

Service Manual

ORDER NO.
ARP3468

PLASMA TELEVISION

PDP-508XG

PDP-508XDA

PDP-508XC

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
PDP-508XG	DLFT	AC 110 V to 240 V	
PDP-508XDA	YP	AC 240 V	
PDP-508XC	WA5	AC 220 V to 240 V	

This service manual should be used together with the following manual(s):

Model	Order No.	Remarks
PDP-5080XA/WYV5	ARP3445	EXPLODED VIEWS, BLOCK DIAGRAM, ADJUSTMENT, etc

For SPECIFICATIONS and PANEL FACILITIES, refer to the operating instructions.

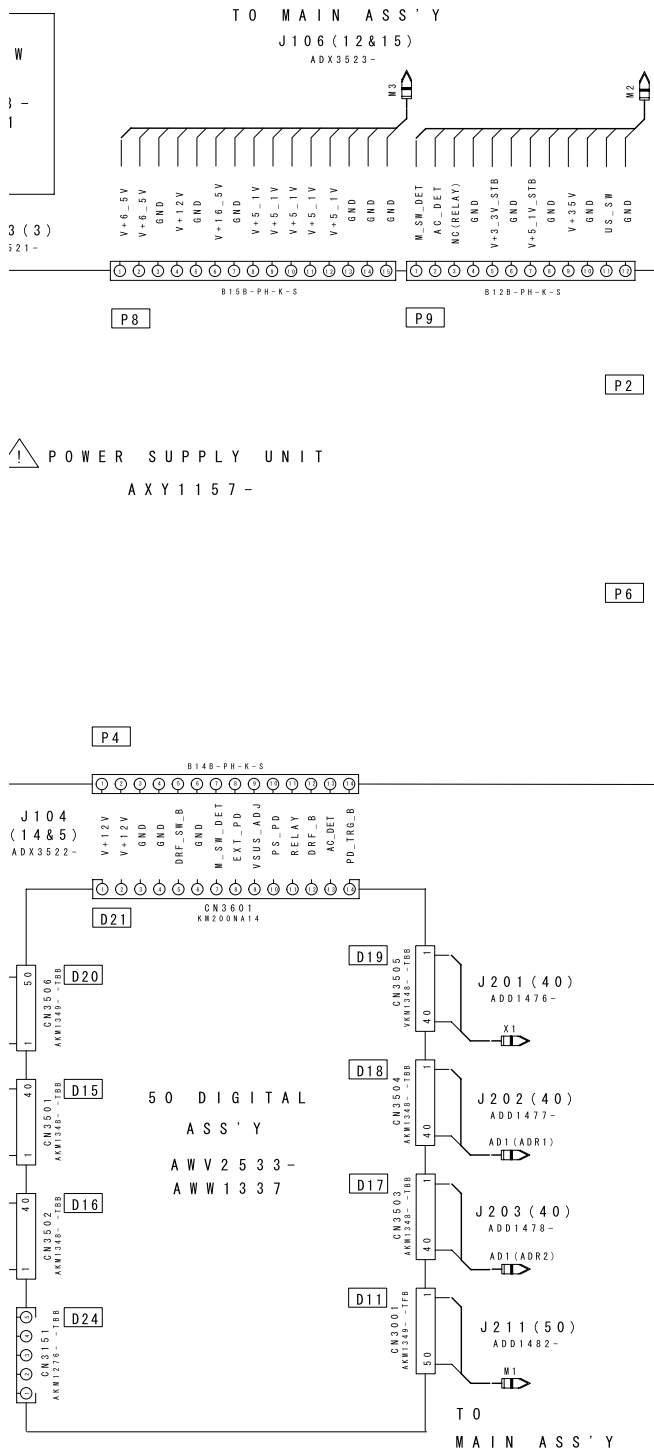
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● When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".

● The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

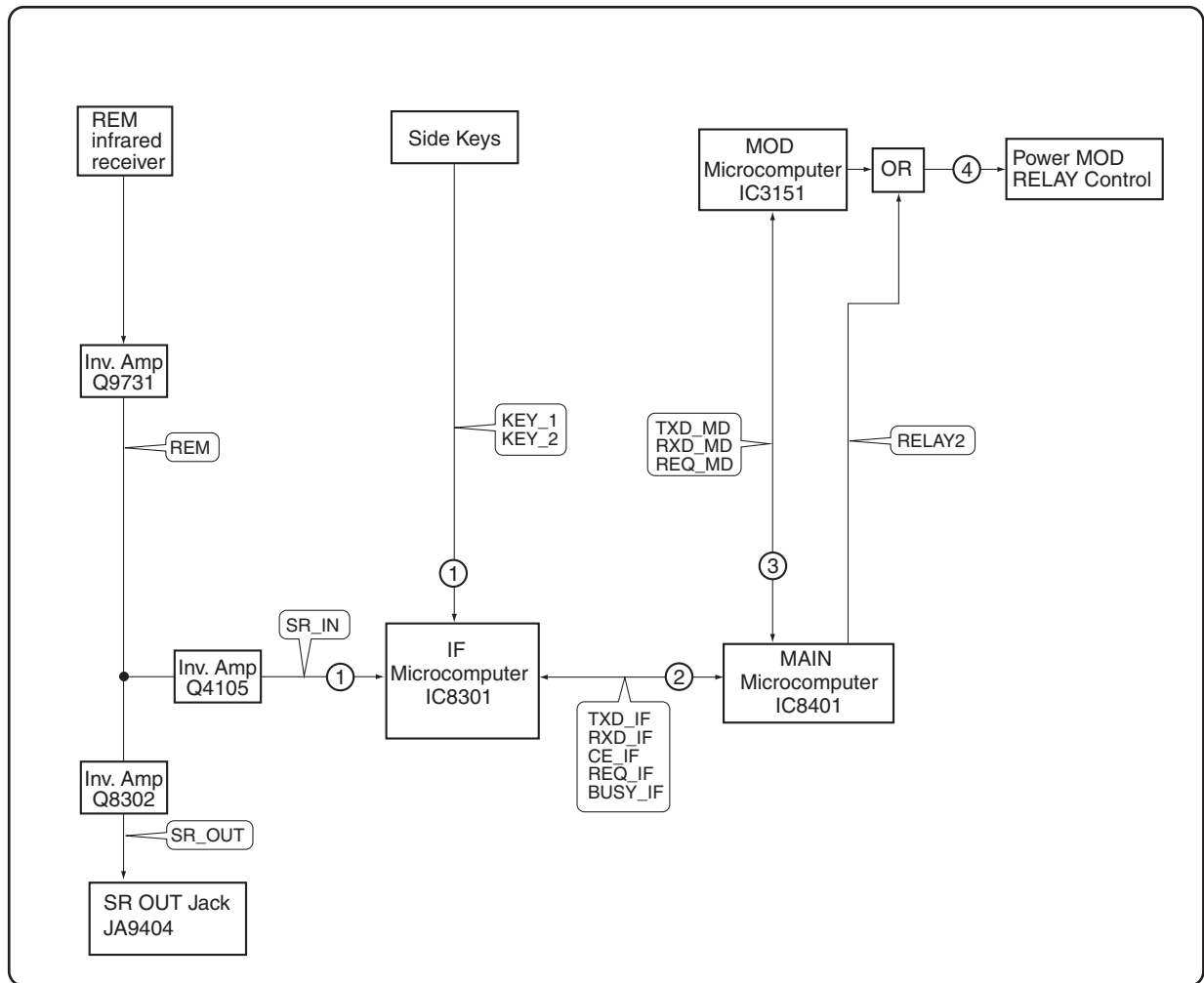
1 CN3001 D11 → CN4101 M1

S3	1-50. GND	26-25. GND
S4	2-49. LVDS_ON	27-24. LVDS_E0+
D	3-48. RED_WD	28-23. LVDS_ED-
G	4-47. RXD_WD	29-22. GND
D	5-46. TXD_WD	30-21. LVDS_D0+
ADJ	6-45. GND	31-20. LVDS_D0-
T_ADJ	7-44. GND	32-19. GND
S1_2_ADJ	8-43. GND	33-18. LVDS_CLK0+
S3_ADJ	9-42. GND	34-17. LVDS_CLK0-
S4_ADJ	10-41. GND	35-16. GND
D	11-40. GND	36-15. LVDS_C0+
PD	12-39. GND	37-14. LVDS_C0-
PD	13-38. GND	38-13. GND
PD	14-37. GND	39-12. LVDS_B0+
PD	15-36. GND	40-11. LVDS_B0-
PD	16-35. GND	41-10. GND
PD	17-34. GND	42-9. LVDS_A0+
PD	18-33. GND	43-8. LVDS_A0-
PD	19-32. GND	44-7. GND
PD	20-31. GND	45-6. GND
PD	21-30. GND	46-5. MSEL
PD	22-29. GND	47-4. RELAY2
PD	23-28. GND	48-3. V+3_3V_UCOM
PD	24-27. GND	49-2. MODE
PD	25-26. GND	50-1. GND

The ⚠ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

OVERALL DIAGRAM
PDP-508XDA
PDP-508XG
PDP-508XC

4.1.2 POWER ON SEQUENCE



- ① : The remote control (or KEY) signal is input to the IF microcomputer.
- ② : The IF microcomputer sends the operation data of the remote control unit (or KEY) to the main microcomputer.
- ③ : The main microcomputer issues a startup command (PON) to the MOD microcomputer.
- ④ : The relay is controlled with logical OR interpretation of control signals by the main microcomputer and module (MOD) microcomputer.

4.4 NON-FAILURE INFORMATION

4.4.1 INFORMATION ON SYMPTOMS THAT DO NOT CONSTITUTE FAILURE

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 3 or 4 or 5 signal is not correct.	The color setting for INPUT 3 or 4 or 5 is not compatible with that of the output equipment. Check whether the color setting is YPbPr or RGB.
The video signal to INPUT 3 or 4 or 5 is not displayed, and a message is displayed.	A unsupported video signal is input.
The audio signal input to the INPUT 3 is not output. No HDMI signal is input.	The audio setting for INPUT 3 is any setting and a video signal is not input. If the audio setting is any setting to output an analog audio signal, the HDMI signal must be input. (If a DVI device is to be connected, use a DVI-HDMI conversion cable.) If the HDMI video signal is not input, the analog audio signal is not output.
No sound of signals to INPUT 3 or 4 or 5 is output.	The setting on the side of the HDMI output equipment is wrong. (Example: Dolby Digital)
The 1080p input signal is not displayed properly or at all, although the 1080i input signal is displayed properly.	Check that the connected cable supports HDMI Category 2. (As the clock frequency for the 1080p signal is triple that for the 1080i signal, signal degradation caused by a cable must not be neglected. A cable supporting HDMI Category 2 can be used for the 1080p signal. Although some conventional cables can support the 1080p signal, some others cannot.)
MONITOR video output	
The video output signal from the MONITOR output is deteriorated. Or when the video output signal from the MONITOR output is recorded, its playback picture is deteriorated.	The video signal output from the MONITOR output is Macrovision protected.
The video signal is not output when the component signal is input to INPUT 1 or 2.	The video signal is not output from the MONITOR output when the component signal is selected.
The video signal is not output when the video signal is input to INPUT 3 or 4 or 5.	The video signal is not output from the MONITOR output 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 output is synchronized with the video output signal from the MONITOR output.
DIGITAL OUT (PDP-508XDA only)	
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 digital audio 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 and no-operation off functions are effective only if video (composite, S video, component, HDMI [excluding PC]) input or TV input is selected.
The no-operation off function is not activated.	
Power management does not function.	Power Management is effective only while an analog PC signal is being input. It is not effective with HDMI-PC signal input.
The AUTO SETUP function is not activated.	The Auto Setup function is effective only while an analog PC signal is being input. This function does not work if an analog PC signal is not input, even if the INPUT PC is selected.
The audio signal from the PC is not output.	Wrong connection of the cable to the SR connector is suspected.
Control via the SR connector is not possible.	Wrong connection of the cable to the PC INPUT (AUDIO) 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.
The display position of the screen changes slightly while the screen is on.	The orbiter function for minimizing the effects of phosphor burn is activated. Although the setting for this function can be changed on the Home menu, retaining the factory setting is strongly recommended.
The video signal to the S video connector is not displayed.	The component video cable is connected to the same input function as for the S video (even if no signal is input to the component video connector, merely having something plugged in to the connector will result in judgment that a signal is being fed in and the component video connector takes priority). (Priority of connectors: component video > S video > composite video)
The video signal to the composite video connector is not displayed.	The S Video or component video cable is connected to the same input function as for the composite video. (Priority of connectors : component video > S video > composite video)

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.

5.2.2 OPTION

Operation item

No.	Function	Content	RS-232C
5.2.2.1	EDID WRITE MODE ⇔	DISABLE ⇔ ENABLE	---
5.2.2.2	CH PRESET ⇔	USER ⇔ FACTORY	---
5.2.2.3	AFT	For factory use	---
5.2.2.4	SYNC DET (+)	Exclusively used for technical analysis	---

5.2.2.1 EDID WRITE MODE <=>

Exclusively used for production line.

5.2.2.2 CH PRESET <=>

Exclusively used for production line.

5.2.2.3 AFT

Exclusively used for production line.

5.2.2.4 SYNC DET (+)

Exclusively used for technical analysis (details omitted).

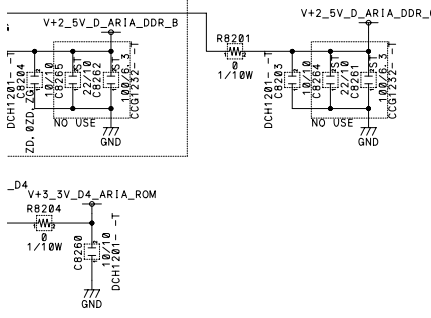
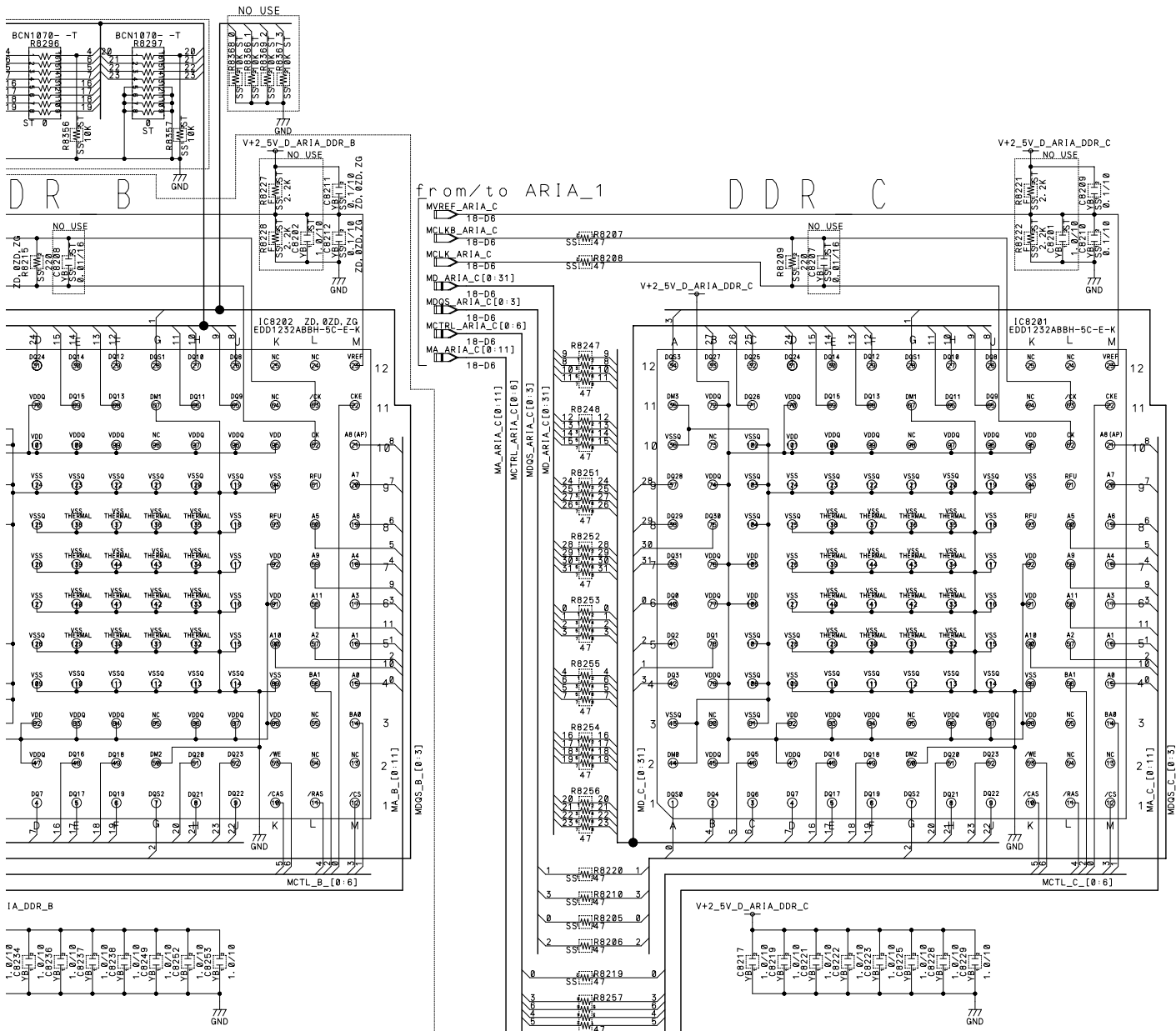
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ITEM	USED	VACANT	
		XGA	FHD
C	8201-8206 8207-8210 8211-8214 8215-8218 8219-8222 8223-8226 8227-8230 8231-8234 8235-8238 8239-8242 8243-8246 8247-8250 8251-8254 8255-8258 8259-8262 8263-8266 8267-8270 8271-8274 8275-8278 8279-8282 8283-8286 8287-8290 8291-8294 8295-8298 8299-8302 8303-8306 8307-8310 8311-8314 8315-8318 8319-8322 8323-8326 8327-8330 8331-8334 8335-8338 8339-8342 8343-8346 8347-8350 8351-8354 8355-8358 8359-8362 8363-8366 8367-8370 8371-8374 8375-8378 8379-8382 8383-8386 8387-8390 8391-8394 8395-8398 8399-8402 8403-8406 8407-8410 8411-8414 8415-8418 8419-8422 8423-8426 8427-8430 8431-8434 8435-8438 8439-8442 8443-8446 8447-8450 8451-8454 8455-8458 8459-8462 8463-8466 8467-8470 8471-8474 8475-8478 8479-8482 8483-8486 8487-8490 8491-8494 8495-8498 8499-8502 8503-8506 8507-8510 8511-8514 8515-8518 8519-8522 8523-8526 8527-8530 8531-8534 8535-8538 8539-8542 8543-8546 8547-8550 8551-8554 8555-8558 8559-8562 8563-8566 8567-8570 8571-8574 8575-8578 8579-8582 8583-8586 8587-8590 8591-8594 8595-8598 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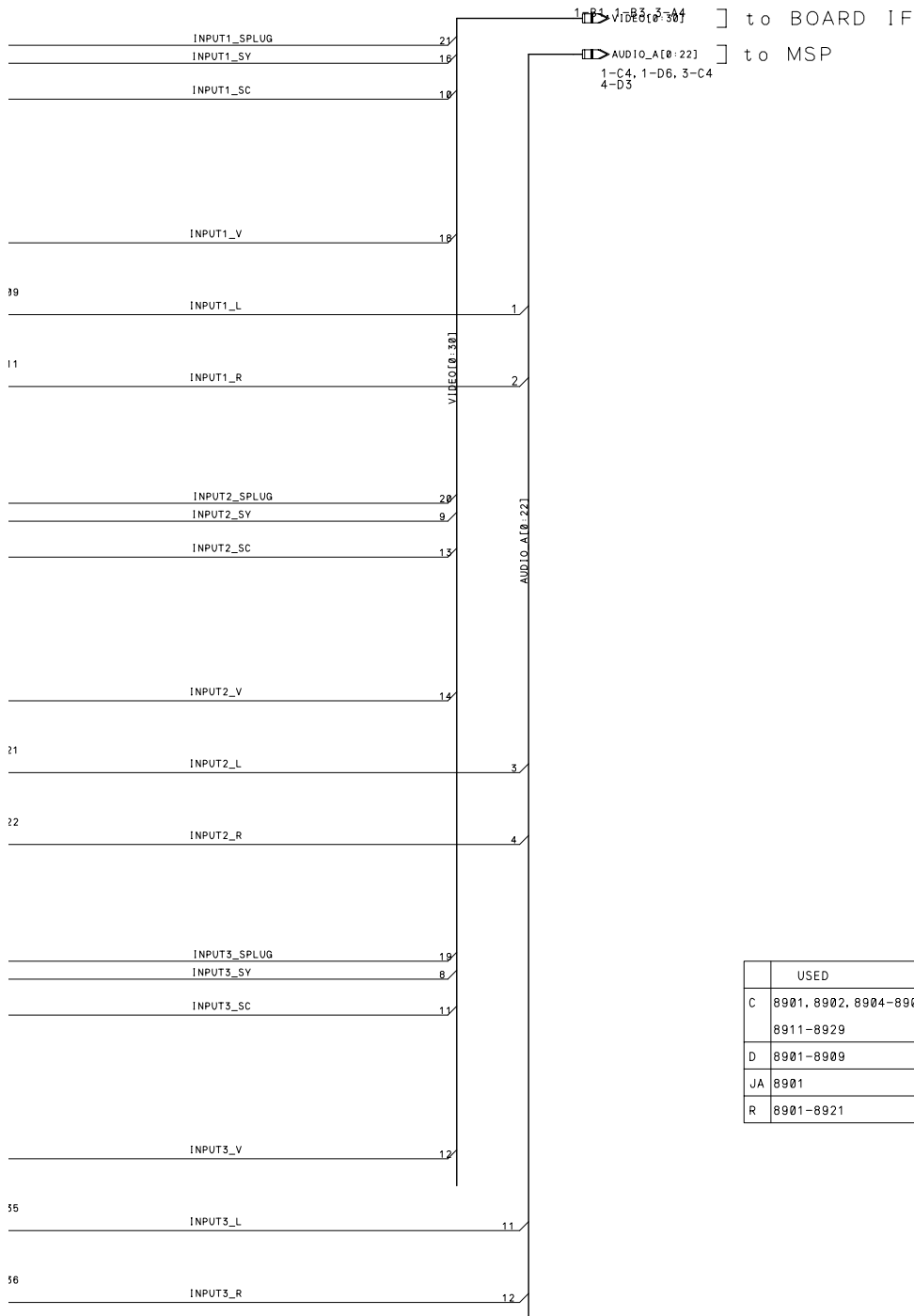
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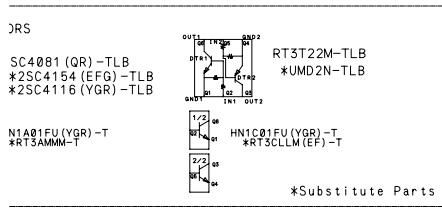
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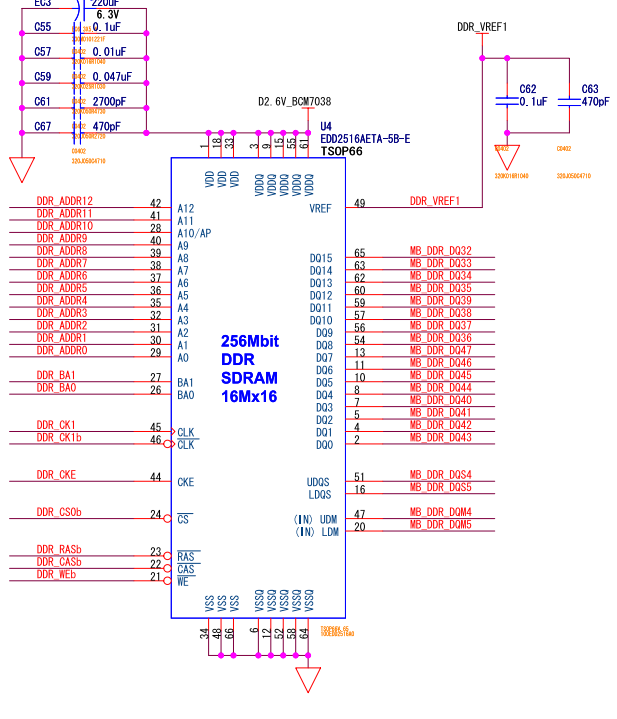
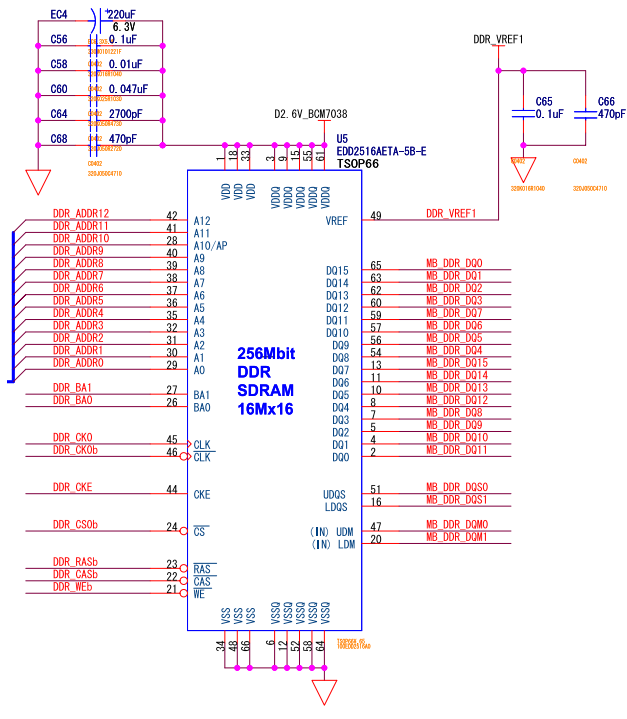
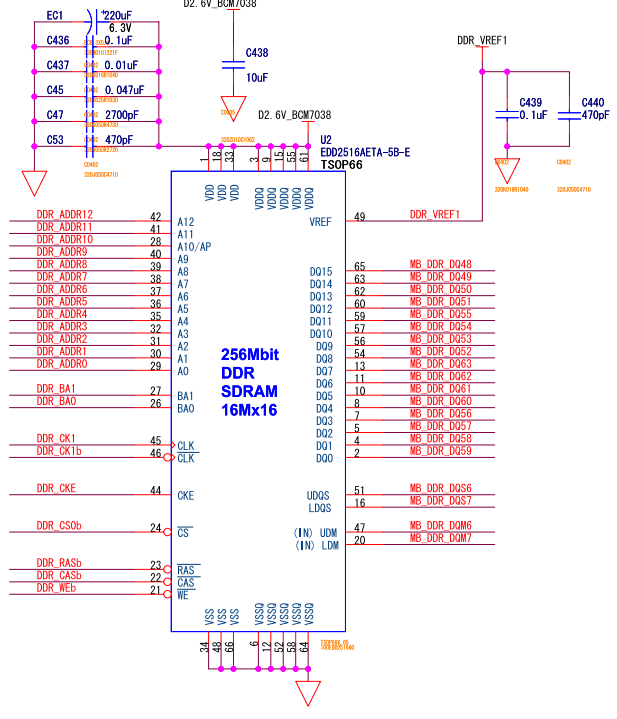
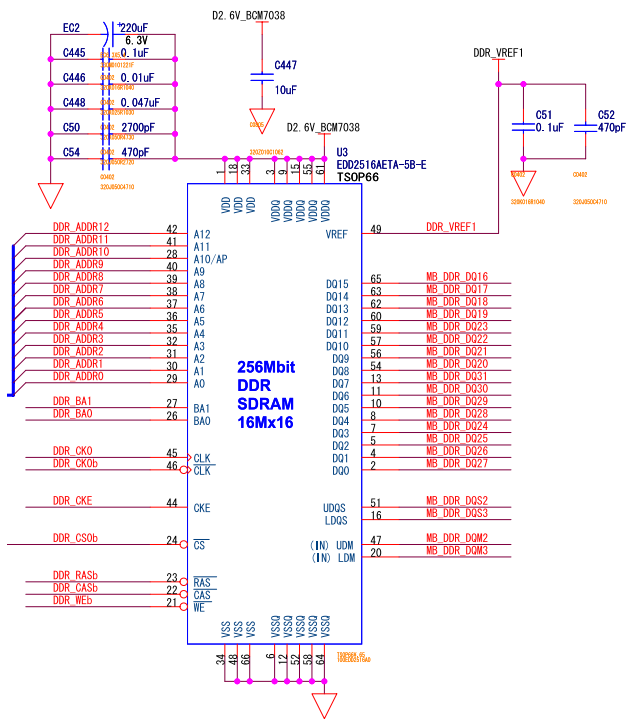
F



	USED	VACANT
C	8901, 8902, 8904-8909, 8911-8929	
D	8901-8909	8901-8909
JA	8901	
R	8901-8921	



EUKUGO ASS'Y (IBD) (2/8)
TANSHI ASS'Y
10-1
AWV2468-
AWW1255
A02W1255



DDR-SDRAM

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PDP-508XG

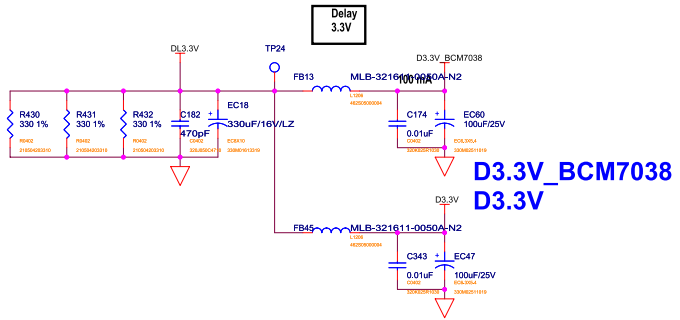
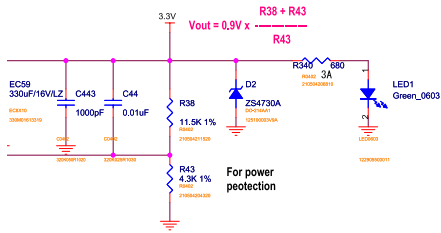
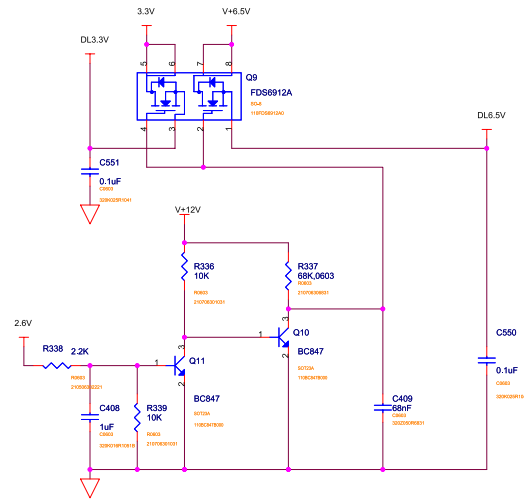
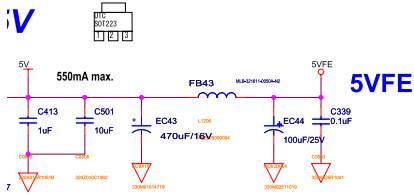
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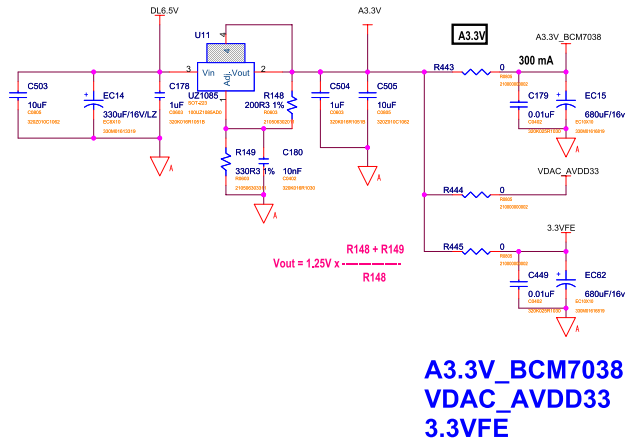
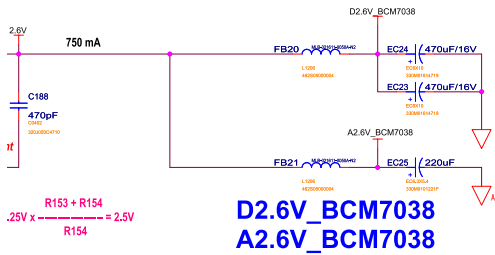
8

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DL6.5V ----> A3.3V

DDR_VREF1
DDR_VREF2



A3.3V_BCM7038
VDAC_AVDD33
3.3VFE

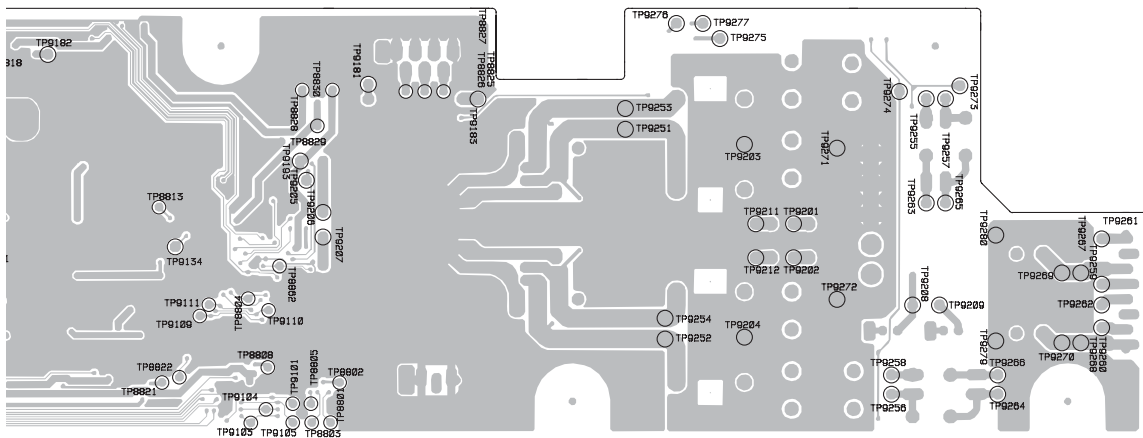
POWER

MTB TANSHI Ass'y			MTB MAIN Ass'y		
No.	Name	Voltage (V)	Name	No.	
1	GND	0	GND	1	
2	V+8V AU	8.0	V+8V AU	2	
3	GND	0	GND	3	
4	V+3 3V AU A	3.3	V+3 3V AU A	4	
5	GND	0	GND	5	
6	V+3 3V AU D	3.3	V+3 3V AU D	6	
7	GND	0	GND	7	

MTB TANSHI Ass'y			MTB MAIN Ass'y		
No.	Name	Voltage (V)	Name	No.	
1	GND	0	GND	40	
2	IO DET	0	IO DET	39	
3	A NG B	2.8	A NG B	38	
4	OTW	3.3	OTW	37	
5	RST MSP	3.3	RST MSP	36	
6	AC A MUTE	0	AC A MUTE	35	
7	SDA AV	3.4	SDA AV	34	
8	SCL AV	3.4	SCL AV	33	
9	GND	0	GND	32	
10	I2S SDATA EMMA(DTB)	0to3.3	I2S SDATA EMMA(DTB)	31	
11	I2S LRCLK EMMA(DTB)	0to3.3	I2S LRCLK EMMA(DTB)	30	
12	I2S_BCLK EMMA(DTB)	0to3.3	I2S_BCLK EMMA(DTB)	29	
13	GND	0	GND	28	
14	I2S_BCLK HDMI	0to3.3	I2S_BCLK HDMI	27	
15	I2S_LRCLK HDMI	0to3.3	I2S_LRCLK HDMI	26	
16	I2S_SDATA HDMI	0to3.3	I2S_SDATA HDMI	25	
17	GND	0	GND	24	
18	SPDIF EMMA(DTB)	0to3.3	SPDIF EMMA(DTB)	23	
19	GND	0	GND	22	
20	GND	0	GND	21	
21	GND	0	GND	20	
22	AC HP MUTE	0	AC HP MUTE	19	
23	GND	0	GND	18	
24	MON MUTE	0	MON MUTE	17	
25	GND	0	GND	16	
26	GND	0	GND	15	
27	HP PLUG	2.9	HP PLUG	14	
28	INPUT3 SPLUG	4.9	INPUT3 SPLUG	13	
29	INPUT2 SPLUG	4.9	INPUT2 SPLUG	12	
30	INPUT1 SPLUG	4.9	INPUT1 SPLUG	11	
31	GND	0	GND	10	
32	INPUT1 PLUG	0	INPUT1 PLUG	9	
33	INPUT2 PLUG	0	INPUT2 PLUG	8	
34	GND	0	GND	7	
35	AIR SIF	0to5.0	AIR SIF	6	
36	GND	0	GND	5	
37	N.C.	-	N.C.	4	
38	V+3.3V STB	3.3	V+3.3V STB	3	
39	N.C.	0	N.C.	2	
40	V+5V A	5.0	V+5V A	1	

MTB TANSHI Ass'y			MTB MAIN Ass'y		
No.	Name	Voltage (V)	Name	No.	
1	GND	0	GND	50	
2	AIR SIF	0to5.0	AIR SIF	49	
3	GND	0	GND	48	
4	(AIR_L)	2Vrms	(AIR_L)	47	
5	GND	0	GND	46	
6	(AIR_R)	2Vrms	(AIR_R)	45	
7	GND	0	GND	44	
8	INPUT1_Pr	0.7Vp-p	INPUT1_Pr	43	
9	GND	0	GND	42	
10	INPUT1_Pb	0.7Vp-p	INPUT1_Pb	41	
11	GND	0	GND	40	
12	INPUT1_Y	1.0Vp-p	INPUT1_Y	39	
13	GND	0	GND	38	
14	INPUT2_Pr	0.7Vp-p	INPUT2_Pr	37	
15	GND	0	GND	36	
16	INPUT2_Pb	0.7Vp-p	INPUT2_Pb	35	
17	GND	0	GND	34	
18	INPUT2_Y	1.0Vp-p	INPUT2_Y	33	
19	GND	0	GND	32	
20	INPUT3_SY	1.0Vp-p	INPUT3_SY	31	
21	GND	0	GND	30	
22	INPUT2_SY	1.0Vp-p	INPUT2_SY	29	
23	GND	0	GND	28	
24	INPUT1_SC	0.286Vp-p	INPUT1_SC	27	
25	GND	0	GND	26	
26	INPUT3_SC	0.286Vp-p	INPUT3_SC	25	
27	GND	0	GND	24	
28	INPUT3_V	1.0Vp-p	INPUT3_V	23	
29	GND	0	GND	22	
30	INPUT2_SC	0.286Vp-p	INPUT2_SC	21	
31	GND	0	GND	20	
32	INPUT2_V	1.0Vp-p	INPUT2_V	19	
33	GND	0	GND	18	
34	GND	0	GND	17	
35	INPUT1_SY	1.0Vp-p	INPUT1_SY	16	
36	GND	0	GND	15	
37	MON_OUT	1.0Vp-p	MON_OUT	14	
38	GND	0	GND	13	
39	INPUT1_V	1.0Vp-p	INPUT1_V	12	
40	GND	0	GND	11	
41	SIDE_SC	0.286Vp-p	SIDE_SC	10	
42	GND	0	GND	9	
43	SIDE_SY	1.0Vp-p	SIDE_SY	8	
44	GND	0	GND	7	
45	SIDE_V	1.0Vp-p	SIDE_V	6	
46	SIDE_S2	0to5.0	SIDE_S2	5	
47	SIDE SPLUG	4.9	SIDE SPLUG	4	
48	V+3.3V UCOM	3.3	V+3.3V UCOM	3	
49	TEMP2	3.3	TEMP2	2	
50	GND	0	GND	1	

SIDE B



(ANP2201-A)

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