

HITACHI

Inspire the Next

SERVICE MANUAL

PA**No. 0226**NTSC
ATSCDW3
ChassisP50X901/DW3D
P50V701/DW3D
P50S601/DW3FR/C: CLU-4372A / CLU-123S P50X901
R/C: CLU-4374A P50V701
R/C: CLU-4373A P50S601

PRELIMINARY

This ADDENDUM is made due to the new models P50X901 (DW3D), P50V701 (DW3D) and P50S601 (DW3F). They are different to models P50H401 (DW3A), P50T501 (DW3A) and P50H4011 (DW3A). The Main difference is the panel, the X/V/S models use "AF1" Plasma Panel and the H/T Models use "AE1" Plasma Panel. Software (Digital Main PWB) is also different because of Plasma Panel difference.

Refer to Service Manual PA0224 when servicing X/V/S models in regards to other adjustments not covered in this addendum.

This ADDENDUM indicates only the differences and special considerations to be taken when servicing the X/V/S models.

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CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Before servicing this chassis, it is important that technician read the "IMPORTANT SAFETY INSTRUCTIONS" in Service Manual PA0224.

SAFETY NOTICE

USE ISOLATION TRANSFORMER WHEN SERVICING

Components having special safety characteristics are identified by a ⚠ on the schematics and on the parts list in this Service Manual and on the PA0224. Before servicing the chassis, it is important that the service technician read and follow the "Important Safety Instructions" shown in Service Manual PA0224.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

PLASMA DISPLAY PANEL

SPECIFICATIONS

APPEARANCE

Model name	Series Name	Cabinet Design
P50X901	Director's	High Gloss Black/Frame, High Gloss Black/Bezel, High Gloss Hidden/SP
P50S601	UltraVision	High Gloss Black/Frame, Black/Bezel, High Gloss Hidden/SP
P50V701	UltraVision	High Gloss Black/Frame, Black/Bezel, High Gloss Hidden/SP

SYSTEM

No.	Model name	Channel coverage band			Reception system		
		VHF(ch)	UHF(ch)	CATV(ch)	NTSC	ATSC (8VSB)	64QAM/256QAM
1	P50X901	2~13	14~69	A-5~A-1, A~I, J~W, W+1~W+94	X	X	X
2	P50S601				X	X	X
3	P50V701				X	X	X

STRUCTURAL DIMENSIONS

No.	Model name	WIDTH [mm]	HEIGHT [mm]	DEPTH [mm]	WEIGHT [kg]	Note
1	P50X901	1250	885(817)	423(134)	50.9(44.8)	Without table top stand.
2	P50S601	1241.4	884(820.2)	422.7(129)	49.8(43.7)	
3	P50V701	1241.4	884(820.2)	422.7(129)	49.9(43.8)	

EXTERNAL TERMINALS AND JACKS

Model name	Rear										
	A/V IN	S IN	COMP. IN	HDMI	M OUT	A OUT	Subwoofer OUT	ANT IN	OPT OUT	DV IN IEEE 1394	POD CARD
P50X901	3	1	2	2	1	1	—	1	1	—	1
P50S601	3	1	2	2	1	1	—	1	1	—	—
P50V701	3	1	2	2	1	1	—	1	1	—	1

Model name	Front							Rear			
	A/V IN	S IN	COMP. IN	HDMI	Photo (SD)	Upgrade	DV IN	IR OUT	IR OUT /G-LINK	SWIVEL OUT	RS232C
P50X901	1	—	—	1	1	←Common	—	1	1	1	1
P50S601	1	—	—	1	1	←Common	—	—	(1: Service)	1	1
P50V701	1	—	—	1	1	←Common	—	1	1	1	1

MAIN FEATURES

No.	Feature	P50 X901	P50 S601	P50 V701
1	Panel	AF1	AF1	AF1
2	Resolution	1920x 1080i	1920x 1080i	1920x 1080i
3	Front Filter with ARF (Transparency)	Mesh (36%)	Mesh (41%)	Mesh (36%)
4	Seine2	X	X	X
5	FRC (FC8)	X	—	X
6	One NTSC/ATSC Tuner	X	X	X
7	POD (Point Of Deployment)	X	—	X
8	PinP (Digital/External Analog SPLIT)	X	—	X
9	3 Picture Mode	X	X	X
10	Color Temperature Mode	4	4	4
11	Color Decoding Adjustment	X	—	—
12	Color Management Adjustment	X	—	—
13	7 Mode Aspect Ratio Interchangeable	X	X	X
14	EPG (G-GUIDE) Function	X	—	X
15	SD-card Photo Viewer	X	—	X
16	Audio Output	10W x2	10W x2	10W x2
17	Swivel	Power	Power	Power
18	AV NET, AV NET Learning	X	—	X
19	IR Pass Through	X	—	X
20	OSD Design	Direc.	B	C
21	Energy Star	—	—	—

POWER CONSUMPTION

MODEL NAME	INDICATED VALUE			PST [W]		CHASSIS
	Max. Rating	Max. Rating	(Average Rating)	Without POD	With POD	
P50X901	605W	5.7A	364W	0.6W	14W	DW3D
P50S601	587W	5.3A	350W	0.6W	-	DW3F
P50V701	605W	5.7A	364W	0.6W	14W	DW3D

SAFETY KEY COMPONENTS

Symbol.No. / P/N / Spec.	Model
F9A1 / P#FN00551 / Fuse 10A	P50X901, P50V701, P50S601

ADJUSTMENTS

NOTE: The next adjustment procedure is only for the P50X901, P50V701 and the P50S601, refer to the service manual PA no. 0224 for all the other adjustments.

VIDEO COLOR TEMPERATURE ADJUSTMENT - BLACK AND WHITE MODE.

-Preparation

- (1) Set the output of signal generator to white raster (Ratio: 100%).
- (2) Component signal (480i)
 - Video level: 0.7Vp-p
 - SYNC: 0.3Vp-p
 - Set-up level: 0V
- (3) Input white raster signal into COMPONENT input terminal.
- (4) Set user control to Day (Dynamic) mode (Picture mode).
- (5) Confirm that the mode is set as 'Factory setting mode'.
- (6) Aspect: 4:3 Expanded.

-Adjustment

- (1) Perform the following adjustment with the remote control.
- (2) Set the CRT color analyzer (CA-100) at the center of the panel.
- (3) Ensure that the adjustment parameters R/G/B DRIVE(B/W) are all set as **FF**.
- (4) After receiving the PC signal, reduce the value of two (or only one) of the RGB adjustment parameters step down two (or one) among adjustment R/G/B DRIVE(B/W) and adjust the value shown below.

Specification Video Color temperature (B/W) $x = 0.335 \pm 0.005$ $y = 0.343 \pm 0.005$ (Color temp : 5400K)

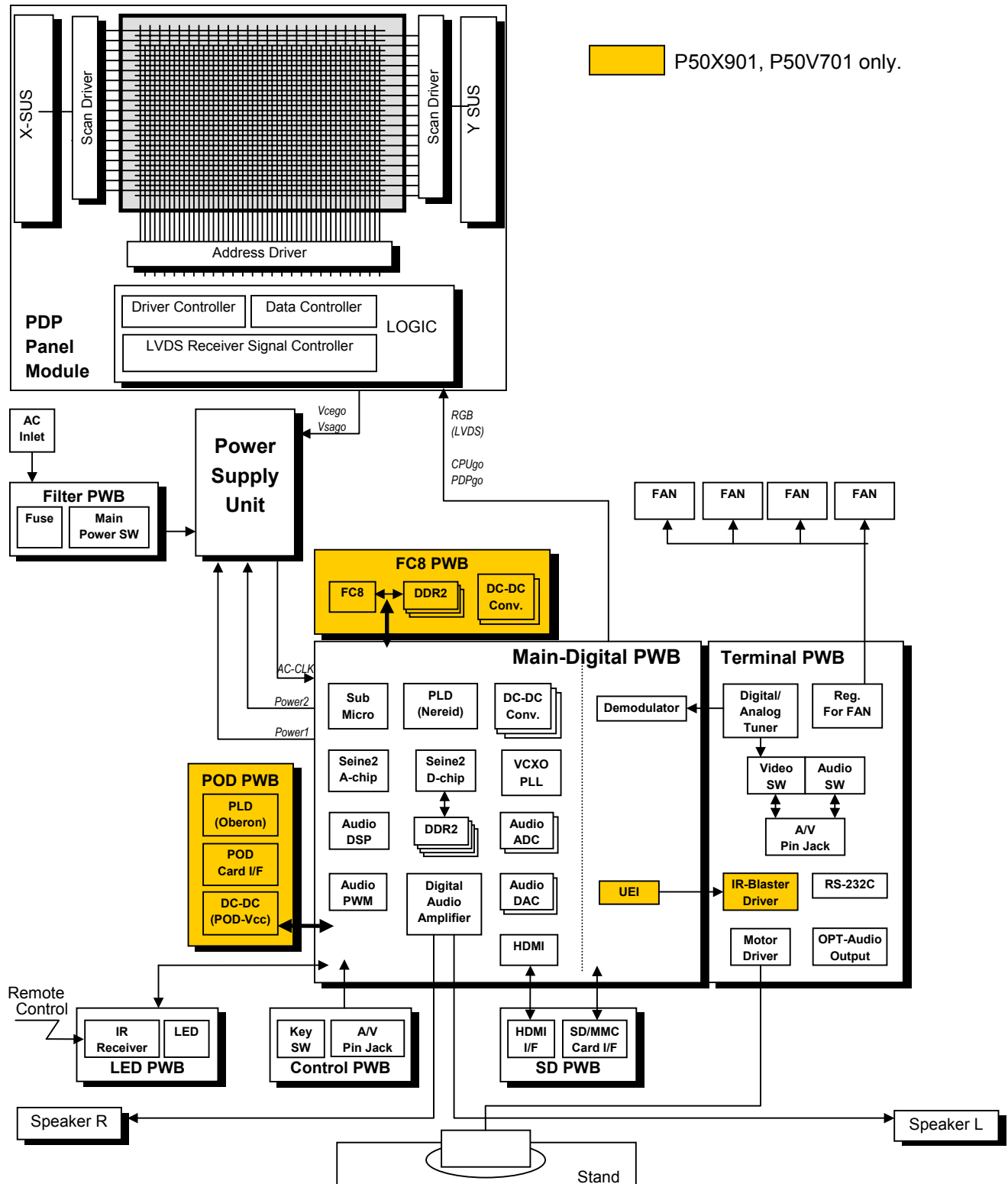
At least one of the data should be FF.

-Remarks

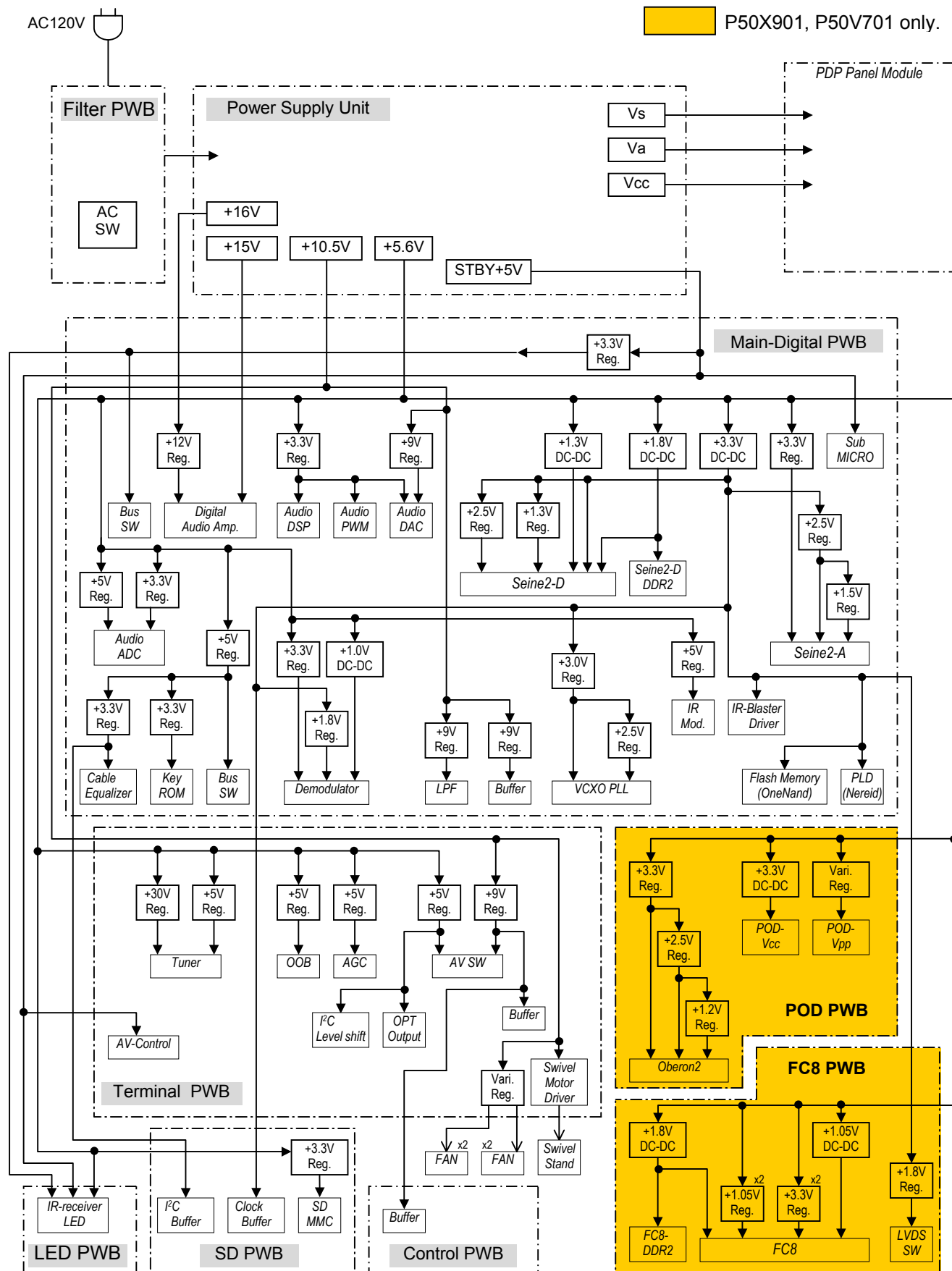
- (1) Color temperature should be adjusted under the condition in which the screen is the brightest, thus the initial value for adjustment is set at its maximum.
- (2) Adjustment is made by reducing brightness only. Reduce the brightest color for adjustment.
- (3) Video color temperature & Adjustment number are the same, but addresses in the memory are different, thus there's no problem.
- (4) When this adjustment item is done through MMC slot, Sniffer Jig must be inserted **after** the set is switched to Sniffer Mode. (the PC would have trouble if this sequence is not kept.)

BLOCK DIAGRAM

For P50X901, P50V701 and P50S601.

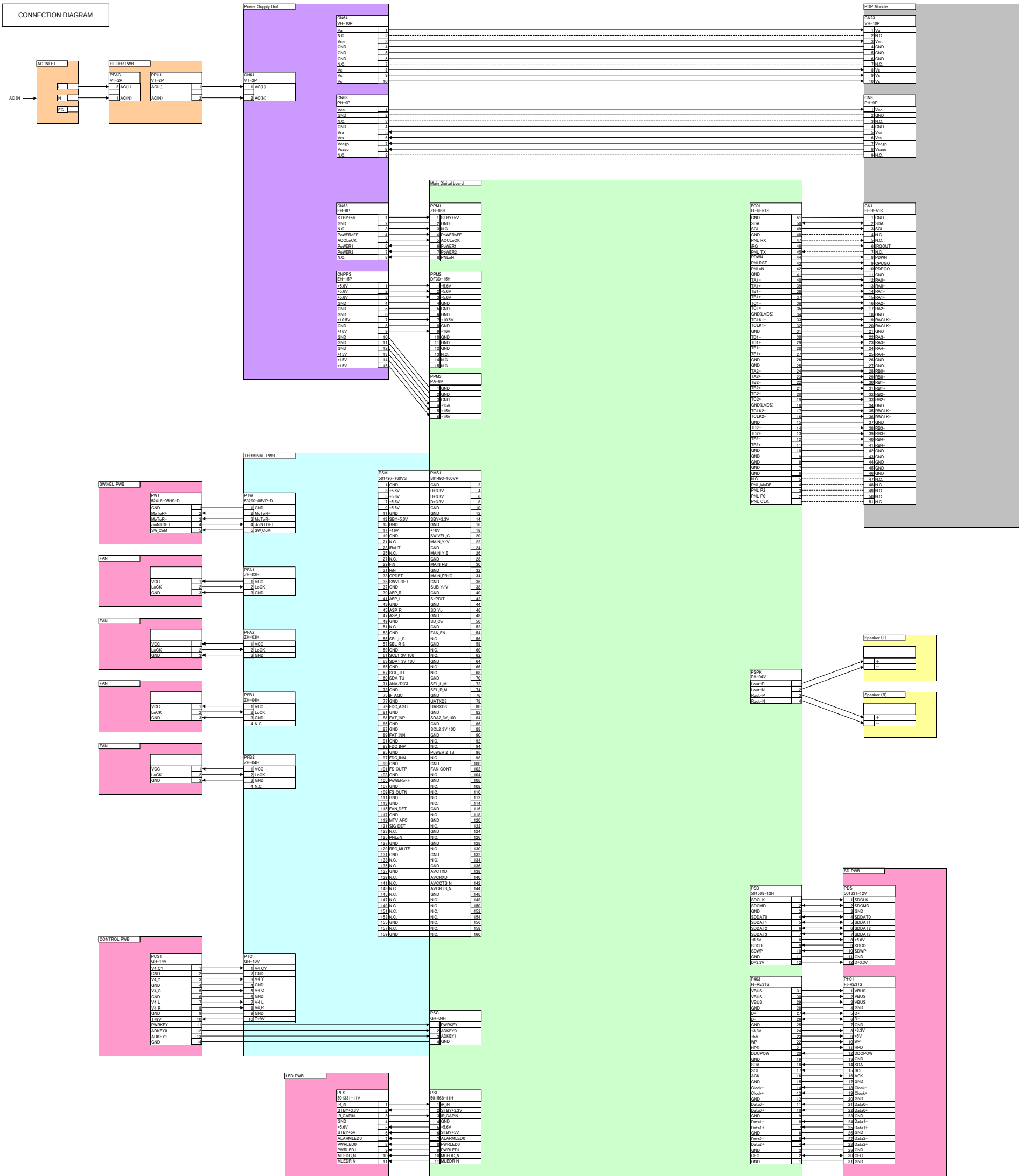


Power system block diagram



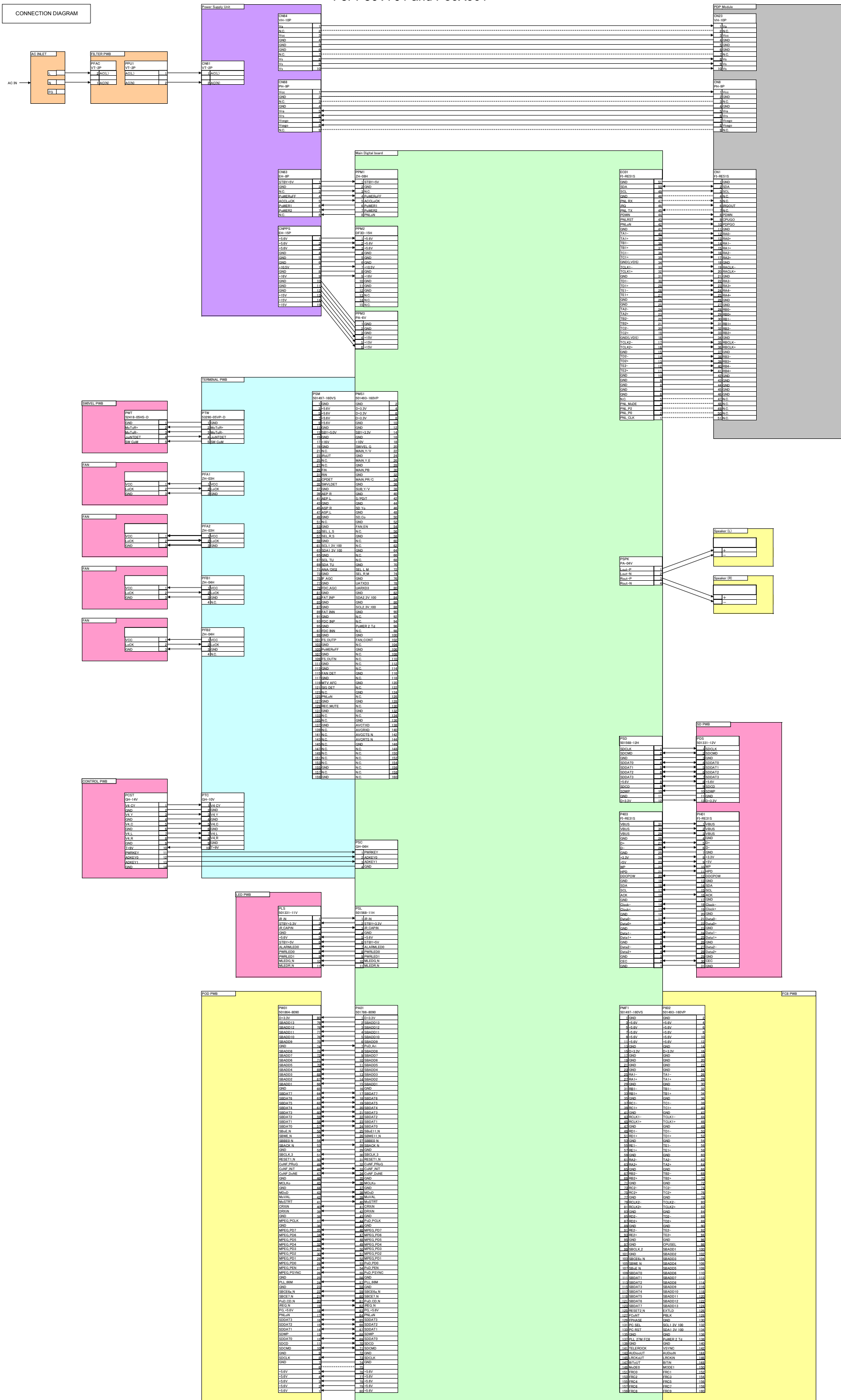
CONNECTIONS DIAGRAM

For P50S601.



CONNECTIONS DIAGRAM

For P50V701 and P50X901

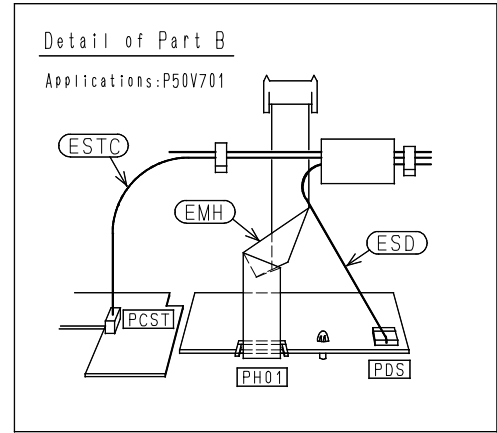
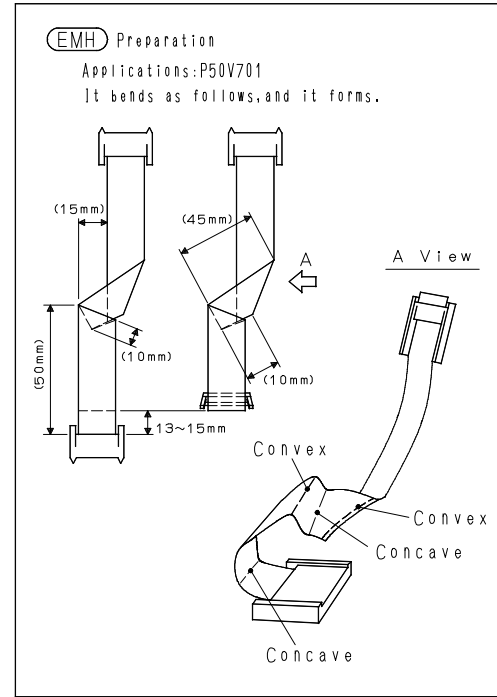


FINAL WIRING DIAGRAM
FOR P50V701 AND P50S601

Table of Using cable

Connector wire		Plug Pin 1		Plug Pin 2	
Name	Assy List	Board or Location	Name	Board or Location	Name
ESTC	Final Assy	CONTROL	PCST	TERMINAL	PTC
ESL	Final Assy	MAIN DIGITAL	PSL	LED	PLS
ESD	Final Assy	MAIN DIGITAL	PSD	SD	PDS
EMP1	Final Assy	MAIN DIGITAL	PA1	POD	PW01
EF1	Final Assy	TERMINAL	PF1	MFAN1	-
EF2	Final Assy	TERMINAL	PF2	MFAN2	-
EFB1	Final Assy	TERMINAL	PFB1	MFAN3	-
EFB2	Final Assy	TERMINAL	PFB2	MFAN3	-
ESP1	Final Assy	MAIN DIGITAL	SPK	SP-L/R	SP-L
ESP2	Final Assy	MAIN DIGITAL	SPK	SP-L/R	SP-R
EPM1	Final Assy	POWER	CN63	MAIN DIGITAL	PPM1
EPM2	Final Assy	POWER	CN65	MAIN DIGITAL	PPM2
EPU1	Final Assy	POWER	CN68	MAIN DIGITAL	PPM3
ECN23	Final Assy	POWER	CN64	PANEL X-SUS	CN23
ECN6	Final Assy	POWER	CN68	PANEL LOGIC	CN6
ECN1	Final Assy	MAIN DIGITAL	ECN1	PANEL	CN1
EFAC	Final Assy	FILTER	PFAC	INLET	-
EGND	Final Assy	SHASSIS Metal	GND	PANEL BASE	-

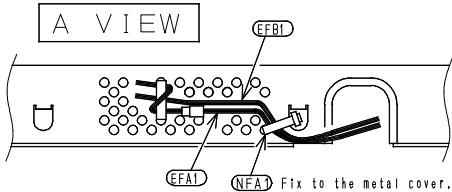
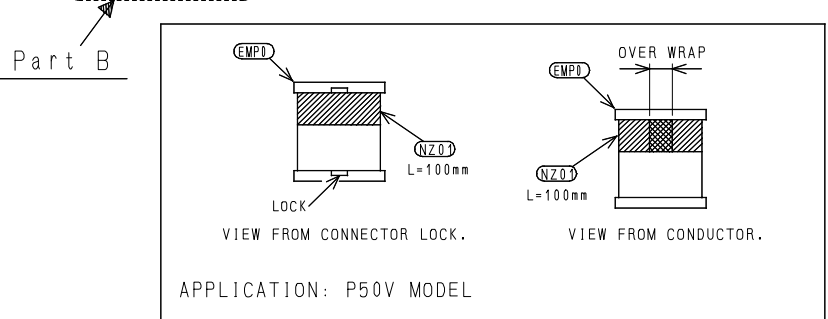
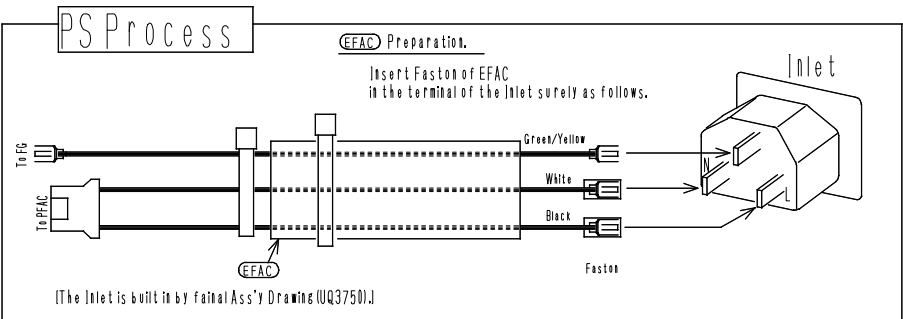
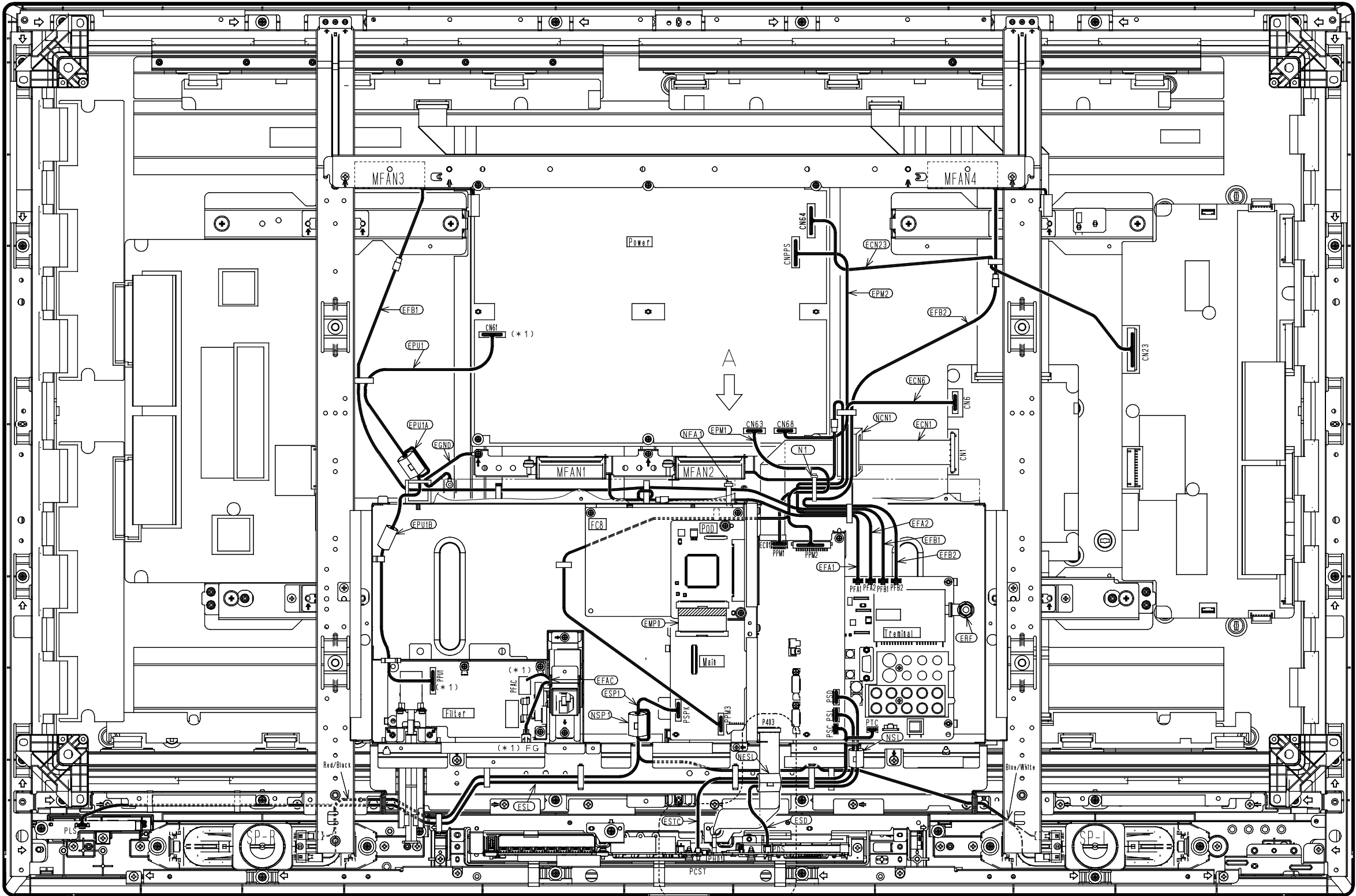
Notice: EMP1 is unnecessary for P50S601.



- Specification
1. This drawing shows the wiring diagram for 50" FHD_POP Chassis. The connection and wire styling are in the figure.
 2. This drawing shows the rear view of the set.
 3. Lock lead holders surely.
 4. EMP1 is unnecessary for P50S601.

PS Process

(*) Shown Part, CN61, PPU1, PFAC, and FG, please confirm insertion in the terminal surely.



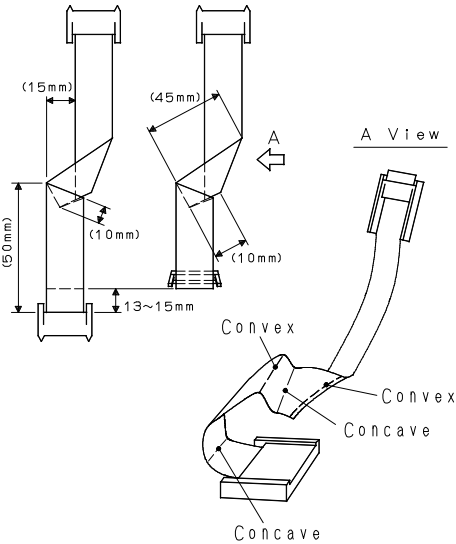
FINAL WIRING DIAGRAM
P50X901

Table of Using cable

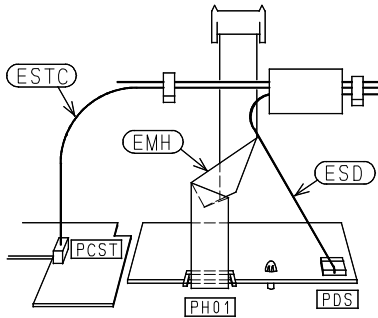
Connector wire		Plug Pin 1		Plug Pin 2	
Name	Assy List	Board or Location	Name	Board or Location	Name
ESTC	Final Ass'y	CONTROL	PCST	TERMINAL	PTC
ESL	Final Ass'y	MAIN DIGITAL	PSL	MAIN DIGITAL	PSC
ESD	Final Ass'y	MAIN DIGITAL	PSD	SD	PLS
EMP1	Final Ass'y	MAIN DIGITAL	PA1	POD	PW01
EF1	Final Ass'y	TERMINAL	PF1	MFAN1	-
EF2	Final Ass'y	TERMINAL	PF2	MFAN2	-
EFB1	Final Ass'y	TERMINAL	PFB1	MFAN3	-
EFB2	Final Ass'y	TERMINAL	PFB2	MFAN3	-
ESP1	Final Ass'y	MAIN DIGITAL	PSPK	SP-L/R	SP-L
ESP2	Final Ass'y	MAIN DIGITAL	PSPK	SP-L/R	SP-R
EPM1	Final Ass'y	POWER	CN63	MAIN DIGITAL	PPM1
EPM2	Final Ass'y	POWER	CN65	MAIN DIGITAL	PPM2
EPU1	Final Ass'y	POWER	CN61	FILTER	PPU1
ECN23	Final Ass'y	POWER	CN64	PANEL X-SUS	CN23
ECN6	Final Ass'y	POWER	CN68	PANEL LOGIC	CN6
ECN1	Final Ass'y	MAIN DIGITAL	ECN1	PANEL	CN1
EFAC	Final Ass'y	FILTER	PFAC	INLET	-
EGND	Final Ass'y	SHASSIS Metal	GND	PANEL BASE	-

EMH Preparation

It bends as follows, and it forms.



Detail of Part B



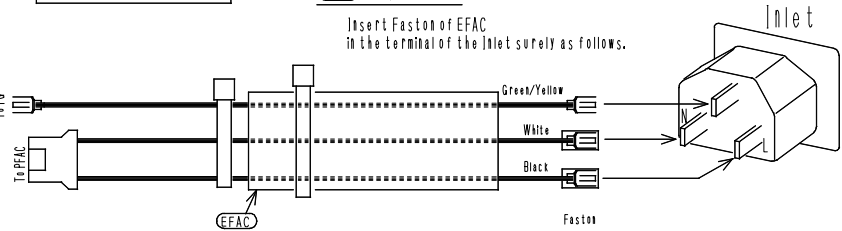
Specification

1. This drawing shows the wiring diagram for 50" FHD_PDP Chassis. The connection and wire styling are in the figure.
2. This drawing shows the rear view of the set.
3. Lock lead holders surely.

PS Process

(*) Shown Part, CN61, PPU1, PFAC, and FG, please confirm insertion in the terminal surely.

PS Process



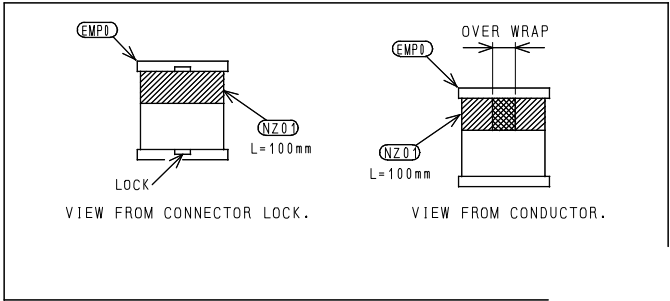
(The Inlet is built in by Final Ass'y Drawing(UQ3750).)

EFAC Preparation

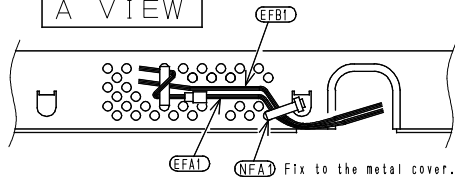
Insert Faston of EFAC in the terminal of the Inlet surely as follows.



Part B

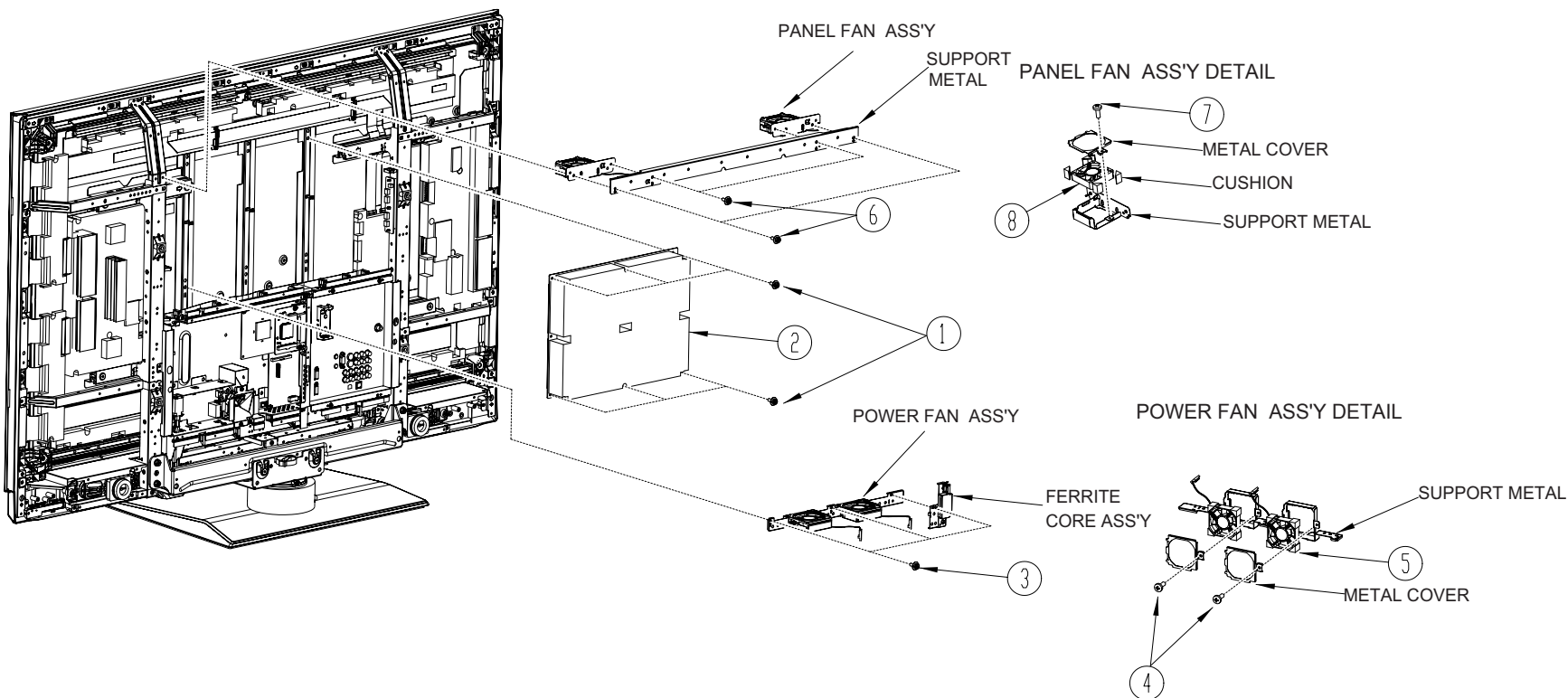


A VIEW



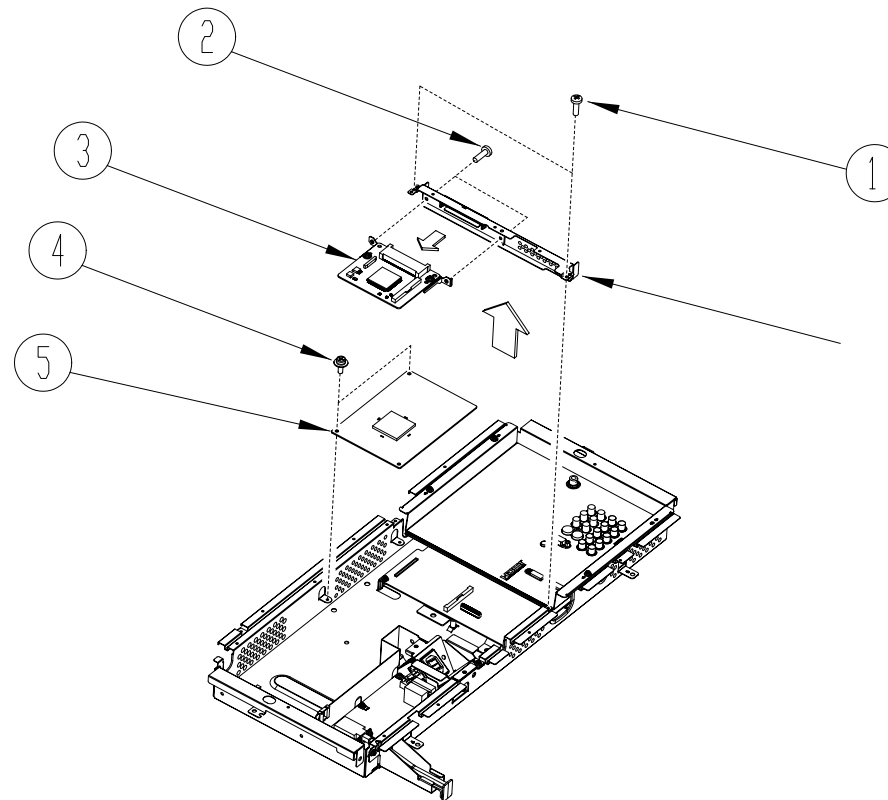
POWER UNIT, FAN ASSY(P50S601, P50V701, P50X901)

- ① Remove Screw M3M 3*8 P#MJ03598(4 pcs.)
Screw M3E 3*8 P#MJ03963(2 pcs.)
- ② Remove Power Unit P#HA02202
- ③ Remove Screw M3M 3*8 P#MJ03598(3 pcs.)
Power Fan Ass'y
- ④ Remove Screw M3D 4*10 P#MJ03895(2 pcs.)
- ⑤ Remove Fan P#GS00696(2 pcs.)
- ⑥ Remove Screw M3D 4*10 P#MJ03895(2 pcs.)
Screw M3D 4*10 P#MJ04067(2 pcs.)
Panel fan Ass'y
- ⑦ Remove Screw M3D 4*10 P#MJ04067(2 pcs.)
- ⑧ Remove Fan P#GS00697(2 pcs.)



CHASSIS ASS'Y 2(P50V701, P50X901 ONLY)

- ① Remove Screw M3E 3*8 P#MJ03467(2 pcs.)
- ② Remove Screw M3E 3*8 P#MJ03963(2 pcs.)
- ③ Remove POD PWB ASS'Y P#JP55141
- ④ Remove Screw M3E 3*8 P#MJ03467(2 pcs.)
- ⑤ Remove FC8 PWB ASS'Y P#JP56845

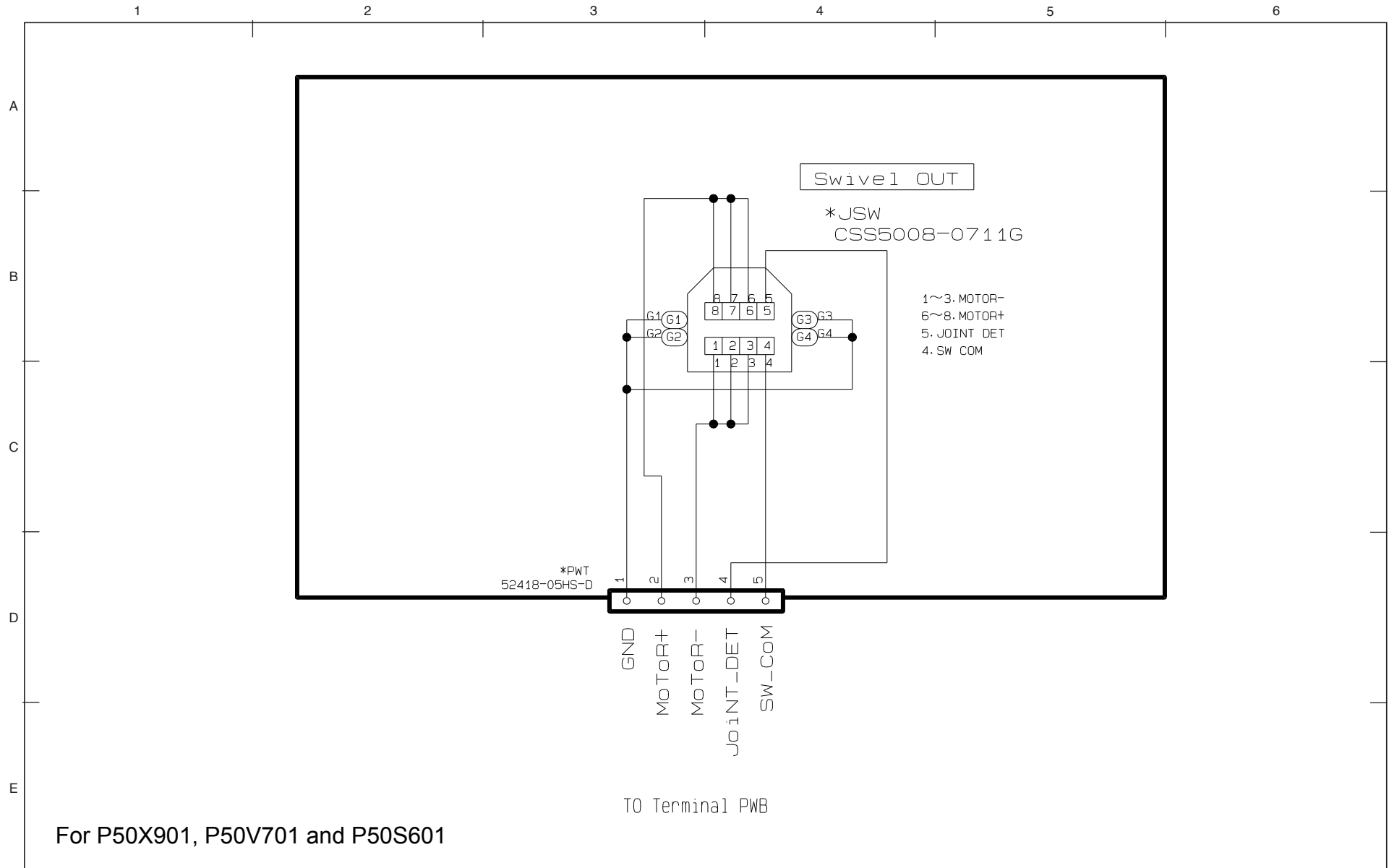


	1	2	3	4	5	6
A	NOTES ABOUT THE SCHEMATICS. The schematic drawings included in this service manual addendum are: 1. Swivel board 2. Filter board 3. Terminal board 4. LED board for P50X901 and for P50V701 5. POD board for P50X901 and for P50V701 Refer to the service manual PA no. 0224 for the next additional schematic drawings: 1. Control board (for P50X901, P50V701 and P50S601) 2. SD board (for P50X901, P50V701 and P50S601) 4. LED board for P50S601					
B						
C						
D						
E						

NOTES

BASIC CIRCUIT DIAGRAM

PRODUCT SAFETY NOTE: Components marked with a and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

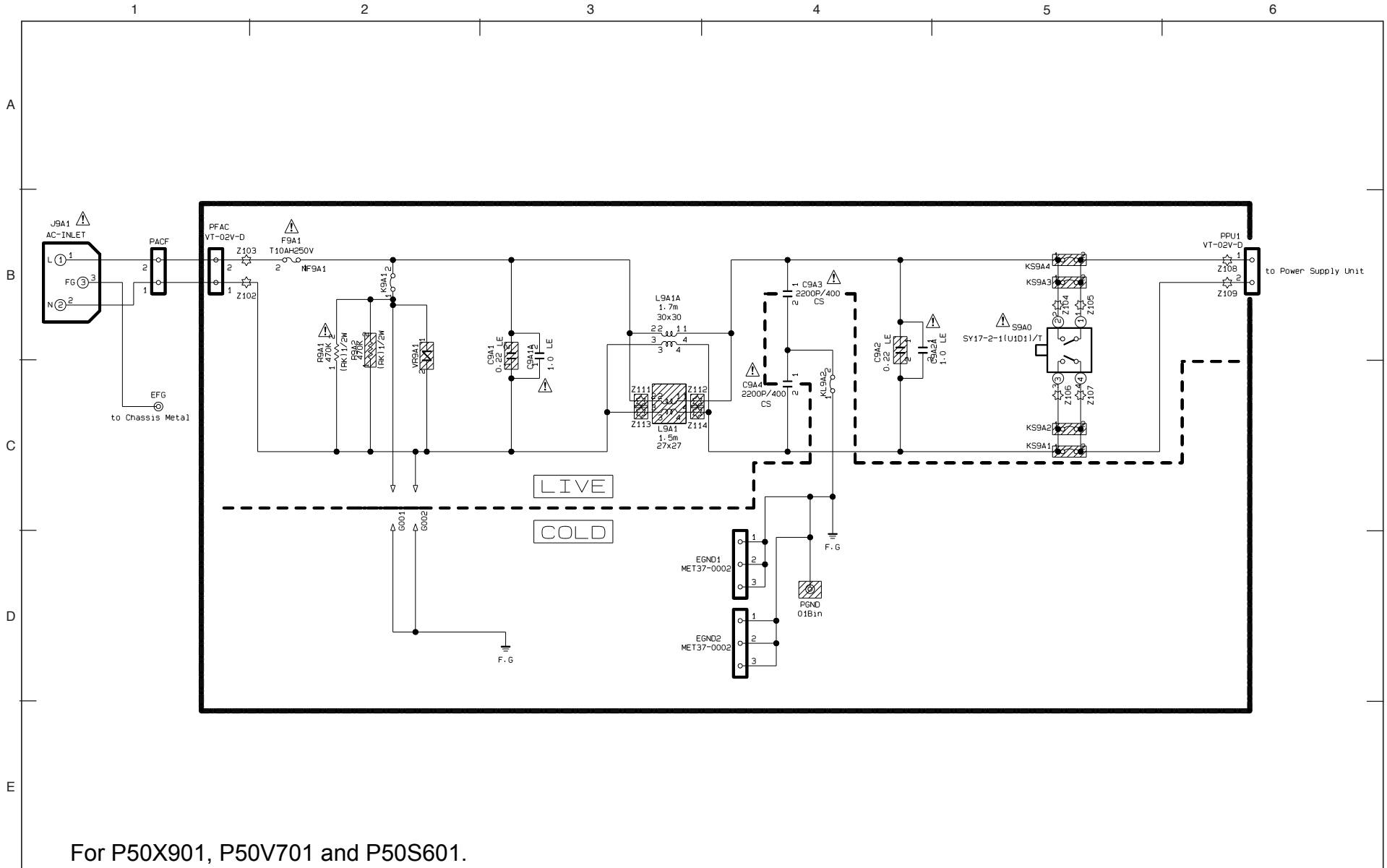


- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

SWIVEL

BASIC CIRCUIT DIAGRAM

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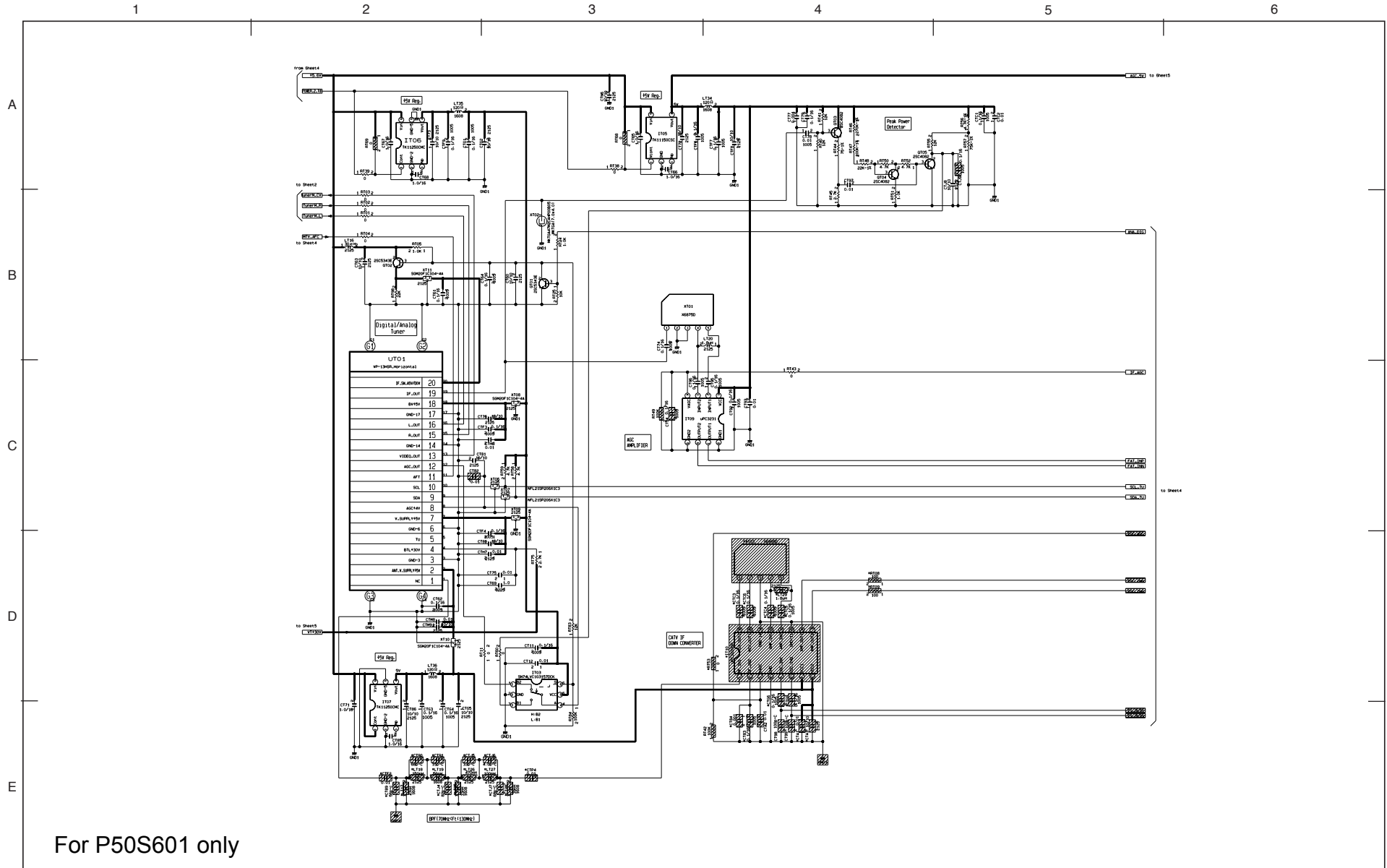


- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

FILTER

BASIC CIRCUIT DIAGRAM

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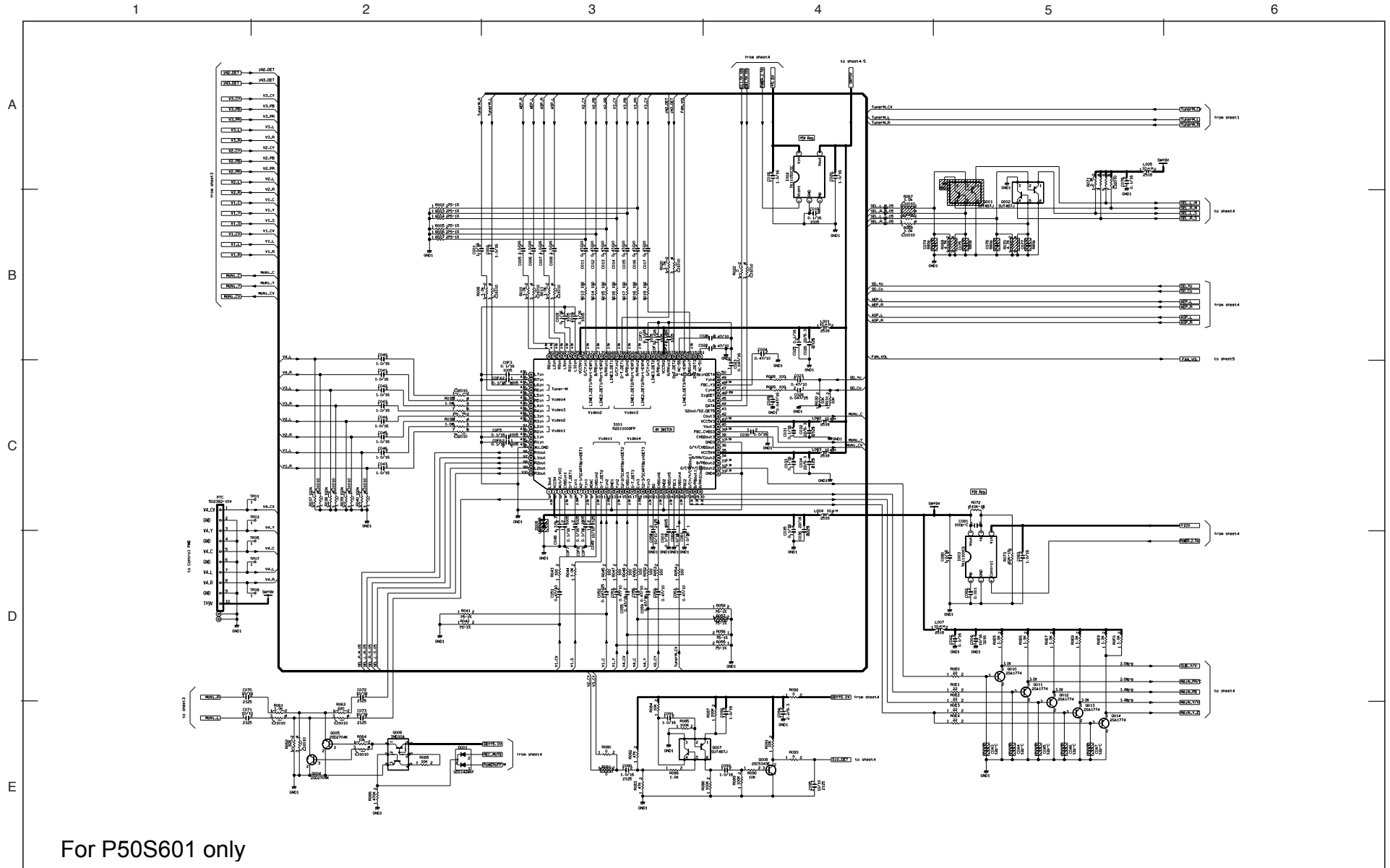


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TERMINAL

BASIC CIRCUIT DIAGRAM

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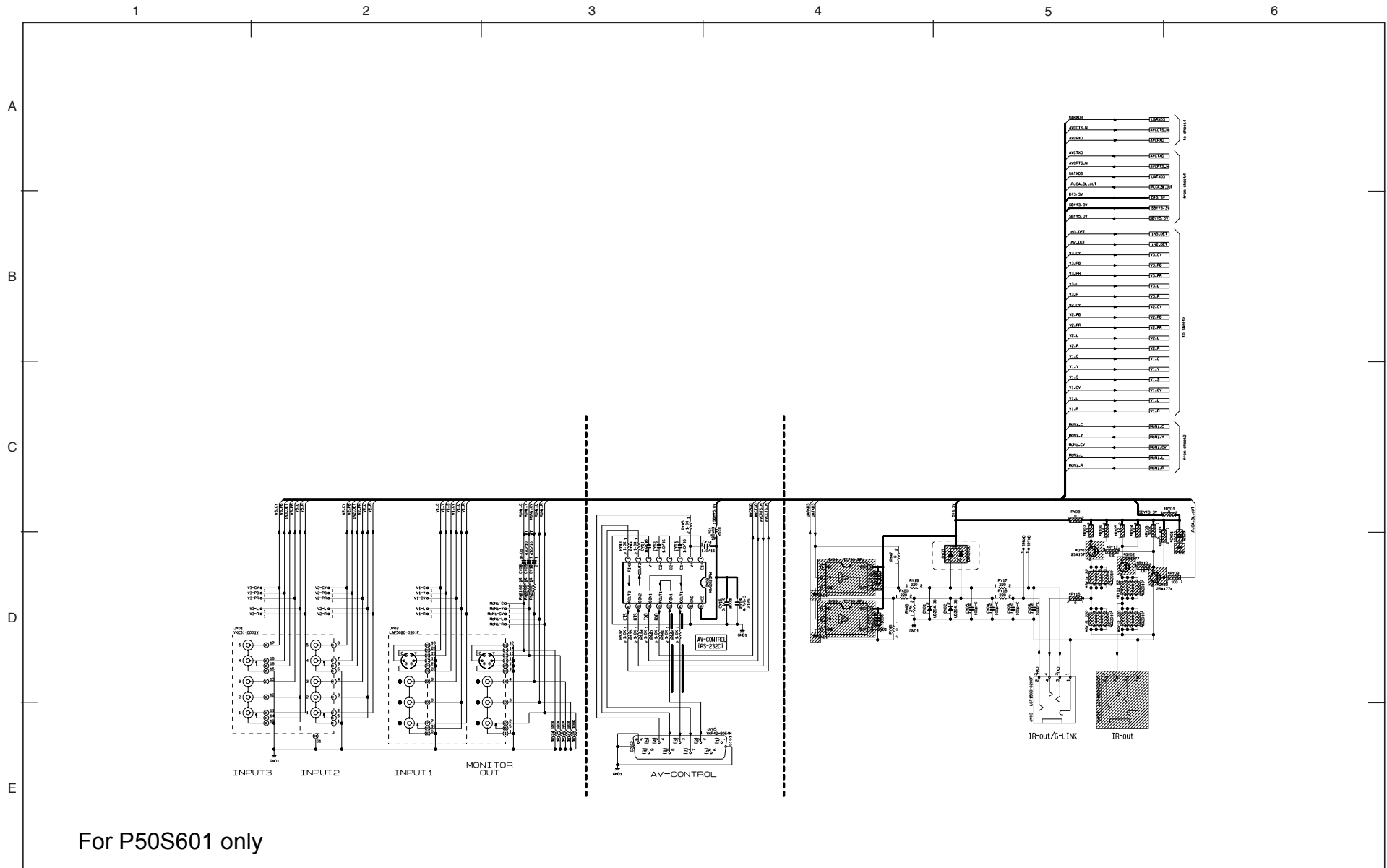


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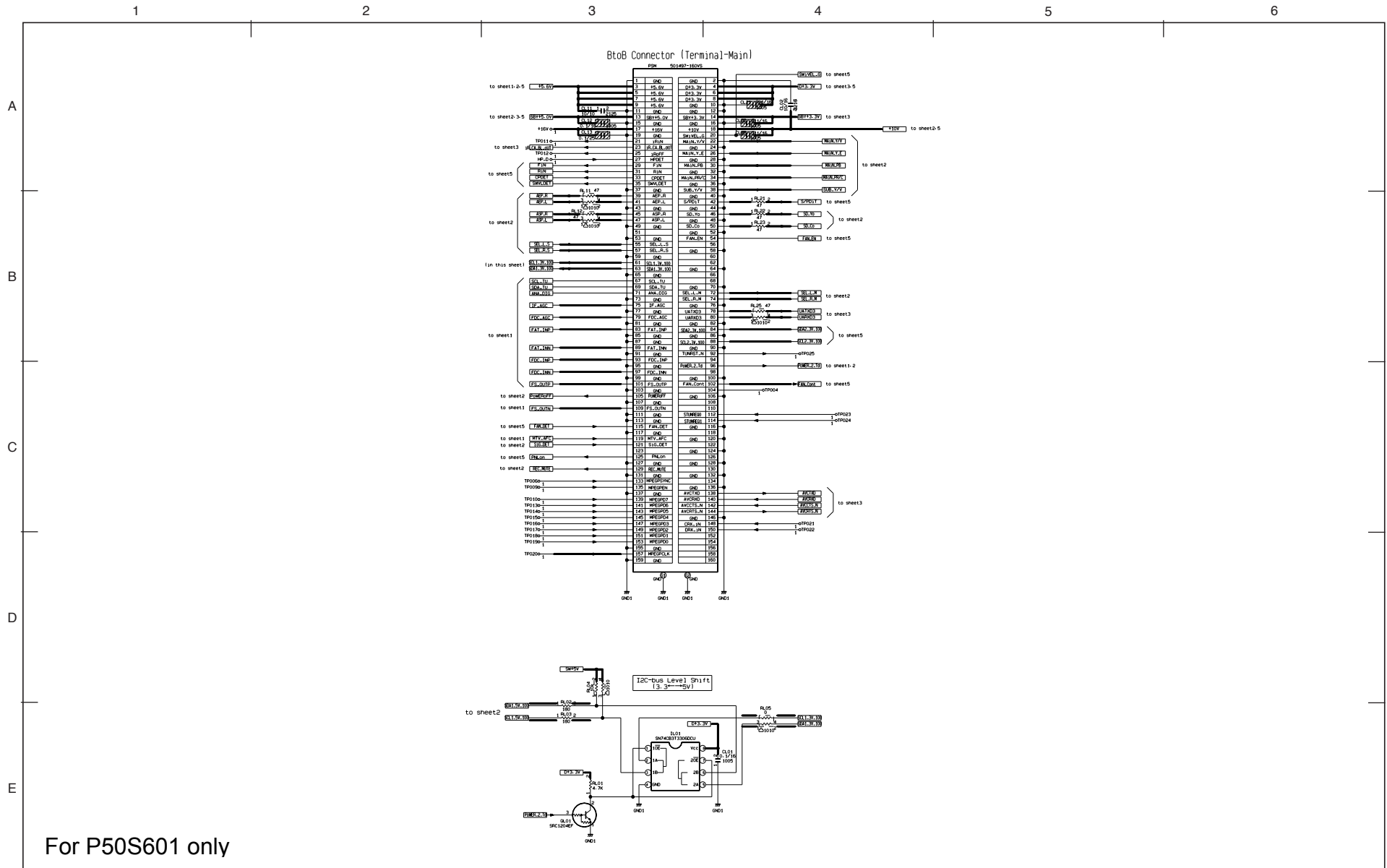


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TERMINAL

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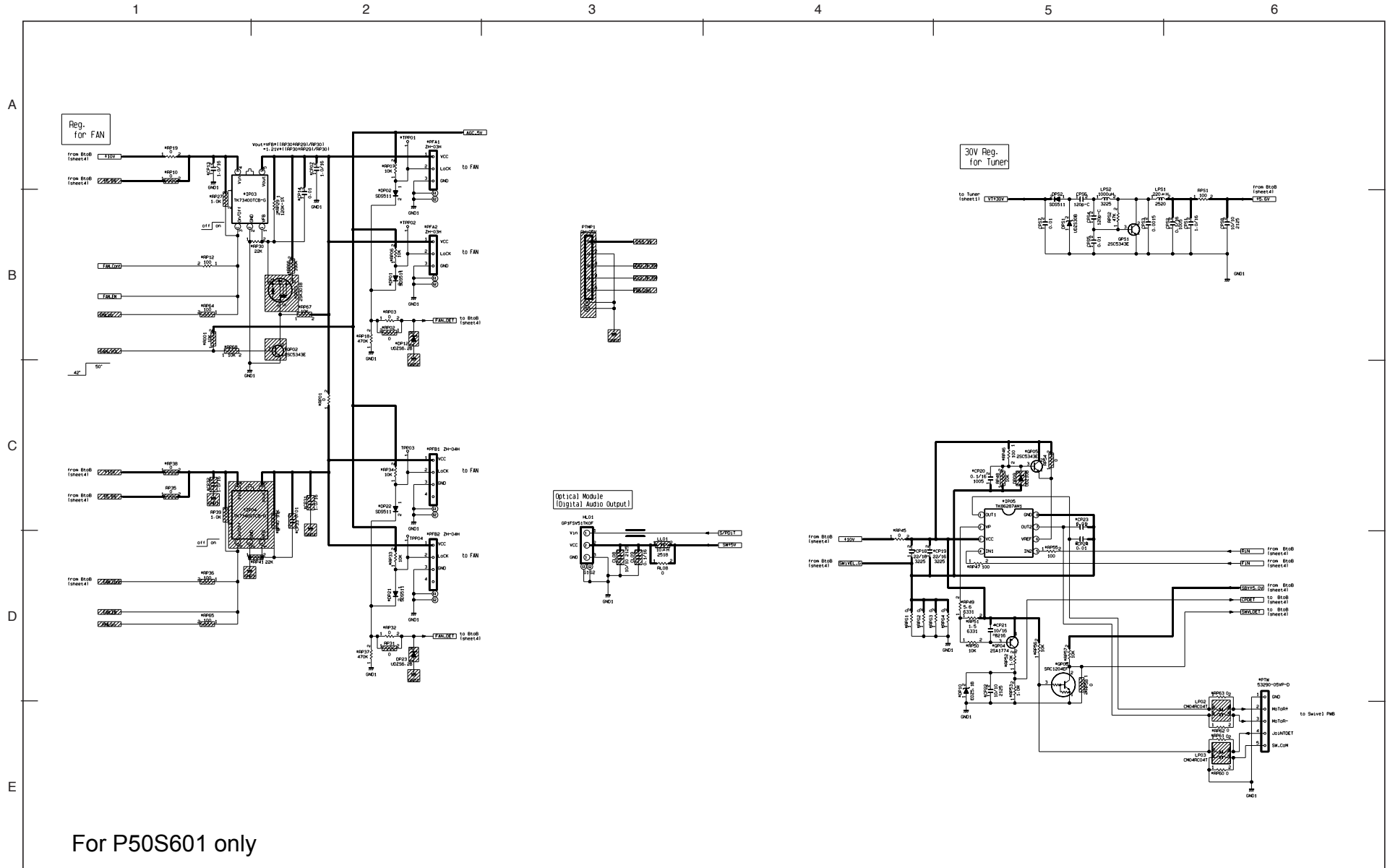


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TERMINAL

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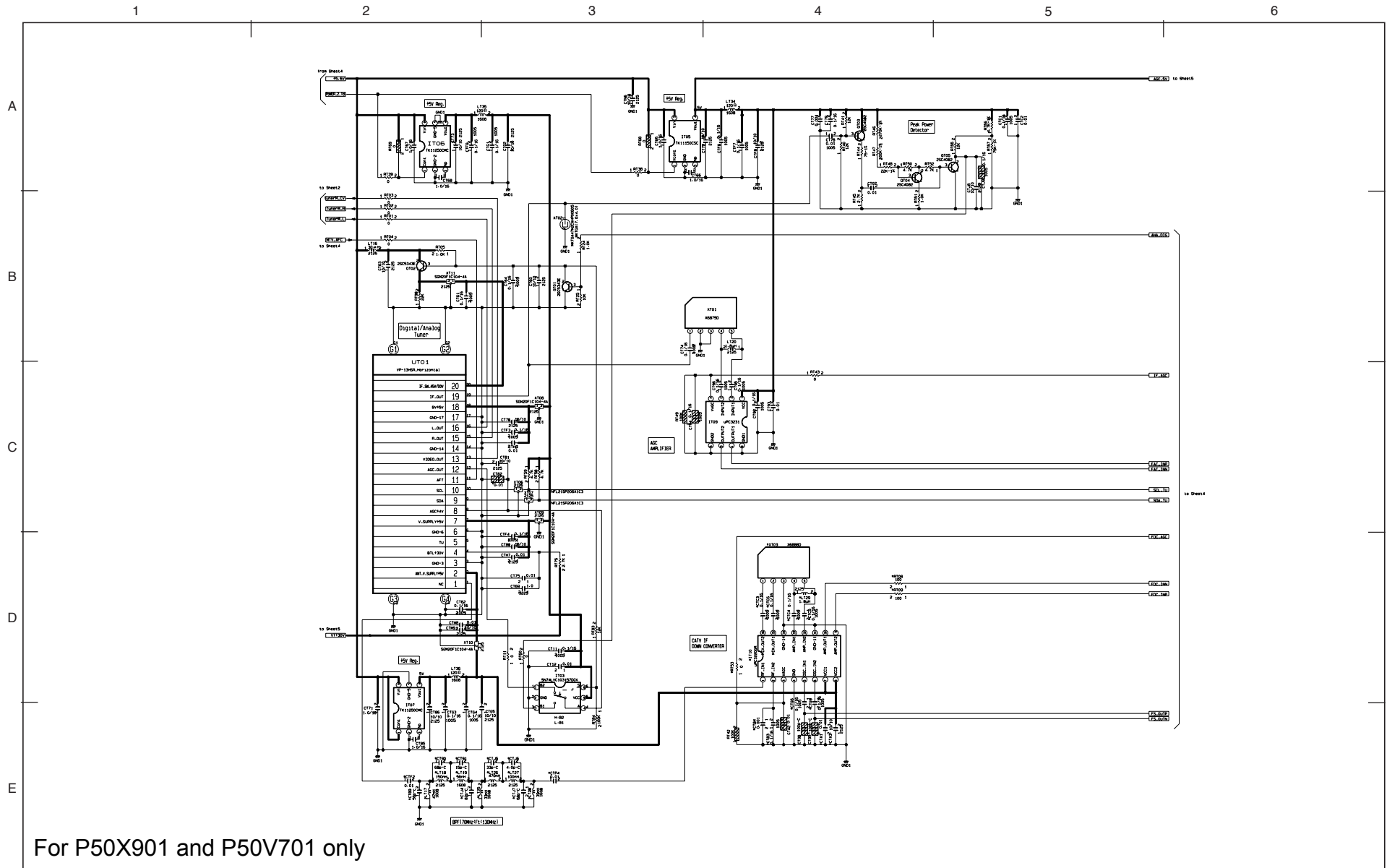


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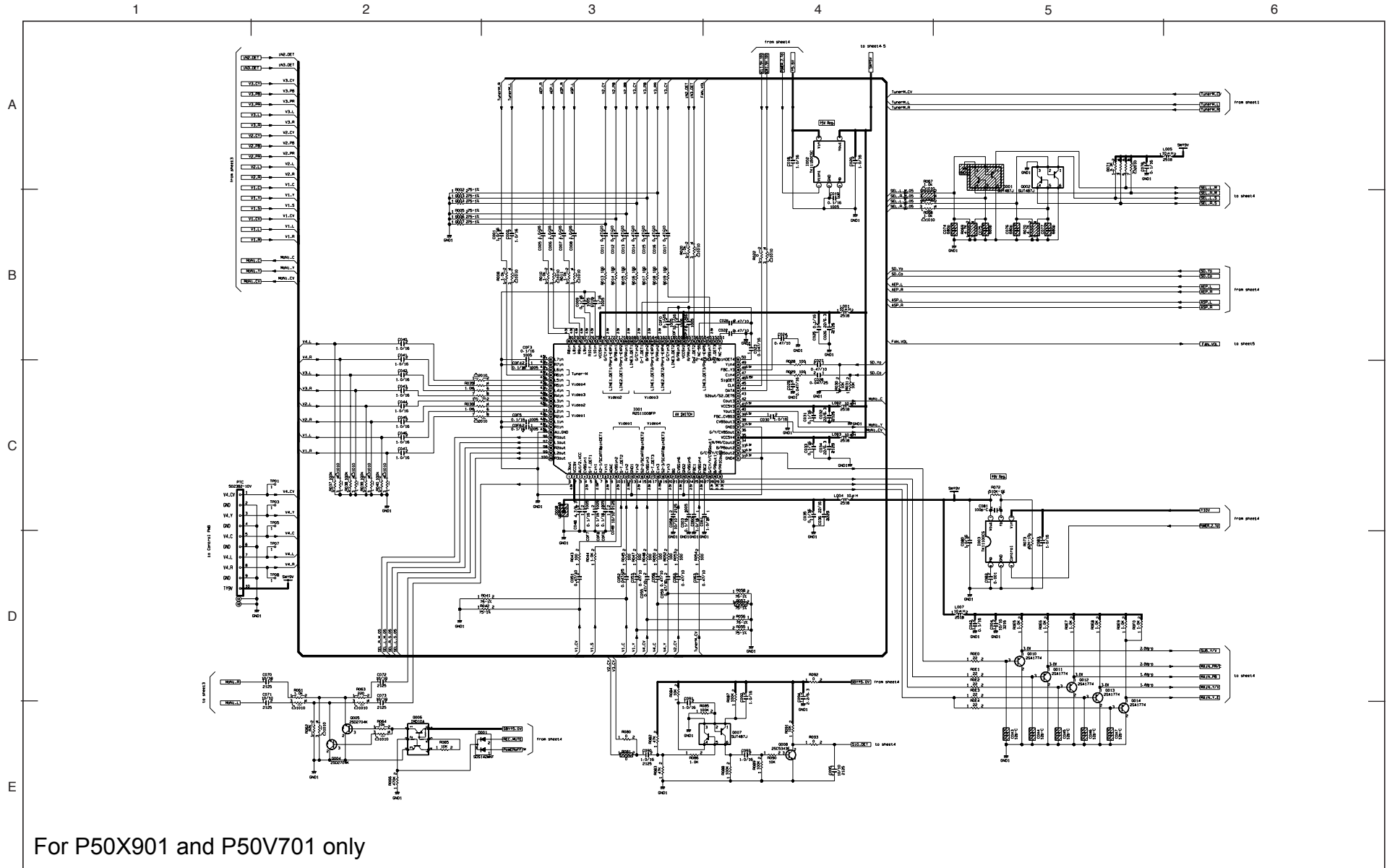


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TERMINAL

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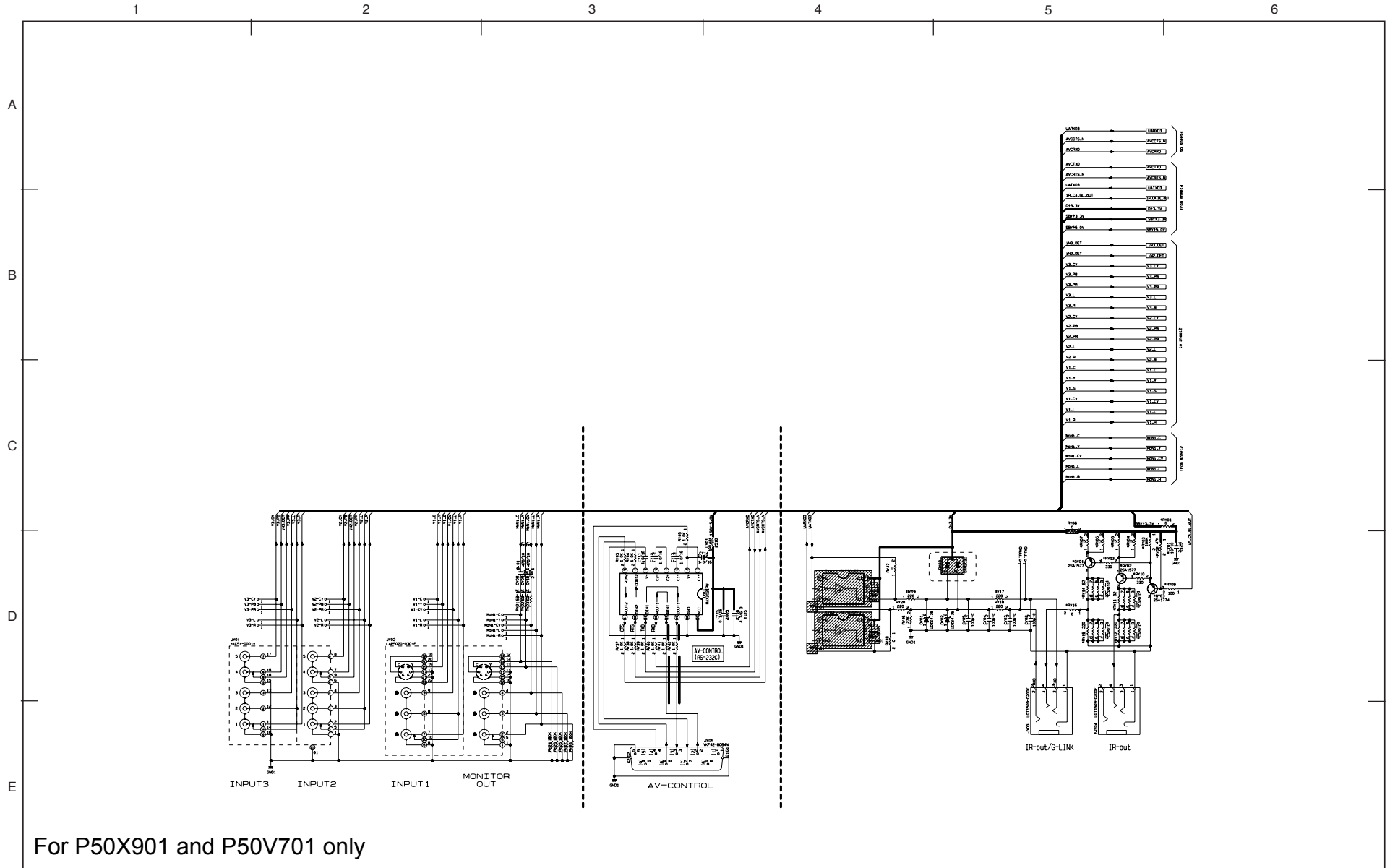


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TERMINAL

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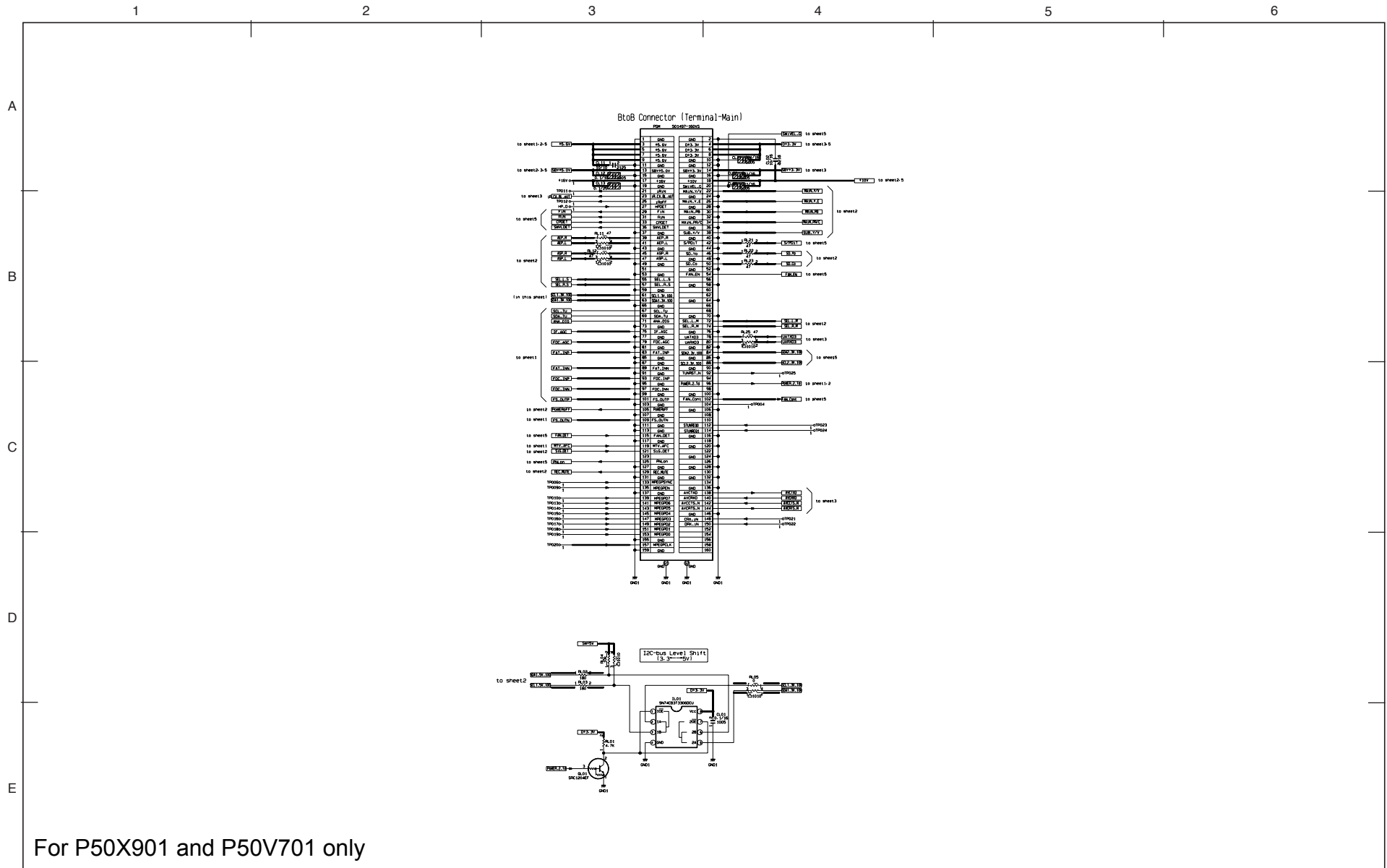


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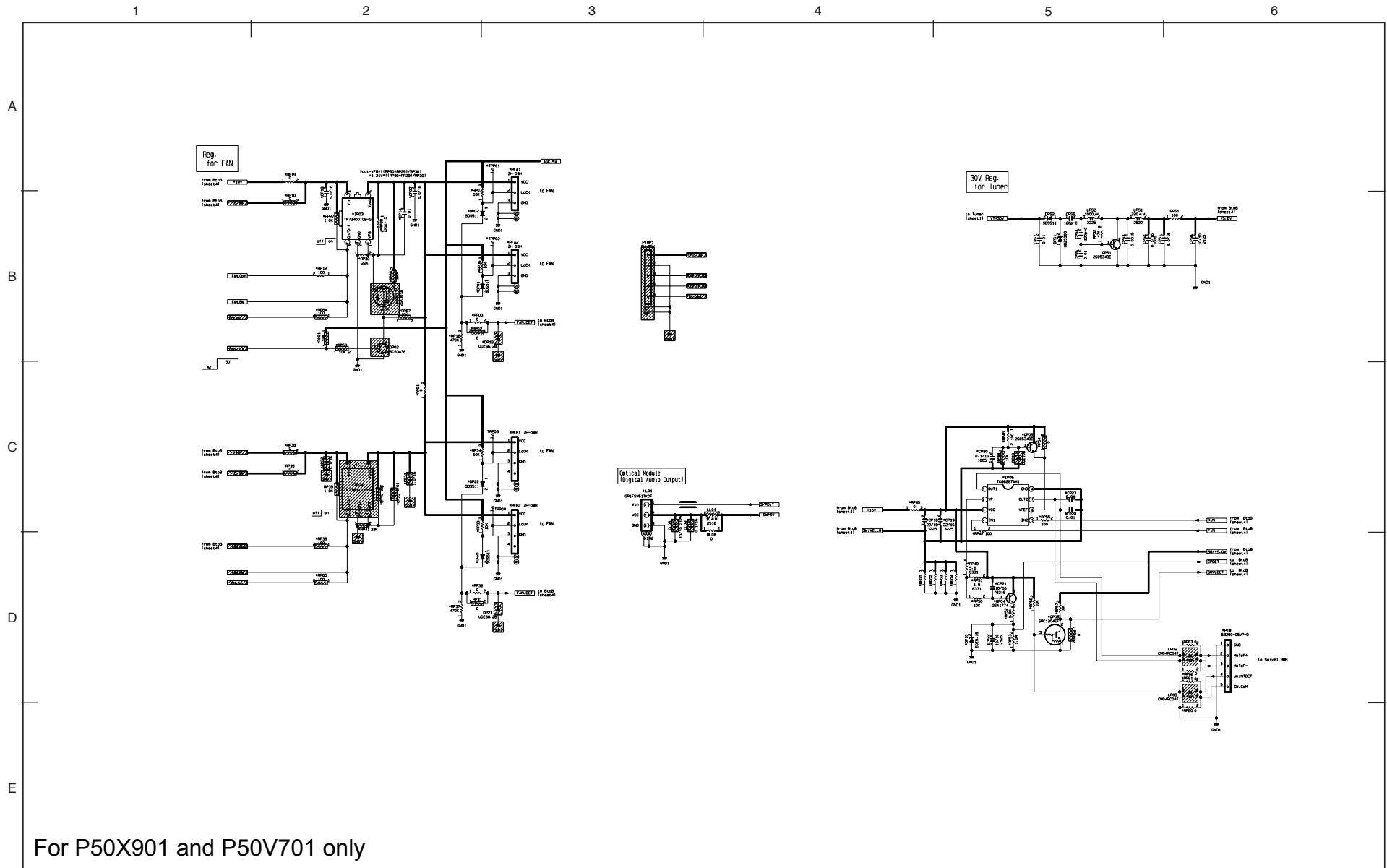


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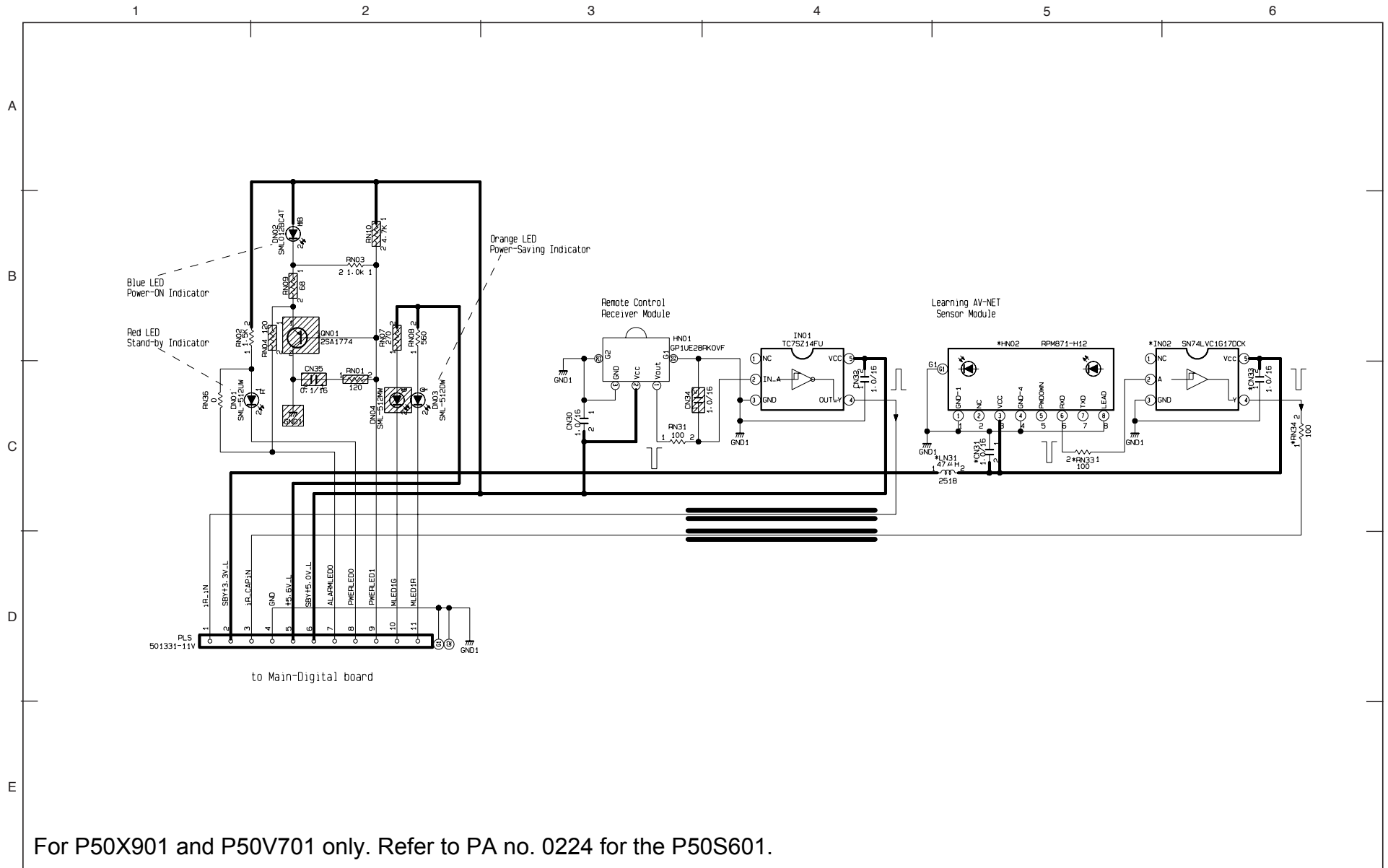


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BASIC CIRCUIT DIAGRAM

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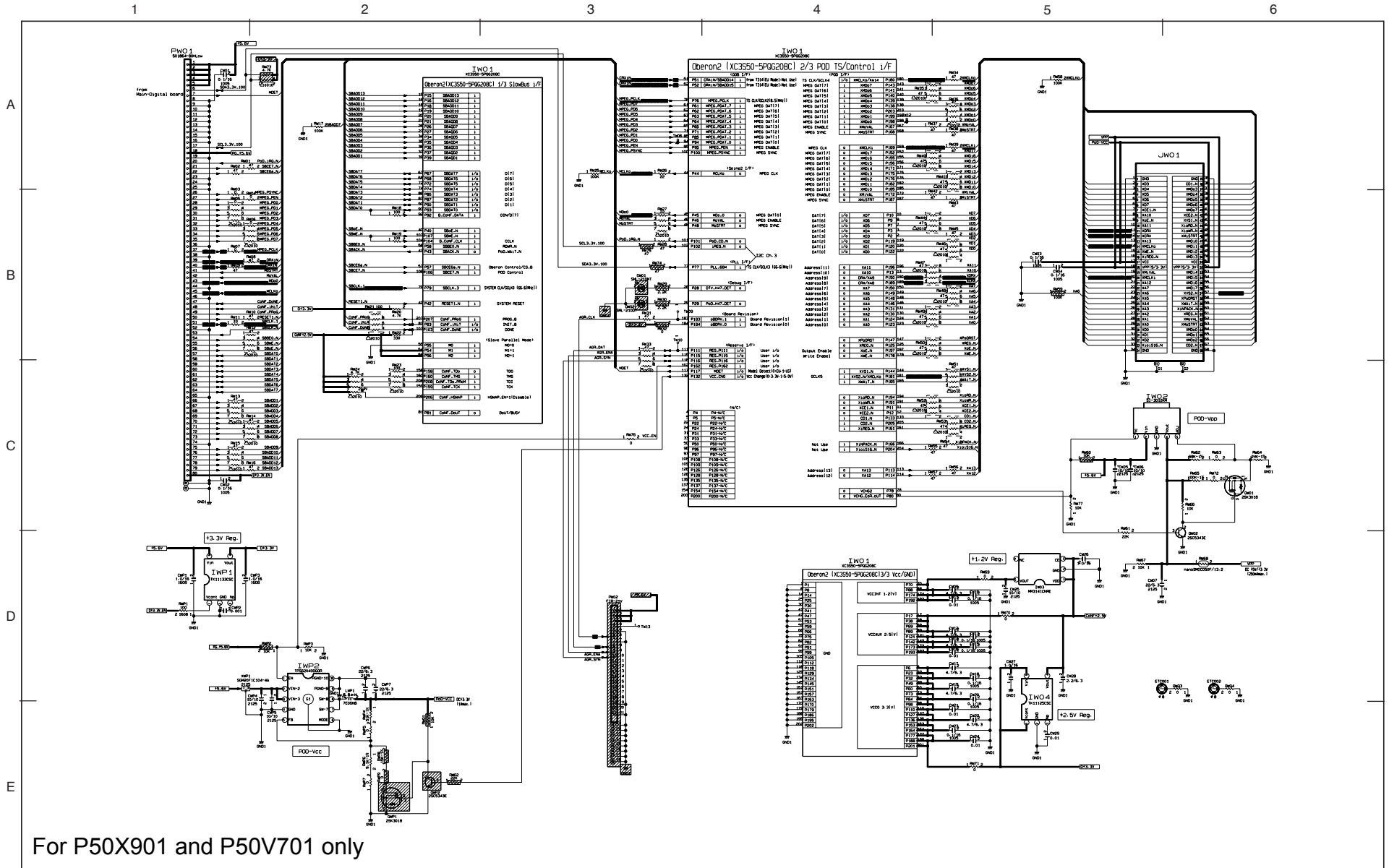


- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

LED

BASIC CIRCUIT DIAGRAM

PRODUCT SAFETY NOTE: Components marked with a  and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.



For P50X901 and P50V701 only

- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

POD

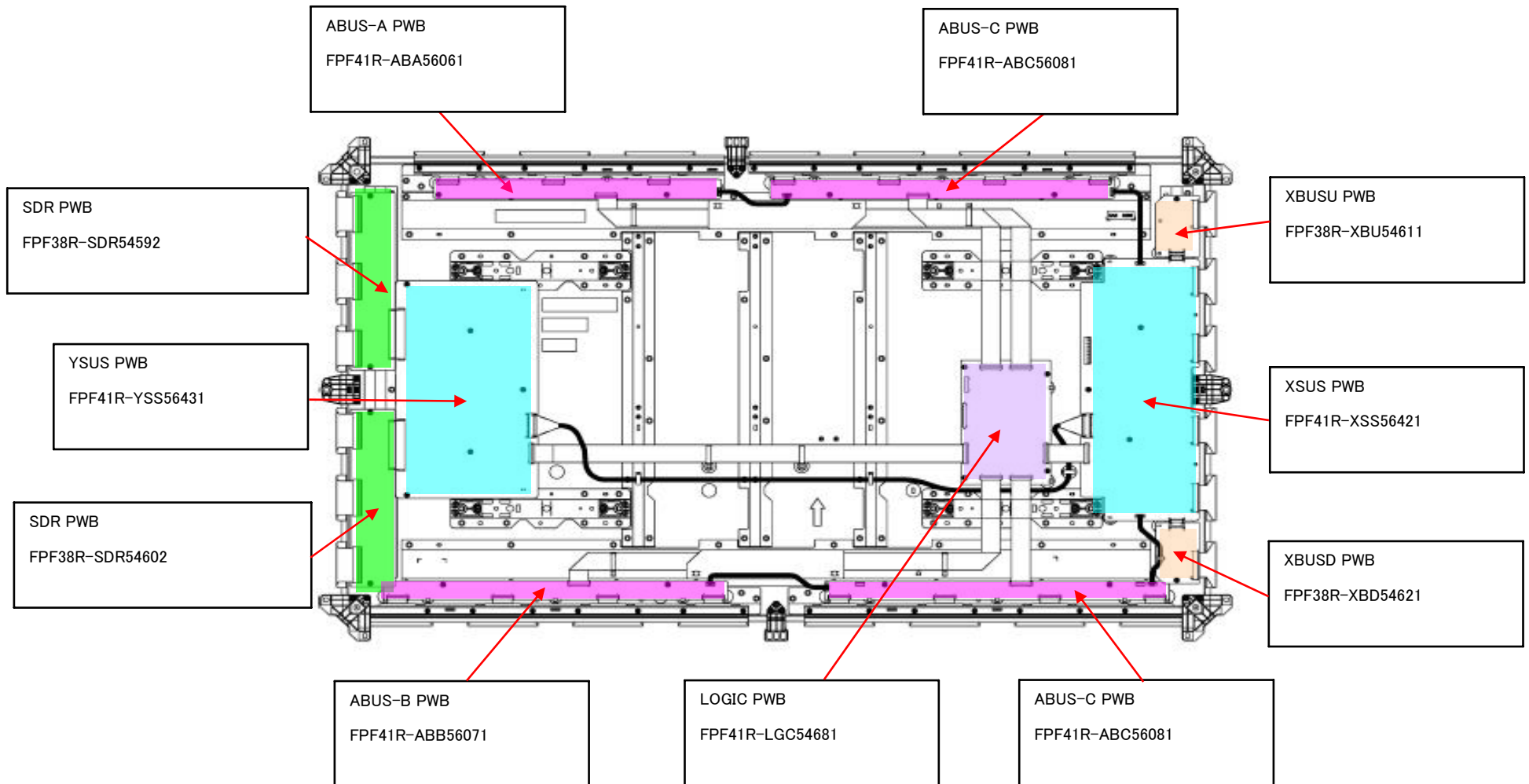
Parts List

P50S601	
DD00941	PPF50C240135UA-55
EK01933	WIRE (PROCESSED) JF04R0R021970
EV01841	POWER CORD 125V10A UL/CSA
EW08433	8P PLUG CODE L=350MM
FPF38R-XBD54621	XBUS (D)
FPF38R-XBU54611	XBUS (U)
FPF38RADM019F03	ADM
FPF41R-ABA56061	ABUS (A)
FPF41R-ABB56071	ABUS (B)
FPF41R-ABC56081	ABUS
FPF41R-CBL02381	SIGNAL CABLE
FPF41R-CBL02382	SIGNAL CABLE
FPF41R-CBL02383	SIGNAL CABLE
FPF41R-CBL02384	SIGNAL CABLE
FPF41R-CBL02385	SIGNAL CABLE
FPF41R-CBL02386	SIGNAL CABLE
FPF41R-CBL27301	POWER CABLE
FPF41R-CBL27311	POWER CABLE
FPF41R-CBL27312	POWER CABLE
FPF41R-CBL27313	POWER CABLE
FPF41R-LGC54681	LOGIC Board
FPF41R-XSS56421	XSUS Board
FPF41R-YSS56431	YSUS Board
GK01652	SPEAKER-04X15D
GS00696	DC MOTOR:DC2406KL-04W-B29-T0E
GS00697	DC MOTOR:DC2406KL-04W-B29-T0E
HA02202	POW-MPF7726
HL02403	REMOTE CONTROL UNIT CLU-4373A
JP55124	DW3F TERMINAL PWB (SUB-DIGI)
JP55134	DW3 FILTER PWB
JP55153	PSA DW3-C MAIN-DIG.
KS22255	50SC01MRT_EM41%VE_F.FILTER
PC07042	DW2 POWER BUTTON ASS Y
PC07071	DW3 POW BTN-50 SHAFT
PH40153	DW2 FR CONT KEY US
PH41211	DW3 CONT PLT 50U
PH41771	DW3 P50U SP GRILL R
PH41772	DW3 P50U SP GRILL L
PH41781	DW3 P50U CONTROL DOOR
PH43353	DW3 50TP2 DECO BEZEL
PH43572	DW3_50US_SV_DOOR_SHEET
PH43771	DW3 50 SV SP-SHEET L
PH43772	DW3 50 SV SP-SHEET R
PU00961	DW2 50 HITACHI BADGE
QA03713	DW3 50US-X BACK COVER
QD56864	P50S601 F-COSMETICS
QJ03754	DW3 50 STAND ASSY U
QR71591	S601 INST. BOOK
UE27036	DW3F CHASSIS ASSY

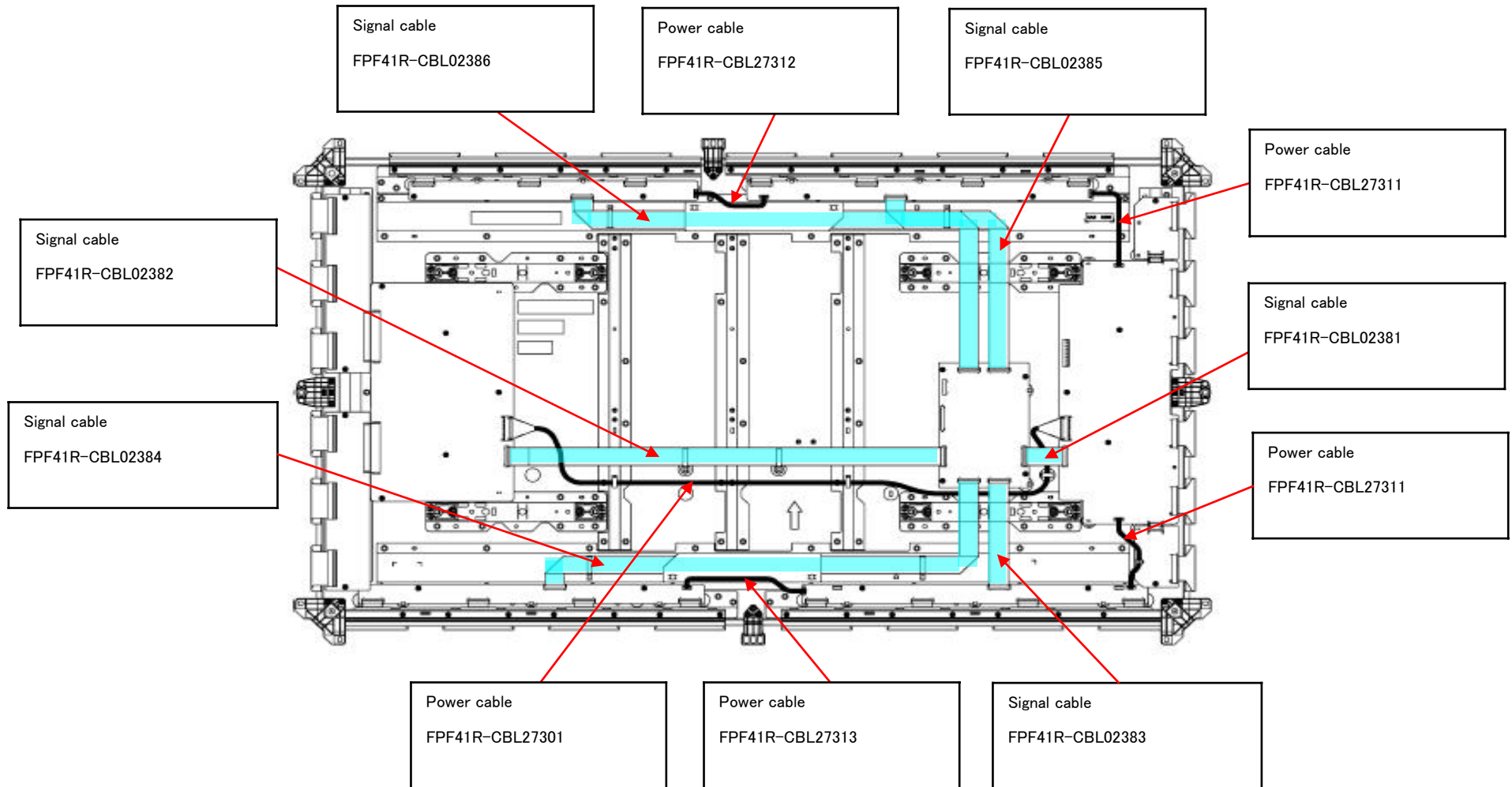
P50V701	
DD00941	PPF50C240135UA-55
EF27632	CONNECTOR CABLE CO-51C-C0R5S40
EK01901	80P FFC CABLE L=***MM UL20861
EK01933	WIRE (PROCESSED) JF04R0R021970
EP00411	AC INLET SK-1015(F1-0)
EV01841	POWER CORD 125V10A UL/CSA
EW08433	8P PLUG CODE L=350MM
EY01641	IR MOUSE CABLE
FPF38R-XBD54621	XBUS (D)
FPF38R-XBU54611	XBUS (U)
FPF38RADM019F03	ADM
FPF41R-ABA56061	ABUS (A)
FPF41R-ABB56071	ABUS (B)
FPF41R-ABC56081	ABUS
FPF41R-CBL02381	SIGNAL CABLE
FPF41R-CBL02382	SIGNAL CABLE
FPF41R-CBL02383	SIGNAL CABLE
FPF41R-CBL02384	SIGNAL CABLE
FPF41R-CBL02385	SIGNAL CABLE
FPF41R-CBL02386	SIGNAL CABLE
FPF41R-CBL27301	POWER CABLE
FPF41R-CBL27311	POWER CABLE
FPF41R-CBL27312	POWER CABLE
FPF41R-CBL27313	POWER CABLE
FPF41R-LGC54681	LOGIC Board
FPF41R-XSS56421	XSUS Board
FPF41R-YSS56431	YSUS Board
GK01652	SPEAKER-04X15D
GS00696	DC MOTOR:DC2406KL-04W-B29-T0E
GS00697	DC MOTOR:DC2406KL-04W-B29-T0E
GX00731	MAGNET K5CRC12X15X7-MG2
HA02202	POW-MPF7726
HL02404	REMOTE CONTROL UNIT CLU-4374A
JP55141	DW3 POD PWB
JP55154	PSA DW3-D MAIN-DIG.
JP56845	PSA FC8 (DW3 US)
KS22254	50SC01MRT_EM36%VE_F.FILTER
PC07042	DW2 POWER BUTTON ASS Y
PH38111	DW2 PC CARD HOLDER
PH38121	DW2 CARD COVER
PH40153	DW2 FR CONT KEY US
PH41212	DW3 CONT PLT 50U 501
PH41771	DW3 P50U SP GRILL R
PH41772	DW3 P50U SP GRILL L
PH41781	DW3 P50U CONTROL DOOR
PH43353	DW3 50TP2 DECO BEZEL
PU00961	DW2 50 HITACHI BADGE
QA03713	DW3 50US-X BACK COVER
QD56865	P50V701 F-COSMETICS
QJ03754	DW3 50 STAND ASSY U
QR71601	V701 INST. BOOK
UE27034	DW3D CHASSIS ASSY

P50X901	
DD00941	PPF50C240135UA-55
EK01901	80P FFC CABLE L=***MM UL20861
EP00411	AC INLET SK-1015(F1-0)
EV01841	POWER CORD 125V10A UL/CSA
EW08433	8P PLUG CODE L=350MM
FPF38R-XBD54621	XBUS (D)
FPF38R-XBU54611	XBUS (U)
FPF38RADM019F03	ADM
FPF41R-ABA56061	ABUS (A)
FPF41R-ABB56071	ABUS (B)
FPF41R-ABC56081	ABUS
FPF41R-CBL02381	SIGNAL CABLE
FPF41R-CBL02382	SIGNAL CABLE
FPF41R-CBL02383	SIGNAL CABLE
FPF41R-CBL02384	SIGNAL CABLE
FPF41R-CBL02385	SIGNAL CABLE
FPF41R-CBL02386	SIGNAL CABLE
FPF41R-CBL27301	POWER CABLE
FPF41R-CBL27311	POWER CABLE
FPF41R-CBL27312	POWER CABLE
FPF41R-CBL27313	POWER CABLE
FPF41R-LGC54681	LOGIC Board
FPF41R-XSS56421	XSUS Board
FPF41R-YSS56431	YSUS Board
GK01652	SPEAKER-04X15D
GS00696	DC MOTOR:DC2406KL-04W-B29-T0E
GS00697	DC MOTOR:DC2406KL-04W-B29-T0E
HA02202	POW-MPF7726
HL01864	RCT- CLU123S
HL02402	REMOTE CONTROL UNIT CLU-4372A
JP55154	PSA DW3-D MAIN-DIG.
JP56845	PSA FC8 (DW3 US)
KS22256	50SC01MRT_EM36%LVE_F.FILTER
MF02414	GASKET 10-2-40 J1G
NA88102	DW3 50US BEZEL FRAME BOTTOM
NA90811	DW3 50US BEZEL FRAME R
NA90812	DW3 50US BEZEL FRAME L
NA91161	DW3 50US BEZEL FRAME TOP
NA91491	DW2 50 FAN COVER
NA91961	DW2 50 KEY SUPPORT
NA93762	DW3 50XR MAIN FRAME
NA95813	DW3 50X-U FAN BS MTL
NA95852	DW3 50XR FAN BASE A2
PC07042	DW2 POWER BUTTON ASS Y
PC07071	DW3 POW BTN-50 SHAFT
PH38111	DW2 PC CARD HOLDER
PH40153	DW2 FR CONT KEY US
PH41213	DW3 CONT PLT 50U 901
PH43521	DW3 50 SIDE BEZEL R
PH43522	DW3 50 SIDE BEZEL L
PM32521	DW3 50 AL DECO T (X)
PM32531	DW3 50 AL DECO B (X)
QA03713	DW3 50US-X BACK COVER
QJ03754	DW3 50 STAND ASSY U
QR71581	X901 INST. BOOK

PART NUMBER OF PANEL BOARDS



PART NUMBER OF PANEL CONNECTORS



HITACHI