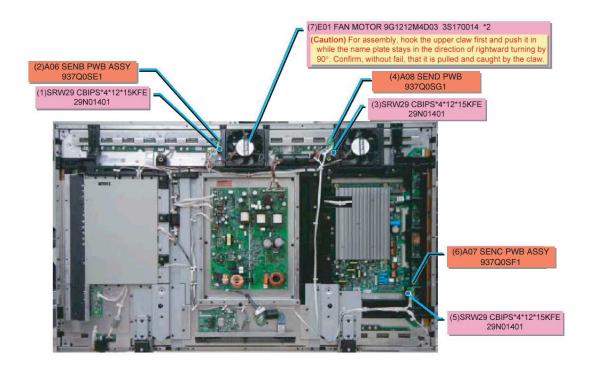
• PD-5065

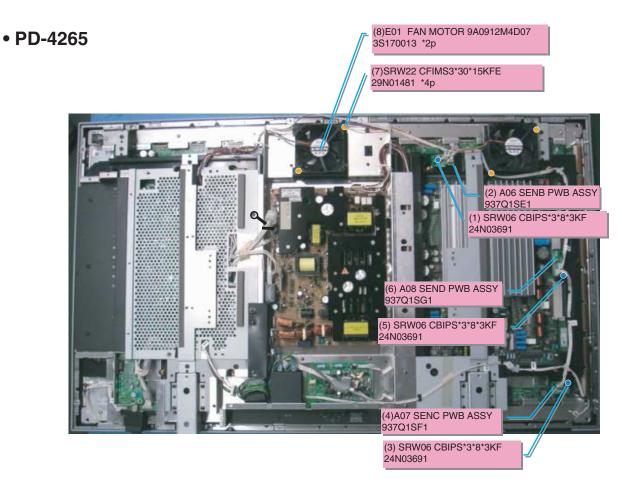


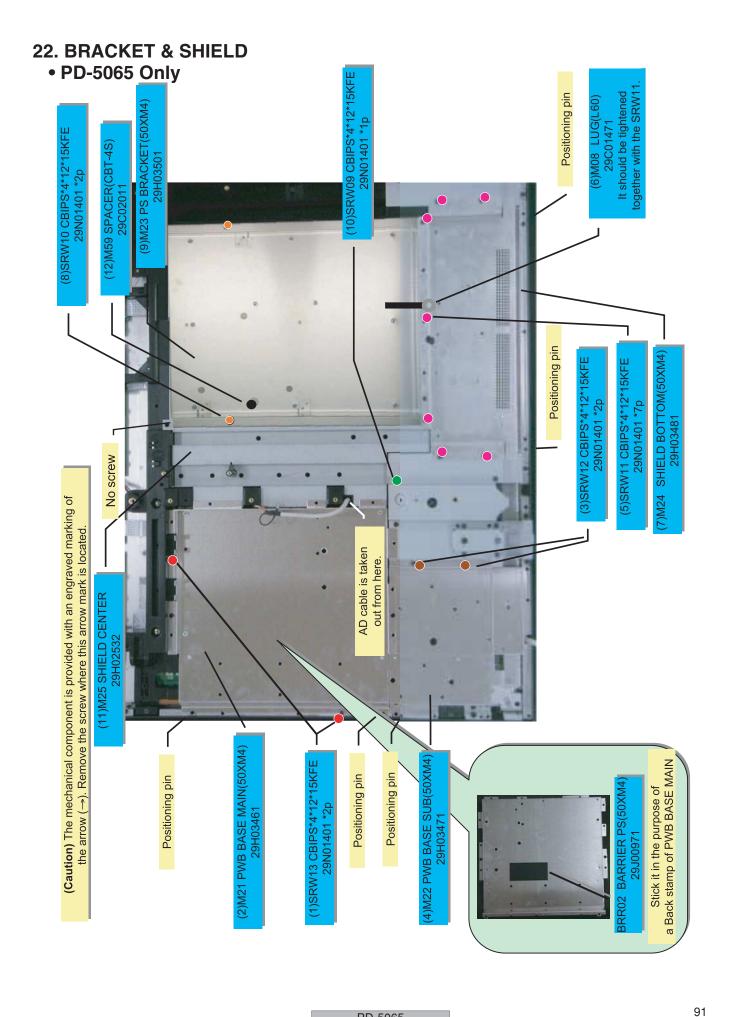
## • PD-4265



#### 21.SENB PWB/SENC PWB/SEND PWB/FAN

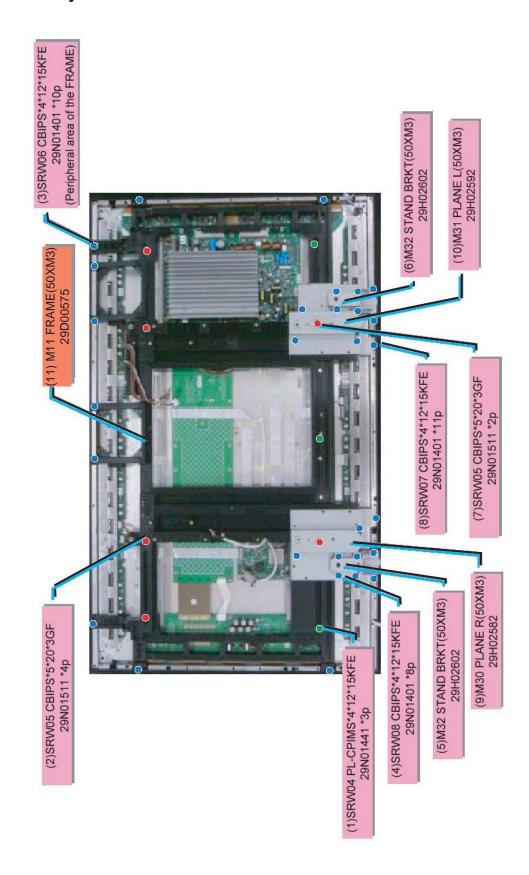






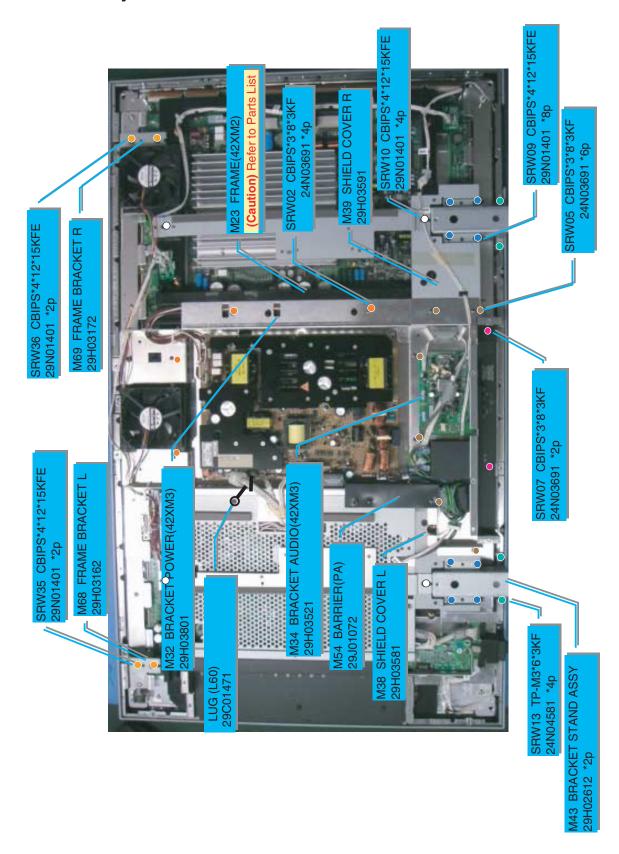
## **23.FRAME**

# • PD-5065 Only



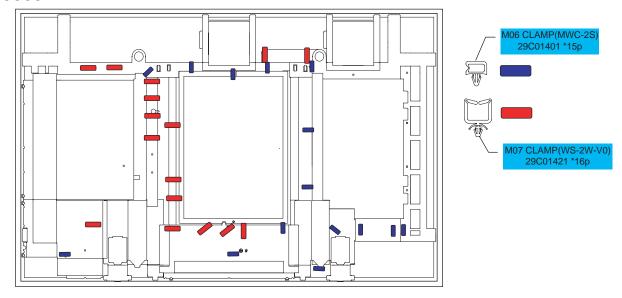
## 24. MISCELLANEOUS PARTS

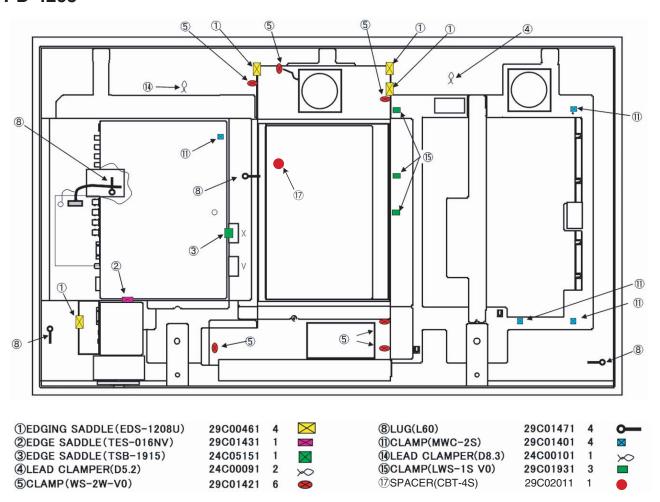
• PD-4265 Only



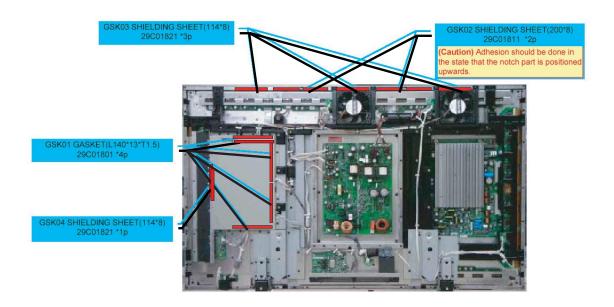
## 25.WIRE CLAMP

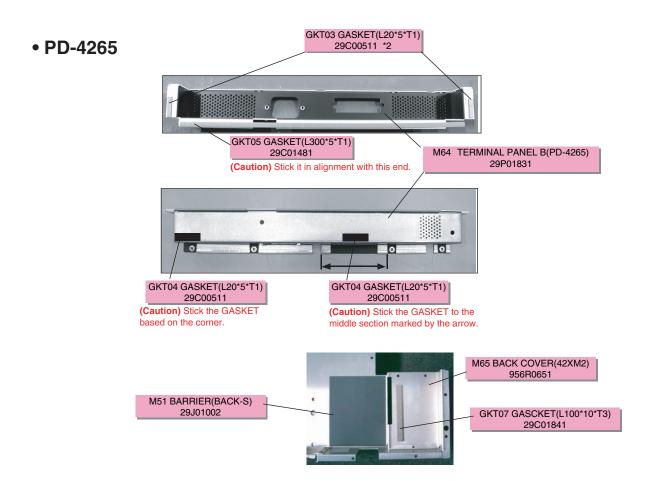
## • PD-5065





## **26.GASCKET**

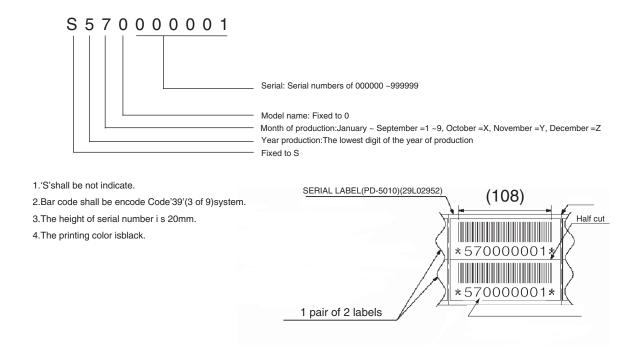




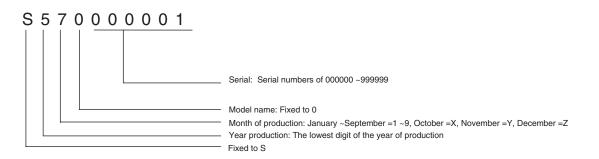
# 27. Contents SERIAL LABEL printout-1

#### • PD-5065

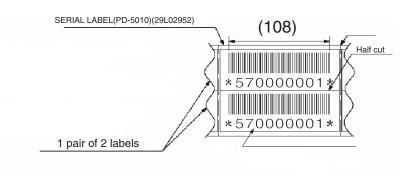
- \*The bar code shall be printed out at the upper stage.
- \*The serial number shall be printed out at the lower stage.
- The numbering system for the serial numbershall conform to the following:



- \*The bar code shall be printed out at the upper stage.
- \*The serial number shall be printed out at the lower stage.
- The numbering system for the serial number shall conform to the following:



- 1.'S' shall be not indicate.
- 2. Bar code shall be encode Code'39'(3 of 9) system.
- 3. The height of serial number is 20mm.
- 4. The printing color is black.

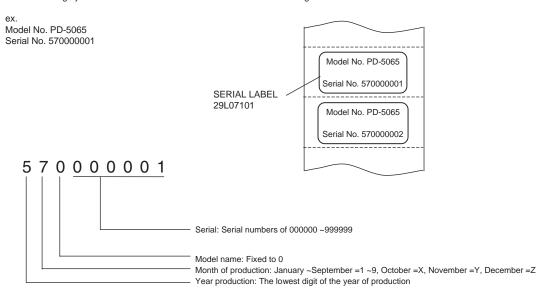


# 28. Contents SERIAL LABEL printout-2

#### • PD-5065

- \*The model name shall be printed out at the upper stage.
- \*The serial number shall be printed out at the lower stage.

The numbering system for the serial number shall conform to the following:

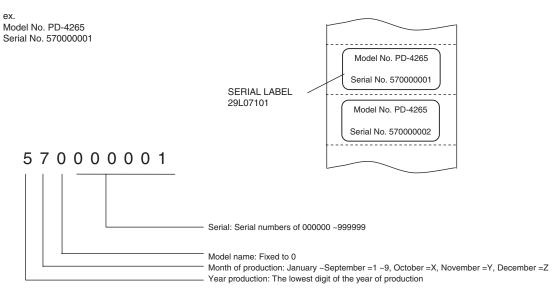


#### • PD-4265

\*The model name shall be printed out at the upper stage.

\*The serial number shall be printed out at the lower stage.

The numbering system for the serial number shall conform to the following:



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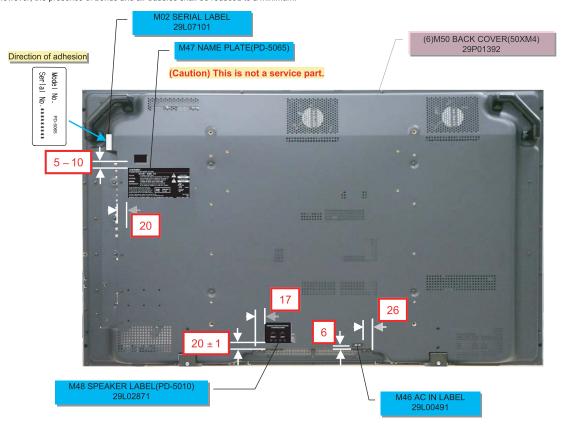
#### **29.LABELS**

#### • PD-5065

Stick the labels in the positions on the back cover illustrated below.

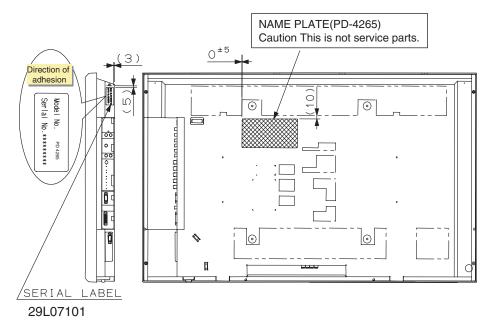
Dimensions indicated are approximate figures.

However, the presence of bends and air bubbles shall be reduced to a minimum.



#### • PD-4265

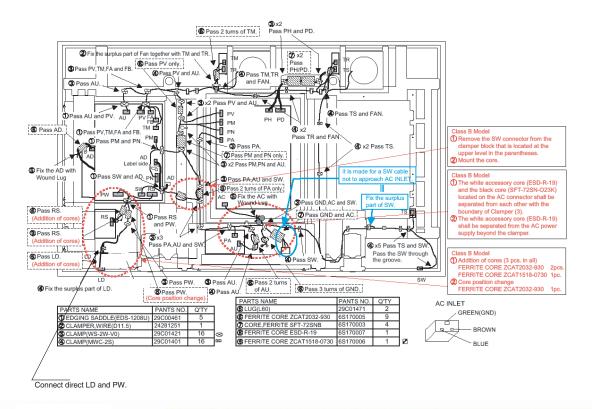
Stick the labels in the positions on the back cover illustrated below. Dimensions indicated are approximate figures. However, the presence of bends and air bubbles shall be reduced to a minimum.



#### 30.cable

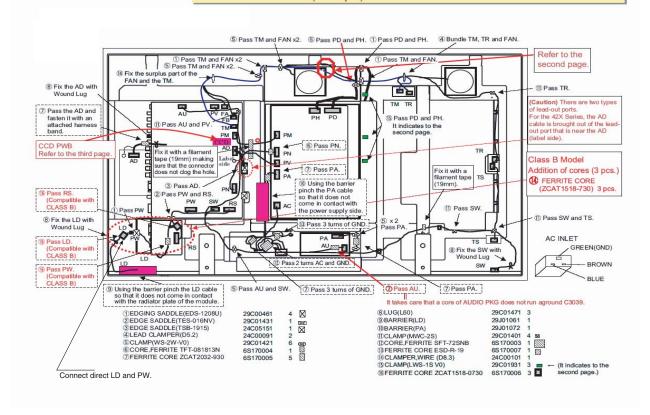
#### • PD-5065

(Caution) "Turns" in the illustration below denotes the number of cable turns to be wound around the ferrite core. (Example) 3 turns → 3 turns of a cable wound around.

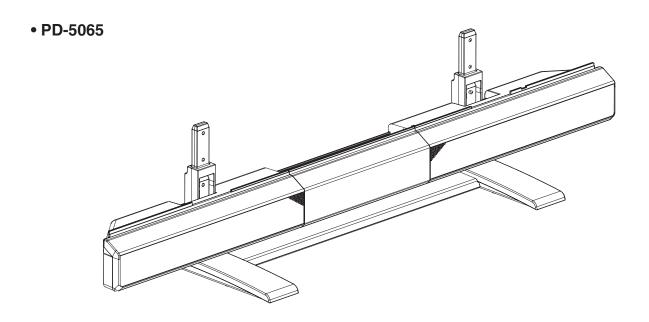


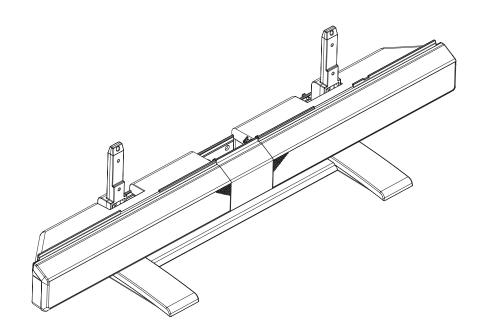
#### • PD-4265

(Caution) "Turns" in the illustration below denotes the number of cable turns to be wound around the ferrite core. (Example) 3 turns  $\rightarrow$  3 turns of a cable wound around.

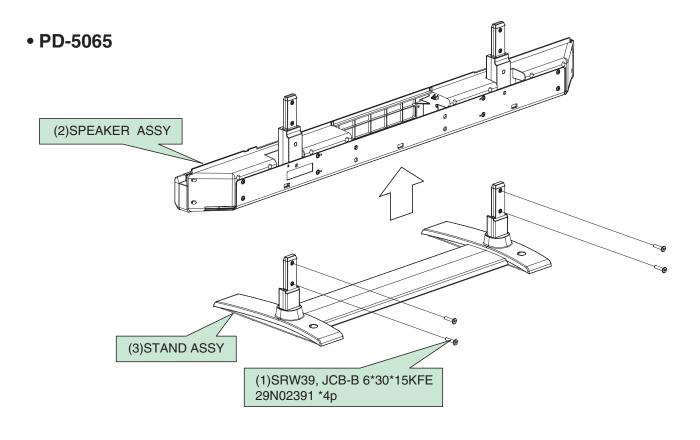


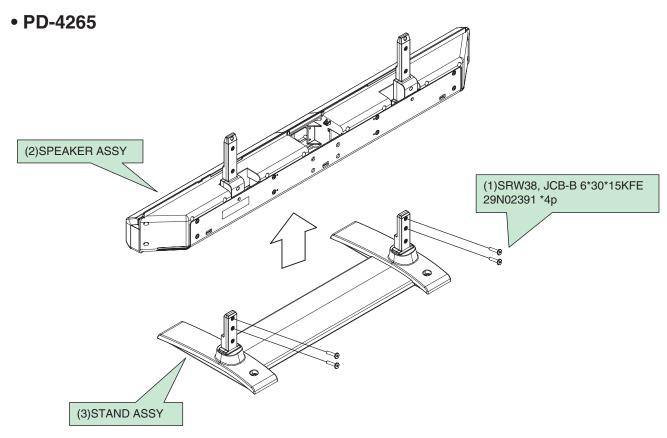
# 31.STAND/SPEAKER ASSY



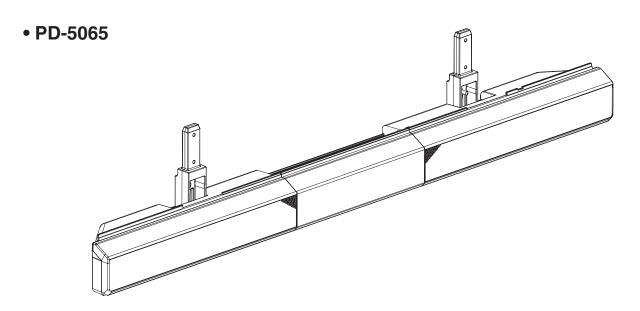


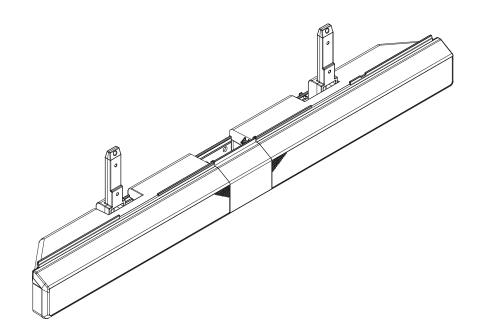
# 32.STAND/SPEAKER ASSY



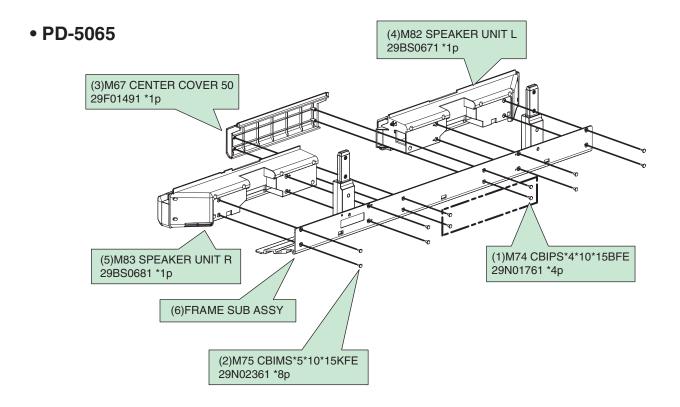


# **33.SPEAKER ASSY**

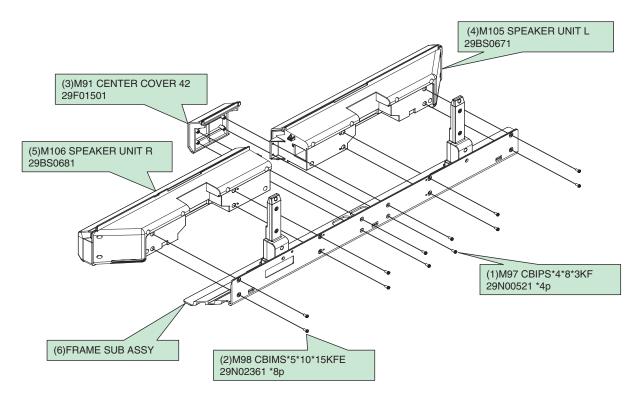




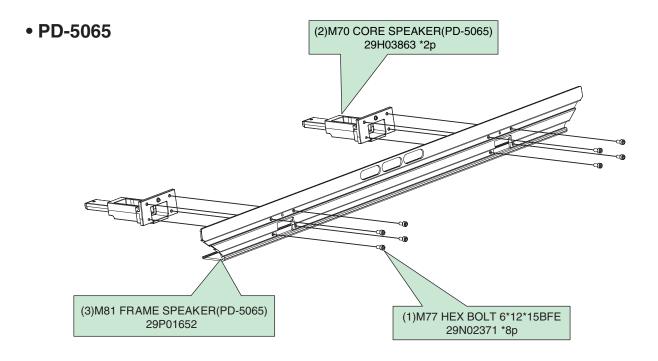
# **34.SPEAKER ASSY**

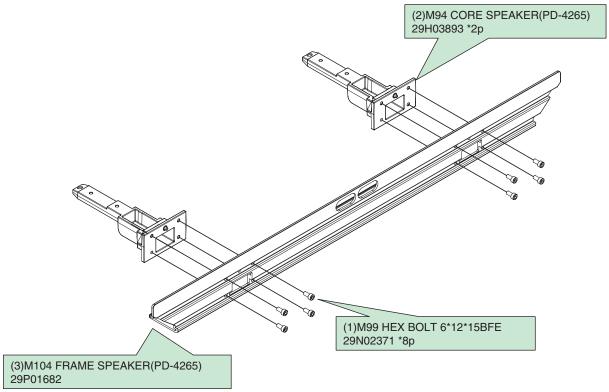


## • PD-4265



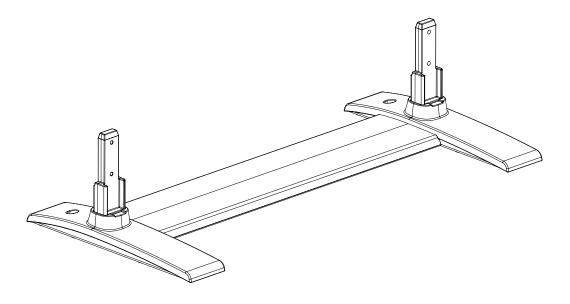
## **35.FRAME SUB ASSY**



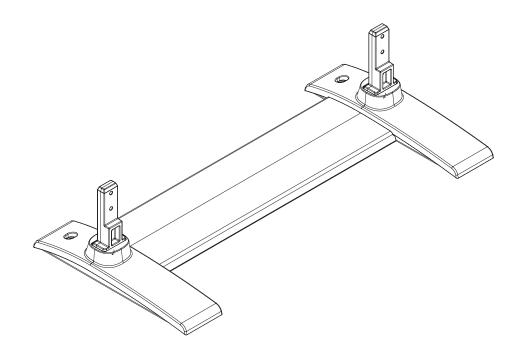


# **36.STAND ASSY**

# • PD-5065

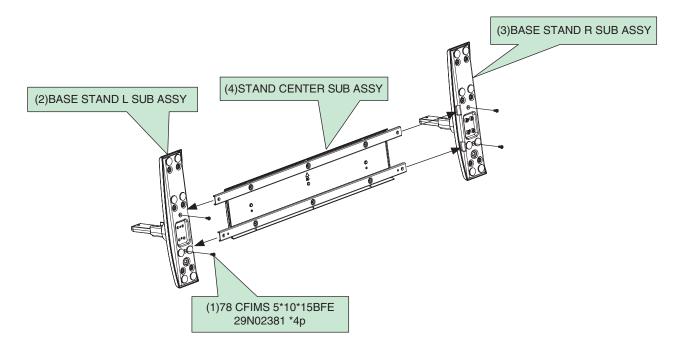


# • PD-4265

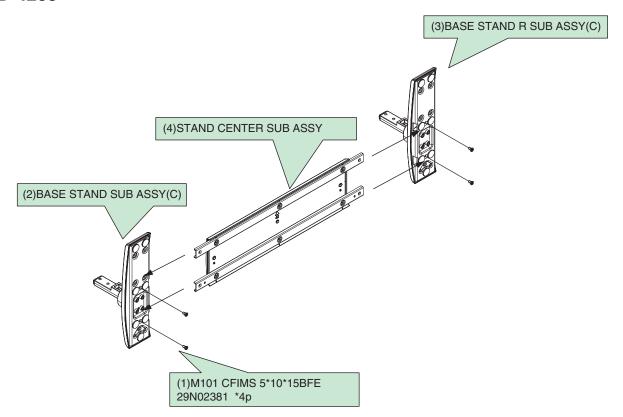


## **37.STAND ASSY**

## • PD-5065



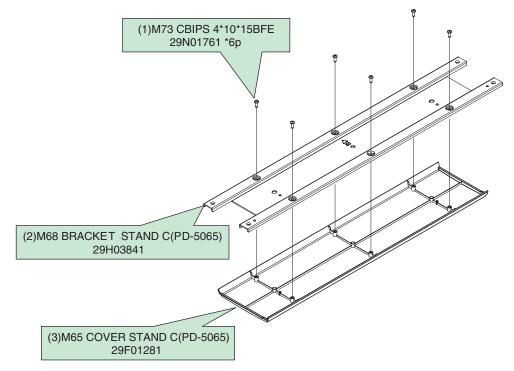
#### • PD-4265



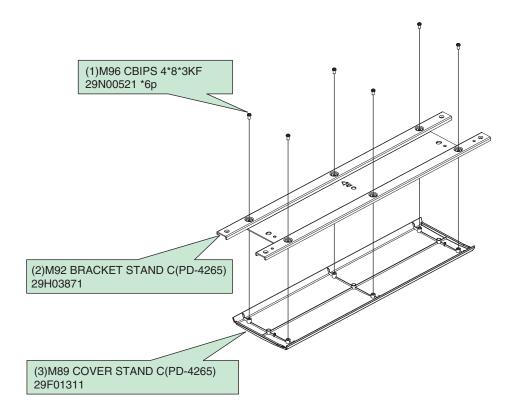
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## **38.STAND CENTER SUB ASSY**

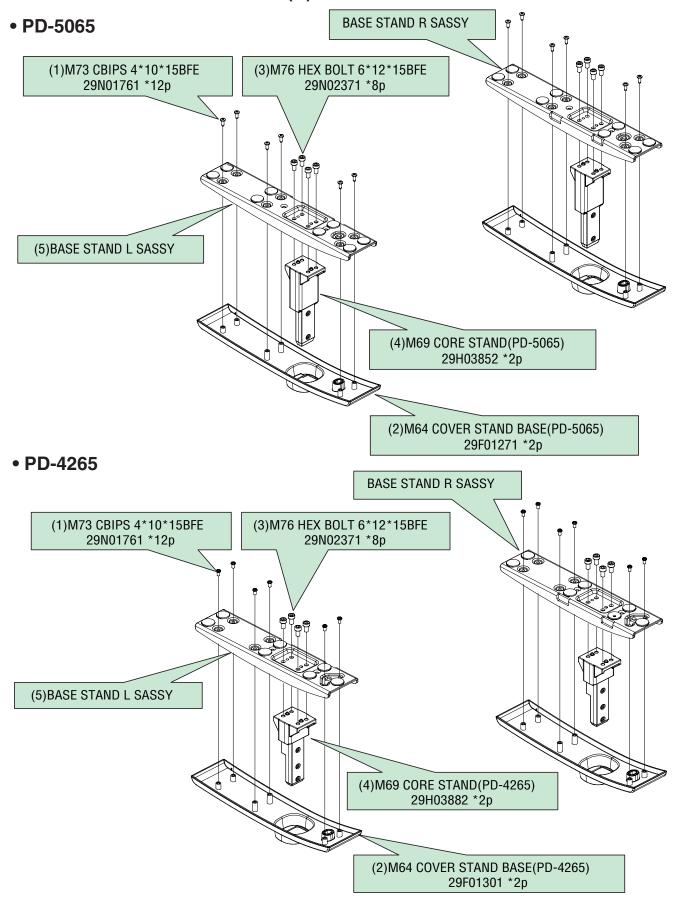
## • PD-5065



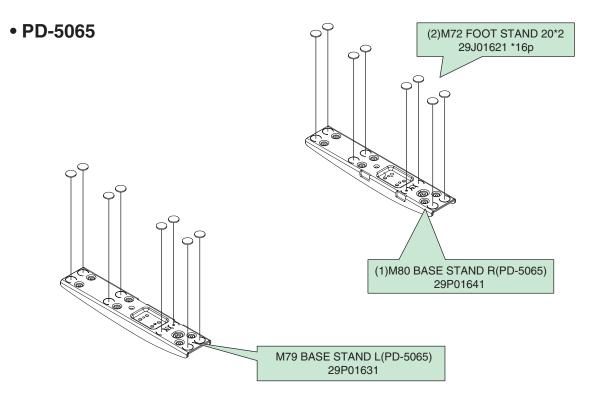
## • PD-4265



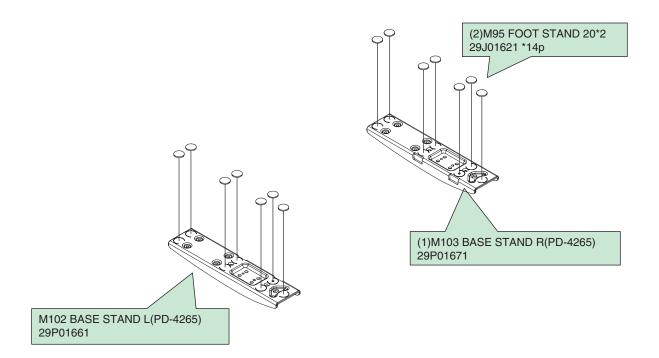
## 39.BASE STAND L/R SUB ASSY(B)



### **40.BASE STAND L/R ASSY**

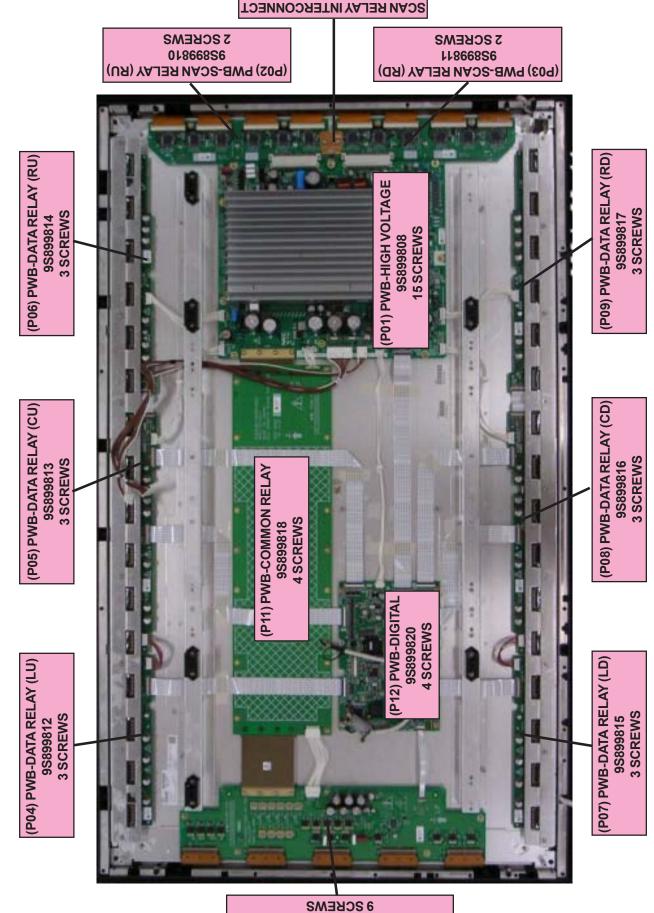


### • PD-4265



PD-5065

# 4-3. PD-5065 PDP ASSEMBLY



65839809 (P10) PWB-COMMON CONNECTION

**SCKEMS** 

(P05) PWB-DATA RELAY (LU)

9S899826 3 SCREWS

### 5 2 ССЕМЗ 52839829 52839829 52839829

(P07) PWB-SCAN RELAY (RU) 95899897 2 SCREWS (P08) PWB-SCAN RELAY (RD) 2 SCREWS 2 SCREWS

(P06) PWB-DATARELAY (RU) 9S899827 3 SCREWS

(P01) PWB-HIGH VOLTAGE 15 SCREWS **9**S899891 (P11) PWB-COMMON RELAY 4 SCREWS 95899828 P02) PWB-DIGITAL 4 SCREWS 09866886

(P03) PWB-DATA RELAY (LD) 9S899824 3 SCREWS

(P04) PWB-DATA RELAY (RD)

9S899825 3 SCREWS

610) PWB-COMMON CONNECTION

### PD-5065 Parts List

Ref	Part Number	Description
A01	937Q0M01	PWB-MAIN (PD5065) (T/A REQ)
A02	937Q0SA1	PWB-232C (PD5065)
A03	937Q0SB1	PWB-CTL (PD5065)
A05	937Q0SD1	PWB-LED (PD5065)
A06	937Q0SE1	PWB-SENB (PD5065)
A07	937Q0SF1	PWB-SENC (PD5065)
A08	937Q0SG1	PWB-SEND (PD5065)
A09	937Q0SH1	PWB-AUDIO (PD5065)
A10	3S110243	PWB-POWER UNIT (PD-5065) T/A REQ
E01	3S170014	FAN-MOTOR (9G1212M4D03)
M09	29D00791	PANEL-FRONT (PD-5065)
M10	29D00651	PANEL-FRONT SUB
M11	29D00575	FRAME (50XM3) (PD-5065)
M14	29F00592	HANDLE (PD-5065)
M16	29G00451	BUTTON-CONTROL (PD-5065)
M27	29H03491	PANEL-TERMINAL M(50XR4) (PD-5065)
M28	29H02561	PANEL-TERMINAL S (50XM3) (PD-5065)
M41	29KS0262	SCREEN-SHIELD (FILTER) PD-5065 (T/A REQ)
M50	29P01392	COVER-BACK (50XM4) (PD5065)
M61	29P01691	ORNAMENT-TOP(PD-5065)
M62	29P01701	ORNAMENT-BOTTOM(PD-5065)
M64	29F01271	COVER-STAND BASE (PD-5065)
M65	29F01281	COVER-STAND BASE C (PD-5065)
M66	29F01361	COVER-CONTROL(PD-5065)
M67	29F01491	COVER-CENTER (PD-5065)
M69	29H03852	STAND-CORE(PD5065)
M71	29J01521	INSULATOR (PD-5065)
M79	29P01631	STAND-BASE LEFT (PD-5065)
M80	29P01641	STAND-BASE RIGHT (PD-5065)
M105	29BS0671	SPEAKER-LEFT
M106	29BS0681	SPEAKER-RIGHT
PDP**	9S900134	PDP-NP50X6MF01EB (T/A REQ)
	7S530015	CABLE (1P L360)
	7S530036	CABLE (31P L390)
	7S552005	CORD-POWER AC (PD5065)
	I/B PD5065	I/B PD4265/5065
	3S120281	REMOTE (PD5065)

### \*\*PDP-NP50X6MF01 PARTS LIST

Ref	Part Number	Description
P01	9S899808	PWB-HIGH VOLTAGE
P02	9S899810	PWB-SCAN RELAY (RU)
P03	9S899811	PWB-SCAN RELAY (RD)
P04	9S899812	PWB-DATA RELAY (LU)
P05	9S899813	PWB-DATA RELAY (CU)
P06	9S899814	PWB-DATA RELAY (RU)
P07	9S899815	PWB-DATA RELAY (LD)
P08	9S899816	PWB-DATA RELAY (CD)
P09	9S899817	PWB-DATA RELAY (RD)
P10	9\$899809	PWB-COMMON CONNECTION
P12	9S899820	PWB-DIGITAL

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### PD-4265 Parts List

Ref	Part Number	Description
A01	937Q1M01	PWB-MAIN (PD-4265) (T/A REQ)
A02	937Q1SA1	PWB-232C (PD-4265)
A03	937Q1SB1	PWB-CTL (PD4265)
A05	937Q1SD1	PWB-LED (PD4265)
A06	937Q1SE1	PWB-SENB (PD4265)
A07	937Q1SF1	PWB-SENC (PD4265)
80A	937Q1SG1	PWB-SEND (PD4265)
A09	937Q1SH1	PWB-AUDIO (PD4265)
A10	3S110234	PWB-POWER UNIT (PD-4265) T/A REQ
E01	3S170013	FAN-MOTOR (9A0912M4D07)
M16	29G00461	BUTTON-CONTROL (PD-4265)
M41	29KS0251	SCREEN-SHIELD (FILTER) PD-4265 (T/A REQ)
M50	956R0651	COVER-BACK (PD4265)
M64	29F01301	COVER STAND BASE(PD-4265)
M66	29PS0961	PANEL-TERMINAL (PD-4265)
M67	29D00781	PANEL-FRONT
M69	29H03882	CORE STAND(PD-4265)
M84	29P01711	ORNAMENT-TOP(PD-4265)
M85	29P01721	ORNAMENT-BOTTOM(PD-4265)
M89	29F01311	COVER STAND
M91	29F01501	CENTER COVER 42
M102	29P01661	STAND-BASE LEFT
M103	29P01671	STAND-BASE RIGHT
M105	29BS0671	SPEAKER-LEFT
M106	29BS0681	SPEAKER-RIGHT
PDP	9S900100	PDP-NP42H5MF01EA (T/A REQ)
	7S530036	CABLE (31P L390)
	7S552005	CORD-POWER AC (PD5065)
	I/B PD4265	I/B PD4265/5065
	3S120281	REMOTE (PD5065)

### \*\*PDP-NP42H5MF01EA PARTS LIST

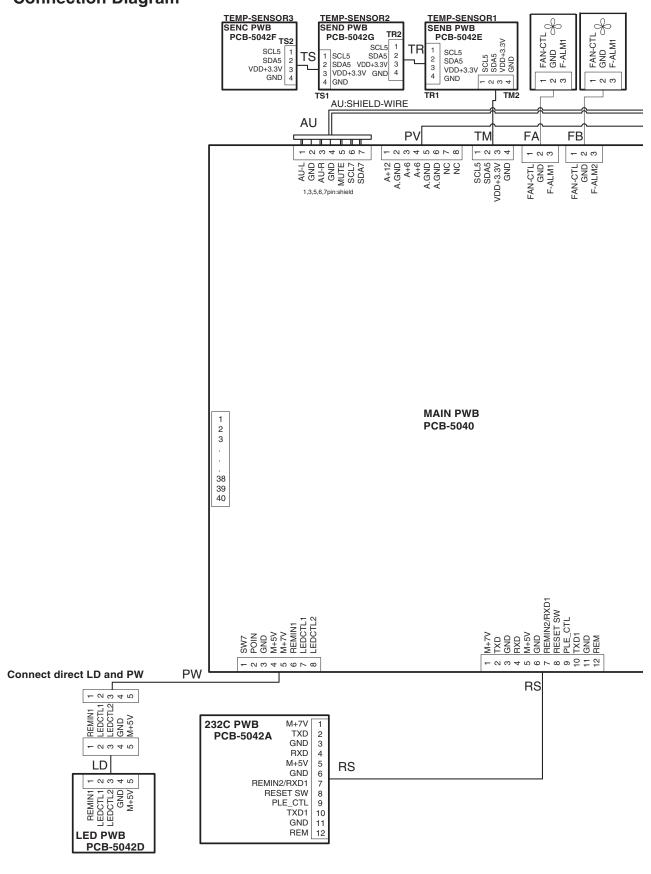
Ref	Part Number	Description
P01	9S899891	PWB-HIGH VOLTAGE (PD-4265)
P02	9S899860	PWB-DIGITAL (PD-4265)
P03	9S899824	PWB-DATA RELAY (LEFT DOWN) (PD-4265)
P04	9S899825	PWB-DATA RELAY (RIGHT DOWN) (PD-4265)
P05	9S899826	PWB-DATA RELAY (LEFT UP) (PD-4265)
P06	9S899827	PWB-DATA RELAY (RIGHT UP) (PD-4265)
P07	9S899897	PWB-SCAN RELAY BOARD (UP)
P08	9S899898	PWB-SCAN RELAY BOARD (DOWN)
P09	9S899829	PWB-SCAN RELAY INTERCONNECT
P10	9S899823	PWB-COMMON CONNECTION (PD-4265)
P11	9S899828	PWB-COMMON RELAY (PD-4265)

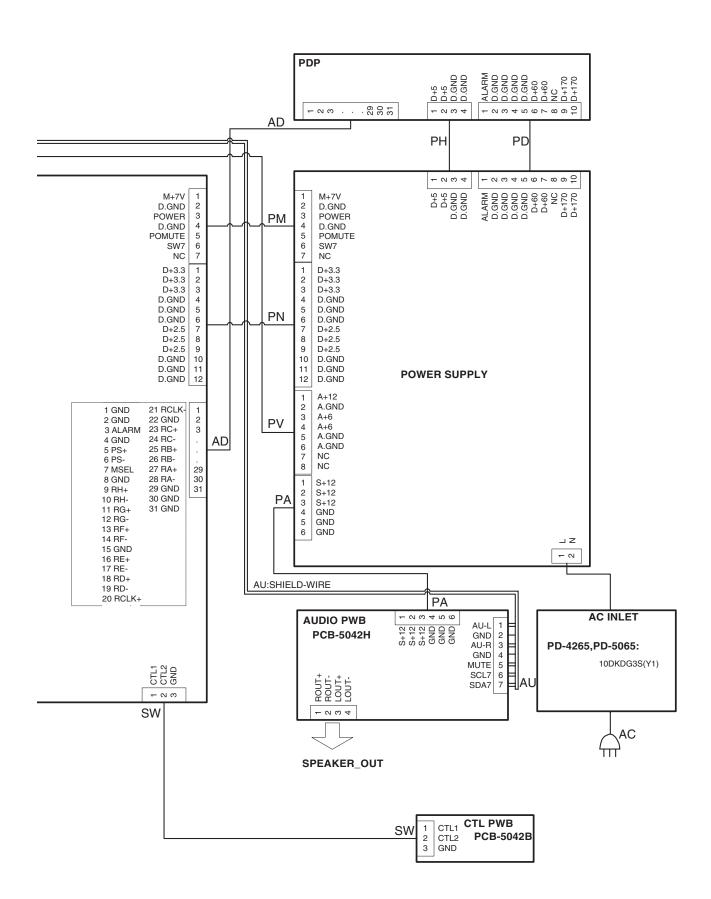
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### 5. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

# 5.1 CONECTION DIAGRAM 5.1.1 OVERALL CONNECTION DIAGRAM

### **Connection Diagram**





### **5.1.2 CONNECTOR PIN EXPLANATION**

PD-4265 / PD-5065
(Caution)The operating voltages specified below are used in common irrespective of the presence of signals. In this case, however, part of the operating voltages (red characters) may change according to the signal conditions when the main power supply is turned on (POWER button ON).
Status of LED lighting: • for lighting in green., • • for unlighting, and • • • for lighting in red..

				Basic operat	ion (Numerical un	it: Vdc; except	for the case wher	units are individ	lually indicated)		
				AC power ON	Main power ON (POW				AC pow	AC power	1
name	Pin NO	Pin name	Function	(Power cord connected to the wall outlet)		With signal	Power management	Standby ◆ ◆ ◆	Main power OFF ◆ ◆	OFF (Power cord pulled out ofthe wall outlet)	Signal direction
PN	1	D+3.3	3.3V power supply for digital circuits	0	3.3	3.3	0			-	$POWER \to MAIN$
	2	D+3.3	3.3V power supply for digital circuits	0	3.3	3.3	0	0		-	$POWER \rightarrow MAIN$
	3	D+3.3	3.3V power supply for digital circuits	0	3.3	3.3	0	0		-	$POWER \to MAIN$
	4	D.GND	GND	0	0	0		0		-	-
	5	D.GND	GND	0	0	0		0		-	-
	6	D.GND	GND	0	0	0	0	0	0	-	-
	7	D+2.5	2.5V power supply for digital circuits	0	2.5	2.5		0		-	$POWER \rightarrow MAIN$
	8	D+2.5	2.5V power supply for digital circuits	0	2.5	2.5	0	0		-	$POWER \to MAIN$
	9	D+2.5	2.5V power supply for digital circuits	0	2.5	2.5	0	0		-	$POWER \to MAIN$
	10	D.GND	GND	0	0	0	0	0	0	-	-
	11	D.GND	GND	0	0	0	0	0	0	-	-
	12	D.GND	GND	0	0	0	0	0	0	-	-
PM	1	M+7	7V power supply for microcomputer	6.8	6.8	6.8	6.8	6.8	6.8	-	$POWER \rightarrow MAIN$
	2	D.GND	GND	0	0	0	0	0	0	-	-
	3	POWER	Power control	0	4.9	4.9		0		-	$MAIN \rightarrow POWER$
	4	D.GND	GND	0	0	0		0	0	-	-
	5	POMUTE	Mute signal for AC power OFF	4.8	4.8	4.8	4.8	4.8	4.8	-	$POWER \rightarrow MAIN$
	6	SW7	Power start control	0	6.8	6.8	6.8	6.8	0	-	$POWER \rightarrow MAIN$
	7	NC	Non-connection terminal	-	-	-	-	-	-	-	-
PV	1	A+12	12V power supply for analog circuits	0	12	12		0	0	-	POWER → MAIN
	2	A.GND	GND	0	0	0		0	0	-	-
	3	A+6	6V power supply for analog circuits	0	6	6				-	POWER → MAIN
	4	A+6	6V power supply for analog circuits	0	6	6		0		-	POWER → MAIN
	5	A.GND	GND	0	0	0		0		-	-
	6	A.GND	GND	0	0	0	0	0	0	-	-
	7	NC NC	Non-connection terminal	-	-	-	-	-	<del></del>	<del></del>	-
A 1 1	8	NC	Non-connection terminal	-	Salacted innut	Colooted inc. +	-	-	-	-	MAIN AUDIC
AU	1	AU_L	Audio signal L CH	0	Selected input signals are output.	Selected input signals are output.	0	0	0	-	MAIN → AUDIO
	2	GND	GND	0	0	0	0	0	0	-	-
	3	AU_R	Audio signal R	0	Selected input signals are output.	Selected input signals are output.	0	0	0	-	MAIN → AUDIO
	4	GND	GND	0	0	0	0	0	0		
	5	MUTE	Mute signal of audio output	3.5	0	0		0	3.5	_	MAIN → AUDIO
	6	SCL7	Clock line of the I2C bus	3.5	Clock signal	Clock signal	0	0	0	-	MAIN → AUDIO
	7	SDA7	Data line of the I2C bus		(5Vac) when data are received; 5Vdc when no data are received. Clock signal	(5Vac) when data are received; 5Vdc when no data are received. Clock signal					MAIN → AUDIO
	,	SDA7	Data line of the IZC bus	0	(5Vac) when data are received; 5Vdc when no data are received.	(5Vac) when data are received; 5Vdc when no data are received.	1	1	0	-	MAIN → AUDIO
RS	1	M+5V	5V power supply for microcomputer	0	5	5	5		0	-	MAIN → RS232C
	2	TXD	RS232 driver output	0	Clock signal (3.3Vac) when data are received;3.3Vdc when no data are received.	Clock signal (3.3Vac) when data are received;3.3Vdc when no data are received.	Clock signal (3.3Vac) when data are received;3.3Vdc when no data are received.	Clock signal (3.3Vac) when data are received;3.3Vdc when no data are received.	0	-	MAIN → RS232C
	4	RXD	RS232 receiver input	0	Clock signal (3.3Vac) when data are received;3.3Vdc when no data are received.	Clock signal (3.3Vac) when data are received;3.3Vdc when no data are received.	Clock signal (3.3Vac) when data are received;3.3Vdc when no data are received.	Clock signal (3.3Vac) when data are received;3.3Vdc when no data are received.	0	-	RS232C → MAIN
	<u> </u>	M - 0 - 0) /	0.07	_						<del>                                     </del>	MAIN DOODO
	5 6	M+3.3V GND	3.3V power supply for microcompute GND		3.3	3.3	3.3	3.3	0	<u> </u>	MAIN → RS232C
	7	REMIN2 / RXD1	Data signal of wired remote control	0	0	0		0	0	-	RS232C → MAIN
	-	ł		0			l		0	<del>-</del>	1102020 → IVIAIN
	8	RESET SW	NC	-	-	-		-			-
	9	PLE_CTL	PLE control	0	0	0	0	0	0	-	MAIN → RS232C
	10	TXD1	RS232 driver output	0	0	0	0	0	0	-	MAIN → RS232C
	11	232C_SHUT	TXD0 Driver ON/OFF control	0	3.3	3.3	3.3	3.3	0	-	MAIN → RS232C
	12	REM	Insertion detection for wired	1		ĺ	_	_	_	_	RS232C → MAIN
	<u></u>		remotecontrol input								1102020 → IVIAIN
М	1	SCL5	Clock line of the I2C bus	0	During data exchange:Clock signal(3.3Vac), Data not exchanged: 3.3Vdc	During data exchange:Clock signal(3.3Vac), Data not exchanged: 3.3Vdc	0	0	0	-	MAIN → SENB
	2	GND	GND	0	0	0	0	0	0	-	-
	3	VDD+3.3V	3.3V power supply for analog signals	0	3.3	3.3	0	0	0	-	MAIN → SENB
	4	SDA5	Data line of the I2C bus	0	During data exchange:Clock signal(3.3Vac), Data not exchanged: 3.3Vdc	During data exchange:Clock signal(3.3Vac), Data not exchanged: 3.3Vdc	0	0	0	-	MAIN←→SENB
TR	1	SCL5	Clock line of the I2C bus	0	Clock signal used during transmission (3.3Vac)3.3Vdc when no data are transmitted.	Clock signal used during transmission (3.3Vac)3.3Vdc when no data are transmitted.	0	0	0	-	SENB → SEND

			1		Basic operation	on (Numerical uni	t: Vdc: except for	the case when ur	nits are individuall	v indicated)				
					AC power ON		OWER button ON)			,	AC power			
name	Pin NO	Pin name	Func	tion	(Power cord connected to the wall outlet)	No signal	With signal	Power management	Standby	Main power OFF	OFF(Power cord pulled out ofthe wall outlet)	Signal direction		
TR	2	GND	GND		0	0	0	0	0	0	-	-		
	3	VDD+3.3V		y for analog signals	0	3.3	3.3	0	0	0	-	SENB→SEND		
	4	SDA5	Data line of the I2	C bus		During data exchange:Clock signal(3.3Vac), Data not exchanged: 3.3Vdc	signal(3.3Vac), Data not exchanged: 3.3Vdc	0	0	0	-	SENB←→SEND		
TS	1	SCL5	Clock line of the I	2C bus		Clock signal used during transmission (3.3Vac)3.3Vdc when no data are transmitted.	Clock signal used during transmission (3.3Vac)3.3Vdc when no data are transmitted.	0	0	0	-	SEND→SENC		
	2	GND	GND			0	0	0	0	0	-	-		
	3	VDD+3.3V		y for analog signals	0	3.3 During data	3.3 During data	0	0	0	-	SEND→SENC		
	4	SDA5	Data line of the I2	o dus	0	exchange:Clock signal(3.3Vac), Data not exchanged: 3.3Vdc	exchange:Clock signal(3.3Vac), Data not exchanged: 3.3Vdc	0	0	0	-	SEND←→SENC		
FA	1	FAN-CTL	Voltage- controllable power supply	PD-4265		11.5Vdc during high- speed revolution (Fan mode H); 8.5Vdc during medium speed revolution (Fan mode M); 6.5Vdc during low-speed revolution (Fan mode L)	11.5Vdc during high- speed revolution (Fan mode H); 8.5Vdc during medium speed revolution (Fan mode M); 6.5Vdc during low-speed revolution (Fan mode L)	0	0	0	-	MAIN→FAN		
				PD-5065	0	11.6Vdc during high- speed revolution (Fan mode H); 7.8Vdc during medium speed revolution (Fan mode M); 5.3Vdc during low-speed revolution (Fan mode L)	medium speed revolution (Fan mode M); 5.3Vdc during low-speed revolution (Fan mode L)	0	0	0	-	SENB→SEND		
-	3	GND ALARM	GND FAN lock detect		0	0 0V during	0 0V during	0	0	0	-	- FAN→MAIN		
	3	ALAI IIVI	signal output	PD-5065 PD-4265		normal fan	normal fan operation;3.3V dc while the	0	0	0	-	I AN-JWAIN		
FB	1	FAN-CTL	PAN-CIL	con	Voltage- controllable power supply	PD-4265		revolution (Fan mode M); 6.5Vdc during low-speed revolution (Fan mode L)	11.5Vdc during high- speed revolution (Fan mode H); 8.5Vdc during medium speed revolution (Fan mode M); 6.5Vdc during low-speed revolution (Fan mode L)	0	0	0	-	MAIN→FAN
				PD-5065	0	medium speed revolution	11.5Vdc during high- speed revolution (Fan mode H); 7.6Vdc during medium speed revolution (Fan mode M); 5.3Vdc during low-speed revolution (Fan mode L)	0	0	0	-			
	2	GND	GND		0	0	0	0	0	0	-	-		
	3	ALARM	FAN lock detect signal output		0	0V during normal fan operation;3.3V dc while the fan is stopped.	dc while the	0	0	0	-	FAN→MAIN		
FC	1	FAN-CTL	Voltage-controlla	able power supply	-	-	-	-	-	-	-	-		
	2	GND	GND		0	0	0	0	0	0	-	-		
	3	ALARM	FAM Lock		-	-	-	-	-	-	-	-		

	1	1	I	Basic operat	ion (Numerical u	nit: Vdc; except	for the case whe	n units are indivi	dually indicated	)	
name	Pin NO	Pin name	Function	AC power ON (Power cord connected to the wall outlet)	Main power ON (PO)  No signal		Power management	Standby	Main power OFF	AC power OFF(Power cord pulled out ofthe wall outlet)	Signal direction
AD	1	GND	GND	0				0	0	-	-
	2	GND	GND	0	0	0	0	0	0	-	•
	3	ALARM	Module alarm signal		5Vdc during normal PDP operation; 0V when the PDP is out of order.	5Vdc during normal PDP operation; 0V when the PDP is out of order.	0	0	0	-	PDP→MAIN MAIN→FAN
	4	GND	GND	0	0	0	0	0	0	-	-
	5	PS+	PSS input PS+		PSS LVDS serial differential PS+ input 0Vac; Bias 1.1Vdc	PSS LVDS serial differential PS+ input 0.3Vac; Bias 1.25Vdc	0	0	0	-	PDP→MAIN
	6	PS-	PSS input PS-		PSS LVDS serial differential PS+ input 0Vac; Bias 1.4Vdc	PSS LVDS serial differential PS+ input 0.3Vac; Bias 1.25Vdc	0	0	0	-	PDP→MAIN
	7	MSEL	42V5 compatible interface OFF		0	0	0	0	0	-	-
	8	GND	GND	0	0	0	0	0	0	-	-
	9	RH+	OSD system output H+		OSD LVD Sserial differential H+ output 0Vac ;Bias 1.1Vdc	OSD LVD Sserial differential H+ output 0Vac ;Bias 1.1Vdc	0	0	0	-	MAIN→PDP
	10	RH-	OSD system output H-	0	OSD LVD Sserial differential H- output 0Vac ;Bias 1.4Vdc	OSD LVD Sserial differential H- output 0Vac ;Bias 1.4Vdc	0	0	0	-	MAIN→PDP
	11	RG+	OSD system output G+	0	OSD LVDS serial differential G+ output 0.3Vac;Bias 1.25Vdc	OSD LVDS serial differential G+ output 0.3Vac;Bias 1.25Vdc	0	0	0	-	MAIN→PDP

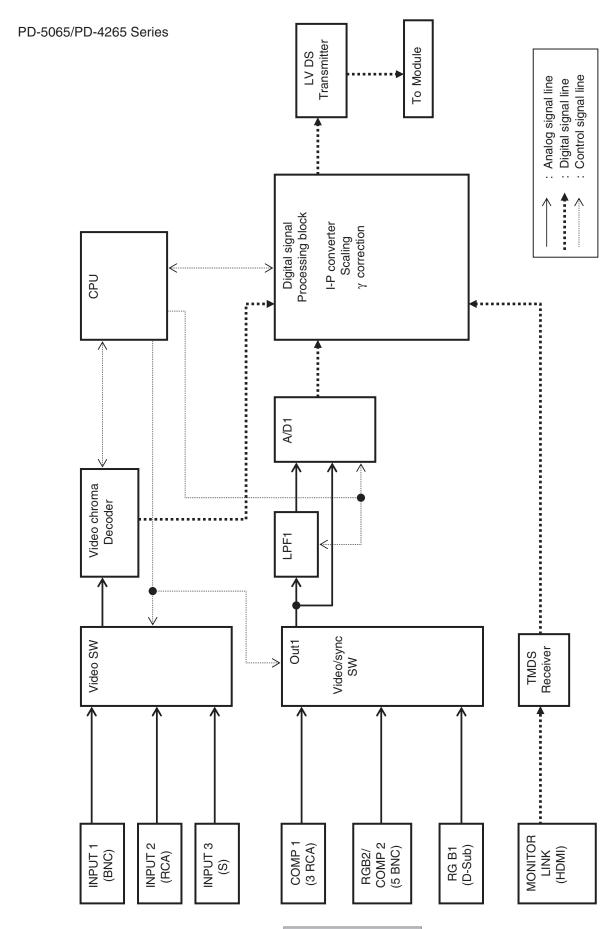
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				Basic operat AC power ON		nit: Vdc; except		en units are indi	vidually indicated		
name	Pin NO	Pin name	Function	(Power cord connected to the wall outlet)	No signal	With signal	Power management	Standby	Main power OFF	AC power OFF(Power cord pulled out ofthe wall outlet)	Signal direction
AD	11	RG+	OSD system output G+	0	OSD LVDS serial differential G+output 0.3Vac;Bias 1.25Vdc	OSD LVDS serial differential G+output 0.3Vac;Bias 1.25Vdc	0	0	0	-	MAIN→PDP
	12	RG-	OSD system output G-	0	OSD LVDS serial differential G-output 0.3Vac;Bias 1.25Vdc	OSD LVDS serial differential G-output 0.3Vac;Bias 1.25Vdc	0	0	0	-	MAIN→PDP
	13	RF+	Mode system output F+	0	Video mode LVDS serial differential F+output 0.3Vac;Bias 1.25Vdc	Video mode LVDS serial differential F+output 0.3Vac;Bias 1.25Vdc	0	0	0	-	MAIN→PDP
	14	RF-	Mode system output F-	0	Video mode LVDS serial differential F-output 0.3Vac;Bias 1.25Vdc	Video mode LVDS serial differential F-output 0.3Vac;Bias 1.25Vdc	0	0	0	-	MAIN→PDP MAIN→PDP
	15	GND	GND	0	0	0	0	0	0	-	-
	16	RE+	Video system output E+	0	Video mode LVDS serial differential E+output 0Vac;Bias 1.1Vdc	Video mode LVDS serial differential E+output 0.3Vac;Bias 1.1Vdc*	0	0	0	-	MAIN→PDP
	17	RE-	Video system output E-	0	Video mode LVDS serial differential E-output 0Vac;Bias 1.4Vdc	Video mode LVDS serial differential E-output 0.3Vac;Bias 1.25Vdc*	0	0	0	-	MAIN→PDP
	18	RD+	Video system output D+	0	Video mode LVDS serial differential D+output 0Vac;Bias 1.1Vdc	Video mode LVDS serial differential D+output 0.3Vac;Bias 1.25Vdc	0	0	0	-	MAIN→PDP
	19	RD-	Video system output D-	0	Video mode LVDS serial differential D-output 0Vac;Bias 1.4Vdc	Video mode LVDS serial differential D-output 0Vac;Bias 1.25Vdc	0	0	0	-	MAIN→PDP
	20	RCLK+	Video system output clock+	0	Video data clock LVDS serial differential clock+ output 0.3Vac; Bias1.25Vdc	Video data clock LVDS serial differential clock+ output 0.3Vac; Bias1.25Vdc	0	0	0	-	MAIN→PDP
	21	RCLK-	Video system output clock-	0	Video data clock LVDS seria Idifferential clock- output 0.3Vac; Bias1.25Vdc	Video data clock LVDS seria Idifferential clock- output 0.3Vac; Bias1.25Vdc	0	0	0	-	MAIN→PDP
	22	GND	GND	0	0	0	0	0	0	-	-
	23	RC+	Video system output C+	0	Video data LVDS serial differential C+ output 0.3Vac; Bias 1.25Vdc	Video data LVDS serial differential C+ output 0.3Vac; Bias 1.25Vdc	0	0	0	-	MAIN→PDP
	24	RC-	Video system output C-	0	Video data LVDS serial differential C- output 0.3Vac; Bias 1.25Vdc	Video data LVDS serial differential C- output 0.3Vac; Bias 1.25Vdc					MAIN→PDP
	25	RB+	Video system output B+	0	Video data LVDS serial differential B+ output 0Vac; Bias 1.1Vdc	Video data LVDS serial differential B+ output 0Vac; Bias 1.1Vdc	0	0	0	-	MAIN→PDP
	26	RB-	Video system output B-		Video data LVDS serial differential B-output 0Vac; Bias 1.4Vdc	Video data LVDS serial differential B-output 0.3Vac; Bias 1.25Vdc	0	0	0	-	MAIN→PDP
	27	RA+	Video system output A+		Video data LVDS serial differential A+output 0Vac; Bias 1.4Vdc	Video data LVDS serial differential A+output 0.3Vac; Bias 1.25Vdc					MAIN→PDP
	28	RA-	Video system output A-		Video data LVDS serial differential A-output 0Vac; Bias 1.4Vdc	Video data LVDS serial differential A-output 0.3Vac; Bias 1.25Vdc					MAIN→PDP
	29	GND	GND	0	0	0	0	0	0	-	-
	30	GND	GND	0	0	0	0	0	0	-	-
	31	GND	GND	0	0	0	0	0	0	-	-

		1		Basic opera	tion (Numerical u	nit: Vdc: except	for the case whe	n units are indiv	vidually indicated)		
						OWER button ON)		I I I I I I I I I I I I I I I I I I I	maioatou)		1
name	Pin NO	Pin name	Function	AC power ON (Power cord connected to the wall outlet)	No signal	With signal	Power management	Standby	Main power OFF	AC power OFF(Power cord pulled out ofthe wall outlet)	Signal direction
LD	1	REMIN1	Infrared remote control data	0	Clock signal (5Vac) when data are received; 5Vdc when no data are received.	Clock signal (5Vac) when data are received; 5Vdc when no data are received.	Clock signal (5Vac) when data are received; 5Vdc when no data are received.	Clock signal (5Vac) when data are received; 5Vdc when no data are received.	0	-	LED→PWR
	2	LEDCTL1	Standby red LED control		0	0					PWR→LED
	3	LEDCTL2	POWER ON green LED control		3.3	3.3					PWR→LED
	4	GND	GND		0	0					
	5	M+5V	5V power supply for microcomputer		0	0					PWR→LED
PW	1	SW7	Power start control		6.8	6.8	0	0	0	-	-
	2	POIN	Power start detection		3.3	3.3					-
	3	GND	GND		0	0					
	4	M+5V	5V power supply for microcomputer	0	5	5					MAIN→LED
	5	M+7V	7V power supply for microcomputer	0	6.8	6.8					-
	6	REMIN1	Infrared remote control data		Clock signal (5Vac) when data are received; 5Vdc when no data are received.	Clock signal (5Vac) when data are received; 5Vdc when no data are received.	Clock signal (5Vac) when data are received; 5Vdc when no data are received.	Clock signal (5Vac) when data are received; 5Vdc when no data are received.		-	LED→MAIN
	7	LEDCTL1	Standby red LED control		0	0		0	0	-	MAIN→LED
	8	LEDCTL2	POWER ON green LED control		3.3	3.3		0	0	-	MAIN→LED
SW	1	CTL1	Key input detection	0	0.7~2.8Vdc when keyinputs are entered; 3.3Vdc when no key inputs are entered.	0.7~2.8Vdc when keyinputs are entered; 3.3Vdc when no key inputs are entered.	0.7~2.8Vdc when keyinputs are entered; 3.3Vdc when no key inputs are entered.	are entered;	0	-	SW→MAIN
	2	CTL2	Key input detection	0	0.7~2.8Vdc when key inputs are entered; 3.3Vdc when no key inputsare entered.	0.7~2.8Vdc when key inputs are entered; 3.3Vdc when no key inputsare entered.	0.7~2.8Vdc when key inputs are entered; 3.3Vdc when no key inputsare entered.	are entered;	0	-	SW→MAIN
	3	GND	GND	0	0	0	0	0	0	-	-
PA	1	S+12	+12V power supply for audio circuits	0	12	12	0	0	0	-	POWER-AUDIO
	2	S+12	+12V power supply for audio circuits	0	12	12	0	0	0	-	POWER→AUDIO
	3	S+12	+12V power supply for audio circuits	0	12	12	0	0	0	-	POWER→AUDIO
	4	GND	GND	0	0	0	0	0	0	-	-
	5	GND	GND	0	0	0	0	0	0	-	-
	6	GND	GND	0	0	0	0	0	0	-	-
PD	1	ALARM	PDP alarm signal	0	5Vdc when the PDP is normal; 0V when it is abnormal.	5Vdc when the PDP is normal; 0V when it is abnormal.	0	0	0	-	PDP→POWER
	2	D.GND	GND	0	0	0	0	0	0	-	-
	3	D.GND	GND	0	0	0	0	İ	0	-	-
	4	D.GND	GND	0	0	0	0		0	-	-
	5	D.GND	GND	0	0	0	0		0	-	-
	6	D+60	Vd power supply for PDP	0	60Vdc(changeable according to the PDP	60Vdc/channeable	0			-	PDWER→PDP
	7	D+60		0	60Vdc(changeable according to the PDP	60Vdc(changeable according to the PDP	0	0		-	PDWER→PDP
	8	NC	digital circuits	-	-	-	-	-	-	-	-
	9	D+170	Vs power supply for PDP high-voltage circuits	0	170Vdc(changeable according to the PDP	170Vdc(changeable according to the PDP	0			-	PDWER→PDP
	10	D+170	Vs power supply for PDP high-voltage circuits	0	170Vdc(changeable according to the PDP	170Vdc(changeable according to the PDP)	0	0		-	PDWER→PDP
PH	1	D+5	5V power supply for digital circuits	0	5.15	5.15	0	0	0	-	PDWER→PDP
	2	D+5	5V power supply for digital circuits	0	5.15	5.15	0	0	0	-	PDWER→PDP
	3	D.GND	GND	0	0	0	0	0	0	-	
	4	D.GND	GND	0	0	0	0	0		-	-
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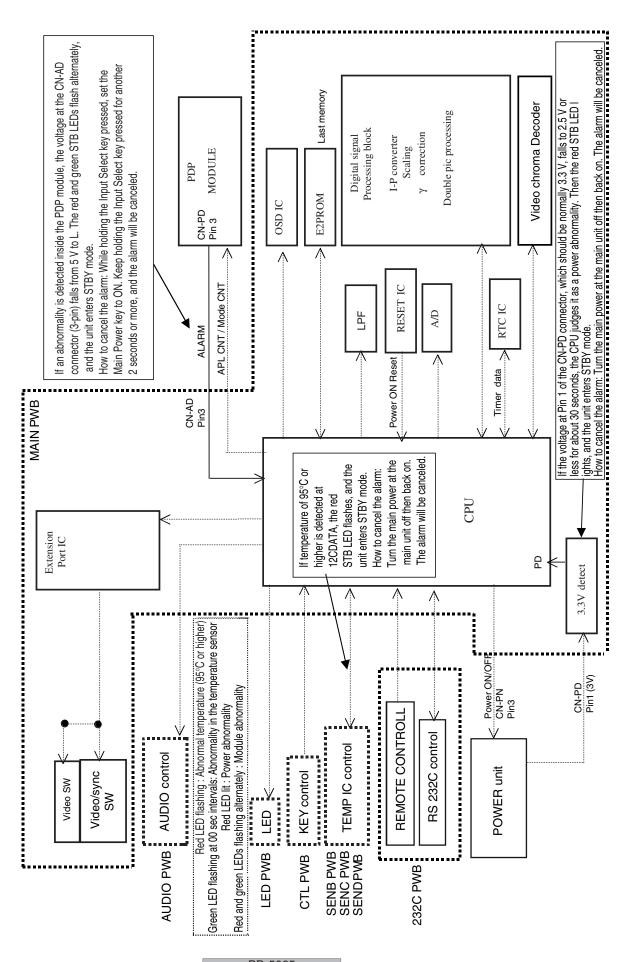
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# 5.2 BLOCK DIAGRAM 5.2.1 OVERALL BLOCK DIAGRAM



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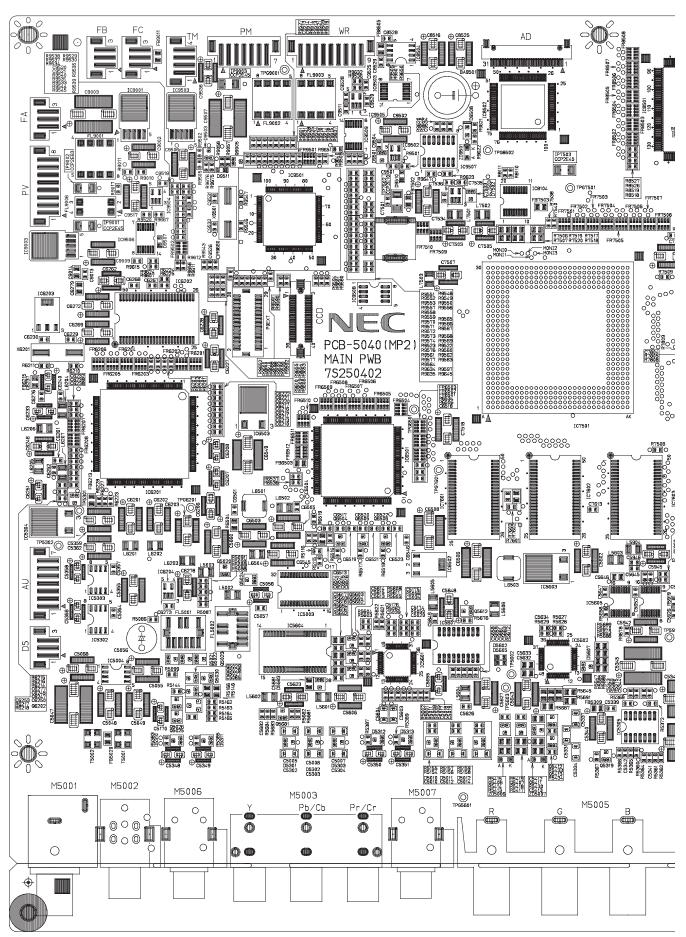
PD-5065/PD-4265 Series Blockdiagram of the control block

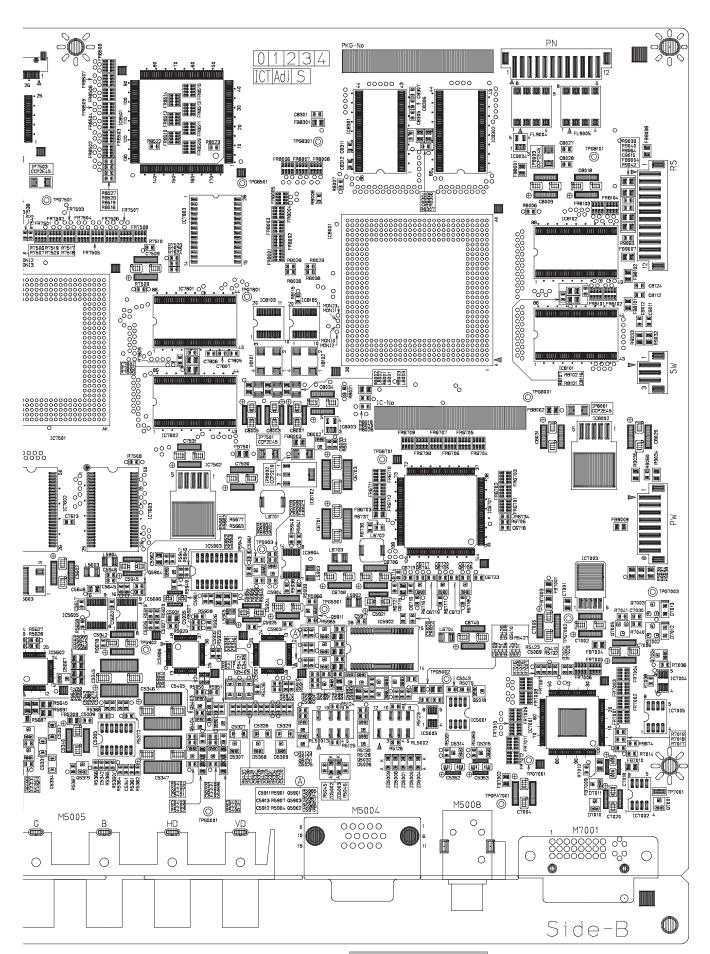


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### 6. PCB DIAGAM

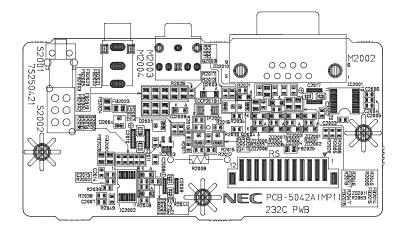
### 6.1 MAIN PWB



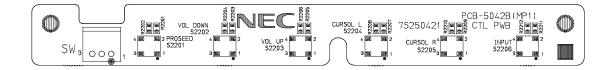


## 6.2 232C, CLT and LED PWB

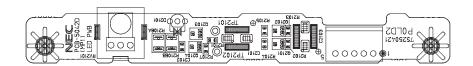
### 232C PWB



### **CLT PWB**

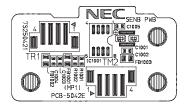


### LED PWB

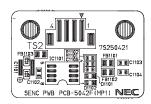


### 6.3 SENB, SENC, SEND and AUDIO PWB

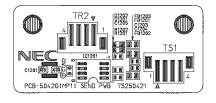
SENB PWB



SENC PWB



SEND PWB



**AUDIO PWB** 

