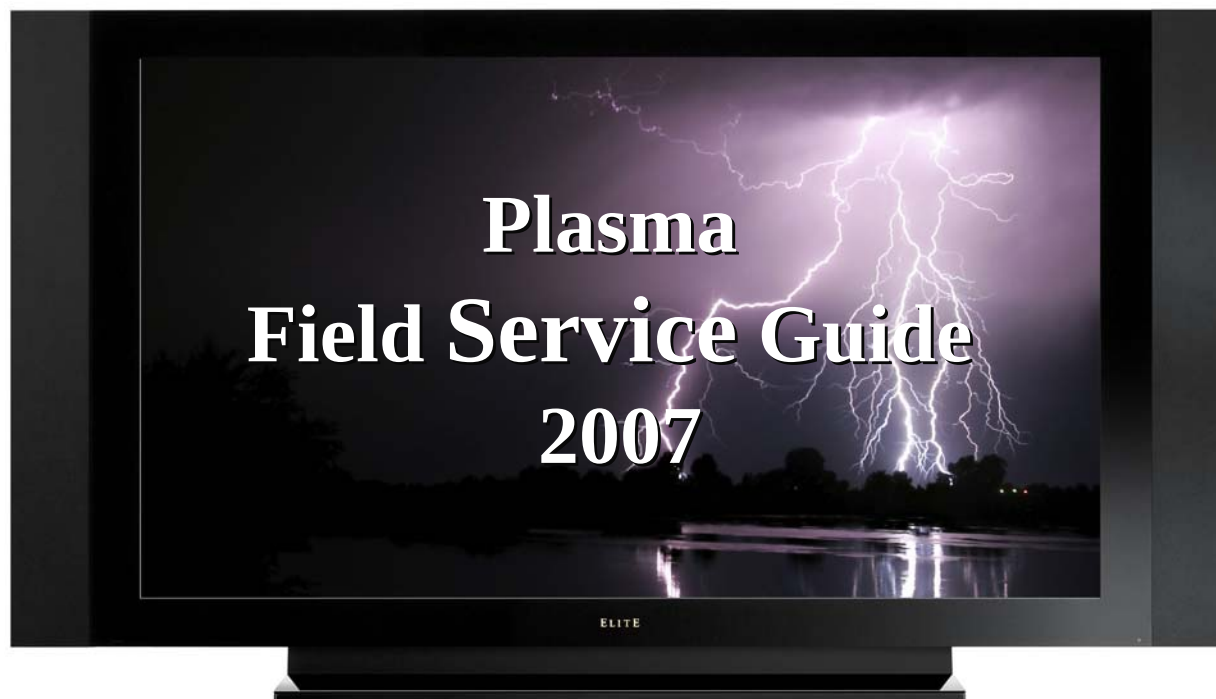




Generations 3 to 8
Quick Reference
Troubleshooting Guide
Version 1.2

KURO

seeing and hearing like never before

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Preface

This field service guide will address key points of Pioneer Plasma Displays.

This guide was designed as a servicing aid and is not intended to replace the service manual. The technician should have the appropriate service manual on hand when using this guide. Data in the service manuals for plasma units contains specific information on safety, parts and adjustments.

Safety information

Important safety data for this Pioneer model is contained in the service manual. Before returning the unit to the customer, complete all product safety obligations and tests. Technicians who bypass safety features or fail to carry out safety checks may expose themselves and others to possible injury, and may be liable for any resulting damages.

For more information on electronic circuits and block diagrams refer to the Service manuals.



Lead in the solder used in this product is a known reproductive toxicant which may cause birth defects or other reproductive harm. (California Health and Safety Code Section 25249.5).

When servicing this or handling circuit boards and other components which contain solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

Recommended preparations for Plasma service

Scheduling

1. Request purchase info from customer. Advise that tech will need to see invoice at time of service call.
2. Request model and serial number (use model/system chart). Serial number of panel can be on top, bottom, side edges or by input jacks, as well as on the back. Advise them not to use number on speaker or media receiver.
3. Request details of symptom; is there a picture momentarily, on screen display. If it powers down request blink sequence of power indicators (red and/or green/blue). For two piece models, need this for both units.
4. Tech should check tips and bulletins on <http://parts.pioneerelectronics.com/> after account login.
5. If there's any uncertainty contact Pioneer Office of Technical Service.

Performing service call

1. Tech should take service manual, necessary tips and bulletins, static strap, scope and HD generator with DVI and HDMI outputs.
2. Before opening unit check for picture aberrations and status of power indicators.
3. If unit has a trap switch do not plug into AC with switch released.
4. Record model and serial number of unit that is serviced (panel, media receiver and/or speakers).
5. Once operational, record the HOUR and P-COUNT (models G3 and older don't have P-COUNT) meter readings on warranty claim.

POLICY GUIDE

To: All Pioneer Electronics Authorized Service Companies
From: Quality Assurance and Factory Service Division
Subject: Plasma Panel **“Hour”** & **“P- count”** meter readings
Models: All Plasma models with **“Hour”** & **“P- count”** meters

Please discard the previous Service Information SI-PG06003 dated April 21, 2006.
Change: Corrected Service Factory Mode procedure for models PDP433PU and PDP503PU.

Effective immediately, please record the Plasma Panel **“Hour”** & **“P- count”** meter readings on the warranty claim in the Service Performed area. See Warranty Claim Example on page 2.

This applies to Plasma Panels not the Media Receivers and is mandatory for warranty claim processing.

Accessing the **“Hour”** & **“P- count”** meters:

- See Table 1 for current models. This is a summary procedure grouped by generation.
- For complete procedure or models not listed in Table 1, refer to the service manual for that model.

Note: Some models have only **“Hour”** meters.

Thank you for your cooperation and please contact your local Pioneer Office of Technical Service should you have any questions.

Pioneer Electronics Service, Inc.
Quality Assurance and Factory Service Division

Warranty Claim Example:

☐ LABOR WARRANTY		☐ PART WARRANTY		☐ NO WARRANTY	
BRAND NAME		FIRST NAME		CLAIM NUMBER AC95674	
CLIENT LAST NAME		ADDRESS		SERVICE CENTER NUMBER	
CITY		STATE		MODEL NUMBER	
ZIP		AREA CODE		SERIAL NUMBER	
PHONE #		DEFECT CODE #		DATE PURCHASED	
CLIENT COMPLAINT		MONTH		DAY	
SELLING DEALER NAME		CITY		YEAR	
DATE SERVICE REQUESTED		MONTH		DAY	
DATE SERVICE COMPLETED		MONTH		DAY	
TYPE OF PRODUCT SERVICED		Mfg. SVC. Code		YEAR	
SERVICE PERFORMED (CHECK AND DESCRIBE BELOW)		Mileage		CHECK REPAIR CATEGORY	
☐ ADJUSTMENTS OR ALIGNMENTS		☐ LOOSE CONNECTIONS		☐ PART(S) REPLACED	
☐ OTHER		TIME ON JOB		MINOR	
HR Mtr = 000125H, P- Count = 00041103		REPLACE		MAJOR	
PART PURCHASED ON INVOICE #		CREDIT		CARRY-IN SERVICE	
TRAVEL TIME		MILEAGE		ON SITE SERVICE	
QTY		PART NO.		TECH. SERVICE	
REF. #		DESCRIPTION		CRT REPLACE	
COST				STOCK MERCH.	
ACKNOWLEDGMENT: I CERTIFY THAT REPAIRS TO THE ABOVE LISTED PRODUCT FOR WHICH CLAIM IS MADE UNDER MANUFACTURER'S WARRANTY OR DEALER SERVICE CONTRACT PROVIDING FOR LABOR AND/OR PARTS IS SATISFACTORY AND THAT NO CHARGE HAS BEEN MADE TO ME FOR THAT PORTION UNDER CLAIM OF WARRANTY.				TECHNICAL CHARGE	
I UNDERSTAND THAT IF NO WARRANTY IS APPLICABLE, FOR ANY REASON, IN WHOLE OR PART, I AM RESPONSIBLE FOR PAYMENT OF THAT PORTION NOT COVERED BY WARRANTY. I AGREE THAT A REPAIRMAN'S LEEB IS HEREBY ACKNOWLEDGED ON THE MERCHANDISE TO SECURE THE AMOUNT OF PAYMENT OWED FOR THE REPAIR INCLUDING ANY SHIPPING CHARGES.				TOTAL PARTS CHARGE	
SERVICE WAS SATISFACTORILY COMPLETED				OTHER	
X				REMOVAL AND REINSTALLATION	
CLIENT SIGNATURE		DATE		SALES TAX	
TECHNICIAN		RELEASED BY		TOTAL CHARGE	
AC LEAKAGE				ROA	
HV/MW READING				BALANCE	
DISTRIBUTOR INFORMATION				ESTIMATED TIME FOR COMPLETION	
NAME				IS WORKDAYS.	
CODE				WORKLOAD AND PARTS ORDERS	
EXT. WARR. CODE				COULD CAUSE DELAY.	
WARRANTY BILLING ORIGINAL				COMPLETED AND NOTIFIED	

SERVICE PERFORMED (CHECK AND DESCRIBE BELOW)	
☐ ADJUSTMENTS OR ALIGNMENTS	☐ LOOSE CONNECTIONS
☐ PART(S) REPLACED	
HR Mtr = 000125H, P- Count = 00041103	
PART PURCHASED ON INVOICE #	
TRAVEL TIME	MILEAGE

Table 1

	Model	Accessing Hours and P count meters	Photos/Screen
G2	PDP505HD PDP502MX	Integrator mode: In standby mode, press "Menu" then "Power" keys within 3 sec. In "MENU" screen ----> Select "OPTION 2" by pressing "DOWN" key 5X ----> "OPTION 2" screen ----> Record the number ----> Press "MENU" key to exit	OPTION2 OSD : ON BAUD RATE : 4800BPS FULL MASK : OFF FAN CONTROL : AUTO TEMPERATURE : HOURLY METER : 01207HRS
	PDP433PU, PDP503PU	Service factory mode: In standby mode, turn off main power switch (Bottom front left on Panel), push and hold "Vol up" and "input keys" (in front of PDP), then turn on main power switch. Press "DOWN" key once "HOURLY METER & P ON COUNTER" screen ----> Record the number ----> Press "Power" key to exit	2/17 Sensore Temp +50 Center Acutime 5 H 16 M RESET OFF Monitor Acutime 1900 H 13 M RESET OFF Pulse Acutime 7927 RESET OFF
G3	PRO800HD, PRO800HDI, PRO1000HD, PRO1000HDI, PDP4300 PDP503CMX, PDP433CMX	Service factory mode: In standby mode, press and release "Menu", "Set", and "Power" keys on the remote within 3 sec. Press "MUTING" key 5X --> "INIT" screen --> Press "DOWN" key 5X --> "HOURLY METER SET" screen --> Press "SET" once --> Record the number --> Press "SET" key 2X ----> Press "DOWN" key once --> "PULSEMETER SET" screen --> Press "SET" key once --> Record the number --> Press "SET" key 2X --> Press "MENU" key to exit	INT #1-US-IN1-FF-2 HOURLY METER SET NOW DATA : 00853 H SET DATA : 0000 H INT #1-US-IN1-FF-2 PULSEMETER SET NOW DATA : 00034. 02G SET DATA : 00000. 00G
G4 & G5	PDP4304, PDP4314, PDP5004, PDP5014, PRO810HD, PRO1010HD PDP504CMX, PDP434CMX, PDP505CMX	Service factory mode: In standby mode, press and release "Display" key, wait for 4 sec then press and release "Left", "Up", "Left", "Right", "Power" keys within 6 sec. Press "DOWN" key 6X ----> "HOURLY METER" screen ----> Record the hour ----> Press "DOWN" key 2X ----> "P ON counter" screen --> Record the number ----> Press "MENU" key to exit	INFORMATION DTV-432-DIG-AHS HOURLY METER 00177H25M
	PDP435PU, PDP505PU, PDP434PU, PDP504PU, PRO435PU, PRO505PU, PDP4350SX, PDP5050SX, PRO434PU, PRO504PU	Service factory mode: In standby mode, press and release "Display" key, wait for 4 sec then press and release "Left", "Up", "Left", "Right", "Power" keys within 6 sec. Press "DOWN" key 7X ----> "HOURLY METER" screen ----> Record the hour ----> Press "DOWN" key 3X ----> "P ON COUNTER" screen ----> Record the number ----> Press "MENU" key to exit	INFORMATION DTV-432-DIG-AHS P ON COUNTER 00000707 TIMES

Table 1

G6	PDP436PU, PDP506PU, PRO436PU, PRO506PU	Service factory mode: In standby mode, press and release "Display" key, wait for 4 sec then press and release "Left", "Up", "Left", "Right", "Power" keys within 6 sec. Press "MUTING" key 3X --> "PANEL FACTORY" screen ---> Press "ENTER"---> Press "DOWN" key 1X ---> Record the numbers. Note: TV guide should be turned off before entering service mode.	PANEL FACT. ARA-30602-DIG-AH PANEL WORKS PM-B1 00001108 M PM-B2 00001216 M HR-MTR 000024H 29M P-COUNT 00000103 TIMES
	PDP425CMX	Factory mode: In standby mode, press and release "Display" key, wait for 4 sec then press and release "Left", "Up", "Left", "Right", "Power" keys within 6 sec. Press "DOWN" key 1X --> "PANEL WORKS" screen . Record the numbers.	PANEL FACT. ARA-30602-DIG-AH PANEL WORKS PM-B1 00001108 M PM-B2 00001216 M HR-MTR 000024H 29M P-COUNT 00000103 TIMES
NA	PDP6100HD, PRO1410HD, PDP614MX, PDP424MV	Service factory mode: While TV is on, Press and release "Power on", "Power on", "Exit", "Display" keys. Press "EXIT" key 2X ---> "MONITOR INFORMATION" screen ---> Record the hour number ----> Press "POWER ON, POWER ON, EXIT, DISPLAY" keys to exit. Note: P ON COUNTER does not apply to these models	MONITOR INFORMATION MODEL NAME SERIAL NUMBER SOFTWARE VERSION USAGE TIME 00161 H
NA	PDP4214HD, PDP42A3HD	These models do not have Hours and P count meters.	

PLASMA BREAKDOWN MODELS LIST

Note: For consumer model : Model # = Media receiver + Panel + Speakers + Table top stand + Wall mount bracket
Some models MIGHT not have Media receiver, Speakers, Table Top stand or Wall mount bracket
2. "G" means Generation
3. "Brown" color is new models

		Consumer Models							Industrial Models	
	Type	Model #	Media receiver	Plasma Display	Speakers	Table top stand	Wall mount bracket	Size	Model #	
G1	Regular Model	PDP501MX	NA	NA	NA	NA	NA	40" 50"	PDPV401 PDPV501X	
	Regular Model	PDP505HD	NA	NA	NA	NA	NA	50" 40"	PDP502MX PDPV402	
G3	Regular Model	50" System	PDPR03U	PDP503PU	PDPS06LR	PDKTS01	NA	43" 50" 61"	PDP433CMX	
		50" System	PDP5031HD	PDPR03U	PDP503PU	PDPS06LR	PDKTS01		PWM1011	
		43" System	PDP4330HD	PDPR03U	PDP433PU	PDPS09LR	PDKTS01		NA	
	43" Monitor	PDP4300	NA	NA	NA	NA	NA			
	43" Monitor	PDP4310	NA	PDP4300	PDPS09LR	PDKTS01	NA			
Elite Model	43" Monitor	PRO800HD	NA	NA	NA	NA	NA			
	43" Monitor	PRO800HDI								
	50" Monitor	PRO1000HD								
	50" Monitor	PRO1000HDI								
	50" System	PDP5040HD						PDPR04U	PDP504PU	PDPS12LR
G4	Regular Model	50" System	PDP5041HD	PDPR04U	PDP504PU	PDPS12LR	PDKTS04	PWM1011		
		43" System	PDP4340HD	PDPR04U	PDP434PU	PDPS13LR	PDKTS04	NA		
		43" System	PDP4341HD	PDPR04U	PDP434PU	PDPS13LR	PDKTS04	PWM1011		
		50" Monitor	PDP5004C	NA	PDP5004	PDPS28LR	PDKTS07	NA		
		43" Monitor	PDP4312	NA	PDP4304	PDPS27LR	PDKTS07	NA		
		50" Monitor	PDP5004	NA	NA	NA	NA			
		50" Monitor	PDP5014							
		43" Monitor	PDP4304							
		43" Monitor	PDP4314							
		Elite Model	50" System	PRO1110HD	PROR04U	PRO504PU	PDPS19LR	PDK1011	NA	
43" System	PRO910HD		PROR04U	PRO434PU	PDPS20LR	PDK1011	NA			
50" Monitor	PRO1010HD		NA	NA	NA	NA				
43" Monitor	PRO810HD									
G5	Regular Model		50" System	PDP5045HD	PDPR05U	PDP504PU	PDPS12LR	PDKTS04	NA	
		43" System	PDP4345HD	PDPR05U	PDP434PU	PDPS13LR	PDKTS04	NA		
		43" System	PDP4350HD	PDPAR05U	PDP435PU	PDPS30LR	PDKTS05	NA		
		43" System	PDP4351HD	PDPAR05U	PDP435PU	PDPS30LR	PDKTS05	PWM1011		
		50" System	PDP5050HD	PDPAR05U	PDP505PU	PDPS31LR	PDKTS05	NA		
		50" System	PDP5051HD	PDPAR05U	PDP505PU	PDPS31LR	PDKTS05	PWM1011		
		43" One body	PDP43A5HD	NA	PDP4350SX	PDPS33LR	PDKTS10	NA		
		50" One body	PDP50A5HD	NA	PDP5050SX	PDPS34LR	PDKTS10	NA		
		50" System	PRO1120HD	PROR05U	PRO505PU	PDPS23LR	PDK1012	NA		
		Elite Model	43" System	PRO920HD	PROR05U	PRO435PU	PDPS24LR	PDK1012	NA	

PLASMA BREAKDOWN MODELS LIST

Note: For consumer model : Model # = Media receiver + Panel + Speakers + Table top stand + Wall mount bracket
Some models MIGHT not have Media receiver, Speakers, Table Top stand or Wall mount bracket
2. "G" means Generation
3. "Brown" color is new models

		Consumer Models							Industrial Models	
	Type	Model #	Media receiver	Plasma Display	Speakers	Table top stand	Wall mount bracket	Size	Model #	
N3	Regular Model	PDP6100HD	NA	NA	NA	NA	NA	61"	PDP614MX	
	Elite Model	PRO1410HD	NA	NA	NA	NA	NA	42"	PDP424MV	
H1	Regular Model	PDP42A3HD	NA	NA	NA	Installed	NA			
		PDP4214HD	NA	NA	NA	Installed	NA			
G6		PDP4360HD	PDPR06U	PDP436PU	PDPS37LR	PDKTS10	NA		PDP425CMX	
	Regular Model	PDP4361HD	PDPR06U	PDP436PU	PDPS37LR	PDKTS11	PWMF110	42"		
		PDP5060HD	PDPR06U	PDP506PU	PDPS38LR	PDKTS10	NA			
		PDP5061HD	PDPR06U	PDP506PU	PDPS38LR	PDKTS10	PWMF110			
	Elite Model	PRO930HD	PROR06U	PRO436PU	PDPS35	PDK1013	NA			
		PRO1130HD	PROR06U	PRO506PU	PDPS36	PDK1013	NA			
		PDP4270HD	NA	NA	NA	Installed	NA			
		PDP4271HD	NA	NA	NA	Installed	NA			
G7		PDP5070HD	NA	PDP5070PU	PDPS40	Installed	NA			
	Regular Model	PDP5071HD	NA	PDP5071PU	PDPS40	Installed	NA	42"	PDP427CMX	
		PDP6070HD	NA	PDP6070PU	PDPS41	PDKTS15U	NA	50"	PDP507CMX	
		PDP6071HD	NA	PDP6071PU	PDPS41	PDKTS15U	NA	60"	PDP607CMX	
		PDP5000EX	NA	NA	NA	NA	NA			
		PRO940HD	NA	NA	NA	Installed	NA			
		PRO1140HD	NA	PRO507PU	PDPS50	PDK1016	NA			
	Elite Model	PROFHD1	NA	NA	NA	NA	NA			
H2		PRO1540HD	NA	PRO607PU	PDPS51	PDKTS15U	NA			
	Regular Model	PDP4216HD	NA	NA	NA	Installed	NA			
G8		PDP5016HD	NA	NA	NA	Installed	NA			
		PDP4280HD	NA	NA	NA	Installed	NA			
	Regular Model	PDP5080HD	NA	NA	SMW1975A	Installed	NA			
		PDP5010FD	NA	NA	SMW1985A	Installed	NA			
		PDP6010FD	NA	NA	SMW1986A	Installed	NA			
		PRO950HD	NA	NA	NA	Installed	NA			
		PRO1150HD	NA	NA	SMW1976A	Installed	NA			
	Elite Model	PRO110FD	NA	NA	SMW1979A	Installed	NA			
		PRO150FD	NA	NA	SMW1980A	Installed	NA			

Optional Accessories

Part Number	Description	Models
PDK1000	Table Top Stand	PRO800 & 1000HD
PDK1014	Table Top Stand	PRO1410HD
PDK5001	Table Top Stand	PDP501MX
PWM4211	Flat wall mount bracket	For 42"
PWM4221	Tilt wall mount bracket	For 42"
PWM1011	Flat wall mount bracket(Single board)	For 50" and 43"
PDWB5003	Flat wall mount bracket(Dual board)	For 50" and 43"
PWM503	Tilt wall mount bracket (Dual board)	For 50" and 43"
PDKTS01	Table Top Stand	PDP4300, PDP504CMX & 434CMX
PDPS05LR	Side mount speakers	PDP504CMX & 434CMX
PDK50HW02	Interactive Touch Screen Device	PDP504CMX & 503CMX
PDK50HW03	Interactive Touch Screen Device	PDP504CMX & 503CMX
PDKTS02	Table Top Stand	PDP610MX
PWB6111	Flat wall mount bracket (Dual board)	PDP610MX
PWB6121	Tilt wall mount bracket (Dual board)	PDP610MX
PDK5011	Hang on wall unit	PDP503CMX
PDK5012	Ceiling mount kit	PDP503CMX
PDPS08LR	Under mount speaker	PDP4330HD
PDPS10LR	Side mount speakers	PDP610MX
PDA5002	Video card	PDP433 & 503CMX
PDA5003	Video card	PDP434 & 504
PDA5004	Video card	PDP434 & 504
PDAH02	PDP system cable (7M=23ft)	All models with MR
PDAH03	PDP system cable (10M=33ft)	All models with MR
PDAH03CL	PDP system cable (10M=33ft)	All models with MR, CL2 RATE
PDAH04	PDP Fiber optic system cable(30M=99ft)	All models with MR
PDAH05	PDP Fiber optic system cable(30M=99ft)	All models with MR, OFNR RATE
PDM6111	Flat wall mount bracket	For 61"
PDM6121	Tilt wall mount bracket	For 61"
PDKTS06	Table Top Stand	PDP614MX
PDPS29LR	Side mount speakers	PDP614MX
PDKFS03	Plasma Floating Stand	For all 43 and 50 inches
RAE1011	Floating Floor Stand with Swivel	For all 43 and 50 inches
PDPS11	Horizontal speakers	For 43 inches
PDKTS18	Plasma Floating Stand	For PDP6100HD
PWMF110	Flat wall mount bracket	For 50" and 43"
PDK-TS23	Table Top Stand	

Quick Reference

G-3 to G-8

Power Down

Shut Down

Trap Switch Reset

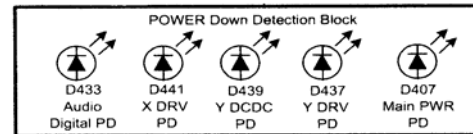
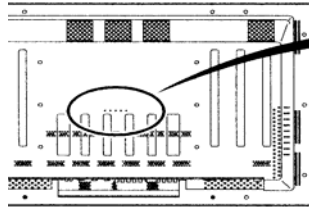
Service Remotes

POWER DOWN DIAGNOSIS BY LED DISPLAY BY GENERATION (GENERATION DETERMINED BY 3RD # IN MODEL PDP50_XXX)

RED (LED BLINKS)

Panel LED only..Not Media Receiver

G2 *



In G2 Models the LED does not blink. Lit LED indicates problem area.

BLINKS	G3 *	G4 *	G5	G6
1	Y DRIVE	MR POWER SUPPLY	MR POWER SUPPLY	UNUSED
2	Y DRIVE DC-DC	POWER SUPPLY	POWER SUPPLY	POWER SUPPLY
3	X DRIVE DC-DC	SCAN IC	SCAN IC	SCAN IC
4	X DRIVE	SCAN 5 VOLTS	SCAN 5 VOLTS	SCAN 5 VOLTS
5	POWER SUPPLY	Y DRIVE	Y DRIVE	Y DRIVE
6	ADDRESS	Y DRIVE DC-DC	Y DRIVE DC-DC	Y DRIVE DC-DC
7	ADR RESONANCE	Y SUSTAIN	Y DRIVE SUSTAIN	Y DRIVE SUSTAIN
8	DIGITAL VIDEO	ADDRESS	ADDRESS	ADDRESS
9		X DRIVE	X DRIVE	X DRIVE
10		X DRIVE DC-DC	X DRIVE DC-DC	X DRIVE DC-DC
11		X DRIVE SUSTAIN	X DRIVE SUSTAIN	X DRIVE SUSTAIN
12		DIGITAL VIDEO	DIGITAL VIDEO	

More detailed help in troubleshooting is available in the model specific sections, or in the product service manual.

**** Some Generation models have 2 versions with different part numbers and different service manuals!***

Model versions are determined by serial number.

**SHUT DOWN DIAGNOSIS BY LED DISPLAY BY GENERATION
(GENERATION DETERMINED BY 3RD # IN MODEL PDP50_XXX)**

GREEN or BLUE (LED BLINKS)

Panel LED Only....Not Media Receiver

BLINKS	G3 *	G4 *	G5	G6
1	PANEL MICRO	PANEL DRIVE IC COMMUNICATION	PANEL DRIVE IC COMMUNICATION	HD DIGITAL
2	DIGITAL 11C COMMUNICATION	MODULE 11C COMMUNICATION	MODULE 11C COMMUNICATION	HD DIGITAL HD AUDIO
3	** Condensation	DIGITAL DC-DC CONVERTER	DIGITAL DC-DC COMMUNICATION	HD DIGITAL 8V POWER SUPPLY
4	TEMP ABNORMALITY	PANEL OVERTEMP	PANEL OVERTEMP	PANEL OVERTEMP
5	** Fan Abnormality	AUDIO FAILURE	AUDIO FAILURE	HD AUDIO
6	** Module Microcomputer	MODULE MICRO COMMUNICATION	MODULE MICRO COMMUNICATION	
7	** Wide Microcomputer	MAIN SERIAL 3WIRE COMMUNICATION	MAIN SERIAL 3WIRE COMMUNICATION	
8	** RGB-IIC Communication	MAIN 11C COMMUNICATION	MAIN 11C COMMUNICATION	
9	** Audio	MAIN MICRO COMMUNICATION	MAIN MICRO COMMUNICATION	
10		FAN FAILURE	FAN FAILURE	
11		MR OR PANEL OVERTEMP	MR OR PANEL OVERTEMP	
12		DIGITAL TUNER COMMUNICATION	DIGITAL TUNER COMMUNICATION	
13		MR-ASIC COMMUNICATION	MR-ASIC COMMUNICATION	
14		IF-EEPROM COMMUNICATION		

More detailed help in troubleshooting is available in the model specific sections, or in the product service manual diagnostic sections.

**** Some Generation models have 2 versions with different part numbers and different service manuals!***

***** G-3 PRO & CMX Models.***

Model versions are determined by serial number.

LEDs		Cause
RED	BLUE	
	Blue 1	SQ IC (Digital Ass'y)
	Blue 2	Module uCom IIC Communication (Digital or Sensor Ass'y)
	Blue 3	DIGITAL-RST2 (Digital Ass'y)
	Blue 4	Panel High or Low Temperature (Sensor Ass'y)
	Blue 5	Audio
	Blue 6	Module uCom Communication (Main or Digital Ass'y)
	Blue 7	Main Ass'y 3Line Serial Communication (Main Ass'y)
	Blue 8	Main IIC Communication (Main, Tanshi, or <i>Audio</i> Ass'y)
	Blue 9	Main uCom Communication to IF uCom (Main Ass'y)
	Blue 10	FAN (Connection, Breakdown)
	Blue 11	High Temperature (Tanshi Ass'y)
	Blue 12	Digital Tuner Communication (Main Ass'y)
	Blue 13	MTB-RST2/RST4 (Main Ass'y or Pwr Supply +12V)
	Blue 14	HOME GALLERY Error - Elite (HN Module Ass'y)
	Blue 15	Main EEPROM (Main Ass'y)
Red 2		POWER SUPPLY, X-DRIVE, or Y-DRIVE Ass'y
Red 3		SCAN (SCAN IC, X-Drive, or Y-DRIVE ASS'Y)
Red 4		SCN-5V (SCAN IC OR Y-DRIVE ASS'Y)
Red 6		Y-DCDC (Y-DRIVE Ass'y)
Red 7		Y-SUS (Y-DRIVE Ass'y)
Red 8		ADRS (ADDRESS ASS'Y or connectors to Y, X, or Digital)
Red 9		X-DRIVE Ass'y or connectors to Digital Ass'y
Red 10		X-DCDC (X-DRIVE ASS'Y)
Red 11		X-SUS (X-DRIVE ASS'Y)
		Trap Switch
	Blinking	No Backup (Digital Ass'y)

Pioneer plasma reference 3rd to 5th generation

	<i>Integrator mode</i>	<i>Factory mode</i>	<i>Data backup</i>	<i>Trap indication</i>	<i>Trap override</i>	<i>PDP display w/o media receiver</i>	<i>Media receiver kit</i>
G3 PU	n/a	3 or 4	IC1204 Digital video	Red blinks fast	Enter factory mode	E01	PDP-R03U-SK
PRO1000HD PRO800HD	1, locked	3	6	n/a	n/a	n/a	n/a
PRO1000HDi PRO800HDi	1	3	6	Red/green flash, pause	9	n/a	n/a
G3 CMX	1	3	6	n/a	n/a	n/a	n/a
G4 PU	1*	5	7	Red and green on	8	Red & green boxes	PDP-R04U-SK PRO-R04U-SK
G4 one piece	2 or n/a	5	7	Red and green on	n/a or 8	n/a	n/a
G5 PU	1*	5	7	Red and green on	8**	Red & green boxes	PDP-R05U-SK PRO-R05U-SK PDP-AR05U-SK
G5 SX	10*	5	7	Red and green on	8	n/a	n/a

*RS232 change only. Disables remote.

**Only media receiver has trap.

- 1) From standby, push menu, then power.
- 2) From standby, push display (shows call 1), hold display (shows call 2), menu.
- 3) From standby, push menu, then set, then power.
- 4) From standby, push set, then display, then power.
- 5) From standby, press display, wait 4 seconds; then left, up, left, right, power in sequence.
MR must be connected for PU models.
- 6) Use digital video for service. Data from RGB loads at power on.
- 7) Use digital video for service. In factory mode, info layer go to digital EEPROM.
Should be adjust N/G, backup OK. Push set, select data transfer-yes.
Goes to service part; select no. If replacing RGB or MR I/F data updates at power off.
- 8) Go to initialize layer of factory mode and hold display key until red led goes out.
- 9) Hold input until LEDs stay lit. Then push down, input, up, power in sequence.
- 10) Hold the VOLUME up or down key for 3-10 seconds. Then within 3 seconds hold the SPLIT key for 3-10 seconds.
Then within 3 seconds use the ENTER key to set to RS-232C (the baud rate last selected is chosen) or the HOME MENU key to set to SR+.

Power Supply Upgrade

3rd generation units that have power supply AXY1059-A to G are being covered for an upgrade to AXX1064 (AXY1059-H). See bulletin for details. Serial # is on lower edge of front bezel, except for PRO, which are adjacent to input jacks. An orange dot indicates upgrade is done. Customer responsible for other repairs.

Trap Switch Reset Procedure

G-4, G-5, G-6, G-7, G-8

- Replace media receiver, plasma panel cover, or tape down HDCP trap switch.
If the model in question has the TV Guide option, the TV Guide option must be turned off before proceeding.
- Using the customer's remote control enter "**service mode**" by pressing the following key sequence:
 1. Press the "**display**" button then release the "**display**" button.
 2. Wait between 3 and 7 seconds
 3. Press and release the "<", "^", "<", ">", and "**power**" buttons in sequence.
 - Panel will now turn on in "**service mode**".
 4. Press "**muting**" button 3, 4 or 5 times depending on model you are working on.
Until the display shows the "**initialize**" page.
 5. Press and hold the "**display**" button until the error indicator (red LED) on either the panel or the media receiver goes out.
 6. Exit service mode by pressing the "**power**" button on the remote.

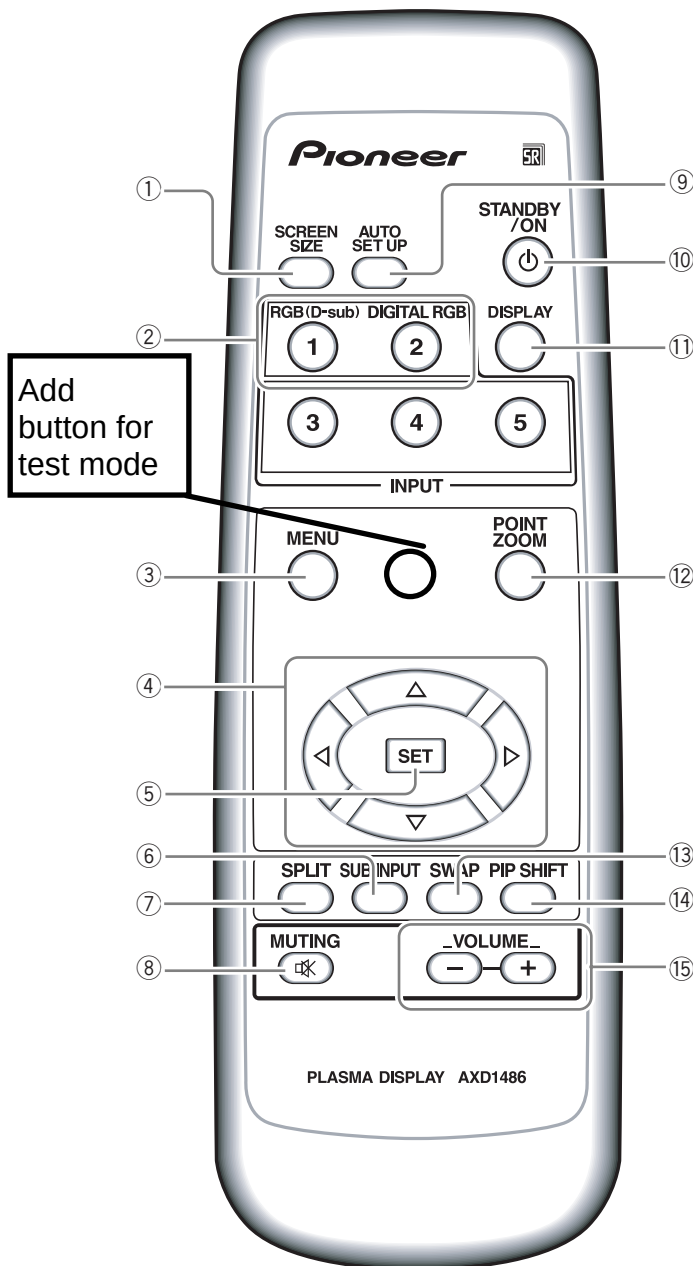
**If a circuit failure will not permit the unit to remain powered-on long enough to complete the above procedure, clear the Trap Switch as follows:
(You will not be able to see the menus.)**

1. Turn off Main Power Switch on Panel or unplug panel.
 - Depending on which model you are working on, place switch on Digital Assembly from "**Normal**" to "**Off**" or use a clip to short the high voltage. Shorting connections located on upper right corner of digital video board. (preventing high voltages from activating)
2. Place Main Power back on.
 - Confirm both Media Receiver and Panel are in standby mode (unit that is trapped will still have both red and green LEDs lit)
3. Press the "**display**" button then release the "**display**" button.
 - Wait between 3 and 7 seconds
4. Press and release the "<", "^", "<", ">", and "**power**" buttons in sequence.
 - Listen to panel carefully. There will be a very slight relay click. Panel will now turn on in "**service mode**" with only the low voltage supplies operating. (no picture)
5. Press "**muting**" button 3, 4, or 5 times depending on the model you are working on.
6. Press and hold the "**display**" button until the error indicator (red LED) on either the panel or the media receiver goes out.
7. Turn soft power off, then main power off or unplug unit.
 - Wait 20 seconds
8. Return switch on Digital Assembly to Normal position or remove shorting clip.
9. Power back on and troubleshoot normally.

TRAP SWITCH RESET FOR G-3

Press and release "**menu,enter,power**" in sequence or "**enter,display,power**"
Exit service mode by turning off power.

■ REMOTE CONTROL UNIT (AXD1486).



- ① **SCREEN SIZE button**
Press to select the screen size.
- ② **INPUT buttons**
Press to select the input .
- ③ **MENU button**
Press to open and close the on-screen menu.
- ④ **ADJUST (▲ / ▼ / ► / ◄) buttons**
Use to navigate menu screens and to adjust various settings on the unit.
Usage of cursor buttons within operations is clearly indicated at the bottom the on-screen menu display.
- ⑤ **SET button**
Press to adjust or enter various settings on the unit.
- ⑥ **SUB INPUT button**
During multi-screen display, use this button to change inputs to subscreens.
- ⑦ **SPLIT button**
Press to switch to multi-screen display.
- ⑧ **MUTING button**
Press to mute the volume.
- ⑨ **AUTO SET UP button**
When using computer signal input, automatically sets the [POSITION], [CLOCK] and [PHASE] to optimum values.
- ⑩ **STANDBY/ON button**
Press to put the unit in operation or standby mode.
- ⑪ **DISPLAY button**
Press to view the unit's current input and setup mode.
- ⑫ **POINT ZOOM button**
Use to select and enlarge one part of the screen.
SWAP button During multi-screen display, use this button to switch between main screen and subscreen.
- ⑭ **PIP SHIFT button**
When using PinP mode with multi-screen display, use this button to move the position of subscreen.
- ⑮ **VOLUME (+/-) buttons**
Use to adjust the volume.

RS232 control of PU units requires an interface and system cable.

G3. GGF1428

G4 & 5. GGF1475

Remote Control Keys	Basic Functions	Remarks
MUTING	Switching the main items.	Shifting to the next main item (top).
↓ (DOWN)	Switching the subtitled items.	Shifting downward to the next subtitled item.
↑ (UP)	Switching the subtitled items.	Shifting upward to the next upper layer.
← (LEFT)	Decreasing the adjustment value.	Decreasing the adjustment value.
→ (RIGHT)	Increasing the adjustment value.	Increasing the adjustment value.
ENTER/SET	Switching the layers.	Shifting downward or upward to the next lower or upper layer.
INPUT	Selecting INPUT.	Shifting the INPUT to the next function.
INPUTxx	Selecting INPUT.	Switching the INPUT to xx. (xx=1 to 7 etc)
CH+/P+	Increasing the channel number.	
CH-/P-	Decreasing the channel number.	
Numeric Keys	Function: TV	Function: TV (previously selected channel number is selected)
POWER	Power OFF.	Turning the power off.
FACTORY	Factory OFF (Factory mode)	In Factory mode, turning Factory mode off.
	Factory ON (Non-Factory mode).	In Non-Factory mode, turn Factory mode on.
HOME MENU	Menu ON.	In Factory mode, turn Factory mode off.
VOLUME+	Volume UP.	Increasing 10 the adjustment value. (PANEL FACTORY)
VOLUME-	Volume DOWN.	Decreasing 10 the adjustment value. (PANEL FACTORY)
DRIVE OFF (Note1)	Drive Mode OFF.	Turning Drive mode off.
INTEGRATOR	INTEGRATOR MENU ON.	Enter INTEGRATOR MODE.

(Note 1) When ten seconds have passed since the [DRIVE OFF] key was pressed at the standby, it becomes invalid.
Please press [POWER] key from the [DRIVE OFF] key pressing within ten seconds when you do power supply ON while driven OFF.



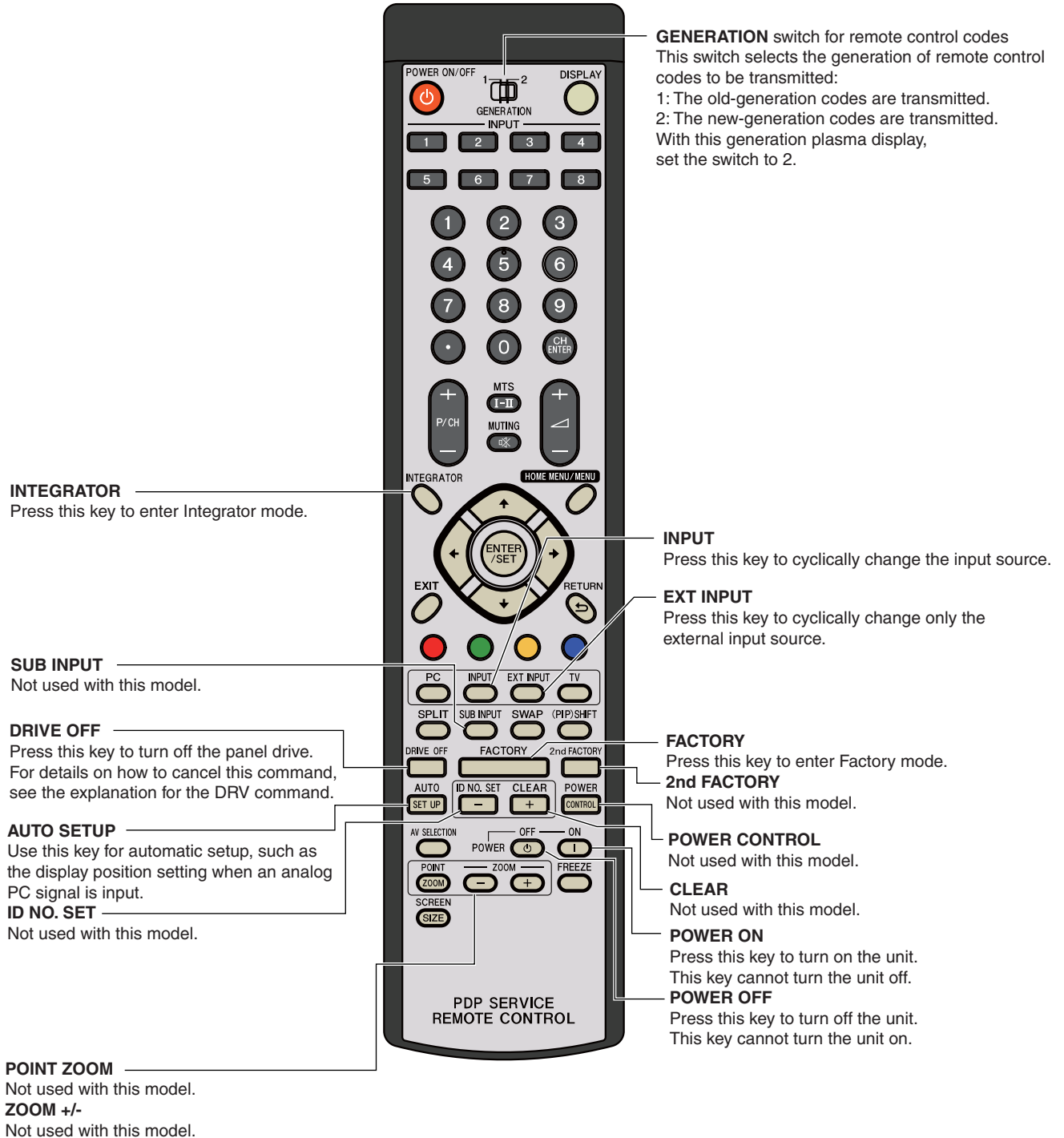
PDP service
remote control

GGF1589

Generation 4 to 8 New Test Remote

GGF1589

- The keys labeled with the same names on the service remote control unit have the same functions as those of the supplied remote control unit. (See "2.3 PANEL FACILITIES.")
- For the keys not provided on the supplied remote control unit, see the explanations below:



Mode Ls

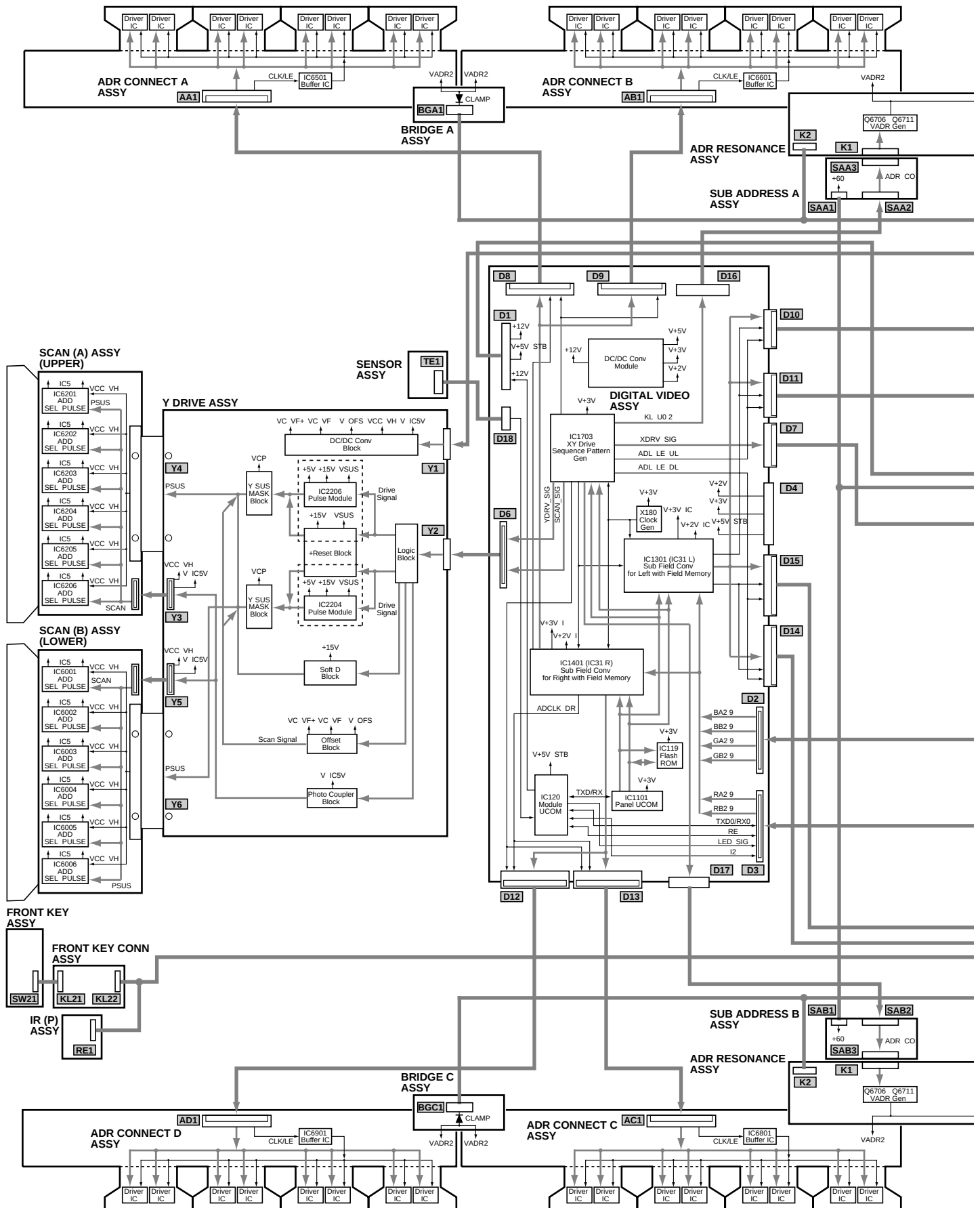
PDP433PU

PDP503PU

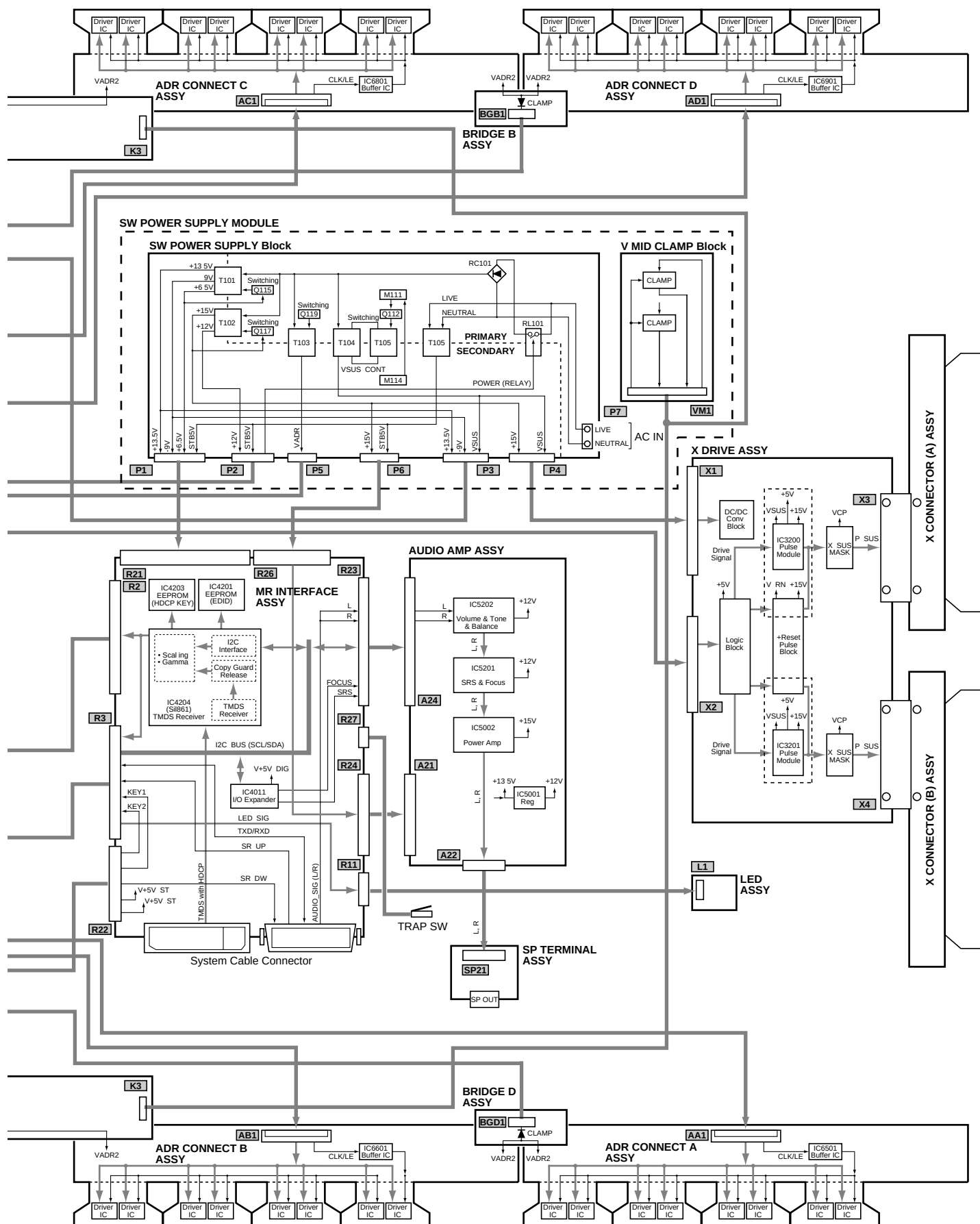
Block Diagrams

Shut-Down & Power-Down Diagnosis

PDP-433PU PDP-503PU Block Diagram



Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



This unit has self-diagnosis functions against abnormalities in the internal circuits and other operational abnormalities, and if any abnormality is detected, the STANDBY/ON indicator (LED) blinks to alert you of it.
 How the indicator blinks and possible failure points and power-down points are explained below:

● Shutdown

- Operations : When a microcomputer has detected an abnormality, it turns the power supply to OFF.
- LED display : Blinking in green

Example: How the LED blinks when DIGITAL-IIC communications fail

Number of blinking	Reason
1	Panel Microcomputer failure
2	DIGITAL-IIC communication failure
4	Temperature abnormality

How to release shutdown

Press the power key on the remote control to switch the unit back on.
 (It is not necessary to press the MAIN POWER button to turn off the unit.)

● Power-down

- Operations : In an emergency, the protection circuits are activated, and the power is turned off.
- LED display : Blinking red

Note: If more than two protection circuits are activated at almost the same time, the LED indicates this by its blinking-pattern.

Example: How the LED blinks for the first power-down (Y-DC/DC CONVERTER) and the second power-down (Y DRIVE)

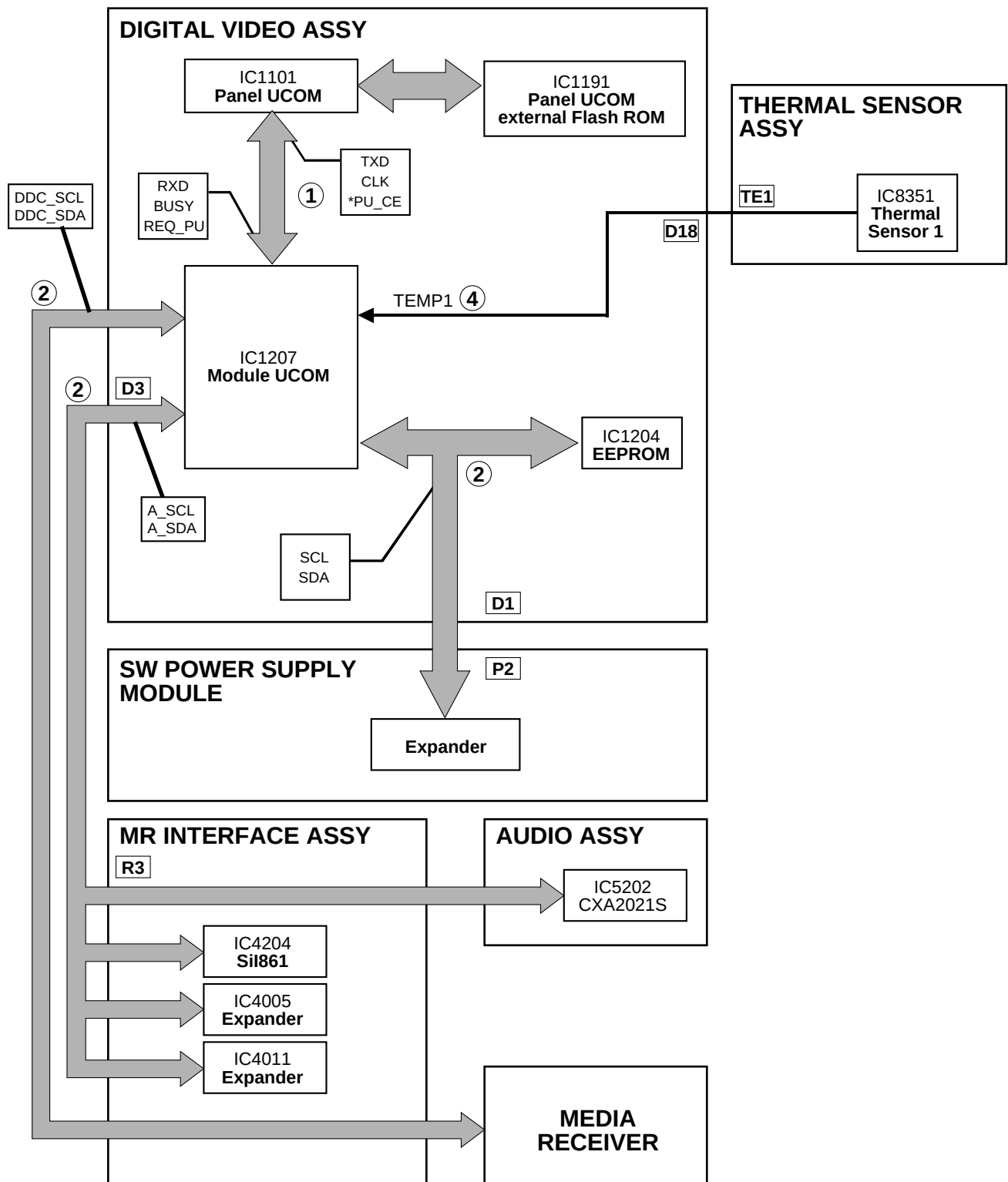
Number of blinks	Failure Point
1	Y-DRIVE
2	Y-DC/DC CONVERTER
3	X-DC/DC CONVERTER
4	X-DRIVE
5	Power supply
6	Address junction
7	Address resonance
8	DIGITAL-DC/DC CONVERTER

How to release power-down

Set the MAIN POWER button to OFF, and wait for about 30 seconds until the LED for PD (power-down) in the power-supply module is extinguished. Wait another 5 seconds, then recover the unit by setting the MAIN POWER button to ON.

Note: After power-down is released, the unit restarts and goes to Standby mode.

● Block Diagram of the Shutdown Signal System ("STANDBY/ON" LED: Blinking in green)



Note: The figures ① - ④ indicate the number of times the "STANDBY/ON" LED blinks when shutdown occurs in the corresponding route.

PDP - 433PU
PDP - 503PU

● Shutdown diagnosis

① Panel microcomputer failure

Condition : When a module microcomputer failed in communication with a panel microcomputer

Results : An OSD is displayed for 30 seconds after the failure is detected; then the power is shut down.

Possible causes

- Open/short-circuit of the communication lines in the assembly

Screen display

E06

② DIGITAL-IIC communication failure

Condition : When a module microcomputer failed in communication with an external EEPROM or EXPANDER

Results : An OSD is displayed for 30 seconds after the failure is detected; then the power is shut down.

Note: A DIGITAL-IIC communication failure may occur in Standby mode.

Possible causes

- Open / Short-circuit of communication line in the DIGITAL VIDEO, MR INTERFACE and AUDIO Assys
- Breaking of wire between the following points:
DIGITAL VIDEO Assy (D1) ↔ SW POWER SUPPLY Module (P2)
DIGITAL VIDEO Assy (D3) ↔ MR INTERFACE Assy (R3)
MR INTERFACE Assy (R23) ↔ AUDIO Assy (A24)
System Cable

E06

③ Abnormally high temperature

Condition : when the internal temperature of the unit becomes abnormally high

Results : An OSD is displayed for 30 seconds after the failure is detected; then the power is shut down.

Note: If the internal temperature of the unit becomes lower while the OSD is displayed, the unit returns to normal operation.

Possible causes if this abnormality occurs in an environment in which the temperature is not so high

Disconnection between the DIGITAL VIDEO Assy (D18) and temperature sensor 1 (TE1)

E04

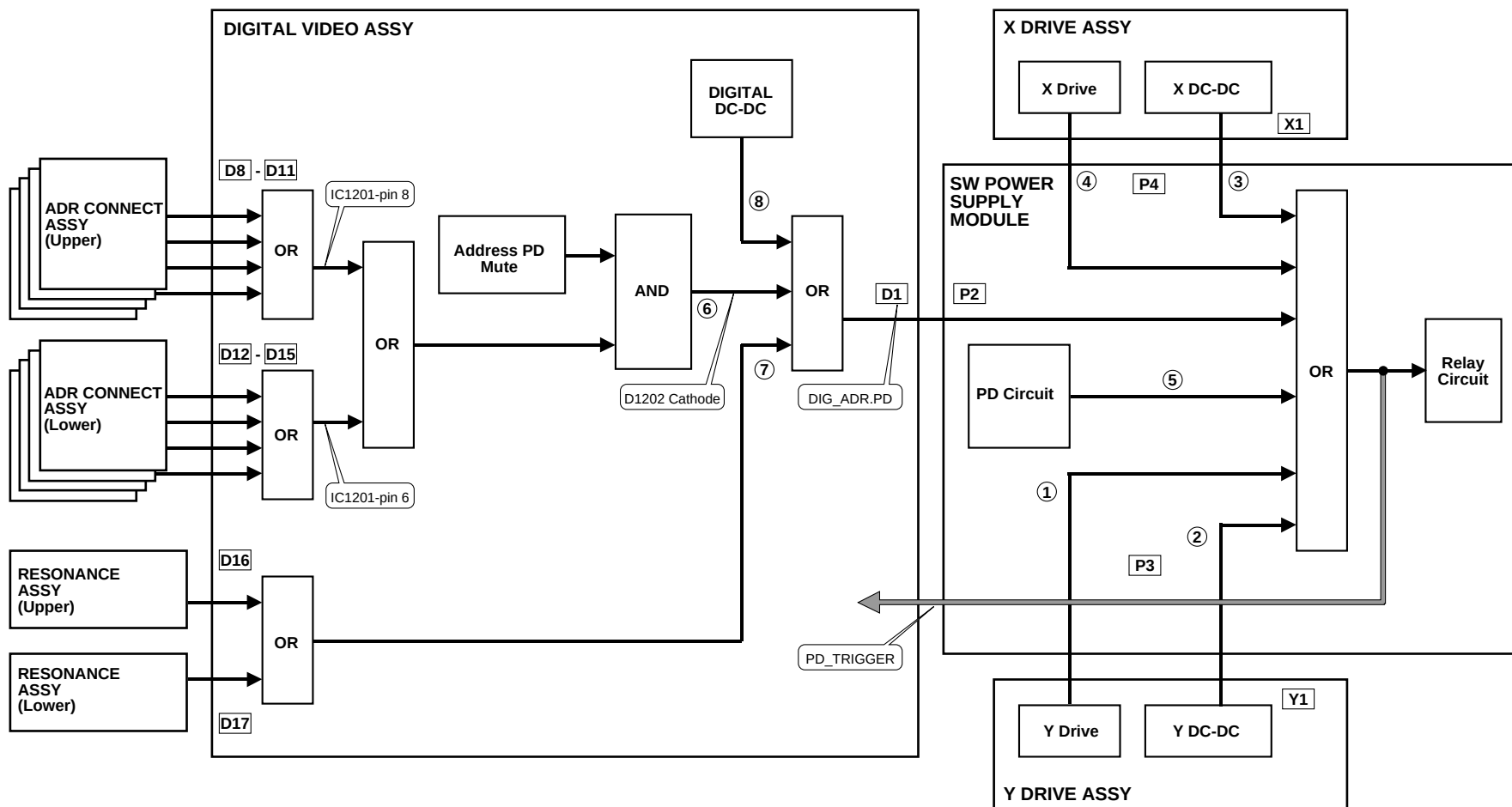
Reference

Shutdown temperature of the sensor
Sensor Temp ≥ 78

	1/13		INPUT1 No	SIG
1	CENTER Version	MR MAIN E	2001/09/25	H
2	OSD Version	MR OSD	2001/09/10	A
3	CVIC Version	W2001/09/12	09:00	X2001/09/12 09:07 V2001/09/12 09:10
4	TTXP Version	TTX PRG		061
5	MONITOR Version	F6 91 10		
6	PANEL Version	-00		
7	FLASH Version	-05		
8	MONITOR Model	01		
9	Model Select Main	0		
10	Model Select AV	4		
11	Model Select MONITOR	0		
12	Sensor Temp	+28		
13	Center Acutime	16	H	41 M
14	RESET	OFF		
15	Monitor Acutime	47	H	42 M
16	RESET	OFF		
17	Pulse Acutime	164		
18	RESET	OFF		

PDP-433PU
PDP-503PU

Power Down (Blinking in RED)



Note: The figures ① - ⑧ indicate the number of times the "STANDBY/ON" LED blinks when shutdown occurs in the corresponding route.

Models

PDP433CMX

PDP503CMX

PDP4300

PR0800HD & HDI

PR01000HD & HDI

Block Diagrams

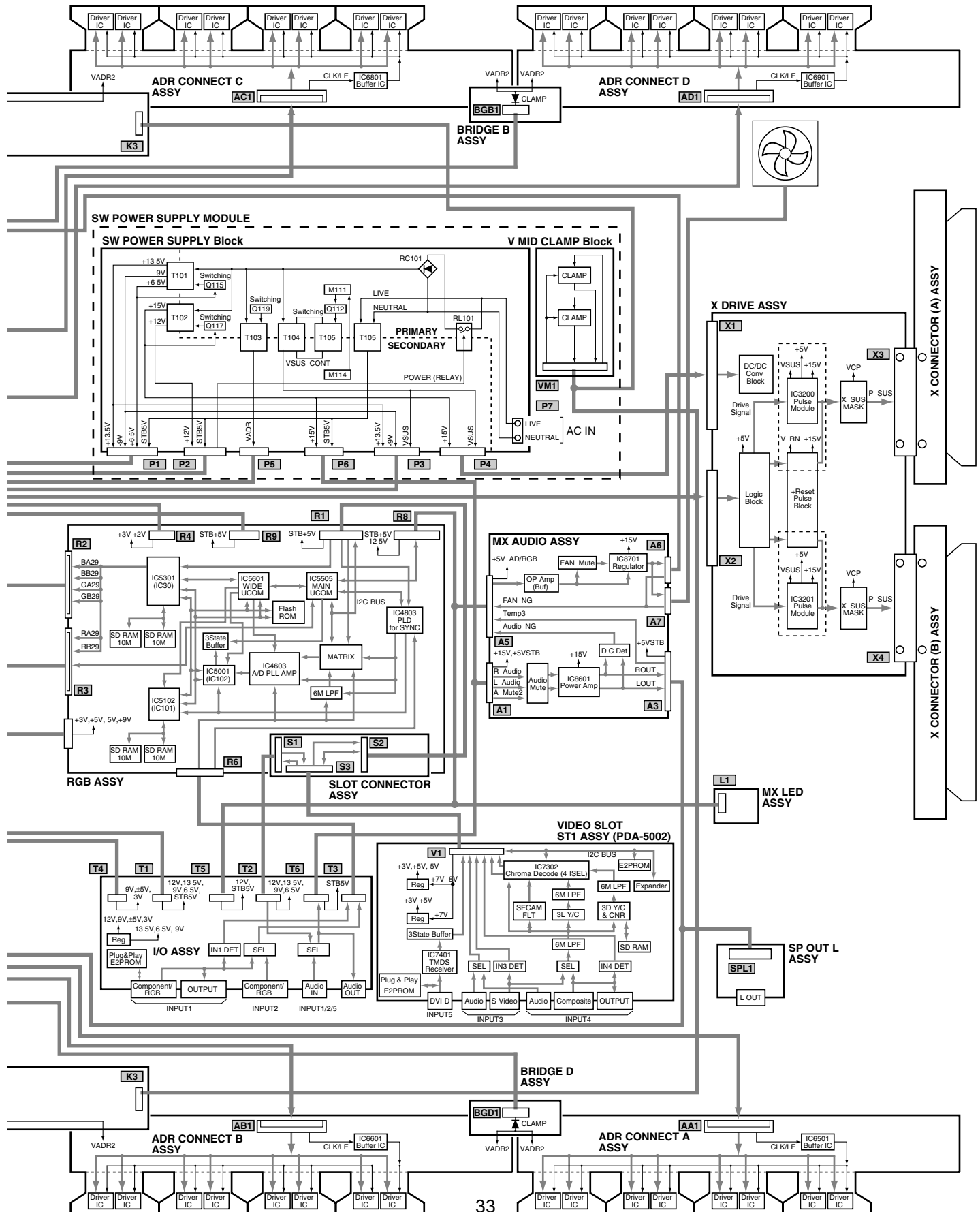
Basic Service Factory Mode

Shut-Down & Power-Down Diagnosis

PR0800HD, PR01000HD, PDP433CMX, PDP503CMX, PDP4300 Block Diagram

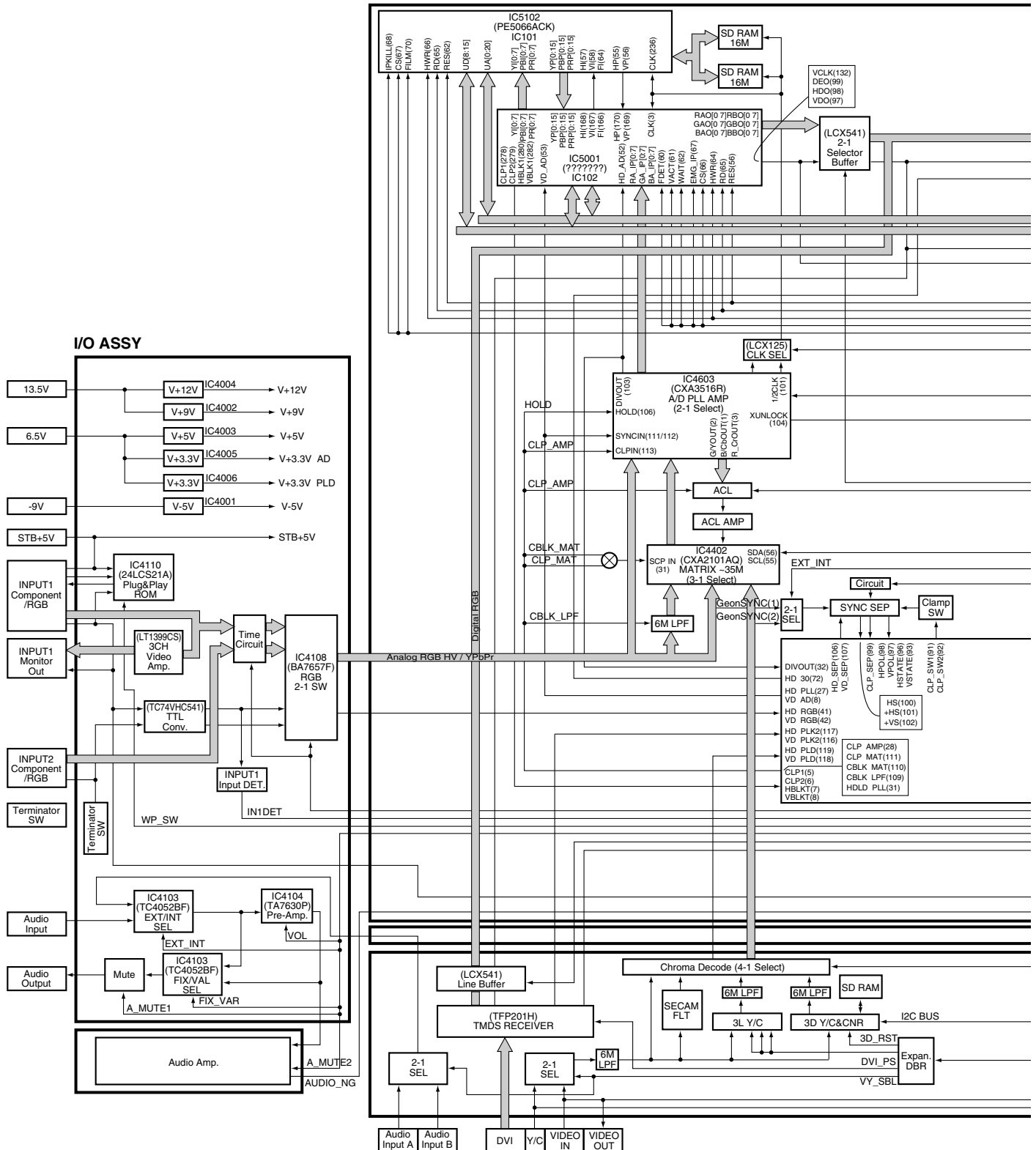


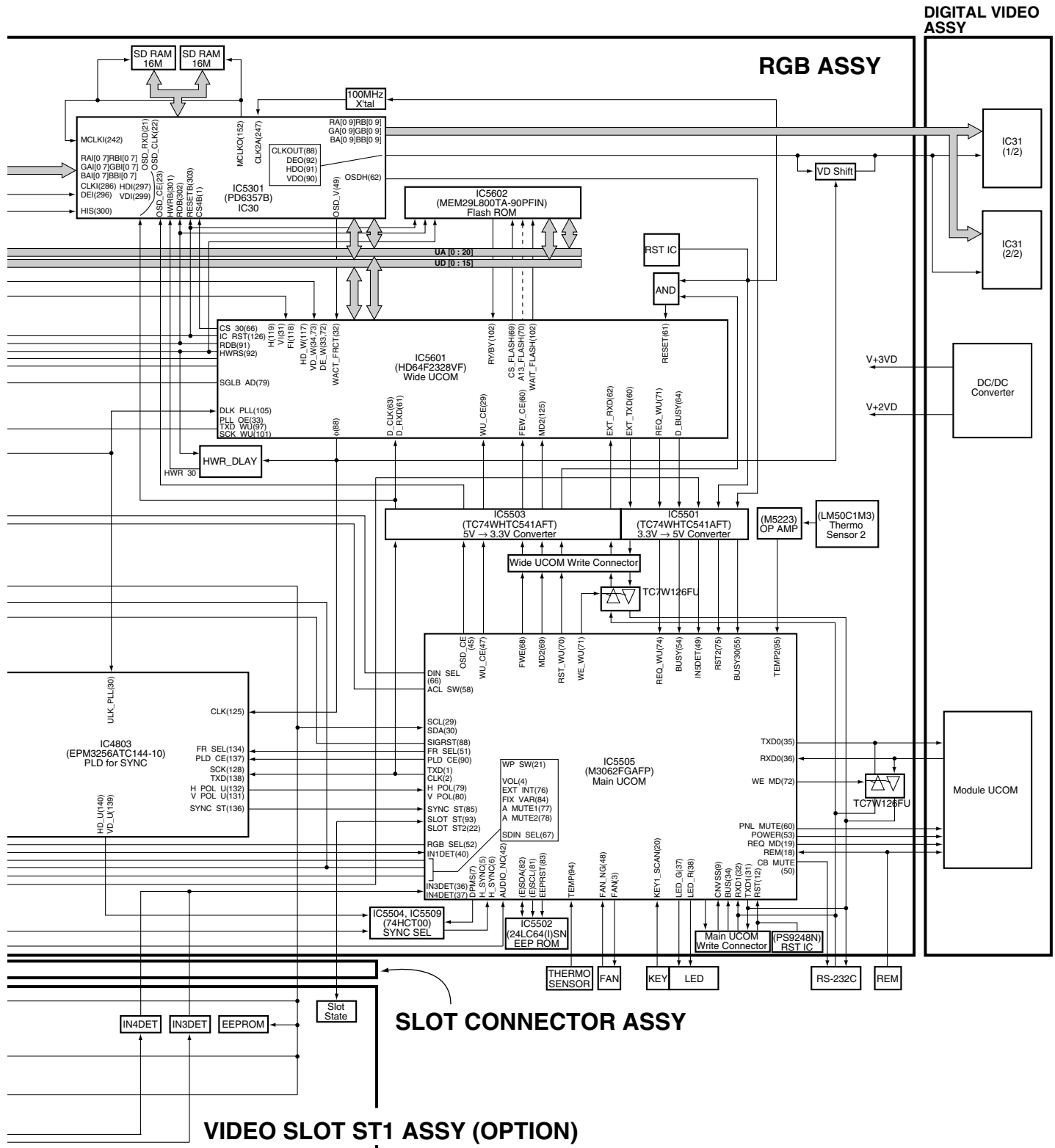
Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



PR0800HD,
PR01000HD,
PDP433CMX,
PDP503CMX,
PDP4300

RGB ASSY

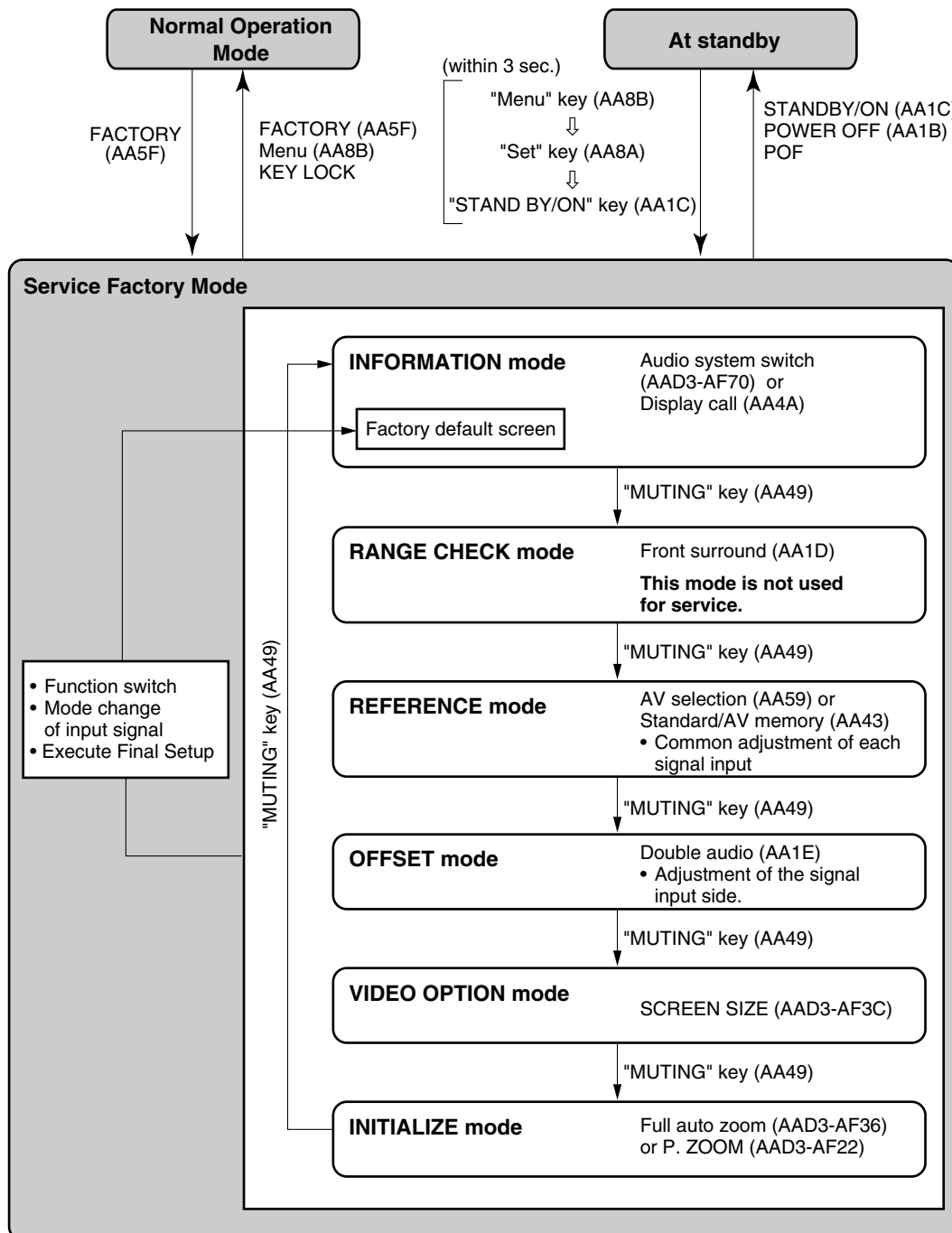




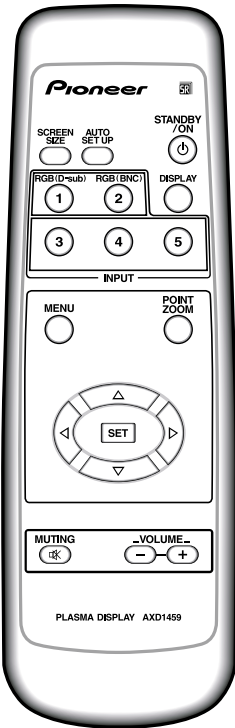
SERVICE FACTORY MODE

Perform the operations of Service Factory mode using the Remote Control Unit provided with the Plasma Display (AXD1459).

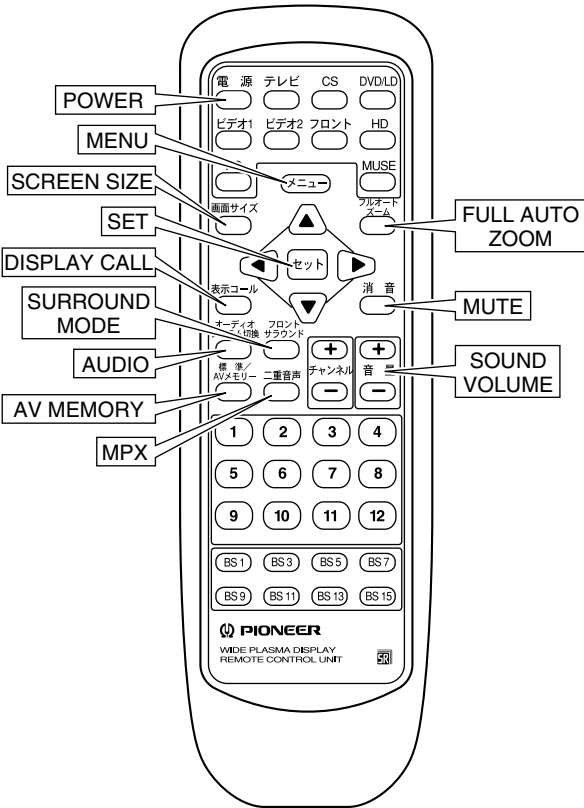
State Transition Diagram



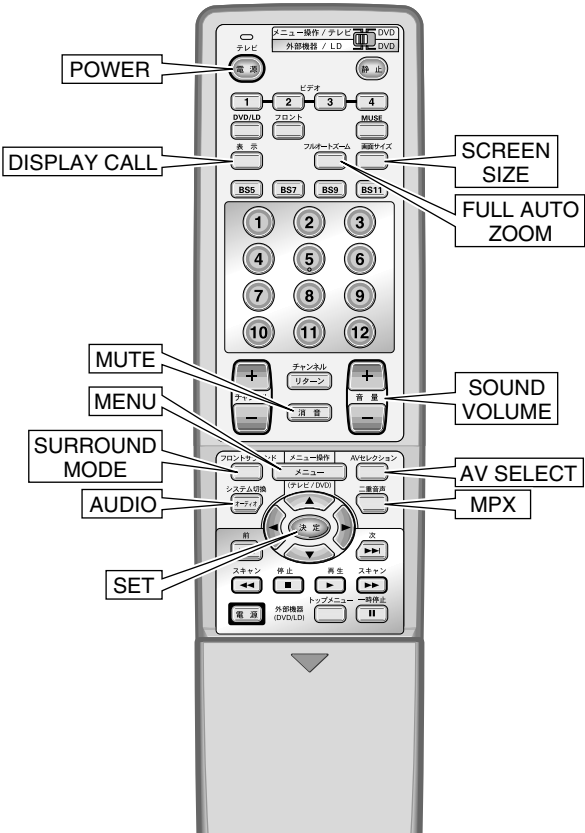
PR0800HD,
PR01000HD,
PDP433CMX,
PDP503CMX,
PDP4300



• AXD1459
(PDP-503CMX / PDP-433CMX)



• AXD1432
(PDP-501HD)



• AXD1673
(PDP-502HD)

SHUT DOWN/POWER DOWN DIAGNOSIS BY LED DISPLAY

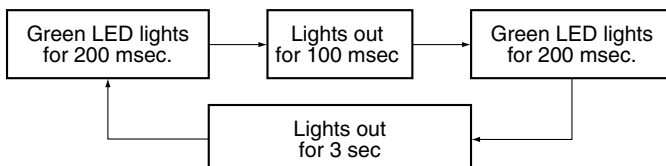
When internal circuit abnormality and other operation abnormality occurred from this unit, self-diagnose display function by STANDBY/ON (LED) indicator is loaded.

Each NG point by LED blinking and a PD (power down) point are as follows.

● Shut Down

- Operations : When a microcomputer detected abnormality, turn the power supply to OFF.
- LED display : Green blinks

Examples: LED blinks in the DIGITAL-IIC communication NG



Number of blinks	Name
1	Panel Microcomputer NG
2	DIGITAL-IIC communication NG
3	Dewdrop abnormality
4	Temperature abnormality
5	FAN abnormality
6	Module microcomputer NG
7	Wide microcomputerNG
8	RGB-IIC communication NG
9	Audio NG

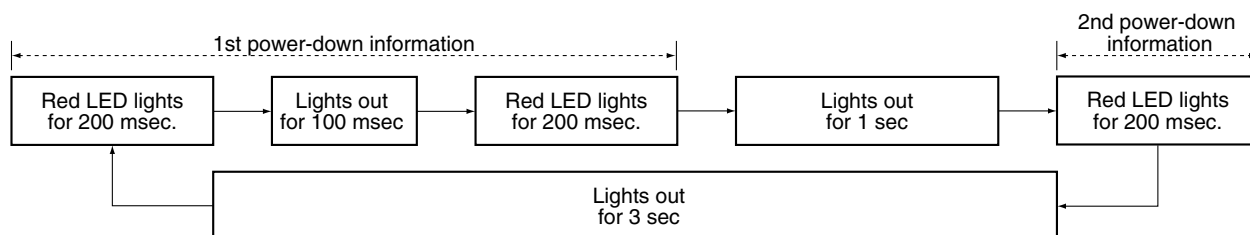
How to release the shut down state

When turn the power supply ON by remote control units, release from the shut down state, and turn the power supply ON.
(It is not necessary to turn the AC power OFF.)

● Power Down

- Operations : When this unit becomes the dangerous state, turn the power supply OFF with the protection circuit.
- LED display : Red blinks
- * When protection circuit more than two places almost worked simultaneously, display LED in order to 1st - 2nd.

Examples: LED blinks in the 1st power down = Y-DC/DC CONVERTER, 2nd power down = Y-DRIVE



Number of blinks	Name
1	Y-DRIVE
2	Y-DC/DC CONVERTER
3	X-DC/DC CONVERTER
4	X-DRIVE
5	Power supply
6	Address junction
7	Address resonance
8	DIGITAL-DC/DC CONVERTER

How to release the power down state

AC power OFF



Wait for PD LED in the power supply module disappearing (for around 30 seconds).



Afterwards, wait moreover for five seconds.

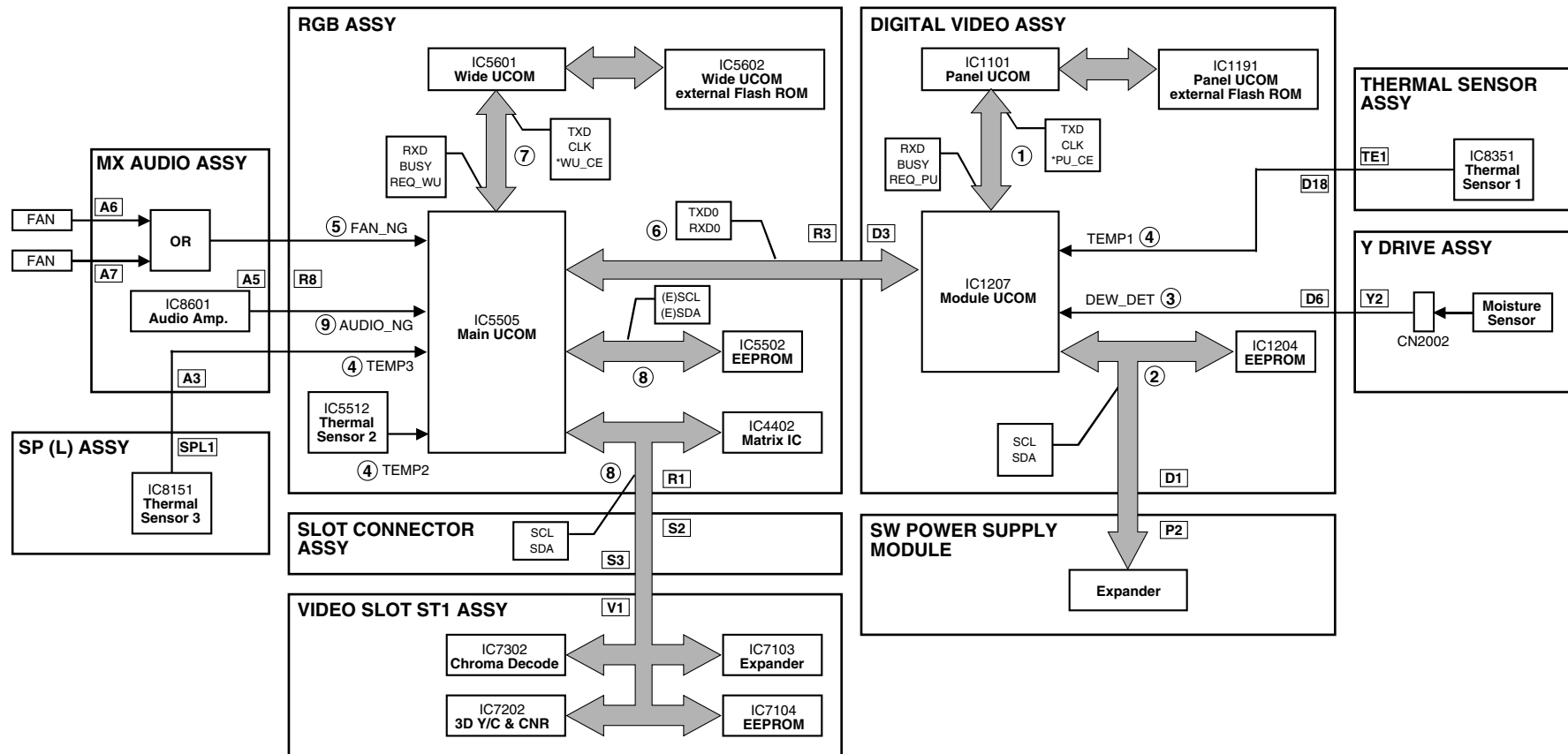


Return by AC power ON.

* After power down release, this unit rises up in the standby state.

PR0800HD,
 PR01000HD,
 PDP433CMX,
 PDP503CMX,
 PDP4300

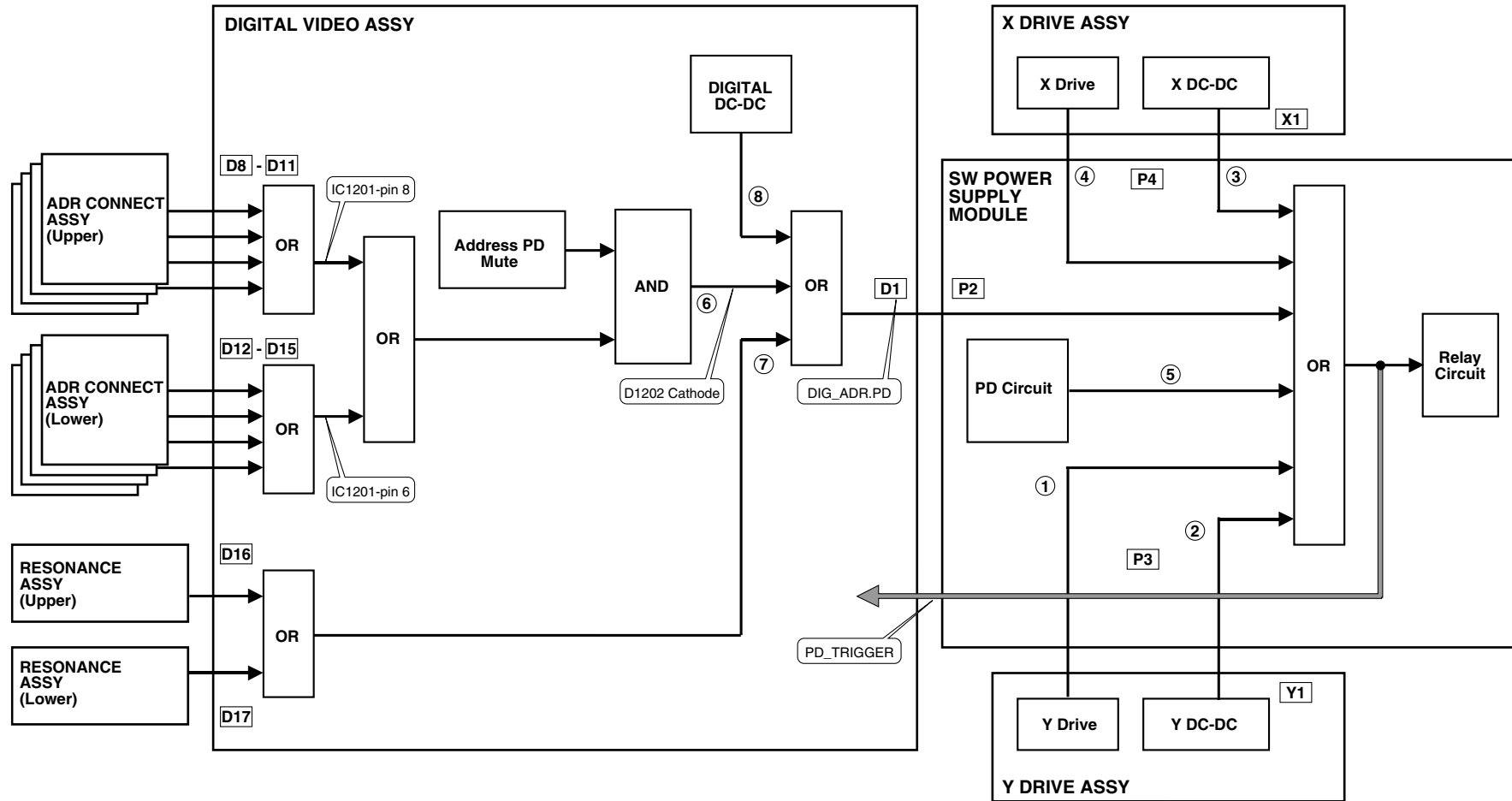
Shut Down (Blinking in Green)



Note: ① - ⑧ show LED flashing number of times when shut down occurred in this route.

PR0800HD,
PR01000HD,
PDP433CMX,
PDP503CMX,
PDP4300

Power down (Blinking in Red)



Note: ① - ⑧ show LED flashing number of times when power down occurred in this route.

Mode Ls

PDP434PU

PDP504PU

PR0434PU

PR0504PU

PDP435PU

PDP505PU

PR0435PU

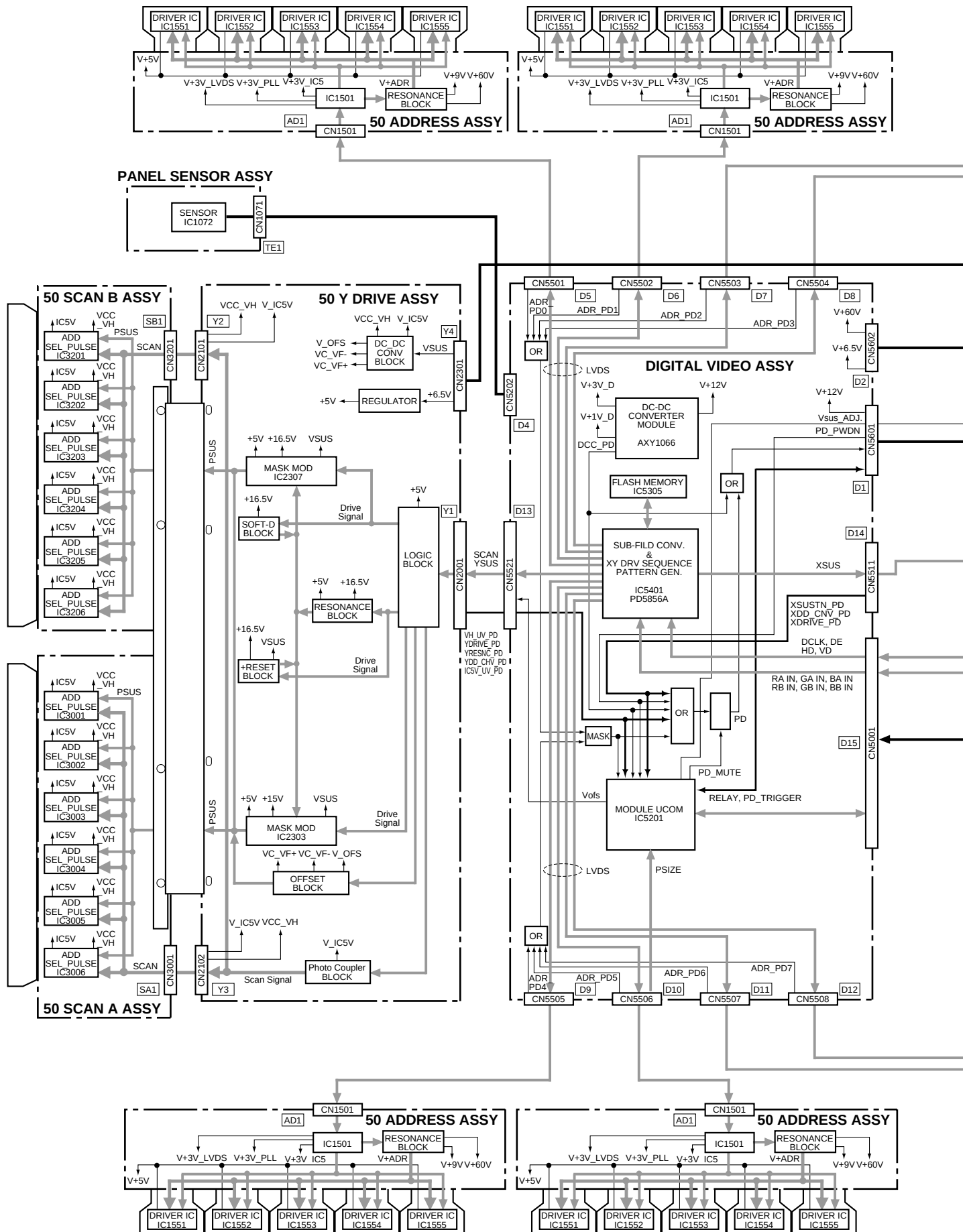
PR0505PU

Block Diagrams

Operation LED Statuses

Power-Down & Shut-Down Diagnosis

PDP434PU, PDP504PU, PR0434PU, PR0504PU, PDP435PU, PDP505PU, PR0435PU, PR0505PU
Block Diagram



• Operation statuses indicated by LEDs

		MR-LED	PANEL-LED	
Standby	RED GREEN			Normal
Power on	RED GREEN			
MR-AC power off	RED GREEN			
P-AC power off	RED GREEN			
MR power-down	RED GREEN			Abnormality in MR
MR shutdown	RED GREEN			
MR modification	RED GREEN			
P-power-down	RED GREEN			Abnormality in the panel
P-shutdown	RED GREEN			
P-modification	RED GREEN			
Disconnection of the system cable	RED GREEN			Disconnection of cable
Power management when the Media Receiver is not connected with the PDP	RED GREEN			

Note: "P" stands for panel.

- : Lit in red
- : Lit in green
- : Not lit

PDP434PU, PDP504PU,
PR0434PU, PR0504PU,
PDP435PU, PDP505PU,
PR0435PU, PR0505PU

How to enter the Factory Mode by Remote control.

- ① Set unit to Standby Mode
- ② Press and release the **DISPLAY** Button
- ③ Wait 7~10 seconds
- ④ **LEFT** Button (←)
- ⑤ **UP** Button (↑)
- ⑥ **LEFT** Button (←) - **Within 5 seconds**
- ⑦ **RIGHT** Button (→)
- ⑧ **POWER** Button

• Identification of locations having abnormality by the number of times the LEDs flash

■ On Shutdown and power-down

Shutdown

- Operation: When the microcomputer detects any abnormality, it forcibly turns off the unit.
- LED indication: The green LED flashes.

Power-down

- Operation: When the unit is in emergency status, a protection circuit is activated, and the power is turned off.
- LED indication: The red LED flashes.

Category	MR-LED		PANEL-LED		Content	Unit's operation	Warning indication when the MR is connected
	STB	ON	STB	ON			
SD	Lit			1 time	Communication failure of the panel-drive IC	Immediate shutdown	
	Lit			2 times	Communication failure of the module IIC	Immediate shutdown	
	Lit			3 times	Power decrease of the digital DC-DC converter	Immediate shutdown	
	Lit			4 times	Panel having high temperature	Shutdown 30 seconds after warning	Powering off. Internal temperature too high Check temperature around PDP. Check temperature around media receiver. [SD04]
	Lit			5 times	Audio failure	Shutdown 3 seconds after warning	Powering off. Internal protection circuits activated, Is there a short in speaker cable ? [SD05]
		6 times	Lit		Communication failure of the module microcomputer	Immediate shutdown	
		7 times	Lit		Main 3-wire serial communication in failure	Immediate shutdown	
		8 times	Lit		Communication failure of the main IIC	Immediate shutdown	
		9 times	Lit		Communication failure of the main microcomputer	Immediate shutdown	
		10 times	Lit		Fan in failure	Immediate shutdown	
		11 times	Lit		MR or unit having higher temperature	Shutdown 30 seconds after warning	Powering off. Internal temperature too high Check temperature around PDP. Check temperature around media receiver. [SD11]
		12 times	Lit		Communication failure of the digital tuner	Immediate shutdown	
		13 times	Lit		MR-ASIC power (DC-DC) in failure	Immediate shutdown	
		14 times	Lit		Communication failure of IF-EEPROM	Immediate shutdown	
PD	1 time		Lit		MR power supply	Immediate power-down	
	Lit		2 times		Panel-POWER SUPPLY	Immediate power-down	
	Lit		3 times		SCAN	Immediate power-down	
	Lit		4 times		SCAN-5V	Immediate power-down	
	Lit		5 times		Y-DRIVE	Immediate power-down	
	Lit		6 times		Y-DCDC	Immediate power-down	
	Lit		7 times		Y-SUS	Immediate power-down	
	Lit		8 times		ADDRESS	Immediate power-down	
	Lit		9 times		X-DRIVE	Immediate power-down	
	Lit		10 times		X-DCDC	Immediate power-down	
	Lit		11 times		X-SUS	Immediate power-down	
	Lit		12 times		DIGITAL-DCDC	Immediate power-down	
	Lit		15 times		UNKNOWN *	Immediate power-down	

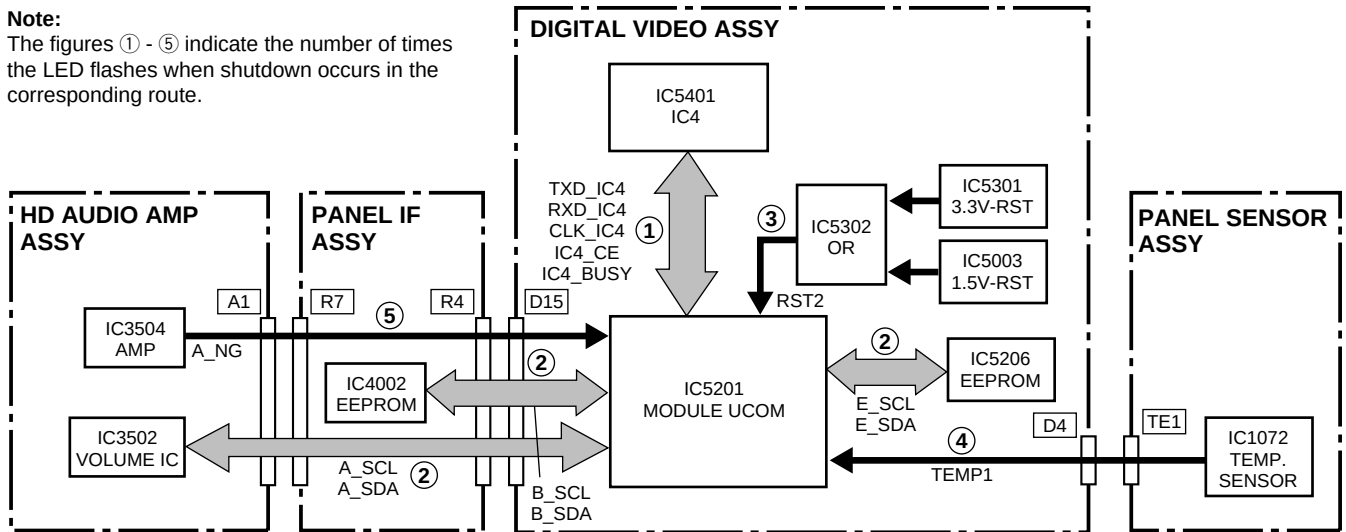
* If the unit cannot identify which protection circuit was activated, even if a power-down had been detected, the red LED may flash 15 times.

PDP434PU, PDP504PU, PR0434PU, PR0504PU, PDP435PU, PDP505PU, PR0435PU, PR0505PU

• Block diagram of the shutdown signal system

Note:

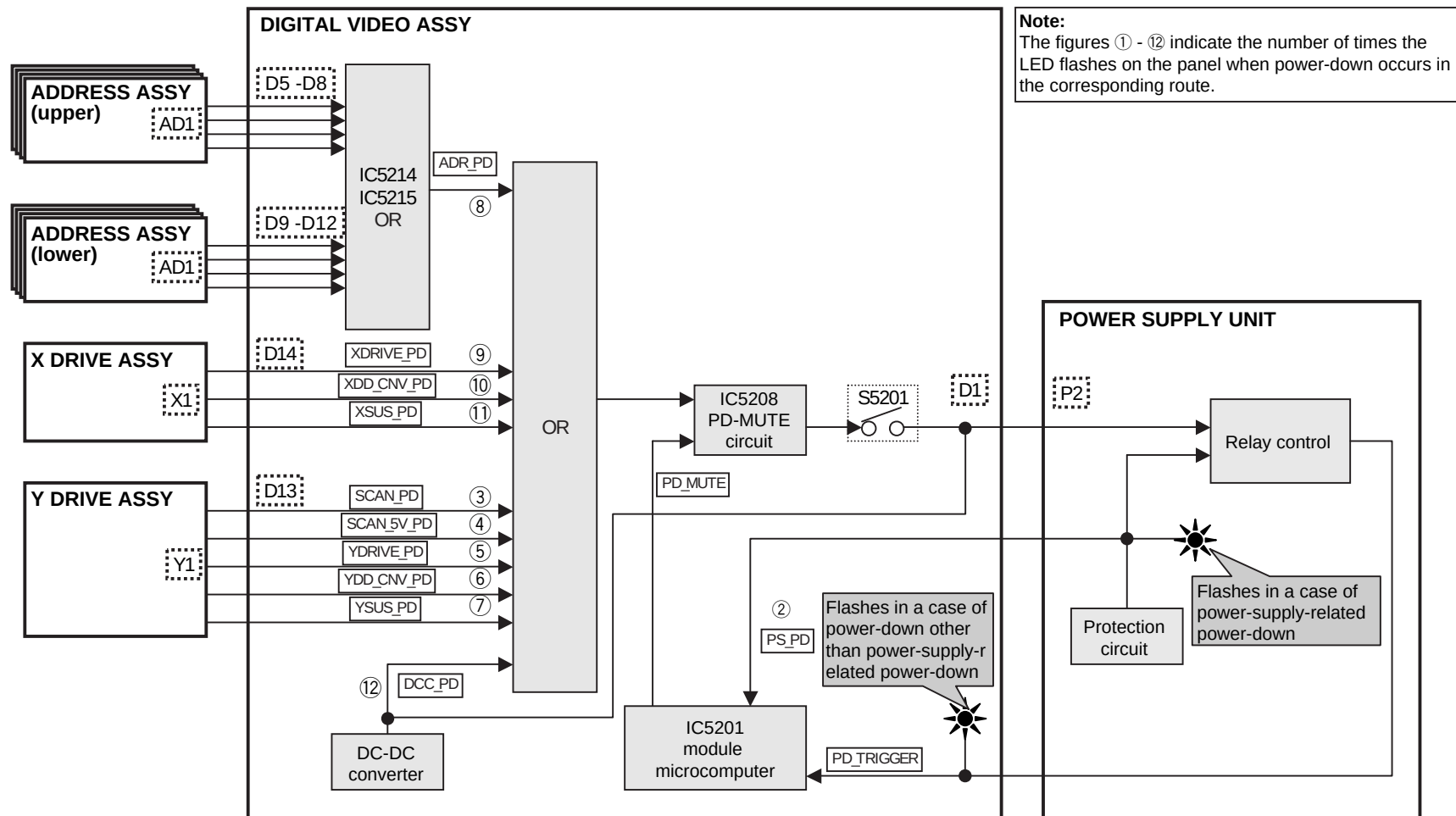
The figures ① - ⑤ indicate the number of times the LED flashes when shutdown occurs in the corresponding route.



• Diagnosis of shutdown

LED	SD Circuit in Operation	Defective Assy	Reason for Shutdown	Point to be Checked	Possible Defective Part	Remarks
1 time	Communication failure of the panel-drive IC	DIGITAL VIDEO	Communication failure of IC4	IC4 BLOCK, PANEL FLASH BLOCK	IC5401, IC5305	After turning the unit on again, check if the data on the version can be read with the GS1 command.
			Writing failure of IC4			
2 times	Communication failure of the module IIC (Check the shutdown subcategory on the Factory menu.)	DIGITAL VIDEO	Communication failure of the EEPROM (4K)	MODULE UCOM BLOCK	IC5206	Check if the cable is disconnected or not securely connected.
		PANEL IF	Communication failure of the EEPROM (2K)	PANEL IF BLOCK	IC4002	
			Disconnection of cable	CN4009 - CN3501		
		HD AUDIO	Defective volume IC	HD AUDIO AMP Assy	IC3502	
			Defective 114-pin FPC	CN4004 - CN5001	ADY1081	
3 times	Power decrease of DIGITAL-DC-DC	DIGITAL VIDEO	Defective DC-DC converter	DIGITAL DD CON BLOCK	U5601	Check if 3.3 V, 2.5 V, and 1.5 V are activated.
			Defective RST IC	PANEL FLASH BLOCK	IC5301, IC5302, IC5303	
		POWER SUPPLY	No startup of 12 V			
4 times	Panel having higher temperature	DIGITAL VIDEO	Cable disconnected	CN5202 - CN1071		Shutdown occurs when the sensor temperature becomes 77°C or more (PDP-434P) or 83°C or more (PDP-504P).
			Panel having higher temperature	Surrounding temperature		
5 times	Audio failure		Speaker short-circuited	Speaker terminals		Check if the speaker cables are in contact with the chassis, etc.
		HD AUDIO	Defective AMP IC	HD AUDIO AMP ASSY	IC3504	
		HD AUDIO	Disconnection of cable	CN4009 - CN3501		Check if the cable is disconnected or not securely connected.

Power Down (Blinking in Red)



PDP434PU, PDP504PU, PR0434PU, PR0504PU, PDP435PU, PDP505PU, PR0435PU, PR0505PU

Models

PDP434CMX

PDP504CMX

PDP505CMX

PDP4304

PDP4314

PDP5004

PDP5014

PR0810HD

PR01010HD

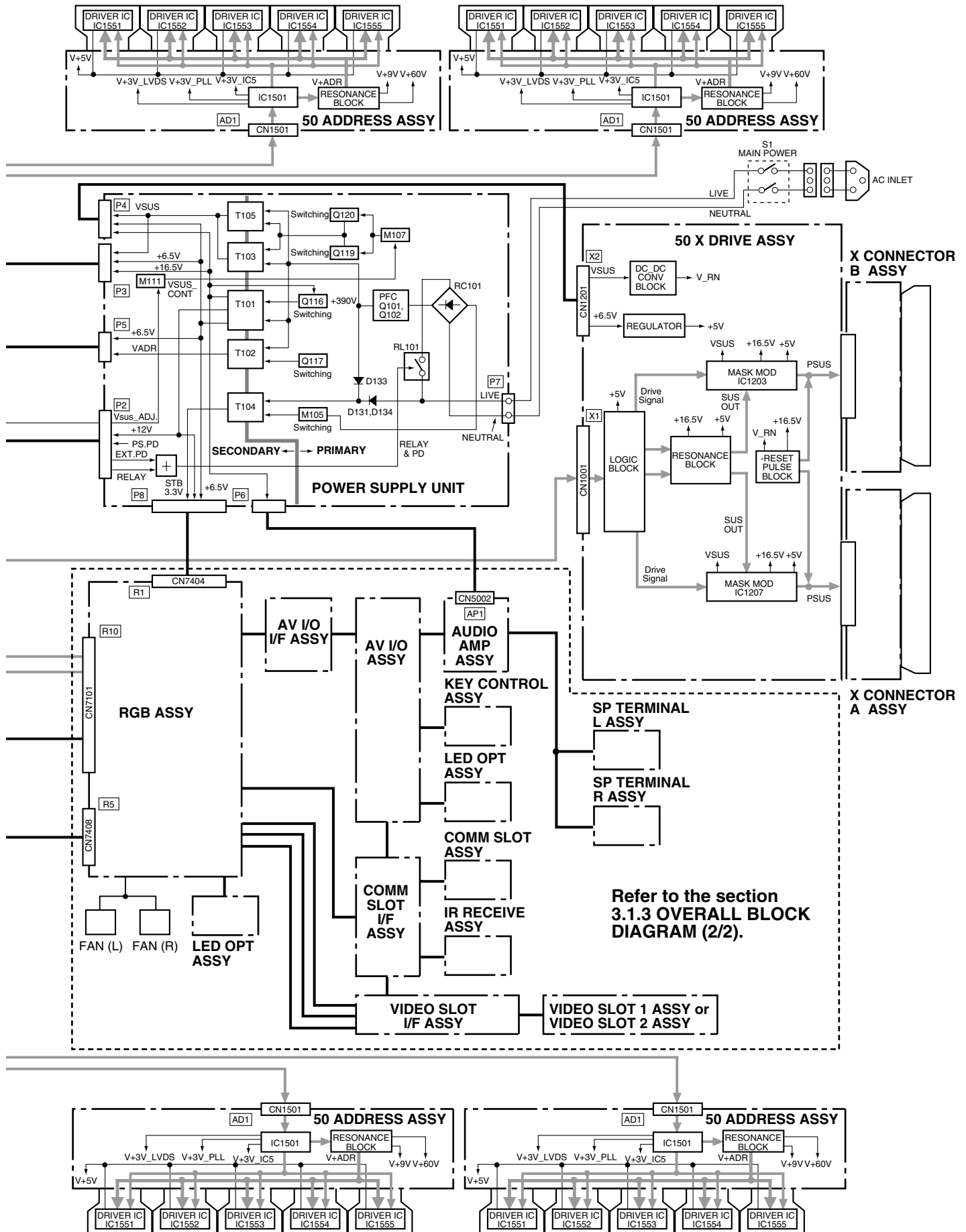
Block Diagrams

Operation LED Statuses

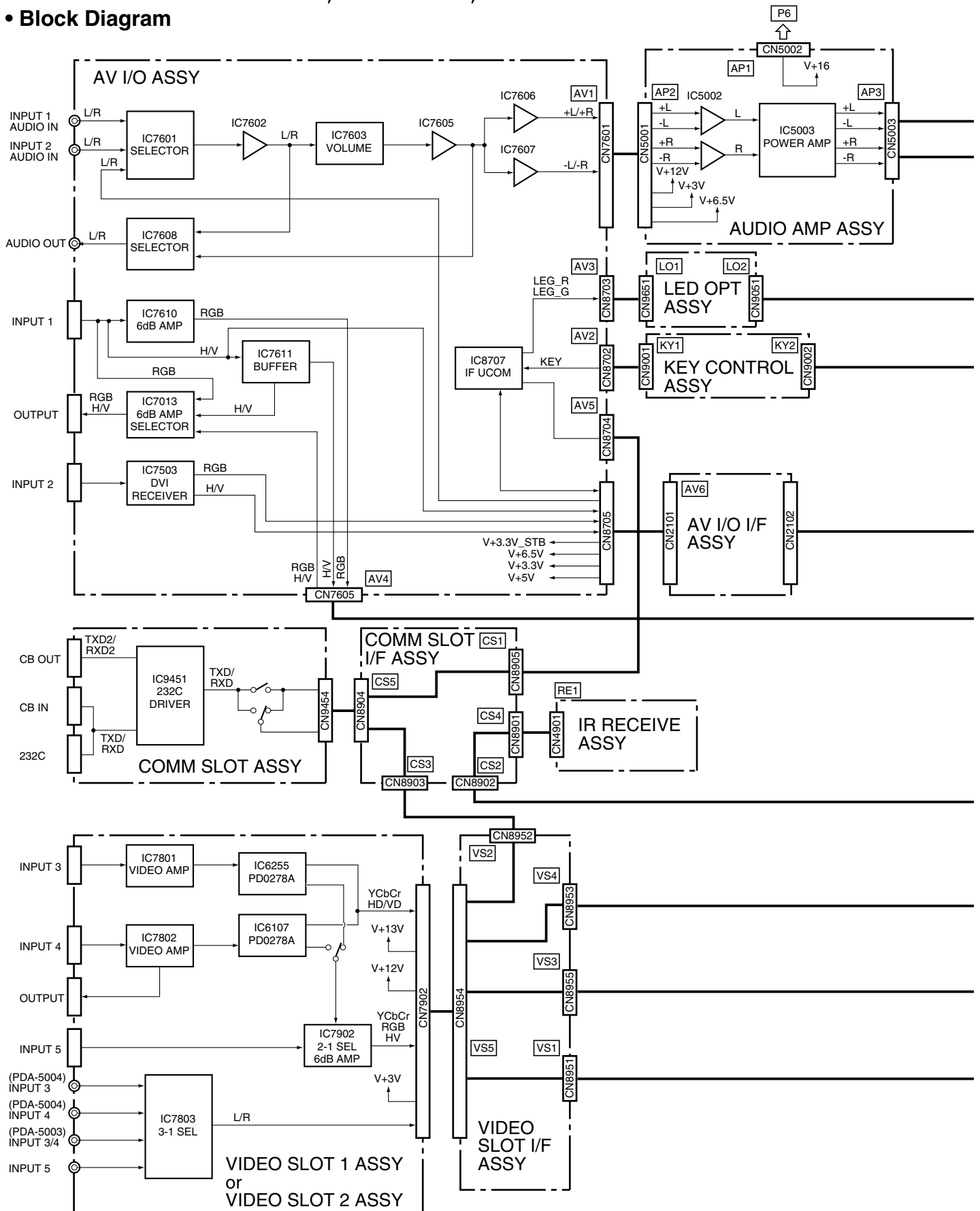
Power-Down & Shut-Down Diagnosis

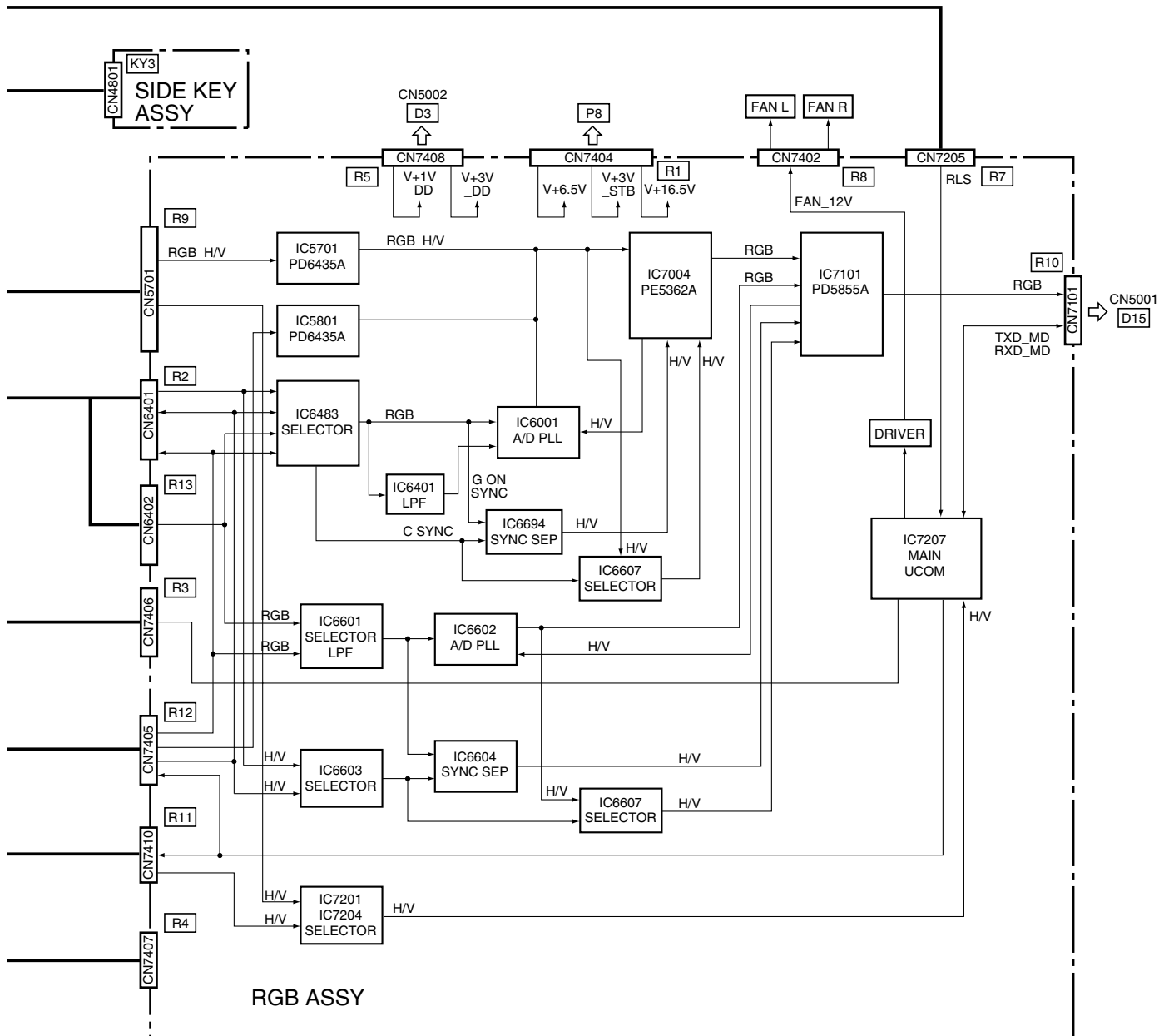
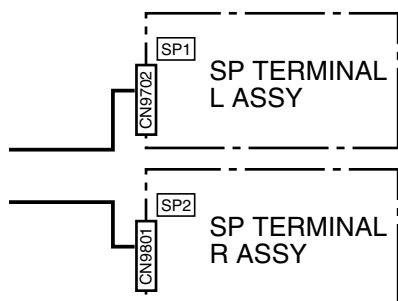
Block Diagram



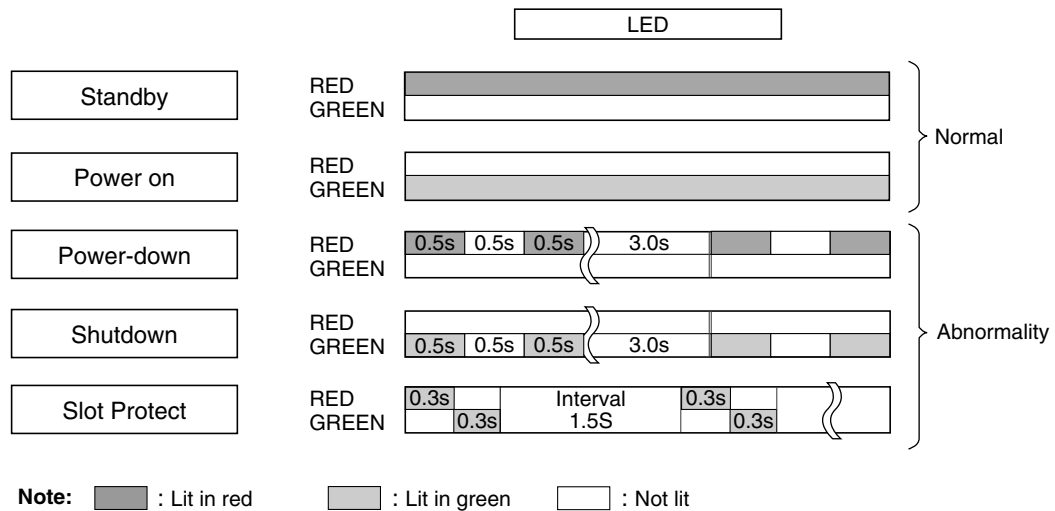


• Block Diagram





• Operation statuses indicated by LEDs



Red & Green LED's on steady: Trap mode Non-CMX models

How to enter the Factory Mode by Remote control.

- ① Set unit to Standby Mode
- ② Press and release the **DISPLAY** Button
- ③ Wait 7~10 seconds
- ④ **LEFT** Button (←)
- ⑤ **UP** Button (↑)
- ⑥ **LEFT** Button (←) - Within 5 seconds
- ⑦ **RIGHT** Button (→)
- ⑧ **POWER** Button

• Identification of locations having abnormality by the number of times the LEDs flash

■ On Shutdown and power-down

Shutdown

- Operation: When the microcomputer detects any abnormality, it forcibly shuts the unit off.
- LED indication: The LED flashes in green.

Note: The LED flashes regardless of the FRONT INDICATOR setting on the Integrator menu.

Power-down

- Operation: When the unit is in emergency status, a protection circuit is activated, and the power is shut off.
- LED indication: The LED flashes in red.

Category	LED		Content		Unit's Operation	Warning Message
	STB	ON				
SD		Once	Communication failure of the panel-drive IC		Shutdown 3 seconds after warning	Shutdown by circuit failure (01)
		Twice	Communication failure of the module IIC		Shutdown 3 seconds after warning	Shutdown by circuit failure (02)
		3 times	Power decrease of the digital DC-DC converter		Immediate shutdown	
		4 times	Panel having high temperature		Shutdown 30 seconds after warning	Shutdown by warning temperature rise (04)
		5 times	Audio failure		Shutdown 3 seconds after warning	Shutdown by warning speaker failure (05)
		6 times	Communication failure of the module microcomputer		Shutdown 3 seconds after warning	Shutdown by circuit failure (06)
		7 times	Main 3-wire serial communication in failure		Shutdown 3 seconds after warning	Shutdown by circuit failure (07)
		8 times	Communication failure of the main IIC		Shutdown 3 seconds after warning	Shutdown by circuit failure (08)
		9 times	Communication failure of the main microcomputer		Immediate shutdown	
		10 times	Fan in failure		Shutdown 3 seconds after warning	Shutdown by warning fan abnormality (10)
		11 times	Unit having higher temperature		Shutdown 30 seconds after warning	Shutdown by warning temperature rise (11)
		13 times	Main microcomputer ASIC power supply NG		Immediate shutdown	
		14 times	Communication failure of IF-EEPROM		Shutdown 3 seconds after warning	Shutdown by circuit failure (14)
		15 times	Other failure	RLS	Shutdown 30 seconds after warning	Shutdown by circuit failure (15)
				VCC-D1	Shutdown 3 seconds after warning	
			VCC-D2	after warning		
PD	Once					
	Twice		Power		Immediate power-down	
	3 times		SCAN		Immediate power-down	
	4 times		SCAN-5V		Immediate power-down	
	5 times		Y-DRIVE		Immediate power-down	
	6 times		Y-DCDC		Immediate power-down	
	7 times		Y-SUS		Immediate power-down	
	8 times		ADDRESS		Immediate power-down	
	9 times		X-DRIVE		Immediate power-down	
	10 times		X-DCDC		Immediate power-down	
	11 times		X-SUS		Immediate power-down	
	12 times		DIGITAL-DCDC		Immediate power-down	
	15 times		UNKNOWN (Not identified)*1 Drive processing IC (IC4)*2		Immediate power-down	

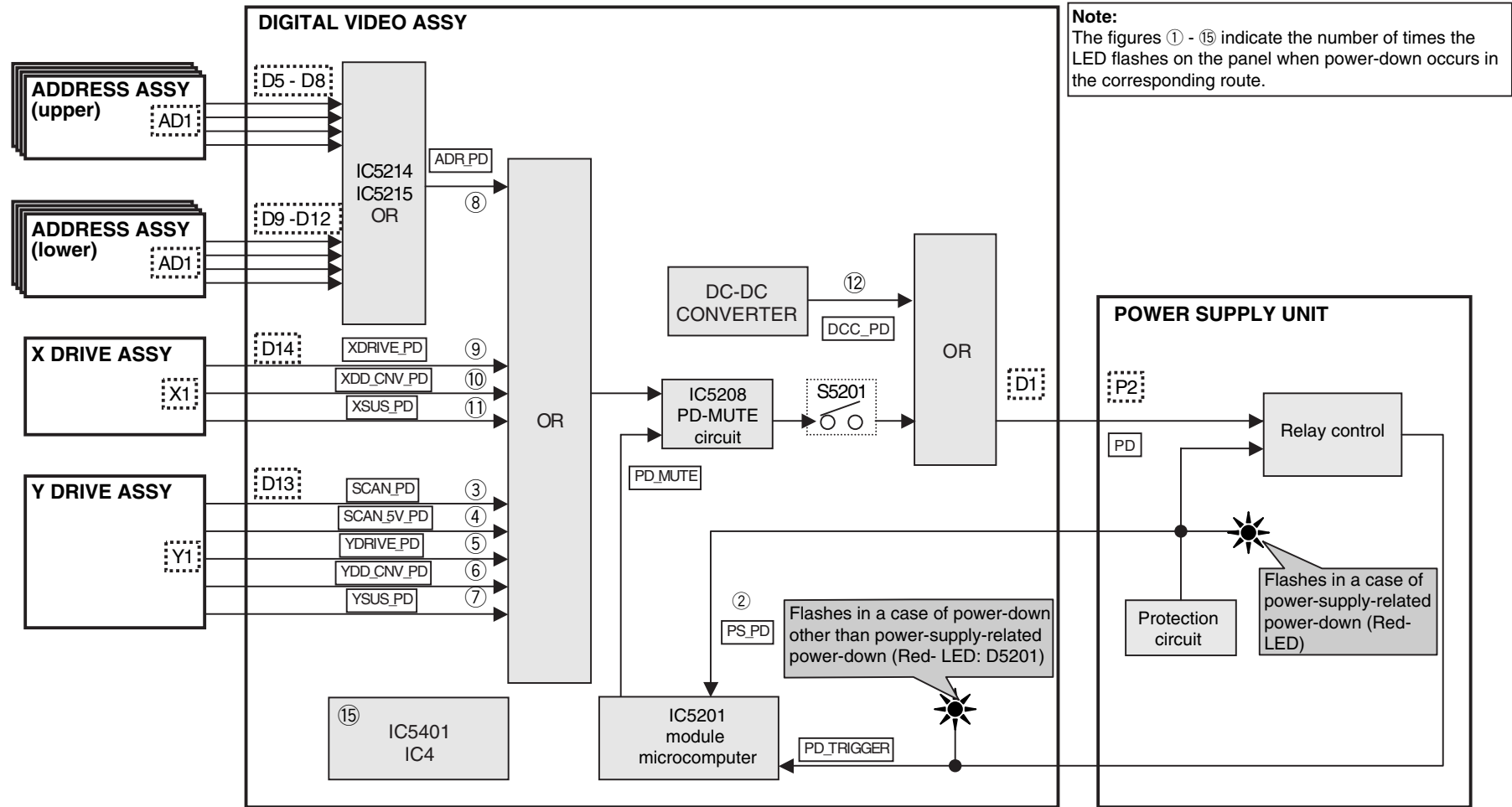
*1: If the unit cannot identify which protection circuit was activated, even if a power-down had been detected, the red LED may flash 15 times.

*2: If 15 times blink of a power-down cannot be specified, the drive processing IC exists.

See "4.PANEL PD" on page 98 and "GPD: Power-down information" on page 116.

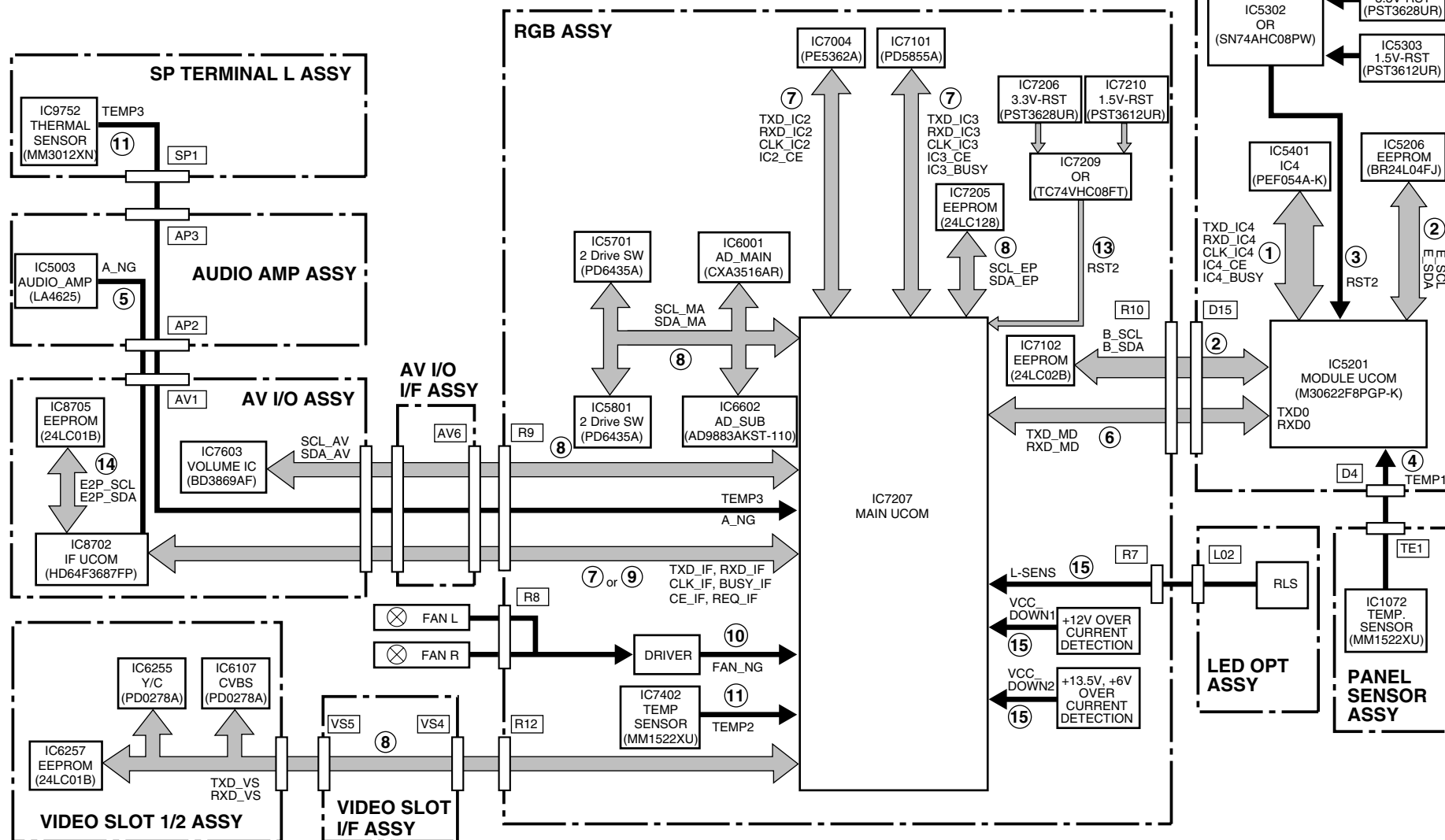
PDP434CMX, PDP504CMX, PDP505CMX

Power Down (Blinking in Red)



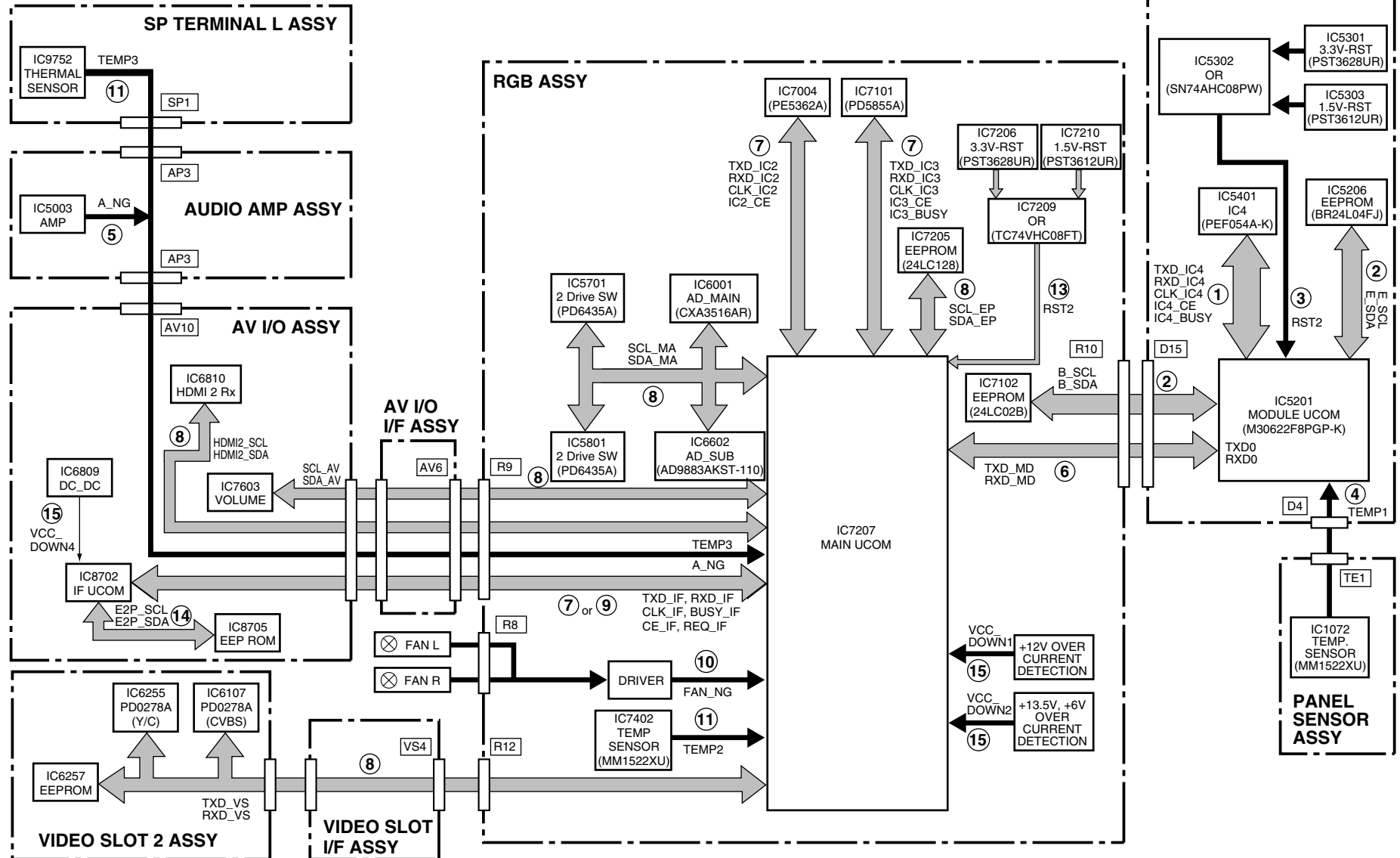
PDP434CMX, PDP504CMX, PDP505CMX

Shut Down (Blinking in Green)



PDP434CMX, PDP504CMX, PDP505CMX

Shut Down (Blinking in Green)



PDP-5004, PDP-5014, PDP-4304, PDP-4314, PRO-810 & PRO-1010

Mode Ls

PDP4350SX

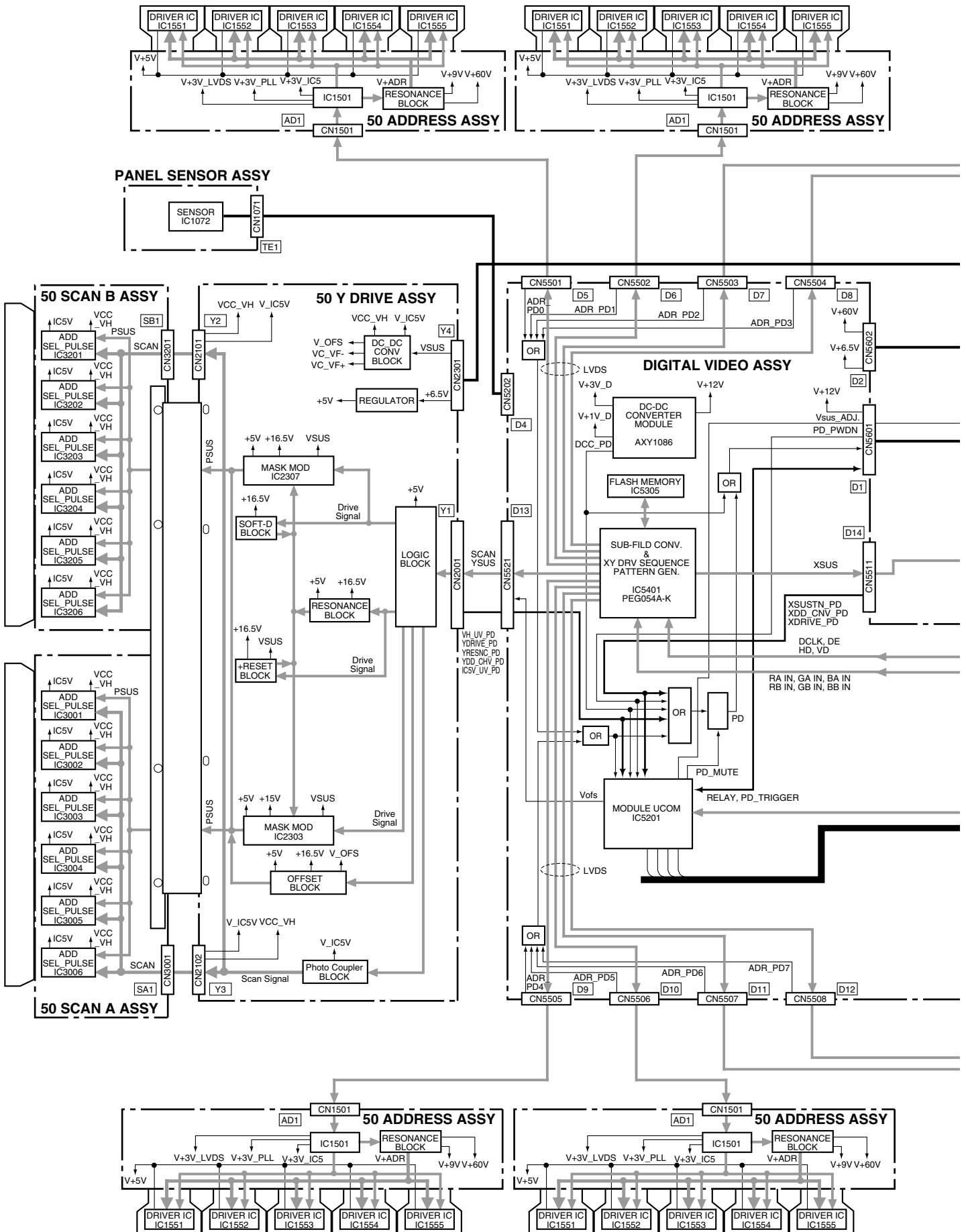
PDP5050SX

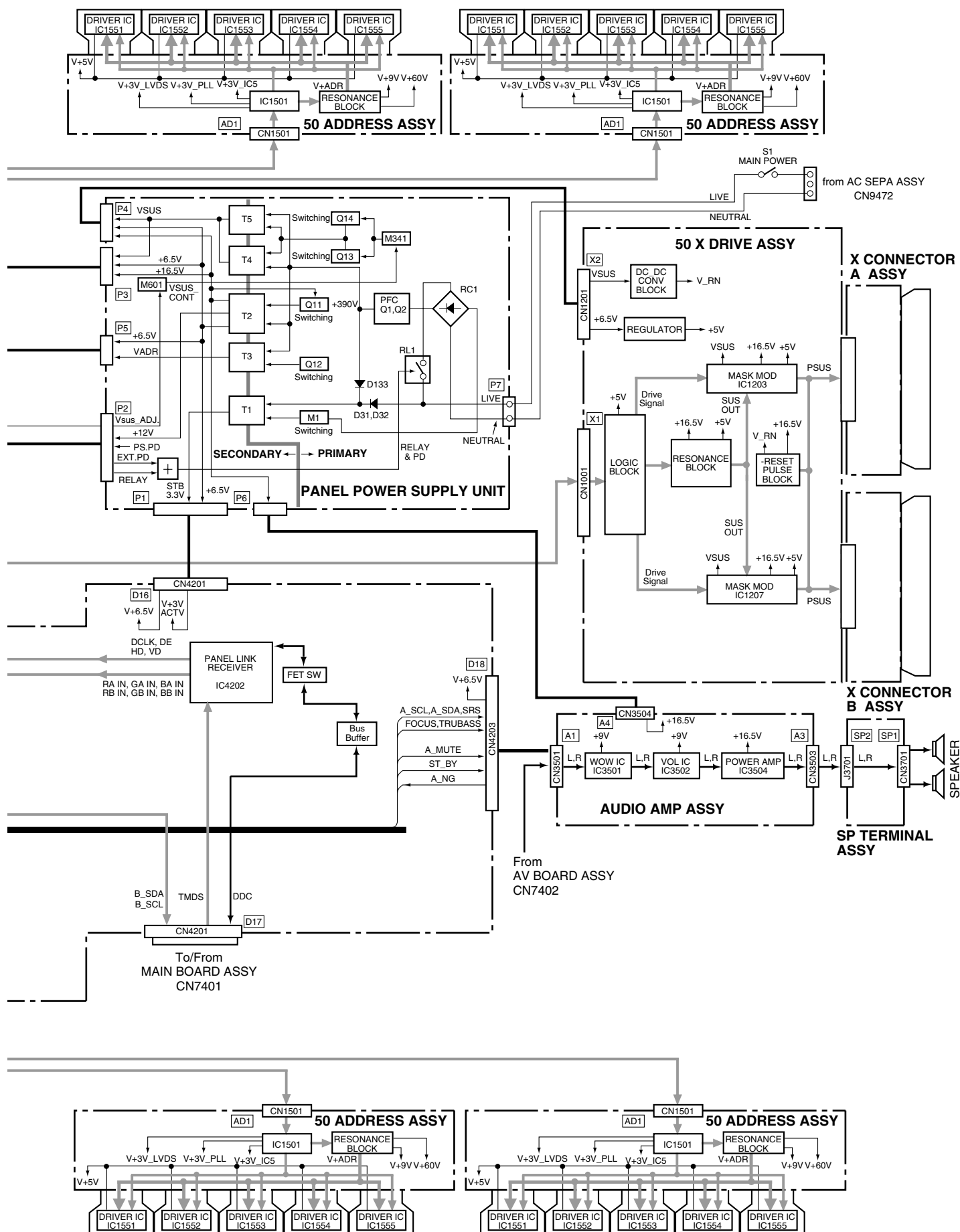
Block Diagrams

Operation LED Statuses

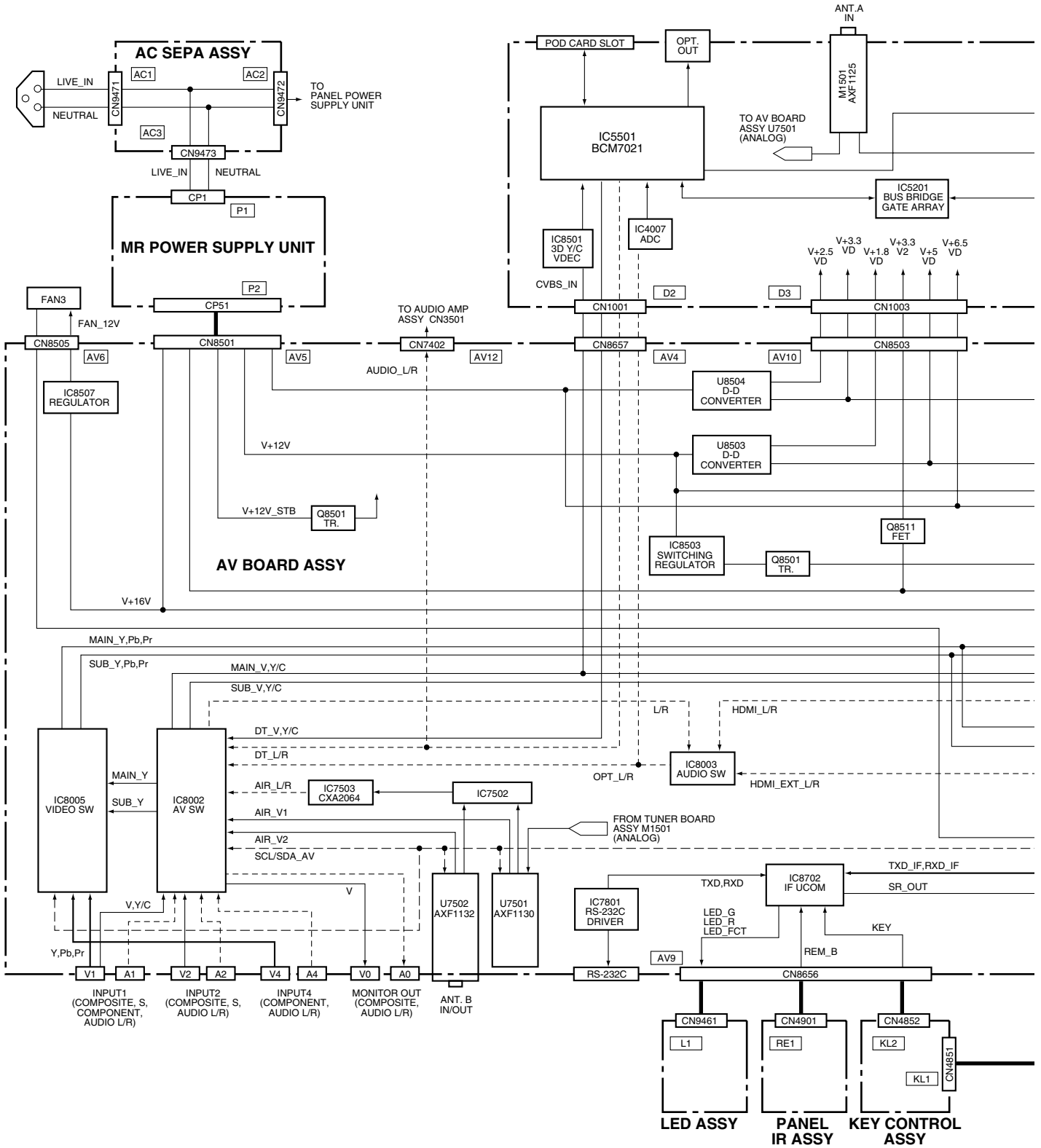
Shut-Down & Power-Down Diagnosis

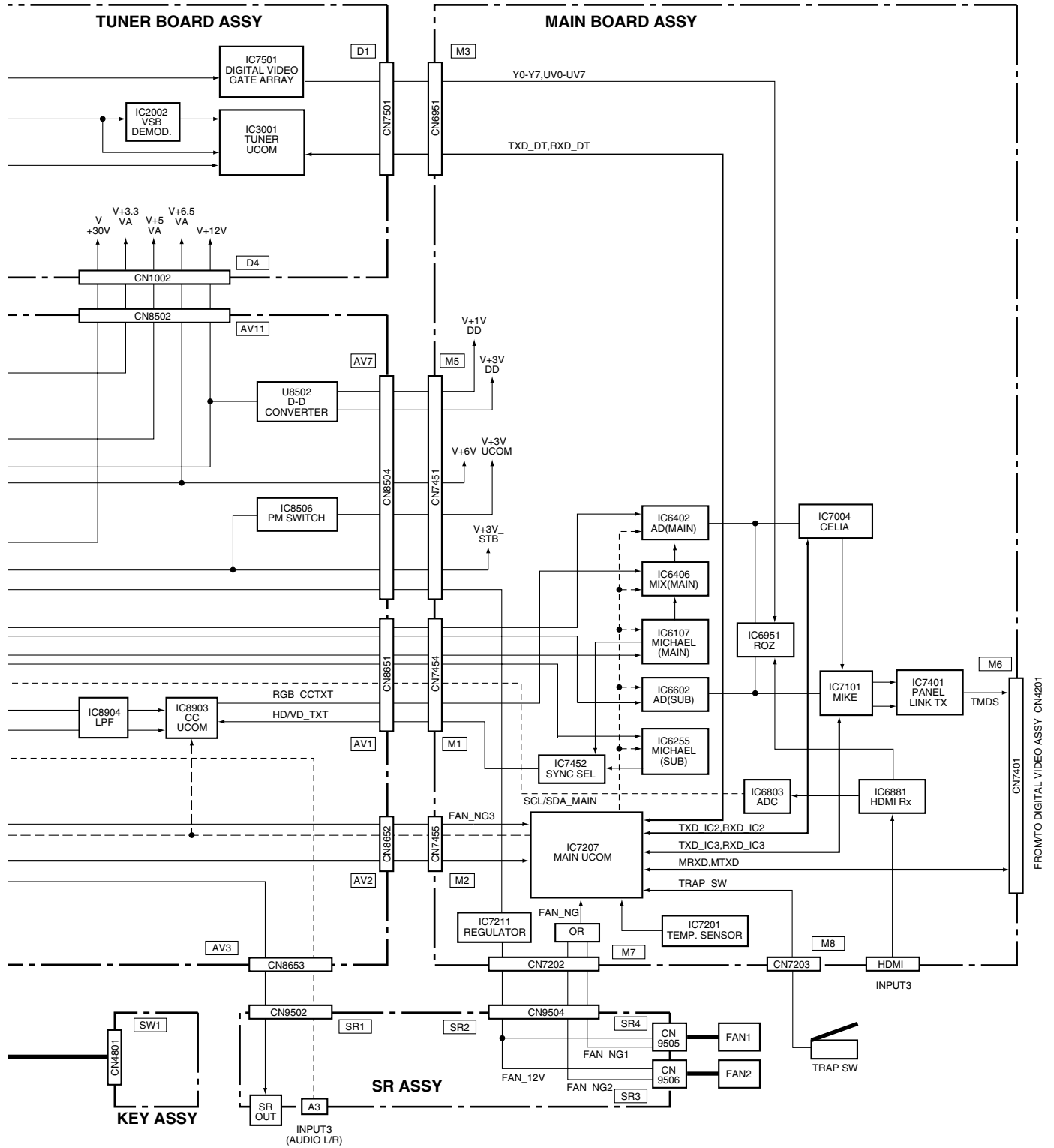
PDP4350SX & PDP5050SX Block Diagram





PDP4350SX & PDP5050SX





- **LED-lighting patterns**

[illegible]

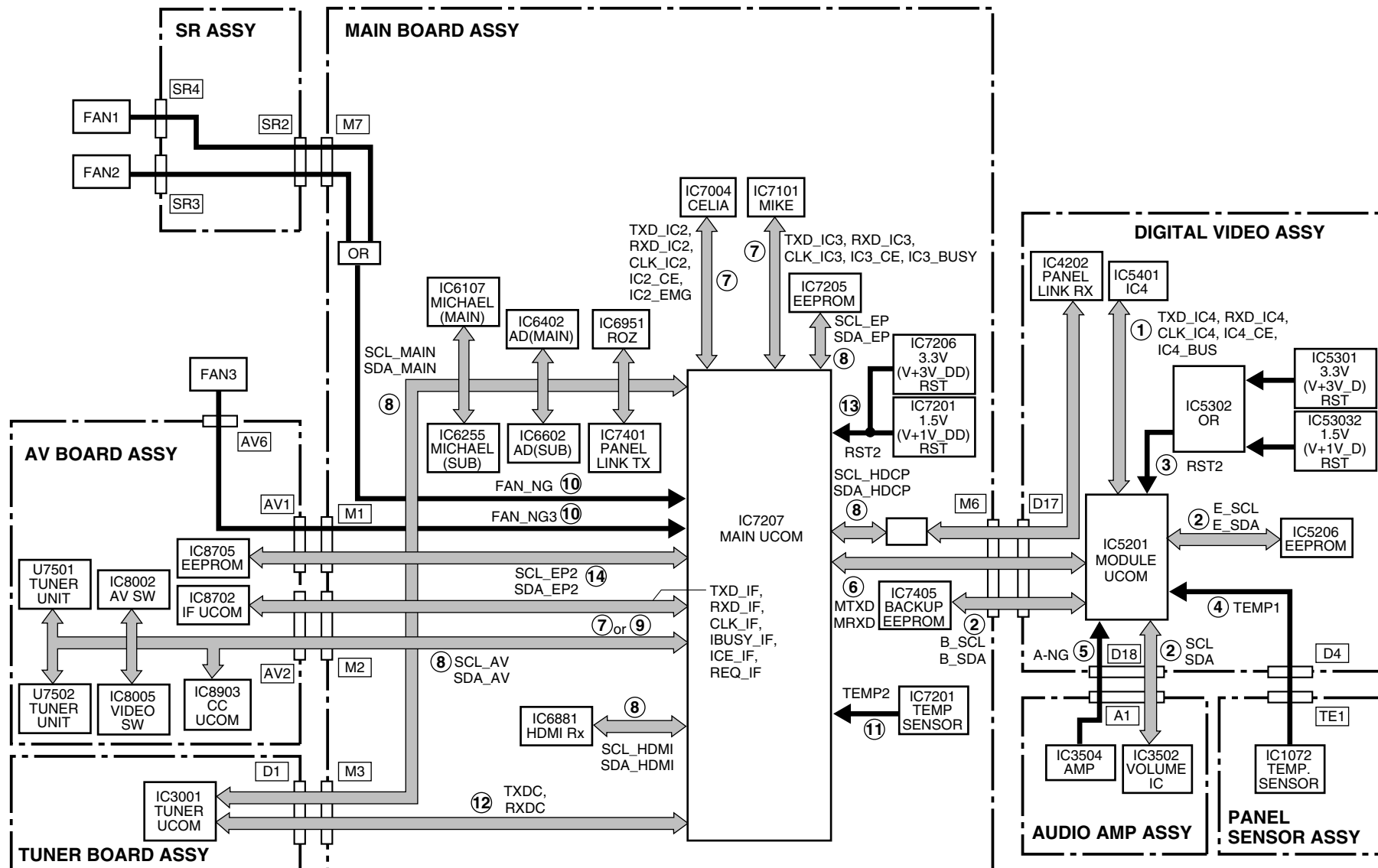
 : RED LED ON
 : GREEN LED ON
 : ORANGE LED ON
 : LED OFF

Note 1: In this state, all the secondary outputs of the Panel Power Supply Unit will be off, but the power from the secondary outputs of the MR Power Supply Unit will be output in the same way as in Standby mode.

Shut Down (BLinking in Green)

Note:

The figures ① - ⑭ indicate the number of times the Green-LED flashes when shutdown occurs in the corresponding route.



PDP4350SX & PDP5050SX

PDP4350SX & PDP5050SX

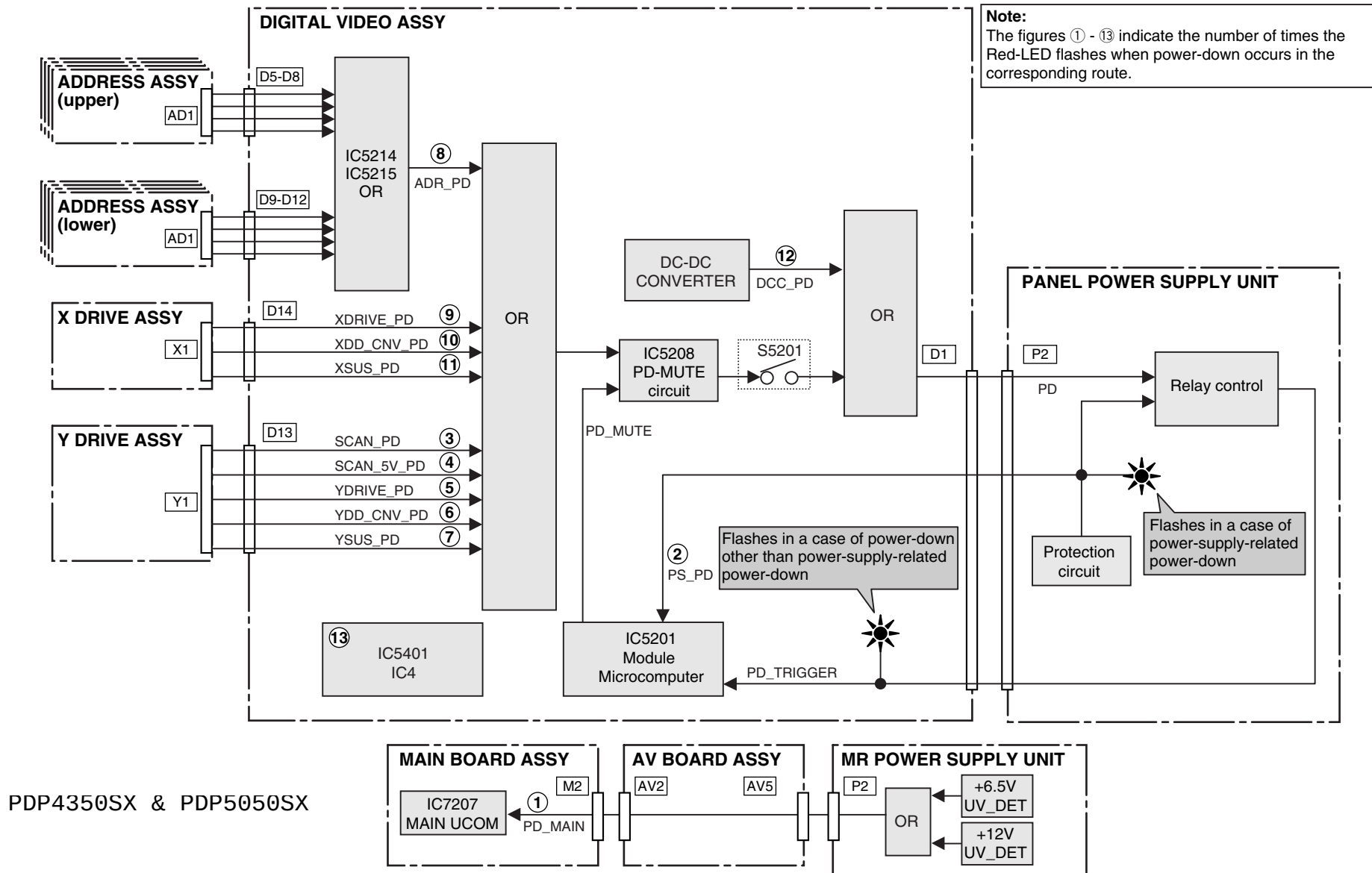
• Diagnosis of the shutdown

No. of times of LED flashing Category	Category	SD Circuit in operation	Defective Assy	Reason for shutdown	Point to be Checked	Possible Defective Part	Remarks
Green 1	SD1	Communication failure of the panel-drive IC	DIGITAL VIDEO Assy	Communication failure of IC4	IC4 BLOCK,	IC5401	
					PANEL FLASH BLOCK	IC5305	
				Writing failure of IC4			After turning the unit on again, check if the data on the version can be read with the GS1 command.
Green 2	SD2	Communication failure of the module IIC (Check the shutdown subcategory on the Factory menu.)	DIGITAL VIDEO Assy	Communication failure of the EEPROM	MODULE UCOM BLOCK	IC5206	
			MAIN BOARD Assy	Communication failure of the EEPROM	IF BLOCK	IC7405	
			AUDIO AMP Assy	Defective volume IC	AUDIO AMP Assy	IC3502	
			DIGITAL VIDEO Assy or AUDIO AMP Assy	Disconnection of cable	CN4203(D18) - CN3501(A1)		Check if the cable is disconnected or not securely connected.
Green 3	SD3	Power decrease of DIGITAL-DC-DC	DIGITAL VIDEO Assy	Defective DC-DC converter	DIGITAL DD CON BLOCK	U5602	Check if 3.3 V and 1.5V are activated.
				Defective RST IC	PANEL FLASH BLOCK	IC5301, IC5302, IC5303	
			PANEL POWER SUPPLY Assy	No startup of 12 V			
Green 4	SD4	Panel having higher temperature (TEMP1)		Panel having higher temperature	Surrounding temperature		Shutdown occurs when the sensor temperature becomes 74°C or more
			DIGITAL VIDEO Assy or PANEL SENSOR Assy	Disconnection of cable	CN5202(D4) - CN1071(TE1)		Check if the cable is disconnected or not securely connected.
Green 5	SD5	Audio failure		Speaker short-circuited	Speaker terminals		Check if the speaker cables are in contact with the chassis, etc.
			AUDIO AMP Assy	Defective AMP IC	AUDIO AMP Assy	IC3504	
			DIGITAL VIDEO Assy or AUDIO AMP Assy	Disconnection of cable	CN4203(D18) - CN3501(A1)		Check if the cable is disconnected or not securely connected.
Green 6	SD6	Communication failure of the module microcomputer	DIGITAL VIDEO Assy	Failure in Module Ucom or defective peripheral circuits	MODULE UCOM BLOCK	IC5201	
				Failure in writing in the Module Ucom			
			MAIN BOARD Assy or DIGITAL VIDEO Assy	Disconnection of cable	CN7401(M6) - CN4201(D17)		Check if the cable is disconnected or not securely connected.
				Failure in communication (MTXD, MRXD) between the IC5201(Module Ucom) and IC7207 (Main Ucom)			
Green 7	SD7	Serial communication failure of the 3-wire of the main microcomputer	MAIN BOARD Assy	Failure in CELIA or defective peripheral circuits	CELIA BLOCK	IC7004	
				Failure in MIKE or defective peripheral circuits	MIKE BLOCK	IC7101	
			AV BOARD Assy	Failure in IF Ucom or defective peripheral circuits	UIF UCOM BLOCK	IC8705	
			MAIN BOARD Assy or AV BOARD Assy	Failure in communication (TXD_IC2, RXD_IC2, CLK_IC2, IC2_CE, IC2_EMG) (TXD_IC3, RXD_IC3, CLK_IC3, IC3_CE, IC3_BUSY) between one of the above devices and IC7207 (Main Ucom)			

No. of times of LED flashing Category	Category	SD Circuit in operation	Defective Assy	Reason for shutdown	Point to be Checked	Possible Defective Part	Remarks
Green 8	SD8	IIC communication failure of the main microcomputer (Confirm the SD subcategory in the factory menu)	MAIN BOARD Assy	Failure in MICHAEL (MAIN) or defective peripheral circuits	MICHAEL BLOCK	IC6107	
				Failure in MICHAEL (SUB) or defective peripheral circuits	MICHAEL BLOCK	IC6255	
				Failure in AD (MAIN) or defective peripheral circuits	AD BLOCK	IC6402	
				Failure in AD (SUB) or defective peripheral circuits	AD BLOCK	IC6602	
				Failure in ROZ or defective peripheral circuits	ROZ BLOCK	IC6951	
				Failure in EEPROM or defective peripheral circuits	MAIN UCOM BLOCK	IC7205	
				Failure in HDMI Rx or defective peripheral circuits	HDMI RX BLOCK	IC6881	
				Failure in HDCP Tx or defective peripheral circuits	IF BLOCK	IC7401	
			AV BOARD Assy	Failure in TUNER UNIT or defective peripheral circuits	TUNER BLOCK	U7501,U7502	
				Failure in AV_SW or defective peripheral circuits	AV SW BLOCK	IC8002	
				Failure in VIDEO_SW or defective peripheral circuits	AV SW BLOCK	IC8005	
			TUNER BOARD Assy	Defective DTV tuner			
			MAIN BOARD Assy or AV BOARD Assy or TUNER BOARD Assy	Failure in communication (SCL_AV, SDA_AV, SCL_MAIN, SDA_MAIN, SCL_HDMI, SDA_HDMI, SCL_HDCP, SDA_HDCP, SCL_EP, SDA_EP) between one of the above devices and IC7207 (Main Ucom)			
Green 9	SD9	Communication failure in main microcomputer	MAIN BOARD Assy	Failure in writing in the Main Ucom	MAIN UCOM BLOCK	IC7207	
			MAIN BOARD Assy or AV BOARD Assy	Disconnection of cable	CN7455(M2) - CN8652(AV2)		Check if the cable is disconnected or not securely connected.
				Failure in communication (TXD_IF, RXD_IF, CLK_IF, BUSY_IF, CE_IF, REQ_IF) between the IC8702(IF Ucom) and IC7207 (Main Ucom)			
Green 10	SD10	Fan failure	FAN	Failure in the fan motor or fan stopped by attached dust			
			MAIN BOARD Assy or AV BOARD Assy	Disconnection of cable	CN7454(M1) - CN8651(AV1)		Check if the cable is disconnected or not securely connected.
			MAIN BOARD Assy or SR Assy		CN7454(M7) - CN8651(SR2)		
			AV BOARD Assy		FAN-CN8505(AV6)		
			SR Assy		FAN-CN9505(SR4) or FAN-CN9506(SR3)		
Green 11	SD11	Unit having higher temperature (TEMP2)		Unit having higher temperature	Surrounding temperature		
Green 12	SD12	DIGITAL TUNER	TUNER BOARD Assy	Defective DTV tuner			
			MAIN BOARD Assy or TUNER BOARD Assy	Disconnection of cable	CN7455(M2) - CN8652(AV2)		Check if the cable is disconnected or not securely connected.
				Failure in communication (TXDC, RXDC) between the DTV tuner and IC7207 (Main Ucom)			
Green 13	SD13	ASIC power supply (DC-DC)	AV BOARD Assy	Defective DC-DC converter	AV REG BLOCK	U8502	Check if 3.3 V and 1.5 V are activated.
			MAIN BOARD Assy	Defective RST IC	MAIN UCOM BLOCK	IC7206, IC7210	
			MR POWER SUPPLY Assy	No startup of 12 V			
Green 14	SD14	Communication failure	AV BOARD Assy	Failure in EEPROM or defective peripheral circuits	UIF UCOM BLOCK	IC8705	
			MAIN BOARD Assy or AV BOARD Assy	Disconnection of cable	CN7454(M1) - CN8651(AV1)		Check if the cable is disconnected or not securely connected.
				Failure in communication (SCL_EP2/SDA_EP2) between the IC8705(EEPROM) and IC7207 (Main Ucom)			

PDP4350SX & PDP5050SX

Power Down (Blinking in Red)



	PD Circuit in operation	Defective Assy	Reason for Power-down	Point to be Checked	Possible Defective Part	Remarks
1	MR POWER	MR POWER SUPPLY Unit				
2	POWER	PANEL POWER SUPPLY Unit				If the elapsed time from relay-on until the LED in the PANEL power supply unit lights is about 2-4 seconds, the defective assembly may be the X or Y DRIVE.
		43 (50) X DRIVE Assy	VSUS UVP	X SUS BLOCK	IC1203, IC1207 (mask module)	
		43 (50) Y DRIVE Assy	VSUS UVP	Y SUS BLOCK	IC2303, IC2307 (mask module)	
3	SCAN	43 (50) SCAN A, B Assy or Y 43 (50) DRIVE Assy	VH UVP	SCAN IC	SCAN IC	
			VH UVP	VH DC/DC	IC2401, IC2402, IC2410, L2401	
			VH OVP	VH DC/DC	IC2402, IC2410	
			Disconnection of cable detected	CN2001, CN2301		
4	SCN-5V	43 (50) SCAN A, B Assy or Y 43 (50) DRIVE Assy	Disconnection of cable detected	CN2101, CN2102, CN2301		
			IC5V UVP	SCAN IC, IC5V DC/DC Y SUS BLOCK	SCAN IC, Q2401, Q2402, IC2304,	
			IC5V OVP	IC5V DC/DC	IC2403, IC2411	
5	Y-DRIVE	43 (50) Y DRIVE Assy	+16.5V OCP	Y SUS BLOCK	IC2303, IC2307 (mask module), IC2301, IC2304, IC2305, R2332	
6	Y-DCDC	43 (50) Y DRIVE Assy	VOFS UVP	VOFS DC/DC	IC2404, IC2412, Q2404, Q2407, Q2312	
			VOFS OVP	VOFS DC/DC	IC2404, IC2412	
7	Y-SUS	43 (50) Y DRIVE Assy	Power-down caused by detection of middle-point voltage	Y RESONANCE BLOCK	Q2202, Q2203, Q2214, Q2205, Q2206, Q2208, Q2209, Q2212, IC2201, IC2202, D2201, D2206, D2220, D2211, D2225, D2230, Control signal series resistors	
8	ADRS	43 (50) ADDRESS Assy	Disconnection of cable detected	CN1501		
			Power-down caused by detection of a power surge	ADR RESONANCE BLOCK	R1631, Q1601, D1602	
9	X-DRIVE	43 (50) X DRIVE Assy	Disconnection of cable detected	CN1001, CN1201		
			+16.5V OCP	X SUS BLOCK	IC1203, IC1207 (mask module), IC1204, IC1206, R1230, IC1205	
			VRN OCP	X SUS BLOCK	Q1205, R1226, R1251	
10	X-DCDC	43 (50) X DRIVE Assy	VRN OVP	VRN DC/DC	IC1403, IC1404	
			VRN UVP	VRN DC/DC	IC1402, IC1403, IC1404	
				X SUS BLOCK	Q1205, R1226, R1251	
11	X-SUS	43 (50) X DRIVE Assy	Power-down caused by detection of middle-point voltage	X RESONANCE BLOCK	Q1102, Q1103, Q1114, Q1105, Q1108, Q1109, Q1111, Q1112, IC1101, IC1102, D1103, D1113, D1118, D1125, D1129, D1130, Control signal series resistors	
12	DIG-DCDC	DIGITAL VIDEO Assy	DCDC +3.3V, +1.5V OVP	DC DC CONVERTER BLOCK	U5602 (DC DC CONVERTER Module)	
13	IC4	DIGITAL VIDEO Assy	IC4 Drive STOP	IC4 BLOCK	IC5401	

• Power-down diagnosis (defective points)

OVP: Over Voltage Protection UVP: Under Voltage Protection OCP: Over Current Protection

G-5SX Models (PDP-4350SX & PDP-5050SX)

• Diagnosis of the shutdown

No. of times of LED flashing Category	Category	SD Circuit in operation	Defective Assy	Reason for shutdown	Point to be Checked	Possible Defective Part	Remarks
Green 1	SD1	Communication failure of the panel-drive IC	DIGITAL VIDEO Assy	Communication failure of IC4	IC4 BLOCK,	IC5401	
					PANEL FLASH BLOCK	IC5305	
				Writing failure of IC4			After turning the unit on again, check if the data on the version can be read with the GS1 command.
Green 2	SD2	Communication failure of the module IIC (Check the shutdown subcategory on the Factory menu.)	DIGITAL VIDEO Assy	Communication failure of the EEPROM	MODULE UCOM BLOCK	IC5206	
			MAIN BOARD Assy	Communication failure of the EEPROM	IF BLOCK	IC7405	
			AUDIO AMP Assy	Defective volume IC	AUDIO AMP Assy	IC3502	
			DIGITAL VIDEO Assy or AUDIO AMP Assy	Disconnection of cable	CN4203(D18) - CN3501(A1)		Check if the cable is disconnected or not securely connected.
Green 3	SD3	Power decrease of DIGITAL-DC-DC	DIGITAL VIDEO Assy	Defective DC-DC converter	DIGITAL DD CON BLOCK	U5602	Check if 3.3 V and 1.5V are activated.
				Defective RST IC	PANEL FLASH BLOCK	IC5301, IC5302, IC5303	
			PANEL POWER SUPPLY Assy	No startup of 12 V			
Green 4	SD4	Panel having higher temperature (TEMP1)		Panel having higher temperature	Surrounding temperature		Shutdown occurs when the sensor temperature becomes 74°C or more
			DIGITAL VIDEO Assy or PANEL SENSOR Assy	Disconnection of cable	CN5202(D4) - CN1071(TE1)		Check if the cable is disconnected or not securely connected.
Green 5	SD5	Audio failure		Speaker short-circuited	Speaker terminals		Check if the speaker cables are in contact with the chassis, etc.
			AUDIO AMP Assy	Defective AMP IC	AUDIO AMP Assy	IC3504	
			DIGITAL VIDEO Assy or AUDIO AMP Assy	Disconnection of cable	CN4203(D18) - CN3501(A1)		Check if the cable is disconnected or not securely connected.
Green 6	SD6	Communication failure of the module microcomputer	DIGITAL VIDEO Assy	Failure in Module Ucom or defective peripheral circuits	MODULE UCOM BLOCK	IC5201	
				Failure in writing in the Module Ucom			
			MAIN BOARD Assy or DIGITAL VIDEO Assy	Disconnection of cable	CN7401(M6) - CN4201(D17)		Check if the cable is disconnected or not securely connected.
				Failure in communication (MTXD, MRXD) between the IC5201(Module Ucom) and IC7207 (Main Ucom)			
Green 7	SD7	Serial communication failure of the 3-wire of the main microcomputer	MAIN BOARD Assy	Failure in CELIA or defective peripheral circuits	CELIA BLOCK	IC7004	
				Failure in MIKE or defective peripheral circuits	MIKE BLOCK	IC7101	
			AV BOARD Assy	Failure in IF Ucom or defective peripheral circuits	UIF UCOM BLOCK	IC8705	
			MAIN BOARD Assy or AV BOARD Assy	Failure in communication (TXD_IC2, RXD_IC2, CLK_IC2, IC2_CE, IC2_EMG) (TXD_IC3, RXD_IC3, CLK_IC3, IC3_CE, IC3_BUSY) between one of the above devices and IC7207 (Main Ucom)			

G-5SX Models (PDP-4350SX & PDP-5050SX)

No. of times of LED flashing Category	Category	SD Circuit in operation	Defective Assy	Reason for shutdown	Point to be Checked	Possible Defective Part	Remarks
Green 8	SD8	IIC communication failure of the main microcomputer (Confirm the SD subcategory in the factory menu)	MAIN BOARD Assy	Failure in MICHAEL (MAIN) or defective peripheral circuits	MICHAEL BLOCK	IC6107	
				Failure in MICHAEL (SUB) or defective peripheral circuits	MICHAEL BLOCK	IC6255	
				Failure in AD (MAIN) or defective peripheral circuits	AD BLOCK	IC6402	
				Failure in AD (SUB) or defective peripheral circuits	AD BLOCK	IC6602	
				Failure in ROZ or defective peripheral circuits	ROZ BLOCK	IC6951	
				Failure in EEPROM or defective peripheral circuits	MAIN UCOM BLOCK	IC7205	
				Failure in HDMI Rx or defective peripheral circuits	HDMI RX BLOCK	IC6881	
				Failure in HDCP Tx or defective peripheral circuits	IF BLOCK	IC7401	
			AV BOARD Assy	Failure in TUNER UNIT or defective peripheral circuits	TUNER BLOCK	U7501,U7502	
				Failure in AV_SW or defective peripheral circuits	AV SW BLOCK	IC8002	
				Failure in VIDEO_SW or defective peripheral circuits	AV SW BLOCK	IC8005	
			TUNER BOARD Assy	Defective DTV tuner			
			MAIN BOARD Assy or AV BOARD Assy or TUNER BOARD Assy	Failure in communication (SCL_AV, SDA_AV, SCL_MAIN, SDA_MAIN, SCL_HDMI, SDA_HDMI, SCL_HDCP, SDA_HDCP, SCL_EP, SDA_EP) between one of the above devices and IC7207 (Main Ucom)			
Green 9	SD9	Communication failure in main microcomputer	MAIN BOARD Assy	Failure in writing in the Main Ucom	MAIN UCOM BLOCK	IC7207	
			MAIN BOARD Assy or AV BOARD Assy	Disconnection of cable	CN7455(M2) - CN8652(AV2)		Check if the cable is disconnected or not securely connected.
				Failure in communication (TXD_IF, RXD_IF, CLK_IF, BUSY_IF, CE_IF, REQ_IF) between the IC8702(IF Ucom) and IC7207 (Main Ucom)			
Green 10	SD10	Fan failure	FAN	Failure in the fan motor or fan stopped by attached dust			
			MAIN BOARD Assy or AV BOARD Assy	Disconnection of cable	CN7454(M1) - CN8651(AV1)		Check if the cable is disconnected or not securely connected.
			MAIN BOARD Assy or SR Assy		CN7454(M7) - CN8651(SR2)		
			AV BOARD Assy		FAN-CN8505(AV6)		
			SR Assy		FAN-CN9505(SR4) or FAN-CN9506(SR3)		
Green 11	SD11	Unit having higher temperature (TEMP2)		Unit having higher temperature	Surrounding temperature		
Green 12	SD12	DIGITAL TUNER	TUNER BOARD Assy	Defective DTV tuner			
			MAIN BOARD Assy or TUNER BOARD Assy	Disconnection of cable	CN7455(M2) - CN8652(AV2)		Check if the cable is disconnected or not securely connected.
				Failure in communication (TXDC, RXDC) between the DTV tuner and IC7207 (Main Ucom)			
Green 13	SD13	ASIC power supply (DC-DC)	AV BOARD Assy	Defective DC-DC converter	AV REG BLOCK	U8502	Check if 3.3 V and 1.5 V are activated.
			MAIN BOARD Assy	Defective RST IC	MAIN UCOM BLOCK	IC7206, IC7210	
			MR POWER SUPPLY Assy	No startup of 12 V			
Green 14	SD14	Communication failure	AV BOARD Assy	Failure in EEPROM or defective peripheral circuits	UIF UCOM BLOCK	IC8705	
			MAIN BOARD Assy or AV BOARD Assy	Disconnection of cable	CN7454(M1) - CN8651(AV1)		Check if the cable is disconnected or not securely connected.
				Failure in communication (SCL_EP2/SDA_EP2) between the IC8705(EEPROM) and IC7207 (Main Ucom)			

Mode Ls

PDP436PU

PDP506PU

PR0436PU

PR0506PU

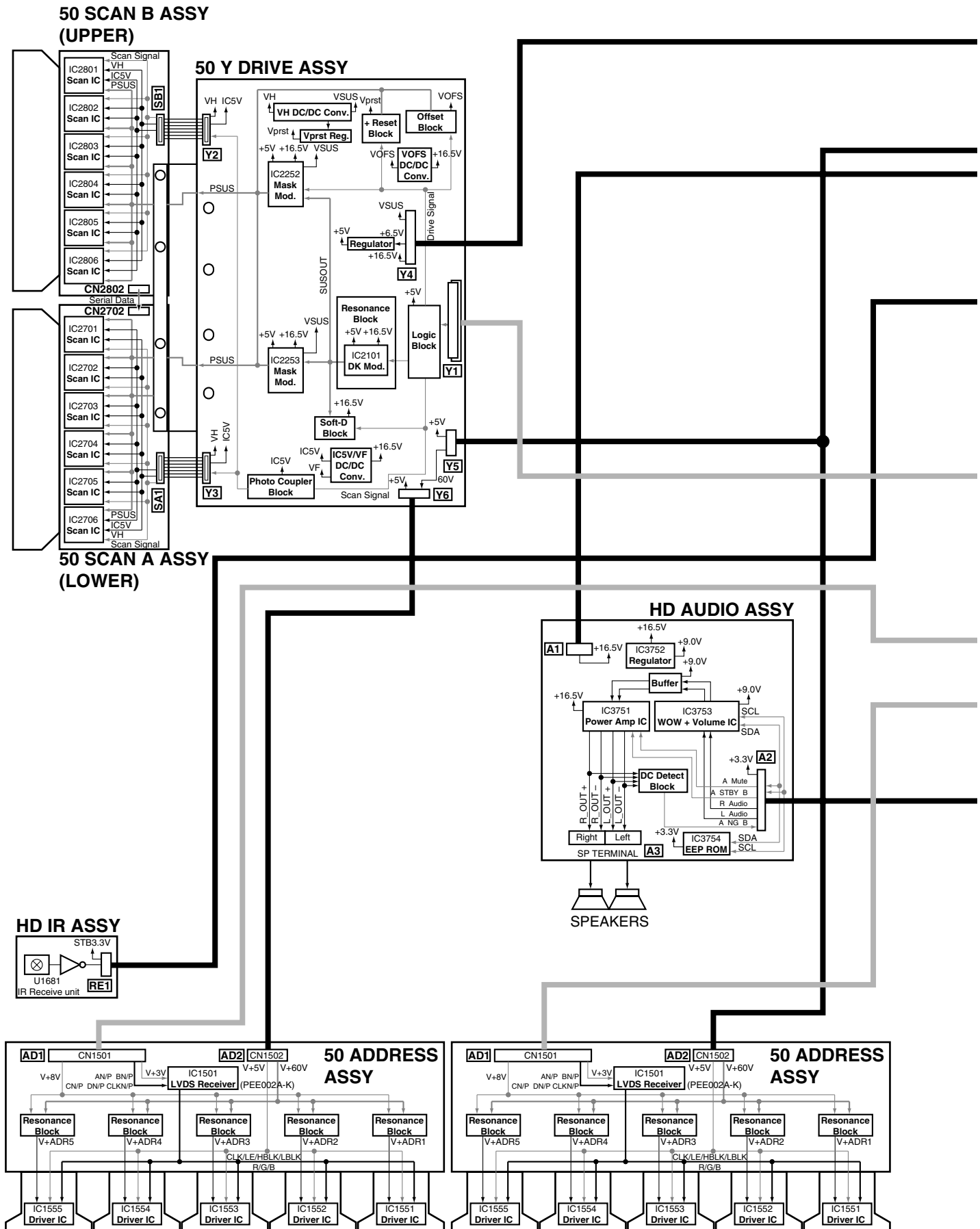
Block Diagrams

Operation LED Statuses

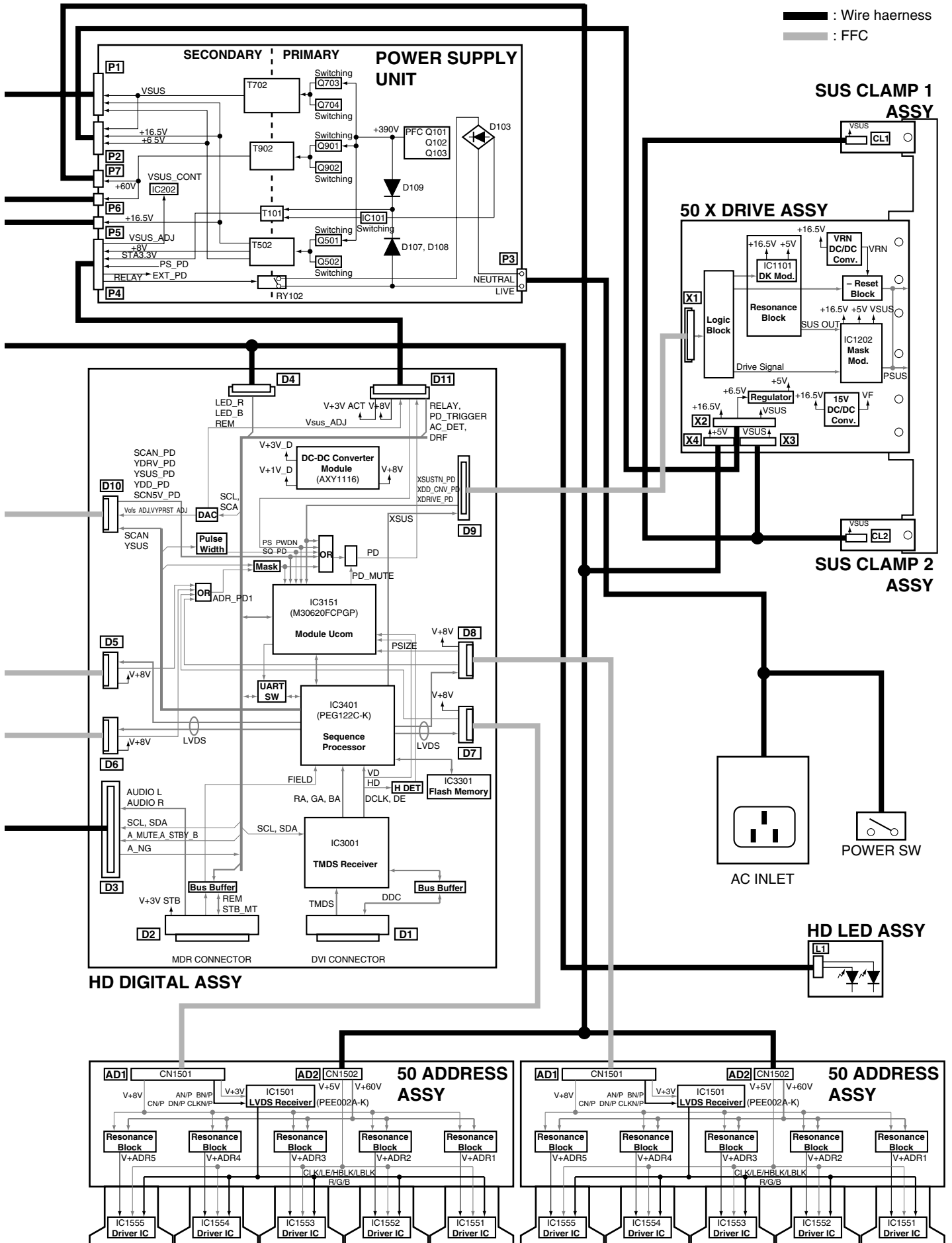
Shut-Down & Power-Down Diagnosis

System Reset

PDP436PU, PDP506PU, PR0436PU, PR0506PU
Block Diagram



: Wire harness
 : FFC



• Operation statuses indicated by LEDs

Status	LED Pattern			
Standby	1	Lit in Red	Blue Red	
Power ON	2	Lit in Blue	Blue Red	
AC Power OFF of one side	3	Red flashes (1000ms)	Blue Red	
System cable disconnection	4	Red and blue flash (1000ms)	Blue Red	
Power-down	5	Red flashes (500+2500ms)	Blue Red	
Shutdown	6	Blue flashes (500+2500ms)	Blue Red	
No backup copy	7	Lit in Red and blue flashes (200ms)	Blue Red	

: Lit in Red LED

: Lit in Blue LED

• PD (power-down) count

1	Not used
2	POWER SUPPLY Unit
3	SCAN Assy
4	5V power supply for SCAN
5	Y-DRIVE (Not used)
6	DCDC for Y drive
7	Y-SUS
8	ADDRESS Assy
9	X-DRIVE
10	DCDC for X drive
11	X-SUS
12	Not used
13	Sequence drive stop
14	Not used
15	UNKNOWN

• SD (shut down) count

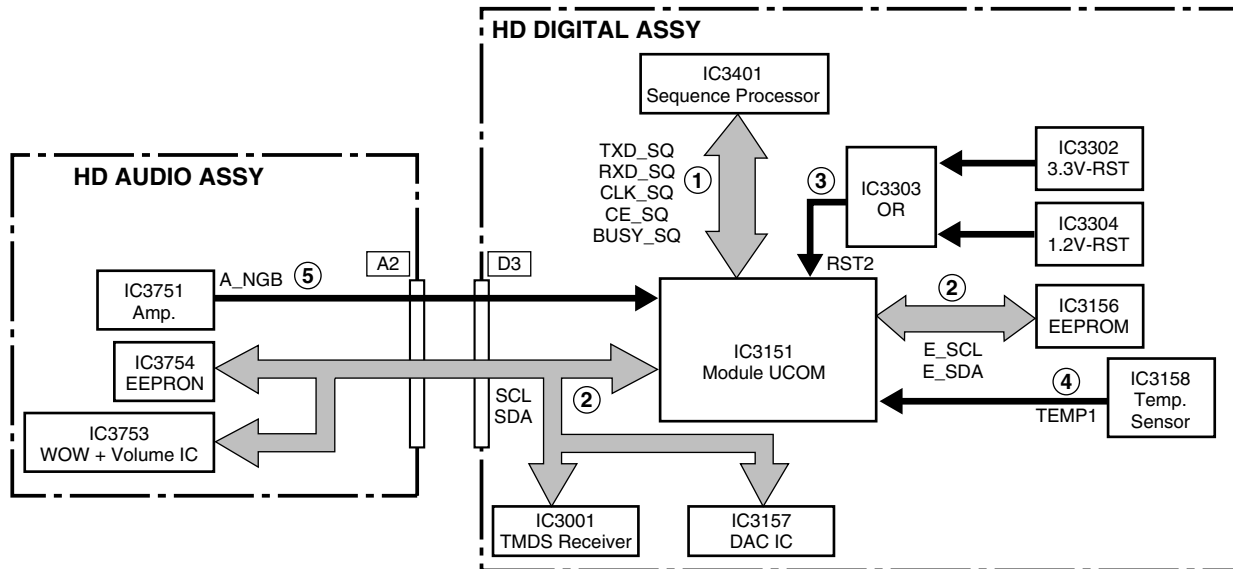
1	SEQUENCE PROCESSOR (SQ_IC)
2	MDU-IIC
3	RST2 abnormality
4	Panel high temperature
5	Speaker short-circuit *

* When a jumper (J105) between the HD AUDIO Assy and the POWER SUPPLY Unit is disconnected, the SD LED flashes five times in this manner.

Note:

- When a shutdown occurs, a warning will be issued by the Media Receiver and displayed, then the power will be shut off.
- When a shutdown or power-down occurs on the Panel side, the Media Receiver will enter Standby mode (the red LED will light).

Shut Down (Blinking in Blue)



Number of flashes	SD Circuit in Operation	Defective Assy	Reason for Shutdown	Point to be Checked	Possible Defective Part	Remarks
1 time	Communication failure of the driving processor	HD DIGITAL	Communication failure of IC3401	SQ ASIC BLOCK, PANEL FLASH BLOCK	IC3401, IC3301	
			Writing failure of IC3401			Check if version data can be read, using the "GS1" command, after the power is turned on again.
2 times	Communication failure of the IIC line (Check the SD subcategory on the Factory Menu.)	HD DIGITAL	Communication failure of the EEPROM (for retaining 4-Kbyte of data)	MODULE UCOM BLOCK	IC3156, IC3157	
		HD AUDIO	Communication failure of the EEPROM (2-kbyte : for backup)	TMDs BLOCK	IC3001	
			Disconnection of connectors	AUDIO AMP BLOCK	IC3754	
			Defective volume IC	A2 - D3		Check if the connectors are disconnected or are not connected securely.
			Defective volume IC	HD AUDIO Assy	IC3753	
3 times	Power failure of the driving processor (RST2)	HD DIGITAL	Defective DC-DC converter	DIGITAL DD CON BLOCK	U3601	Check if 3.3-V and 1.2-V power supplies are activated.
			Defective RST IC	PANEL FLASH BLOCK	IC3302 - IC3304	
			Defective IC3401	SQ ASIC BLOCK	IC3401	
		POWER SUPPLY	The 8-V power supply is not activated.			Check if the 8-V power is supplied at Pin 1 of the D11 connector.
4 times	Abnormally high temperature of the panel		Abnormally high temperature of the panel	Ambient temperature		The Panel will be shut down if the sensor detects temperature of 75°C or higher (for the PDP-436P/-506P).
5 times	Audio failure		Speakers' grounding fault	Speaker terminals		Check if the speaker cables are in contact with the chassis, etc.
		HD AUDIO	Defective AMP IC	HD AUDIO Assy	IC3751	
		HD AUDIO	Disconnection of connectors	A1 - P5		Check if the connectors are disconnected or are not connected securely.

Power Down (Blinking in Red)

Number of Blinks	PD Circuit in Operation	Defective PCB Assy	Reason for PD (Power-down)	Point to be Checked	Possible Defective Part	Remarks
2	POWER	POWER SUPPLY				
3	SCAN	50 (43) SCAN A, B	VH UVP	SCAN IC	SCAN IC	VH-GNDH short-circuit
		50 (43) Y DRIVE		Y SUS BLOCK	IC2252, IC2253	VSUS-SUSOUT, SUSOUT-SUSGND short-circuit
				VH DC/DC	IC2502, L2501	
			Disconnection of cable detected	CN2001, CN2350		
		50 (43) X DRIVE	VH UVP	IC1202	IC1202	VSUS-SUSOUT, SUSOUT-SUSGND short-circuit
4	SCN-5V	50 (43) SCAN A, B	Disconnection of cable detected	CN2401, CN2402		
			IC5V UVP	SCAN IC	SCAN IC	
		50 (43) Y DRIVE		IC5V DC/DC	Q2605, R2647	
				Y SUS BLOCK	R2352	
6	Y-DCDC	50 (43) Y DRIVE	VOFS UVP	VOFS DC/DC	Q2606, R2619, R2620	
				Y SUS BLOCK	IC2252, IC2253, Q2280, Q2281	MSKS-SUSOUT short-circuit
			Vprst UVP	Vprst Regulator	Q2531, Q2532, IC2535	
7	Y-SUS	50 (43) Y DRIVE	Power-down caused by detection of middle-point voltage	Y RESONANCE BLOCK	IC2101	
				Y SUS BLOCK	Q2221	
8	ADRS	50 (43) ADDRESS	Address power-down	ADDRESS RESONANCE BLOCK	D1634	V+ADR-GND_ADR short-circuit
			Disconnection of cable detected	CN1501, CN3501-CN3504		
9	XDRIVE	50 (43) X DRIVE	Disconnection of cable detected	CN1001		
10	X-DCDC	50 (43) X DRIVE	Disconnection of cable detected	CN1201		
			VRN UVP	VRN DC/DC	Q1323, R1332, R1333	
				X SUS BLOCK	R1204, Q1272	
11	X-SUS	50 (43) X DRIVE	Power-down caused by detection of middle-point voltage	X RESONANCE BLOCK	IC1101	

• Power-down diagnosis (defective points)

OVP : OVER VOLTAGE PROTECT
UVP : UNDER VOLTAGE PROTECT

PDP436PU, PDP506PU, PR0436PU, PR0506PU

■ LED-lighting patterns

Status of the Unit		LED-lighting Pattern	
Standby, power management	Lit in red	B	
		R	
Power on	Lit in blue	B	
		R	
PDP's power not on	Flashing in red (at 1-sec intervals)	B	
		R	
System cable disconnected *	Flashing alternately in red and blue (at 1-sec intervals)	B	
		R	
Waiting for start of rewriting by the microcomputer		B	
		R	
Waiting for finish of rewriting by the microcomputer		B	
		R	
Shutdown (circuit protection)	Flashing in blue n times (initially at 0.5-sec intervals then 2.5-sec intervals)	B	
		R	
Power-down (circuit protection)	Flashing in red for n times (initially at 0.5-sec intervals then 2.5-sec intervals)	B	
		R	
TRAP switch operation		B	
		R	

* In this case, the red and blue areas on the screen of the panel flash alternately.

PDP436PU, PDP506PU, PR0436PU, PR0506PU

■ Defective points assumed from the number of times of LED flashing

No. of times of LED flashing				Category *1	Site detected as defective	Possible defective points (representative examples)	OSD when detected (warning message)
LEDs on the panel		LEDs on the MR					
Red	Blue	Red	Blue				
	Blue 1	Red		SD	Panel drive IC	*2	None
	Blue 2	Red			Module section IIC	*2	None
	Blue 3	Red			Power decrease of DIGITAL-DC-DC	*2	None
	Blue 4	Red			Panel having abnormally high temperature	*2	Power off. Internal temperature is too high. Check temperature around PDP. [SD04] *6
	Blue 5	Red			Short-circuiting of the speakers	*2	Internal protection circuit turns power off. Is there a short in speaker cable? (SD05)
Red			Blue 6		Module microcomputer	Disconnection of the system cable Defective module microcomputer or its peripheral circuits of the panel (Refer to the service manual of the PDP-436PU or PDP-506PU.) Defective main microcomputer (IC5206) Failure in communication (TXD_MD, RXD_MD, REQ_MD) between the panel's module microcomputer and IC5206 (main microcomputer)	None
Red			Blue 7		3-wire serial connection of the main section	Defective IC5002 or its peripheral circuits Failure in communication (TXD_IF, RXD_IF, CLK_IF, CE_IF, REQ_IF, BUSY_IF) between IC5002 and IC5206 (main microcomputer) Defective IC7001 or its peripheral circuits Failure in communication (TXD_IC3, RXD_IC3, CLK_IC3, IC3_CE, REQ_IC3, BUSY_IC3) between IC7001 and IC5206 (main microcomputer)	None
Red			Blue 8		IIC of the main section	Defective U4401 (FE1) or its peripheral circuits Defective IC4401 (MPX) or its peripheral circuits *3 Defective IC4702 (RGB_SW) or its peripheral circuits Defective ICxxxx (GCR) or its peripheral circuits *4 Defective IC6001 (S-VDEC) or its peripheral circuits *5 Defective IC6404 (HDMI) or its peripheral circuits Defective ICxxxx (PLK-R) or its peripheral circuits Defective IC5405 (TTX-COM, TTX-BSY) or its peripheral circuits *3 Defective IC5202 (MA-EEP) or its peripheral circuits Failure in communication (SCL_AV, SDA_AV, SCL_MA, SDA_MA, SCL_EP, SDA_EP, SCL_HDCP, SDA_HDCP) between one of the above devices and IC5206 (main microcomputer)	None
Red			Blue 9		Main microcomputer	Defective IC5206 (main microcomputer) Failure in communication (TXD_IF, RXD_IF, CLK_IF, CE_IF, BUSY_IF) between IC5206 (main microcomputer) and IC5002	None
Red			Blue 10		Fan	Failure in the fan motor, or the fan stopped because of dust attached to the fan	None
Red			Blue 11		MR or unit having abnormally high temperature	The Media Receiver or the unit being used at high temperature	Power off. Internal temperature is too high. Check temperature around media receiver. [SD011]
Red			Blue 12		Digital tuner	Defective DTV tuner Failure in communication (TXD_DT, RXD_DT) between the digital tuner and IC5206 (main microcomputer)	None
Red			Blue 13		ASIC power supply (DC-DC)	Defective U4201 (DD_CON) or short-circuiting elsewhere *6	None
Red 2		Red		PD	POWER	*2	None
Red 3		Red			SCAN	*2	None
Red 4		Red			SCN-5V	*2	None
Red 5		Red			Y-DRV	*2	None
Red 6		Red			Y-DCDC	*2	None
Red 7		Red			Y-SUS	*2	None
Red 8		Red			ADRS	*2	None
Red 9		Red			X-DRV	*2	None
Red 10		Red			X-DCDC	*2	None
Red 11		Red			X-SUS	*2	None
Red 12		Red			D-DCDC	*2	None
Red 13		Red			IC4	*2	None
Red 15		Red			UNKNOWN	*2	None

*1: Shutdown (SD) is a protective operation controlled by the microcomputer, and you can turn on the unit again using the remote control unit. Power-down (PD) is a protective operation activated by the circuitry and can be reset after AC power is off for about 1 minute.

*2: Refer to the service manual of the PDP-436PU or PDP-506PU.

*3: Only for EU and IRD model. *4: Only for J model.

*5: Except for US model. *6: Only for one-body model.

SYSTEM RESET THROUGH SERVICE MODE After Replacing Main Assy in G-6 Media Receiver or G-7 panel

TV Guide option must be turned off

TO TURN OFF TV GUIDE

In order to enter Service Mode, TV guide must be turned off

In order to do this procedure you must **have and use** the correct remote. The full function remote that came with the set has a TV Guide Logo in a red box. This is the remote you should use.

NOTE: If TV guide has not yet been setup, then the 1st step is to follow instructions to set TV guide up. Enter ZIP code, cable or ant. etc.

Then:

1. press and release the **"TV Guide"**. TV guide will appear on the screen.
2. Navigate to the TV Guide tool bar and use the **">"** button to select **"setup"** in the menu and press and release the **"enter"** button
3. use the **"arrow down"** button to select **"default options"**
4. press and release the **"enter"** button and select **"general defaults"**
5. press and release the **"enter"** button (opens menu on lower left side)
6. use the **"arrow down"** button to select **"auto guide"**
7. use the **">"** button to select **"off"**
8. use the **"arrow down"** button to select **"done"**
9. press and release the **"enter"**
10. press and release the **"TV Guide"** button to turn the display off

System Reset Using Service Mode:

1. Enter Service Mode
2. Use the **"muting"** button to select **"initialize"** screen
3. While on the **"initialize"** screen
4. Use the **"down arrow"** button to select **"final setup"**
5. Press and release the **"enter"** button to select **"data reset"**
6. Use the **">"** button on the remote to select **"yes"**
7. Press and hold the **"enter"** button until the screen goes black release **"enter"** button on remote.
8. Power the unit off using the remote control
9. Unplug the power cord from the media receiver to complete the reset
10. Plug in the media receiver; turn the system on and reset is complete.

How to enter the Factory Mode by Remote control.

- ① Turn off the TV Guide feature
- ② Set unit to Standby Mode
- ③ Press and release the **DISPLAY** Button
- ④ Wait 4 seconds
- ⑤ **LEFT** Button (←)
- ⑥ **UP** Button (↑)
- ⑦ **LEFT** Button (←) - Within 5 seconds
- ⑧ **RIGHT** Button (→)
- ⑧ **POWER** Button

Method Using Integrator mode:

When Replacing Main Assy in G-6 Media Receiver or G-7 panel

Press and release **"HOME MENU"** and **"POWER"** buttons in sequence on the remote control. Unit will power up in **"INTERGRATOR"** mode.

Hold the **DISPLAY** button on the remote until **"data reset or all reset"** appears then release button.

Press **Right ">"** button to select **"yes"** then release button

Press and hold **ENTER** button on remote until test screen disappears. Release button.

Unplug power cord from media receiver to complete reset. Wait 30sec.

Plug in media receiver power cord, turn system on and reset is now complete

Mode Ls

PDP4270HD

PDP4271HD

PDP5070HD

PDP5071HD

PDP6070HD

PDP6071HD

PR0507PU

PR0607PU

Block Diagrams

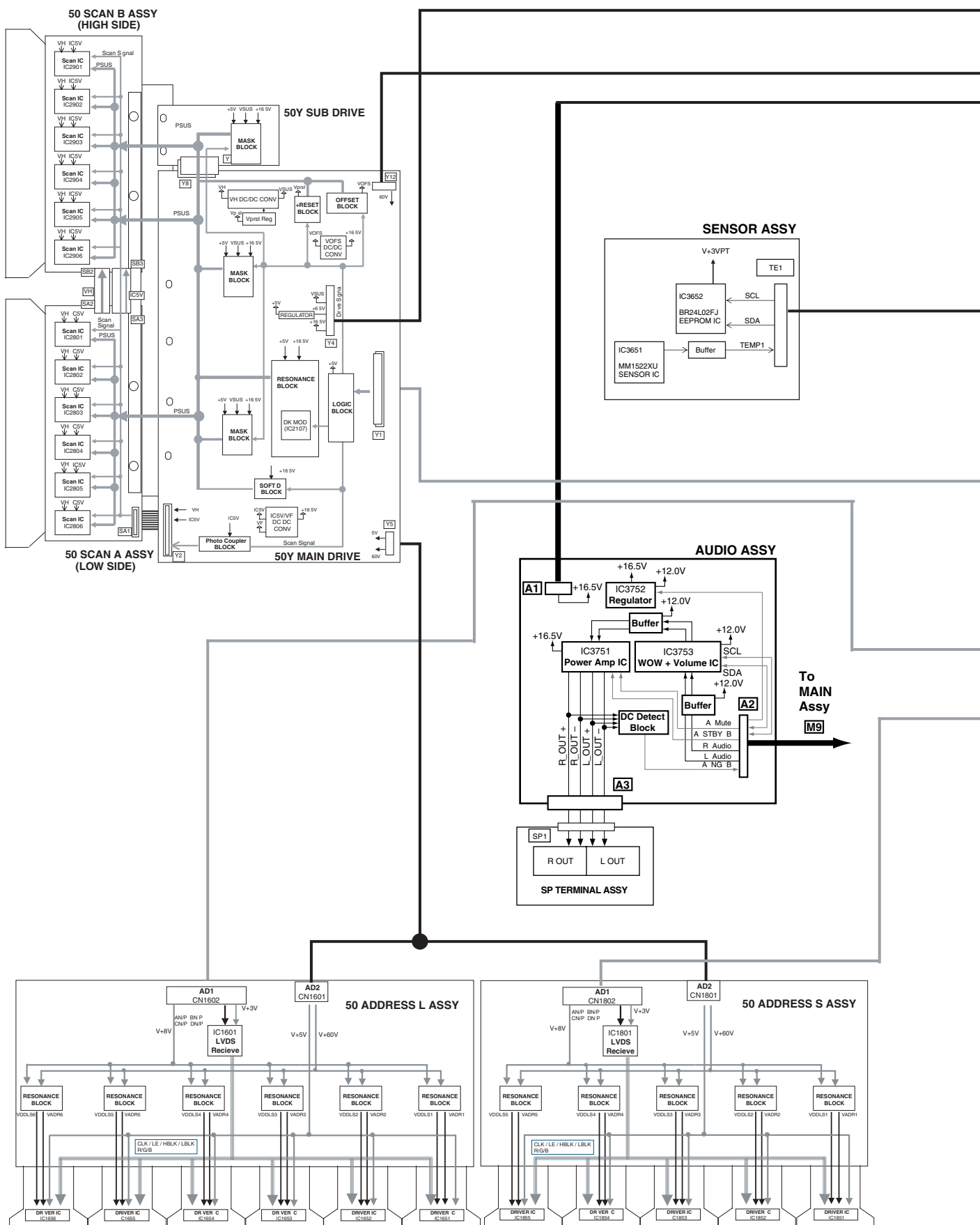
Quick Reference

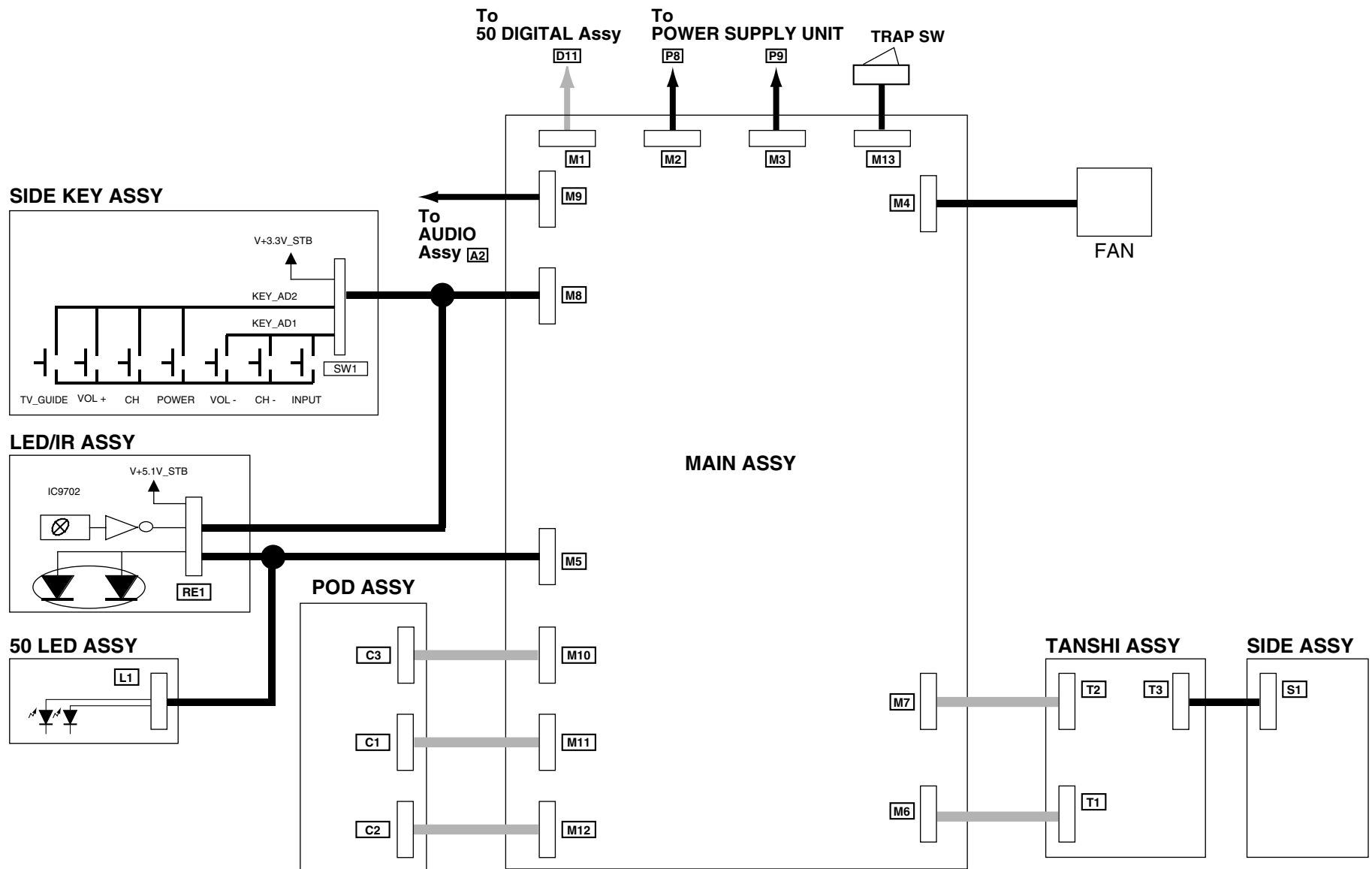
Power-Down & Shut-Down Diagnosis

System Reset

Power Supply Jumper

PDP4270HD, PDP4271HD, PDP5070HD, PDP5071HD, PR0507PU
Block Diagram





Mode Ls

PDP6070HD

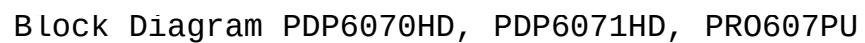
PDP6071HD

PR0607PU

Block Diagrams on the next two pages

POWER SW





Block Diagram PDP6070HD, PDP6071HD, PR0607PU

Quick Reference upon Service Visit ①

Notes, PD/SD diagnosis, and methods for various settings

Notes when visiting for service

1. Notes when disassembling/reassembling

① Rear case

When reassembling the rear case, the screws must be tightened in a specific order. Be careful not to tighten them in the wrong order forcibly. For details, see "Rear Case" in "6. DISASSEMBLY"

② Attaching screws for the HDMI connector

When attaching the HDMI connector after replacing the Main Assy, secure the HDMI connector manually with a screwdriver, but not with an electric screwdriver. If you tighten the screws too tightly with an electric screwdriver, the screw heads may be damaged, in which case the screws cannot be untightened/tightened any more.

2. On parts replacement

① How to discharge before replacing the Assys

A charge of significant voltage remains in the Plasma Panel even after the power is turned off. Safely discharge the panel before replacement of parts, in either manner indicated below:

A: Let the panel sit at least for 3 minutes after the power is turned off.
B: Turn the Large Signal System off before the power is turned off then, after 1 minute, turn the power off.

For details, see "10.2 Power ON/OFF Function for the Large-Signal System."

② On the settings after replacement of the Assys

Some boards need settings made after replacement of the Assys. For details, see "7. ADJUSTMENT"

3. On various settings

① SR+

After a repair using a PC, be sure to restore the setting for the RS-232C connector to SR+.

② Setting in Factory mode

After a Mask indication into the panel is performed, be sure to set the Mask setting to "OFF" then exit Factory mode.

PD/SD			
Item		No. of LEDs flashing	
		Red	Blue
Panel section	Communication with the panel drive IC		Blue 1
	Communication with the module IIC		Blue 2
	DIGITAL-RST2		Blue 3
	Panel high temperature		Blue 4
Main section	Audio		Blue 5
	Communication with the Module microcomputer		Blue 6
	Main 3-wire serial communication		Blue 7
	Main IIC communication		Blue 8
	Communication with the Main microcomputer		Blue 9
	FAN		Blue 10
	Unit high temperature		Blue 11
	Communication with the D-TUNER		Blue 12
	MTB-RST2/RST4		Blue 13
	POWER	Red 2	
	SCAN	Red 3	
	SCN-5V	Red 4	
	Y-DRIVE	Red 5	
	Y-DCDC	Red 6	
	Y-SUS	Red 7	
	ADRS	Red 8	
	X-DRIVE	Red 9	
	X-DCDC	Red 10	
	X-SUS	Red 11	
	UNKNOWN	Red 15	

How to enter the Factory Mode by Remote control.

- ① Turn off the TV Guide feature
- ② Set unit to Standby Mode
- ③ Press and release the **DISPLAY** Button
- ④ Wait 4 seconds
- ⑤ **LEFT** Button (←)
- ⑥ **UP** Button (↑)
- ⑦ **LEFT** Button (←) - Within 5 seconds
- ⑧ **RIGHT** Button (→)

How to enter Integrator mode using the supplied remote control unit

- ① Enter the Standby mode.
- ② Press [MENU].
- ③ Press [TV ⏻].

Release TRAP SW-ERR

- ① Enter the Factory mode.
- ② Select the INITIALIZE mode.
- ③ Hold [DISPLAY] pressed for at least 5 seconds.

How to switch UART ① (Integrator)

- ① Enter the Integrator mode.
- ② Display "OFF" using [↩].
- ③ Change the communication speed using [↓], then [↩].

How to switch UART ② (During Standby)

- ① Enter the Standby mode.
- ② Hold [VOL +] or [VOL -] pressed for 3 seconds.
- ③ Hold [SPLIT] pressed for 3 seconds.
- ④-1 To set to 232C, press [ENTER].
- ⑤-2 To set to SR+, press [HOME MENU].

Note: If switching is completed successfully, the red LED will flash twice.

Note 1: Use a remote control unit supplied with the 6th-generation models or later.

Note 2: Do not hold a key pressed for more than 5 seconds.

How to locate several items on the Factory menu

{ } : Item on the Factory menu
[] : Key on the remote control unit
" " : Screen indication

1. Confirmation of accumulated power-on time and power-on count

Select {INFORMATION} then {HOUR METER}.
(After entering Factory mode, press [↓] four times.)

2. Confirmation of the Power-down and Shutdown histories

① Panel system

PD: Select {PANEL FACTORY} then {POWER DOWN}.
(After entering Factory mode, press [MUTING] once, press [ENTER], then press [↓] three times.)

SD: Select {PANEL FACTORY} then {SHUT DOWN}.
(After entering Factory mode, press [MUTING] once, press [ENTER], then press [↓] four times.)

② Main Assy

Select {INFORMATION} then {MAIN NG}.
(After entering Factory mode, press [↓] three times.)

3. How to display the Mask indication

① Mask indication in the panel side

1. Select {PANEL FACTORY} then {RASTER MASK SETUP}.
(After entering Factory mode, press [MUTING] once, press [ENTER], then press [↓] 8 times.)
2. Press [ENTER], then select a Mask indication, using [↑] or [↓].

② Mask (SG screen) indication in the Main Assy (MAIN VDEC)

1. Select either Input 1 or 2 or 4, to which no signal is input (black screen).
2. Select {INITIALIZE} then {SG MODE}. Press [←]. (After entering Factory mode, press [MUTING] three times, then press [↓] once.)
Then, the indication at the lower right of the screen changes from "OFF" to "ANA AD YCBCR".
3. You can change Mask patterns by pressing [↓] to select {SG PATTERN} then using [←] or [→].

Note: When you switch "SG MODE" routes, some displays become monochrome, as they are in Y-signal only mode.

Adjustments and Settings after replacement of the Assys (Procedures in Factory mode)

1. Digital Video Assy: Transfer of backup data

- ① Select {PANEL FACTORY}, {ETC}, then {BACKUP DATA}. (After entering Factory mode, press [MUTING] once, press [ENTER], press [↓] seven times, then press [ENTER].)
- ② Select {TRANSFER}, using [→], then hold [SET] pressed for at least 5 seconds.
- ③ After transfer of backup data is completed, {ETC} is automatically selected, and the LED on the front panel returns to normal lighting.

2. MAIN Assy (U): Execution of FINAL SETUP.

- ① Select {INITIALIZE} then {FINAL SETUP}, then press [ENTER]. (After entering Factory mode, press [MUTING] three times, then press [↓] four times.)
- ② Select "YES", using [→]. Then hold [ENTER] pressed for at least 5 seconds.
- ③ After "FINAL SETUP IS COMPLETE" is displayed on the screen, turn the POWER switch of the main unit off.

3. POWER SUPPLY Unit: Clearance of the accumulated power-on count and maximum temperature value

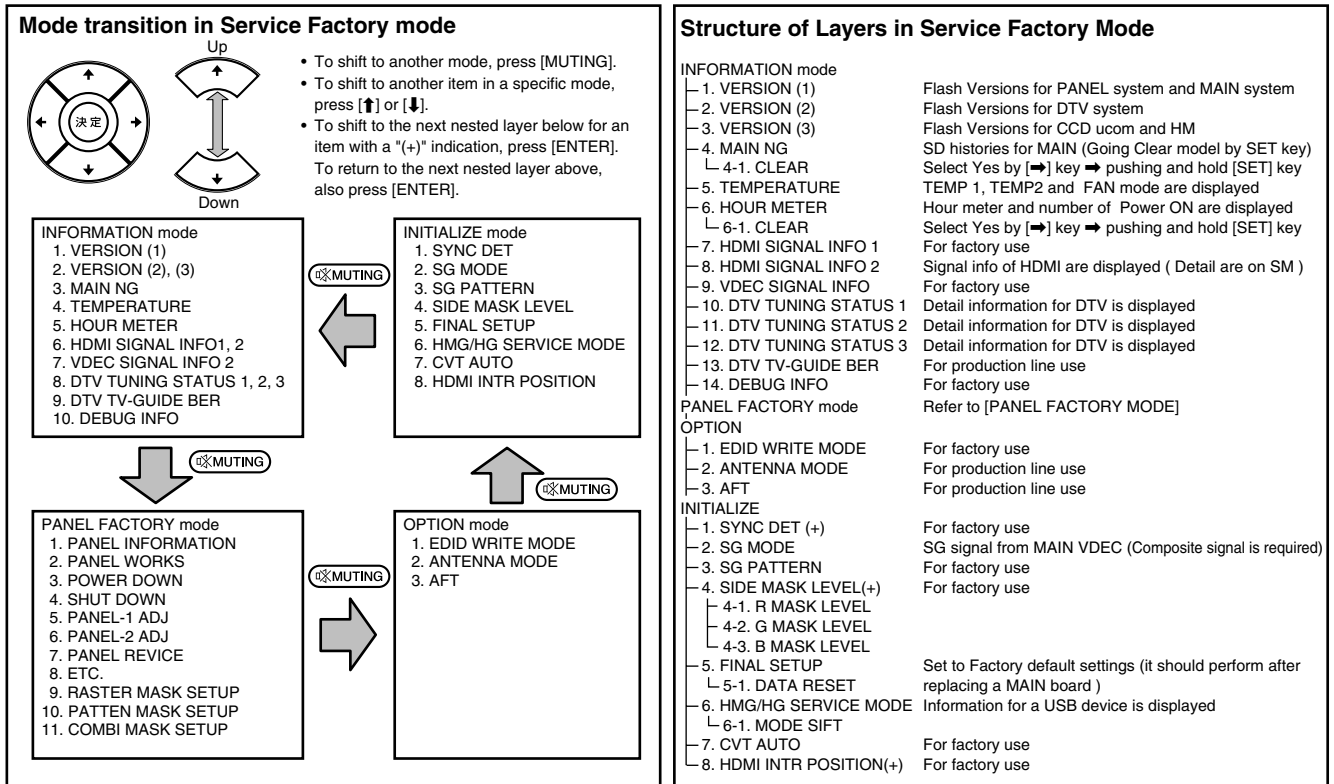
- ① Select {PANEL FACTORY}, {ETC}, then {P COUNT INFO}. (After entering Factory mode, press [MUTING] once, press [ENTER], press [↓] seven times, press [ENTER], then press [↓] six times.)
- ② Press [→] to select "CLEAR". Hold [SET] pressed for at least 5 seconds.
After clearance is completed, "ETC" is automatically selected. Clear the maximum temperature value (MAX TEMP) in the same manner.

4. Other Assys: Clearance of the maximum temperature value

- ① Select {PANEL FACTORY}, {ETC}, then {MAX TEMP}. (After entering Factory mode, press [MUTING] once, press [ENTER], press [↓] seven times, press [ENTER], then press [↓] seven times.)
- ② Press [→] to select "CLEAR". Hold [SET] pressed for at least 5 seconds.
After clearance is completed, "ETC" is automatically selected.

Quick Reference upon Service Visit ②

Mode transition and structure of layers in Service Factory mode



Flash Versions for PANEL system and MAIN system

Flash Versions for DTV system

Flash Versions for CCD ucom and HM

SD histories for MAIN (Going Clear model by SET key)

Select Yes by [→] key → pushing and hold [SET] key

TEMP 1, TEMP2 and FAN mode are displayed

Hour meter and number of Power ON are displayed

Select Yes by [→] key → pushing and hold [SET] key

For factory use

Signal info of HDMI are displayed (Detail are on SM)

For factory use

Detail information for DTV is displayed

Detail information for DTV is displayed

Detail information for DTV is displayed

For production line use

For factory use

Refer to [PANEL FACTORY MODE]

For factory use

For production line use

For production line use

For factory use

SG signal from MAIN VDEC (Composite signal is required)

For factory use

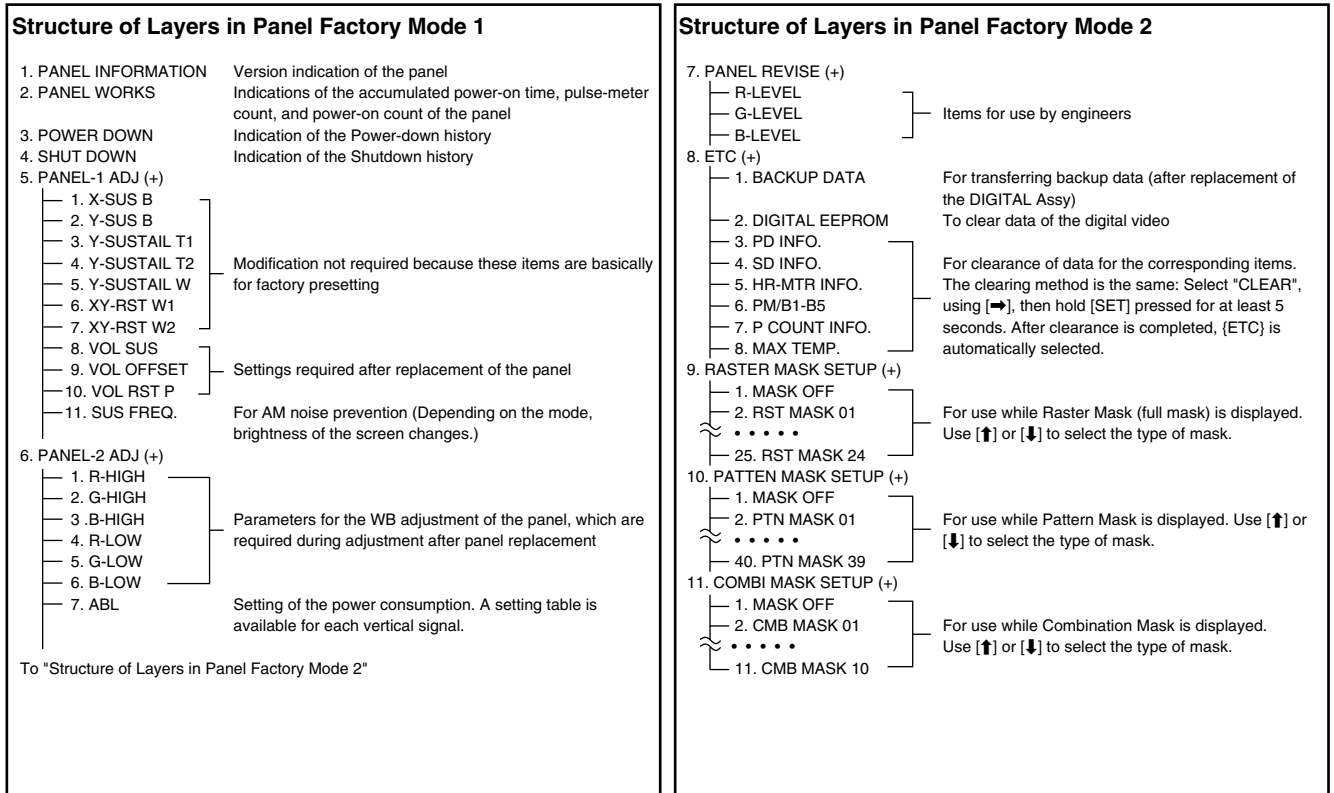
For factory use

Set to Factory default settings (it should perform after replacing a MAIN board.)

Information for a USB device is displayed

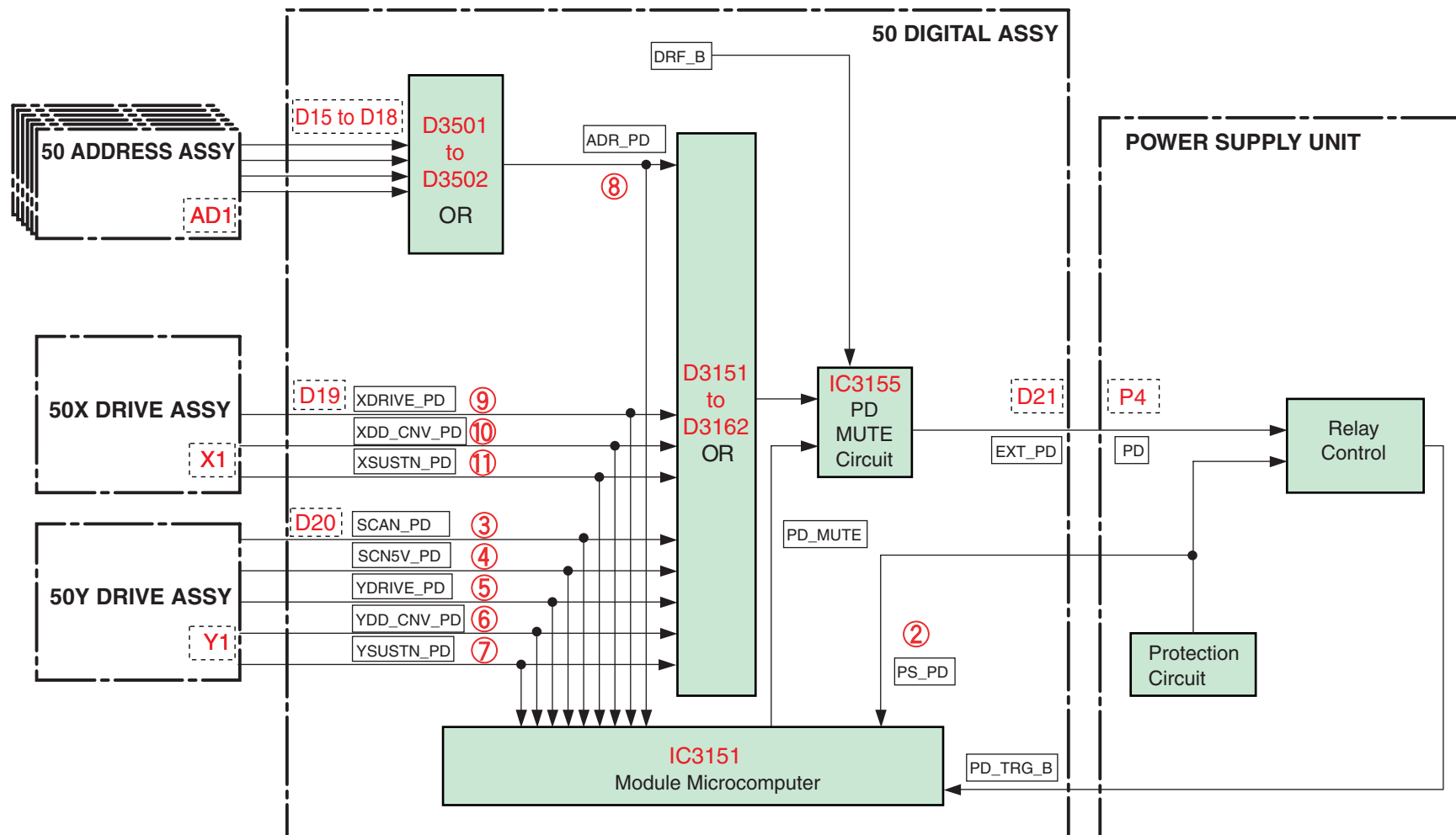
For factory use

For factory use



Power Down (Blinking in Red)

Note:
The figures ② to ⑪ indicate the number of times the LED flashes when power-down occurs in the corresponding route.



PDP4270HD, PDP4271HD, PDP5070HD, PDP5071HD, PR0507PU

PDP6070HD, PDP6071HD, PR0607PU

■ Prediction of failure symptoms when a PD (power-down) is generated

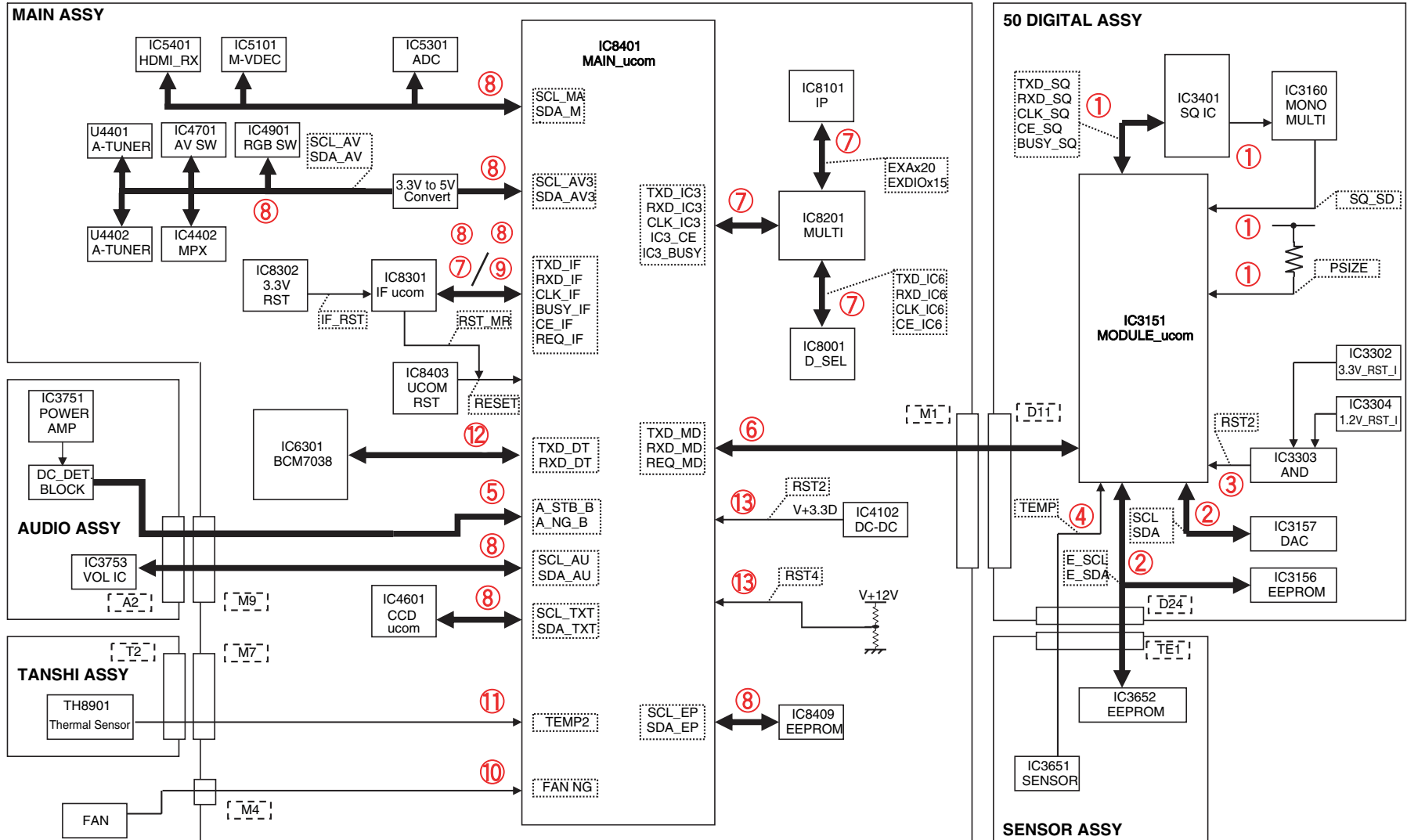
LED Flashing Count	PD Circuit	Checkpoint	Main Cause
2	Power supply PD	POWER SUPPLY Unit	Failure in the POWER SUPPLY Unit
3	SCAN PD	50 SCAN A, B Assy	SCAN IC is damaged (short-circuiting between VH and GNDH)
		50Y DRIVE Assy	Connectors disconnected between the POWER SUPPLY Unit and the Y DRIVE Assy Connectors disconnected between the DIGITAL and the Y DRIVE Assys Failure in the VH power
4	IC5V PD	50SCAN A, B Assy	SCAN IC is damaged (short-circuiting between IC5V and GNDH) Disconnection of the scan-bridge (15-pin) connector
		50Y DRIVE Assy	Failure in the photo coupler Abnormality in the IC5V DC/DC converter
5	Y-DRIVE PD	50Y DRIVE Assy	Abnormality in the 16.5 V power
6	Y DCDC PD	50Y DRIVE Assy	Abnormality in the VOFS DC/DC converter
			Abnormality in the VPRST DC/DC converter
			Abnormality in VC_15V DC/DC converter
7	Y SUS PD	50Y DRIVE Assy	Abnormality in the DK module
			Abnormality in the control signal line
8	Address PD	50 ADDRESS Assy	Short-circuiting of Vadr TCP damaged
9	X-DRIVE PD	50X DRIVE Assy	Connectors disconnected between the DIGITAL and the X DRIVE Assys Abnormality in the 16.5 V power
10	X DCDC PD	50X DRIVE Assy	Abnormality in VC_15V power
			Abnormality in VXNRST power
11	X SUS PD	50X DRIVE Assy	Abnormality in the DK module
			Abnormality in the control signal line
			Connectors disconnected between the POWER SUPPLY Unit and the X DRIVE Assy

■ How to distinguish which connector is disconnected

Assy	Connector	To which Assy the Connector is Connected	Frequency of LED Flashing	Screen Display
50X DRIVE Assy	CN1001	50 DIGITAL Assy	11 (XDRIVE)	—
	CN1205	POWER SUPPLY Unit (ADR system power)	—	White (left half of the screen)
	CN1204	POWER SUPPLY Unit (drive system power)	12 (X-SUS)	—
	CN1206	50 ADDRESS Assy	8 (ADR)	—
50Y DRIVE Assy	CN2001	50 DIGITAL Assy	3 (SCAN)	—
	CN2204	POWER SUPPLY Unit (drive system power)	3 (SCAN)	—
	CN2206	POWER SUPPLY Unit (ADR system power)	—	White (right half of the screen)
	CN2205	50 ADDRESS Assy	8 (ADR)	—
	CN2601	50 SCAN A, B Assy	4 (SCN-5V)	—
50 SCAN A, B Assy	CN2801	50Y DRIVE Assy	4 (SCN-5V)	—
50 ADDRESS Assy	CN1602, CN1802	50 DIGITAL Assy	8 (ADRS)	—
	CN1601, CN1801	50X DRIVE Assy, 50Y DRIVE Assy	8 (ADRS)	—

Shut Down (Blinking in Blue)

Note : The figures ① to ⑬ indicate the number of times the LED flashes when shut-down occurs in the corresponding route.



PDP4270HD, PDP4271HD, PDP5070HD, PDP5071HD, PR0507PU

PDP6070HD, PDP6071HD, PR0607PU

■ SD (SHUT DOWN) DIAGNOSIS

Frequency of LED Flashing	Major Type	Detailed Type		Log Indication in Factory Mode		Checkpoint	Possible Defective Part	Remarks
				MAIN	SUB			
Blue 1	Abnormality in the Sequence Processor	Communication error		SQ-IC	RTRY	CLK_SQ/TXD_SQ, etc.	IC3151, IC3401	SQ_IC communication not established
		Drive stop			SQNO	Check if the video sync signal is input to IC3401.	CN3001, IC3401	If the signal detection by the module microcomputer is properly performed, the unit operates on an external sync.
		Busy			BUSY	BUSY_SQ	IC3401	If BUSY_SQ remains high, a shutdown is generated.
		Incoherent version (hardware, software)			VER-HS	Check the model number of the DIGITAL Assy and the destination of the sequence processor.	IC3301, IC3401	The written SQ_PROG is incoherent with data on the DIGITAL Assy.
Blue 2	Failure in IIC communication with the module microcomputer	DIGITAL Assy EEPROM		MD-IIC	EEPROM	IIC communication line of IC3156	IC3151, IC3156	Check the pull-up resistor of the IIC control line and the power to the corresponding IC.
		SENSOR Assy EEPROM			BACKUP	IIC communication line of IC3652	IC3151, IC3652	Check the pull-up resistor of the IIC control line and the power to the corresponding IC.
		DAC			DAC	IIC communication line of IC3157	IC3151, IC3157	Check the pull-up resistor of the IIC control line and the power to the corresponding IC.
Blue 3	Abnormality in RST2 power decrease	-		RST2	-	Is the output voltage of the DC-DC converter low? The 12 V power is not output.	AXY1135 POWER SUPPLY Unit	If RST2 does not become high after the unit is turned on, a shutdown will be generated in several seconds. Check if V + 12 V is started.
Blue 4	High temperature of the panel	-		TMP_NG	TEMP1	Ambient temperature Abnormality in the panel temperature sensor	- IC3651	If TEMP1 that is read by the module microcomputer is 75°C or higher, a shutdown will be generated. Check the connection with the SENSOR Assy.
Blue 5	Short-circuiting of the speakers	-		AUDIO	-	Speaker terminals	CN3753, CN3901, JA3901	Check if any speaker cable is in contact with the chassis.
						AUDIO_AMP	IC3751	Check if the AMP output is short-circuited.
						Periphery of the cable between A2 and M8	CN3752, CN4007	Check if cables are firmly connected.
Blue 6	Failure in communication with the module microcomputer	-		MODULE	-	Communication line between MAIN and MOD	IC3151, IC8401	Check the communication lines (RXD_MOD/RXD_MOD/REQ_MOD).
						Periphery of the cable between D11 and M2	CN3001, CN4001	Check if cables are firmly connected.
Blue 7	Failure in main microcomputer 3-wire serial communication	IF microcomputer		MA-SRL	IF	Communication line between IF and MAIN	IC8301, IC8401	Check the communication lines (TXD_IF/RXD_IF/CLK_IF/BUSY_IF/CE_IF/REQ_IF).
		MULTI			MULTI	Communication line between MULTI_M and MAIN	IC8201, IC8401	Check the communication lines (TXD_IC3/RXD_IC3/CLK_IC3/CE_IC3/IC3_BUSY).
					I/P	Bus communication line between IP and MULTI_M	IC8101, IC8201	Check the communication lines (EXA/EXDIO).
					D_SEL	Communication line between D_SEL and MULTI_M	IC8001, IC8201	Check the communication lines (TXD_IC6/RXD_IC6/CLK_IC6/CE_IC6).
Blue 8	Failure in IIC communication with the main microcomputer	AV Switch		MA-IIC	AV-SW	IIC communication line between AV_SW and MAIN	IC4701, IC8401	Check the communication lines (SCL_AV3/SDA_AV3 or SCL_AV/SDA_AV).
		RGB Switch			RGB-SW	IIC communication line between RGB_SW and MAIN	IC4901, IC8401	Check the communication lines (SCL_AV3/SDA_AV3 or SCL_AV/SDA_AV).
		Analog Tuner			FE1	IIC communication line between A_Tuner and MAIN	U4401, IC8401	Check the communication lines (SCL_AV3/SDA_AV3 or SCL_AV/SDA_AV).
		Analog Tuner			FE2	IIC communication line between A_Tuner and MAIN	U4402, IC8401	Check the communication lines (SCL_AV3/SDA_AV3 or SCL_AV/SDA_AV).
		MPX			MPX	IIC communication line between MPX and MAIN	IC4402, IC8401	Check the communication lines (SCL_AV3/SDA_AV3 or SCL_AV/SDA_AV).
		Main VDEC			M-VDEC	IIC communication line between M_VDEC and MAIN	IC5101, IC8401	Check the communication lines (SCL_MA/SDA_MA).
		AD/PLL			ADC	IIC communication line between ADC and MAIN	IC5301, IC8401	Check the communication lines (SCL_MA/SDA_MA).
		HDMI			HDMI	IIC communication line between HDMI_RX and MAIN	IC5401, IC8401	Check the communication lines (SCL_MA/SDA_MA).
		CCD			CCD	IIC communication line between CCD and MAIN	IC4601, IC8401	Check the communication lines (SCL_TXT/SDA_TXT).
		64K EEPROM			MA-EEP	IIC communication line between EEPROM and MAIN	IC8409, IC8401	Check the communication lines (SCL_EP/SDA_EP).
		VOLUME IC			AUDIO	IIC communication line between VOL_IC and MAIN	IC3753, IC8401	Check the communication lines (SCL_AUDIO/SDA_AUDIO).
		VOLUME IC			AUDIO	Periphery of the cable between A2 and M9	CN3752, CN4007	Check if cables are firmly connected.
Blue 9	Failure in communication with the main microcomputer and unknown		-	MAIN	-	Communication line between IF and MAIN	IC8301, IC8303, IC8304, IC8401	Check the communication lines (TXD_IF/RXD_IF/CLK_IF/BUSY_IF/CE_IF/REQ_IF).
Blue 10	Failure in the fan	-		FAN	-	Dirt attached to the fan motor	-	Check the fan.
						Periphery of the cable between fan and M4	CN4009	Check if cables are firmly connected.
						Periphery of the fan control regulator	IC8407	-
Blue 11	High temperature of the unit	-		TEMP2	-	Temperature sensor or its periphery	-	A shutdown is generated if TEMP2 becomes higher than 53°C
						Periphery of the temperature sensor	TH8901, Q8901	TEMP2
						Periphery of the cable between T2 and M7	CN8802, CN4004	Check if cables are firmly connected.
Blue 12	Digital Tuner	-		DTUNER	PS/RST	Startup of IC6301	IC6301	Check startup of BCM7038 and the communication line between IC6301 and MAIN.
					DEVICE	Communication line between MAIN and IC6301	IC6301	Check startup of BCM7038 and the communication line between IC6301 and MAIN.
					TV-G	Startup of the TV-GUIDE application	IC6301	Check startup of the TV-GUIDE application. (*)
					HOME-G	Startup of the HOME-G application	IC6301	Check BCM7038 and its peripheral devices.
Blue 13	Failure in the POWER SUPPLY Unit	DC-DC converter power decrease		MA-PWR	M-DCDC	DC-DC converter or its periphery, RST2	IC4102, Q4106	Check if V + 3.3 V is started.
		POWER SUPPLY			RELAY	The 12 V power is not output, RST4 Periphery of the cable between P8 and M2	- CN4002	Check if V + 12 V is started. Check if cables are firmly connected.

(*) : Check if it becomes banner display when switching channel.

PDP4270HD, PDP4271HD, PDP5070HD, PDP5071HD, PR0507PU
PDP6070HD, PDP6071HD, PR0607PU

■ Information on symptoms that do not constitute failure

Symptom	Cause, item to check, information
HDMI: Symptoms concerning the input format and settings	
The picture color for an INPUT 5 or 6 signal is not correct.	The color setting for INPUT 5 or 6 is not compatible with that of the output equipment. Check whether the color setting is YPbPr or RGB.
The video signal to INPUT 5 or 6 is not displayed, and a message is displayed.	A unsupported video signal is input. Example: 1080p @ 60Hz
The audio signal input to the INPUT 5 or 6 pin jack is not output.	The audio setting for INPUT 5 or 6 is "AUTO," and a video signal is not input. If the audio setting is "AUTO," to output an analog audio signal, the DVI signal must be input via a DVI-HDMI conversion cable. When the DVI equipment is connected, the analog signals are selected with the setting "AUTO."
No sound of signals to INPUT 5 or 6 is output.	The setting on the side of the HDMI output equipment is wrong. Example: Dolby Digital
MONITOR video output	
The video output signal from the MONITOR connector is deteriorated. Or when the video output signal from the MONITOR connector is recorded, its playback picture is deteriorated.	The video signal output from the MONITOR connector is Macrovision protected.
The video signal is not output when the component signal is input to INPUT 2, 3, or 4.	The video signal is not output from the MONITOR connector when the component signal is selected.
The video signal is not output when the video signal is input to INPUT 5 or 6.	The video signal is not output from the MONITOR connector when the HDMI signal is selected.
MONITOR audio output	
The image displayed on the PDP is not synchronized with the sound from the MONITOR audio output.	The audio signal from the MONITOR connector is synchronized with the video output signal from the MONITOR connector.
DIGITAL audio output	
Playback of the signal from the DIGITAL audio output connector is possible, but recording is not possible.	The video signal output from the DIGITAL connector is copy-protected.
The video output signal from the DIGITAL connector is not synchronized with that from the MONITOR video output.	The digital audio output signal from the DIGITAL connector is synchronized with the video signal that is currently displayed, and not with the MONITOR video output.
Miscellaneous	
The no-signal off function is not activated.	The no-signal off function is effective only while a video signal is being input.
The no-operation off function is not activated.	The no-operation off function is effective only while a video signal is being input.
Power management does not function.	Power management is effective only while a signal is being input from a PC.
The AUTO SETUP function is not activated.	The AUTO SETUP function is effective only while a signal is being input from a PC.
The G-Link system is not activated.	Wrong connection of the cable to the SR connector or PC audio connector is suspected.
Control via the SR connector is not possible.	A failure in the G-Link system or wrong connection of the cable to the PC audio connector is suspected.
The audio signal from the PC is not output.	A failure in the G-Link system or wrong connection of the cable to the SR connector is suspected.
The picture-quality setting (AV Selection) is not stored.	The picture-quality setting is stored for each input. As the setting is changed when another input is selected, the user may have a false idea that the setting is not stored.
The picture size changes arbitrary.	The Auto Size setting is set to ON (default is OFF).
The display position of the screen slightly changes every time the unit is turned on.	The orbiter function for minimizing the effects of phosphor burn is activated. As ON/OFF of this function can only be changed on the Integrator menu, turning off of this function by a user is not possible.
The video signal to the S video connector is not displayed.	Although S video input is selected on the menu, the cable is connected via a component video input connector whose function type is the same as S video input.
The video signal to the composite video connector is not displayed.	Although the composite video input is selected on the menu, the cable is connected via a component video connector or S video connector whose function type is the same as the composite video input.

SUPPLEMENT: On the video setting for HDMI

There are three types of HDMI output formats: color difference 4:4:4, color difference 4:2:2, and RGB4:4:4.

(The proportions, such as 4:4:4 and 4:2:2, represent those of the amount of data for video signal components. For example, as for color difference 4:4:4, the proportion of the amount of data as for Y, Cb, and Cr is 4:4:4.)

It is required to make the settings of the PDP according to the settings of the output equipment. For usual operation, however, set them to AUTO. If the color is inappropriate, make the settings manually.

In the HDMI system, video signals are coded at 24 bits per pixel and transmitted as a series of 24-bit pixels. In a case of color difference 4:4:4, Y, Cb, and Cr use 8 bits each. In a case of color difference 4:2:2, Y, Cb, and Cr use 12 bits each, but Cb and Cr are transmitted at a half sampling rate of Y. This unit is capable of processing the upper 10 bits out of 12 bits of video data. Recent high-end DVD players, such as Pioneer DV-79AVi, are capable of outputting 10-bit color-difference signals. In general, it is said that picture quality for color difference 4:2:2 format is assumed to be higher, because human eyes are more sensitive to luminance than to colors. In the case of RGB4:4:4, R, G, and B use 8 bits each.

SYSTEM RESET THROUGH SERVICE MODE

After Replacing Main Assy in G-6 Media Receiver or G-7 panel

TV Guide option must be turned off

TO TURN OFF TV GUIDE

In order to enter Service Mode, TV guide must be turned off

In order to do this procedure you must **have and use** the correct remote. The full function remote that came with the set has a TV Guide Logo in a red box. This is the remote you should use.

NOTE: If TV guide has not yet been setup, then the 1st step is to follow instructions to set TV guide up. Enter ZIP code, cable or ant. etc.

Then:

1. press and release the **"TV Guide"**. TV guide will appear on the screen.
2. Navigate to the TV Guide tool bar and use the **">"** button to select **"setup"** in the menu and press and release the **"enter"** button
3. use the **"arrow down"** button to select **"default options"**
4. press and release the **"enter"** button and select **"general defaults"**
5. press and release the **"enter"** button (opens menu on lower left side)
6. use the **"arrow down"** button to select **"auto guide"**
7. use the **">"** button to select **"off"**
8. use the **"arrow down"** button to select **"done"**
9. press and release the **"enter"**
10. press and release the **"TV Guide"** button to turn the display off

System Reset Using Service Mode:

1. Enter Service Mode
2. Use the **"muting"** button to select **"initialize"** screen
3. While on the **"initialize"** screen
4. Use the **"down arrow"** button to select **"final setup"**
5. Press and release the **"enter"** button to select **"data reset"**
6. Use the **">"** button on the remote to select **"yes"**
7. Press and hold the **"enter"** button until the screen goes black release **"enter"** button on remote.
8. Power the unit off using the remote control
9. Unplug the power cord from the media receiver to complete the reset
10. Plug in the media receiver; turn the system on and reset is complete.

How to enter the Factory Mode by Remote control.

- ① Turn off the TV Guide feature
- ② Set unit to Standby Mode
- ③ Press and release the **DISPLAY** Button
- ④ Wait 4 seconds
- ⑤ **LEFT** Button (←)
- ⑥ **UP** Button (↑)
- ⑦ **LEFT** Button (←) - Within 5 seconds
- ⑧ **RIGHT** Button (→)
- ⑧ **POWER** Button

Method Using Integrator mode:

When Replacing Main Assy in G-6 Media Receiver or G-7 panel

Press and release **"HOME MENU"** and **"POWER"** buttons in sequence on the remote control. Unit will power up in **"INTERGRATOR"** mode.

Hold the **DISPLAY** button on the remote until **"data reset or all reset"** appears then release button.

Press **Right ">"** button to select **"yes"** then release button

Press and hold **ENTER** button on remote until test screen disappears. Release button.

Unplug power cord from media receiver to complete reset. Wait 30sec.

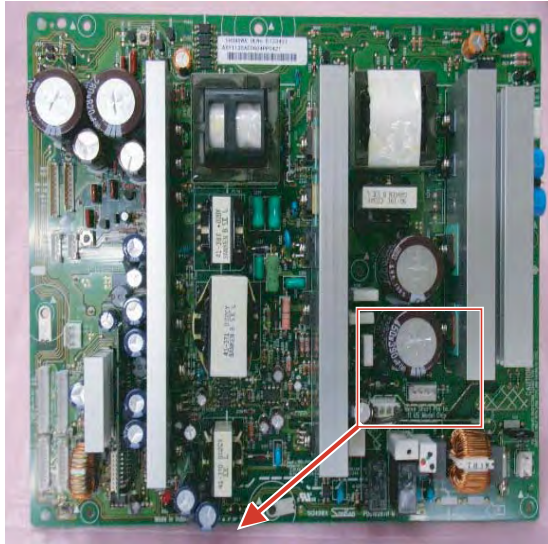
Plug in media receiver power cord, turn system on and reset is now complete

■ Procedure of Changing Jumper Connector after replacing the Power Supply Unit

When replacing the Power Supply Unit, it is necessary to perform the following connector changes.

Otherwise the unit cannot work properly and the unit may be damaged.

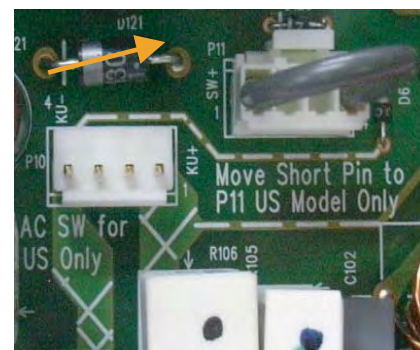
Therefore perform these connector settings without fail when replacing the Power Supply Unit. (before power on the unit)



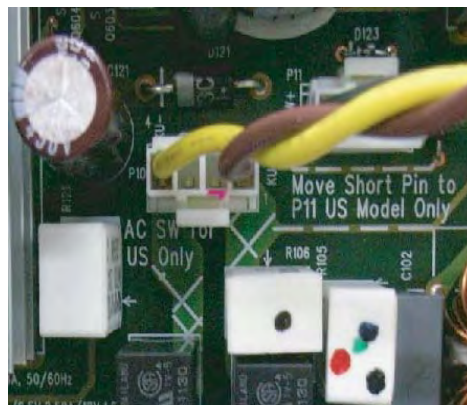
Location of the jumper connector

1. As for service parts, the Jumper connector is connected at connector P10.

2. Remove the jumper connector from connector P10 and connect it to connector P11.



3. Connect the cable connector from power SW to P10.



Mode L

PDP427CMX

PDP507CMX

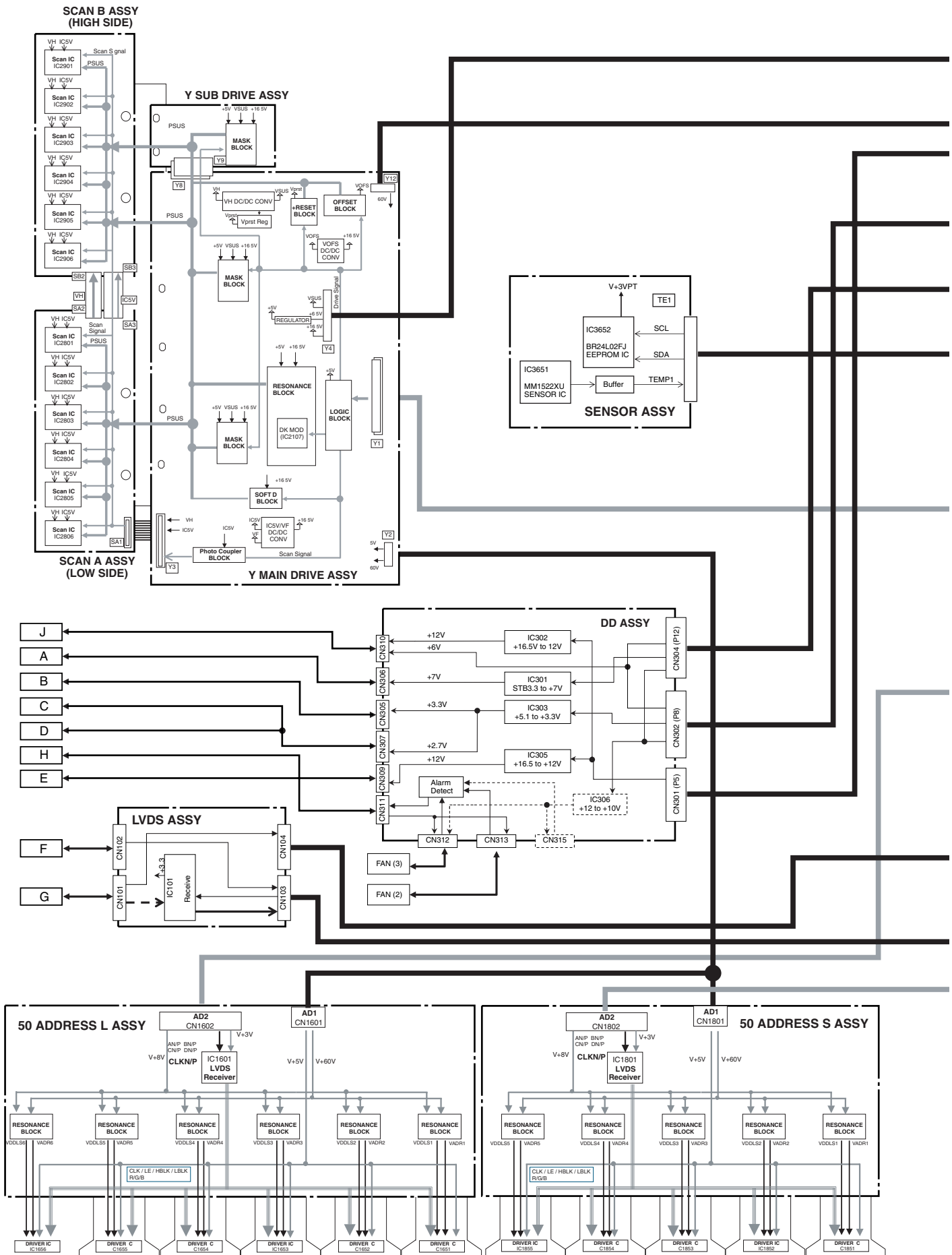
PDP607CMX

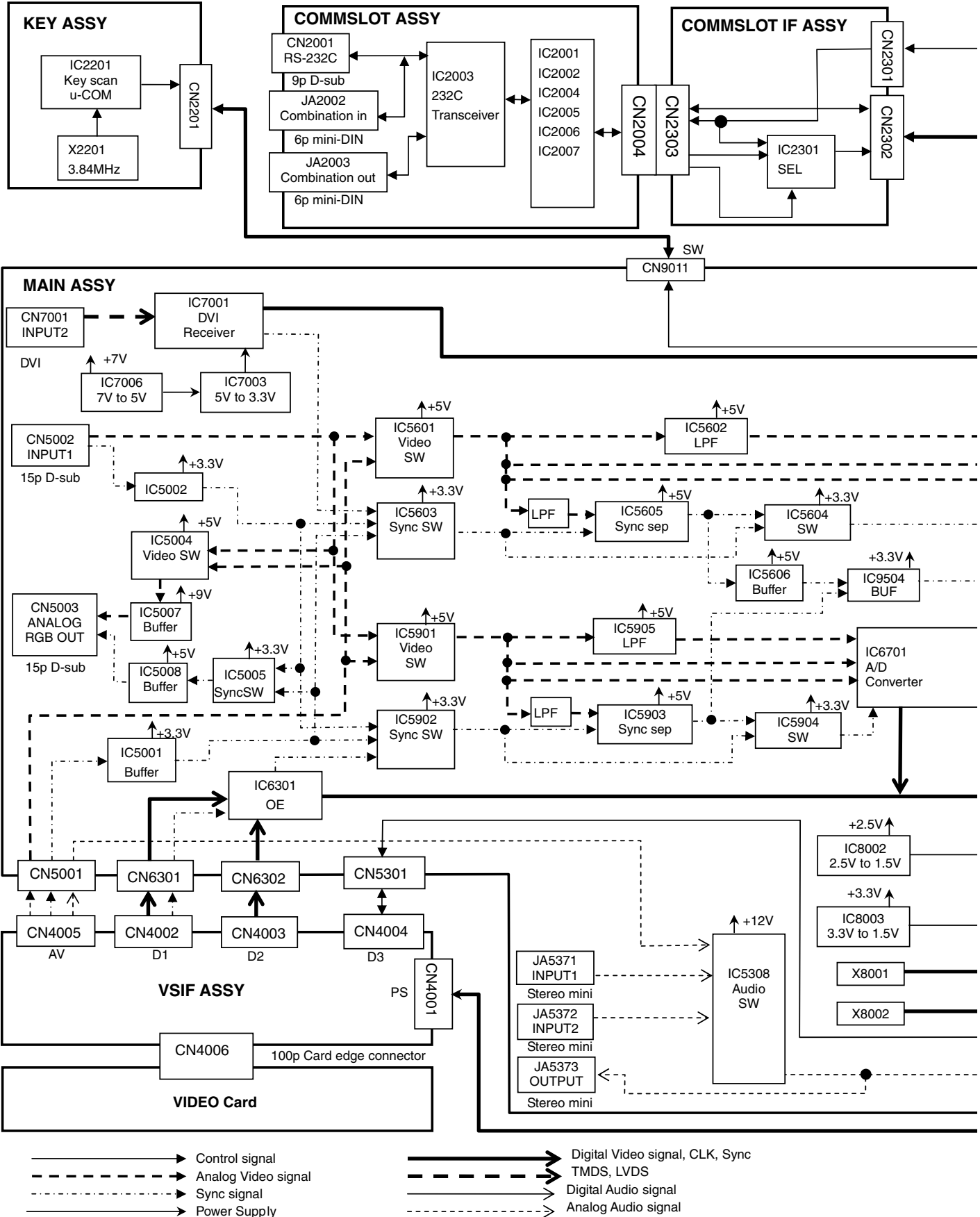
Block Diagrams

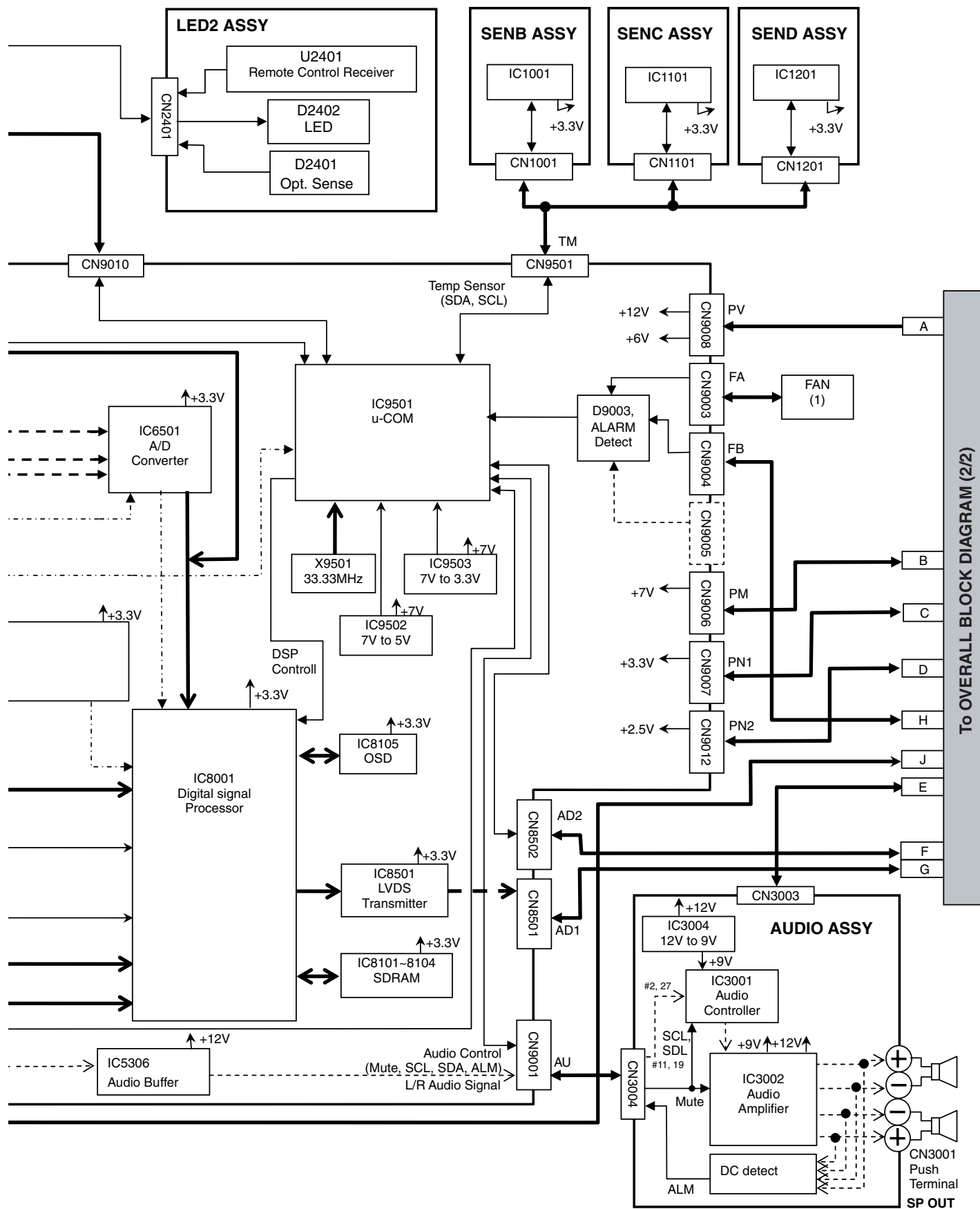
Operation LED's

Power-Down & Shut-Down Diagnosis

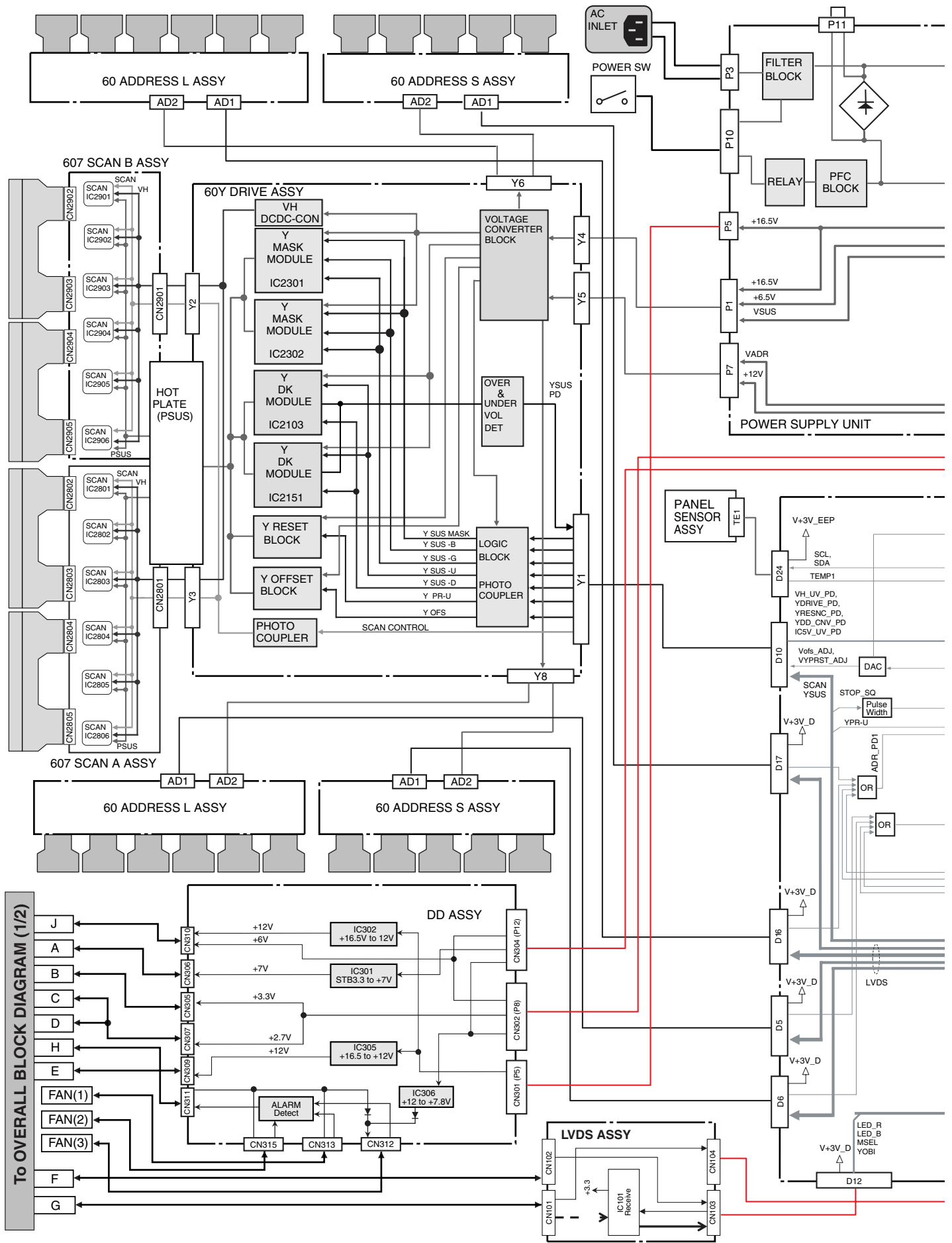
PDP427CMX, PDP507CMX Block Diagram

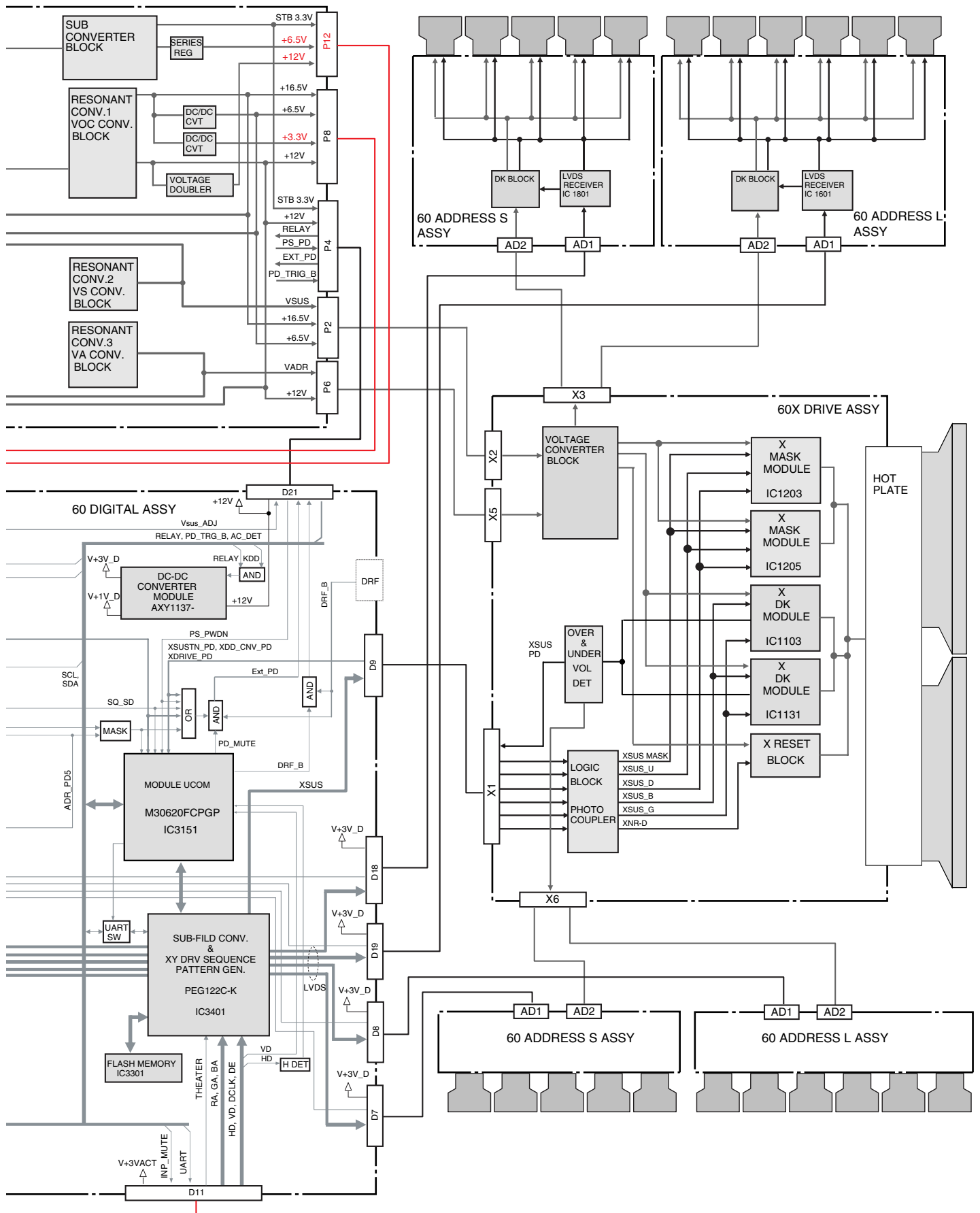






Block Diagram PDP607CMX



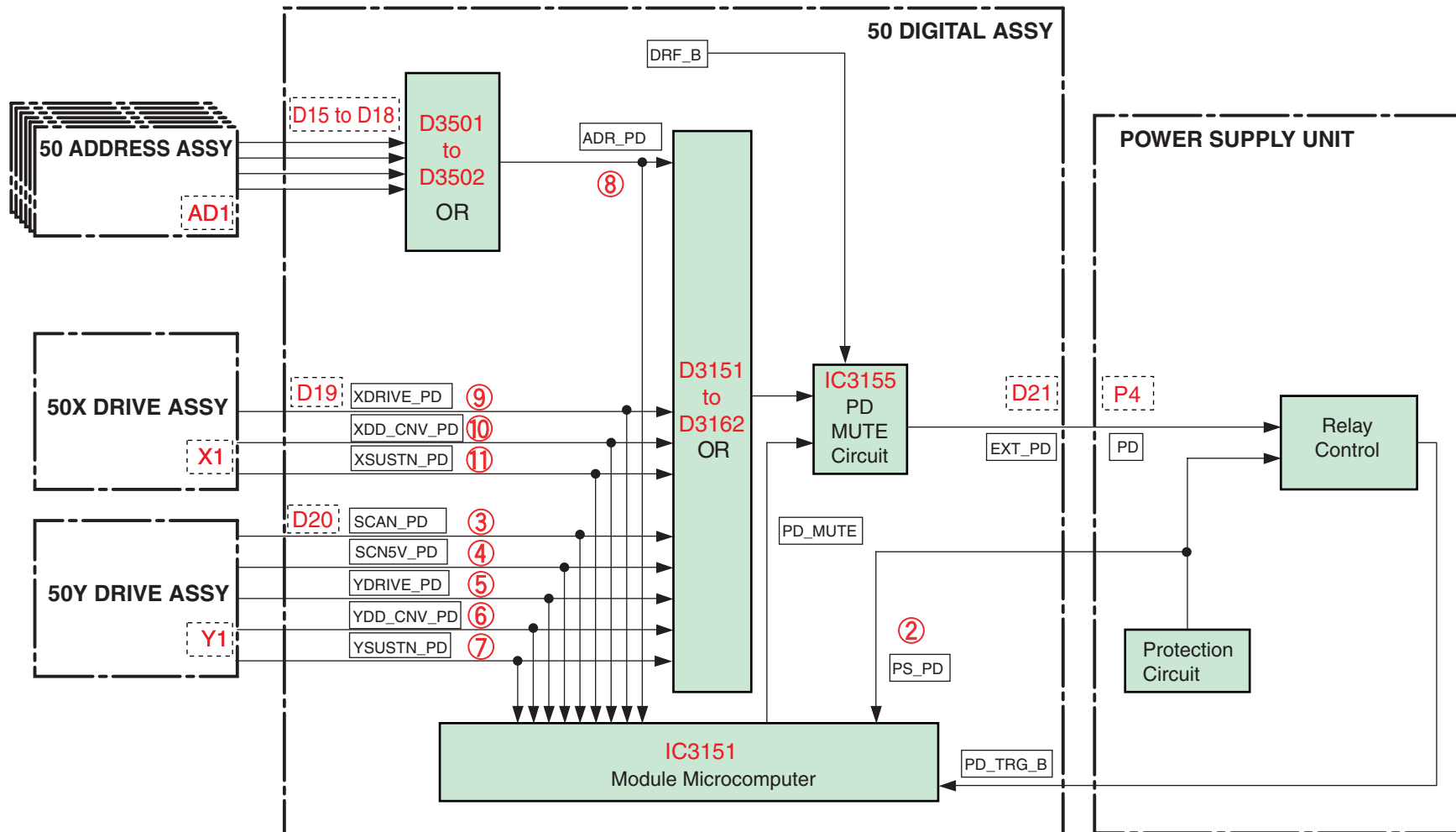


PDP427CMX, PDP507CMX, PDP607CMX

Status	LED Lighting Pattern			Remarks
Power OFF (Indicator OFF)	Not lit	Red		
		Green		
Power ON (Indicator ON)	Green: Lit	Red		
		Green		
Standby	Red: Lit	Red		
		Green		
Power Management	Green flashes at intervals of 1000ms	Red		
		Green		
Power-Down	Red flashes at intervals of 500ms for 1 to n times with 2500ms of pause between switching.	Red		
		Green		
Shutdown	Green flashes at intervals of 500ms for 1 to n times with 2500ms of pause between switching.	Red		
		Green		
No Backup Copy (Panel)	Red lit, and green flashes at intervals of 200ms	Red		
		Green		
During Main micro-computer rewriting	Red flashes at intervals of 300ms	Red		
		Green		
During MD micro-computer rewriting (During MOD)	Red flashes at intervals of 100ms	Red		
		Green		
During ASTRA rewriting (During PNL)	Red and green flashes at intervals of 100ms	Red		
		Green		

Power Down (BLinking in Red)

Note:
The figures ② to ⑪ indicate the number of times the LED flashes when power-down occurs in the corresponding route.



PDP427CMX, PDP507CMX, PDP607CMX

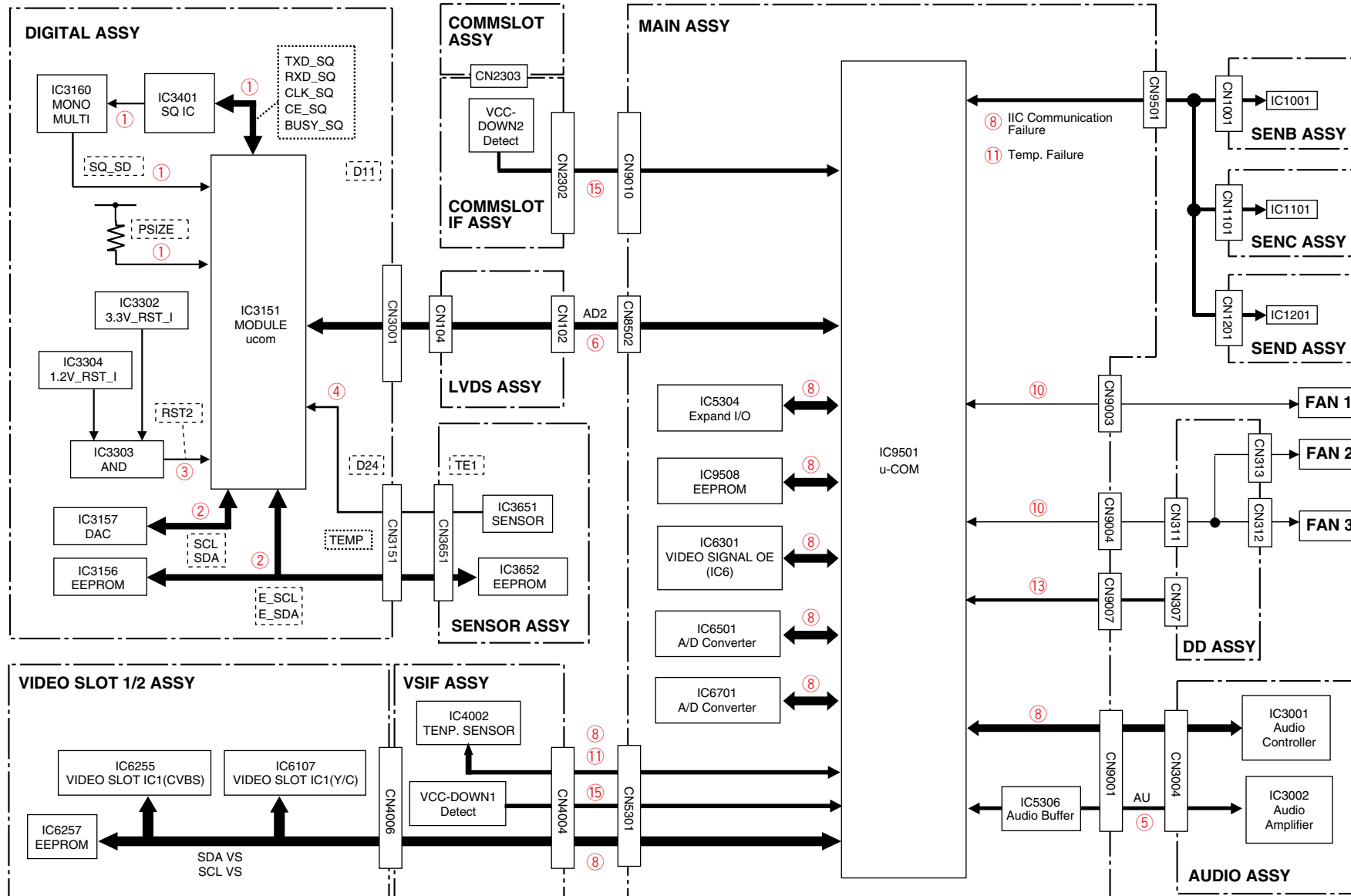
■ Prediction of failure symptoms when a PD (power-down) is generated

LED Flashing Count	PD Circuit	Checkpoint	Main Cause
2	Power supply PD	POWER SUPPLY Unit	Failure in the POWER SUPPLY Unit
3	SCAN PD	50 SCAN A, B Assy	SCAN IC is damaged (short-circuiting between VH and GNDH)
		50Y DRIVE Assy	Connectors disconnected between the POWER SUPPLY Unit and the Y DRIVE Assy Connectors disconnected between the DIGITAL and the Y DRIVE Assys Failure in the VH power
4	IC5V PD	50SCAN A, B Assy	SCAN IC is damaged (short-circuiting between IC5V and GNDH) Disconnection of the scan-bridge (15-pin) connector
		50Y DRIVE Assy	Failure in the photo coupler Abnormality in the IC5V DC/DC converter
5	Y-DRIVE PD	50Y DRIVE Assy	Abnormality in the 16.5 V power
6	Y DCDC PD	50Y DRIVE Assy	Abnormality in the VOFS DC/DC converter
			Abnormality in the VPRST DC/DC converter
			Abnormality in VC_15V DC/DC converter
7	Y SUS PD	50Y DRIVE Assy	Abnormality in the DK module
			Abnormality in the control signal line
8	Address PD	50 ADDRESS Assy	Short-circuiting of Vadr TCP damaged
9	X-DRIVE PD	50X DRIVE Assy	Connectors disconnected between the DIGITAL and the X DRIVE Assys
			Abnormality in the 16.5 V power
10	X DCDC PD	50X DRIVE Assy	Abnormality in VC_15V power
			Abnormality in VXNRST power
11	X SUS PD	50X DRIVE Assy	Abnormality in the DK module
			Abnormality in the control signal line
			Connectors disconnected between the POWER SUPPLY Unit and the X DRIVE Assy

■ How to distinguish which connector is disconnected

Assy	Connector	To which Assy the Connector is Connected	Frequency of LED Flashing	Screen Display
50X DRIVE Assy	CN1001	50 DIGITAL Assy	11 (XDRIVE)	—
	CN1205	POWER SUPPLY Unit (ADR system power)	—	White (left half of the screen)
	CN1204	POWER SUPPLY Unit (drive system power)	12 (X-SUS)	—
	CN1206	50 ADDRESS Assy	8 (ADR)	—
50Y DRIVE Assy	CN2001	50 DIGITAL Assy	3 (SCAN)	—
	CN2204	POWER SUPPLY Unit (drive system power)	3 (SCAN)	—
	CN2206	POWER SUPPLY Unit (ADR system power)	—	White (right half of the screen)
	CN2205	50 ADDRESS Assy	8 (ADR)	—
	CN2601	50 SCAN A, B Assy	4 (SCN-5V)	—
50 SCAN A, B Assy	CN2801	50Y DRIVE Assy	4 (SCN-5V)	—
50 ADDRESS Assy	CN1602, CN1802	50 DIGITAL Assy	8 (ADRS)	—
	CN1601, CN1801	50X DRIVE Assy, 50Y DRIVE Assy	8 (ADRS)	—

Shut Down (Blinking in Blue)



PDP427CMX, PDP507CMX, PDP607CMX

Frequency of LED Flashing	Major Type	Detailed Type	Log Indication in Factory Mode		Checkpoint	Possible Defective Part	Remarks
			MAIN	SUB			
1	Abnormality in the Sequence Processor	Communication error	SQ-IC	RTRY	CLK_SQ/TXD_SQ, etc.	IC3151, IC3401	SQ_IC communication not established
		Drive stop		SQNO	Check if the video sync signal is input to IC3401.	CN3001, IC3401	If the signal detection by the module microcomputer is properly performed, the unit operates on an external sync.
		Busy		BUSY	BUSY_SQ	IC3401	If BUSY_SQ remains high, a shutdown is generated.
		Incoherent version (hardware, software)		VER-HS	Check the model number of the DIGITAL Assy and the destination of the SEQ-	IC3301, IC3401	The written SQ_PROG is incoherent with data on the DIGITAL Assy.
2	Failure in IIC communication with the module microcomputer	DIGITAL Assy EEPROM	MD-IIC	EEPROM	IIC communication line of IC3156	IC3151, IC3156	Check the pull-up resistor of the IIC control line and the power to the corresponding IC.
		PANEL SENSOR EEPROM		BACKUP	IIC communication line of IC3652	IC3151, IC3652	Check the pull-up resistor of the IIC control line and the power to the corresponding IC.
		DAC		DAC	IIC communication line of IC3157	IC3151, IC3157	Check the pull-up resistor of the IIC control line and the power to the corresponding IC.
3	Abnormality in RST2 power decrease	—	RST2	—	Is the output voltage of the DC-DC converter low? The 12 V power is not output.	AXY1137 POWER SUPPLY Unit (AXY1135)	If RST2 does not become high after the unit is turned on, a shutdown will be generated in several seconds. Check if V + 12 V is started.
4	High temperature of the panel	—	TMP_NG	TEMP1	Ambient temperature Abnormality in the panel temperature sensor	— AWW1116 (IC3901)	If TEMP1 that is read by the module microcomputer is 75°C or higher, a shutdown will be generated. Check the connection with the SENSOR Assy.
5	Short-circuiting of the speakers	—	—	—	AMP IC	IC3002	AMP IC in failure Note: Check the connections of the speakers. A wrong usage of speakers by customers, such as extended time of short-circuiting of the speaker outputs or use of speakers with impedance of 6 ohms or less, may have caused a failure in the AMP IC.
6	Failure in communication with the module microcomputer	—	—	—	MODULE UCOM BLOCK	IC3151	Failure in communication with the module microcomputer or the defective surrounding circuitry is suspected. Check if the communication line (TXD0/RXD0) is short-circuited or open.
		—	—	—	MODULE UCOM BLOCK	IC3151	Failure in writing in the module microcomputer
		—	—	—	AD2 connector	—	Check if cables are firmly connected.
7	Not used	—	—	—	—	—	—
8	Failure in IIC communication with the main microcomputer	Temperature sensor	—	—	Temperature sensor	—	The temperature sensors do not operate properly. Check if the cables from the three temperature sensors are properly connected.
		MAIN	—	—	Failure in communication with the EEPROM	IC9508	Communication with the EEPROM that backs up the latest settings of the main microcomputer failed. Possible causes are disconnection of the IIC line (SCL Pin 6, SDA Pin 5), short-circuit, or defective IC.
		VIDEO SLOT	—	—	Failure in communication with the VIDEO SLOT IC1 (CVBS)	IC6255	Communication with the video decoder that is mounted in the video slot failed. Possible causes are disconnection of the IIC line (SCL Pin 37, SDA Pin 36), short-circuit, or defective IC.
		VIDEO SLOT	—	—	Failure in communication with the VIDEO SLOT IC1 (Y/C)	IC6107	
		MAIN	—	—	Failure in communication with the A/D Main (A system)	IC6501	Communication with the A/D converter failed. Possible causes are disconnection of the IIC line (SCL Pin 119, SDA Pin 118), short-circuit, or defective IC.
		MAIN	—	—	Failure in communication with the A/D Sub (B system)	IC6701	
		MAIN	—	—	Failure in communication with the IC6	IC6301	Communication with the RGB signal switch failed. Possible causes are disconnection of the IIC line (SCL Pin 166, SDA Pin 165), short-circuit, or defective IC.
		VIDEO SLOT	—	—	Failure in communication with the VIDEO SLOT EEPROM	IC6257	Communication with the EEPROM that is mounted in the video slot failed. Possible causes are disconnection of the IIC line (SCL Pin 6, SDA Pin 5), short-circuit, or defective IC.
		AUDIO	—	—	Failure in communication with the AUDIO CONTROL IC	IC3001	Communication with the audio control IC failed. Possible causes are disconnection of the IIC line (SCL Pin 18, SDA Pin 17), short-circuit, or defective IC.
		MAIN	—	—	Failure in communication with the extension I/O	IC5304	Communication with the extension I/O failed. Possible causes are disconnection of the IIC line (SCL Pin 22, SDA Pin 23), short-circuit, or defective IC.
9	Not used	—	—	—	—	—	—
10	Abnormality in the fan	—	—	—	FAN	FAN or MAIN Assy or DD Assy	The fan is in failure. First check if a foreign object is caught in the fan. Then check if the FAN cable is properly connected.
11	Abnormality in temperature	—	—	—	—	—	The temperature of the unit or the ambient temperature may be abnormally high.
12	Not used	—	—	—	—	—	—
13	Abnormality in the power supply voltage	—	—	—	—	—	As it is very difficult to identify the defective part, replacement of the Assy or the power unit is required.
14	Not used	—	—	—	—	—	—
15	VCC-DOWN1 detection VCC-DOWN2 detection	VIDEO SLOT COMM SLOT	—	—	12 V circuit is in failure 13.5 V and 6.5 V circuits are in failure	—	—

Models

PDP4280HD

PDP5080HD

Block Diagrams

Quick Reference

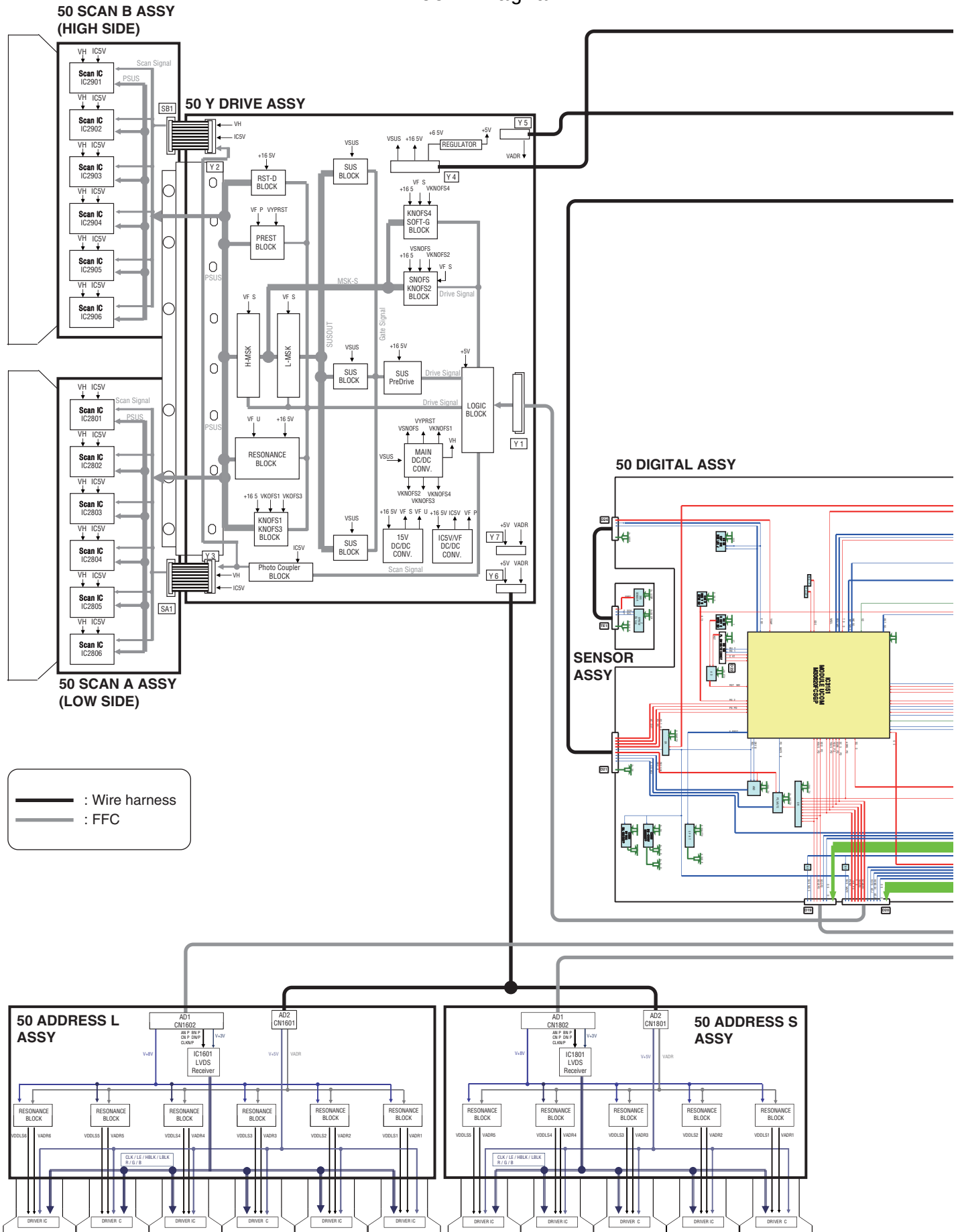
Basic Service Mode

Operation LED Statuses

Shut-Down & Power-Down Diagnosis

PDP4280HD, PDP5080HD

Block Diagram





Quick Reference upon Service Visit ①

Notes, PD/SD diagnosis, and methods for various settings

Notes when visiting for service

1. Notes when disassembling/reassembling

① Rear case

When reassembling the rear case, the screws must be tightened in a specific order. Be careful not to tighten them in the wrong order forcibly. For details, see "Rear Case" in "7. DISASSEMBLY".

② Attaching screws for the HDMI connector

When attaching the HDMI connector after replacing the Main Assy, secure the HDMI connector manually with a screwdriver, but not with an electric screwdriver. If you tighten the screws too tightly with an electric screwdriver, the screw heads may be damaged, in which case the screws cannot be untightened/tightened any more.

2. On parts replacement

① How to discharge before replacing the Assys

A charge of significant voltage remains in the Plasma Panel even after the power is turned off. Safely discharge the panel before replacement of parts, in either manner indicated below:

A: Let the panel sit at least for 3 minutes after the power is turned off.
B: Turn the Large Signal System off before the power is turned off then, after 1 minute, turn the power off.

For details, see "5.6.1 PANEL DRIVE POWER ON/OFF FUNCTION".

② On the settings after replacement of the Assys

Some boards need settings made after replacement of the Assys. For details, see "8. EACH SETTING AND ADJUSTMENT".

3. On various settings

① Setting in Factory mode

After a Mask indication into the panel is performed, be sure to set the Mask setting to "OFF" then exit Factory mode.

PD/SD		No. of LEDs flashing		LED Display Information
Item		Red	Blue	
Panel section	SQ_LSI		Blue 1	① TRAP SW 
	Communication with the module IIC		Blue 2	② Rewriting software 
	DIGITAL-RST2		Blue 3	③ PD (2-15) 
	Panel high temperature		Blue 4	④ SD (1-15) 
MTB section	Audio/ Short-circuit SP terminal		Blue 5	⑤ No backup 
	Communication with the Module UCOM		Blue 6	This indication does not display all LED patterns. For details, please refer to 5.1.1 LED DISPLAY INFORMATION.
	Main 3-wire serial communication		Blue 7	
	Main IIC communication		Blue 8	
	Communication with the Main UCOM		Blue 9	
	FAN		Blue 10	
	Unit high temperature		Blue 11	
	Digital Tuner communication		Blue 12	
	MTB-RST2/RST4		Blue 13	
	Home Media Gallery		Blue 14	
	Main EEPROM		Blue 15	
POWER		Red 2		How to enter the Factory Mode by Remote control. ① Turn off the TV Guide feature ② Set unit to Standby Mode ③ Press and release the DISPLAY Button ④ Wait 4 seconds ⑤ LEFT Button (←) ⑥ UP Button (↑) ⑦ LEFT Button (←) - Within 5 seconds ⑧ RIGHT Button (→) ⑧ POWER Button
SCAN		Red 3		
SCN-5V		Red 4		
Y-DRIVE		Red 5		
Y-DCDC		Red 6		
Y-SUS		Red 7		
ADRS		Red 8		
X-DRIVE		Red 9		
X-DCDC		Red 10		
X-SUS		Red 11		
DIG-DCDC		Red 12		
UNKNOWN		Red 15		

How to locate several items on the Factory menu

- { } : Item on the Factory menu
- [] : Key on the remote control unit
- " " : Screen indication

1. Confirmation of accumulated power-on time and power-on count

Select {INFORMATION} then {HOUR METER}.
(After entering Factory mode, press [↓] five times.)

2. Confirmation of the Power-down and Shutdown histories

① Panel system

PD: Select {PANEL FACTORY} then {POWER DOWN}.
(After entering Factory mode, press [MUTING] once, press [ENTER/SET], then press [↓] three times.)

SD: Select {PANEL FACTORY} then {SHUT DOWN}.
(After entering Factory mode, press [MUTING] once, press [ENTER/SET], then press [↓] four times.)

② MTB section

Select {INFORMATION} then {MAIN NG}.
(After entering Factory mode, press [↓] three times.)

3. How to display the Mask indication

① Mask indication in the panel side

- Select {PANEL FACTORY} then {RASTER MASK SETUP}.
(After entering Factory mode, press [MUTING] once, press [ENTER/SET], then press [↓] 8 times.)
- Press [ENTER/SET], then select a Mask indication, using [↑] or [↓].

Adjustments and Settings after replacement of the Assys (Procedures in Factory mode)

1. Digital Video Assy: Transfer of backup data

- Select {PANEL FACTORY}, {ETC}, then {BACKUP DATA}. (After entering Factory mode, press [MUTING] once, press [ENTER/SET], press [↓] seven times, then press [ENTER/SET].)
- Select {TRANSFER}, using [→], then hold [ENTER/SET] pressed for at least 5 seconds.
- After transfer of backup data is completed, {ETC} is automatically selected, and the LED on the front panel returns to normal lighting.

2. MAIN Assy: Execution of FINAL SETUP.

- Select {INITIALIZE} then {FINAL SETUP}, then press [ENTER/SET]. (After entering Factory mode, press [MUTING] three times, then press [↓] four times.)
- Select "YES", using [→]. Then hold [ENTER/SET] pressed for at least 5 seconds.
- After "FINAL SETUP IS COMPLETE" is displayed on the screen, turn the POWER switch of the main unit off.

3. POWER SUPPLY Unit: Clearance of the accumulated power on count and maximum temperature value

- Select {PANEL FACTORY}, {ETC}, then {P COUNT INFO}. (After entering Factory mode, press [MUTING] once, press [ENTER/SET], press [↓] seven times, press [ENTER/SET], then press [↓] six times.)
- Press [→] to select "CLEAR". Hold [ENTER/SET] pressed for at least 5 seconds. After clearance is completed, "ETC" is automatically selected. Clear the maximum temperature value (MAX TEMP) in the same manner.

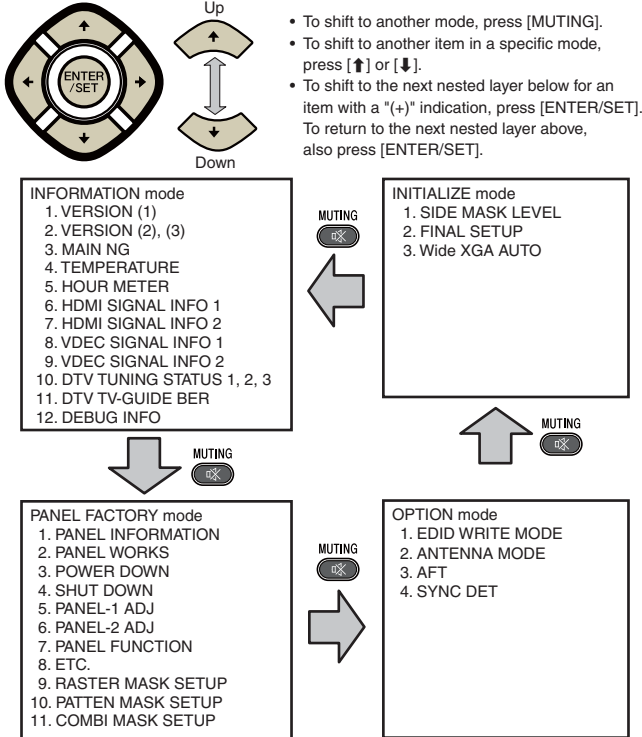
4. Other Assys: Clearance of the maximum temperature value

- Select {PANEL FACTORY}, {ETC}, then {MAX TEMP}. (After entering Factory mode, press [MUTING] once, press [ENTER], press [↓] seven times, press [ENTER/SET], then press [↓] seven times.)
- Press [→] to select "CLEAR". Hold [ENTER/SET] pressed for at least 5 seconds. After clearance is completed, "ETC" is automatically selected.

Quick Reference upon Service Visit ②

Mode transition and structure of layers in Service Factory mode

Mode transition in Service Factory mode



Structure of Layers in Service Factory Mode

INFORMATION mode	
1. VERSION (1)	The software versions for each microcomputer
2. VERSION (2)	The Flash memory versions for each device
3. VERSION (3)	The Flash memory versions for each device
4. MAIN NG	The shutdown message ID/event times (Going Clear mode by [ENTER/SET] key)
4-1. CLEAR	Select Yes by [→] key → pushing and hold [ENTER/SET] key
5. TEMPERATURE	The temperature/FAN rotating status/Room Light Sensor
6. HOUR METER	The HOUR METER/P-COUNT information
6-1. CLEAR	Select Yes by [→] key → pushing and hold [ENTER/SET] key
7. HDMI SIGNAL INFO 1	The information of HDMI information files
8. HDMI SIGNAL INFO 2	The information of HDMI information files
9. VDEC SIGNAL INFO 1	The signal information of VDEC
10. VDEC SIGNAL INFO 2	The signal information of VDEC
11. DTV TUNING STATUS 1	Detail information for DTV
12. DTV TUNING STATUS 2	Detail information for DTV
13. DTV TUNING STATUS 3	Detail information for DTV
14. DTV TV-GUIDE BER	For production line use
15. DEBUG INFO	For factory use
PANEL FACTORY mode	Refer to [PANEL FACTORY MODE]
OPTION mode	
1. EDID WRITE MODE	For factory use
2. ANTENNA MODE	For production line use
3. AFT	For production line use
4. SYNC DET	For technical analysis
INITIALIZE mode	
1. SIDE MASK LEVEL	For factory use
1-1. SIDE MASK LEVEL	
2. FINAL SETUP	Set to Factory default settings (it should perform after replacing a MAIN Assy)
2-1. DATA RESET	Information for a USB device is displayed
3. HMG/HG SERVICE MODE	
3-1. MODE SHIFT	
4. Wide XGA AUTO	For technical analysis

Structure of Layers in Panel Factory Mode 1

1. PANEL INFORMATION	Version indication of the panel
2. PANEL WORKS	Indications of the accumulated power-on time, pulse-meter count, and power-on count of the panel
3. POWER DOWN	Indication of the Power-down history
4. SHUT DOWN	Indication of the Shutdown history
5. PANEL-1 ADJ (+)	
1. VOL SUS	Settings required after replacement of the panel
2. VOL OFFSET	
.....	
8. VOL YNOFS4	
9. RESET1ST_KSB	Modification not required because these items are basically for factory presetting
10. RESET2ND_KSB	
.....	
23. YSTL_FMR_HZ	
24. SUS FREQ	For AM noise prevention (Depending on the mode, brightness of the screen changes.) For confirmation of the result of the setting change, the unit must be turned off then back on again.
6. PANEL-2 ADJ (+)	
1. R-HIGH	Parameters for the WB adjustment of the panel, which are required during adjustment after panel replacement
2. G-HIGH	
3. B-HIGH	
4. R-LOW	
5. G-LOW	
6. B-LOW	
7. ABL	Setting of the power consumption. A setting table is available for each vertical signal.

To "Structure of Layers in Panel Factory Mode 2"

Structure of Layers in Panel Factory Mode 2

7. PANEL FUNCTION (+)	
1. R-LEVEL	Items for use by engineers
2. G-LEVEL	
3. B-LEVEL	
4. ADDRESS L1	
5. ADDRESS L2	
.....	
11. ADDRESS U4	
12. STK MODE	
8. ETC (+)	
1. BACKUP DATA	For transferring backup data (after replacement of the DIGITAL Assy)
2. DIGITAL EEPROM	To clear data of the digital video
3. PD INFO.	For clearance of data for the corresponding items. The clearing method is the same: Select "CLEAR", using [→], then hold [ENTER/SET] pressed for at least 5 seconds. After clearance is completed, (ETC) is automatically selected.
4. SD INFO.	
5. HR-MTR INFO.	
6. PM/B1-B5	
7. P COUNT INFO.	
8. MAX TEMP.	
9. RASTER MASK SETUP (+)	
1. MASK OFF	For use while Raster Mask (full mask) is displayed. Use [↑] or [↓] to select the type of mask.
2. RST MASK 01	
.....	
26. RST MASK 25	
10. PATTEN MASK SETUP (+)	
1. MASK OFF	For use while Pattern Mask is displayed. Use [↑] or [↓] to select the type of mask.
2. PTN MASK 01	
.....	
50. PTN MASK 49	
11. COMBI MASK SETUP (+)	
1. MASK OFF	For use while Combination Mask is displayed. Use [↑] or [↓] to select the type of mask.
2. CMB MASK 01	
.....	
18. CMB MASK 17	

LED Pattern

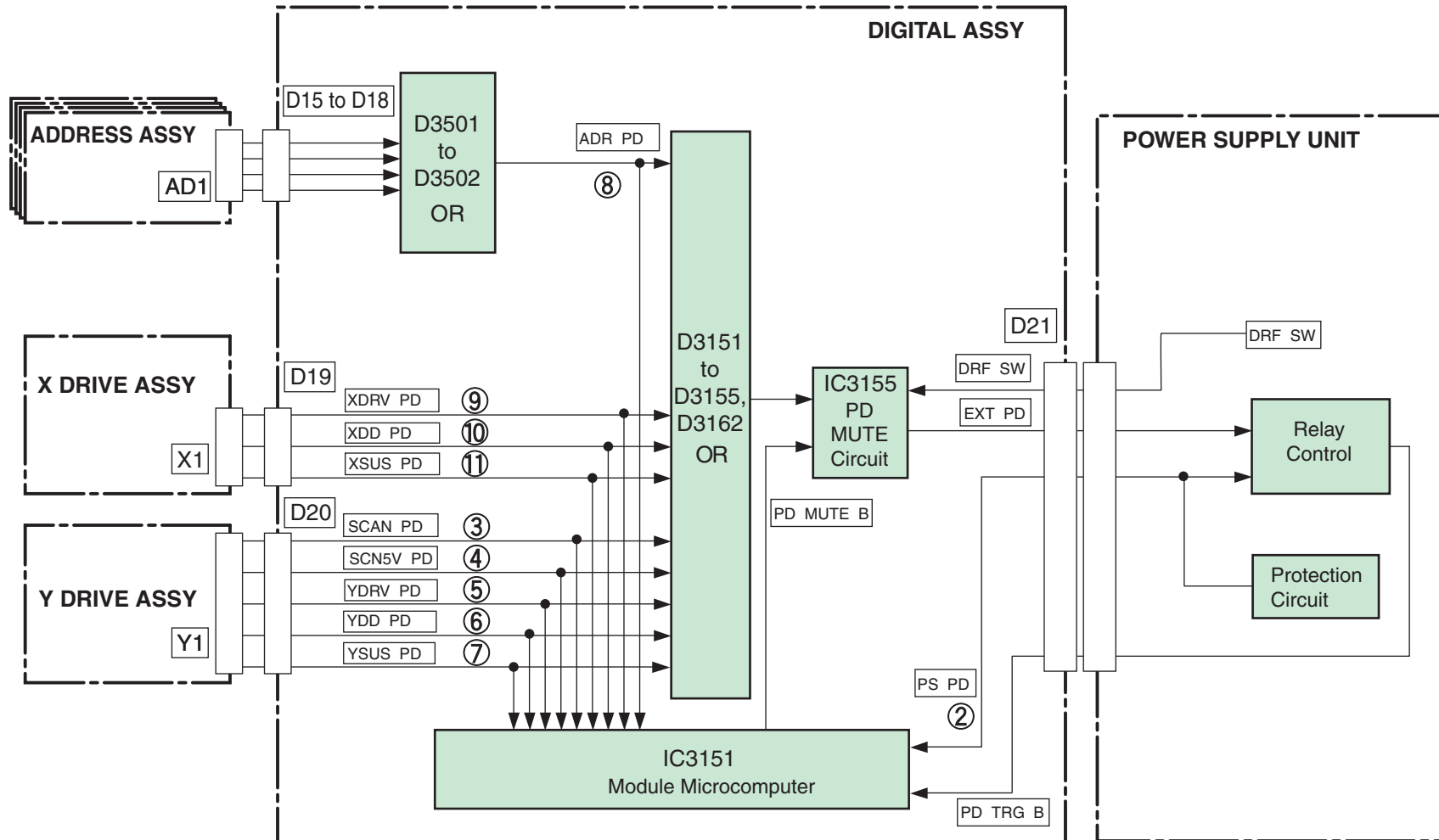


State	LED Pattern	Remarks
AC OFF or Main power switch OFF		
Standby power management		
Power ON (Screen ON)		
Power-down		
Shutdown		
No digital adjustment data copied for backup		The LEDs flash only while the panel is turned on.
In the process of rewriting the program of the microcomputer		
During factory operation		
Trap switch		
During DTV Module software downloading		
Downloading of DTV Module software is finished normally.		
Downloading of DTV Module software is abnormally finished.		
Sleep timer		

Power Down (Blinking in Red)

Note:

The figures ② to ⑪ indicate the number of times the LED flashes when power-down occurs in the corresponding route.



PDP4280HD, PDP5080HD

PDP4280HD, PDP5080HD

Prediction of failure symptoms when a PD (power-down) is generated

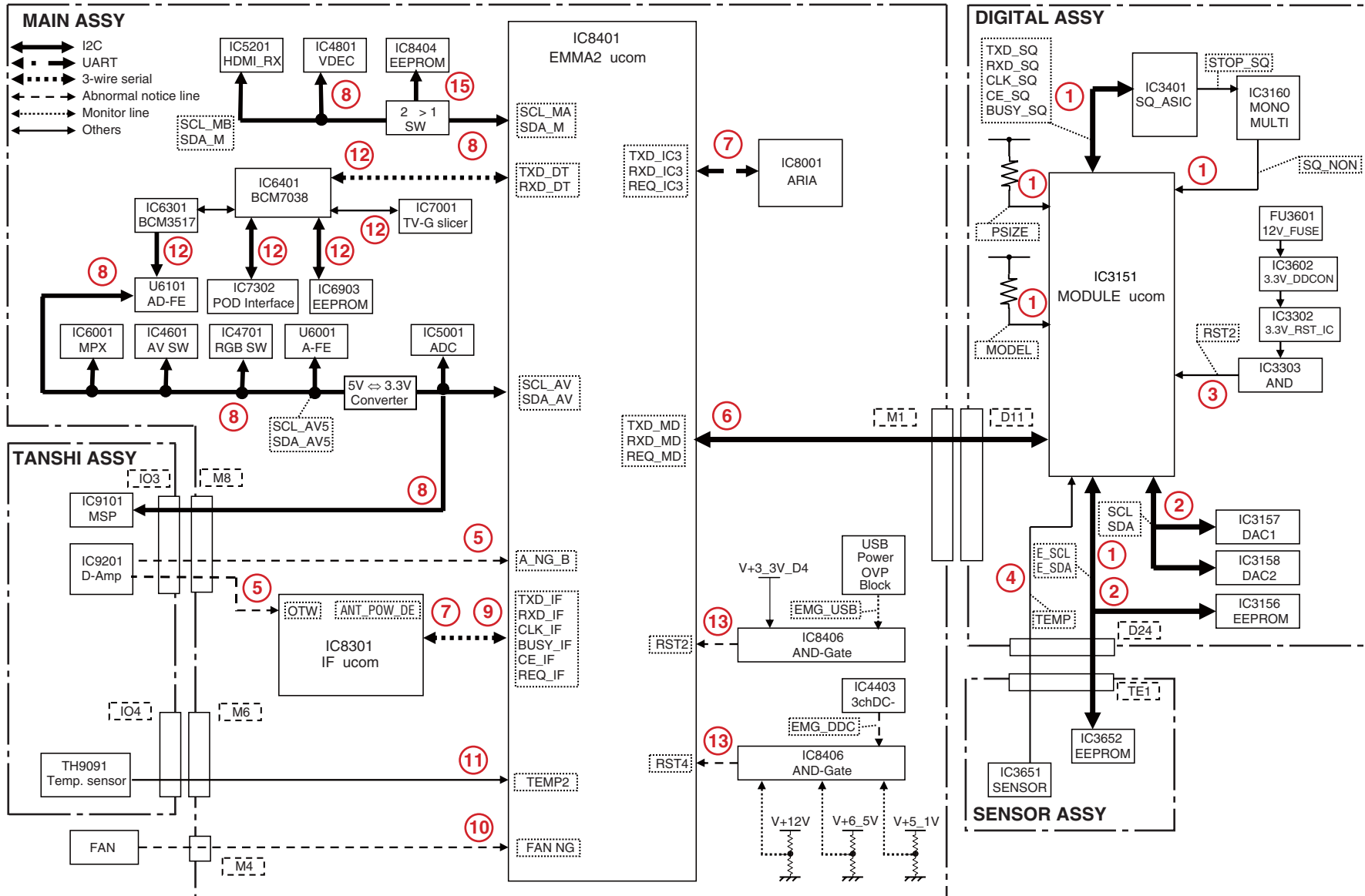
Red LED Flashing Count	Operating PD	Defective Assy	PD Outline	Checkpoint	Possible Defective Part	Remarks
2	POWER	POWER SUPPLY Unit	Failure in the POWER SUPPLY Unit			
		X DRIVE Assy	VSUS UVP	X SUS BLOCK	Q1219,Q1220,Q1221, Q1222,Q1223,Q1224,Q1201	VSUS-PSUS and SUSOUT-SUSGND are short-circuited.
		Y DRIVE Assy		Y SUS BLOCK	Q2217,Q2218,Q2219, Q2221,Q2222,Q2223	VSUS-SUSOUT and SUSOUT-SUSGND are short-circuited.
3	SCAN	SCAN Assy	VH UVP	SCAN IC	SCAN IC	
		X DRIVE Assy		X SUS BLOCK	Q1219,Q1220,Q1221, Q1222,Q1223,Q1224,Q1201	VSUS-PSUS and SUSOUT-SUSGND are short-circuited.
		Y DRIVE Assy		Y SUS BLOCK	Q2217,Q2218,Q2219, Q2221,Q2222,Q2223	VSUS-SUSOUT and SUSOUT-SUSGND are short-circuited.
				VH DC/DC converter	IC2601,D2604	
		DIGITAL Assy	Connectors disconnection detection	CN2001,CN2301 CN3506		
4	SCN-5V	SCAN Assy	IC5V UVP	SCAN IC		
		Y DRIVE Assy	Connectors disconnection detection	IC5V DC/DC CN2501,CN2502	Q2554,D2558	
5	Y-DCDC	Y DRIVE Assy	Connectors disconnection detection	CN2001		
		DIGITAL Assy		CN3506		
6	Y-DCDC	Y DRIVE Assy	VNOFS UVP	Y MSK BLOCK	Q2320,Q2321,Q2322,Q2323, Q2324,Q2325,Q2330,Q2332, Q2334	LMSK is short-circuited.
				VNOFS DC/DC	D2606,Q2710,Q2711	
			Vprst UVP	YPRST Regulator	D2602,Q2604,R2610	
			15VDD UVP	15VDC/DC	Q2572	
			VKOFS1_2 UVP	Y MSK BLOCK	Q2320,Q2321,Q2322,Q2323, Q2324,Q2325,Q2330,Q2332, Q2334	LMSK is short-circuited.
				VKOFS1_2 Regulator	Q2705,Q2702	
			VKOFS3 UVP	Y MSK BLOCK	Q2320,Q2321,Q2322,Q2323, Q2324,Q2325,Q2330,Q2332, Q2334	LMSK is short-circuited.
				VKOFS3 Regulator	Q2706,Q2703	
			VKOFS4 UVP	Y MSK BLOCK	Q2320,Q2321,Q2322,Q2323, Q2324,Q2325,Q2330,Q2332, Q2334	LMSK is short-circuited.
				VKOFS4 Regulator	Q2707,Q2704	
7	Y-SUS	Y DRIVE Assy	Center electric potential detection PD	Y RESONANCE BLOCK	Q2106,Q2107,Q2108,Q2110,Q2112, D2104,D2105,D2108,D2109	
8	ADRS	ADDRESS Assy	Vadr LVP	ADDRESS RESONACE BLOCK	IC1651 to IC1656, IC1851 to IC1855	Vadr is short-circuited (TCP,etc.). Each TCP unit.
					Q1731,Q1741,Q1751,Q1761,Q1771,Q1781,Q1931,Q1941,Q1951, Q1961,Q1971,Q1731,D1741,D1751,D1761,D1771,D1781,D1931, D1941,D1951,D1961,D1971,R1714 to R1719,R1914 to R1918)	Between ADR_B and Vadr is short- circuited. Each resonance block unit.
					C1711,C1911,(R1714 to R1719,R1914 to R1918,R1735,R1745,R1755, R1765,R1775,R1785,R1935,R1945,R1955,R1965,R1975,D1731,D1741, D1751,D1761,D1771,D1781,D1931,D1941,D1951,D1961,D1971)	ADR_B capacitor is short-circuited.
		DIGITAL Assy	Connectors disconnection detection	CN1601, CN1602, CN1801, CN1802		
				CN3501 to CN3504		
				CN1202,CN1203		
X DRIVE Assy		CN2302,CN2303,CN2304				
9	XDRIVE	X DRIVE Assy	Connectors disconnection detection	CN1001		
		DIGITAL Assy		CN3505		
10	X-DCDC	X DRIVE Assy	Connectors disconnection detection	CN1201		
			15VDD UVP	X SUS BLOCK	L1201,R1217	
				15VDC/DC	Q1402	
			VXKOFs1 UVP	VXKOFs1 Regulator	Q1403,Q1404,IC1401	
				X OFFSET BLOCK	Q1301,Q1303	
			VXKOFs2 UVP	VXKOFs2 Regulator	Q1405,Q1406,IC1402	
X OFFSET BLOCK	Q1302,Q1304					
11	X-SUS	X DRIVE Assy	Center electric potential detection PD	X RESONANCE BLOCK	Q1108,Q1109,Q1110,Q1112, D1106,D1107,D1110,D1111	

UVP: Under Voltage Protect , OVP: Over Voltage Protect

Shut Down (Blinking in Blue)

PDP4280HD, PDP5080HD

Note : The figures ① to ⑮ indicate the number of times the LED flashes when shut-down occurs in the corresponding route.



Scan IC Troubleshooting

Blue Glue Removal

IC Removal

50 SCAN A ASSY
(ANP2042-B)



If scan board is disconnected, be sure to isolate buss bar also. Discharge all scan board connections including buss before reconnecting.

Unplug power connector from X or Y drive. Perform diode check with DVM from V_{sus} to ground. Should check as a diode. If Y drive shorted, next unplug Scan PCBs. If short goes away, check Scan ICs. If still shorted, replace drive.

With Scan PCB unplugged, perform diode check from Vh to Psus (buss bar). Should check as a diode. If shorted, check resistance from Vh and Gndh (buss bar) to HVxxx (each IC has 2 test pads). Should measure 3 to 5 meg ohm (varies by DVM). Remove IC (see SK-D04003) that measures different from others and recheck. If all check the same, but Vh is still shorted, you must check all 64 HV pins of each IC. Remove side rail and 32 feed throughs are accessible near the panel connection. If nothing shows up, loosen Scan PCB and flip over to access all 64 connections.

SERVICE KNOWHOW

Date: Sep.14, 2004

No.: SKD04003

(1/3)

MODEL No.

See to following page

MODEL No.

SUBJECT 1 How to remove the coating of SCAN IC.

[Required equipment]

tweezers (Curved Tip Tweezers are better than stright ones.)
cutting pliers

[Procedure]

1. Peel the coating a little at the place of lower left corner of SCAN IC which has rather more coating.
(Please be careful not to damage the pattern.)



2. Make a notch at the peeled coating.



PIONEER CORPORATION

K.MATSUMURA ,MANAGER
DP

Technical Support Group
Service Support Division

Memo:

SY61

Classify:

3. Pick up the peeled coating by tweezers, and wind them around the point of the tweezers while rotating tweezers.



4. Peel off the coating while rotating tweezers along the SCAN IC.



5. All the coating around SCAN IC is peeled off, the work is end.

If you rotate tweezers as close as SCAN IC, the work goes well.

How to replace the SCAN ICs

There are two possibilities:

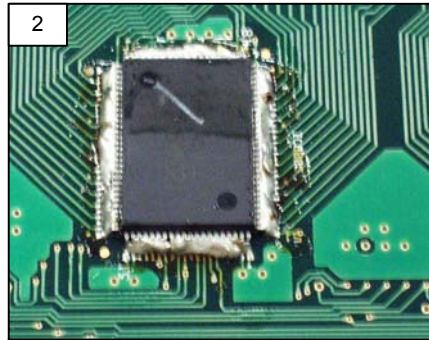
- with a nozzle type soldering station
- with the CHIPQUICK SMD1 removal kit

Work ESD safe

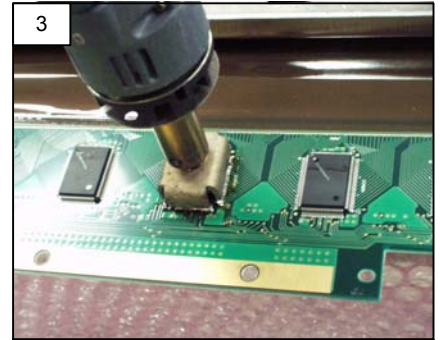
With nozzle type desoldering station



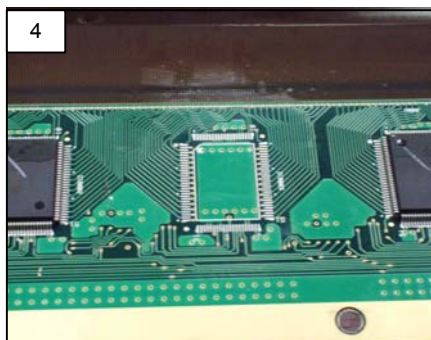
Mount the right type
of nozzle



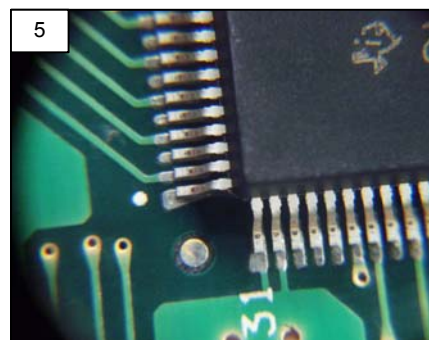
Add solder to all pins
of the defective SCAN IC



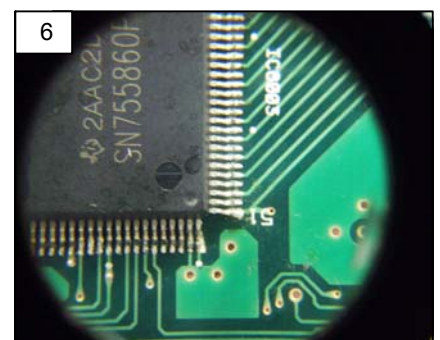
Heat up all pins with
the nozzle. When solder reflows
remove IC with pick up tool



Remove IC and clean PCB.
Check PCB for damaged
patterns and short-circuits.



Once the IC is positioned,
tip it diagonal so it cannot
move anymore
(Solder two opposite corners)

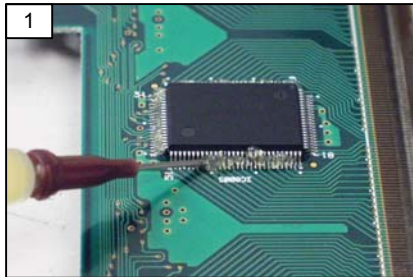


Solder all pins and check
very carefully for dry joints
or short circuits

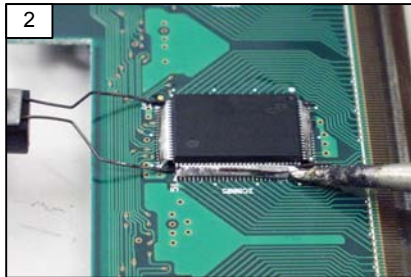
With Chipquick

Another way to remove SMDs is with a special solder made by Chip Quik. The solder is an alloy of tin, lead, indium, and bismuth. Bismuth has a very low thermal conductivity. If it is mixed with tin, the melting point is reduced to 65°C. and so it becomes difficult to damage the PCB. Another advantage is that there is no additional desolder equipment required.

It can be ordered with part number SMD1. This package contains chipquick flux, chipquick solder and alcohol pads.



Apply flux to all pins of the defective SCAN IC



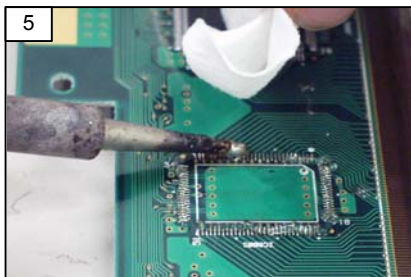
Adjust the temperature of the solder iron to +/- 200°C and melt CHIPQUICK alloy uniformly on all pins.



Maintain the alloy in molten state and remove the SCAN IC with a pick - up tool.



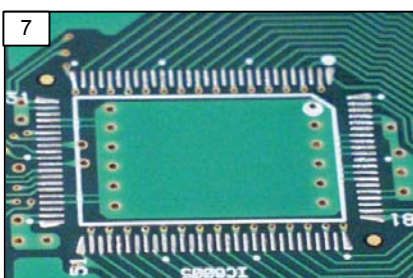
Move the excess with the solder iron to an unused section of the PCB. Remove after it's cooled down.



Clean site with swab dipped in flux while applying heat.



At room temperature, clean the residue with alcohol pad.



PCB is ready to mount the new SCAN IC.

Parts List

G3 to G8

Note: This is a basic field use parts list. Always check with Pioneer Parts Department to ensure correct part numbers.

3rd generation 43" PLASMA Quick Reference Chart

	PDP-433CMX PRO800HD	PDP-4300	PRO800HDI	PDP-433PU
Power Supply Module	(2) AXY1056 or (7) 59 (7) AXX1064 (2201-15940) (7) must check	(7) AXY1059 ➡ (0-3480)	(7) AXY1059 ➡ must check	(2) AXY1056 or (7) 59 ➡ (2761-10130)
(3) New Scan IC S/N	5011	ALL	ALL	3811
Service Panel Assy	(2,3) AWU1069	AWU1069	AWU1069	(2,3) AWU1069
Digital Video Assy	(3) AWV1941, 80 or 71	AWV1971	AWV2071	(3) AWV1929, 41, 80 or 71
Y Drive Assy	(4) AWZ6683 or 6748	AWZ6748	➡	(4) AWZ6683, 6708 or 49
X Drive Assy.	(4) AWV1930 or 85	AWV1985	➡	(4) AWV1930 or 85
(ADR)Resonance Assy	(6) AWZ6682 or 6751	AWZ6751	➡	(6) AWZ6682 or 6751
Sub Address A Assy	AWZ6692	AWZ6692	➡	➡
Sub Address B Assy	AWZ6693	AWZ6693	➡	➡
RGB Assy	AWZ6697 AWZ6744 (after # 4721)	AWZ6744	AWZ6837	N/A
I/O Assy	AWZ6631	AWZ6631	AWZ6801	N/A
MR Interface Assy	N/A	N/A	N/A	AWZ6699* (1637)
Audio Amp Assy	N/A	N/A	N/A	AWZ6687
MX Audio Assy	AWZ6644	AWZ6644	➡	N/A
FAN Motor	AXM1040	AXM1040	➡	N/A
Thermal Sensor Assy	AWZ6639, 96	AWZ6696	➡	AWZ6660
(MX) LED Assy	AWZ6642	AWZ6642	➡	AWZ6655
Control Assy	AWZ6633	AWZ6633	➡	N/A
IR Assy	AWZ6643	AWZ6643	➡	AWZ6658
(Side/Front) Key Assy	AWZ6637	AWZ6637	➡	AWZ6656
Key Connector Assy	AWZ6695	AWZ6695	➡	AWZ6657
Video Card	AWV1906/07**	AWV1907	AWV2064	N/A
Slot Connector Assy	AWZ6634	AWZ6634	➡	N/A
Front Case Assy	AMB2712	AMB2762	AMB2809	AMB2725
Hex Hole Bolt	SMZ80H400FZB	N/A	N/A	N/A
AC cord	ADG1178	➡	ADG1208	➡
Protect Panel Assy	AMR3303	AMR3303	➡	➡
Display Stand	AMR3264	N/A	➡	PDK-TS01
Remote Control	AXD1459/66	AXD1466	AXD1459	RRMCG1679CESA
System Cable (PDP-R03U)	N/A	N/A	N/A	QCNW-6117CEZZ
Power Cord (PDP-R03U)	N/A	N/A	N/A	QACCD A007WJPZ
Service Manual	ARP3123/3127 & 3155	ARP3155/62***	ARP3186	ARP3111 & 3143
Owner's Manual	ARD1049, 52/ARB1548	ARB1551	ARB1560	TINS-7552CEZZ

(2) See bulletin SI-D03016A & 03026. AXY1059 replaces all, but must adjust if replacing old supply. Also adjust if panel replaced.

(3) See bulletin SI-D03025C. Use existing Dvid. Must use new with service panel. Scan lcs changed, SN755860PJ to SN755864APZP.

(4) See bulletin SI-D03041A. Use existing X or Y. If old to new must adjust.

(5) See bulletin SI-D03003. Use existing Addr. Reso & Sub Addr. If old to new, replace both.

(6) See bulletin SI-D03033. Improved caps and added insulator.

(7) See bulletin SI-D04048A, SI-PG04007. Mandatory upgrade (serial range where needed). Orange dot by serial # indicates already done. AXX1064 is AXY1059-H. AXY1059-A thru G need replacing.

* See bulletin SI-D03004. Old part# was AWZ6654. Will need (2) screws PMZ26P080FZK for new board.

** AWV1907 for PRO & 4300. Will need Torx Driver #T10H to remove from PRO.

***ARP3162 has AWV1907 schematic.

3rd generation 50" PLASMA Quick Reference Chart

	PDP-503CMX PRO1000HD	PRO1000HDI	PDP-503PU
Power Supply Module	(1,2) AXY1053, 55 or 59 (7) AXX1064 (8541-35690) (7) must check	AXY1059 (7) AXX1064, must check	(1,2) AXY1053, 55 or 59 (7) AXX1064 (2431-12680)
(3) New Scan IC S/N	9991	ALL	3051
Service Panel Assy	(2,3) AWU1068 (8) AWU1110	AWU1068 (8) AWU1110	(2,3,9) AWU1068 (8,9) AWU1110
Digital Video Assy	(3) AWV1903 or 70,79	AWV2072	(3) AWV1903 or 70,79 (9) AWV2029
Y Drive Assy	(4) AWZ6645 or 6745	AWV6745	(4) AWZ6645, 6707 OR 46
X Drive Assy.	(4) AWV1901 or 84	AWV1984	(4) AWV1901 or 84
(ADR) Resonance Assy	(5, 6) AWZ6630, 91 or 6750	AWZ6750	(6) AWZ6691 or 6750
Sub Address A Assy	(5) AWZ6646 or 89	AWZ6689	AWZ6689
Sub Address B Assy	(5) AWZ6647 or 90	AWZ6690	AWZ6690
V Mid Clamp Assy	(1) AWV1934	N/A	(1) AWV1934
RGB Assy	AWZ6632 AWZ6744 (after # 10891)	AWZ6744	N/A
I/O Assy	AWZ6631	↗	N/A
MR Interface Assy	N/A	N/A	AWZ6699* (1621)
Audio Amp Assy	N/A	N/A	AWZ6687
MX Audio Assy	AWZ6644	↗	N/A
FAN Motor	AXM1040	↗	N/A
SP Out R Assy	AWZ6636, 6706	AWZ6706	N/A
SP Out L Assy	AWZ6635, 6705	AWZ6705	N/A
(MX) LED Assy	AWZ6642	↗	AWZ6655
Control Assy	AWZ6633	↗	N/A
IR Assy	AWZ6643	↗	AWZ6658
(Side/Front) Key Assy	AWZ6637	↗	AWZ6656
Key Connector Assy	AWZ6638, 6695	AWZ6695	AWZ6657
Thermal Sensor Assy	AWZ6639, 96	AWZ6696	AWZ6660
Video Card	AWV1906, 07**	AWV2064	N/A
Slot Connector Assy	AWZ6634	↗	N/A
Front Case Assy	AMB2698	AMB2805	AMB2722
AC cord	ADG1178, 1208	ADG1208	ADG1178, 1208
Protect Panel Assy	AMR3266, 3304	AMR3304	AMR3304
Display Stand	AMR3264, N/A	N/A	PDK-TS01
Remote Control	AXD1459, 66	AXD1459	RRMCG1679CESA
System Cable (PDP-R03U)	N/A	N/A	QCNCW-6117CEZZ
Power Cord (PDP-R03U)	N/A	N/A	QACCDAA007WJPZ
Service Manual	ARP3093/3101 & 3150	ARP3150/87	ARP3107 & 3141
Owner's Manual	ARD1042, 52/ARB1544	ARB1560	TINS-7552CEZZ

(1) See bulletin SI-D02012. Vmid moved to supply. If replacing AXY1053 with AXY1055 or 59, use exsisting Vmid.

(2) See bulletin SI-D03016A & 03026. AXY1059 replaces all, but must adjust if replacing old supply. Also adjust if panel replaced.

(3) See bulletin SI-D03025C. Use existing Dvid. Must use new with service panel. Scan lcs changed, SN755860PJ to SN755864APZP.

(4) See bulletin SI-D03041A. Use existing X or Y. If old to new must adjust.

(5) See bulletin SI-D03003. Use existing Addr. Reso & Sub Addr. If old to new, replace both.

(6) See bulletin SI-D03033. Improved caps and added insulator.

(7) See bulletin SI-D04048A, SI-PG04007. Mandatory upgrade (serial range where needed). Orange dot by serial # indicates already done. AXX1064 is AXY1059-H. AXY1059-A thru G need replacing.

(8) See bulletin SP-D04014. Must adjust Vofs when using AWU1110.

(9) If 1st number of serial is 2, special panel used. If replacing panel, also replace digital video.

* See bulletin SI-D03004. Old part# was AWZ6654. Will need (2) screws PMZ26P080FZK for new board.

** Will need Torx Driver #T10H to remove.

ARP3162 has AWV1907 schematic.

4th generation 2 piece PLASMA Quick Reference Chart

	PRO504PU	PDP504PU	PRO434PU	PDP434PU
Service Panel Assy	AWU1080, 1108 (1)	↗	AWU1079, 1109 (1)	↗
Scan IC	AN16003A	↗	SN755864APZP	↗
Power Supply Module	AXY1068	↗	↗	↗
Digital Video Assy	AWV2018, 70 or AWV2110	↗	↗	↗
Y Drive Assy	AWV2035, 68 AWV2144, 47	↗	AWV2022, 66	↗
X Drive Assy.	AWZ6808	↗	AWZ6794, 6840	↗
Panel IF Assy.	AWZ6768	↗	↗	↗
Audio Amp Assy	AWZ6834	↗	↗	↗
Panel Sensor Assy.	AWZ6795	↗	↗	↗
Panel LED Assy	AWZ6787	↗	↗	↗
Panel Key Assy	AWZ6788	↗	↗	↗
Key Control Assy	AWZ6789	↗	↗	↗
Panel IR Assy	AWZ6790	↗	↗	↗
HD SP Terminal	AWZ6792	↗	↗	↗
Front Case Assy	AMB2804	AMB2763	AMB2783	AMB2779
Hex Hole Bolt	SMZ80H400FZB	↗	↗	↗
AC cord	ADG1215	↗	↗	↗
Protect Panel Assy	AMR3348	AMR3385	AMR3345	AMR3383
Remote Control	AXD1484	AXD1478	AXD1484	AXD1478
System Cable (white/black)	ADF1021 or 7, 9	↗	↗	↗
Service Manual	ARP3176	↗	ARP3174	↗
Owner's Manual	ARB1556	ARE1367	ARB1556	ARE1367

(1) Adjustment varies depending on digital video. SI pending.

4th generation 43" PLASMA Quick Reference Chart

	PDP434CMX	PDP4304 PDP4314	PRO810HD	PRO810HD/1	PDP-434CMX/1	PDP4304/1 PDP4314/1
Service Panel Assy	AWU1094 AWU1109	AWU1109	☞	AWU1115	☞	☞
Scan IC	SN755864APZP	☞	☞	SN755866PZP	☞	☞
Power Supply Module	AXY1083	☞	☞	☞	☞	☞
Digital Video Assy	AWV2100 or 84***	AWV2100	☞	AWV2169	☞	☞
Y Drive Assy	AWV2022, 66	☞	☞	AWV2078	☞	☞
X Drive Assy.	AWZ6840	☞	☞	AWZ6865	☞	☞
AV I/O Assy	AWZ6894	AWZ6967 AWZ6971	AWZ6962	☞	AWZ6894	AWZ6967 AWZ6971
Audio Amp Assy	AWZ6848	☞	☞	☞	☞	☞
RGB Assy	AWZ6960	AWZ6961	☞	AWZ6993	AWZ6992	AWZ6993
FAN Motor	AXM1044	☞	☞	☞	☞	☞
Panel Sensor Assy.	AWZ6795	☞	☞	AWZ6872	☞	☞
LED OPT Assy	AWZ6957	AWZ6966	☞	☞	AWZ6957	AWZ6966
Side/Front Key Assy	AWZ6852	AWZ6970	AWZ6852	☞	☞	AWZ6970
Key Control Assy	AWZ6853	AWZ6969	AWZ6965	☞	AWZ6981	AWZ6969
IR Receive Assy	AWZ6855	☞	☞	☞	☞	☞
Comm Slot Assy	AWZ6849	AWZ6968	AWZ6963	☞	AWZ6849	AWZ6968
Comm Slot I/F	AWZ6850	AWZ6964	☞	☞	AWZ6980	AWZ6964
Video Card	AWV2097* AWV2098*	AWV2159**	AWV2158**	☞	AWV2097* AWV2098*	AWV2159**
Video Slot I/F Assy	AWZ6851	☞	☞	☞	☞	☞
Front Case Assy	AMB2790	AMB2846 AMB2847	AMB2845	☞	AMB2790	AMB2846 AMB2847
Hex Hole Bolt	☞	☞	☞	☞	☞	☞
AC cord	☞	☞	☞	☞	☞	☞
Protect Panel Assy	AMR3345	☞	☞	☞	☞	☞
Frame L	N/A	N/A	ANB1876	☞	N/A	N/A
Frame R	N/A	N/A	ANB1877	☞	N/A	N/A
Frame U	N/A	N/A	ANB1875	☞	N/A	N/A
Frame D	N/A	N/A	ANB1876	☞	N/A	N/A
Display Stand	AMR3264	N/A	N/A	N/A	AMR3264	N/A
Remote Control	AXD1486	AXD1496 AXD1497	AXD1496	☞	AXD1486	AXD1496 AXD1497
Service Manual	ARP3198	ARP3221	ARP3219	ARP3248	ARP3241	ARP3250
Owner's Manual	ARD1055	ARE1386	ARE1385	ARE1385	ARD1055	ARE1386

*Video Card PDA-5003 (AWV2097) and PDA-5004 (AWV2098)

**Will need Torx Driver #T10H to remove

***For panels with narrow margin.

4th generation 50" PLASMA Quick Reference Chart

	PDP-504CMX	PDP-5004 PDP-5014	PRO1010HD	PRO1010HD/1	PDP-504CMX/1 PDP505CMX	PDP-5004/1 PDP-5014/1
Service Panel Assy	AWU1095 AWU1108	AWU1108	➔	AWU1114	➔ AWU1097	➔
Scan IC	AN16003A	➔	➔	AN16021AA	➔	➔
Power Supply Module	AXY1083,1106	➔	➔	➔	➔	➔
Digital Video Assy	AWV2100 or 84***	AWV2100	➔	AWV2169	➔ AWV2248	➔
Y Drive Assy	AWV2035, 68 AWV2144, 47	AWV2144 AWV2147	➔	AWV2082	➔	➔
X Drive Assy.	AWZ6808	AWZ6959	➔	AWZ6877	➔	➔
AV I/O Assy	AWZ6847	AWZ6967 AWZ6971	AWZ6962	➔	AWZ6847 AWW1062	AWZ6967 AWZ6971
Audio Amp Assy	AWZ6848	➔	➔	➔	➔	➔
RGB Assy	AWZ6883 AWZ6960	AWZ6961	➔	AWZ6993	AWZ6992 AWW1064	AWZ6993
FAN Motor	AXM1044	➔	➔	➔	➔	➔
Panel Sensor Assy.	AWZ6795	➔	➔	AWZ6872	➔	➔
LED OPT Assy	AWZ6854	AWZ6966	➔	➔	AWZ6957	➔
Side/Front Key Assy	AWZ6852	AWZ6970	AWZ6852	➔	➔	AWZ6970
Key Control Assy	AWZ6853	AWZ6969	AWZ6965	➔	AWZ6981	AWZ6969
IR Receive Assy	AWZ6855	➔	➔	➔	AWZ6989	➔
Comm Slot Assy	AWZ6849	AWZ6968	AWZ6963	➔	AWZ6849	AWZ6968
Comm Slot I/F	AWZ6850	AWZ6964	➔	➔	AWZ6980	AWZ6964
Video Card	AWV2097* AWV2098*	AWV2159**	AWV2158**	➔	AWV2097* AWV2098*	AWV2159**
Video Slot I/F Assy	AWZ6851	➔	➔	➔	➔	➔
Front Case Assy	AMB2788	AMB2843 AMB2844	AMB2842	➔	AMB2788 AMB2878	AMB2843 AMB2844
Hex Hole Bolt	SMZ80H400FZB	➔	➔	➔	➔	➔
AC cord	ADG1215	➔	➔	➔	➔	➔
Protect Panel Assy	AMR3348	➔	➔	➔	➔ N/A	➔
Frame L	N/A	N/A	ANB1872	➔	N/A	N/A
Frame R	N/A	N/A	ANB1873	➔	N/A	N/A
Frame U	N/A	N/A	ANB1871	➔	N/A	N/A
Frame D	N/A	N/A	ANB1874	➔	N/A	N/A
Display Stand	AMR3264	N/A	N/A	N/A	AMR3264	N/A
Remote Control	AXD1486	AXD1496 AXD1497	AXD1496	➔	AXD1486	AXD1496 AXD1497
Service Manual	ARP3191	ARP3221	ARP3219	ARP3248	ARP3241 ARP3305	ARP3250
Owner's Manual	ARD1055	ARE1386	ARE1385	ARE1385	ARD1055 ARD1059	ARE1386

*Video Card PDA-5003 (AWV2097) and PDA-5004 (AWV2098)

**Will need Torx Driver #T10H to remove

***For panels with narrow margin.

5th generation PLASMA Quick Reference Chart

	PDP4350SX	PDP5050SX	PRO505PU	PDP505PU		PRO435PU	PDP435PU
Start of serial #				xxSS	xxPM		
Service Panel Assy	AWU1126	AWU1131	AWU1097	↗	↗	AWU1096	↗
Power Supply Module	↗	↗	AXY1085, 1107*	↗	↗	↗	↗
Digital Video Assy	↗	AWV2181	AWV2074, 2180 or 2235**	↗	↗	↗	↗
Scan IC	SN755866PZP	↗	AN16021AA	↗	↗	SN755866PZP	↗
Y Drive Assy	AWV2179	↗	AWV2082	↗	AWV2198 ↗ ***	AWV2078	↗
X Drive Assy.	AWZ6991	↗	AWZ6877	↗	AWW1003 ↗ ***	AWZ6865	↗
Panel IF Assy.	N/A	N/A	AWZ6841	↗	↗	↗	↗
Audio Amp Assy	↗	AWW1005	AWZ6863	↗	↗	↗	↗
TUNER BOARD ASSY	↗	AWE1303	N/A	N/A	N/A	N/A	N/A
MAIN BOARD ASSY	↗	AWV2183	N/A	N/A	N/A	N/A	N/A
AV BOARD ASSY	↗	AWW1007	N/A	N/A	N/A	N/A	N/A
MR POWER SUPPLY UNIT	↗	AXY1091	N/A	N/A	N/A	N/A	N/A
Front Case Assy	AMB2859	AMB2860	AMB2836	↗	↗	AMB2835	↗
AC cord	↗	↗	ADG1215	↗	↗	↗	↗
Remote Control	↗	AXD1502	AXD1490	AXD1489		AXD1490	AXD1489
System Cable (white/black)	N/A	N/A	ADF1027, 9 or 1	↗		↗	↗
Service Manual	↗	ARP3261	ARP3214	↗ & 3264	↗ & 3258	ARP3211	↗ & 3257, 63
Owner's Manual	↗	ARE1394	ARE1561	ARE1379		ARE1561	ARE1379

* Lead-free solder.

** Buzz reduced (must adjust 50"). May update with PC.

Pioneer 42" & 61" Plasma parts & board assy interchangeability list

Applicable models: PDP4214HD, PDP42A3HD, PRO1410HD, PDP614MX, PDP6100HD, PDP424MV

	Part description	Latest Part #	Old part #	PDP4214HD	PDP42A3HD	PDP6100HD	PRO1410HD	PDP614MX	PDP424MV	Remarks
PLASMA PANEL ASSY	PDP Module	9S900116	9S900077, 3S361002			X	X	X		
		9S900064	3S342013						X	
		PDP-NP42H5MF01PA		X	X					
POWER SUPPLY ASSY	Power Unit	3S110165	3S110164, 161			X	X	X		
		3S110211							X	
	Power SMPS	01403-0120		X	X					
PANEL DIGITAL ASSY	Digital video assy	9S899843 (05C-33)	9S899731 (05D-27)			X	X	X		See service manual pg 12-6 for additional replacement target versions.
			9S899791 (05C-27)			X	X	X		
		9S899844 (05C-34)	9S899792 (05C-28)			X	X	X		
			9S899793 (05D-28)			X	X	X		
		9S899878 (03K-06)	9S899847 (03J-06)						X	
	Digital Board	9S890002 (17C-08)		X	X					
VIDEO PROCESSING ASSY	Digital Assy (Ucom& Video)	010-2741		X	X					
	DTT Analog Assy	010-2640		X	X					
	Main PWB Assy	937J8M03	937J8M01					X		
		937J9M03	937J9M01 and M02				X			
		937P9M01				X				
		937M2M03	937M2M02						X	
X,Y	High Voltage Board	9S899891 (Ver 03B)		X	X					
		9S899523							X	
X	Common Connection Board	9S899919 (Ver 02A)		X	X					
	Common PKG	9S899669				X	X	X		
		9S899869	9S899282						X	
Y	Scanning PKG	9S899659 (Ver 02A)	9S899790			X	X	X		
SCAN MODULES	Scan Relay Board (Up)	9S899897 (Ver 02A)		X	X					Up and down board versions must match.
		9S899862 (Ver 02C)		X	X					
	Scan Relay Board (Down)	9S899898 (Ver 02A)		X	X					
		9S899863 (Ver 02C)		X	X					
	Scanning relay PKG(Lower)	9S899850	9S899661			X	X	X		
		9S899855 (Ver 02A)	9S899355 (Ver 01C)						X	Upper and lower board versions must match.
		9S899866 (Ver 02B)	9S899531 (Ver 01D)						X	
	Scanning relay PKG(Upper)	9S899849	9S899660			X	X	X		
		9S899854 (Ver 02A)	9S899351 (Ver 01C)						X	Upper and lower board versions must match.
		9S899865 (Ver 02B)	9S899528 (Ver 01D)						X	

Pioneer 42" & 61" Plasma parts & board assy interchangeability list

Applicable models: PDP4214HD, PDP42A3HD, PRO1410HD, PDP614MX, PDP6100HD, PDP424MV

	Part description	Latest Part #	Old part #	PDP4214HD	PDP42A3HD	PDP6100HD	PRO1410HD	PDP614MX	PDP424MV	Remarks
ADDRESS MODULES	Data Relay Board (Left Down)	9S899895 (Ver 02A)		X	X					
	Data Relay Board (Right Down)	9S899896 (Ver 02A)		X	X					
	Data Relay Board (Left Up)	9S899893 (Ver 02A)		X	X					
	Data Relay Board (Right Up)	9S899894 (Ver 02A)		X	X					
	Signal relay PKG (lower center)	9S899762	9S899587			X	X	X		
	Signal relay PKG (lower left)	9S899586				X	X	X		
	Signal relay PKG (lower right)	9S899589				X	X	X		
	Signal relay PKG (upper center)	9S899760	9S899584			X	X	X		
	Signal relay PKG (upper left)	9S899583				X	X	X		
	Signal relay PKG (upper right)	9S899761	9S899585			X	X	X		
	Signal relay PKG (left)	9S899524							X	
	Signal relay PKG (right)	9S899525							X	
PROTECT PANEL ASSY	PDP Optical Filter	05100-0020		X	X					
	Filter	29KS0271	29KS0171			X	X	X		
		29KS0121							X	
	Fan	10511-07-001		X	X					
		3S170014				X	X	X		Left & Middle (from rear)
		3S170015				X	X	X		Right (from rear)
	Audio PWB Assy	937J8SH3	937J8SH1					X		
		937J9SH3	937J9SH1				X			
		937J9SH4				X				
		937F0SH4	937F7SH2						X	
	Sub AV & AMP Assy	220-2050		X	X					
	Sub Key Assy	220-2040		X	X					
	232C PWB Assy	937J8SA1						X		
		937J9SA1					X			
		937J9SA4				X				
		937F0SA3	937F0SA2						X	
	CTL PWB Assy	937J8SB1						X		
		937J9SB3	937J9SB1				X			
		937J9SB4				X				
		937F0SB3	937F0SB2						X	
	LED PWB Assy	937J8SD1						X		
		937J9SD3	937J9SD1				X			
		937J9SD4				X				
		937F0SD3	937F0SD2						X	
	Control IR & LED Assy	220-2060		X	X					
	Main AC switch Assy	937J8SC1						X		
		937J9SC2	937J9SC1				X			
		937J9SC4				X				
		937F0SC3	937F0SC2						X	
	Power Sw Assy	150-2040		X	X					

PDP425CMX

Quick Reference Chart

	PDP-425CMX
Service Panel Assy	AWU1160
Scan IC	SN755870PZT
Power Supply Module	AXY1127
MD Digital Assy	AWV2254
Y Drive Assy	AWV2251
X Drive Assy.	AWW1067
Main Assy.	AWW1100
Audio Assy	AWW1105
Address Assy	AWV2253
Sus Clamp 1	AWV2250
Sus Clamp 2	AWV2205
FAN Motor	AXM1054
Temp Sensor 1	AWW1102
Temp Sensor 2	AWW1103
Temp Sensor 3	AWW1104
LED Assy	AWW1109
Key Assy	AWW1108
Comm Slot Assy	AWW1106
Comm Slot I/F	AWW1107
Video Card	AWV2097 (PDA5003) AWV2098 (PDA5004)
Video Slot I/F Assy	AWW1101
Front Case Assy	AMB2885
Hex Hole Bolt	SMZ80H400FTC
AC cord	ADG1215
Protect Panel Assy	AMR3510
Frame L	N/A
Frame R	N/A
Frame U	N/A
Frame D	N/A
Display Stand	AMR3545
Remote Control	AXD1528
Cleaning cloth	AED1285
Extension Cable	GGD1469
Extension Cable	GGP1075
Service Manual	ARP3340
Owner's Manual	ARD1070

6th generation PLASMA Quick Reference Chart

	PRO506PU	PDP506PU	PRO436PU	PDP436PU
Service Panel Assy	AWU1134	☛	AWU1135	☛
Power Supply Module	AXY1112, AXY1129	☛	☛	☛
Digital Video Assy	AWW1028	☛	☛	☛
Y Drive Assy	AWV2258	☛	AWV2256	☛
X Drive Assy.	AWW1075	☛	AWW1074	☛
HD Audio Assy	AWV2203	☛	☛	☛
HD LED Assy	AWW1029	☛	☛	☛
HD IR Assy	AWW1030	☛	☛	☛
Scan IC	AN16025A	☛	SN755870PZT	☛
Front Case Assy	AMB2857	AMB2861	AMB2871	AMB2855
Hex Hole Bolt	SMZ80H400FZB	☛	☛	☛
AC cord	ADG1215	☛	☛	☛
Protect Panel Assy	N/A	☛	☛	☛
Remote Control	AXD1508	AXD1507	AXD1508	AXD1507
System Cable (white/black)	ADF1027, 9 or 1	☛	☛	☛
Service Manual	ARP3267	☛	ARP3271	☛
Owner's Manual	ARB1567	ARE1399	ARB1567	ARE1399

MEDIA RECEIVER	PROR06U	PDPR06U
Power Supply Unit	AXY1113	☛
MR DTB Assy	AWE1305	☛
MR Main Assy	AWV2223	AWV2225
Front Assy	AWW1044	AWW1046
LED Assy	AWW1045	☛
Service Manual	ARP3279	☛

	PDP4216HD	PDP5016HD
Service Panel Assy	AWU1208	AWU1233
Power Supply Module	AXY1153	AXY1153
Digital Assy	AWW1138	AWW1139
Y Drive Assy	AWV2400	AWW1145
Y Sub Drive		AWW1146
X Drive Assy.	AWW1196	AWW1143
X Sub Drive		AWW1144
INTERFACE ASSY	AWV2373	AWV2373
SUS CLAMP 1 Assy	AWW1022	
SUS CLAMP 2 Assy	AWW1023	
Sensor Assy	AWW1140	AWW1140
Service Manual	A3404	A3404
Owner's Manual	20010-1320	20010-1320
Front Case Assy		
Hex Hole Bolt		
AC cord	01300-0390	01300-0390
G-LINK cable	VDX1010	
Simple Remote		
Remote Control	01400-0850	01400-0850
Service Panel Assy	AWU1208	AWU1233

7th Generation Plasma Quick Reference Chart

THIS IS NOT A COMPLETE LIST OF PARTS! PLEASE CHECK THE SERVICE MANUAL FOR PARTS NOT LISTED HERE.

	PDP-4270HD PDP-4271HD	PRO-940HD	PDP-5070PU PDP-5071PU	PRO-507PU	PDP-6070PU PDP-6071PU	PRO-607PU	PRO-FHD1
POWER SUPPLY	AXY1149 AXY1150 AXY1153	AXY1153	AXY1149 AXY1150 AXY1153	AXY1153	AXY1139	AXY1139	AXY1148
SCAN A ASS'Y	N/A	N/A	N/A	N/A	AWW1186	AWW1186	AWW1229
SCAN B ASS'Y	N/A	N/A	N/A	N/A	AWW1187	AWW1187	AWW1230
SCAN IC	SN755870KPZT-P SN755866PZP (1)	SN755870KPZT-P ALL MODELS			N/A		
X DRIVE ASS'Y	AWW1195 AWW1196	AWW1195 AWW1196	AWW1143	AWW1143	AWV2366	AWV2366	AWV2293
50X SUB DRIVE	N/A	N/A	AWW1144	AWW1144	N/A	N/A	N/A
Y DRIVE	AWV2400 AWV2371 (1)	AWV2400	AWW1145	AWW1145	AWV2367	AWV2367	AWV2294
50Y SUB DRIVE	N/A	N/A	AWW1146	AWW1146	N/A	N/A	N/A
DIGITAL ASS'Y	AWW1138 AWW1193 (1)	AWW1138	AWW1139	AWW1139	AWW1190	AWW1190	AWW1115
SERVICE PANEL ASS'Y	AWU1208 AWU1225 (1)	AWU1209	AWU1212 AWU1233	AWU1227	AWU1228	AWU1229	AWU1198
MAIN ASSY (US BB)	AWV2312	AWV2309	AWV2312	AWV2309	AWV2312	AWV2309	AWV2292
AUDIO ASS'Y	AWW1185	AWW1185	AWW1131	AWW1131	AWW1131	AWW1131	AWW1118 (pre audio) AWW1117 (power amp)
INPUT ASSY (TANSHI)	AWW1156	AWW1153	AWW1156	AWW1153	AWW1156	AWW1153	N/A
LED IR ASS'Y	AWW1136	AWW1136	AWW1136	AWW1136	N/A	N/A	AWW1121
IR ASS'Y	N/A	N/A	N/A	N/A	AWW1137	AWW1137	AWW1123
SIDE KEY ASS'Y	AWW1133	AWW1133	AWW1133	AWW1133	AWW1133	AWW1133	AWW1124
POD ASSY (U)	AWW1154	AWW1158	AWW1154	AWW1158	AWW1154	AWW1158	
SIDE BLOCK (U BB)	AWW1157	AWW1155	AWW1157	AWW1155	AWW1157	AWW1155	N/A
HN MODULE ASSY	N/A	AWV2311	N/A	AWV2311	N/A	AWV2311	N/A
PANEL SENSOR	AWW1140	AWW1140	AWW1140	AWW1140	AWW1191	AWW1191	AWW1116
FAN	AXM1058	AXM1058	AXM1058	AXM1058	AXM1058	AXM1058	AXM1055 (2 center) AXM1056 (2 side)
SPEAKER ASSY L	AMW1010	AMW1010	N/A	N/A	N/A	N/A	N/A
SPEAKER ASSY R	AMW1011	AMW1011	N/A	N/A	N/A	N/A	N/A
REMOTE	AXD1536 AXD1539 (simple)		AXD1536 AXD1539 (simple)	AXD1531	AXD1536	AXD1531	AXD1535

(1) SPD07001. If first number of serial number is a 5 (FJPM5XXXXXEF), use these parts.

7th generation Plasma Quick Reference Chart

	PRO1140HD	PDP5071PU	PDP4271PU
Service Panel Assy	AWU1212	☛	AWU1208
Power Supply Module	AXY1135	☛	☛
Digital Assy	AWW1139	☛	AWW1138
Y Drive Assy	AWW1145	☛	AWV2334
Y Sub Drive	AWW1146	☛	NA
X Drive Assy.	AWW1143	☛	AWW1067
X Sub Drive	AWW1144	☛	NA
Audio Assy	AWW1131	☛	AWW1185
LED IR Assy	AWW1136	☛	☛
SIDE KEY Assy	AWW1133	☛	☛
Scan IC	SN755870KPZT-P	☛	☛
Side Block	AWW1157	☛	☛
Tanshi Assy	AWW1156	☛	☛
POD Assy	AWW1154	☛	☛
Main Assy	AWV2309	AWV2312	☛
HN Module Assy	AWV2311	NA	NA
Sensor Assy	AWW1140	☛	☛
Fan Motor	AXM1058	☛	☛
Service Manual	ARP3354	ARP3354	ARP3356
Owner's Manual		ARE1426	ARE1422
Front Case Assy		AMB2917	AMB2912
Hex Hole Bolt	SMZ80H400FZB	☛	☛
AC cord	ADG1215	☛	☛
G-LINK cable	VDX1010	☛	☛
Simple Remote		AXD1539	☛
Remote Control		AXD1536	☛

PROFHD 1

Quick Reference Chart

	PROFHD1
Service Panel Assy	AWU1198
Power Supply Module	AXY1134
FHD Main Assy	AWV2292
FHD Digital Assy	AWW1115
FHD Y Drive Assy	AWV2294
FHD X Drive Assy.	AWV2293
FHD Scan A Assy	AWW1129, 1229*
FHD Scan B Assy	AWW1130, 1230*
FHD Power Amp Assy	AWW1117
FHD Pre Audio Assy	AWW1118
Fan Connect Assy	AWW1122
LED Assy	AWW1121
IR Assy	AWW1123
KEY Assy	AWW1124
KEY Control Assy	AWW1125
Service Manual	ARP3390, 3344
Owner's Manual	ARE1425
Front Case Assy	AMB2910
Hex Hole Bolt	SMZ80H400FZB
AC cord	ADG1215
Remote Control	AXD1534

* New panel

8th Generation PLASMA Quick Reference Chart

THIS IS NOT A COMPLETE LIST OF PARTS! PLEASE CHECK SERVICE MANUALS AND IF THERE IS ANY DOUBT ABOUT THE PART NUMBER PLEASE CALL THE TECHNICAL ASSISTANCE LINE TO DETERMINE THE CORRECT PART NUMBER.

	PDP4280HD	PRO-950HD	PDP5080HD	PRO1150HD	PDP5010FD	PRO110FD	PDP6010FD	PRO150FD
SERVICE PANEL ASS'Y	AWU1276	AWU1276	AWU1277	AWU1277	AWU1272	AWU1273	AWU1274	AWU1275
POWER SUPPLY	AXY1157	AXY1157	AXY1157	AXY1157	AXY1168	AXY1168	AXY1169	AXY1169
SCAN IC	SN755875PZT-P	SN755875PZT-P	SN755875PZT-P	SN755875PZT-P	AN16174A	AN16174A	SN755871PZT-P	SN755871PZT-P
X DRIVE ASS'Y	AWV2452	AWV2452	AWV2447	AWV2447	AWV2510	AWV2510	AWV2505	AWV2505
Y DRIVE	AWW1262	AWW1262	AWW1260	AWW1260	AWV2511	AWV2511	AWV2506	AWV2506
DIGITAL ASS'Y	AWW1271	AWW1271	AWW1270	AWW1270	AWW1316	AWW1316	AWW1308	AWW1308
MAIN ASS'Y	AWV2455	AWV2456	AWV2455	AWV2456	AWV2457	AWV2458	AWV2457	AWV2458
INPUT ASS'Y (TANSHI)	AWW1273	AWW1284	AWW1279	AWW1287	AWW1334	AWW1335	AWW1334	AWW1335
LED ASS'Y	AWW1276	AWW1276	AWW1280	AWW1280	AWW1291	AWW1291	AWW1276	AWW1276
IR ASS'Y / RLS	AWW1277	AWW1277	AWW1281	AWW1281	AWW1289 AWW1292	AWW1289 AWW1292	AWW1289 AWW1292	AWW1289 AWW1292
SIDE KEY ASS'Y	AWW1275	AWW1275	AWW1275	AWW1275	AWW1275	AWW1275	AWW1275	AWW1275
POD ASS'Y (U)	AWW1295	AWW1295	AWW1295	AWW1295	AWV1295	AWV1295	AWV1295	AWV1295
SIDE IO ASS'Y	AWW1274	AWW1285	AWW1274	AWW1285	AWW1274	AWW1285	AWW1274	AWW1285
HN MODULE ASS'Y	NA	AWV2497	NA	AWV2497	NA	AWV2497	NA	AWV2497
PANEL SENSOR	AWW1272	AWW1272	AWW1272	AWW1272	AWW1309	AWW1309	AWW1309	AWW1309
FAN	AXM1058	AXM1058	AXM1058	AXM1058	AXM1058 AXM1064	AXM1058 AXM1064	AXM1058 AXM1063	AXM1058 AXM1063
POWER SWITCH	AWW1261	AWW1261	AWW1261	AWW1261	AWW1293	AWW1293	AWW1293	AWW1293
SPEAKER ASS'Y L	AMW1012	AMW1012	NA	NA	NA	NA	NA	NA
SPEAKER ASS'Y R	AMW1013	AMW1013	NA	NA	NA	NA	NA	NA
FRONT PANEL	AMB3015	AMB3019	AMB3028	AMB3029	AMB3001	AMB3002	AMB3035	AMB3036
REMOTE	AXD1550	AXD1549	AXD1550	AXD1549	AXD1550	AXD1549	AXD1550	AXD1549

