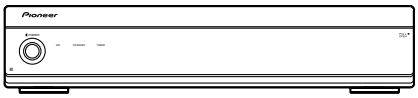
Pioneer sound.vision.soul

Service Manual



PDP-R05E

ORDER NO.
ARP3225

MEDIA RECEIVER

PDP-R05E
PDP-R05XE
PDP-R05FE

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

Model	Type	Power Requirement	Remarks
PDP-R05E	WYVI	AC220-240V	
PDP-R05E	WYVIXK	AC220-240V	
PDP-R05XE	WYVIXK	AC220-240V	
PDP-R05FE	WYVI	AC220-240V	
PDP-R05FE	WYVIXK	AC220-240V	

Please connect it to the PLASMA DISPLAY PDP-505PE or PDP-435PE for adjustment and operation inspection.

For details, refer to "Important Check Points for Good Servicing".

Confirm it

Serial No.

○○**WYVI** : □□**SS**######△△

○○**WYVIXK** : □□**UK**######△△

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936

T-ZZK NOV. 2004 printed in Japan

SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

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

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

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

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

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

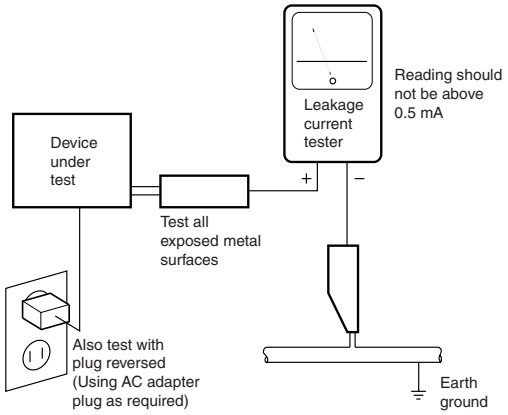
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



AC Leakage Test

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

2. PRODUCT SAFETY NOTICE

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

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

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

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

[Important Check Points for Good Servicing]

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

1. Product safety

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

① Use specified parts for repair.

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

② Do not perform modifications without proper instructions.

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

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

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

④ Make sure the screws are tightly fastened.

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

⑤ Make sure each connectors are correctly inserted.

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

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

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

⑦ Make sure screws and soldering scraps do not remain inside the product.

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

⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

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

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

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

⑩ Safe environment should be secured during servicing.

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

2. Adjustments

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

3. Lubricants, Glues, and Replacement parts

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

4. Cleaning

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

5. Shipping mode and Shipping screws

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

CONTENTS

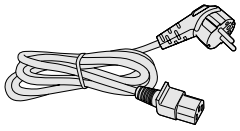
1. SPECIFICATIONS

Item			Media Receiver, Model:PDP-R05XE	Media Receiver, Model:PDP-R05E
Colour System		Analogue	PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60	
		Digital	PAL/SECAM	Not Applicable
TV Function (Analogue)	Receiving System		B/G,D/K,I,L/L '	
	Tuner	VHF/UHF	E2 –E69ch,F2 –F10ch,I21 –I69ch,IR A –IR Jch	
		CATV	Hyper-band,S1 –S41ch	
	Auto Channel Preset		99 ch,Auto Preset,Auto Label,Auto Sort	
	STEREO		NICAM/A2	
TV Function (Digital)	Receiving System		DVB-T (2K/8K COFDM)	
	Tuner	VHF/UHF	VHF Band III (170 to 230 MHz)and UHF Band IV,V (470 to 862 MHz)	Not Applicable
	Auto Channel Preset		999 ch,Auto Preset,Auto Label,Auto Sort	
	STEREO		MPEG layer I/II,Dolby Digital	
Terminals	Rear	INPUT 1	SCART (AV in,RGB in,TV out)	
		INPUT 2	SCART (AV in/out,S-VIDEO in,AV link *1)Component Video	
		INPUT 3	SCART (AV in/out,S-VIDEO in,RGB in,AV link *1),HDMI in	
		Antenna	75 Ω Din Type for VHF/UHF in (Analogue)	
			75 Ω Din Type for VHF/UHF in (Digital)	Not Applicable
			75 Ω Din Type for VHF/UHF out (Digital)	Not Applicable
	Front	INPUT 4	S-VIDEO,AV in	
		PC	Analogue RGB in,Audio in	
		PC CARD	PCMCIA Type II	
MONITOR OUTPUT Terminal(Rear)			S-VIDEO out,AV out	
SUB WOOFER OUTPUT Terminal (Rear)			Variable	
PHONES OUTPUT Terminal (Front)			16 –32 Ω recommended	
DIGITAL OUT Terminal			Digital audio output (Optical)	Not Applicable
COMMON INTERFACE (Rear)			CA Module	Not Applicable
Power Requirement			220 –240 V AC ,50/60 Hz,41 W (1.2 W Standby:Aerial Power Off)	220 –240 V AC ,50/60 Hz,35 W (0.4 W Standby)
Dimensions			420 (W) x 90 (H) x 295 (D)mm	
Weight			5.6 kg	4.9 kg

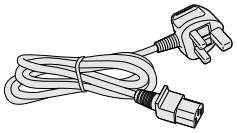
* 1 Switchable

• Design and specifications are subject to change without notice.

Power cord (2 m)



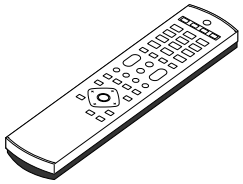
(For Europe, except U.K.and Eire)
(ADG1214)



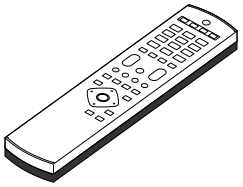
(For U.K. and Eire)

Only the power cord that is appropriate in your country or region is supplied.

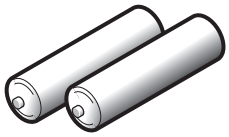
Remote control unit



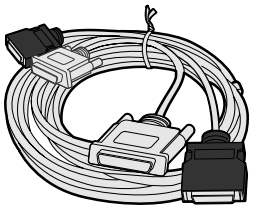
(for PDP-505XDE/435XDE)
(AXD1494)



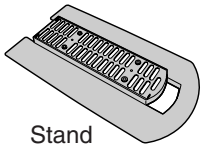
(for PDP-505HDE/435HDE)
(AXD1495)



AA size battery x 2
(Manganese battery)

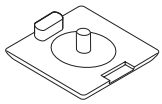


System cable (3 m)
(ADF1026)

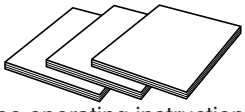


Stand
(AXG1013)

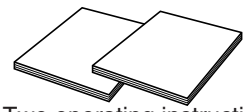
Screw x 4 (for stand)
(PMB40P120FTB)



Screw hole cap x 4
(AMR3363)



Three operating instructions
(for PDP-505XDE/435XDE)



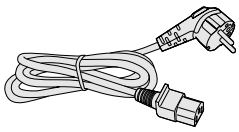
Two operating instructions
(for PDP-505HDE/435HDE)

Item			Media Receiver, Model:PDP-R05FE
Colour System			PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60
TV Function	Receiving System		B/G,D/K,I,L/L'
	Tuner	VHF/UHF	E2 –E69ch,F2 –F10ch,I21 –I69ch,IR A –IR Jch
		CATV	Hyper-band,S1 –S41ch
	Auto Channel Preset		99 ch,Auto Preset,Auto Label,Auto Sort
	STEREO		NICAM/A2
Terminals	Rear	INPUT 1	SCART (AV in,RGB in,TV out)
		INPUT 2	SCART (AV in/out,S-VIDEO in,AV link *1)Component Video
		INPUT 3	SCART (AV in/out,S-VIDEO in,RGB in,AV link *1),HDMI in
		Antenna	75 Ω Din Type for VHF/UHF in
	Front	INPUT 4	S-VIDEO,AV in
MONITOR OUTPUT Terminal (Rear)			S-VIDEO out,AV out
Power Requirement			220 –240 V AC ,50/60 Hz,27 W (0.4 W Standby)
Dimensions			420 (W) x 90 (H) x 295 (D)mm
Weight			4.8 kg

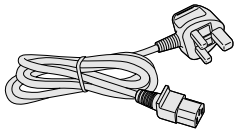
*1 Switchable

• Design and specifications are subject to change without notice.

Power cord (2 m)

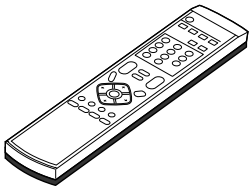


(For Europe, except U.K. and Eire)
(ADG1214)

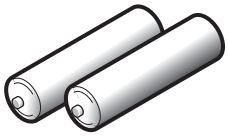


(For U.K. and Eire)

Only the power cord that is appropriate in your country or region is supplied.

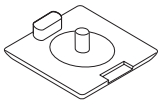


Remote control unit
(AXD1491)

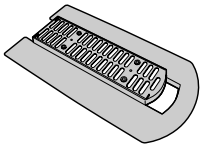


AA size battery x 2
(Manganese battery)

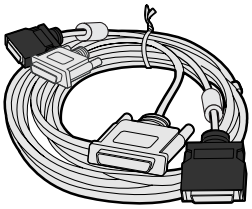
Screw x 4(for stand)
(PMB40P120FTB)



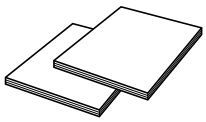
Screw hole cap x 4
(AMR3386)



Stand
(AXG1009)



System cable (3 m)
(ADF1026)

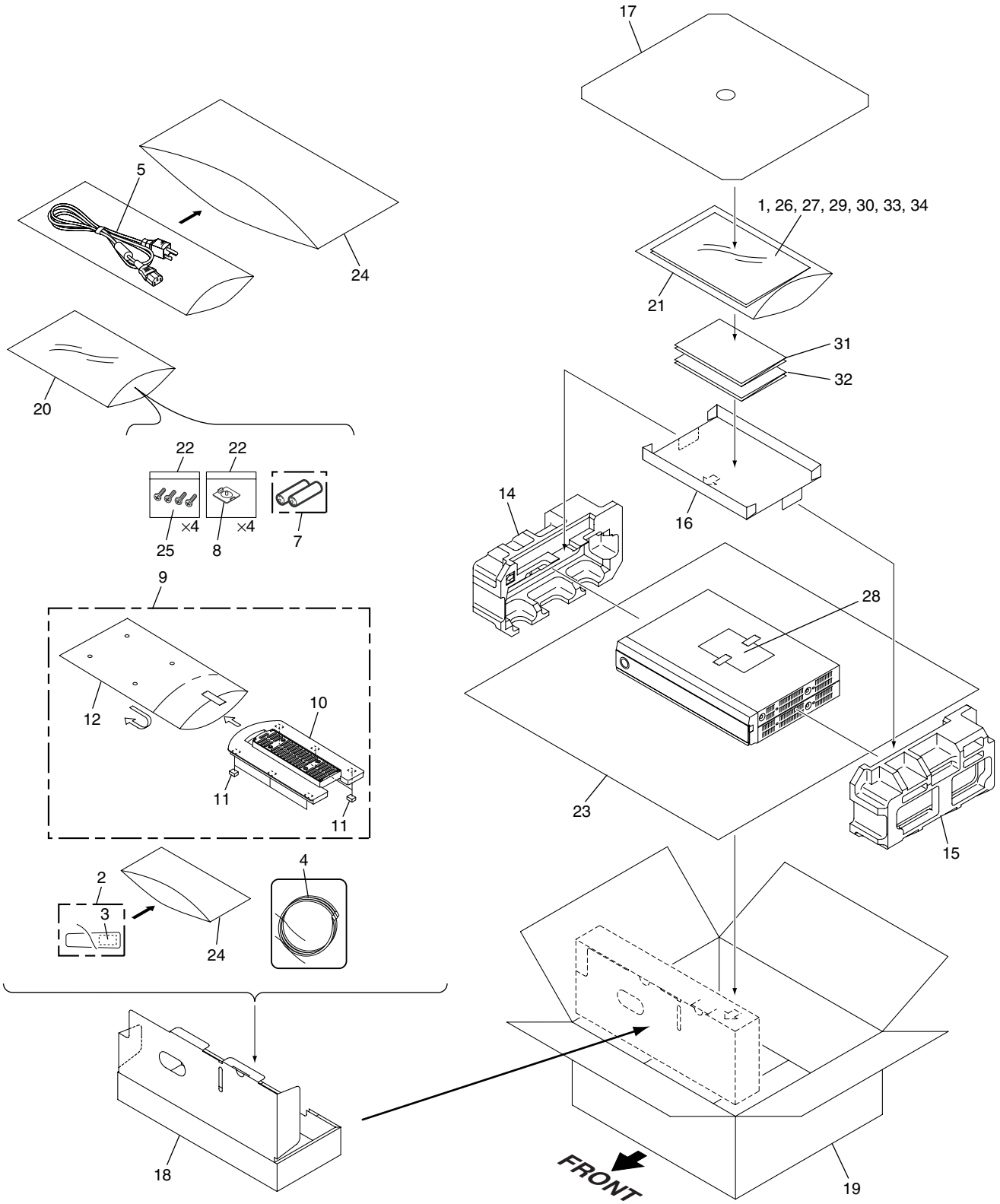


Two operating instructions

2. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare 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.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

2.1 PACKING SECTION



PACKING SECTION PARTS LIST

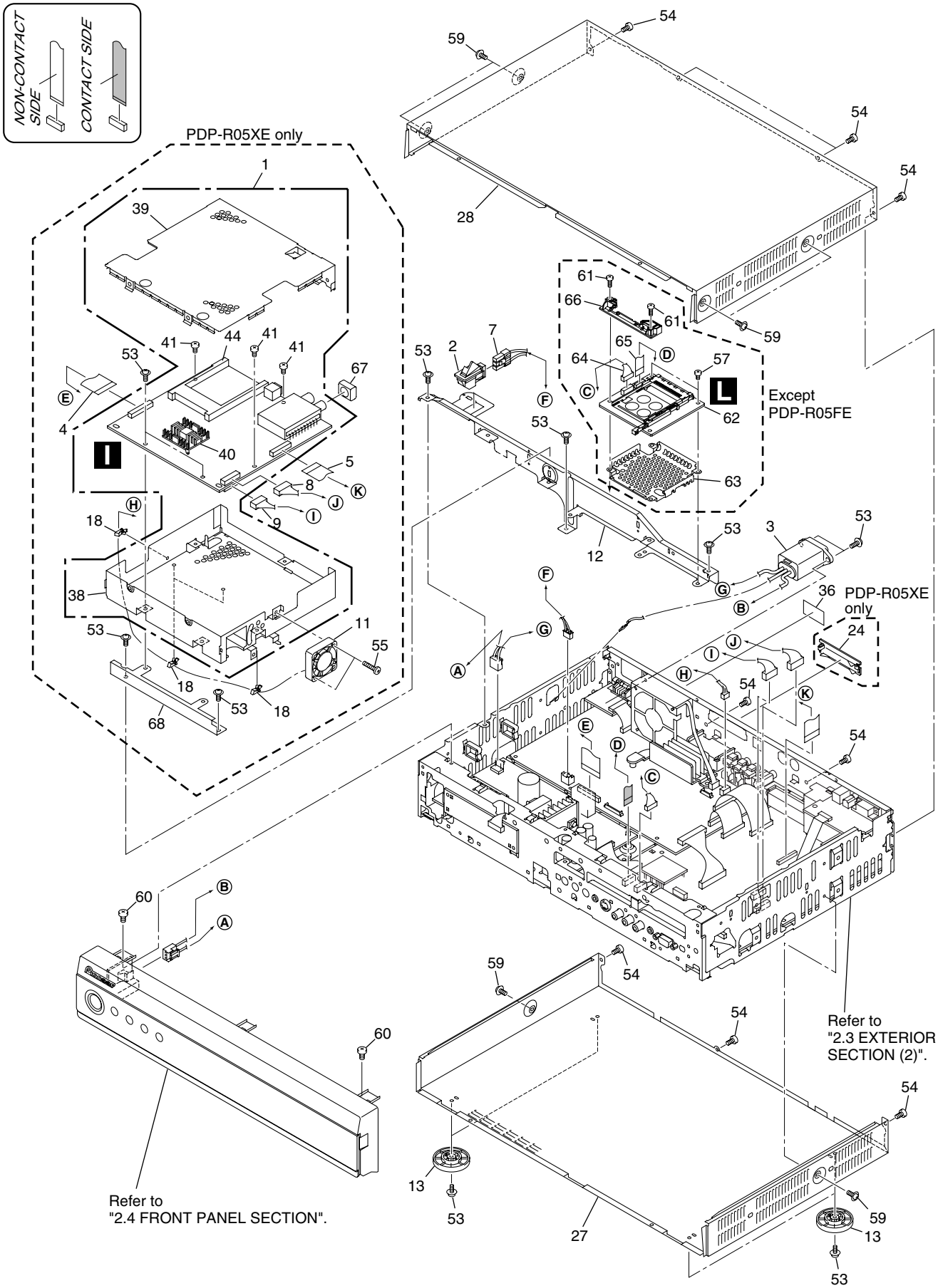
Mark	No.	Description	Part No.
	1	Operating Instructions	See Contrast table (2)
	2	Remote Control Unit	See Contrast table (2)
	3	Battery Cover	See Contrast table (2)
	4	System Cable (3m)	ADF1026
⚠	5	Power Cord	ADG1214
	6	••••••	
NSP	7	Dry Cell Battery (R6/AA)	VEM1031
	8	Screw Hole Cap	See Contrast table (2)
	9	Stand Assy	See Contrast table (2)
NSP	10	Stand	See Contrast table (2)
NSP	11	Stand Cushion	AEB1390
	12	Laminated Sheet Bag	AHG1334
	13	••••••	
	14	Pad L	See Contrast table (2)
	15	Pad R	See Contrast table (2)
	16	IM Pad	See Contrast table (2)
	17	Top Pad	See Contrast table (2)
	18	Accessory Box	See Contrast table (2)
	19	Carton	See Contrast table (2)
NSP	20	Literature Bag	AHG1303
	21	Vinyl Bag	AHG1340
	22	Vinyl Bag	AHG1337
	23	Laminated Sheet	AHG1350
	24	Air Capsule Bag	AHG1351
	25	Screw	PMB40P120FTB
	26	Operating Instructions	See Contrast table (2)
	27	Caution Card	ARM1223
	28	Caution Card	ARM1234
	29	Operating Instructions	See Contrast table (2)
	30	Errata	See Contrast table (2)
	31	User Card A	See Contrast table (2)
	32	User Card B	See Contrast table (2)
	33	Caution Manual	See Contrast table (2)
NSP	34	Block Diagram	See Contrast table (2)

(2) CONTRAST TABLE

PDP-R05E/WYVI, /WYVIXK, PDP-R05XE/WYVIXK, PDP-R05FE/WYVI and / WYVIXK are constructed the same except for the following:

Mark	No.	Description	PDP-R05E/ WYVI	PDP-R05E/ WYVIXK	PDP-R05XE/ WYVIXK	PDP-R05FE/ WYVI	PDP-R05FE/ WYVIXK
	1	Operating Instructions (English/French/German)	ARE1391	ARE1380	ARE1380	ARE1392	ARE1383
	2	Remote Control Unit	AXD1495	AXD1495	AXD1494	AXD1491	AXD1491
	3	Battery Cover	AZN7919	AZN7919	AZN7919	AZA7424	AZA7424
	8	Screw Hole Cap	AMR3363	AMR3363	AMR3363	Not used	Not used
	8	Screw Hole Cap UE	Not used	Not used	Not used	AMR3386	AMR3386
	9	Stand Assy	AXG1013	AXG1013	AXG1013	Not used	Not used
	9	Stand Assy UE	Not used	Not used	Not used	AXG1009	AXG1009
NSP	10	Stand	AMR3352	AMR3352	AMR3352	Not used	Not used
NSP	10	Stand UE	Not used	Not used	Not used	AMR3382	AMR3382
	14	Pad L	AHA2370	AHA2396	AHA2396	AHA2370	AHA2396
	15	Pad R	AHA2371	AHA2397	AHA2397	AHA2371	AHA2397
	16	IM Pad	AHB1253	AHB1259	AHB1259	AHB1253	AHB1259
	17	Top Pad	AHB1256	AHB1260	AHB1260	AHB1256	AHB1260
	18	Accessory Box	AHC1053	AHC1056	AHC1056	AHC1053	AHC1056
	19	Carton E	AHD3247	AHD3293	Not used	Not used	Not used
	19	Carton XE	Not used	Not used	AHD3246	Not used	Not used
	19	Carton FE	Not used	Not used	Not used	AHD3248	AHD3283
	26	Operating Instructions (Italian/Dutch/Swedish/Spanish)	ARC1541	ARC1533	ARC1533	Not used	Not used
	26	Operating Instructions (Italian/Dutch/Spanish)	Not used	Not used	Not used	ARC1542	ARC1535
	29	Operating Instructions (English/French/German) (Italian/Dutch/Swedish/Spanish)	Not used	Not used	ARE1390	Not used	Not used
	30	Errata	ARX1120	ARX1121	ARX1121	ARX1120	ARX1121
	31	User Card A	Not used	ARY1150	ARY1150	Not used	ARY1150
	32	User Card B	Not used	ARY1151	ARY1151	Not used	ARY1151
	33	Caution Manual	ARM1263	ARM1264	ARM1264	ARM1263	ARM1264
NSP	34	Block Diagram	Not used	ARY1159	ARY1159	Not used	ARY1159

2.2 EXTERIOR SECTION (1)



EXTERIOR SECTION (1) PARTS LIST

Mark	No.	Description	Part No.
	1	TUNER BOARD Assy	See Contrast table (2)
⚠	2	Power Switch (TRAP)(S1)	ASG1089
⚠	3	AC Inlet (CN1)	AKP1257
	4	Flexible Cable (J209)	See Contrast table (2)
	5	Flexible Cable (J210)	See Contrast table (2)
	6	•••••	
	7	3P Housing Wire (J107)	ADX2836
	8	9P Housing Wire (J113)	See Contrast table (2)
	9	8P Housing Wire (J114)	See Contrast table (2)
	10	•••••	
⚠	11	Fan Motor 42 x 10.5L	See Contrast table (2)
	12	Center Stay U	ANG2564
	13	Leg Assy	AXG1012
	14	•••••	
	15	•••••	
	16	•••••	
	17	•••••	
	18	Side Type Mini Clamp	See Contrast table (2)
	19	•••••	
	20	•••••	
	21	•••••	
	22	•••••	
	23	•••••	
	24	Rear Cover	AMR3425
	25	•••••	
	26	•••••	
	27	Metal Bonnet Bottom	See Contrast table (2)
	28	Metal Bonnet Top	See Contrast table (2)
	29	Serial Sheet	AAX2609
	30	•••••	
	31	•••••	
	32	•••••	
	33	•••••	
	34	•••••	
	35	•••••	
NSP	36	Serial Label	ARW1100
	37	•••••	
NSP	38	Bottom Can	See Contrast table (2)
	39	Top Can	See Contrast table (2)
	40	Heat Sink	See Contrast table (2)
	41	Screw	See Contrast table (2)
	42	Screw	See Contrast table (2)
	43	•••••	
	44	PCMCIA Ejector	See Contrast table (2)
	45	•••••	
	46	•••••	
	47	•••••	
	48	•••••	
	49	•••••	
	50	•••••	
	51	•••••	
	52	•••••	
	53	Screw	ABZ30P080FTC
	54	Screw	BBZ30P060FTB
	55	Screw	See Contrast table (2)
	56	•••••	
	57	Screw	ABZ30P080FTC
	58	•••••	
	59	Screw	See Contrast table (2)
	60	Screw	ABZ30P060FTB
	61	Screw	See Contrast table (2)
	62	PC Card Module	See Contrast table (2)
	63	PC Shield	See Contrast table (2)
	64	6P Housing Wire (J111)	See Contrast table (2)
	65	Flexible Cable (J208)	See Contrast table (2)
	66	PC Guide	See Contrast table (2)
	67	Gasket XE	See Contrast table (2)
	68	Tuner Adaptor	See Contrast table (2)

(2) CONTRAST TABLE

PDP-R05E/WYVI, /WYVIXK, PDP-R05XE/WYVIXK, PDP-R05FE/WYVI and / WYVIXK are constructed the same except for the following:

Mark	No.	Description	PDP-R05E/ WYVI	PDP-R05E/ WYVIXK	PDP-R05XE/ WYVIXK	PDP-R05FE/ WYVI	PDP-R05FE/ WYVIXK
	1	TUNER BOARD Assy	Not used	Not used	AWE1301	Not used	Not used
	4	Flexible Cable (J209)	Not used	Not used	ADD1280	Not used	Not used
	5	Flexible Cable (J210)	Not used	Not used	ADD1267	Not used	Not used
	8	9P Housing Wire (J113)	Not used	Not used	ADX3017	Not used	Not used
	9	8P Housing Wire (J114)	Not used	Not used	ADX3018	Not used	Not used
⚠	11	Fan Motor 42 x 10.5L)	Not used	Not used	AXM1049	Not used	Not used
	18	Side Type Mini Clamp	Not used	Not used	AEC2003	Not used	Not used
	24	Rear Cover	Not used	Not used	AMR3425	Not used	Not used
	27	Metal Bonnet Bottom	ANE1631	ANE1631	ANE1631	Not used	Not used
	27	Metal Bonnet Bottom (UE)	Not used	Not used	Not used	ANE1634	ANE1634
	28	Bonnet Top	ANE1632	ANE1632	ANE1632	Not used	Not used
	28	Bonnet Top (FE)	Not used	Not used	Not used	ANE1637	ANE1637
NSP	38	Bottom Can	Not used	Not used	XNA1004	Not used	Not used
	39	Top Can	Not used	Not used	XNG1001	Not used	Not used
	40	Heat Sink	Not used	Not used	XNH1004	Not used	Not used
	41	Screw	Not used	Not used	BBZ30P060FTB	Not used	Not used
	42	Screw	Not used	Not used	PMZ20P100FNI	Not used	Not used
	44	PCMCIA Ejector	Not used	Not used	ANG2673	Not used	Not used
	55	Screw	Not used	Not used	BBZ30P140FTC	Not used	Not used
	59	Screw	ABZ30P080FTC	ABZ30P080FTC	ABZ30P080FTC	ABZ30P060FTB	ABZ30P060FTB
	61	Screw	ABZ30P180FTC	ABZ30P160FTC	ABZ30P160FTC	Not used	Not used
	62	PC Card Module	AXY1073	AXY1073	AXY1073	Not used	Not used
	63	PC Shield	ANG2578	ANG2578	ANG2578	Not used	Not used
	64	6P Housing Wire (J111)	ADX3016	ADX3016	ADX3016	Not used	Not used
	65	Flexible Cable (J208)	ADD1226	ADD1226	ADD1226	Not used	Not used
	66	PC Guide	AMR3393	AMR3393	AMR3393	Not used	Not used
	67	Gasket XE	Not used	Not used	ANK1756	Not used	Not used
	68	Tuner Adaptor	Not used	Not used	ANG2672	Not used	Not used

A

B

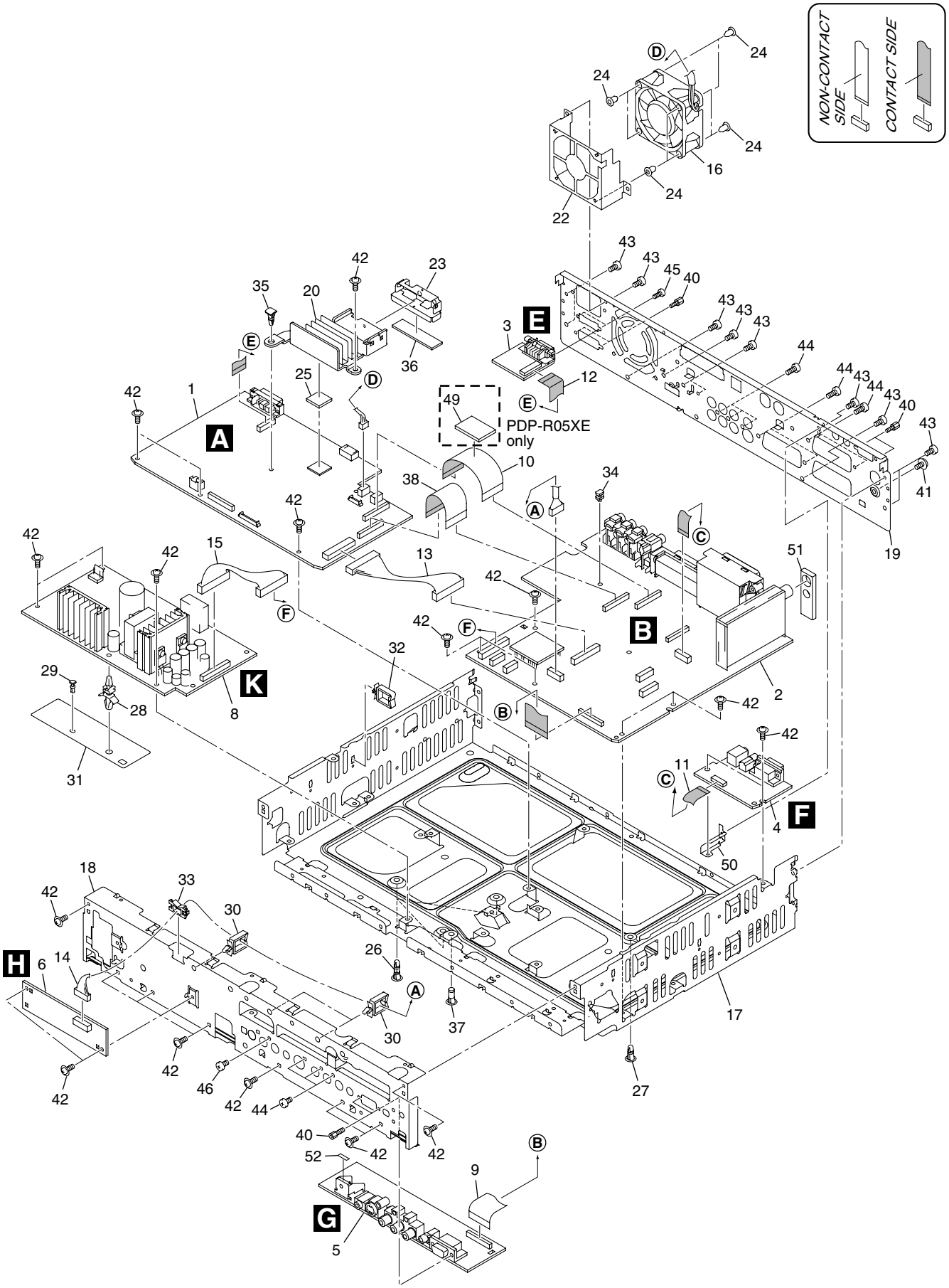
C

D

E

F

2.3 EXTERIOR SECTION (2)



EXTERIOR SECTION (2) PARTS LIST

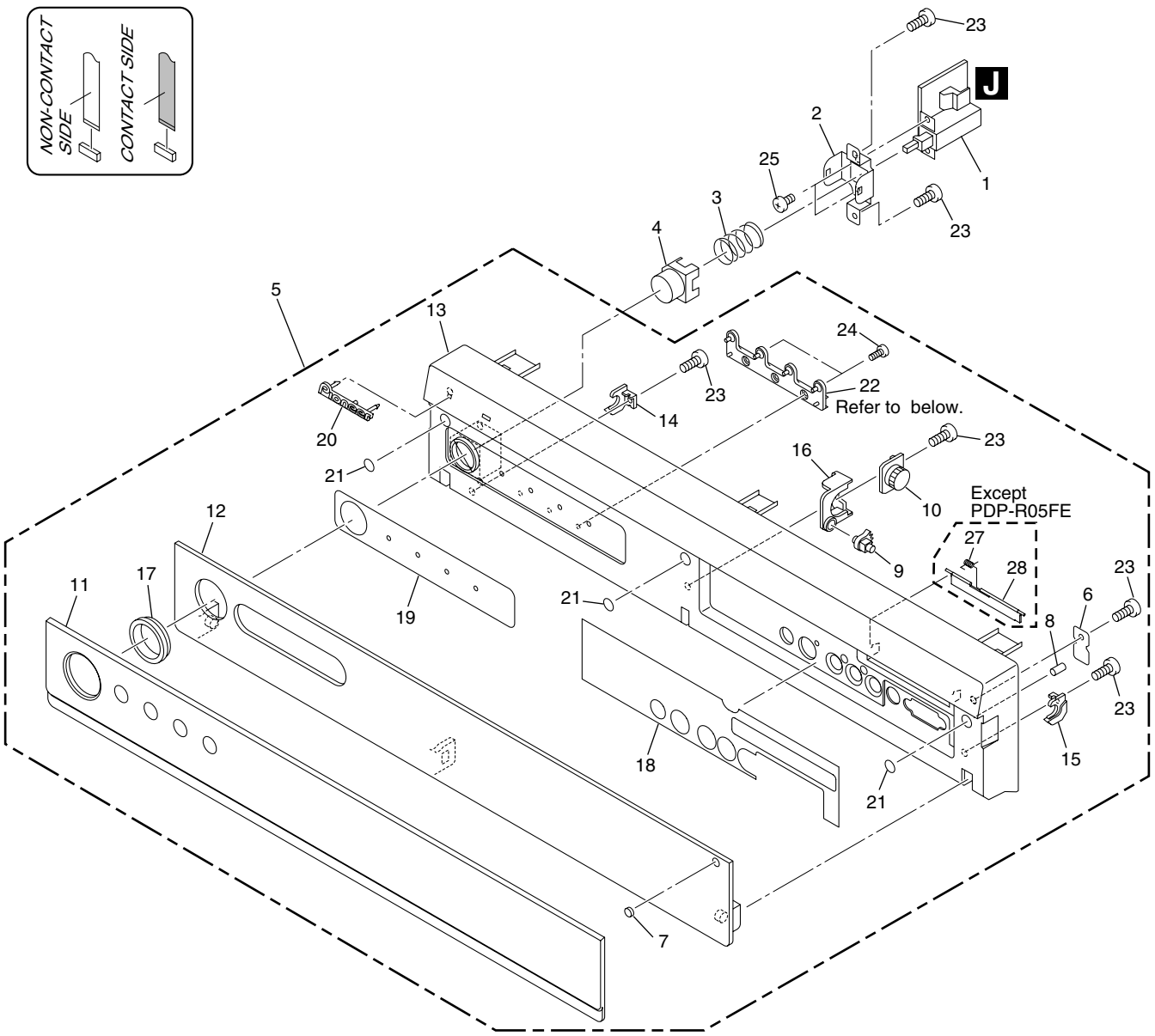
Mark	No.	Description	Part No.
	1	MR MAIN BOARD Assy	See Contrast table (2)
	2	AV BOARD Assy	See Contrast table (2)
	3	MDR Assy	AWZ6948
	4	SR Assy	See Contrast table (2)
	5	FRONT Assy	See Contrast table (2)
	6	LED Assy	See Contrast table (2)
	7	• • • • •	
⚠	8	POWER SUPPLY Unit	AXY1091
	9	Flexible Cable (J201)	ADD1209
	10	Flexible Cable (J203)	ADD1210
	11	Flexible Cable (J206)	ADD1213
	12	Flexible Cable (J207)	ADD1214
	13	15P Housing Wire (J105)	ADX2833
	14	7P Housing Wire (J109)	ADX3015
	15	16P Housing Wire (J112)	ADX2917
⚠	16	Fan Motor 60 x 25L	AXM1045
	17	Base Chassis	ANA1811
	18	Front Chassis	See Contrast table (2)
	19	Terminal Panel	See Contrast table (2)
	20	Heatsink HDMI	ANH1618
	21	• • • • •	
	22	Fan Holder	ANG2568
	23	HDMI Shield	ANG2646
	24	Insulation Rubber	AEB1377
	25	Silicone Sheet HDMI	AEB1379
	26	PCB Holder	AEC1097
	27	Spacer	AEC1256
	28	Locking Card Spacer	AEC1429
	29	Nyron Rivet	AEC1671
	30	Wire Saddle	AEC1745
	31	Barrier A	AEC2017
	32	Re-use Wire Saddle	AEC1945
	33	Edge Saddle	AEC1946
	34	Mini Card Spacer	AEC1959
	35	Circuit Board Spacer	AEC1964
	36	Gasket F	ANK1722
	37	Card Spacer A	BEC1120
	38	Flexible Cable (J202)	ADD1209
	39	• • • • •	
	40	Hexagon Head Screw	BBA1051
	41	Screw	ABZ30P060FTB
	42	Screw	ABZ30P080FTC
	43	Screw	BBZ30P060FTB
	44	Screw	BPZ30P100FTB
	45	Screw	PMZ26P060FTB
	46	Screw	BMZ30P060FTC
	47	• • • • •	
	48	• • • • •	
	49	FFC Cushion (XE)	See Contrast table (2)
	50	SR Holder E	ANG2581
	51	Gasket	ANK1730
	52	Front Ground Spacer	AEC2016

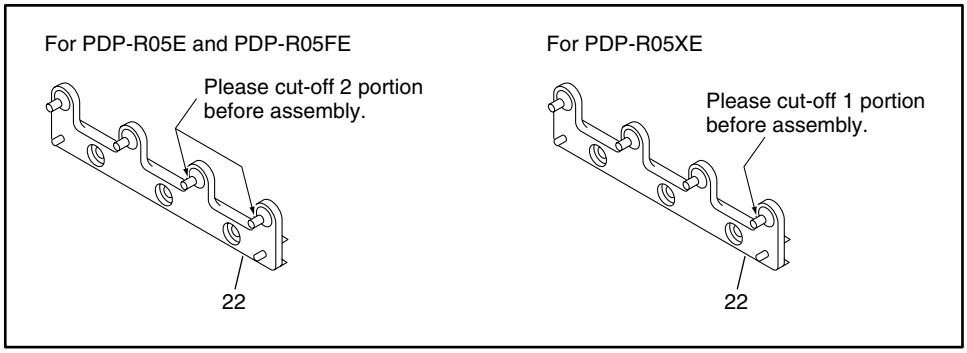
(2) CONTRAST TABLE

PDP-R05E/WYVI, /WYVIXK, PDP-R05XE/WYVIXK, PDP-R05FE/WYVI and / WYVIXK are constructed the same except for the following:

Mark	No.	Description	PDP-R05E/ WYVI	PDP-R05E/ WYVIXK	PDP-R05XE/ WYVIXK	PDP-R05FE/ WYVI	PDP-R05FE/ WYVIXK
	1	MR MAIN BOARD Assy	AWZ6944	AWZ6944	AWZ6990	AWZ6945	AWZ6945
	2	AV BOARD Assy	AWZ6946	AWZ6946	AWZ6986	AWZ6947	AWZ6947
	4	SR Assy	AWZ6949	AWZ6949	AWZ6949	AWZ6950	AWZ6950
	5	FRONT Assy	AWZ6951	AWZ6951	AWZ6951	AWZ6952	AWZ6952
	6	LED Assy	AWZ6953	AWZ6953	AWZ6953	AWZ6954	AWZ6954
	18	Front Chassis E	ANB1867	ANB1867	ANB1867	Not used	Not used
	18	Front Chassis	Not used	Not used	Not used	ANB1866	ANB1866
	19	Terminal Panel E	ANC2363	ANC2369	Not used	Not used	Not used
	19	Terminal Panel XE	Not used	Not used	ANC2362	Not used	Not used
	19	Terminal Panel FE	Not used	Not used	Not used	ANC2364	ANC2370
	49	FFC Cushion (XE)	Not used	Not used	AEB1407	Not used	Not used

2.4 FRONT PANEL SECTION





FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	SW Assy	AWZ6920
	2	SW Holder	ANG2670
	3	SW Spring	ABH1109
	4	Power Button	ADD4128
	5	Front Panel Assy	See Contrast table (2)
	6	Magnet Holder	ANG2671
	7	Magnet Catcher	ANG2675
	8	Magnet	AMF1004
	9	Gear	AMR3418
	10	Damper	AXA1018
	11	Panel	See Contrast table (2)
	12	Door	AAN1473
	13	Front Panel	See Contrast table (2)
	14	Door Holder L	AMR3414
	15	Door Holder R	AMR3415
	16	Damper Holder	AMR3416
	17	Escutcheon Ring	ADD4130
	18	Sealing Sheet	See Contrast table (2)
	19	Sealing Sheet S	See Contrast table (2)
	20	Pioneer Badge	VAM1124
	21	Door Cushion	See Contrast table (2)
	22	LED Lens	AMR3417
	23	Screw	BPZ30P100FTB
	24	Screw	JPZ20P035FNI
	25	Screw	BMZ30P060FTC
	26	••••••	
	27	PC Spring	See Contrast table (2)
	28	PC Card Door	See Contrast table (2)

(2) CONTRAST TABLE

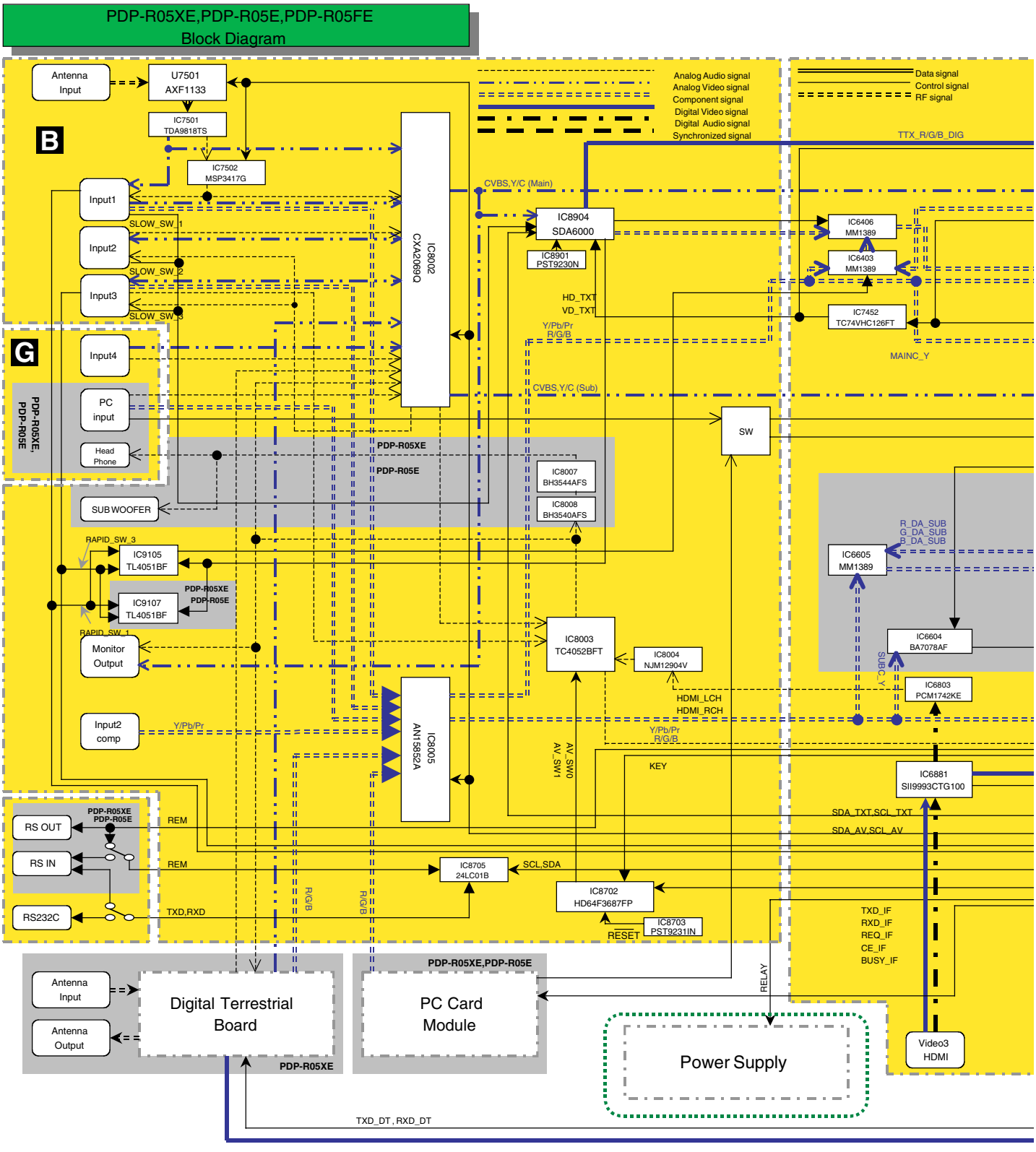
PDP-R05E/WYVI, /WYVIXK, PDP-R05XE/WYVIXK, PDP-R05FE/WYVI and / WYVIXK are constructed the same except for the following:

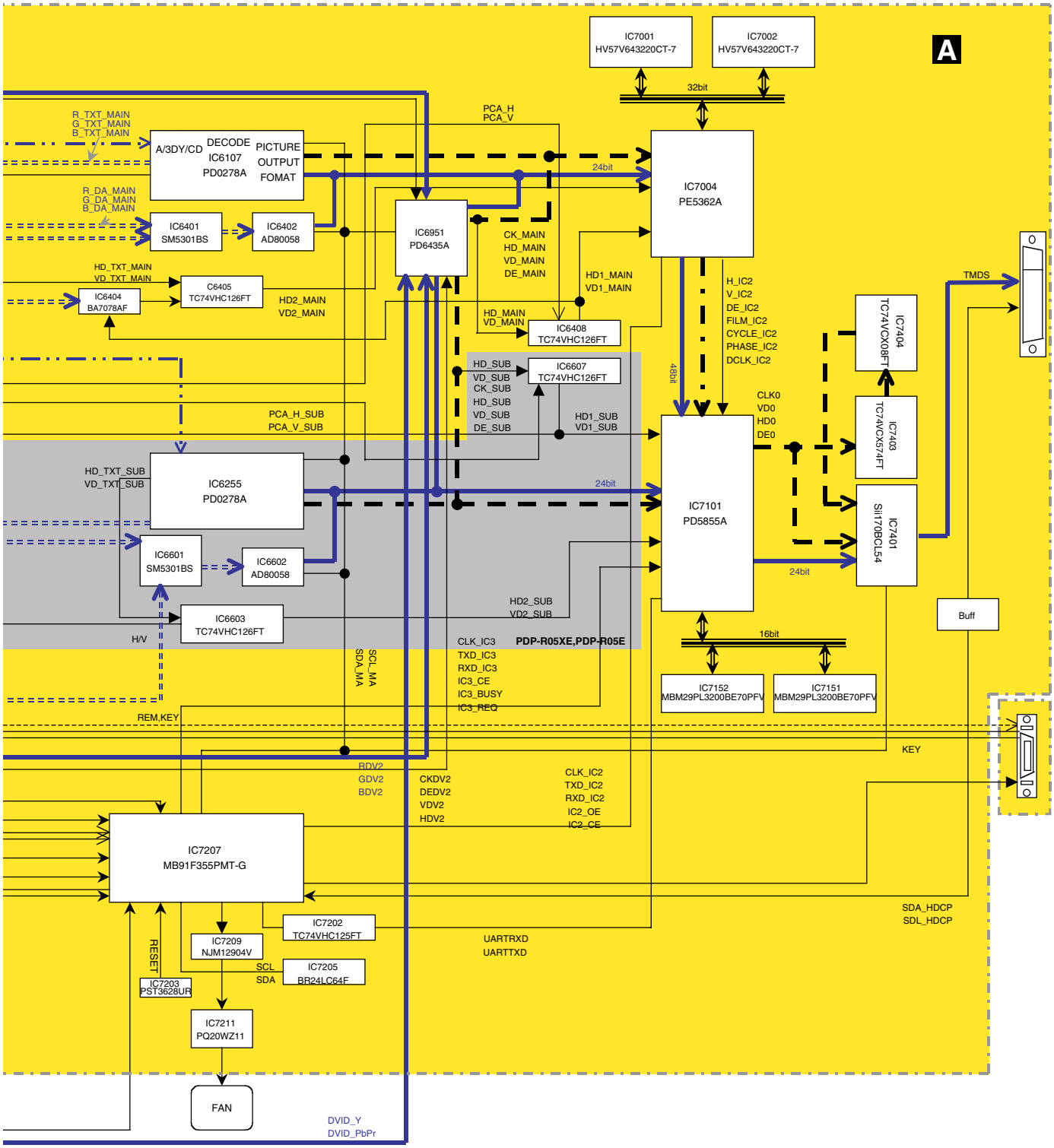
Mark	No.	Description	PDP-R05E/ WYVI	PDP-R05E/ WYVIXK	PDP-R05XE/ WYVIXK	PDP-R05FE/ WYVI	PDP-R05FE/ WYVIXK
	5	Front Panel Assy E	AXG1021	AXG1021	Not used	Not used	Not used
	5	Front Panel Assy XE	Not used	Not used	AXG1020	Not used	Not used
	5	Front Panel Assy FE	Not used	Not used	Not used	AXG1022	AXG1022
	11	Panel (E)	AAK2826	AAK2826	Not used	AAK2826	AAK2826
	11	Panel (XE)	Not used	Not used	AAK2825	Not used	Not used
	13	Front Panel (E)	AMB2829	AMB2829	Not used	Not used	Not used
	13	Front Panel (XE)	Not used	Not used	AMB2828	Not used	Not used
	13	Front Panel (FE)	Not used	Not used	Not used	AMB2830	AMB2830
	18	Sealing Sheet (XE E)	AAL2547	AAL2547	AAL2547	Not used	Not used
	18	Sealing Sheet (FE)	Not used	Not used	Not used	AAL2548	AAL2548
	19	Sealing Sheet S (GC)	AAL2555	AAL2555	Not used	AAL2555	AAL2555
	19	Sealing Sheet S (E)	Not used	Not used	AAL2554	Not used	Not used
	21	Door Cushion	AEB1391	AEB1391	AEB1391	AEB1394	AEB1394
	27	PC Spring	ABH1112	ABH1112	ABH1112	Not used	Not used
	28	PC Card Door	AMR3365	AMR3365	AMR3365	Not used	Not used

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

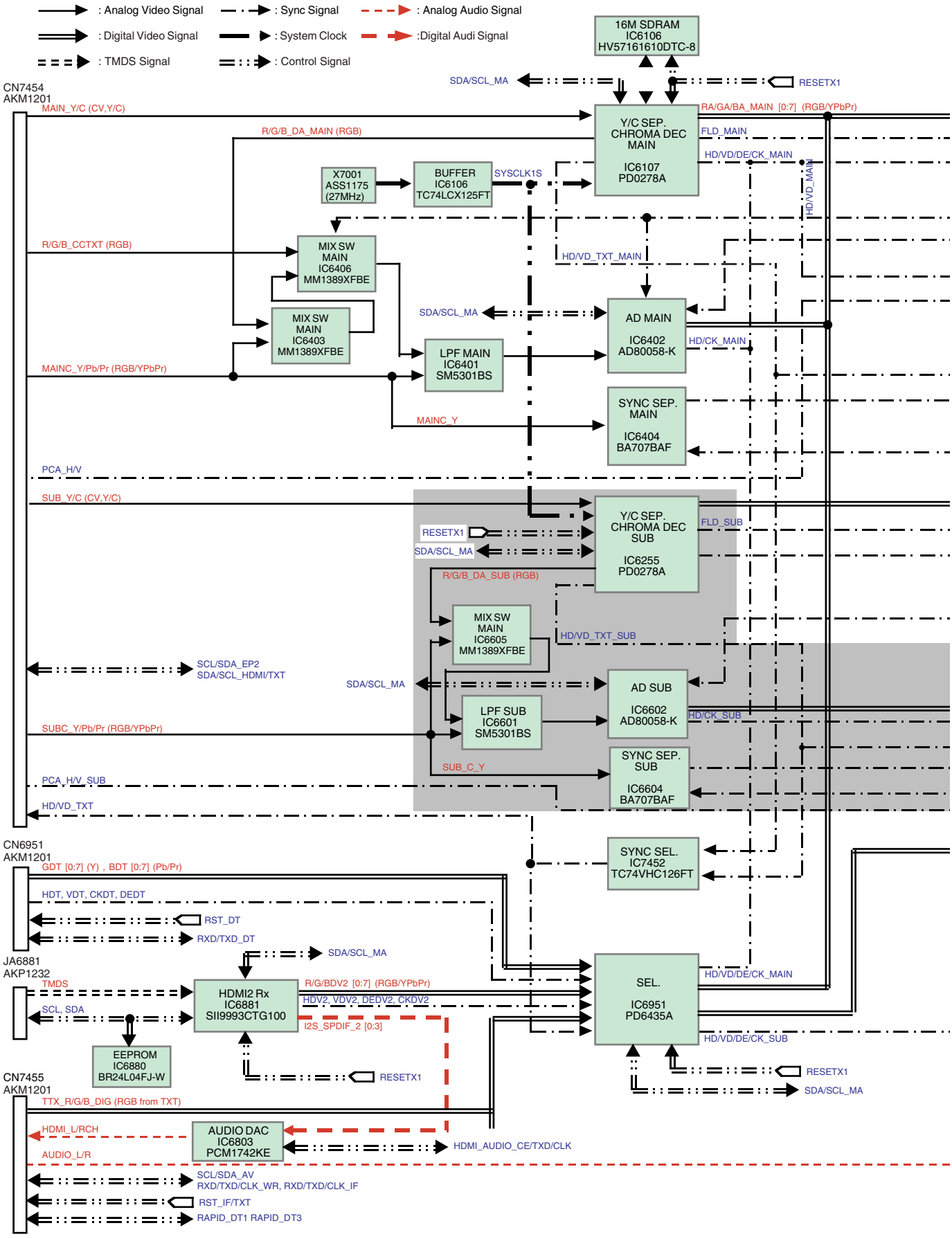
3.1 BLOCK DIAGRAM

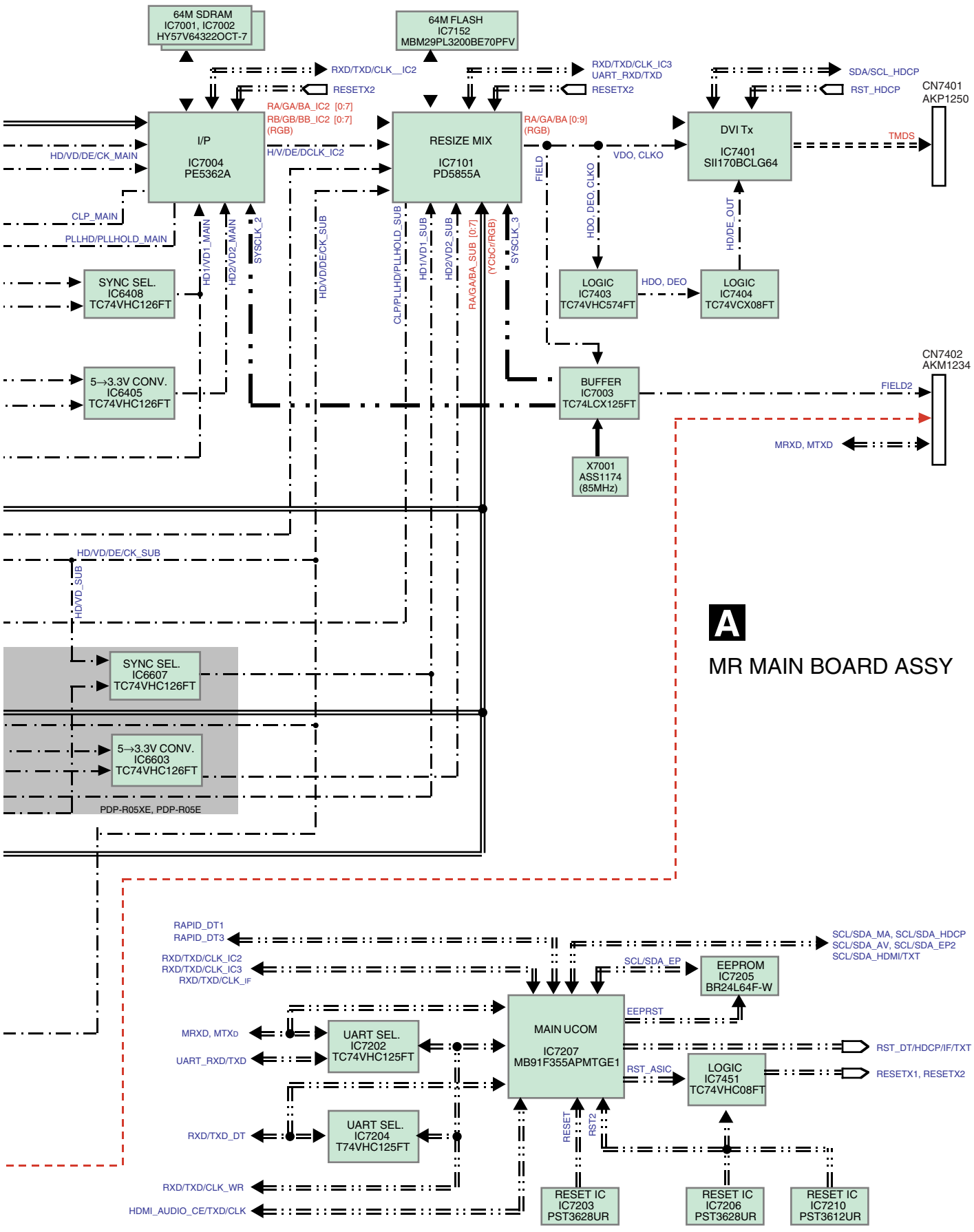
3.1.1 SIGNAL ROUTE



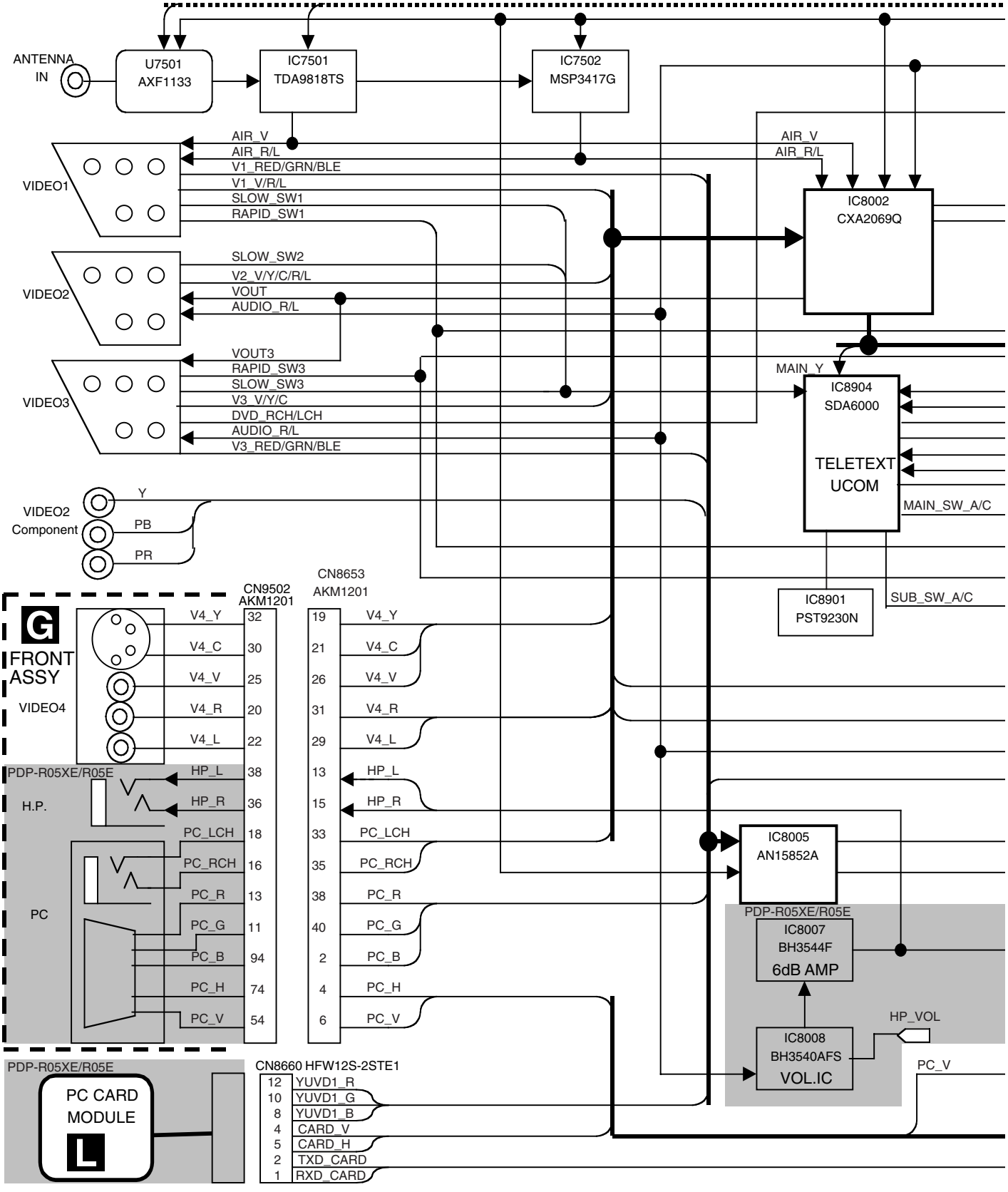

A
IC7001
HV57V643220CT-7
IC7002
HV57V643220CT-7
32bit
R_TXT_MAIN
G_TXT_MAIN
B_TXT_MAIN
A/3DY/CD DECODE IC6107 PD0278A
PICTURE OUTPUT FOMAT
PCA_H
PCA_V
24bit
IC7004
PE5362A
R_DA_MAIN
G_DA_MAIN
B_DA_MAIN
IC6401
SM5301BS
IC6402
AD80058
IC6951
PD6435A
CK_MAIN
HD_MAIN
VD_MAIN
DE_MAIN
HD_TXT_MAIN
VD_TXT_MAIN
IC6404
BA7078AF
C6405
TC74VHC126FT
HD2_MAIN
VD2_MAIN
HD1_MAIN
VD1_MAIN
H_IC2
V_IC2
DE_IC2
FILM_IC2
CYCLE_IC2
PHASE_IC2
DCLK_IC2
TMDS
CN7401
PLASMA DISPLAY
WHITE
IC7404
TC74VCX08FT
HD_MAIN
VD_MAIN
IC6408
TC74VHC126FT
HD_SUB
VD_SUB
CK_SUB
HD_SUB
VD_SUB
DE_SUB
IC6607
TC74VHC126FT
49bit
CLK0
VD0
HD0
DE0
IC7403
TC74VCX574FT
PCA_H_SUB
PCA_V_SUB
HD1_SUB
VD1_SUB
HD_TXT_SUB
VD_TXT_SUB
IC6255
PD0278A
24bit
IC7101
PD5855A
IC7401
Sii170BCL54
IC6601
SM5301BS
IC6602
AD80058
IC6603
TC74VHC126FT
H/V
HD2_SUB
VD2_SUB
24bit
Buff
16bit
CLK_IC3
TXD_IC3
RXD_IC3
IC3_CE
IC3_BUSY
IC3_REQ
PDP-R05XE,PDP-R05E
SCL_MA
SDA_MA
IC7152
MBM29PL3200BE70PFV
IC7151
MBM29PL3200BE70PFV
REM,KEY
KEY
CN9301
PLASMA DISPLAY
BLACK
RDV2
GDV2
BDV2
CKDV2
DEDV2
VDV2
HDV2
CLK_IC2
TXD_IC2
RXD_IC2
IC2_OE
IC2_CE
IC7207
MB91F355PMT-G
SDA_HDCP
SDL_HDCP
IC7202
TC74VHC125FT
IC7209
NJM12904V
IC7205
BR24LC64F
SCL
SDA
UARTRXD
UARTTXD
RESET
IC7203
PST3628UR
IC7211
PQ20WZ11
FAN
DVID_Y
DVID_PbPr

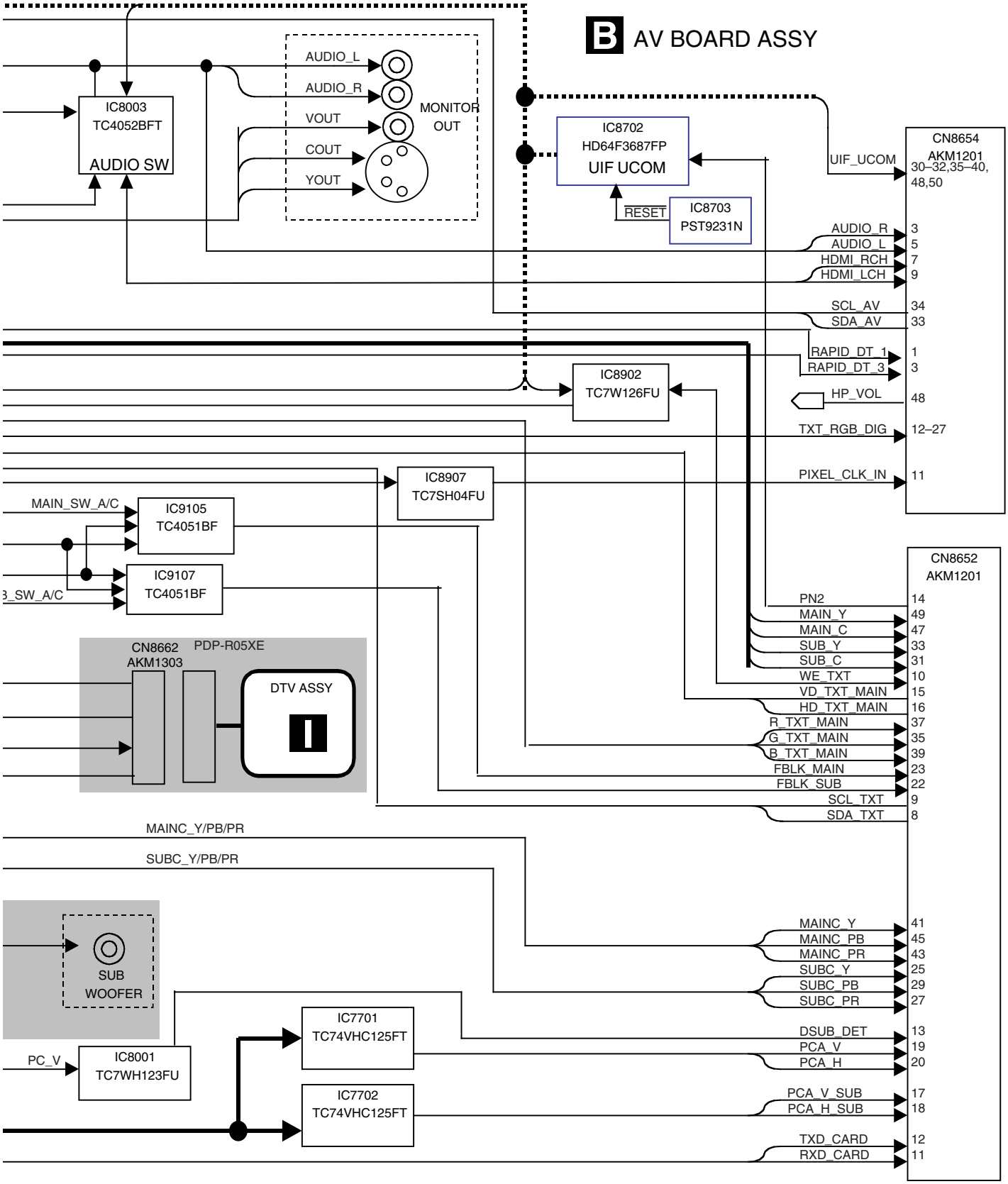
3.1.2 MR MAIN BOARD ASSY



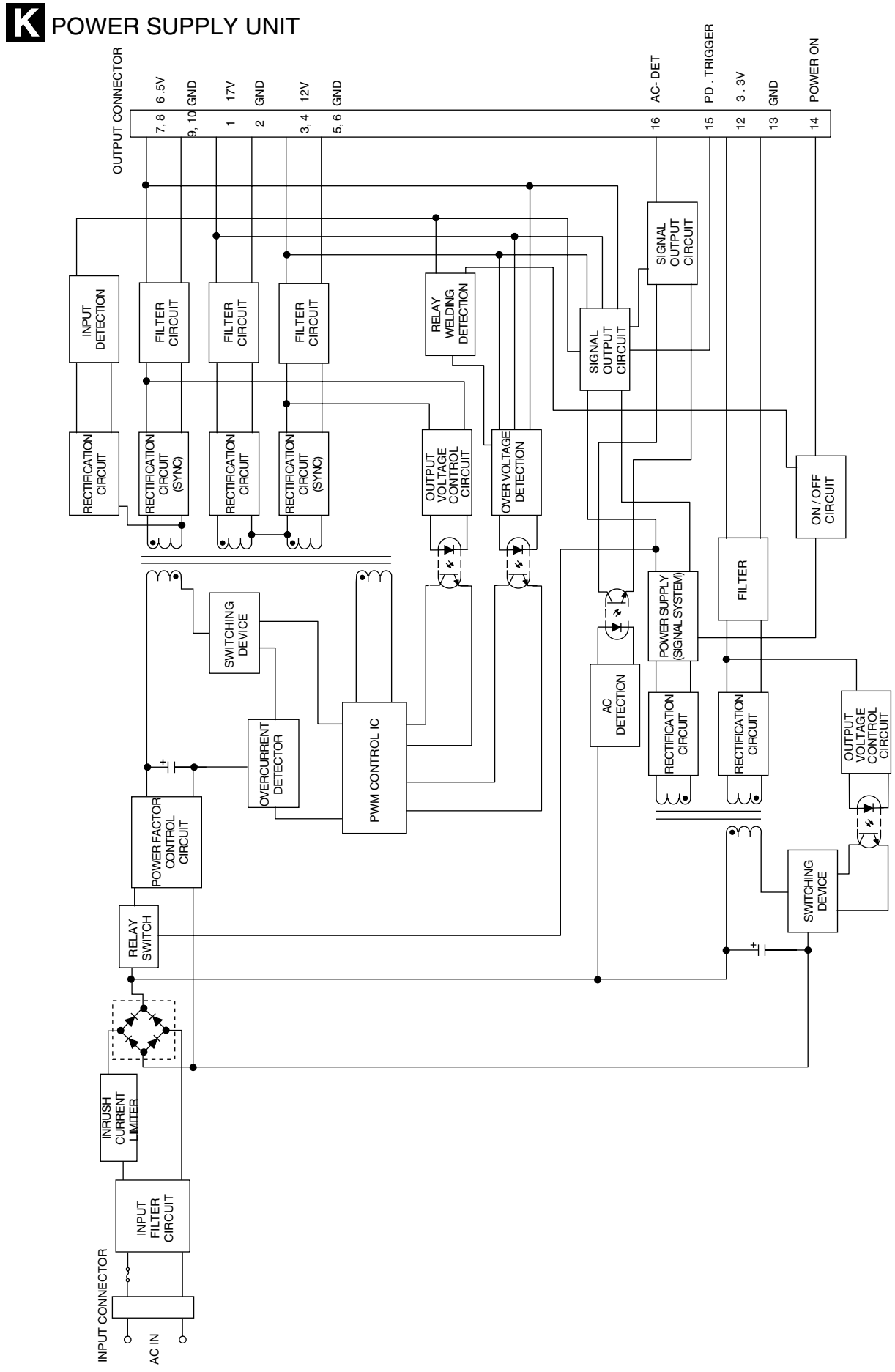

64M SDRAM
IC7001, IC7002
HY57V64322OCT-7
64M FLASH
IC7152
MBM29PL3200BE70PFV
RXD/TXD/CLK__IC2
RESETX2
RXD/TXD/CLK_IC3
UART_RXD/TXD
RESETX2
SDA/SCL_HDCP
RST_HDCP
CN7401
AKP1250
I/P
IC7004
PE5362A
RA/GA/BA_IC2 [0:7]
RB/GB/BB_IC2 [0:7]
(RGB)
H/V/DE/DCLK_IC2
RESIZE MIX
IC7101
PD5855A
RA/GA/BA [0:9]
(RGB)
DVI Tx
IC7401
SII170BCLG64
TMDS
HD/VD/DE/CK_MAIN
VDO, CLKO
FIELD
HDO, DEO, CLKO
HD/DE_OUT
CLP_MAIN
PLLHD/PLLHOLD_MAIN
HD1/VD1_MAIN
HD2/VD2_MAIN
SYSCLK_2
HD/VD/DE/CK_SUB
CLP/PLLHD/PLLHOLD_SUB
HD1/VD1_SUB
HD2/VD2_SUB
RA/GA/BA_SUB [0:7]
(YCbCr/RGB)
SYSCLK_3
SYNC SEL.
IC6408
TC74VHC126FT
LOGIC
IC7403
TC74VHC574FT
HDO, DEO
LOGIC
IC7404
TC74VCX08FT
5→3.3V CONV.
IC6405
TC74VHC126FT
BUFFER
IC7003
TC74LCX125FT
CN7402
AKM1234
FIELD2
MRXD, MTXD
X7001
ASS1174
(85MHz)
HD/VD/DE/CK_SUB
HD/VD_SUB
SYNC SEL.
IC6607
TC74VHC126FT
5→3.3V CONV.
IC6603
TC74VHC126FT
PDP-R05XE, PDP-R05E
A
MR MAIN BOARD ASSY
RAPID_DT1
RAPID_DT3
RXD/TXD/CLK_IC2
RXD/TXD/CLK_IC3
RXD/TXD/CLK_IF
SCL/SDA_MA, SCL/SDA_HDCP
SCL/SDA_AV, SCL/SDA_EP2
SCL/SDA_HDMI/TXT
SCL/SDA_EP
EEPROM
IC7205
BR24L64F-W
EEPRST
MRXD, MTXD
UART_RXD/TXD
UART SEL.
IC7202
TC74VHC125FT
MAIN UCOM
IC7207
MB91F355APMTGE1
RST_DT/HDCP/IF/TXT
RST_ASIC
LOGIC
IC7451
TC74VHC08FT
RESETX1, RESETX2
RXD/TXD_DT
UART SEL.
IC7204
T74VHC125FT
RESET
RST2
RXD/TXD/CLK_WR
HDMI_AUDIO_CE/TXD/CLK
RESET IC
IC7203
PST3628UR
RESET IC
IC7206
PST3628UR
RESET IC
IC7210
PST3612UR

3.1.3 AV BOARD ASSY



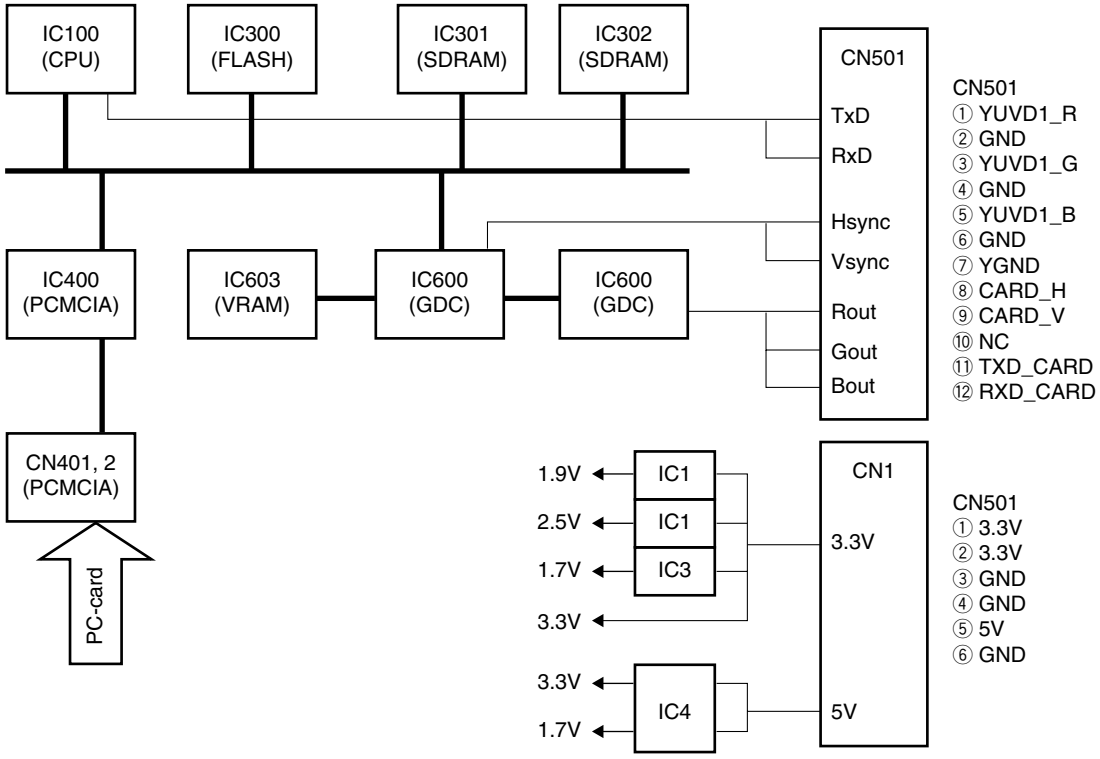

B AV BOARD ASSY
IC8003
TC4052BFT
AUDIO SW
AUDIO_L
AUDIO_R
VOUT
COUT
YOUT
MONITOR OUT
IC8702
HD64F3687FP
UIF UCOM
RESET
IC8703
PST9231N
CN8654
AKM1201
UIF_UCOM
30–32,35–40,
48,50
AUDIO_R 3
AUDIO_L 5
HDMI_RCH 7
HDMI_LCH 9
SCL_AV 34
SDA_AV 33
RAPID_DT_1 1
RAPID_DT_3 3
HP_VOL 48
TXT_RGB_DIG 12–27
PIXEL_CLK_IN 11
IC8902
TC7W126FU
IC8907
TC7SH04FU
MAIN_SW_A/C
IC9105
TC4051BF
IC9107
TC4051BF
CN8652
AKM1201
PN2 14
MAIN_Y 49
MAIN_C 47
SUB_Y 33
SUB_C 31
WE_TXT 10
VD_TXT_MAIN 15
HD_TXT_MAIN 16
R_TXT_MAIN 37
G_TXT_MAIN 35
B_TXT_MAIN 39
FBLK_MAIN 23
FBLK_SUB 22
SCL_TXT 9
SDA_TXT 8
CN8662
AKM1303
PDP-R05XE
DTV ASSY
MAINC_Y/PB/PR
SUBC_Y/PB/PR
SUB WOOFER
MAINC_Y 41
MAINC_PB 45
MAINC_PR 43
SUBC_Y 25
SUBC_PB 29
SUBC_PR 27
IC7701
TC74VHC125FT
IC7702
TC74VHC125FT
PC_V
IC8001
TC7WH123FU
DSUB_DET 13
PCA_V 19
PCA_H 20
PCA_V_SUB 17
PCA_H_SUB 18
TXD_CARD 12
RXD_CARD 11

3.1.4 POWER SUPPLY UNIT



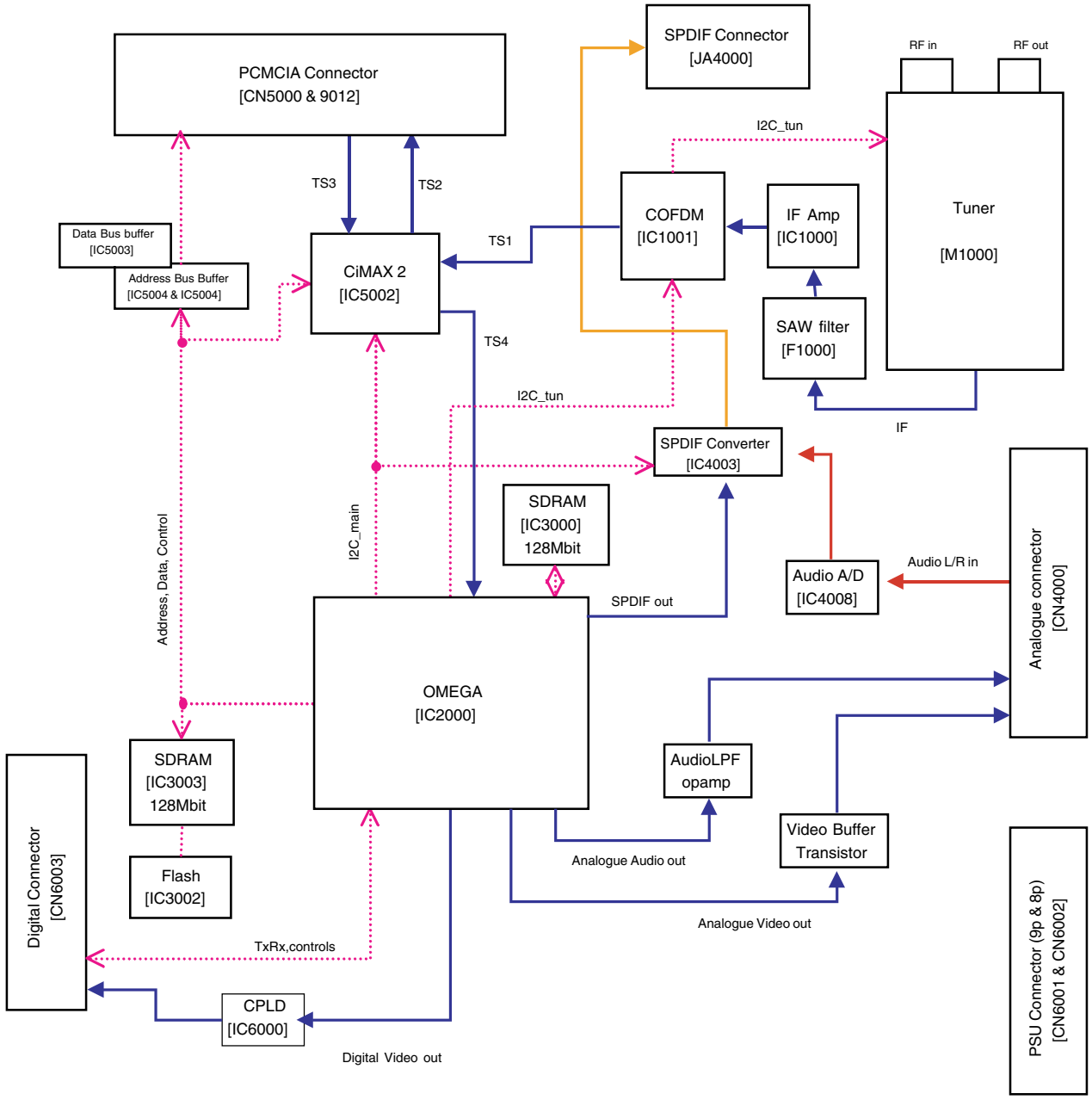
3.1.5 PC CARD MODULE

J PC CARD MODULE

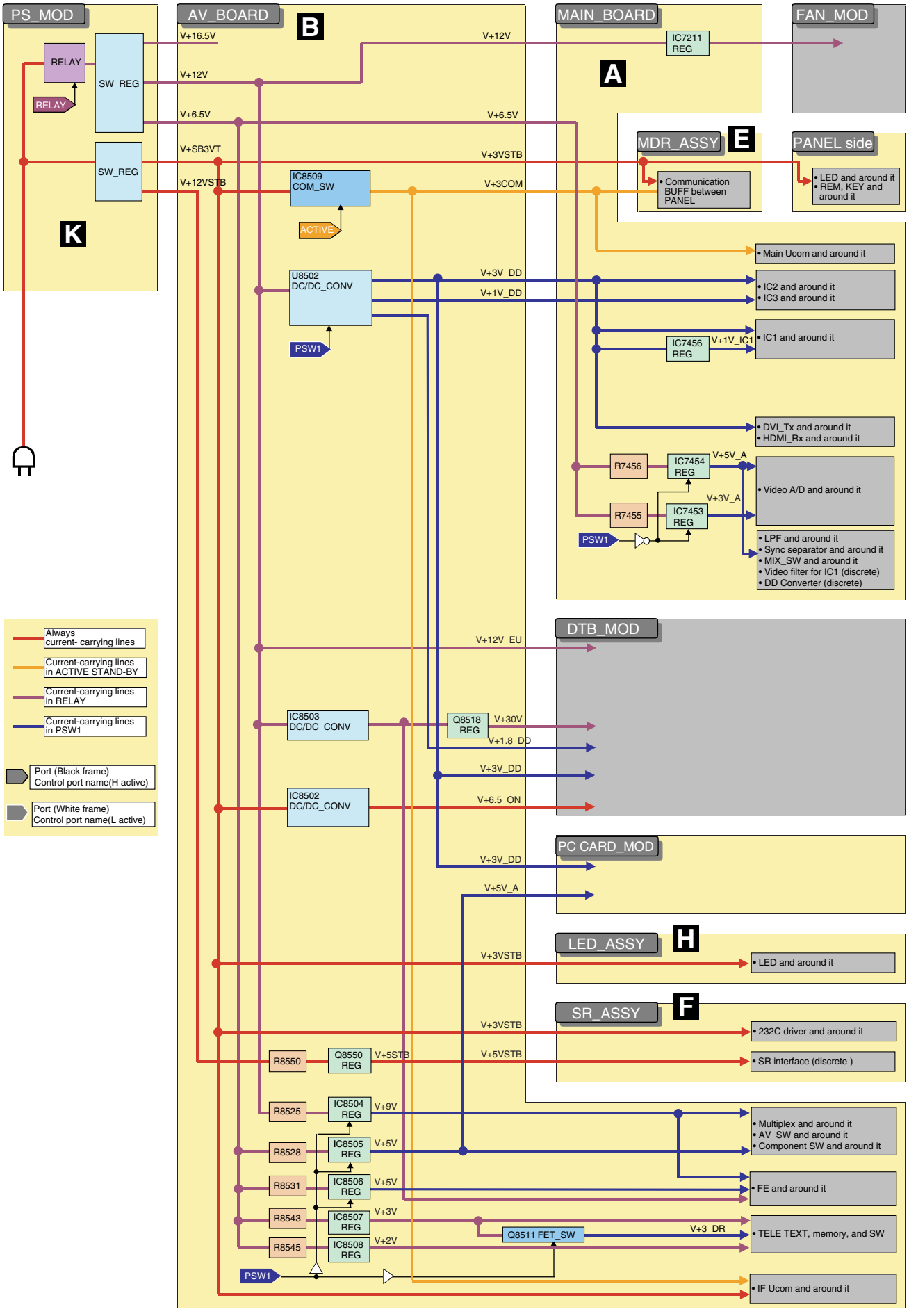


3.1.6 TUNER BOARD ASSY

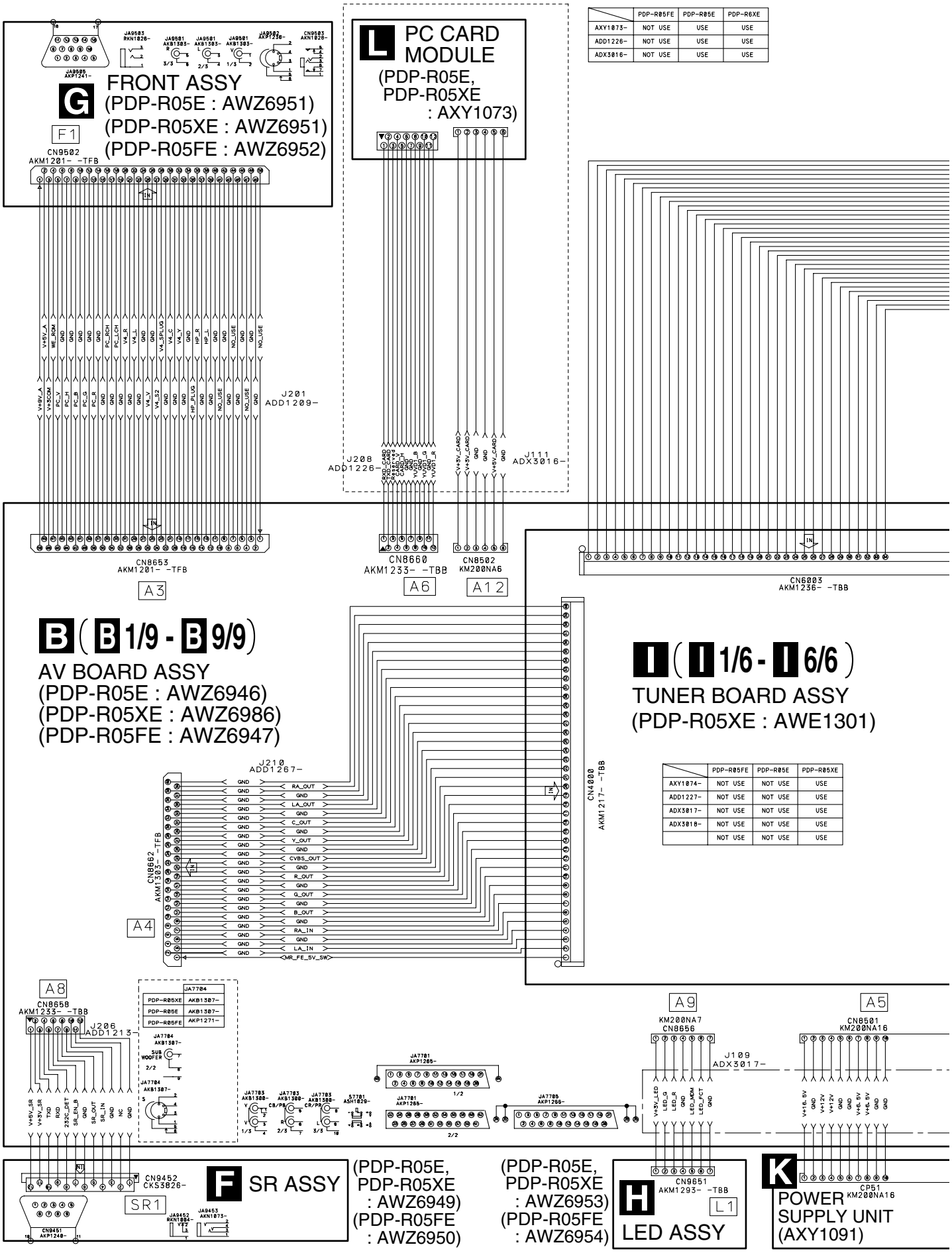
Media Receiver European Digital Tuner PDP-R05XE



3.1.7 POWER SUPPLY



3.2 OVERALL WIRING CONNECTION DIAGRAM

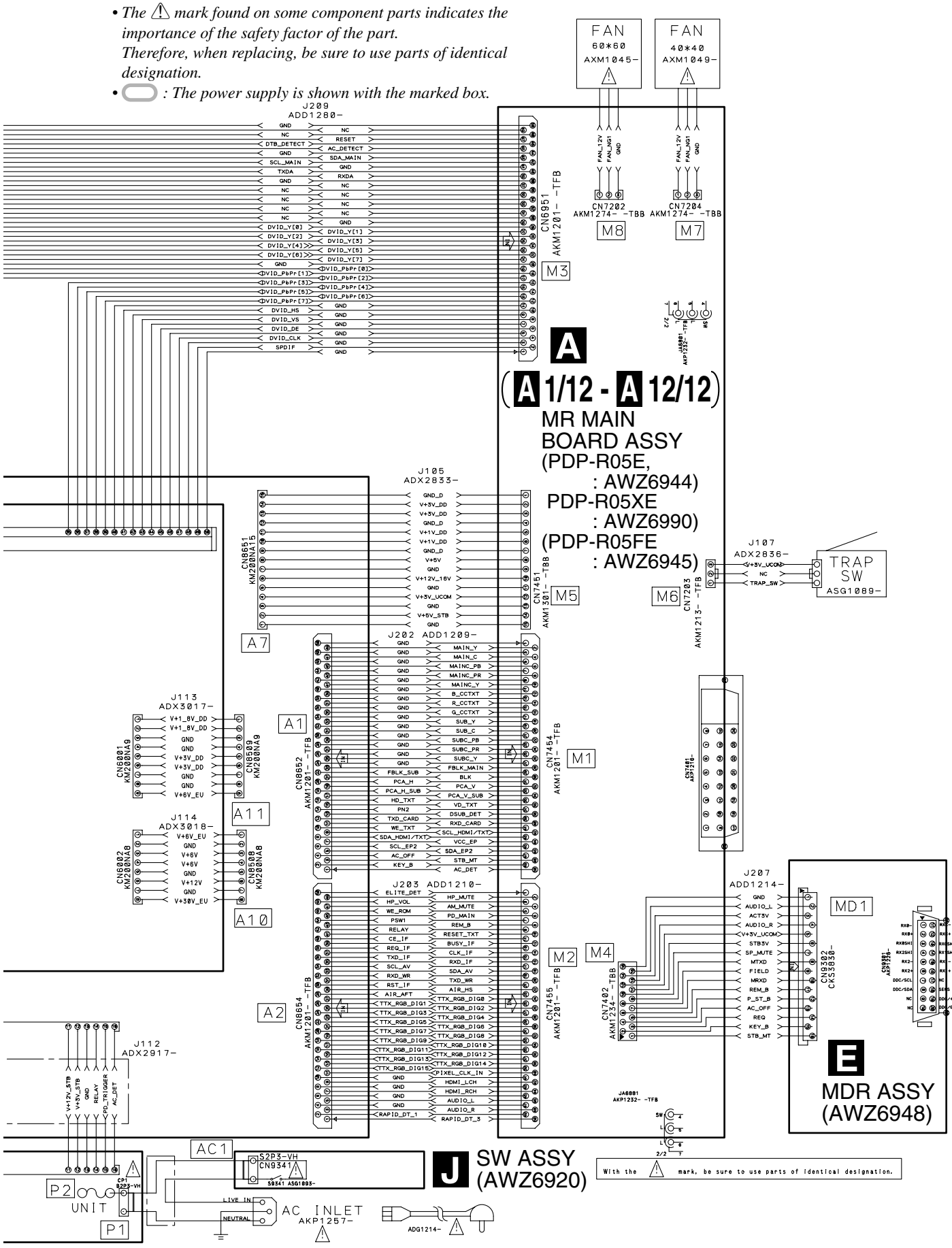


	PDP-R05FE	PDP-R05E	PDP-R6XE
AXY1073-	NOT USE	USE	USE
ADD1226-	NOT USE	USE	USE
ADX3016-	NOT USE	USE	USE

	PDP-R05FE	PDP-R05E	PDP-R05XE
AXY1074-	NOT USE	NOT USE	USE
ADD1227-	NOT USE	NOT USE	USE
ADX3017-	NOT USE	NOT USE	USE
ADX3018-	NOT USE	NOT USE	USE
	NOT USE	NOT USE	USE

JA7704	
PDP-R05XE	AKB1307-
PDP-R05E	AKB1307-
PDP-R05FE	AKP1271-

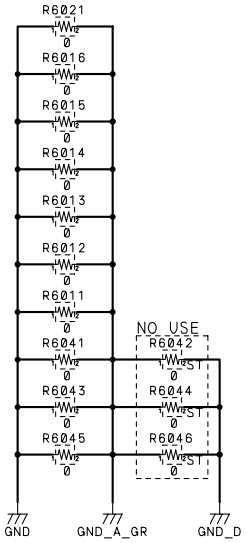
NOTES: • *When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".*
• *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
• ⬭ *: The power supply is shown with the marked box.*



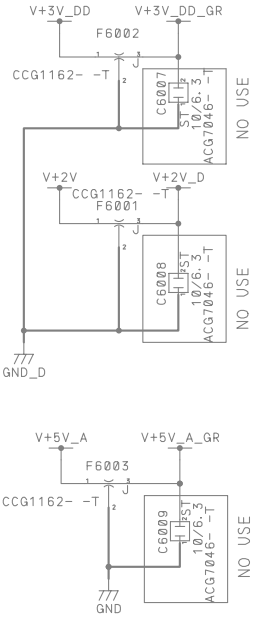
3.3 MR MAIN BOARD ASSY (1/12)

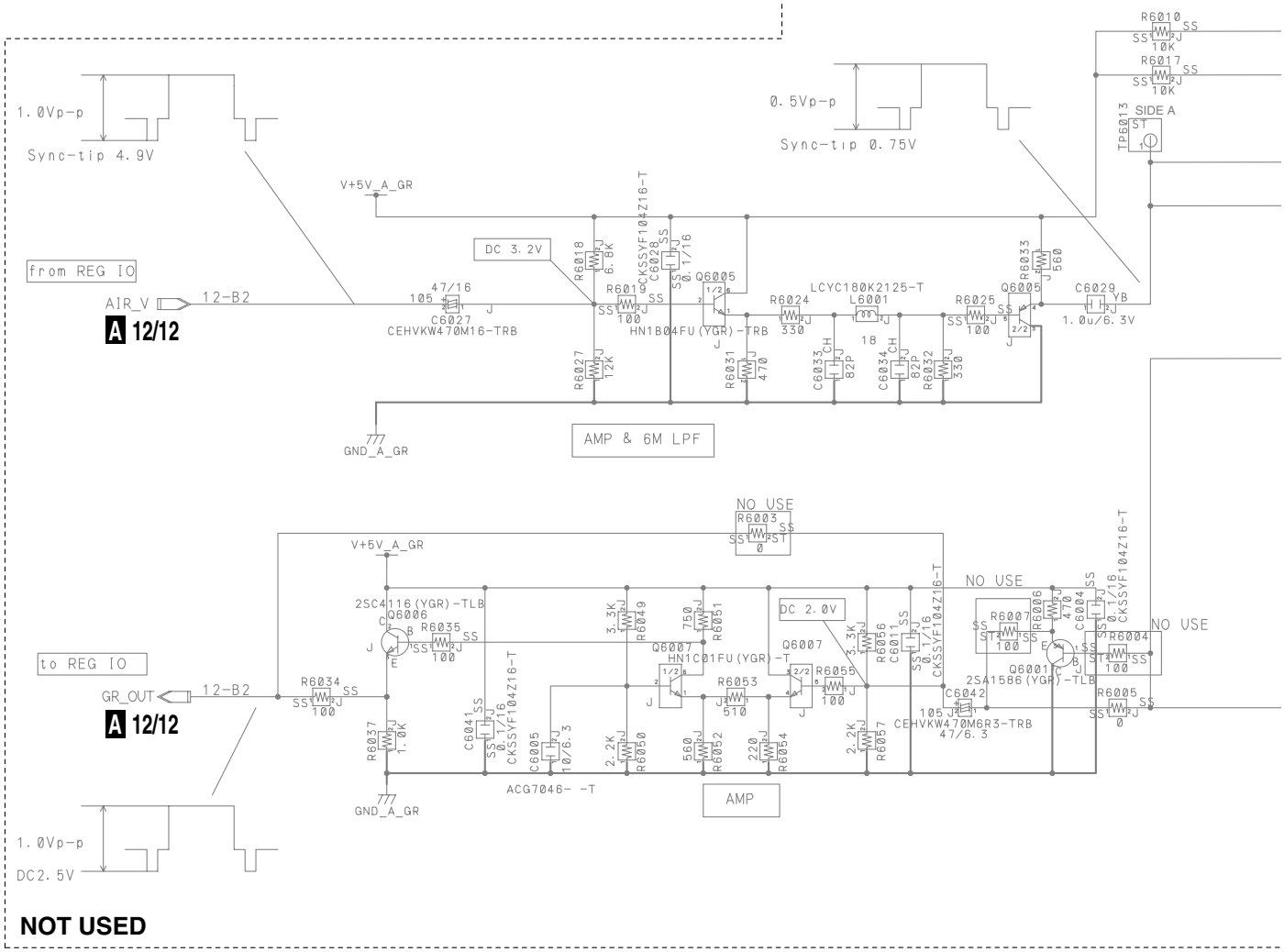
A 1/12 MR MAIN BOARD ASSY
(PDP-R05E : AWZ6944)
(PDP-R05XE : AWZ6990)
(PDP-R05FE : AWZ6945)

● **GR BLOCK**



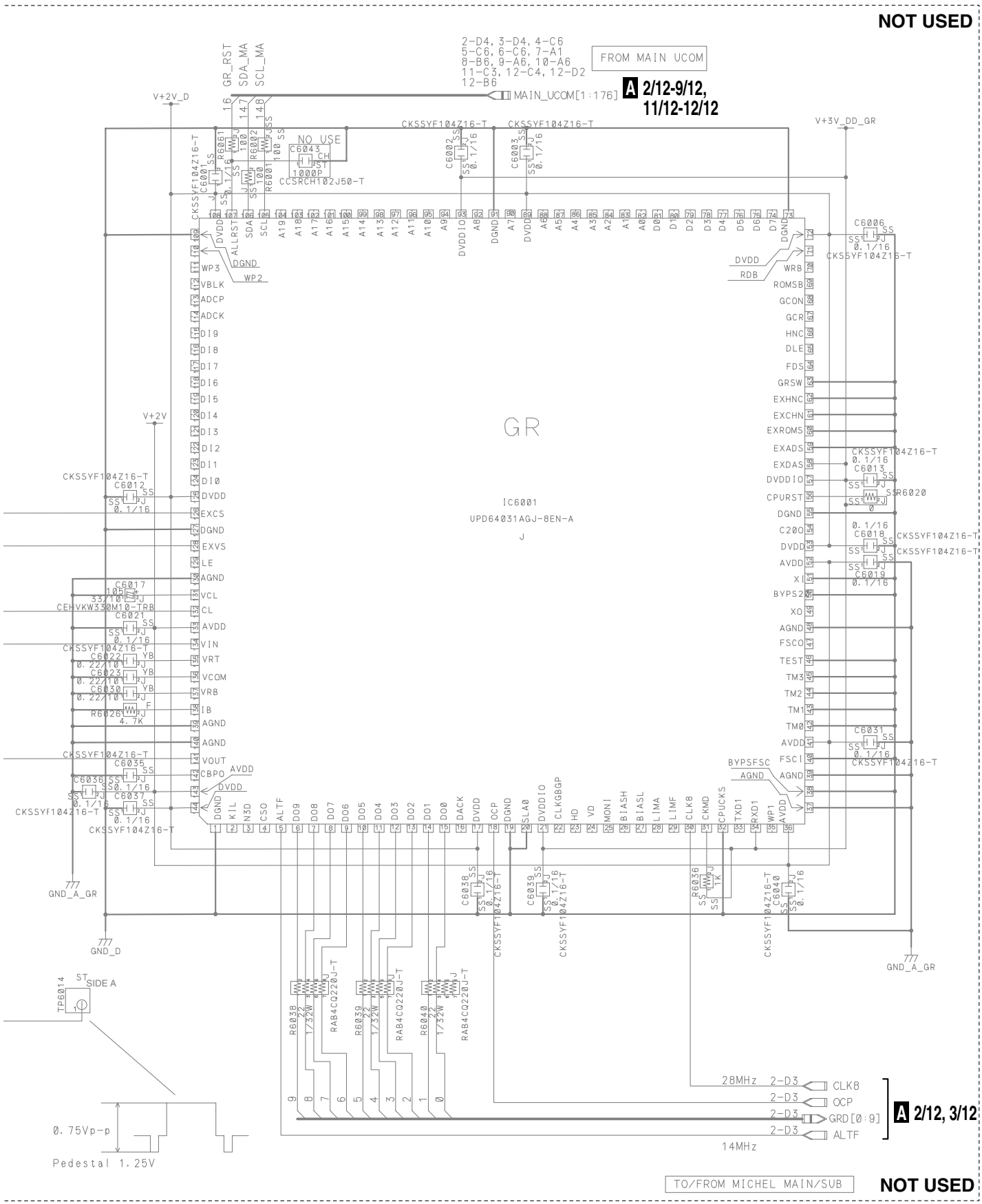
NOT USED





NOT USED

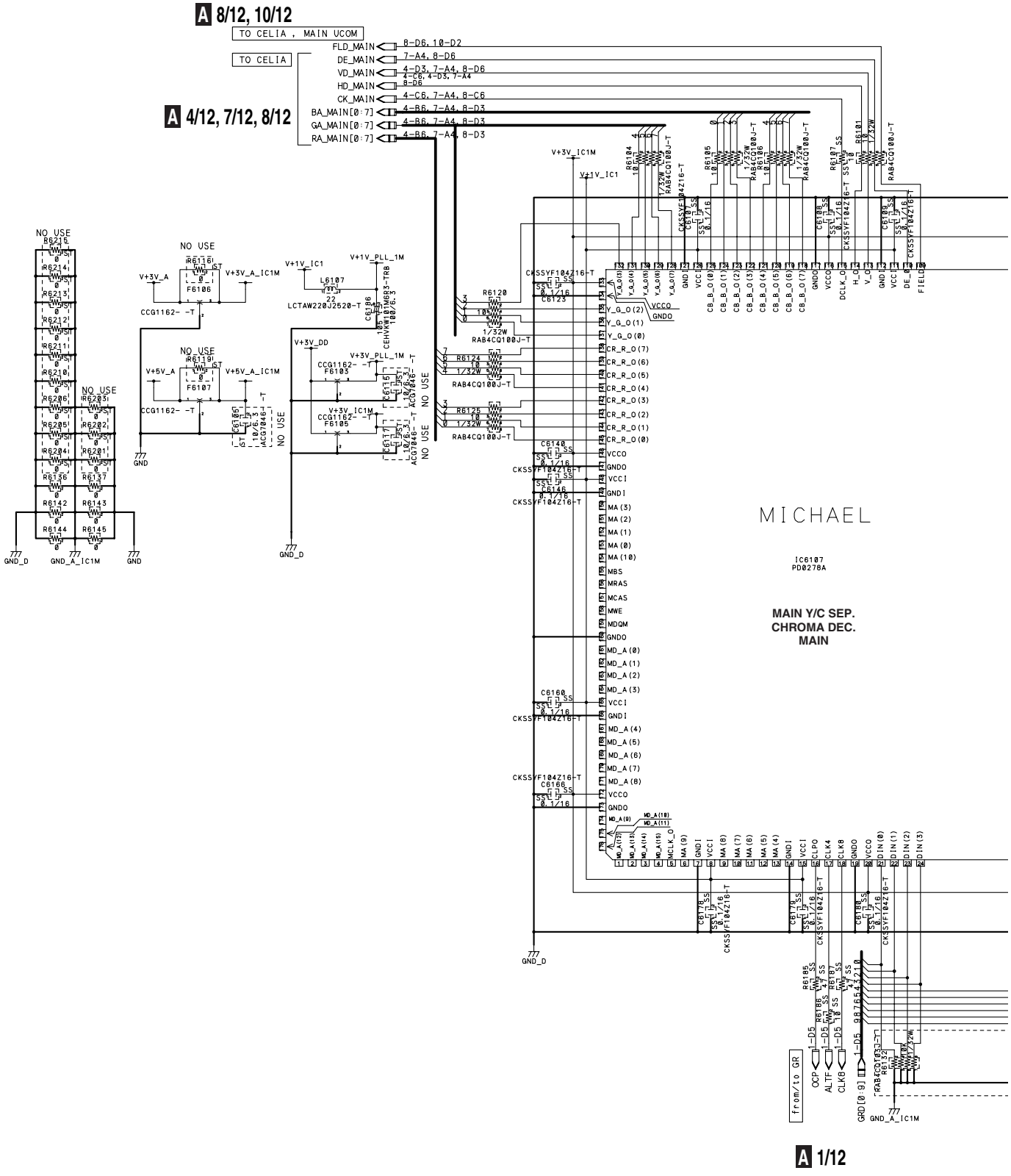
A 1/12


NOT USED
FROM MAIN UCOM
MAIN_UCOM[1:176]
A 2/12-9/12, 11/12-12/12
GR
IC6001
UPD64031AGJ-8EN-A
J
TO/FROM MICHEL MAIN/SUB
NOT USED
A 2/12, 3/12
A 1/12
for J
PDP-R05E
31

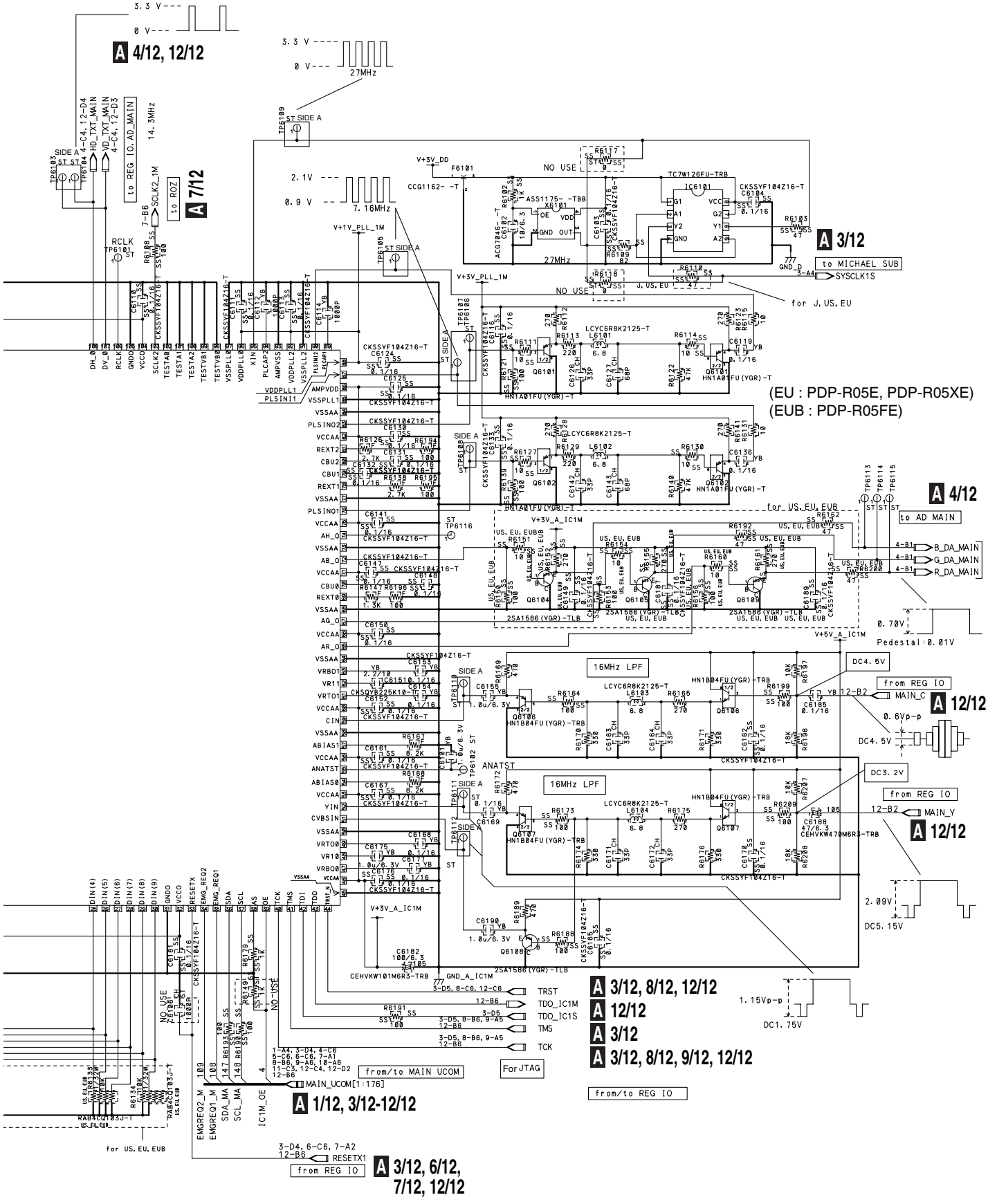
3.4 MR MAIN BOARD ASSY (2/12)

A 2/12 MR MAIN BOARD ASSY (PDP-R05E : AWZ6944)
(PDP-R05XE : AWZ6990)
(PDP-R05FE : AWZ6945)

● **MICHEL MAIN BLOCK**

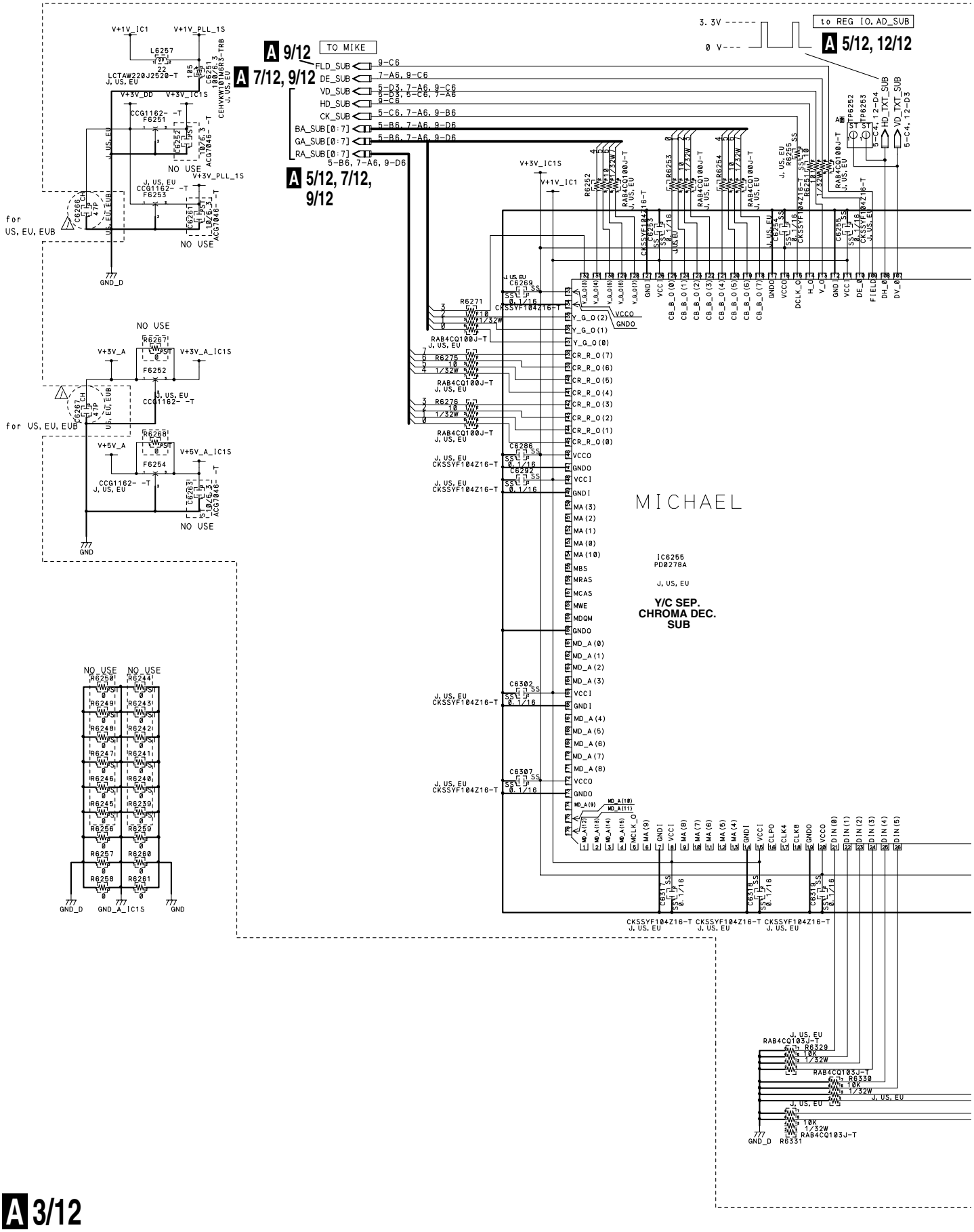


A 2/12


A 4/12, 12/12
A 7/12
A 3/12
A 4/12
A 12/12
A 1/12, 3/12-12/12
A 3/12, 6/12, 7/12, 12/12
A 3/12, 8/12, 12/12
A 12/12
A 3/12
A 3/12, 8/12, 9/12, 12/12
A 2/12
to MICHAEL SUB
SYSCLK1S
(EU : PDP-R05E, PDP-R05XE)
(EUB : PDP-R05FE)
to AD MAIN
B_DA_MAIN
G_DA_MAIN
R_DA_MAIN
from REG IO
MAIN_C
MAIN_Y
from/to MAIN UCOM
MAIN_UCOM[1:176]
from/to REG IO
RESETX1
TRST
TDO_IC1M
TDO_IC1S
TMS
TCK
For JTAG
16MHz LPF
ANATST
27MHz
7.16MHz
14.3MHz
0.70V
Pedestal:0.01V
2.09V
1.15Vp-p
0.6Vp-p
DC4.5V
DC3.2V
DC5.15V
DC1.75V

3.5 MR MAIN BOARD ASSY (3/12)

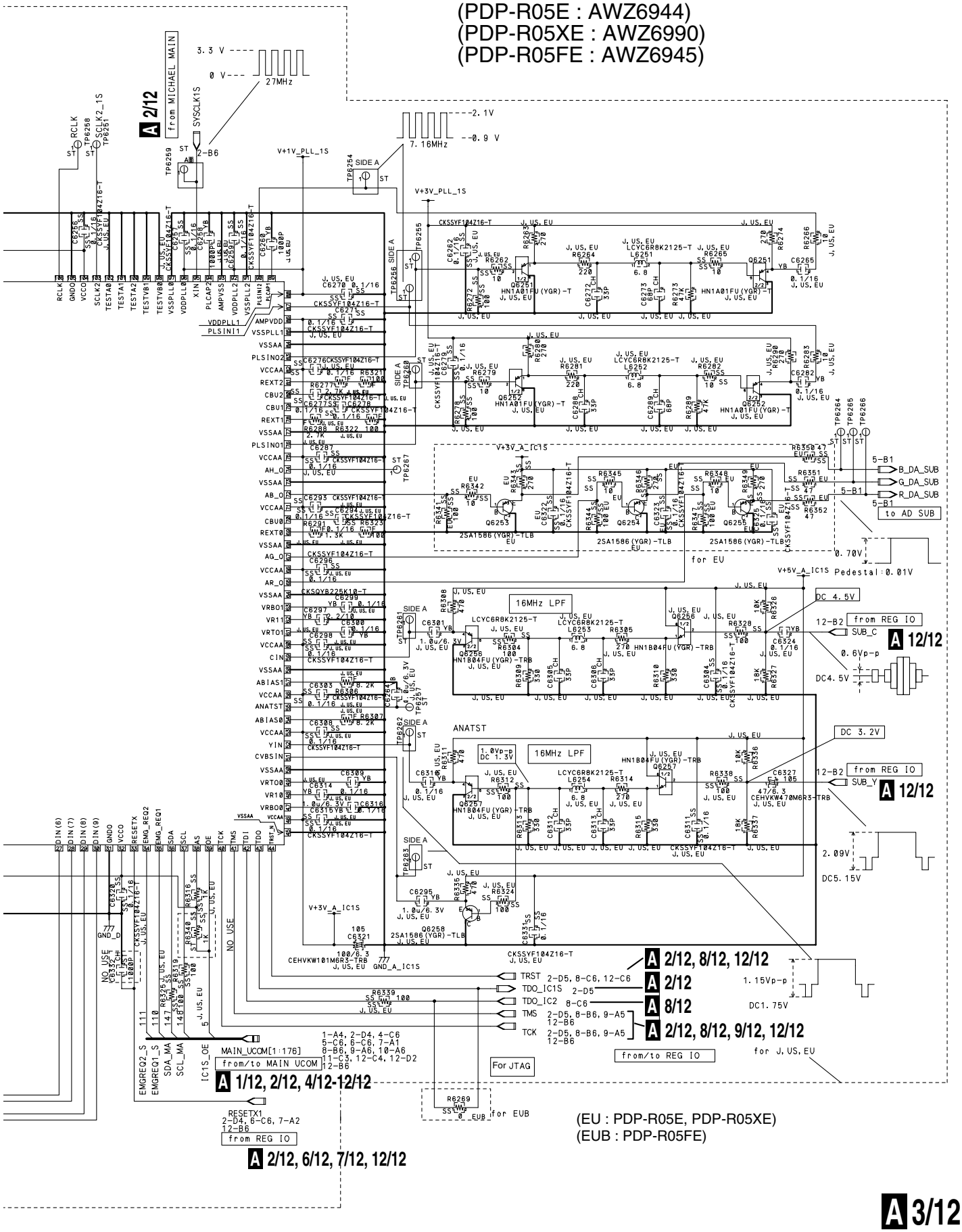
● MICHEL SUB BLOCK



A 3/12

A 3/12 MR MAIN BOARD ASSY

(PDP-R05E : AWZ6944)
(PDP-R05XE : AWZ6990)
(PDP-R05FE : AWZ6945)



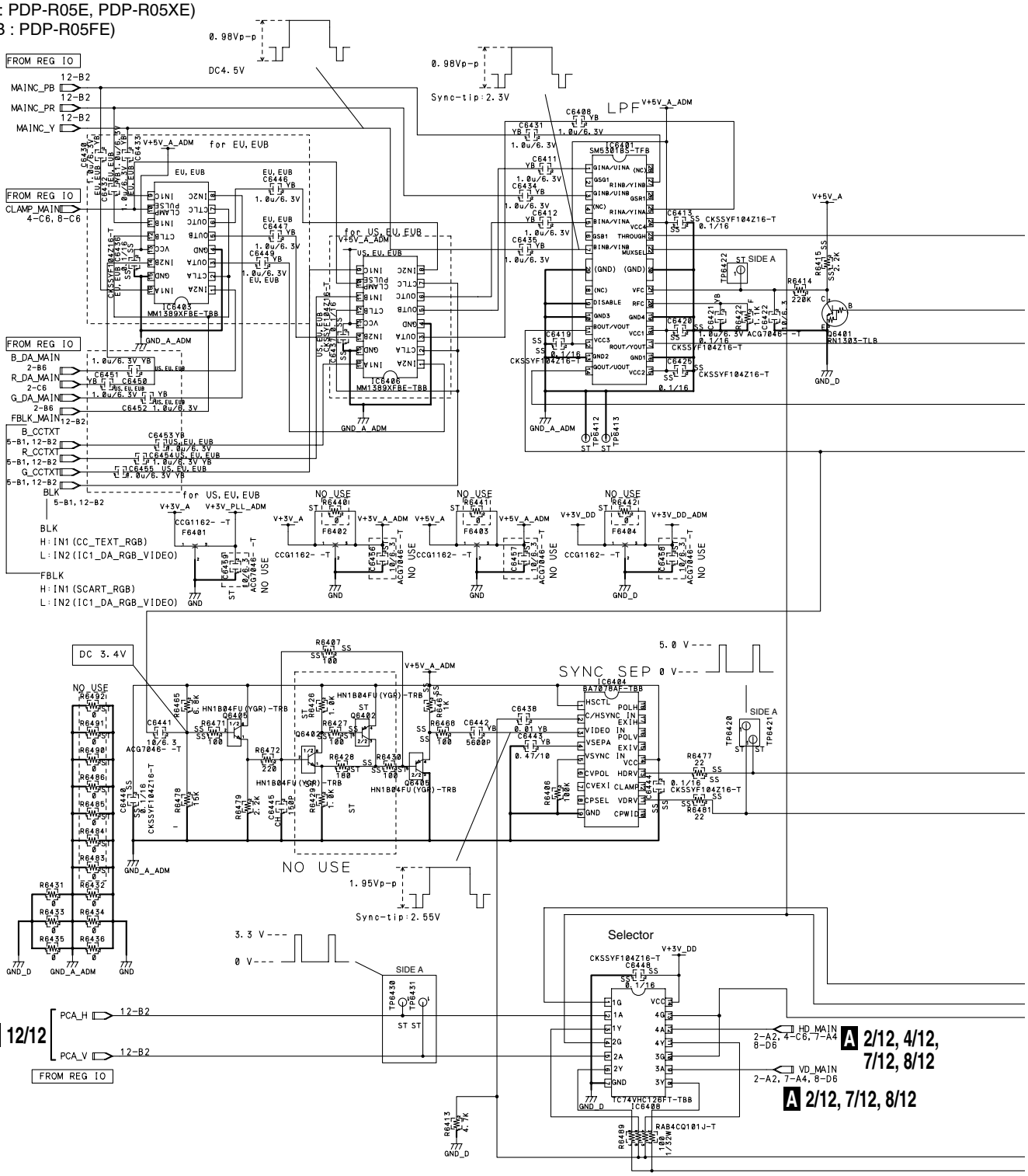
A 3/12

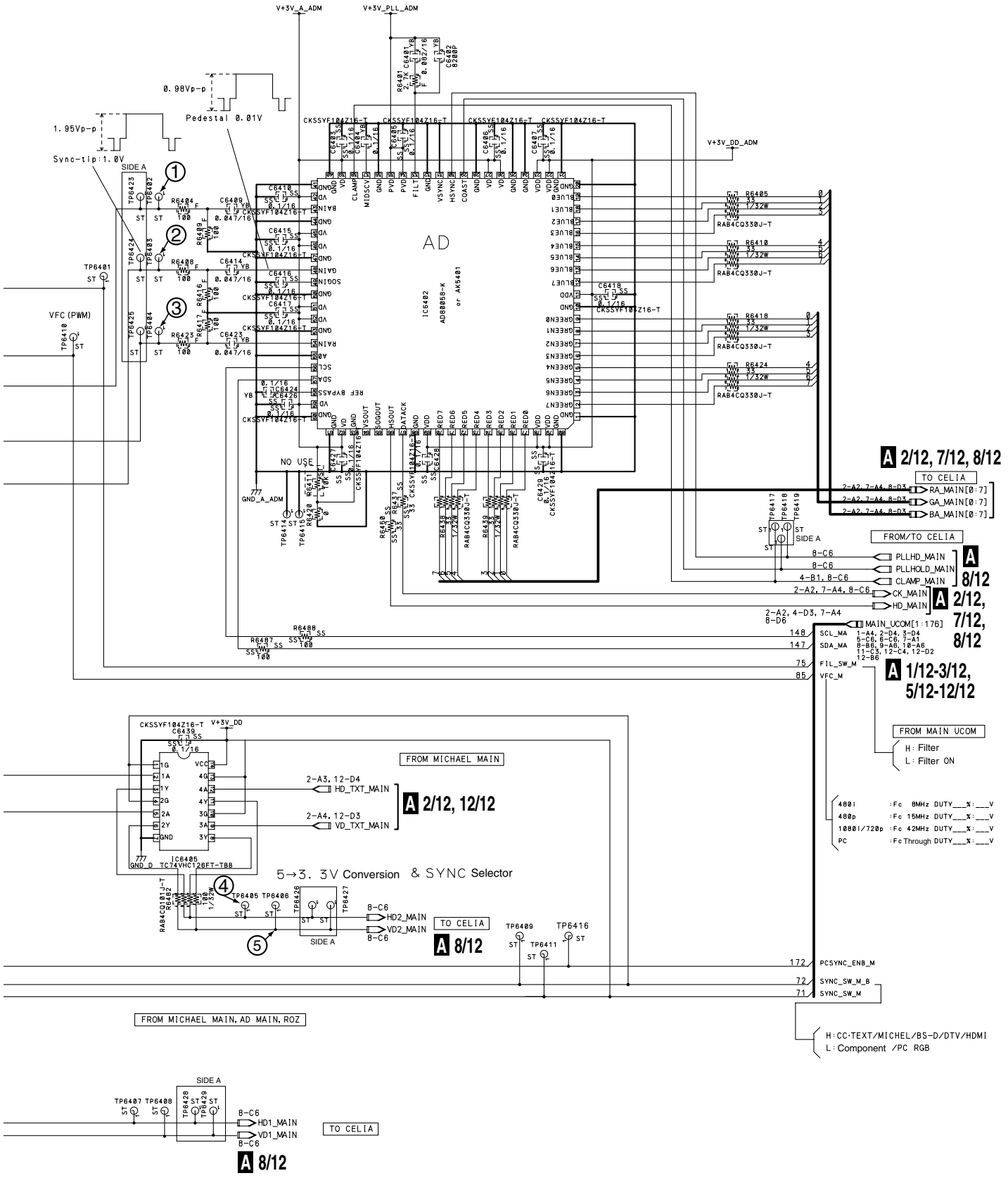
3.6 MR MAIN BOARD ASSY (4/12)

A 4/12 MR MAIN BOARD ASSY (PDP-R05E : AWZ6944) (PDP-R05XE : AWZ6990) (PDP-R05FE : AWZ6945)

● **AD MAIN BLOCK**

(EU : PDP-R05E, PDP-R05XE)
(EUB : PDP-R05FE)

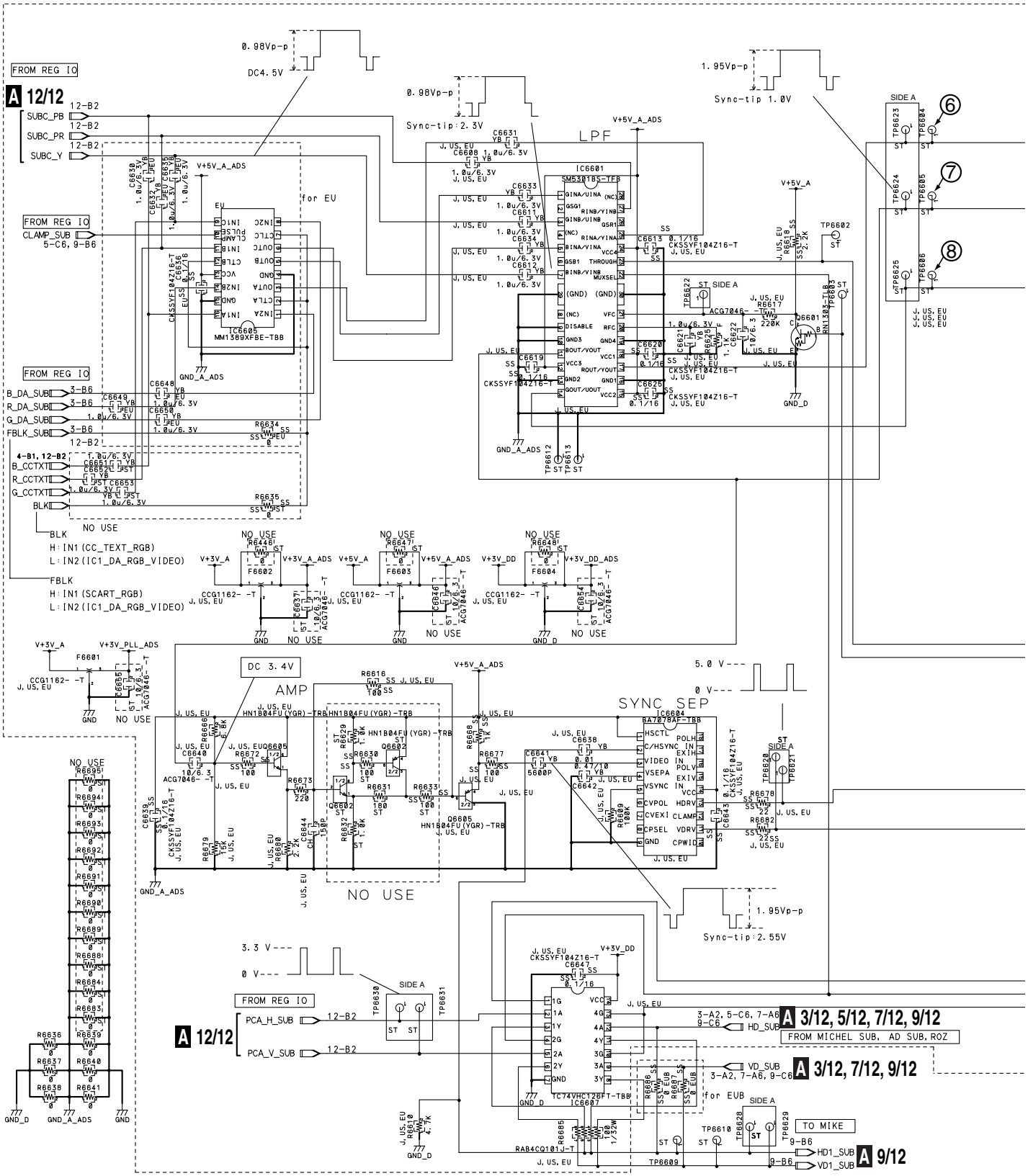



AD
IC6402
AD8005B-K
or AK5401
V+3V_A_ADM
V+3V_PLL_ADM
V+3V_DD_ADM
0.98Vp-p
Pedestal 0.01V
1.95Vp-p
Sync-tip:1.0V
SIDE A
VFC (PWM)
NO USE
GND_A_ADM
TO CELIA
RA_MAIN[0:7]
GA_MAIN[0:7]
BA_MAIN[0:7]
FROM/TO CELIA
PLLHD_MAIN
PLLHOLD_MAIN
CLAMP_MAIN
CK_MAIN
HD_MAIN
MAIN_UCOM[1:176]
SCL_MA
SDA_MA
FIL_SW_M
VFC_M
A 2/12, 7/12, 8/12
A 8/12
A 2/12, 7/12, 8/12
A 1/12-3/12, 5/12-12/12
FROM MAIN UCOM
H : Filter
L : Filter ON
480i :Fc 8MHz DUTY___%:___V
480p :Fc 15MHz DUTY___%:___V
1080I/720p :Fc 42MHz DUTY___%:___V
PC :Fc Through DUTY___%:___V
FROM MICHAEL MAIN
HD_TXT_MAIN
VD_TXT_MAIN
A 2/12, 12/12
IC6405
TC74VHC126FT-TBB
5→3. 3V Conversion & SYNC Selector
HD2_MAIN
VD2_MAIN
A 8/12
PCSYNC_ENB_M
SYNC_SW_M_B
SYNC_SW_M
FROM MICHAEL MAIN, AD MAIN, ROZ
H:CC·TEXT/MICHEL/BS-D/DTV/HDMI
L:Component /PC RGB
HD1_MAIN
VD1_MAIN
A 8/12
A 4/12

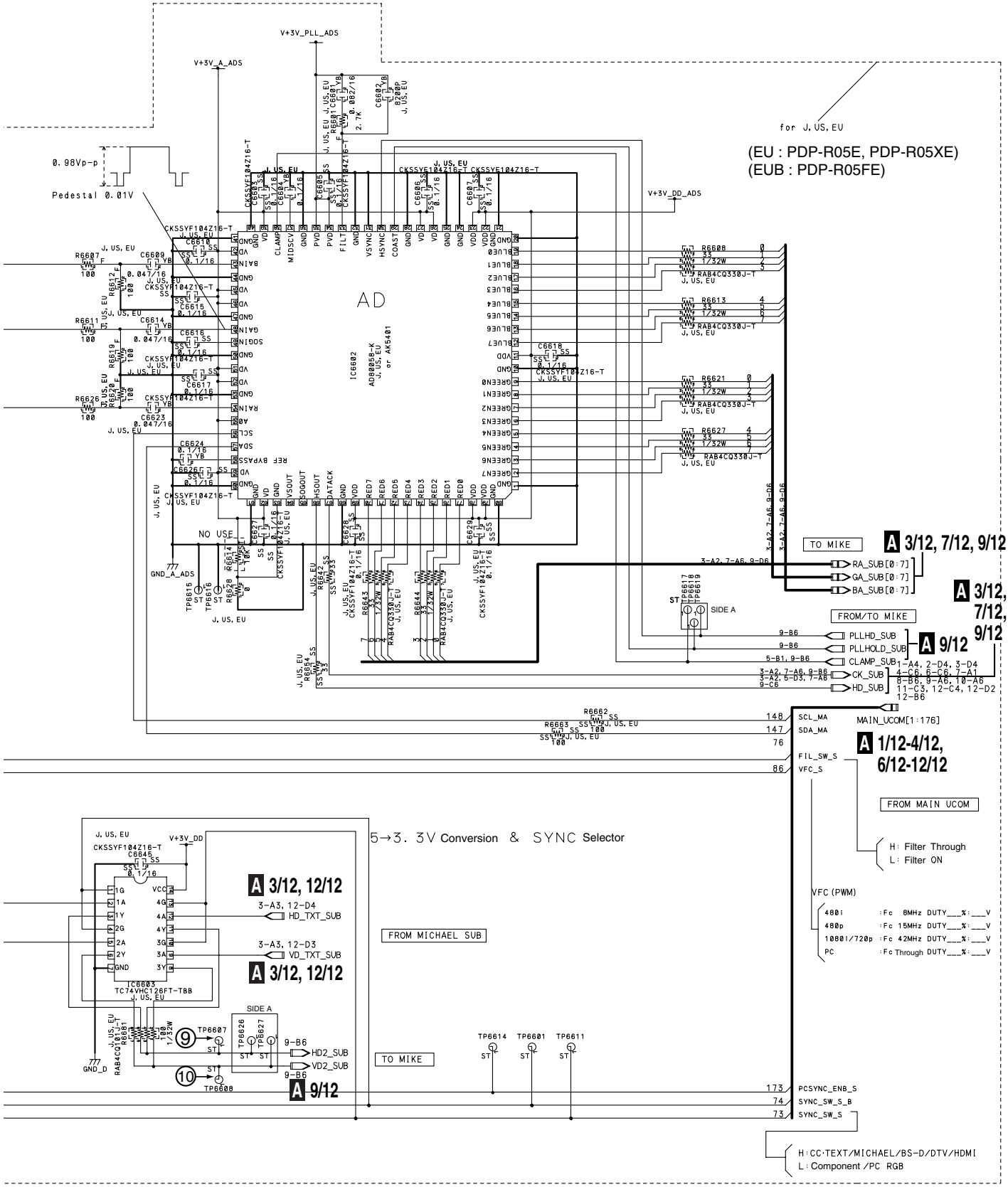
3.7 MR MAIN BOARD ASSY (5/12)

A 5/12 MR MAIN BOARD ASSY (PDP-R05E : AWZ6944) (PDP-R05XE : AWZ6990) (PDP-R05FE : AWZ6945)

● **AD SUB BLOCK**



A 5/12

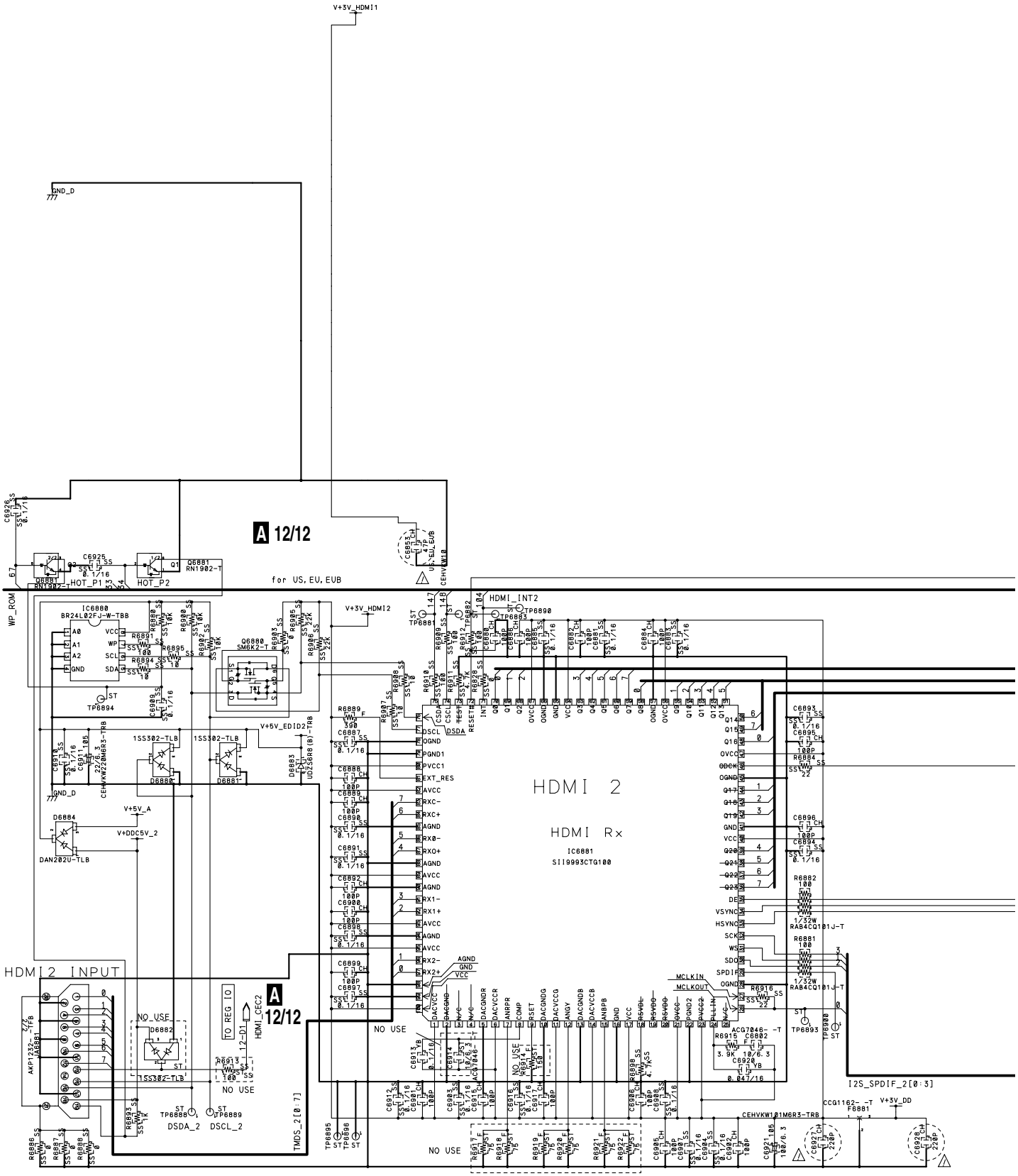

for J, US, EU
(EU : PDP-R05E, PDP-R05XE)
(EUB : PDP-R05FE)
V+3V_PLL_ADS
V+3V_A_ADS
V+3V_DD_ADS
0.98Vp-p
Pedestal 0.01V
AD
IC6602
AD8805A-K
J, US, EU
or AK5401
NO USE
GND_A_ADS
TO MIKE
A 3/12, 7/12, 9/12
RA_SUB[0:7]
GA_SUB[0:7]
BA_SUB[0:7]
A 3/12, 7/12, 9/12
FROM/TO MIKE
PLLHD_SUB
PLLHOLD_SUB
CLAMP_SUB
CK_SUB
HD_SUB
A 9/12
1-A4, 2-D4, 3-D4
4-C6, 6-C6, 7-A1
8-B6, 9-A6, 10-A6
11-C3, 12-C4, 12-D2
12-B6
SIDE A
MAIN_UCOM[1:176]
SCL_MA
SDA_MA
FIL_SW_S
VFC_S
A 1/12-4/12, 6/12-12/12
FROM MAIN UCOM
H: Filter Through
L: Filter ON
VFC (PWM)
480i :Fc 8MHz DUTY___%:___V
480p :Fc 15MHz DUTY___%:___V
1080i/720p :Fc 42MHz DUTY___%:___V
PC :Fc Through DUTY___%:___V
5→3. 3V Conversion & SYNC Selector
IC6603
TC74VHC126FT-TBB
A 3/12, 12/12
HD_TXT_SUB
VD_TXT_SUB
A 3/12, 12/12
FROM MICHAEL SUB
HD2_SUB
VD2_SUB
A 9/12
TO MIKE
PCSYNC_ENB_S
SYNC_SW_S_B
SYNC_SW_S
H: CC·TEXT/MICHAEL/BS-D/DTV/HDMI
L: Component /PC RGB
A 5/12

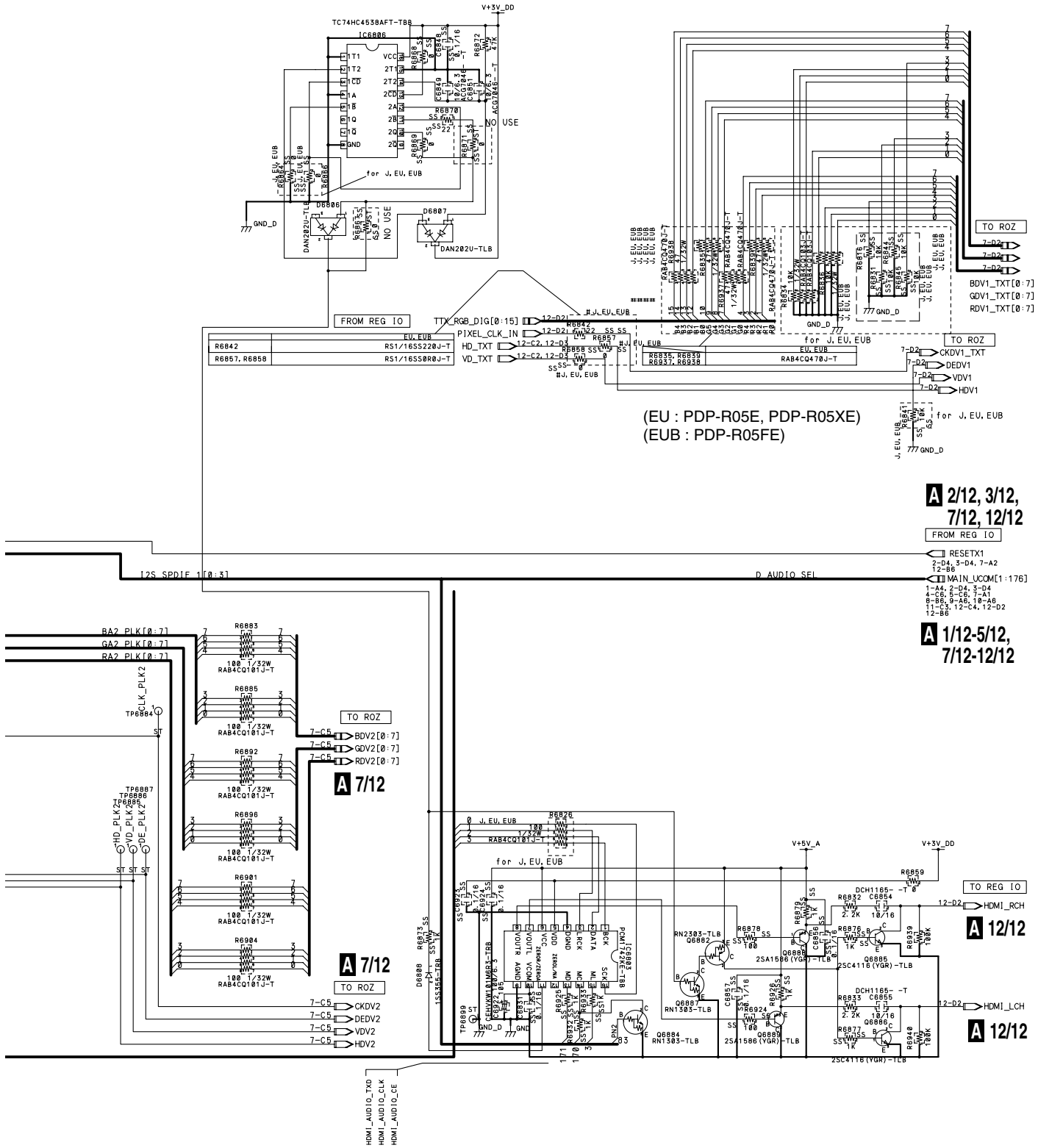
3.8 MR MAIN BOARD ASSY (6/12)

A 6/12 MR MAIN BOARD ASSY

(PDP-R05E : AWZ6944)
(PDP-R05XE : AWZ6990)
(PDP-R05FE : AWZ6945)

● **HDMI RX BLOCK**

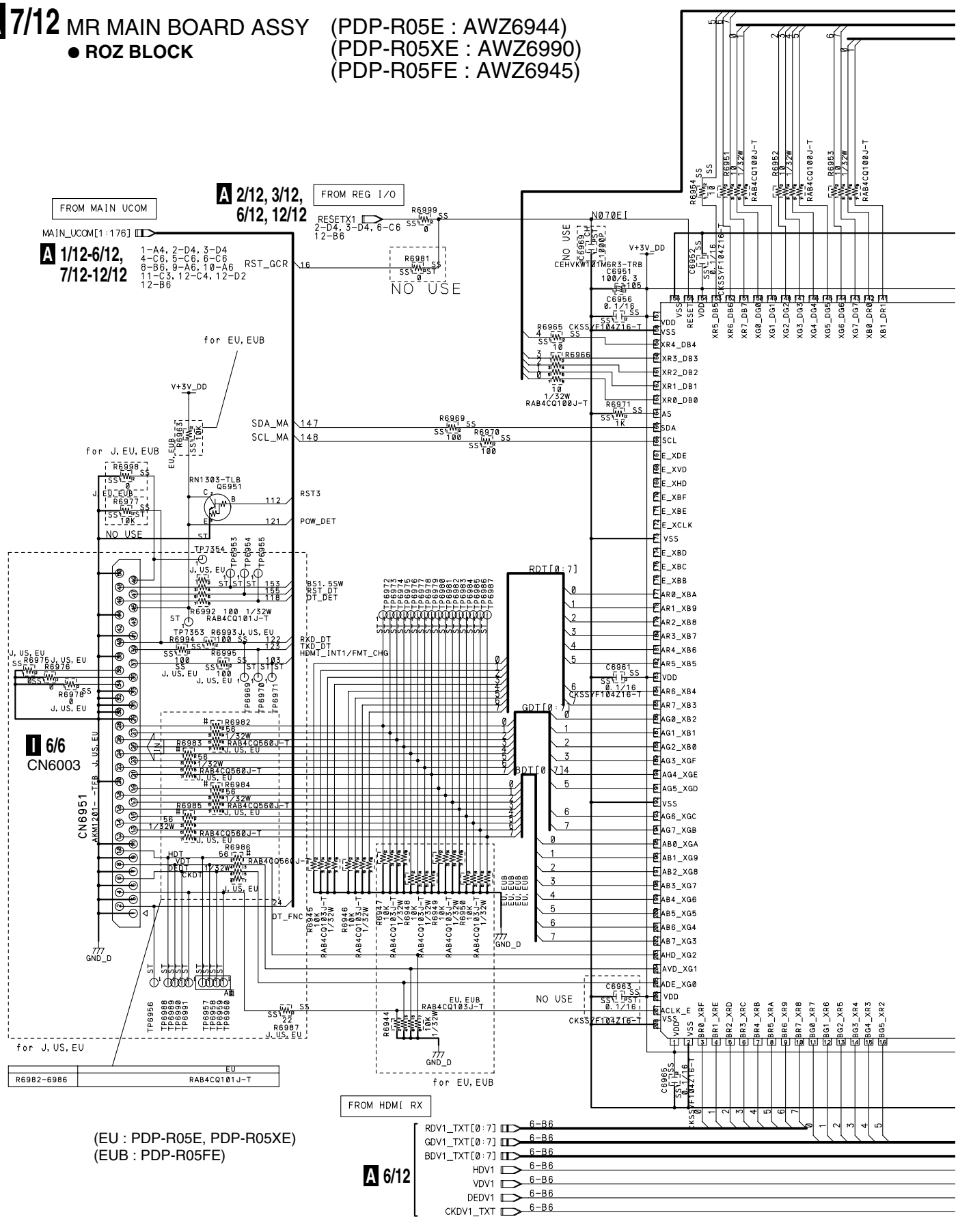



TC74HC4538AFT-TBB
IC6806
V+3V_DD
NO USE
for J, EU, EUB
GND_D
DAN202U-TLB
FROM REG IO
TTX_RGB_DIG[0:15]
PIXEL_CLK_IN
HD_TXT
VD_TXT
R6842
R6857, R6858
RS1/16SS220J-T
RS1/16SS0R0J-T
R6835, R6839
R6837, R6838
RAB4CQ470J-T
TO ROZ
BDV1_TXT[0:7]
GDV1_TXT[0:7]
RDV1_TXT[0:7]
CKDV1_TXT
DEDV1
VDV1
HDV1
(EU : PDP-R05E, PDP-R05XE)
(EUB : PDP-R05FE)
A 2/12, 3/12, 7/12, 12/12
RESETX1
MAIN_UCOM[1:176]
I2S SPDIF 1[0:3]
D AUDIO SEL
A 1/12-5/12, 7/12-12/12
RA2 PLK[0:7]
GA2 PLK[0:7]
BA2 PLK[0:7]
CLK_PLK2
HD_PLK2
VD_PLK2
DE_PLK2
BDV2[0:7]
GDV2[0:7]
RDV2[0:7]
A 7/12
CKDV2
DEDV2
VDV2
HDV2
A 7/12
V+5V_A
V+3V_DD
TO REG IO
HDMI_RCH
HDMI_LCH
A 12/12
A 12/12
HDMI_AUDIO_TXD
HDMI_AUDIO_CLK
HDMI_AUDIO_CE
A 6/12

3.9 MR MAIN BOARD ASSY (7/12)

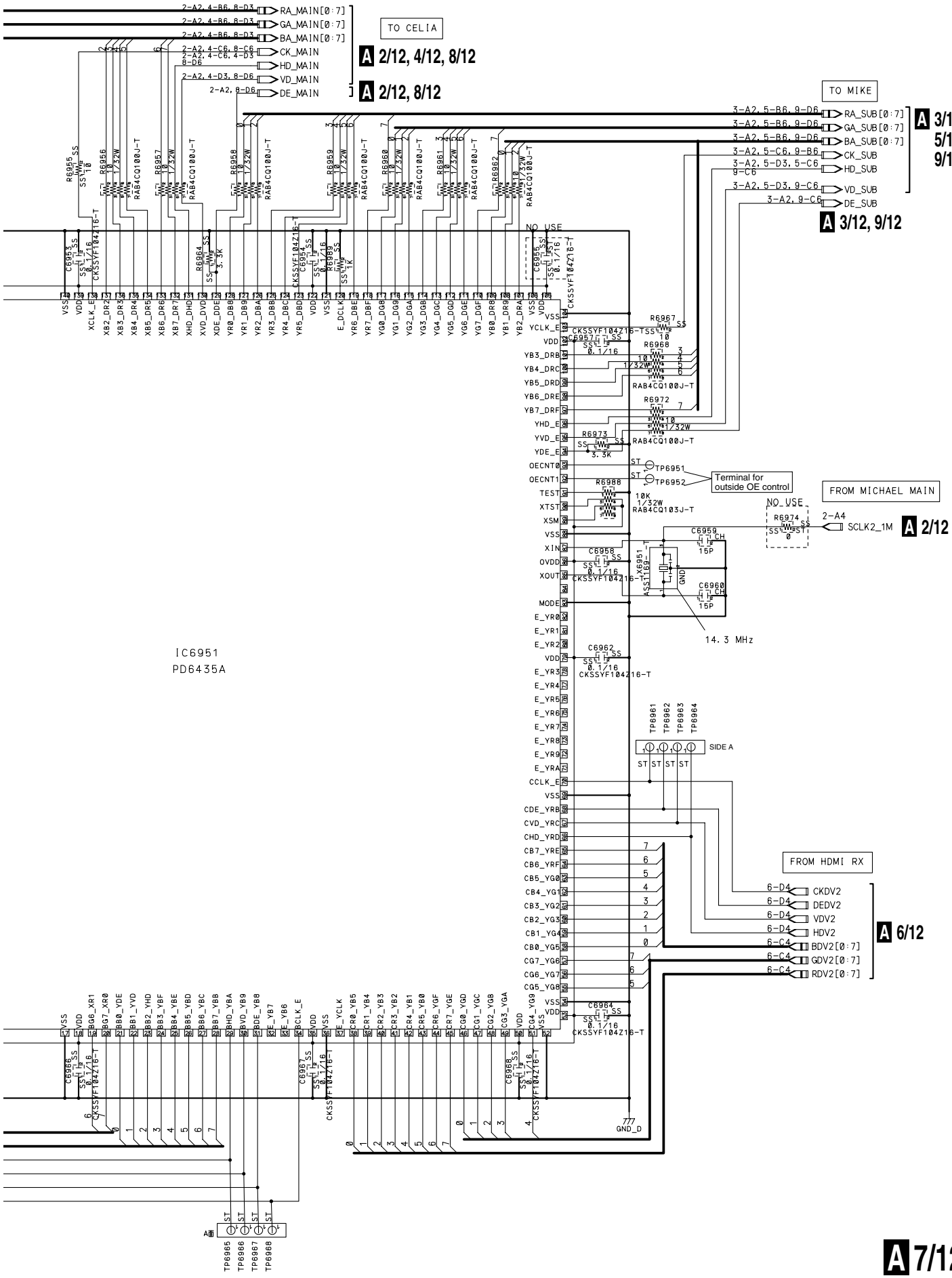
A 7/12 MR MAIN BOARD ASSY (PDP-R05E : AWZ6944) (PDP-R05XE : AWZ6990) (PDP-R05FE : AWZ6945)

● **ROZ BLOCK**



(EU : PDP-R05E, PDP-R05XE)
(EUB : PDP-R05FE)

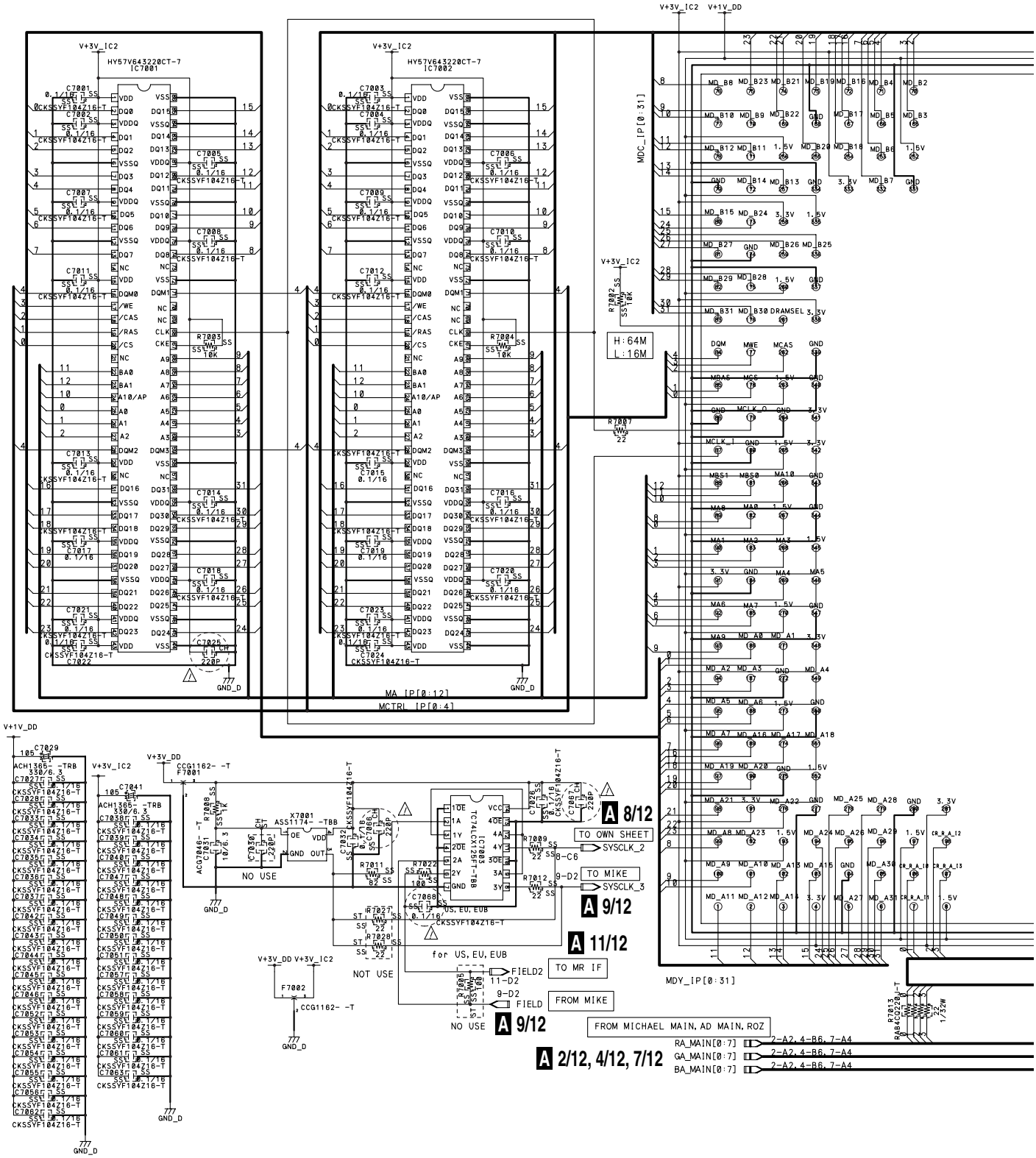
A 7/12


TO CELIA
A 2/12, 4/12, 8/12
A 2/12, 8/12
TO MIKE
A 3/12, 5/12, 9/12
A 3/12, 9/12
NO USE
IC6951
PD6435A
Terminal for outside OE control
FROM MICHAEL MAIN
A 2/12
FROM HDMI RX
A 6/12
SIDE A
14.3 MHz
A 7/12

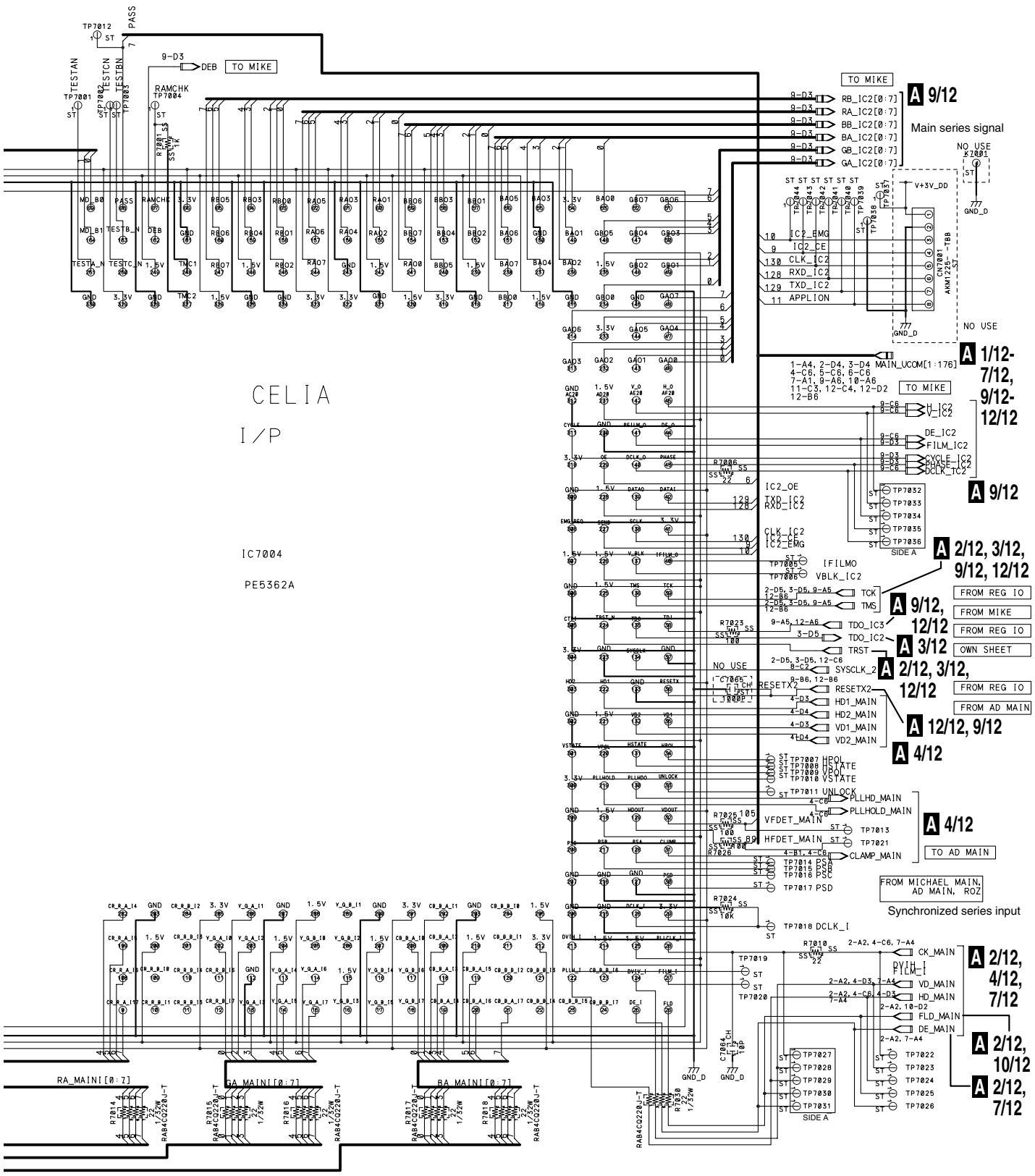
3.10 MR MAIN BOARD ASSY (8/12)

A 8/12 MR MAIN BOARD ASSY (PDP-R05E : AWZ6944)
(PDP-R05XE : AWZ6990)
(PDP-R05FE : AWZ6945)

● **CELIA BLOCK**



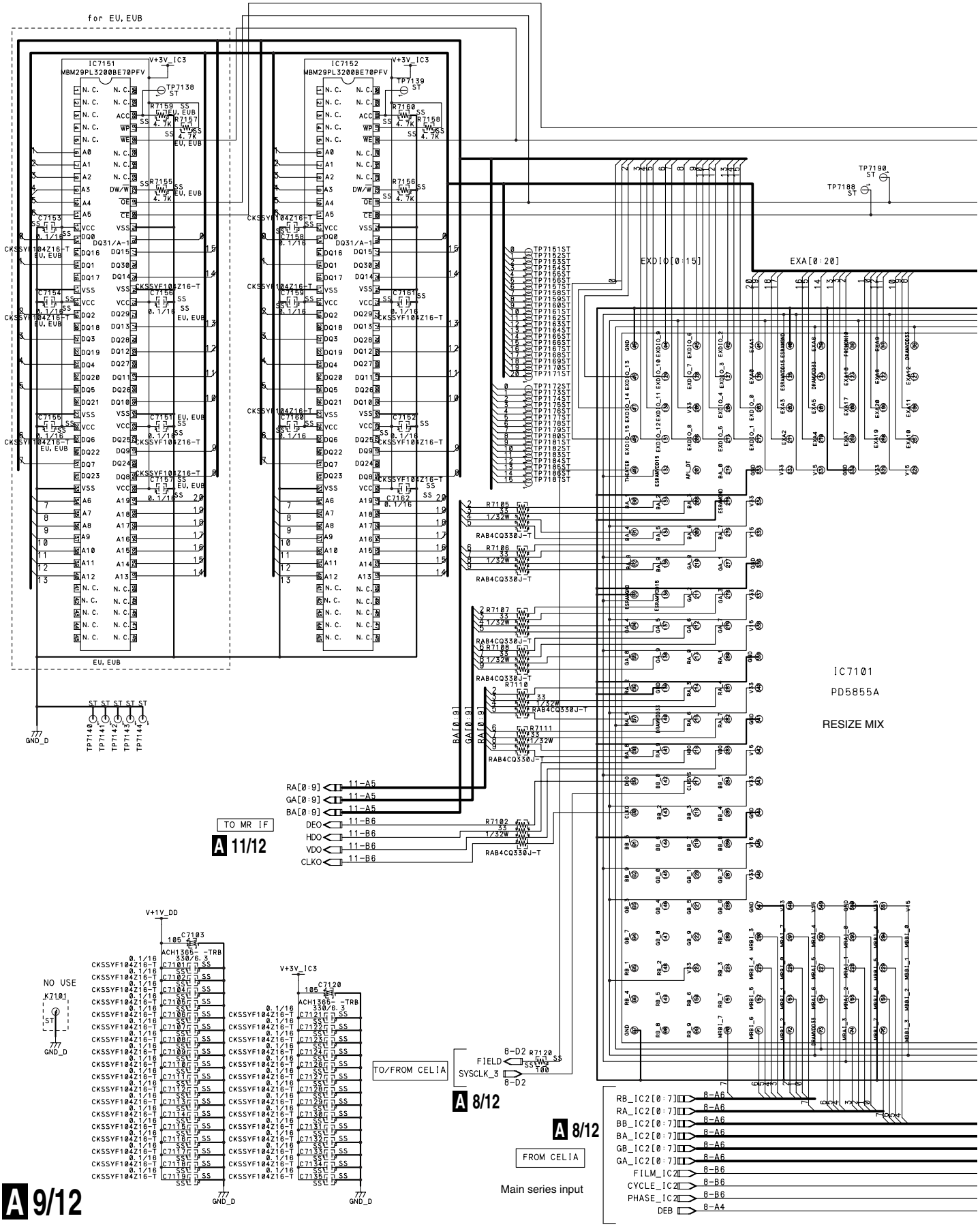
A 8/12

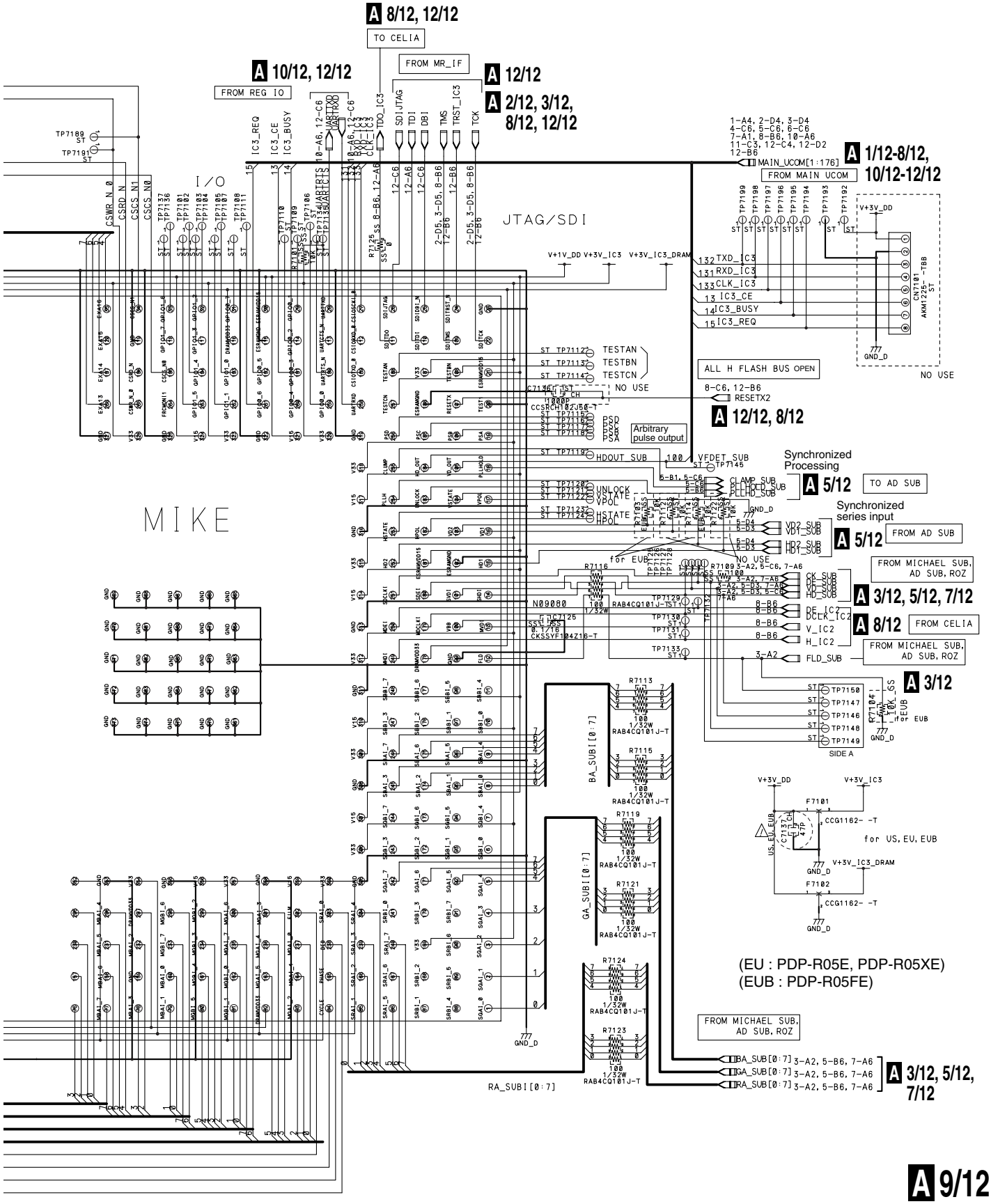

CELIA
I/P
IC7004
PE5362A
TO MIKE
Main series signal
NO USE
TO AD MAIN
FROM MICHAEL MAIN, AD MAIN, ROZ
Synchronized series input
SIDE A
A 9/12
A 1/12-7/12, 9/12-12/12
A 2/12, 3/12, 9/12, 12/12
A 9/12, 12/12
A 3/12
A 2/12, 3/12, 12/12
A 12/12, 9/12
A 4/12
A 2/12, 4/12, 7/12
A 2/12, 10/12
A 2/12, 7/12
A 8/12

3.11 MR MAIN BOARD ASSY (9/12)

A 9/12 MR MAIN BOARD ASSY (PDP-R05E : AWZ6944) (PDP-R05XE : AWZ6990) (PDP-R05FE : AWZ6945)

● **MIKE BLOCK**

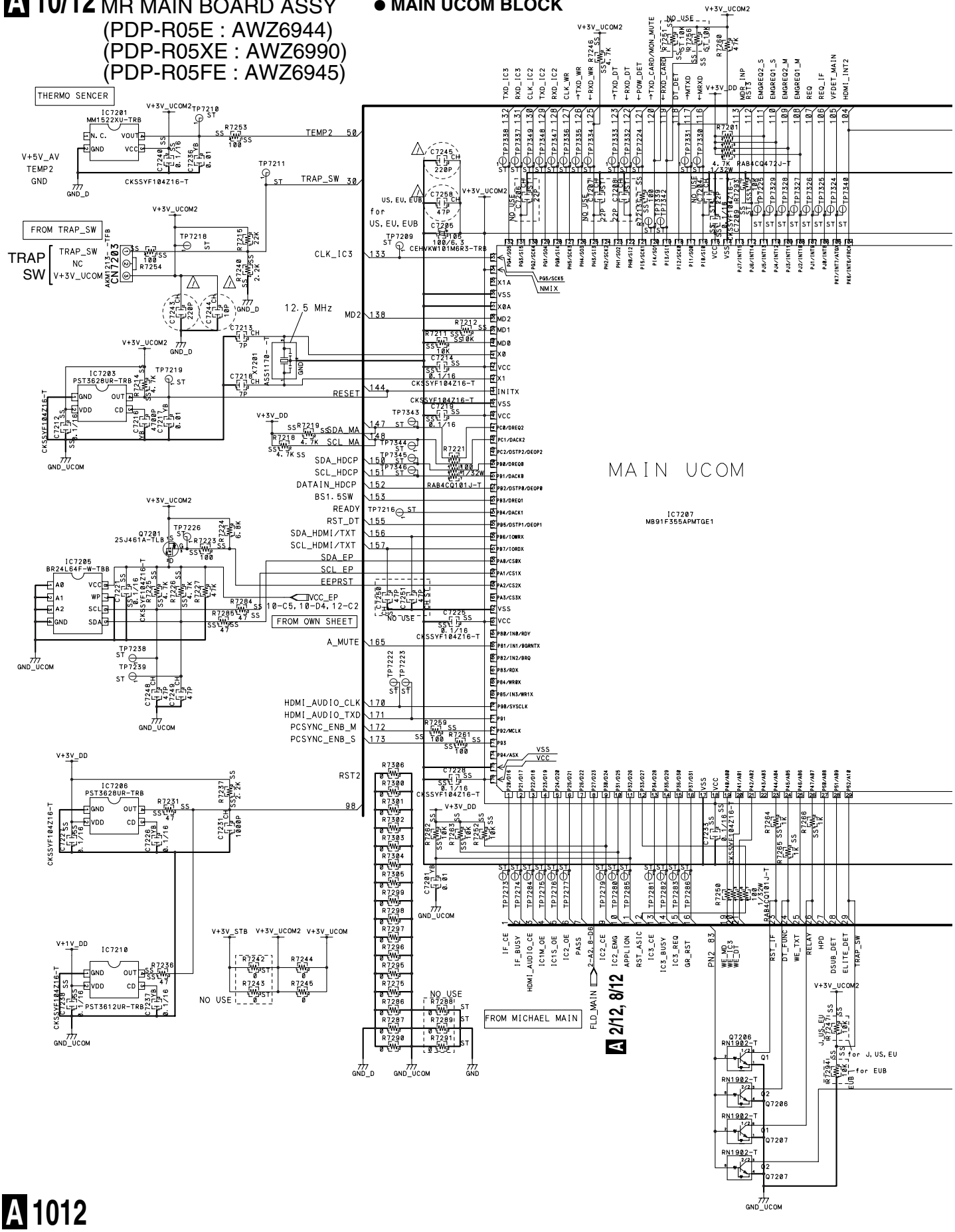



A 8/12, 12/12
TO CELIA
FROM MR_IF
A 12/12
A 2/12, 3/12, 8/12, 12/12
A 10/12, 12/12
FROM REG IO
I/O
JTAG/SDI
MIKE
FROM MAIN UCOM
A 1/12-8/12, 10/12-12/12
ALL H FLASH BUS OPEN
NO USE
A 12/12, 8/12
Arbitrary pulse output
Synchronized Processing
A 5/12
TO AD SUB
Synchronized series input
FROM AD SUB
FROM MICHAEL SUB, AD SUB, ROZ
A 3/12, 5/12, 7/12
A 8/12
FROM CELIA
A 3/12
SIDE A
for EUB
for US, EU, EUB
(EU : PDP-R05E, PDP-R05XE)
(EUB : PDP-R05FE)
A 3/12, 5/12, 7/12
A 9/12

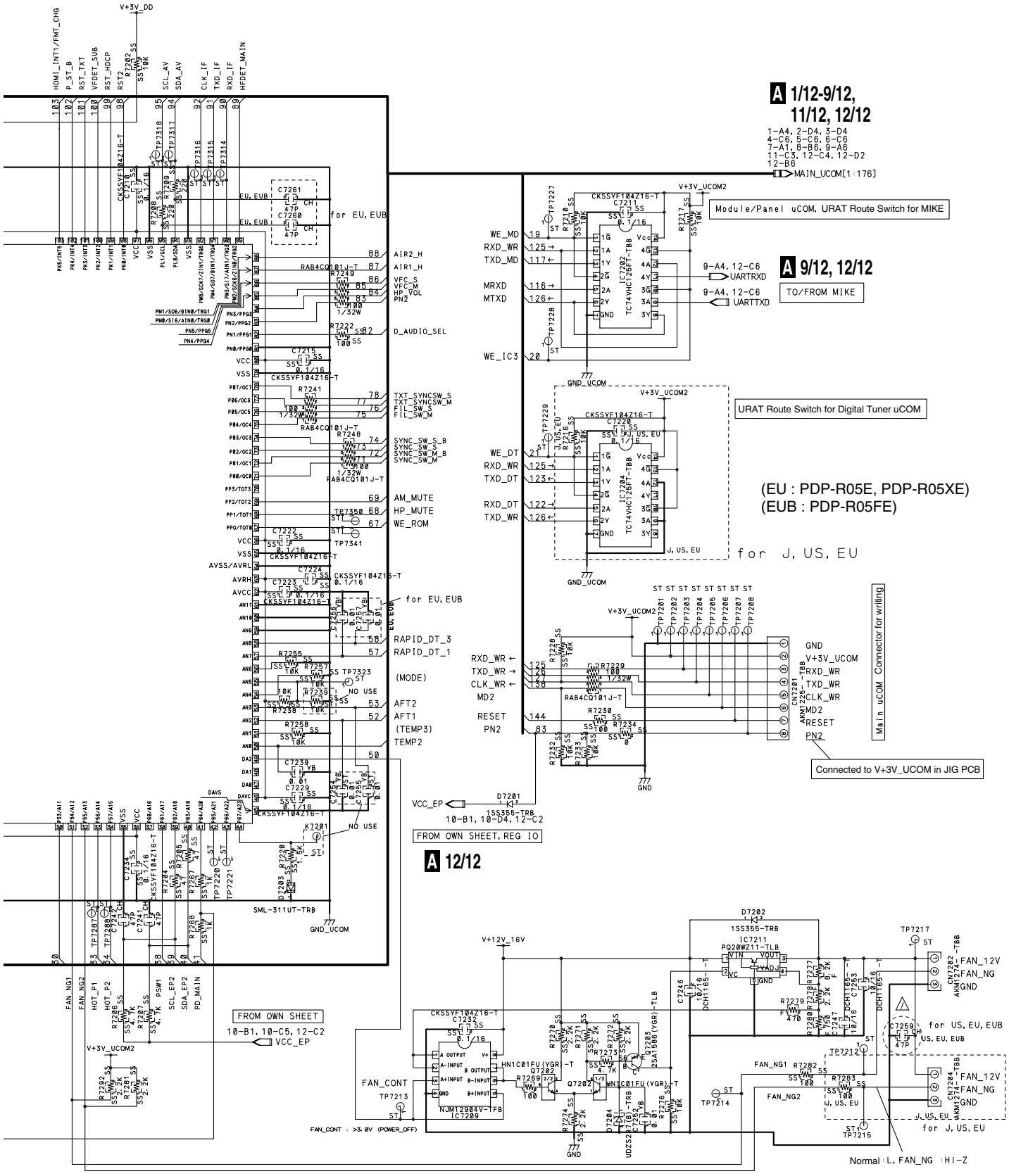
3.12 MR MAIN BOARD ASSY (10/12)

A 10/12 MR MAIN BOARD ASSY
(PDP-R05E : AWZ6944)
(PDP-R05XE : AWZ6990)
(PDP-R05FE : AWZ6945)

● **MAIN UCOM BLOCK**



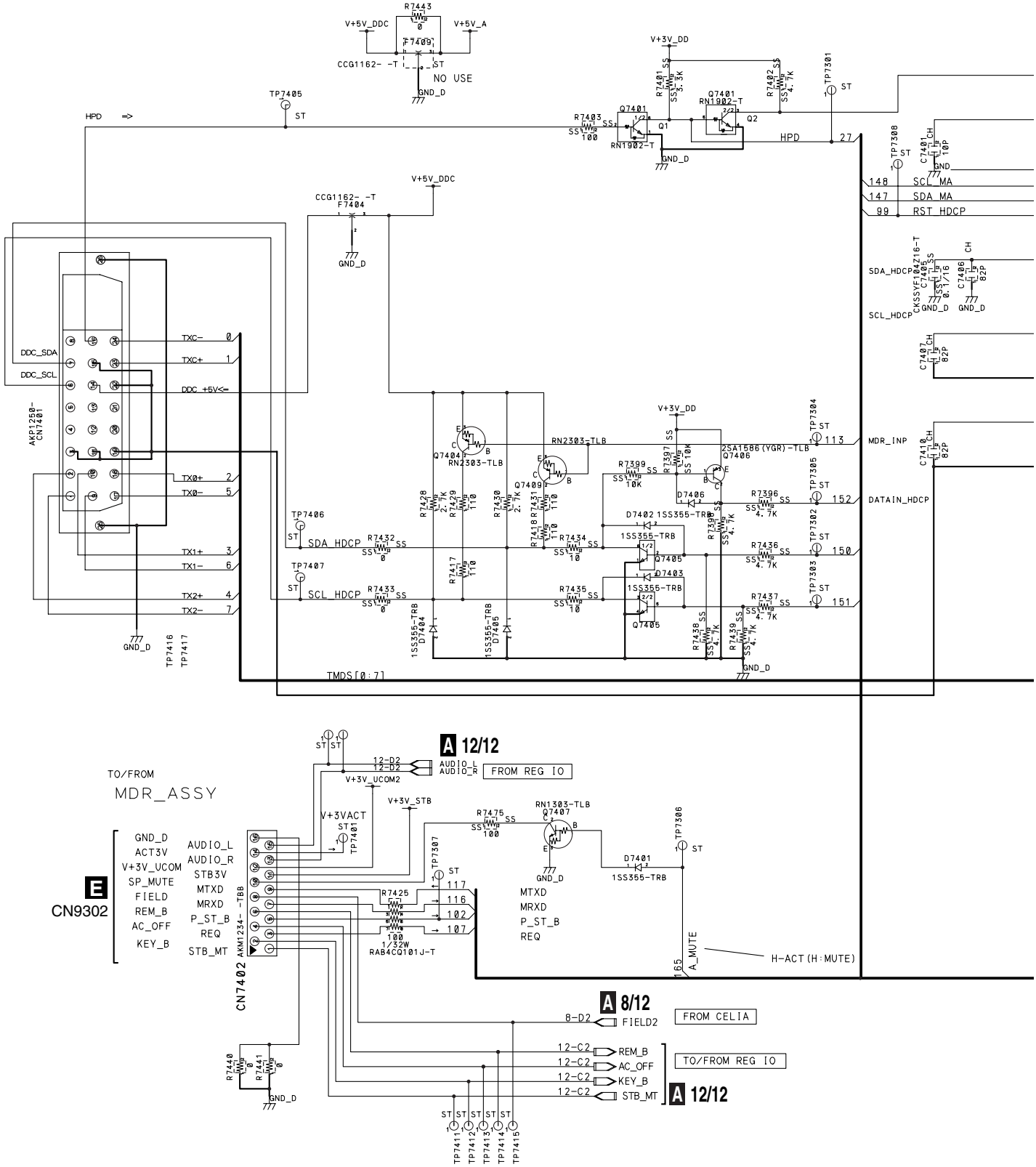
A 1012


A 1/12-9/12, 11/12, 12/12
1-A4, 2-D4, 3-D4
4-C6, 5-C6, 6-C6
7-A1, 8-B6, 9-A6
11-C3, 12-C4, 12-D2
12-B6
MAIN_UCOM[1:176]
Module/Panel uCOM, URAT Route Switch for MIKE
A 9/12, 12/12
TO/FROM MIKE
9-A4, 12-C6 UARTRXD
9-A4, 12-C6 UARTTXD
URAT Route Switch for Digital Tuner uCOM
(EU : PDP-R05E, PDP-R05XE)
(EUB : PDP-R05FE)
for J, US, EU
Main uCOM Connector for writing
Connected to V+3V_UCOM in JIG PCB
FROM OWN SHEET, REG IO
A 12/12
FROM OWN SHEET
10-B1, 10-C5, 12-C2
VCC_EP
10-B1, 10-D4, 12-C2
FAN_CONT : >3.0V (POWER_OFF)
Normal : L, FAN_NG : Hi-Z
A 10/12

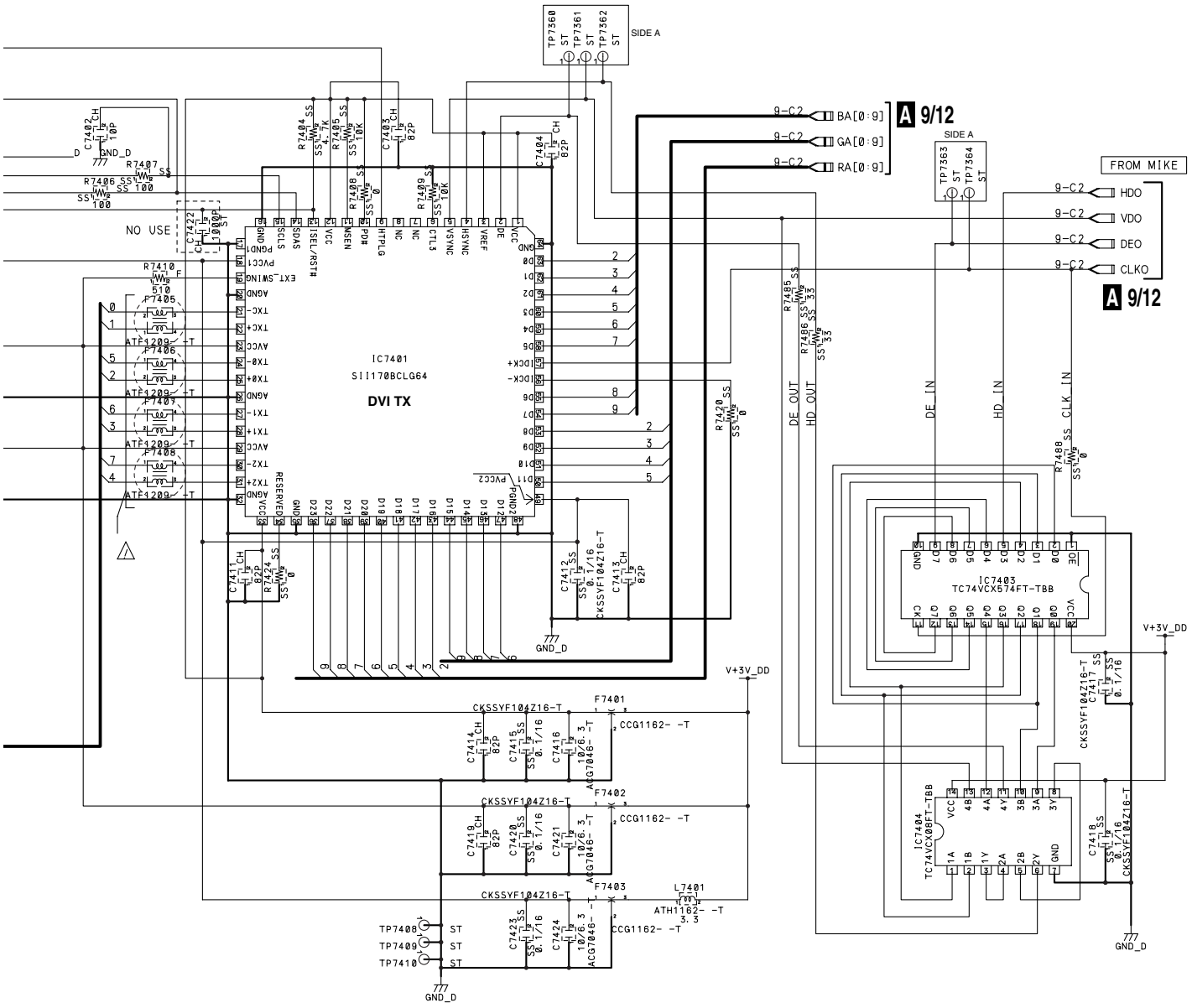
3.13 MR MAIN BOARD ASSY (11/12)

A 11/12 MR MAIN BOARD ASSY (PDP-R05E : AWZ6944) (PDP-R05XE : AWZ6990) (PDP-R05FE : AWZ6945)

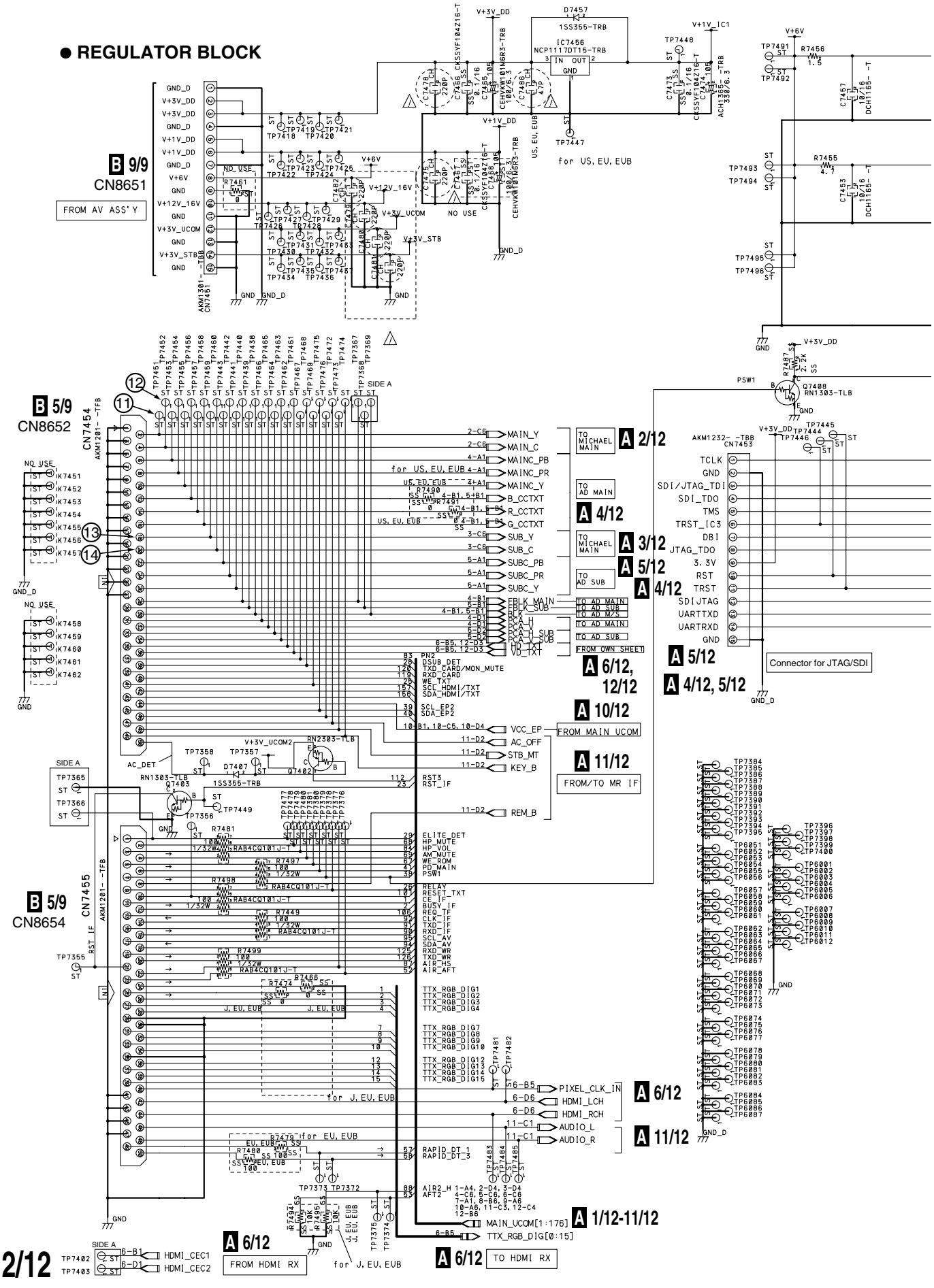
● **MR I/F BLOCK**



A 11/12

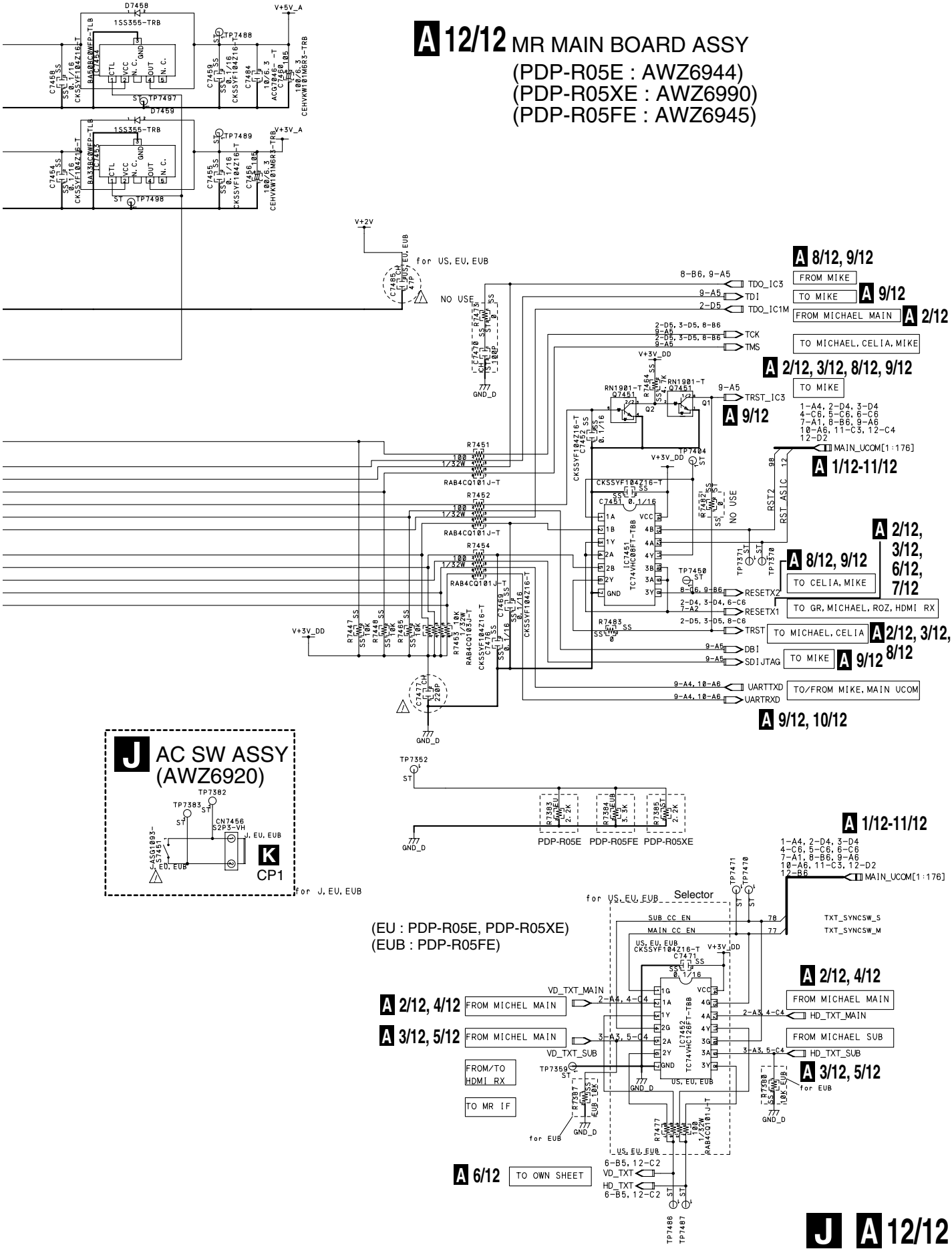

IC7401
SII170BCLG64
DVI TX
NO USE
SIDE A
FROM MIKE
BA[0:9]
GA[0:9]
RA[0:9]
HDO
VDO
DEO
CLKO
DE OUT
HD OUT
DE IN
HD IN
CLK IN
IC7403
TC74VCX574FT-TBB
IC7404
TC74VCX08FT-TBB
V+3V_DD
GND_D
CKSSYF104Z16-T
CCG1162- -T
ACG7046- -T
ATH1162- -T
MAIN_UCOM[1:176]
TO MAIN UCOM
A 9/12
A 1/12-10/12, 12/12
A 11/12

3.14 MR MAIN BOARD ASSY (12/12)



A 12/12 MR MAIN BOARD ASSY

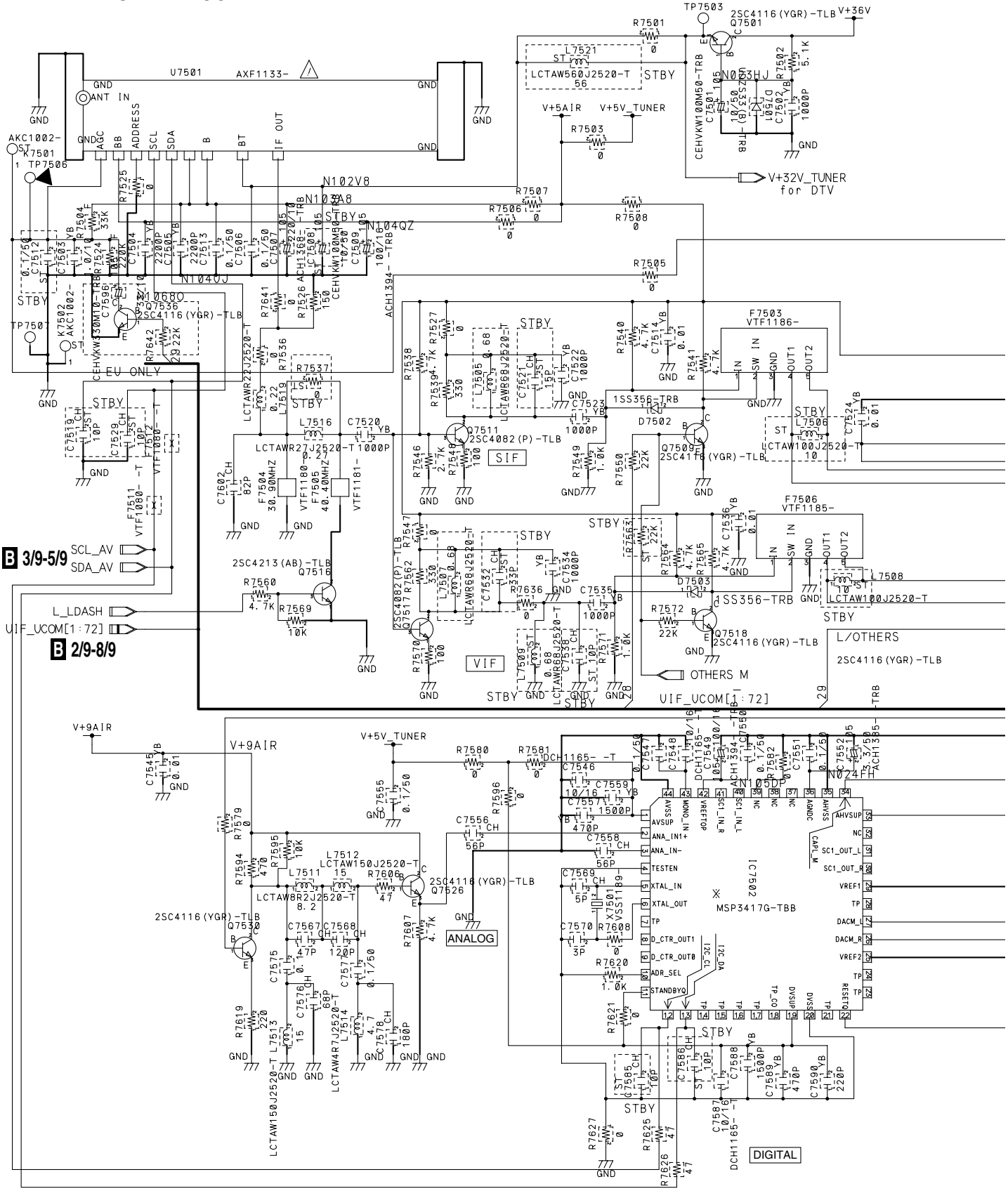
(PDP-R05E : AWZ6944)
(PDP-R05XE : AWZ6990)
(PDP-R05FE : AWZ6945)



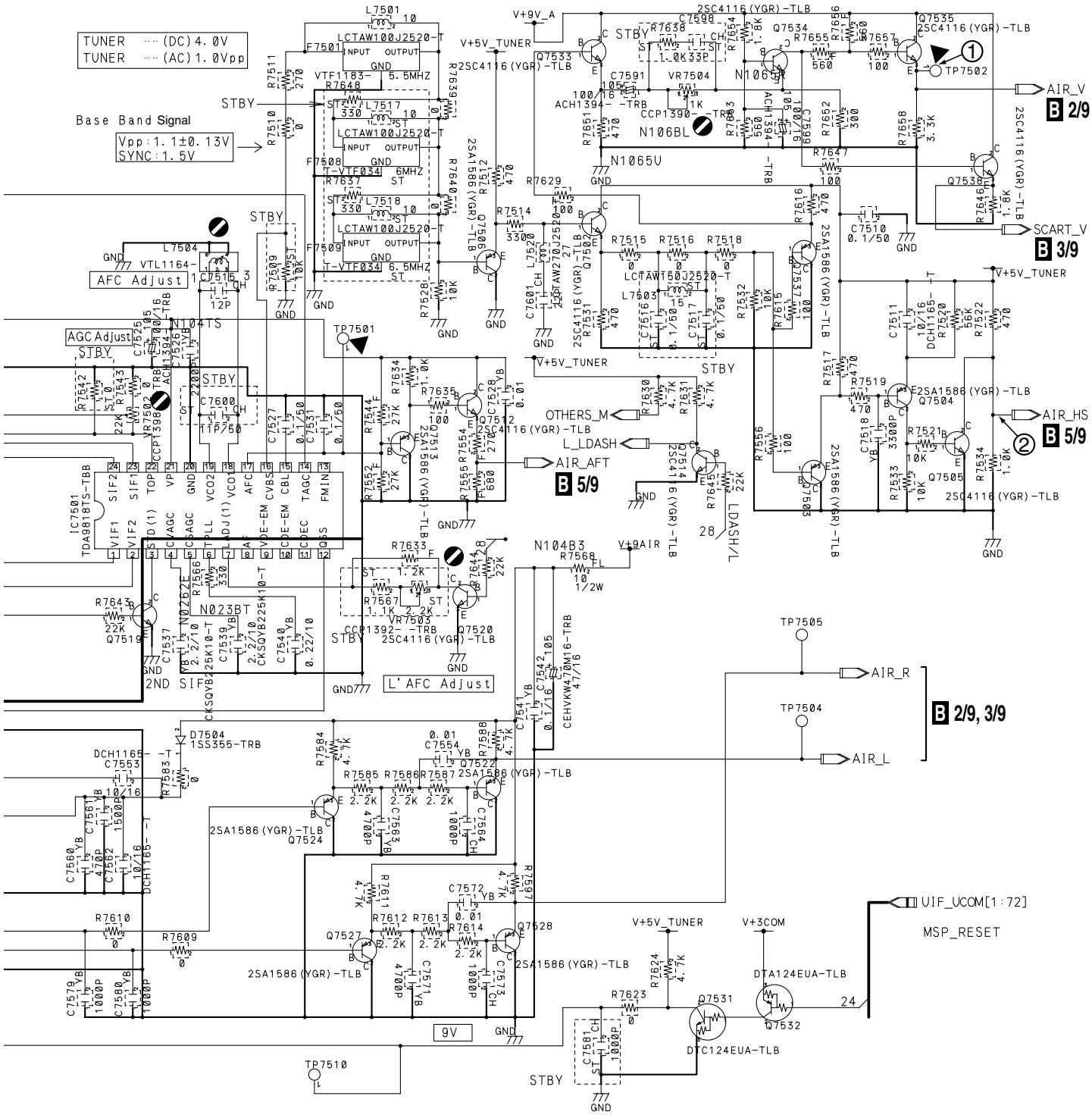
3.15 AV BOARD ASSY (1/9)

B 1/9 AV BOARD ASSY (PDP-R05E : AWZ6946) (PDP-R05XE : AWZ6986) (PDP-R05FE : AWZ6947)

● **TUNER BLOCK**



B 1/9

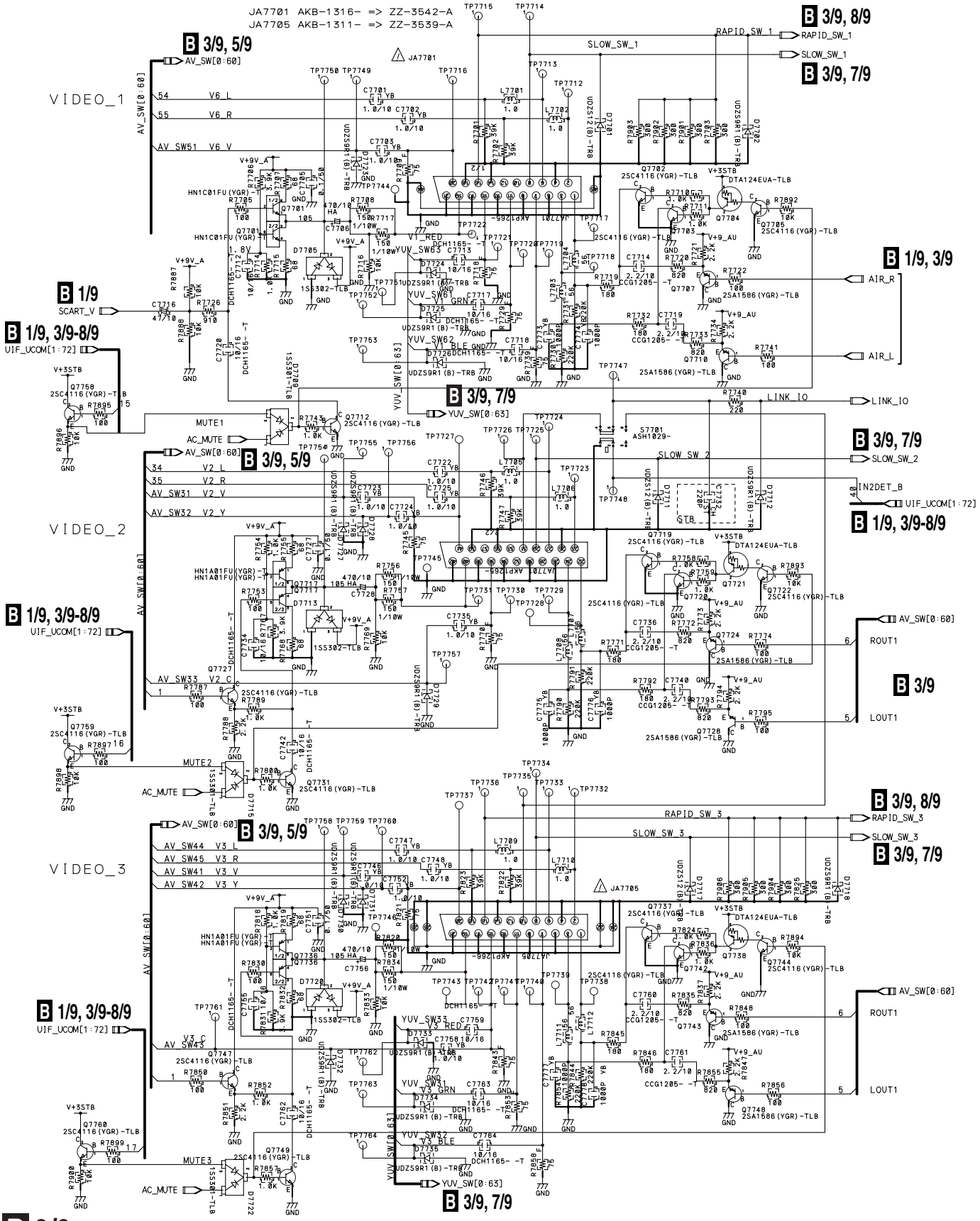

TUNER ···(DC)4.0V
TUNER ···(AC)1.0Vpp
Base Band Signal
Vpp:1.1±0.13V
SYNC:1.5V
STBY
AFC Adjust
AGC Adjust
L'AFC Adjust
2ND SIF
9V
V+9V_A
V+5V_TUNER
V+3COM
V+9AIR
AIR_V
B 2/9
SCART_V
B 3/9
AIR_HS
B 5/9
AIR_AFT
B 5/9
AIR_R
AIR_L
B 2/9, 3/9
OTHERS_M
L_LDASH
LDASH_L
VIF_UCOM[1:72]
MSP_RESET
TP7501
TP7502
TP7504
TP7505
TP7510
IC7501
TDA9818TS-TBB
N104TS
N106BT
N106BL
N1065U
N104B3
N023BT
Q7519
Q7520
Q7522
Q7524
Q7527
Q7528
Q7531
Q7532
DTA124EUA-TLB
DTC124EUA-TLB
2SA1586(YGR)-TLB
2SC4116(YGR)-TLB
GND

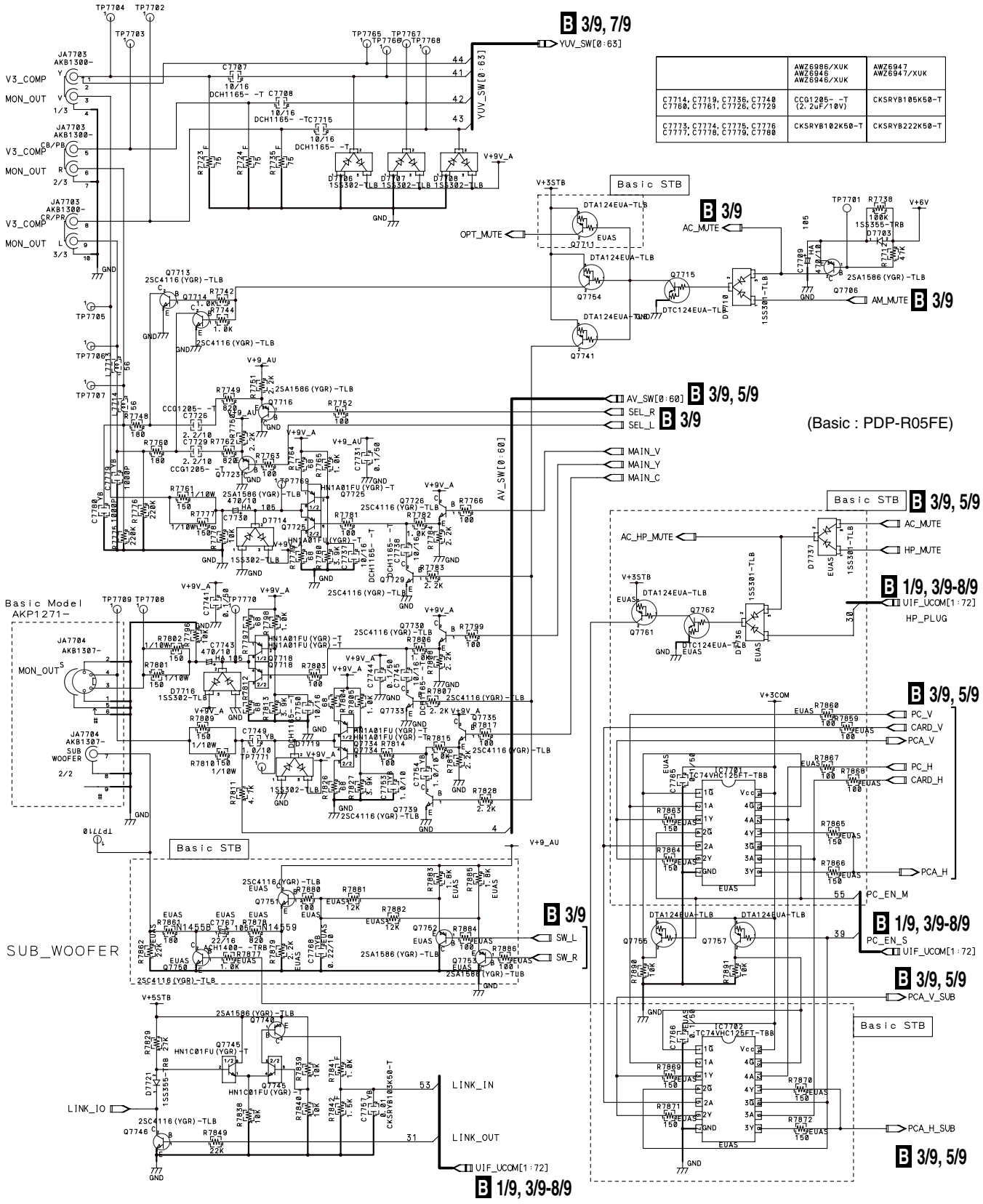
B 1/9

3.16 AV BOARD ASSY (2/9)

B 2/9 AV BOARD ASSY (PDP-R05E : AWZ6946) (PDP-R05XE : AWZ6986) (PDP-R05FE : AWZ6947)

● **AV I/O BLOCK**





	AWZ6986/XUK AWZ6946 AWZ6946/XUK	AWZ6947 AWZ6947/XUK
C7714, C7719, C7736, C7740 C7760, C7761, C7726, C7729	CCG1205- -T (2.2uF/10V)	CKSRYB105K50-T
C7773, C7774, C7775, C7776 C7777, C7778, C7779, C7780	CKSRYB102K50-T	CKSRYB222K50-T

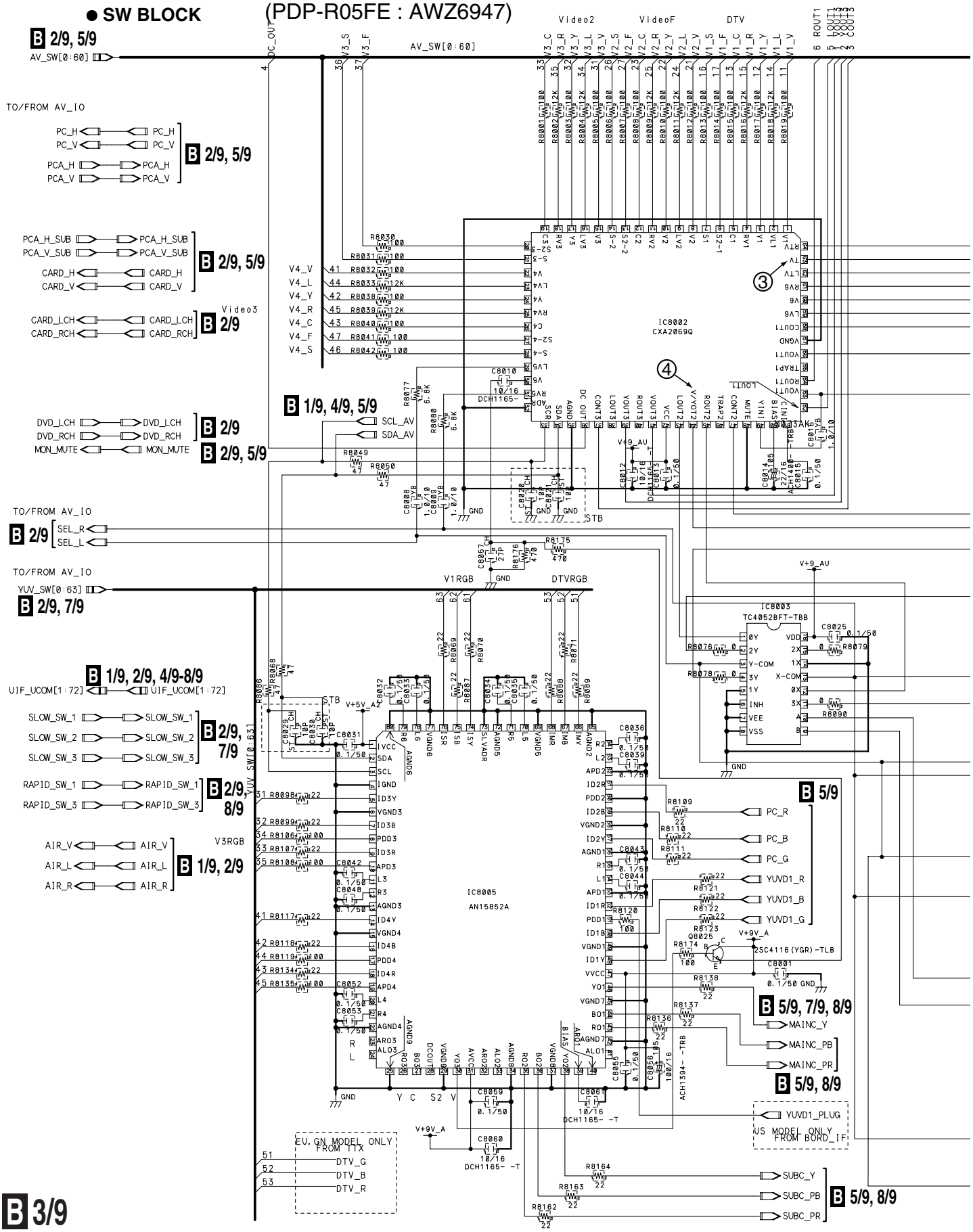
With the ⚠ mark, be sure to use parts of identical designation.

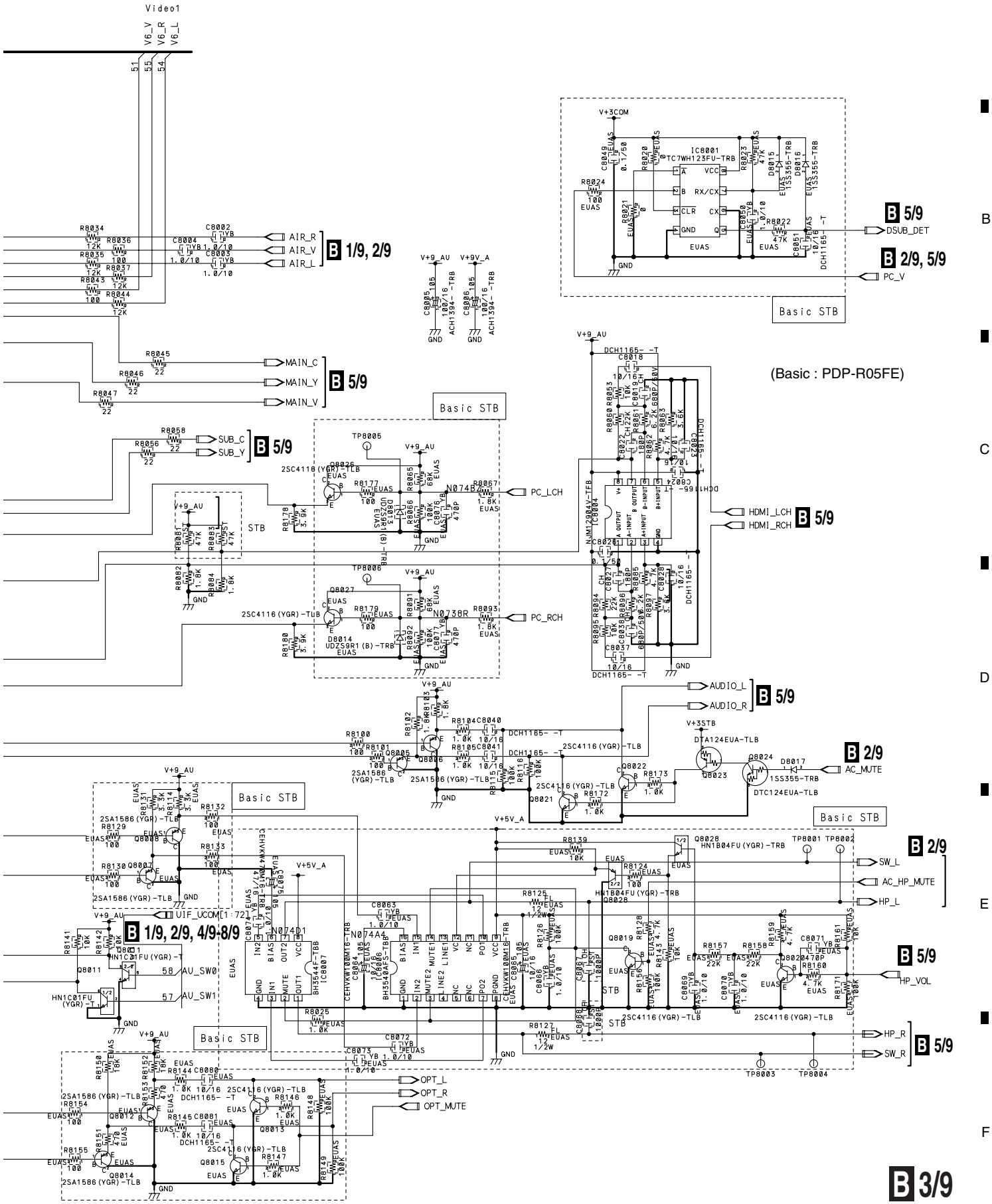
B 2/9

3.17 AV BOARD ASSY (3/9)

B 3/9 AV BOARD ASSY (PDP-R05E : AWZ6946) (PDP-R05XE : AWZ6986) (PDP-R05FE : AWZ6947)

● **SW BLOCK**

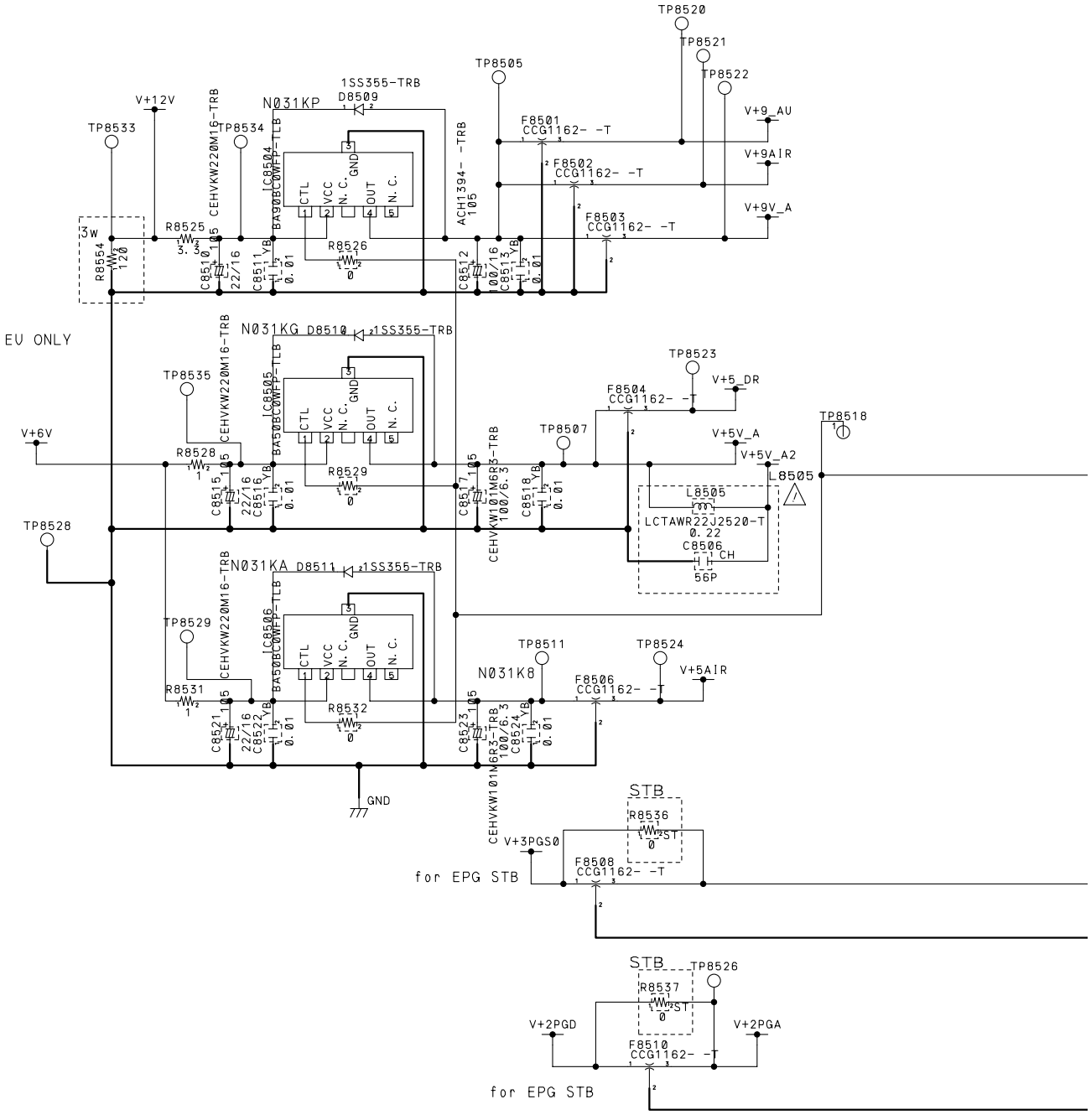


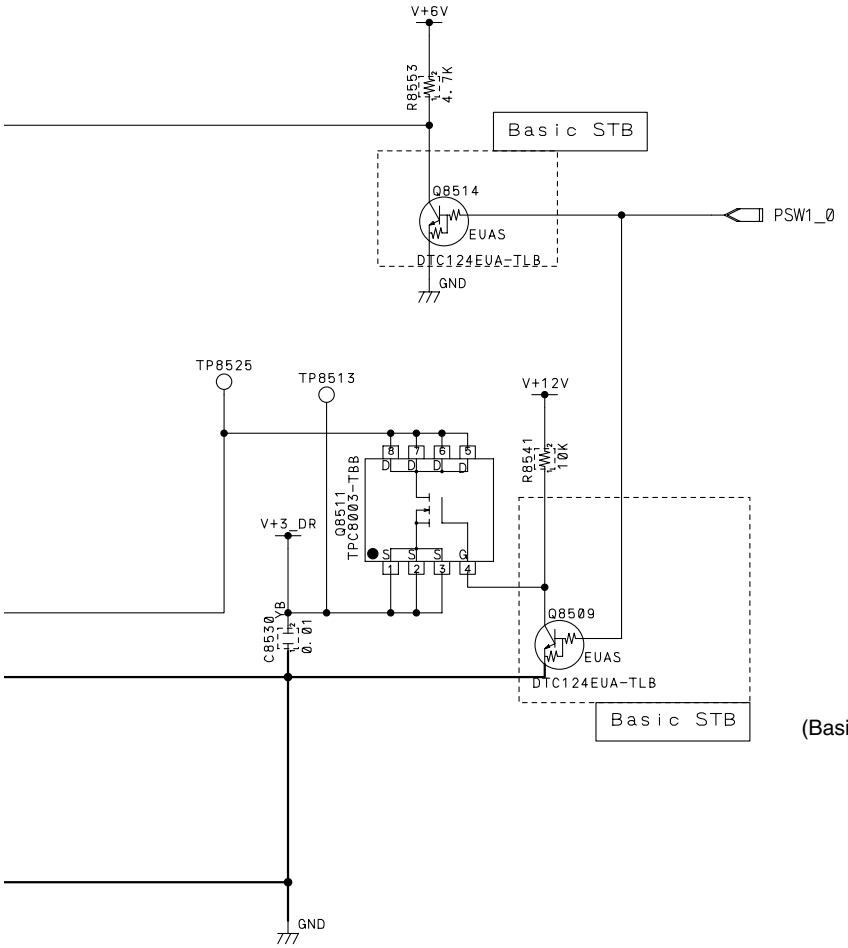

Video1
V6_V
V6_R
V6_L
AIR_R
AIR_V
AIR_L
B 1/9, 2/9
MAIN_C
MAIN_Y
MAIN_V
B 5/9
SUB_C
SUB_V
B 5/9
V+3COM
IC8001
TC7WH123FU-TRB
DSUB_DET
B 5/9
PC_V
B 2/9, 5/9
Basic STB
(Basic : PDP-R05FE)
PC_LCH
PC_RCH
HDMI_LCH
HDMI_RCH
B 5/9
AUDIO_L
AUDIO_R
B 5/9
AC_MUTE
B 2/9
SW_L
AC_HP_MUTE
HP_L
B 2/9
HP_VOL
B 5/9
HP_R
SW_R
B 5/9
UIF_UCOM[1:72]
B 1/9, 2/9, 4/9-8/9
AU_SW0
AU_SW1
OPT_L
OPT_R
OPT_MUTE
B 3/9

3.18 AV BOARD ASSY (4/9)

B 4/9 AV BOARD ASSY (PDP-R05E : AWZ6946) (PDP-R05XE : AWZ6986) (PDP-R05FE : AWZ6947)

● **AV_REG BLOCK**



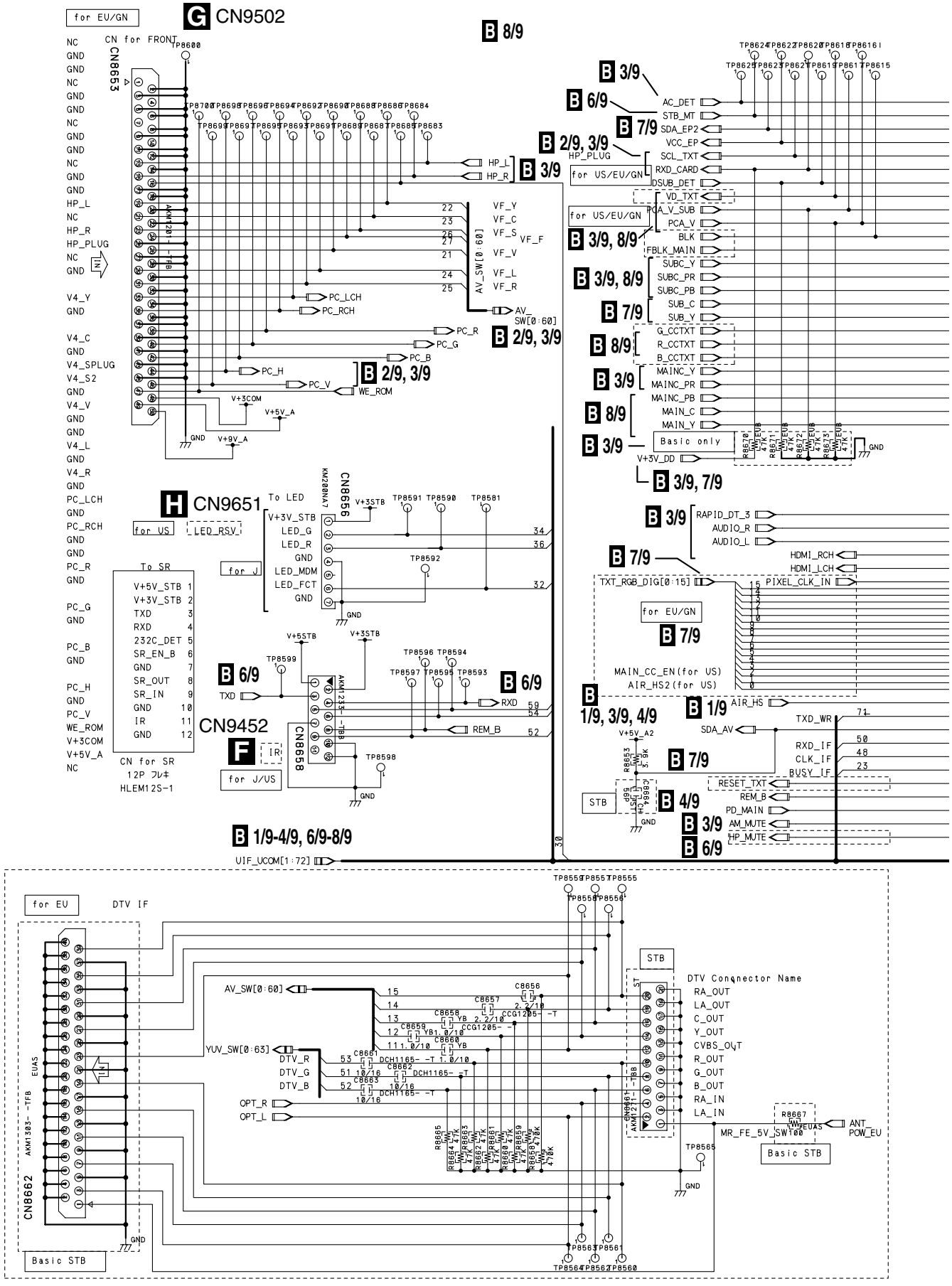


(Basic : PDP-R05FE)

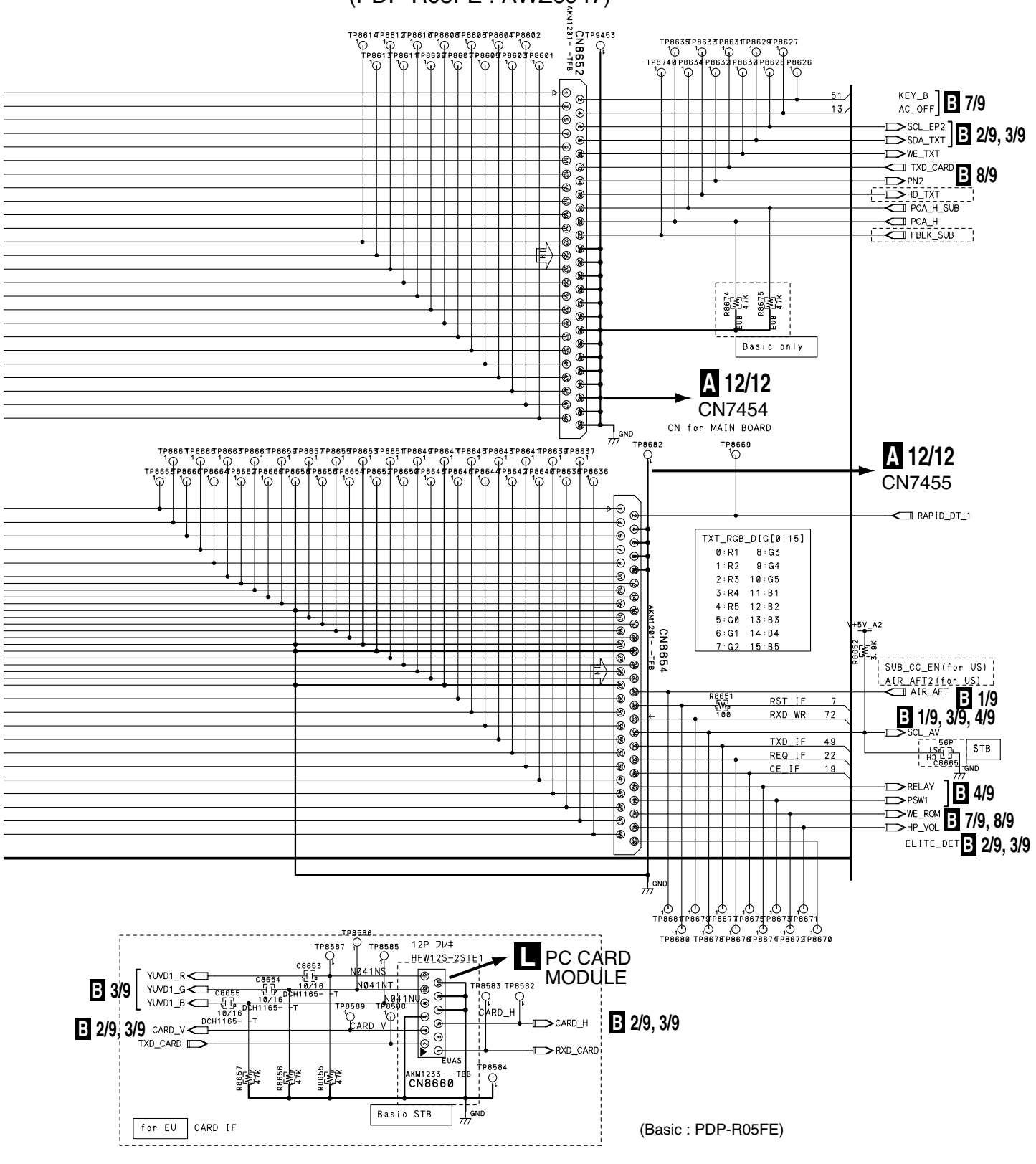
With the ⚠ mark, be sure to use parts of identical designation.

3.19 AV BOARD ASSY (5/9)

● **IF BLOCK**



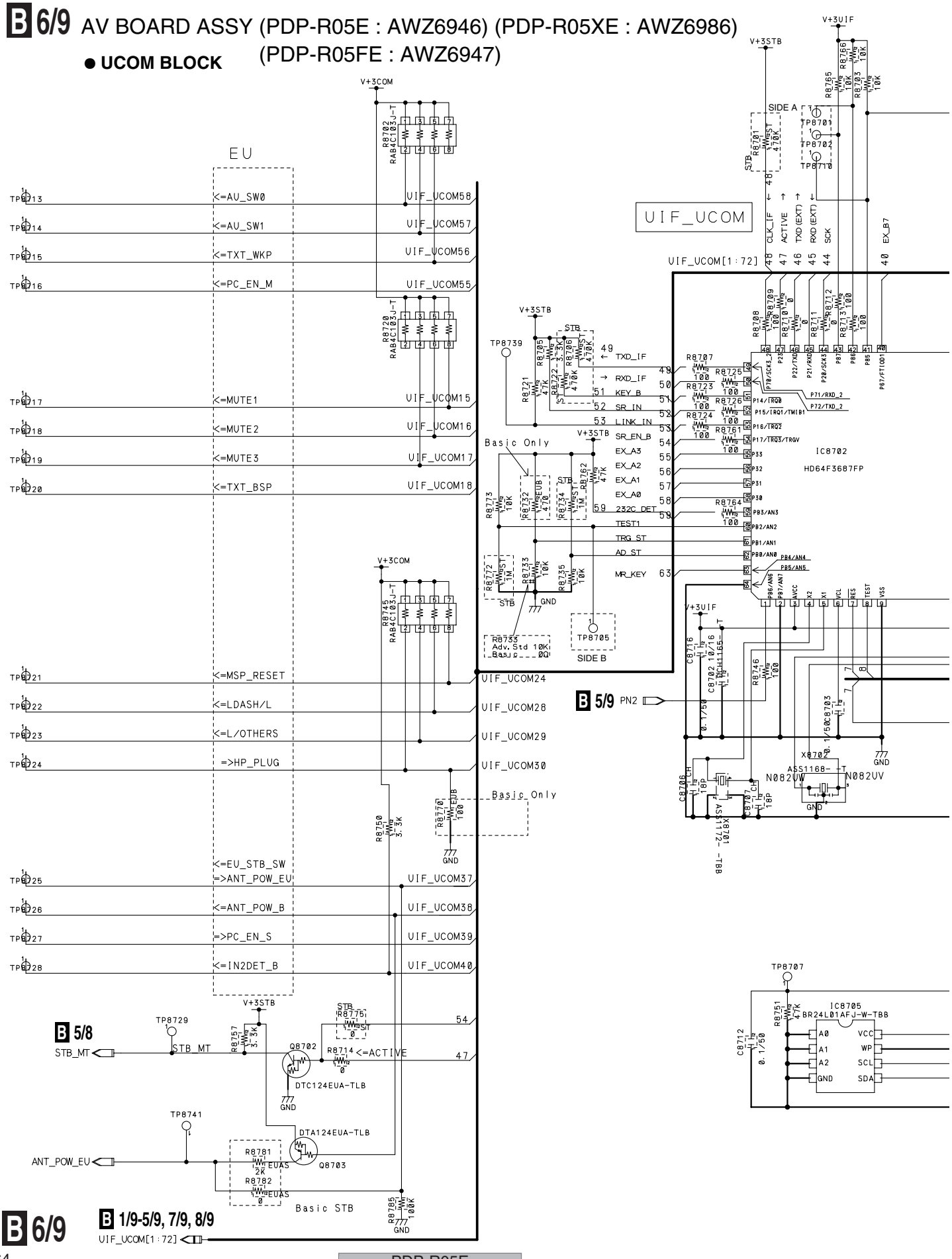
B 5/9 AV BOARD ASSY (PDP-R05E : AWZ6946) (PDP-R05XE : AWZ6986) (PDP-R05FE : AWZ6947)

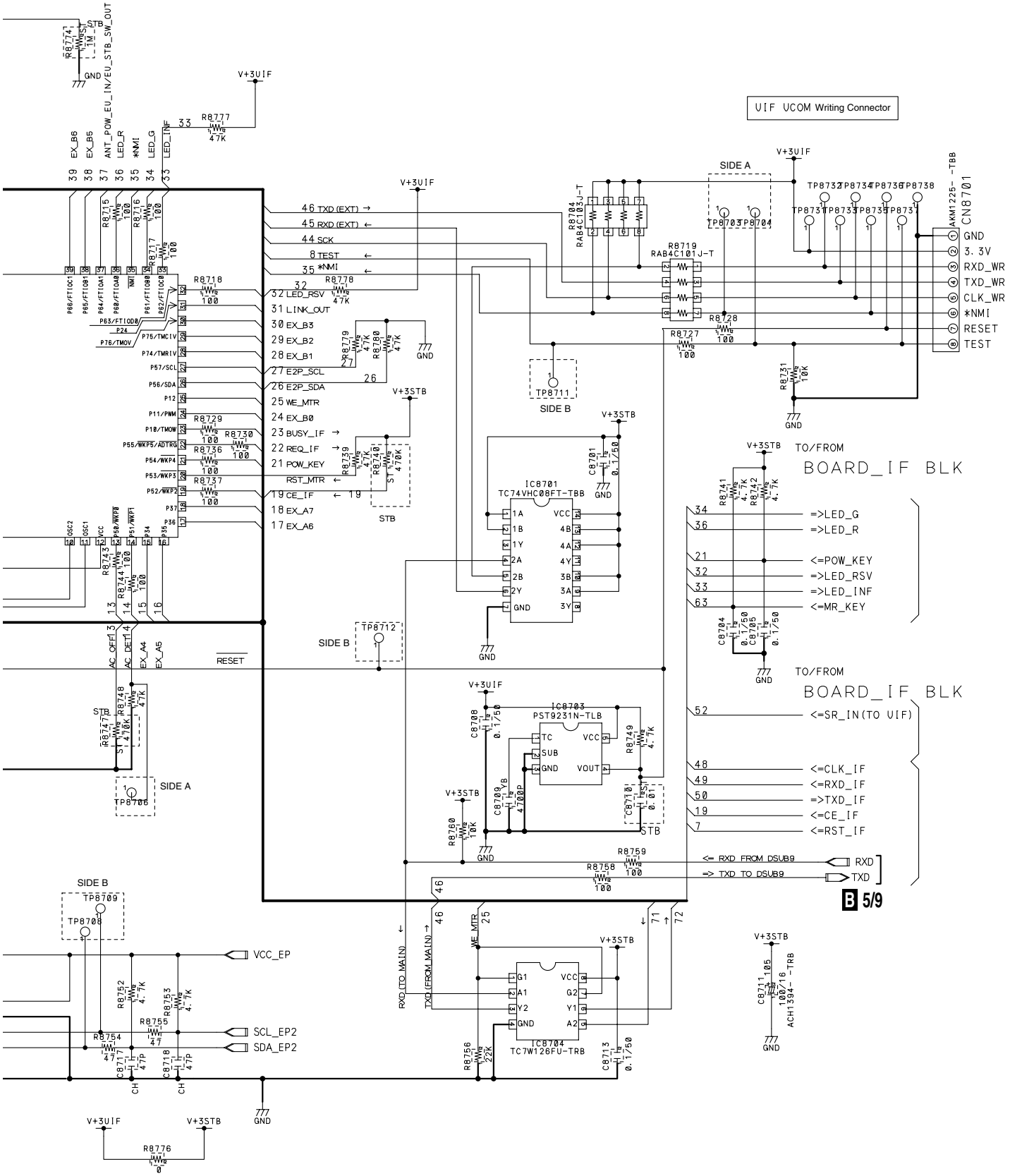


3.20 AV BOARD ASSY (6/9)

B 6/9 AV BOARD ASSY (PDP-R05E : AWZ6946) (PDP-R05XE : AWZ6986) (PDP-R05FE : AWZ6947)

● **UCOM BLOCK**

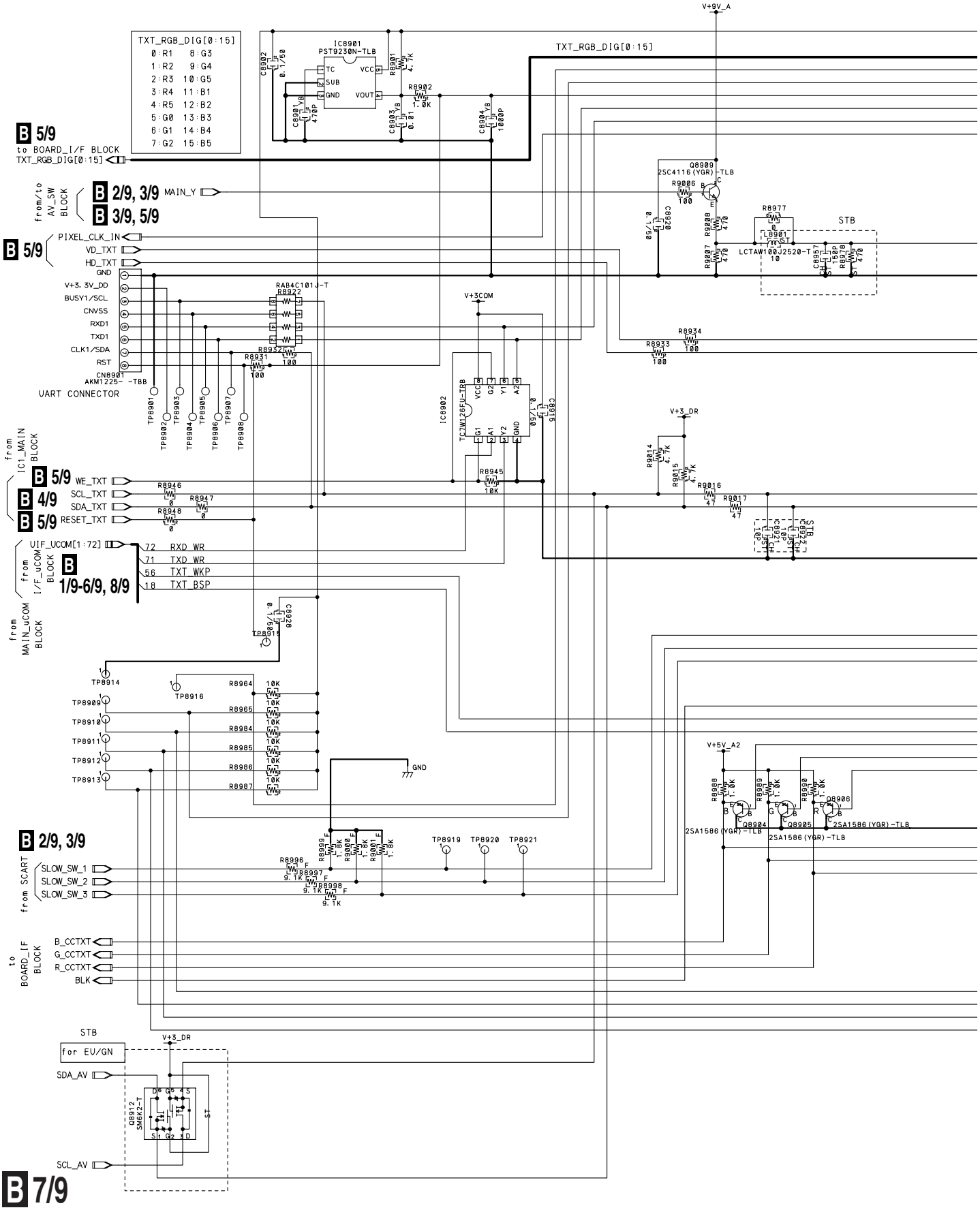


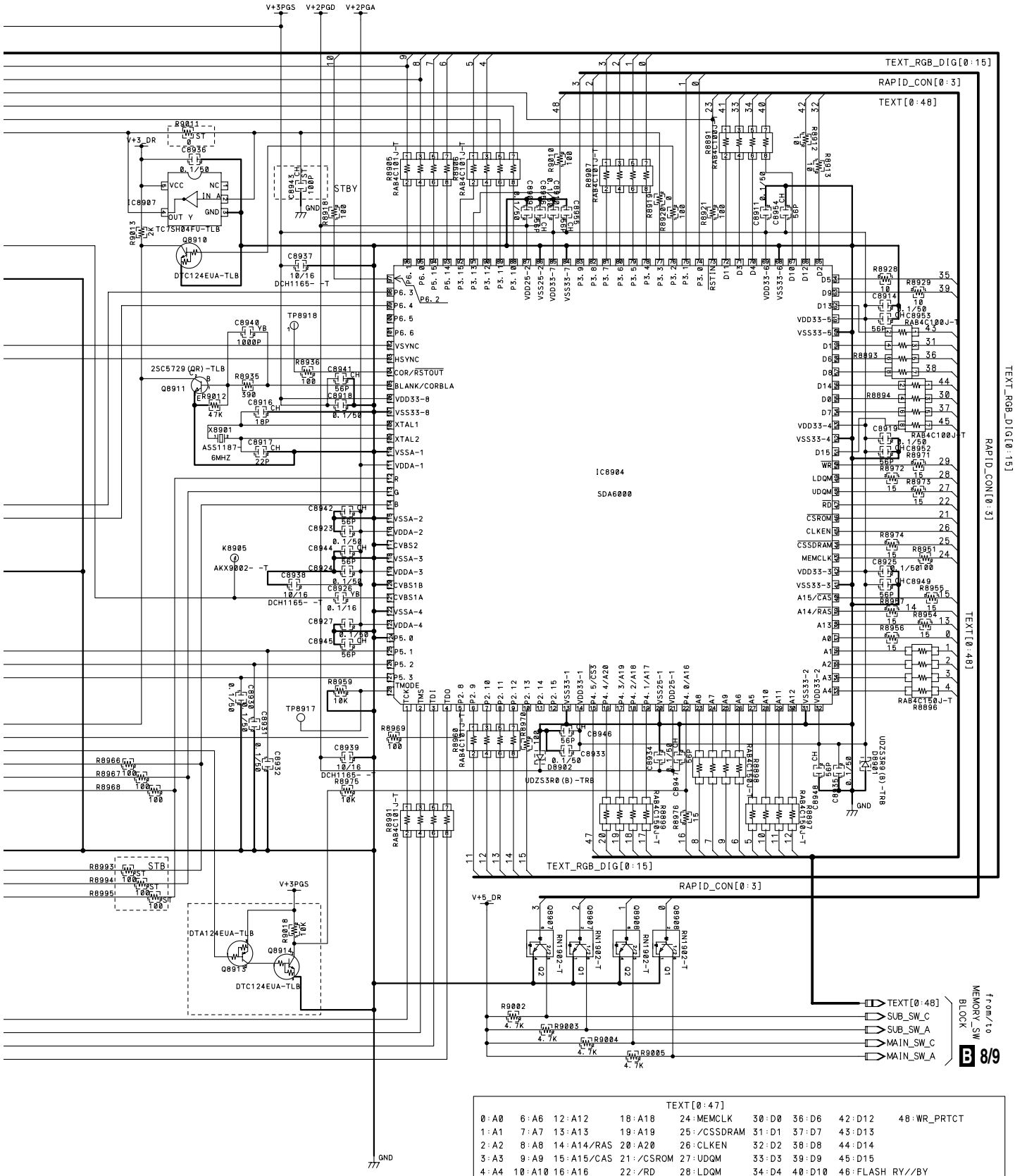

UIF UCOM Writing Connector
CN8701
AKM1225- -TBB
GND
3. 3V
RXD_WR
TXD_WR
CLK_WR
*NMI
RESET
TEST
SIDE A
SIDE B
STB
V+3UIF
V+3STB
TO/FROM
BOARD_IF BLK
=>LED_G
=>LED_R
<=POW_KEY
=>LED_RSV
=>LED_INF
<=MR_KEY
<=SR_IN(TO UIF)
<=CLK_IF
<=RXD_IF
=>TXD_IF
<=CE_IF
<=RST_IF
<= RXD FROM DSUB9
=> TXD TO DSUB9
RXD
TXD
B 5/9
IC8701
TC74VHC08FT-TBB
IC8703
PST9231N-TLB
IC8704
TC7W126FU-TRB
TXD (EXT) →
RXD (EXT) ←
SCK
TEST ←
*NMI ←
LED_RSV
LINK_OUT
EX_B3
EX_B2
EX_B1
E2P_SCL
E2P_SDA
WE_MTR
EX_B0
BUSY_IF →
REQ_IF →
POW_KEY
RST_MTR ←
CE_IF ←
EX_A7
EX_A6
RESET
VCC_EP
SCL_EP2
SDA_EP2
RXD (TO MAIN) ←
TXD (FROM MAIN) →
B 6/9

3.21 AV BOARD ASSY (7/9)

B 7/9 AV BOARD ASSY (PDP-R05E : AWZ6946) (PDP-R05XE : AWZ6986) (PDP-R05FE : AWZ6947)

● **TELE TEXT BLOCK**





TEXT[0:47]

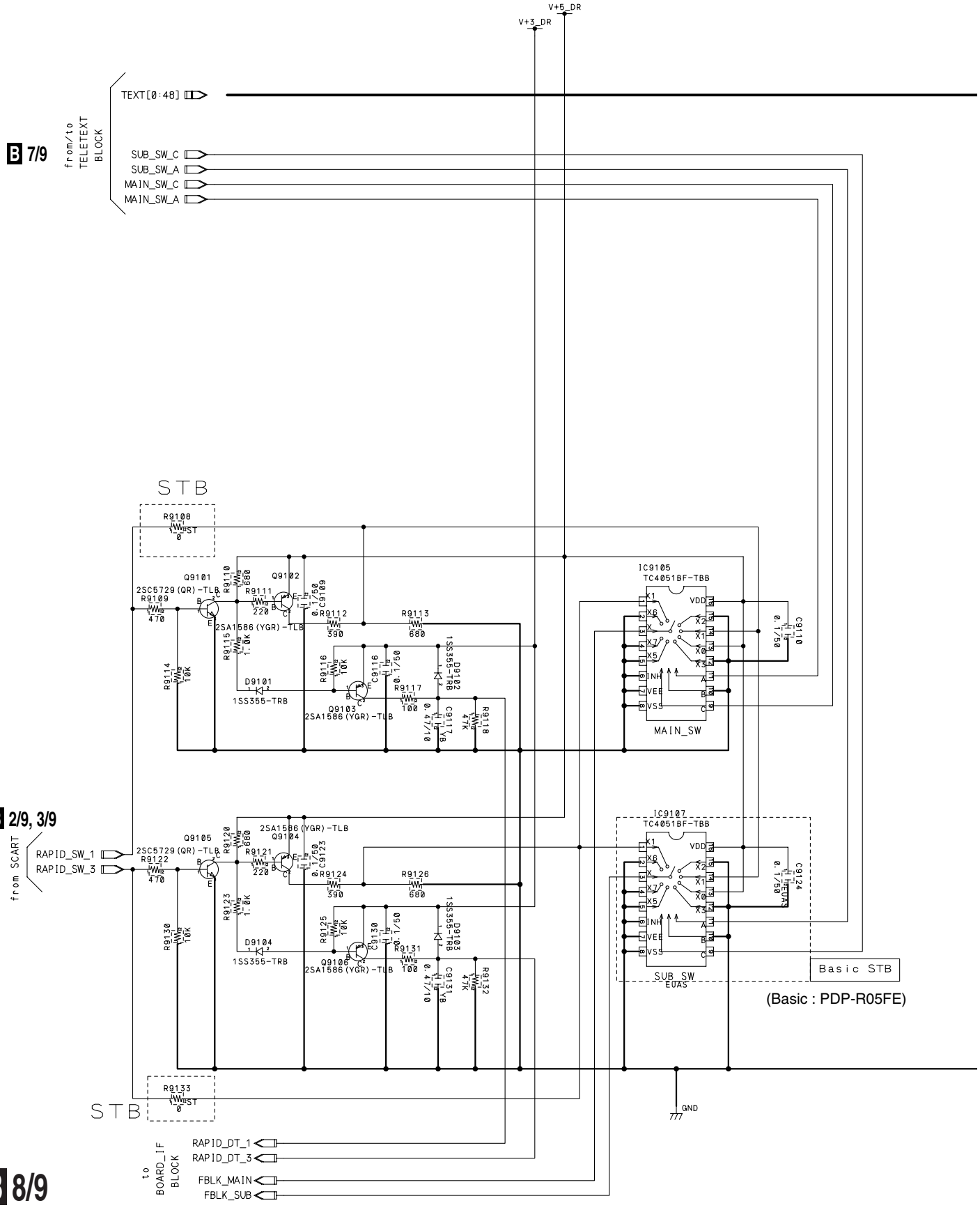
0:A0	6:A6	12:A12	18:A18	24:MEMCLK	30:D0	36:D6	42:D12	48:WR_PRTCT
1:A1	7:A7	13:A13	19:A19	25:/CSSDRAM	31:D1	37:D7	43:D13	
2:A2	8:A8	14:A14/RAS	20:A20	26:CLKEN	32:D2	38:D8	44:D14	
3:A3	9:A9	15:A15/CAS	21:/CSROM	27:UDQM	33:D3	39:D9	45:D15	
4:A4	10:A10	16:A16	22:/RD	28:LDQM	34:D4	40:D10	46:FLASH RY//BY	
5:A5	11:A11	17:A17	23:/RSTIN	29:/WR	35:D5	41:D11	47:CS3	

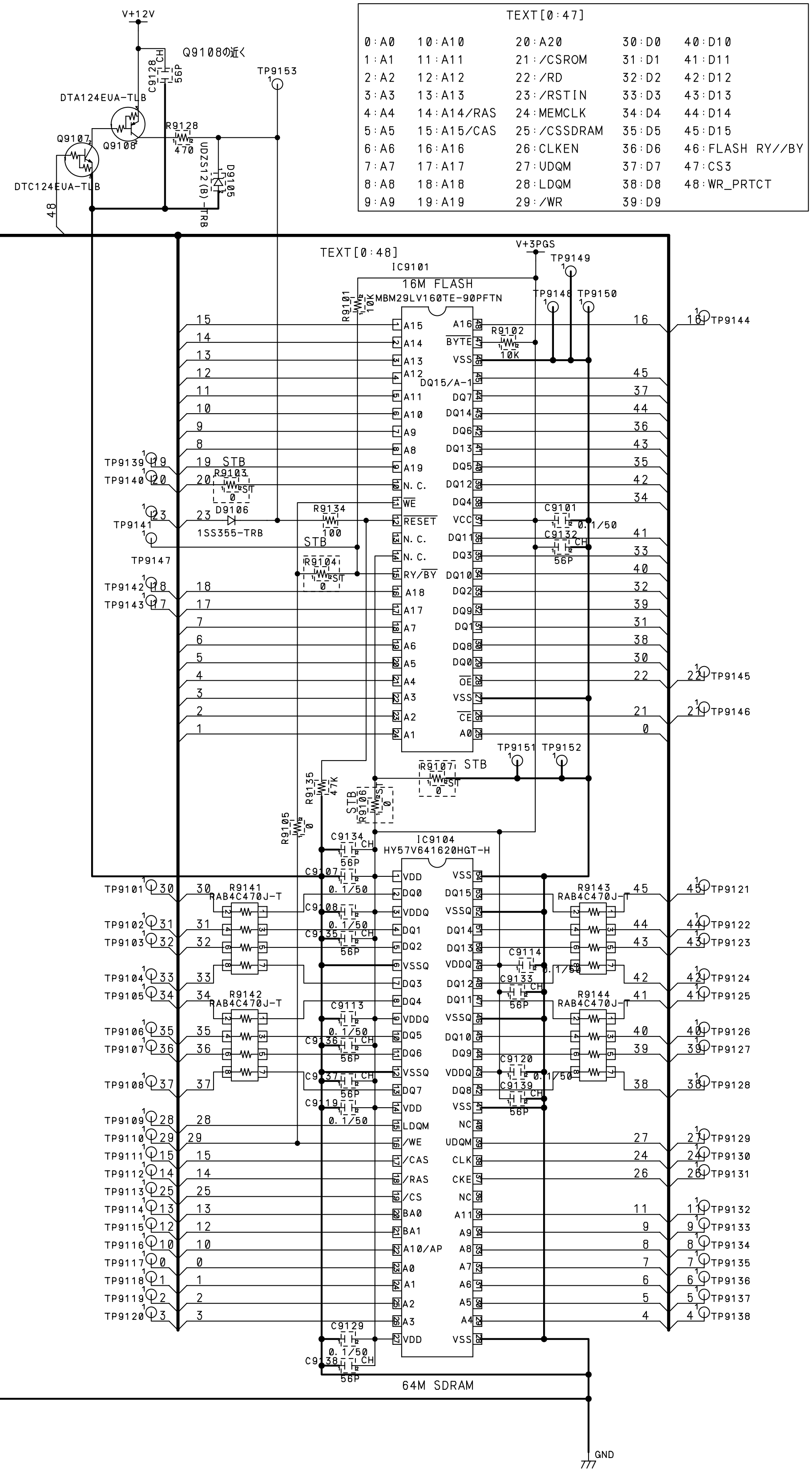
B 7/9

3.22 AV BOARD ASSY (8/9)

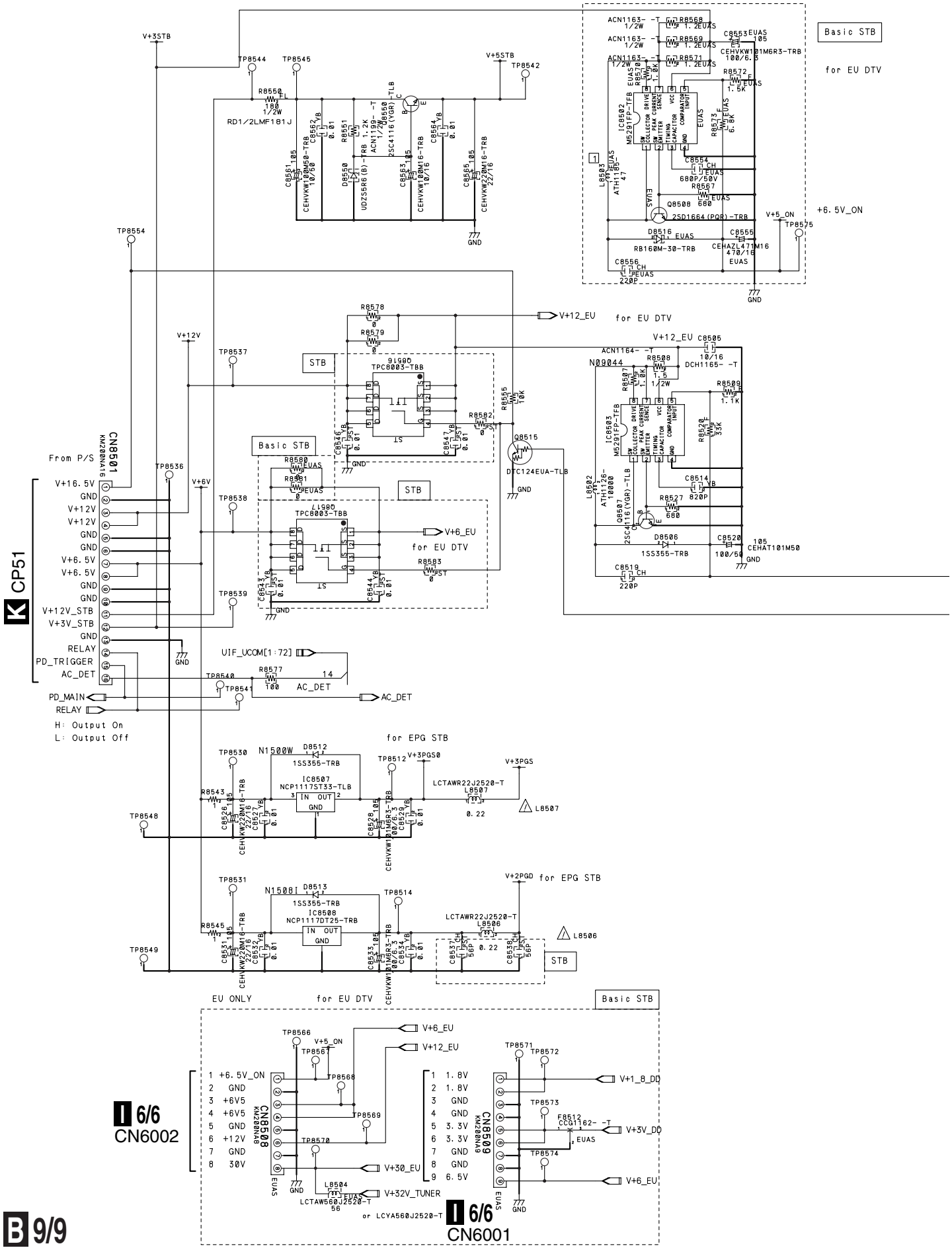
B 8/9 AV BOARD ASSY (PDP-R05E : AWZ6946) (PDP-R05XE : AWZ6986) (PDP-R05FE : AWZ6947)

● **MEMORY_SW BLOCK**



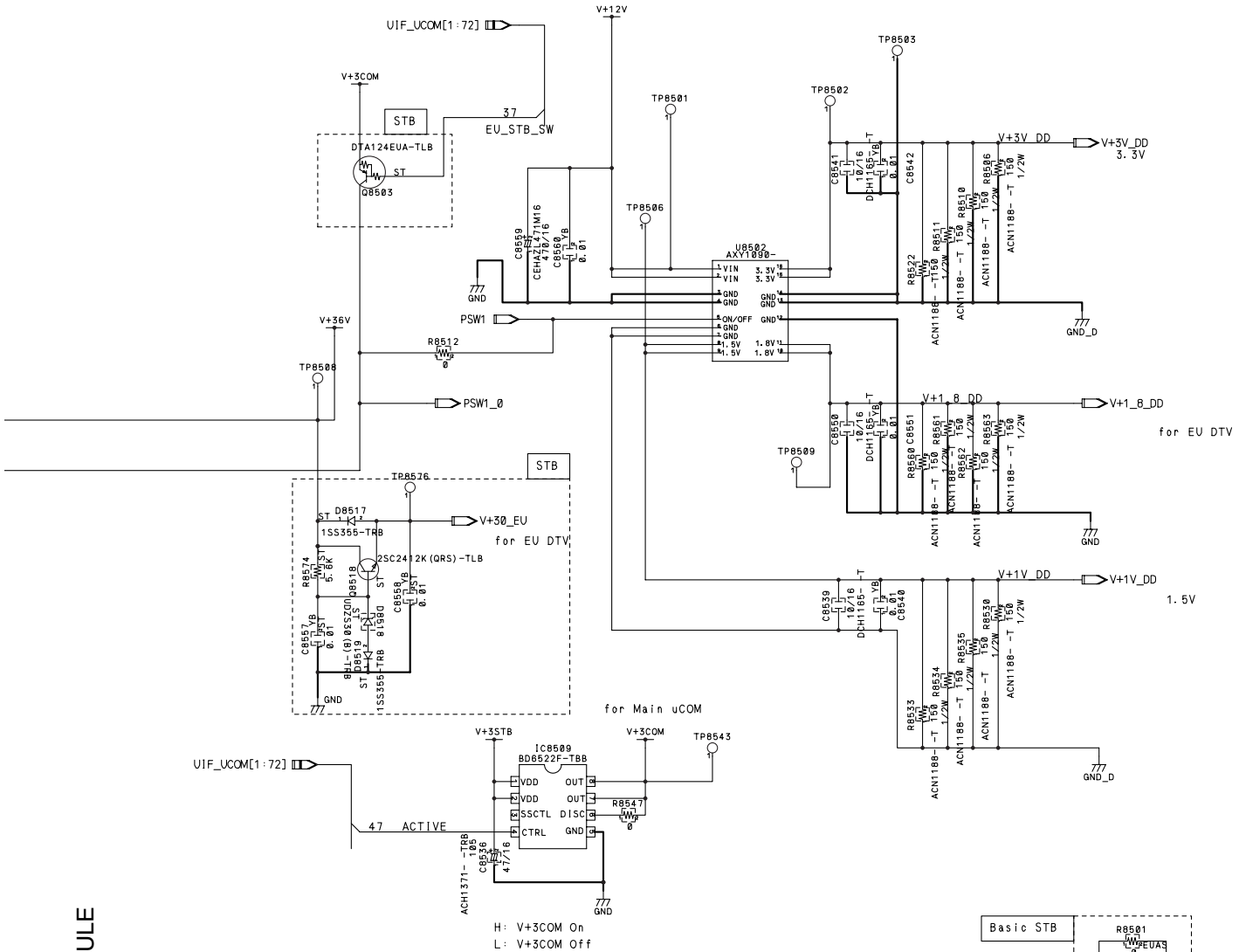

V+12V
Q9108の近く
C9128 CH 56P
TP9153
DTA124EUA-TLB
Q9108
R9128 470
Q9107
DTC124EUA-TLB
UDZS12(B)-TRB
D9105
TEXT[0:47]
0:A0 10:A10 20:A20 30:D0 40:D10
1:A1 11:A11 21:/CSROM 31:D1 41:D11
2:A2 12:A12 22:/RD 32:D2 42:D12
3:A3 13:A13 23:/RSTIN 33:D3 43:D13
4:A4 14:A14/RAS 24:MEMCLK 34:D4 44:D14
5:A5 15:A15/CAS 25:/CSSDRAM 35:D5 45:D15
6:A6 16:A16 26:CLKEN 36:D6 46:FLASH RY//BY
7:A7 17:A17 27:UDQM 37:D7 47:CS3
8:A8 18:A18 28:LDQM 38:D8 48:WR_PRTCT
9:A9 19:A19 29:/WR 39:D9
TEXT[0:48]
V+3PGS
IC9101
16M FLASH
MBM29LV160TE-90PFTN
R9101 10K
R9102 10K
TP9149
TP9148
TP9150
TP9144
R9103 0
STB
D9106
1SS355-TRB
R9134 100
R9104 0
C9101 0.1/50
C9132 CH 56P
TP9139
TP9140
TP9141
TP9147
TP9142
TP9143
TP9145
TP9146
TP9151
TP9152
R9107 0
R9135 47K
R9106 0
R9105 0
C9134 CH 56P
IC9104
HY57V641620HGT-H
C9107 0.1/50
C9108 0.1/50
C9135 CH 56P
C9113 0.1/50
C9136 CH 56P
C9137 CH 56P
C9119 0.1/50
C9114 0.1/50
C9133 CH 56P
C9120 0.1/50
C9139 CH 56P
C9129 0.1/50
C9138 CH 56P
R9141 RAB4C470J-T
R9142 RAB4C470J-T
R9143 RAB4C470J-T
R9144 RAB4C470J-T
64M SDRAM
GND
TP9101
TP9102
TP9103
TP9104
TP9105
TP9106
TP9107
TP9108
TP9109
TP9110
TP9111
TP9112
TP9113
TP9114
TP9115
TP9116
TP9117
TP9118
TP9119
TP9120
TP9121
TP9122
TP9123
TP9124
TP9125
TP9126
TP9127
TP9128
TP9129
TP9130
TP9131
TP9132
TP9133
TP9134
TP9135
TP9136
TP9137
TP9138

3.23 AV BOARD ASSY (9/9)

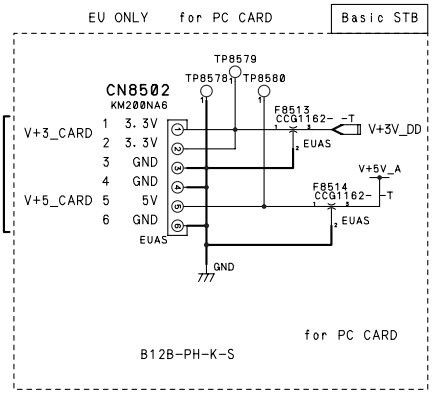


B 9/9 AV BOARD ASSY (PDP-R05E : AWZ6946) (PDP-R05XE : AWZ6986) (PDP-R05FE : AWZ6947)

● **REG BLOCK 2**

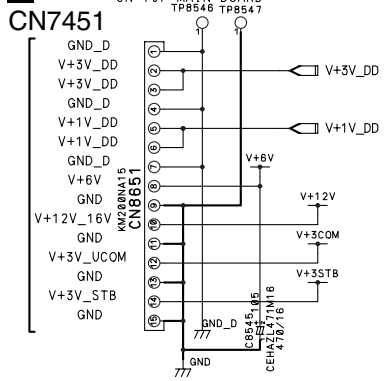


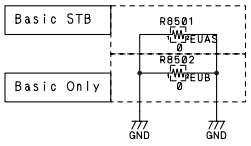
L PC CARD MODULE



A 12/12 CN for MAIN BOARD

CN7451



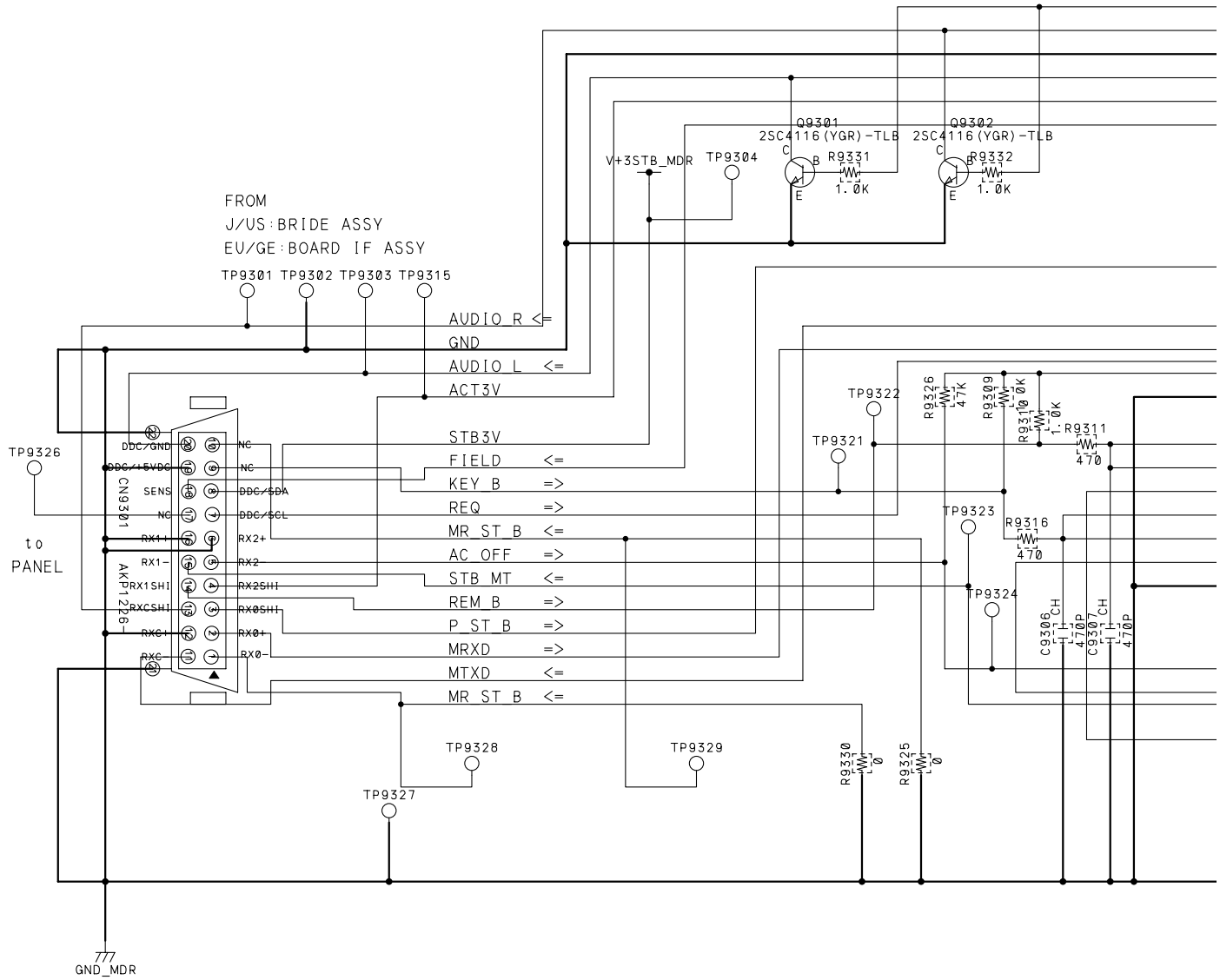


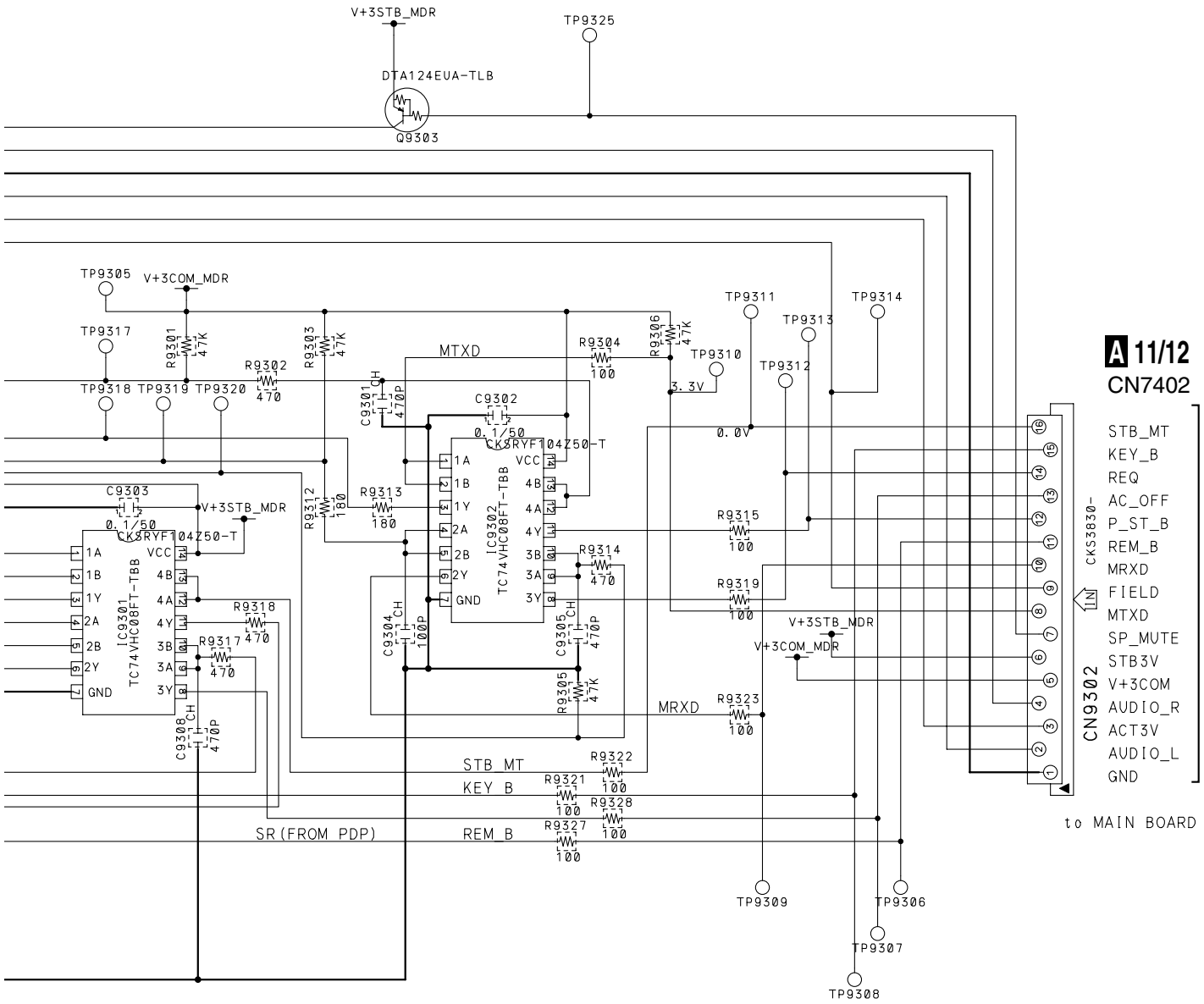
(Basic : PDP-R05FE)

With the ⚠ mark, be sure to use parts of identical designation.

3.24 MDR ASSY

E MDR ASSY (AWZ6948)

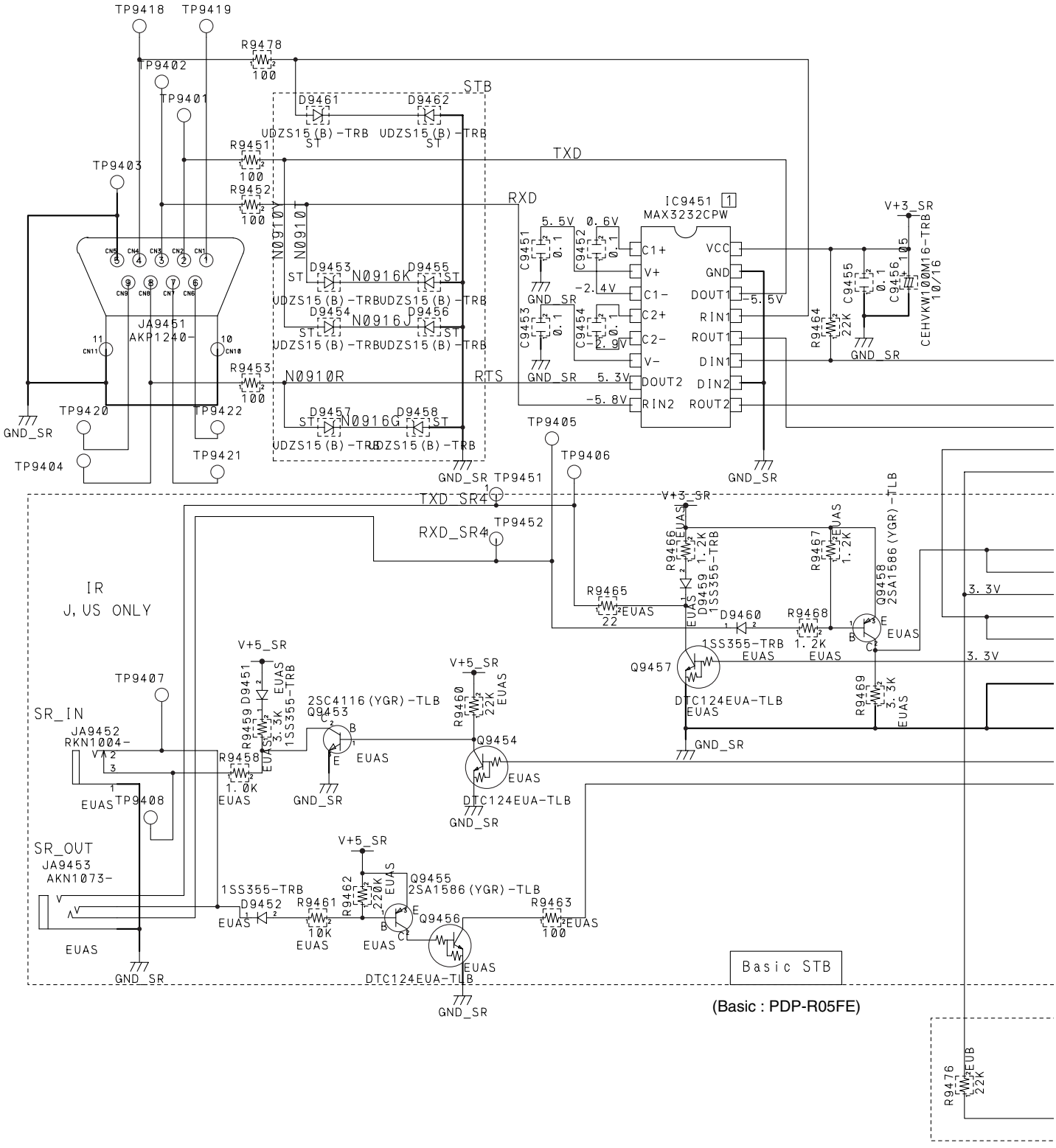


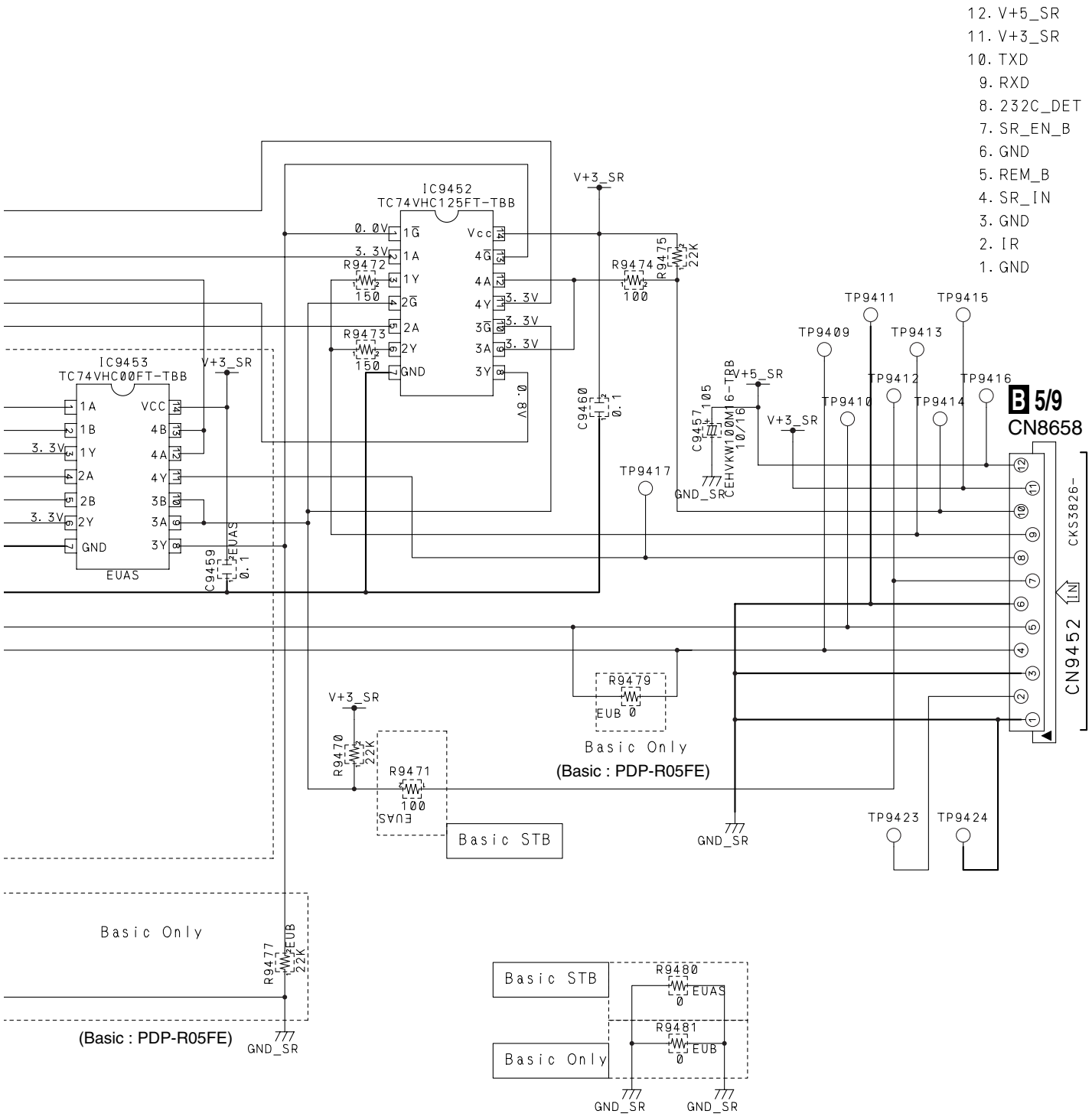


ITEM	USED	VACANT
R	9301-9332	9320
C	9301-9308	
Q	9301-9303	
D		
IC	9301, 9302	
CN	9301, 9302, 9341	
S	9341	

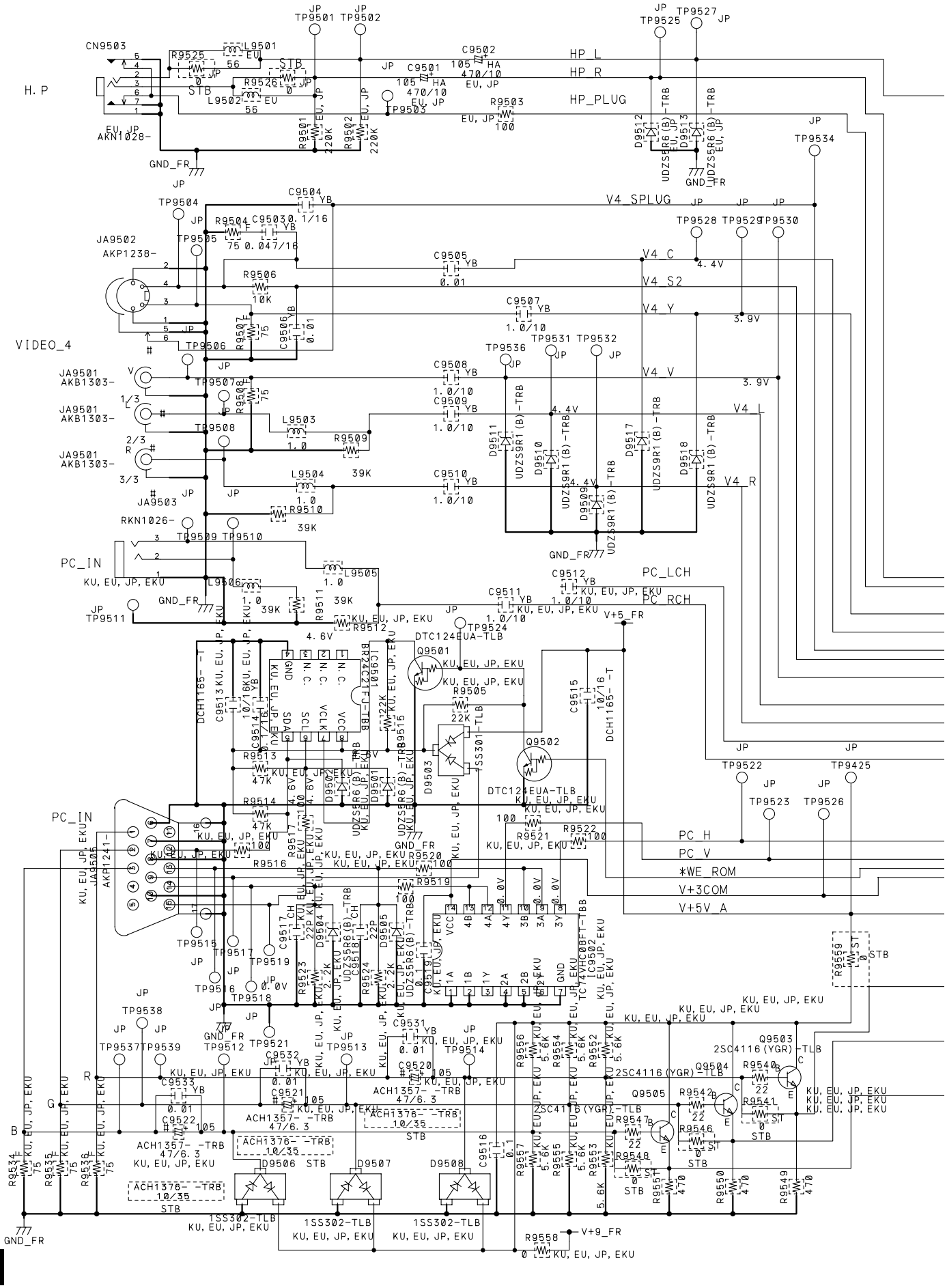
3.25 SR ASSY

F SR ASSY
(PDP-R05E, PDP-R05XE : AWZ6949)(PDP-R05FE : AWZ6950)



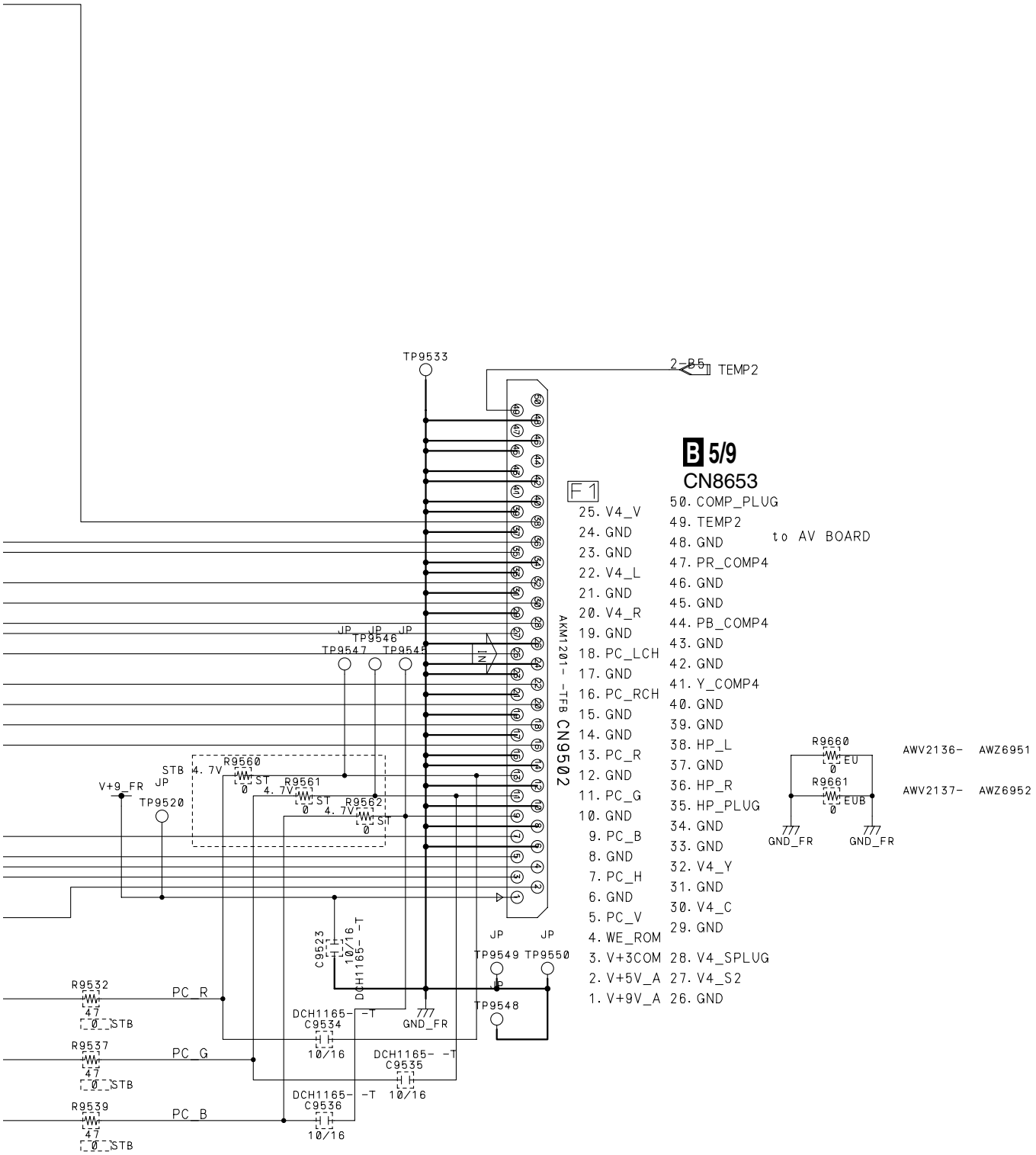

12. V+5_SR
11. V+3_SR
10. TXD
9. RXD
8. 232C_DET
7. SR_EN_B
6. GND
5. REM_B
4. SR_IN
3. GND
2. IR
1. GND
IC9452
TC74VHC125FT-TBB
IC9453
TC74VHC00FT-TBB
V+3_SR
V+5_SR
R9472
150
R9473
150
R9474
100
R9475
22K
R9470
22K
R9471
100
R9477
22K
R9479
0
R9480
0
R9481
0
C9459
0.1
C9460
0.1
C9457
105
EHVKW100M16-TBB
10/16
TP9409
TP9410
TP9411
TP9412
TP9413
TP9414
TP9415
TP9416
TP9417
TP9423
TP9424
B 5/9
CN8658
CN9452
CKS3826-
Basic Only
(Basic : PDP-R05FE)
Basic STB
GND_SR
EUAS
EUB

3.26 FRONT ASSY



G FRONT ASSY

(PDP-R05E, PDP-R05XE : AWZ6951)
(PDP-R05FE : AWZ6952)

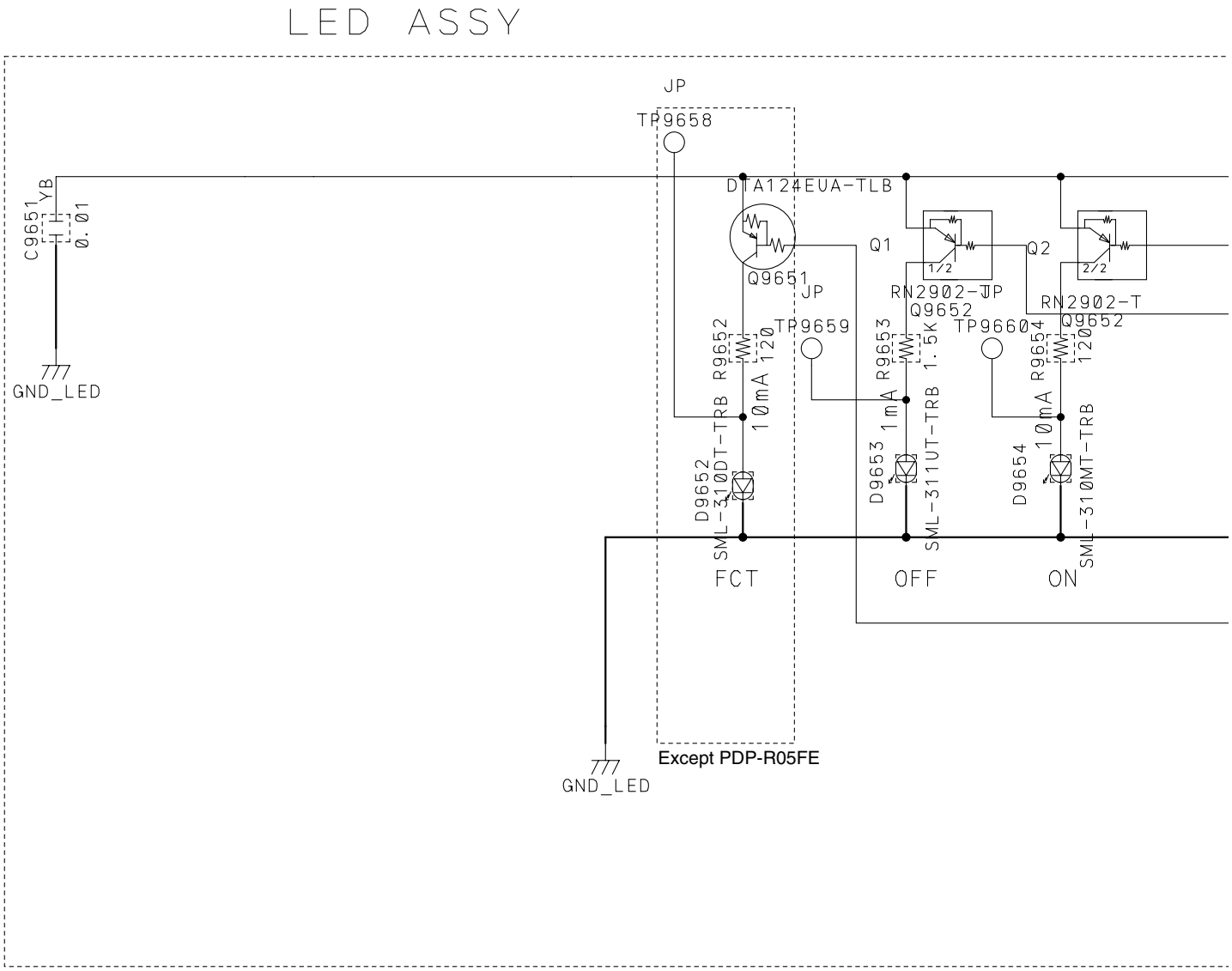


ITEM	USED	VACANT
R	9501-9583 9651, 9658-9661	9531, 9541, 9548, 9559-9567, 9538
C	9501-9540	
Q	9501-9508	
D	9501-9518	
IC	9501-9502	
CN	9502-9503	
JA	9501-9505	

3.27 LED ASSY

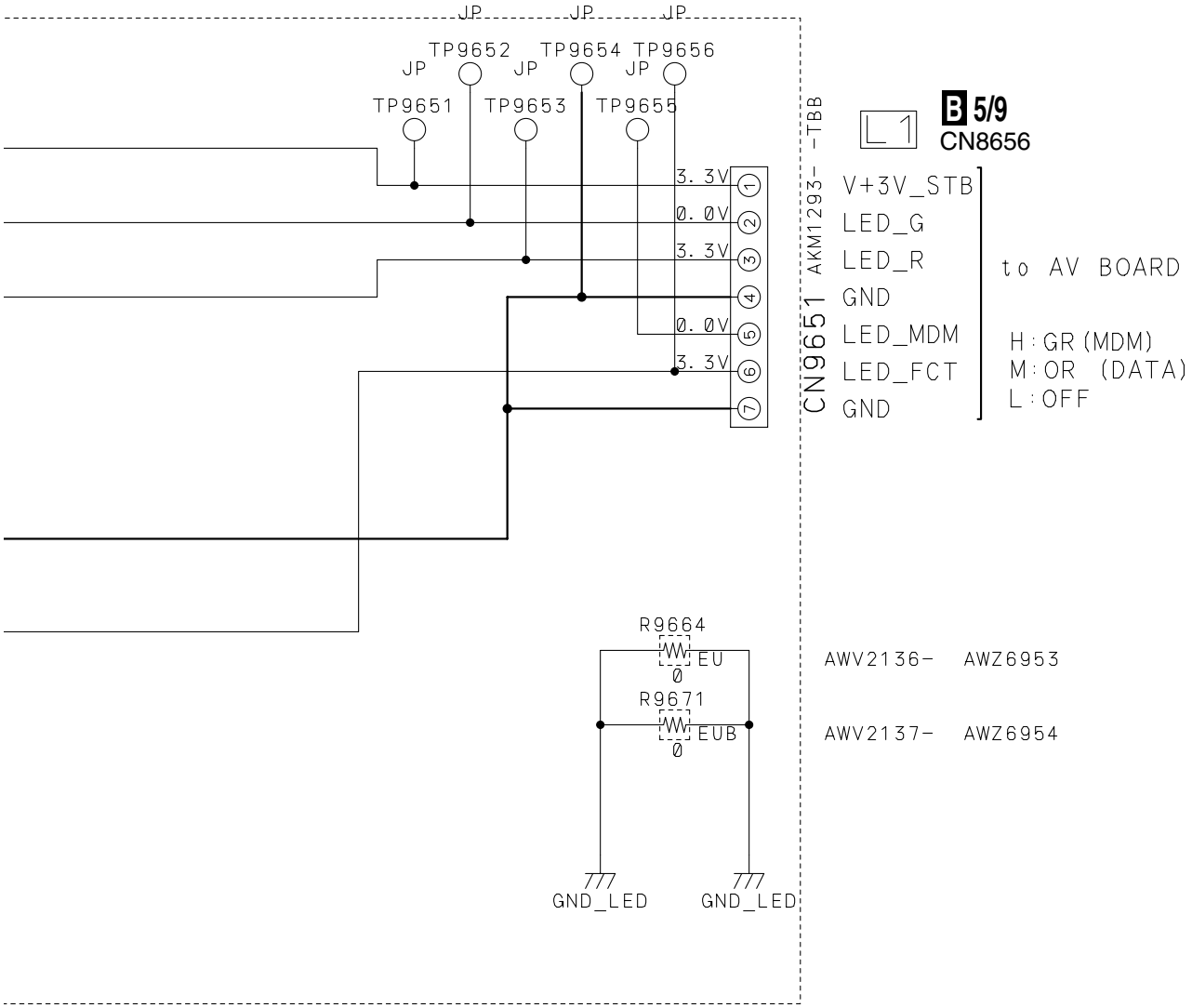
H LED ASSY

(PDP-R05E, PDP-R05XE : AWZ6953)(PDP-R05FE : AWZ6954)



ITEM	USED	VACANT
R	9652-9671	9658-9661
C	9651, 9652	
Q	9651-9654	
D	9652-9655	
IC		
CN	9651	

H

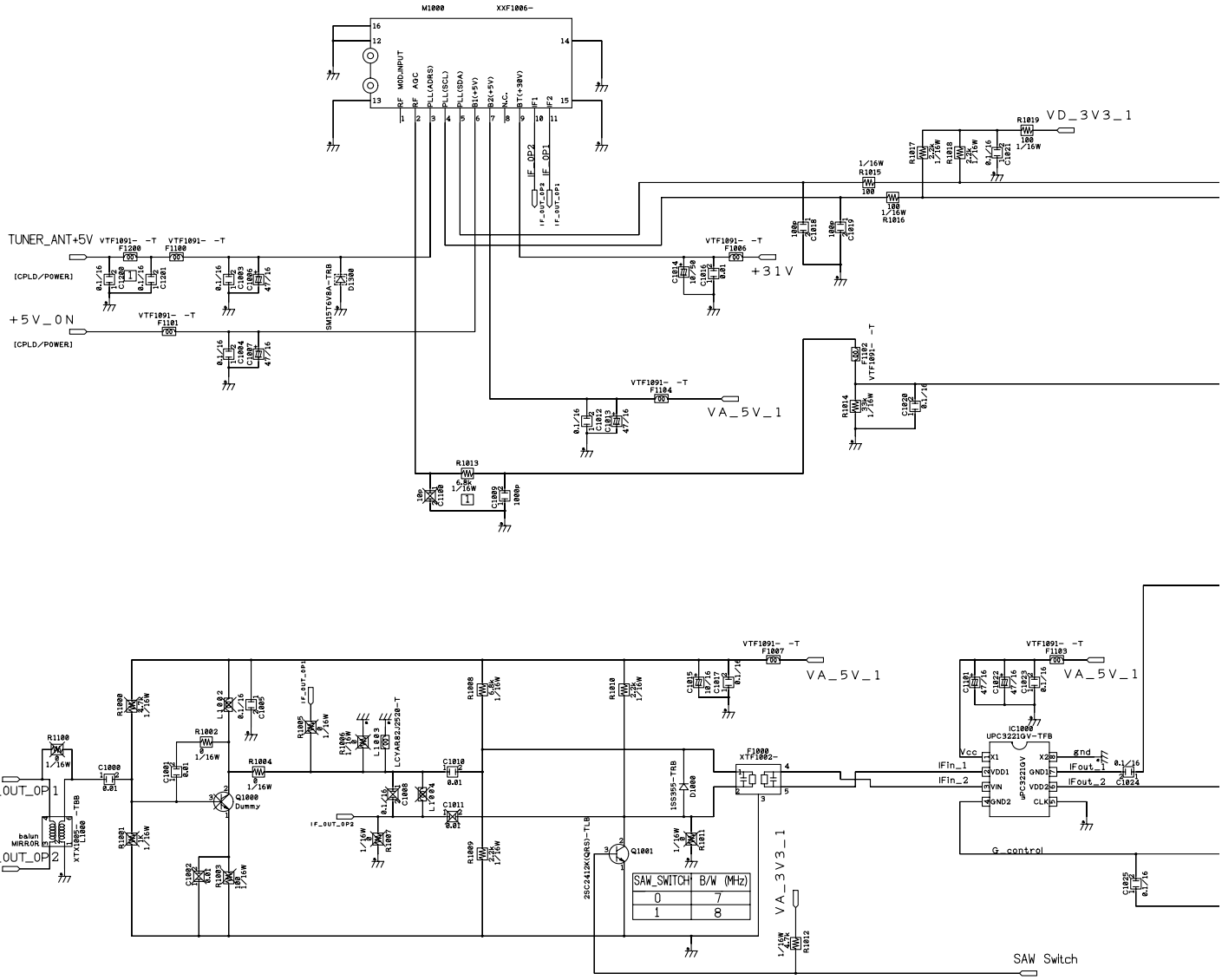


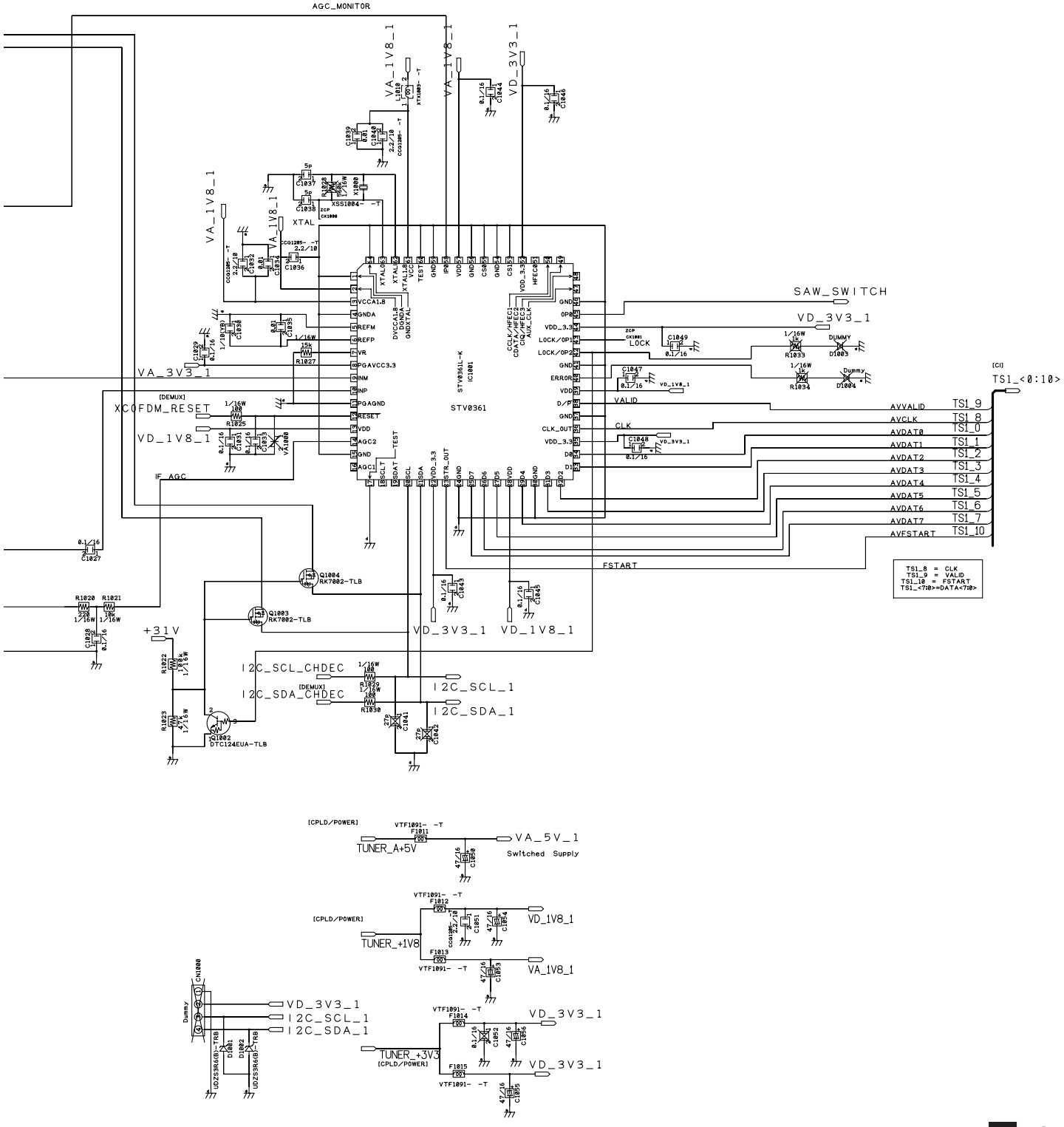
AWV2136- AWZ6953

AWV2137- AWZ6954

3.28 TUNER BOARD ASSY (1/6)

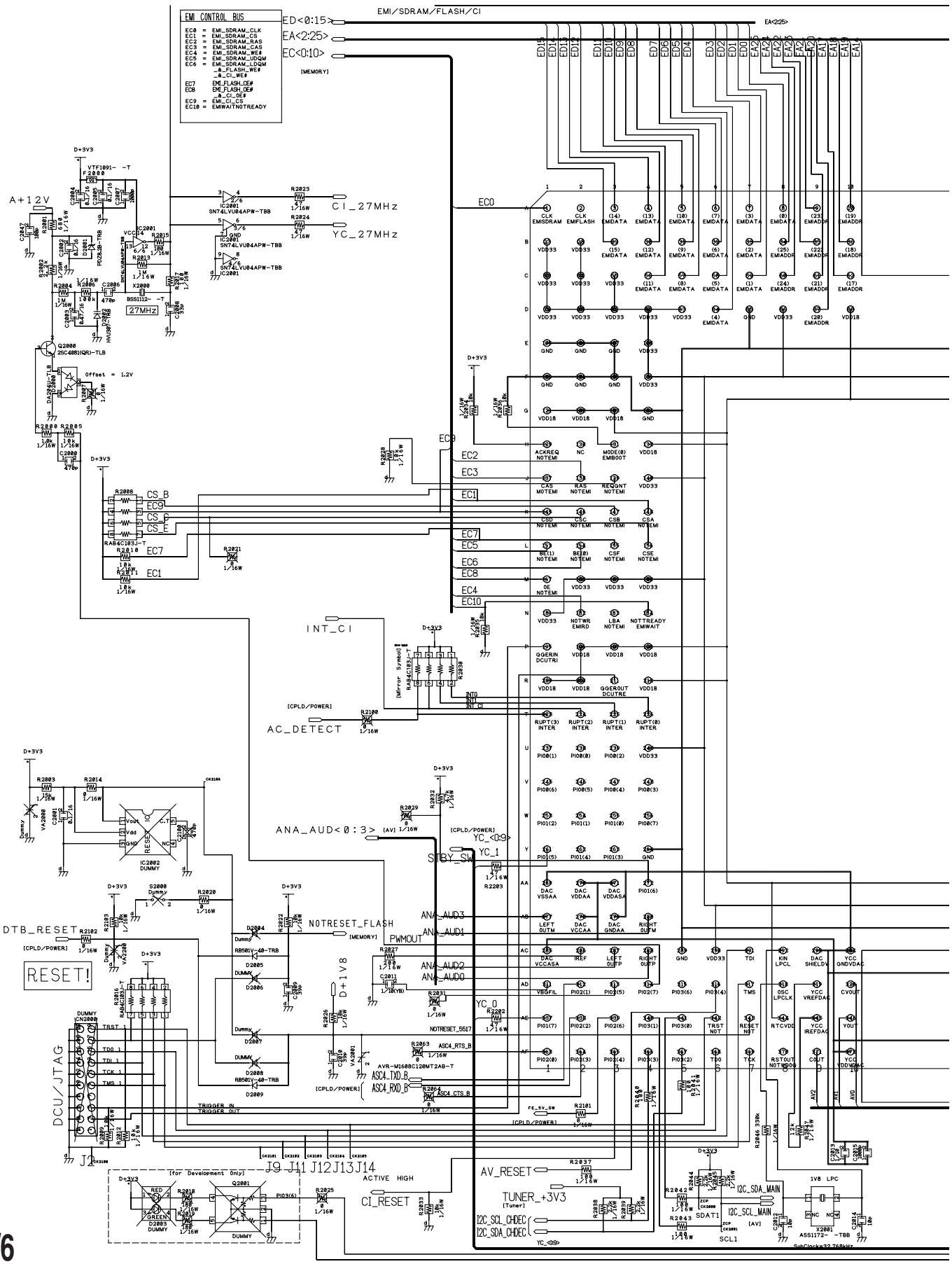
1/6 TUNER BOARD ASSY (AWE1301)



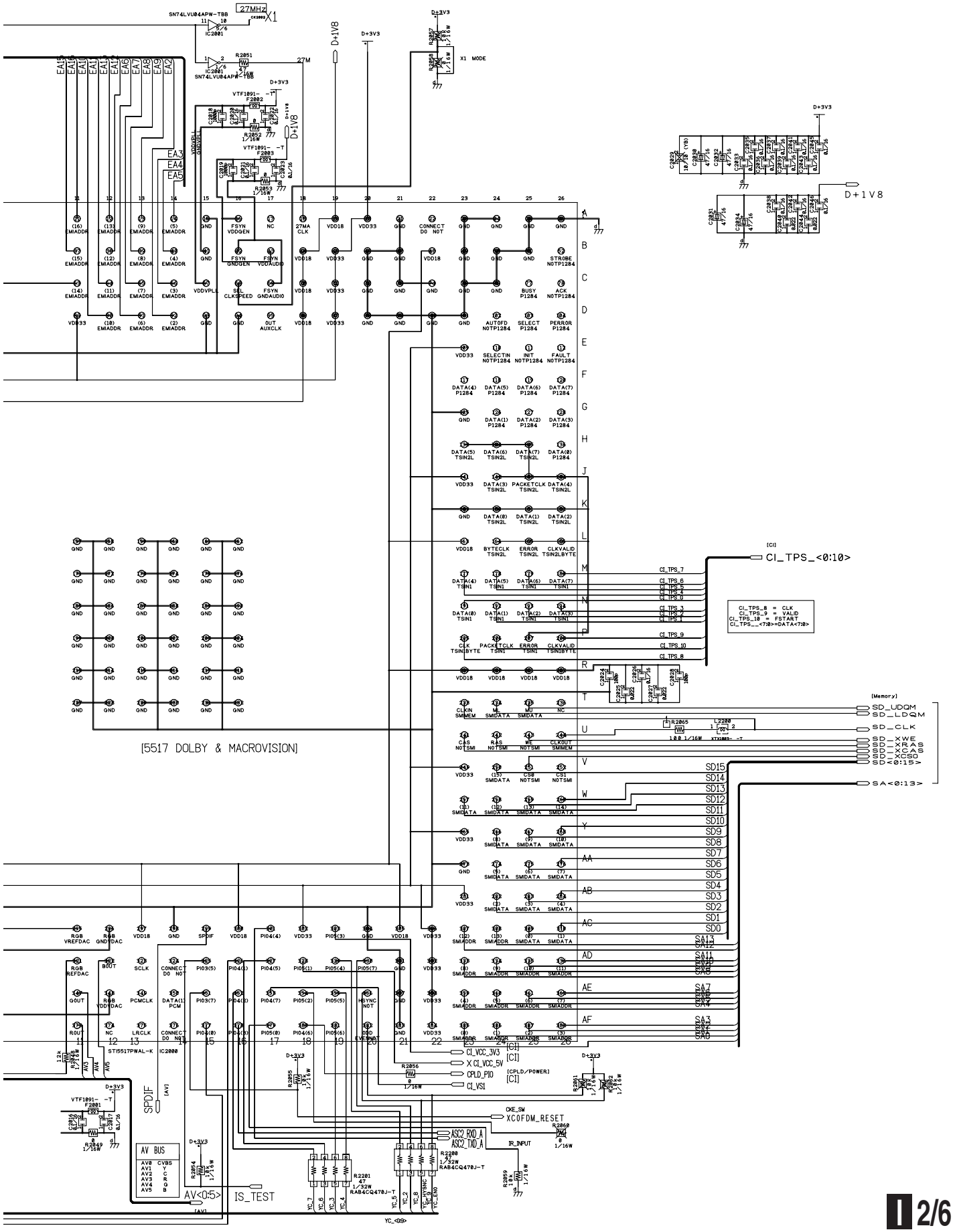

AGC_MONITOR
VA_1V8_1
VD_3V3_1
XTAL
SAW_SWITCH
LOCK
VALID
CLK
FSTART
AVVALID
AVCLK
AVDAT0
AVDAT1
AVDAT2
AVDAT3
AVDAT4
AVDAT5
AVDAT6
AVDAT7
AVFSTART
TS1_9
TS1_8
TS1_0
TS1_1
TS1_2
TS1_3
TS1_4
TS1_5
TS1_6
TS1_7
TS1_10
TS1_<0:10>
STV0361
STV0361L-K
IC1001
XC0FDM_RESET
IF_AGC
I2C_SCL_CHDEC
I2C_SDA_CHDEC
I2C_SCL_1
I2C_SDA_1
TS1_8 = CLK
TS1_9 = VALID
TS1_10 = FSTART
TS1_<7:0>=DATA<7:0>
TUNER_A+5V
VA_5V_1
Switched Supply
TUNER_+1V8
TUNER_+3V3
[CPLD/POWER]

3.29 TUNER BOARD ASSY (2/6)

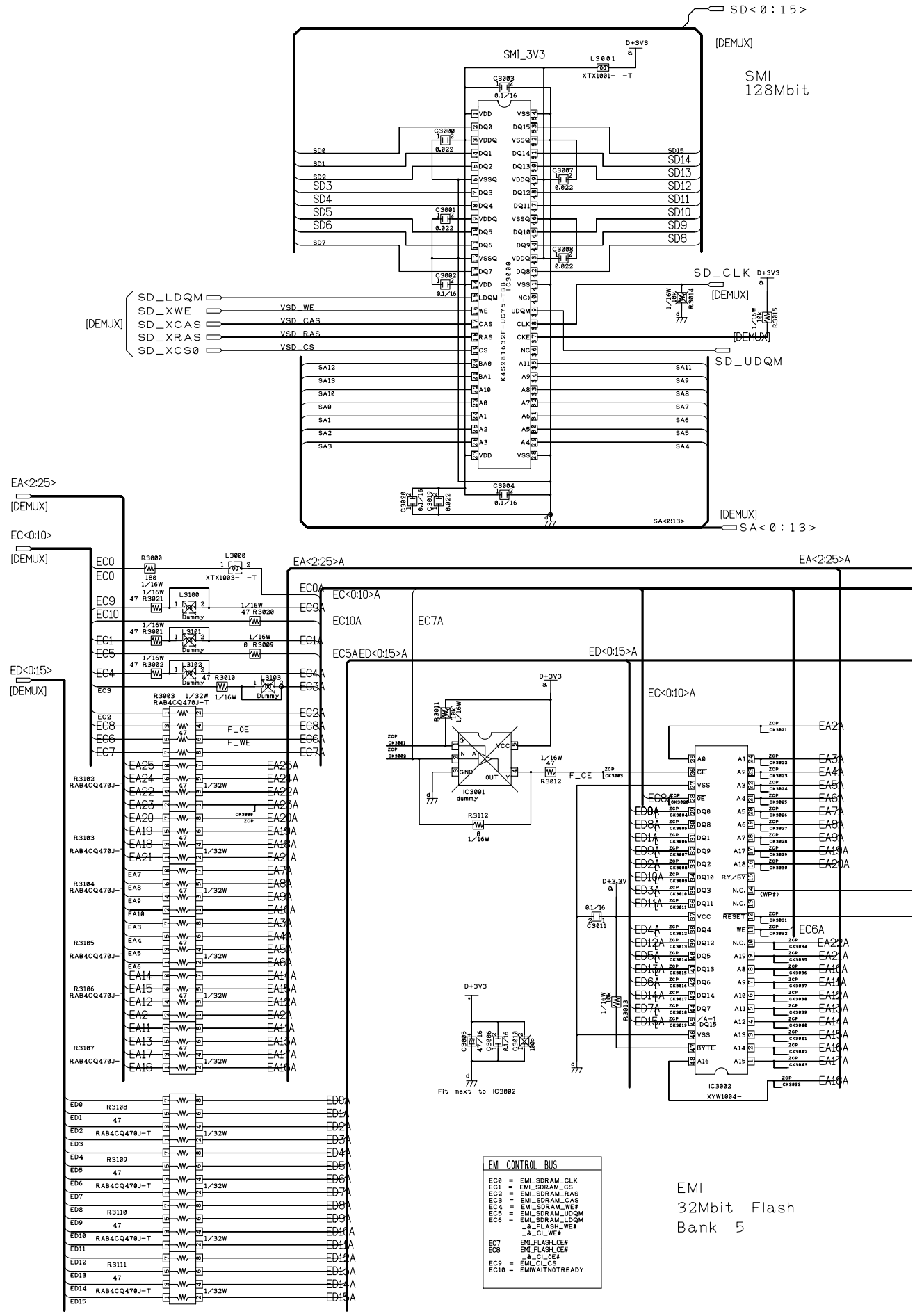
2/6 TUNER BOARD ASSY (AWE1301)



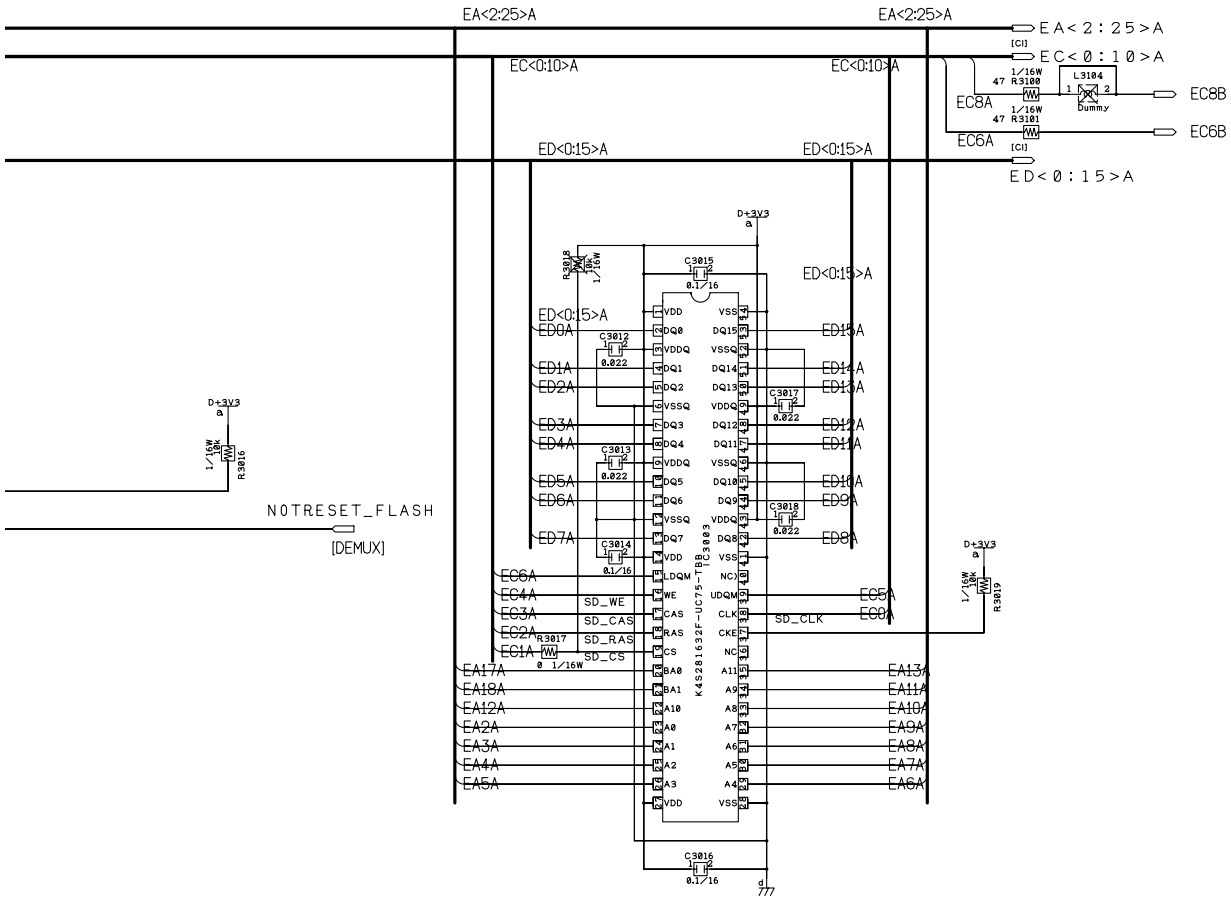
2/6


27MHz
X1
D+3V3
D+1V8
X1 MODE
[5517 DOLBY & MACROVISION]
CI_TPS_<0:10>
SD_UDQM
SD_LDQM
SD_CLK
SD_XWE
SD_XRAS
SD_XCAS
SD_XCSD
SD<0:15>
SA<0:13>
CI_VCC_3V3
X CI_VCC_5V
CPLD_PIO
CI_VS1
[CPLD/POWER]
XCOFDM_RESET
IR_INPUT
ASC2_RXD_A
ASC2_TXD_A
SPDIF
AV BUS
AV<0:5>
IS_TEST
YC_<0:9>
STI5517PWAL-K
IC2800

3.30 TUNER BOARD ASSY (3/6)

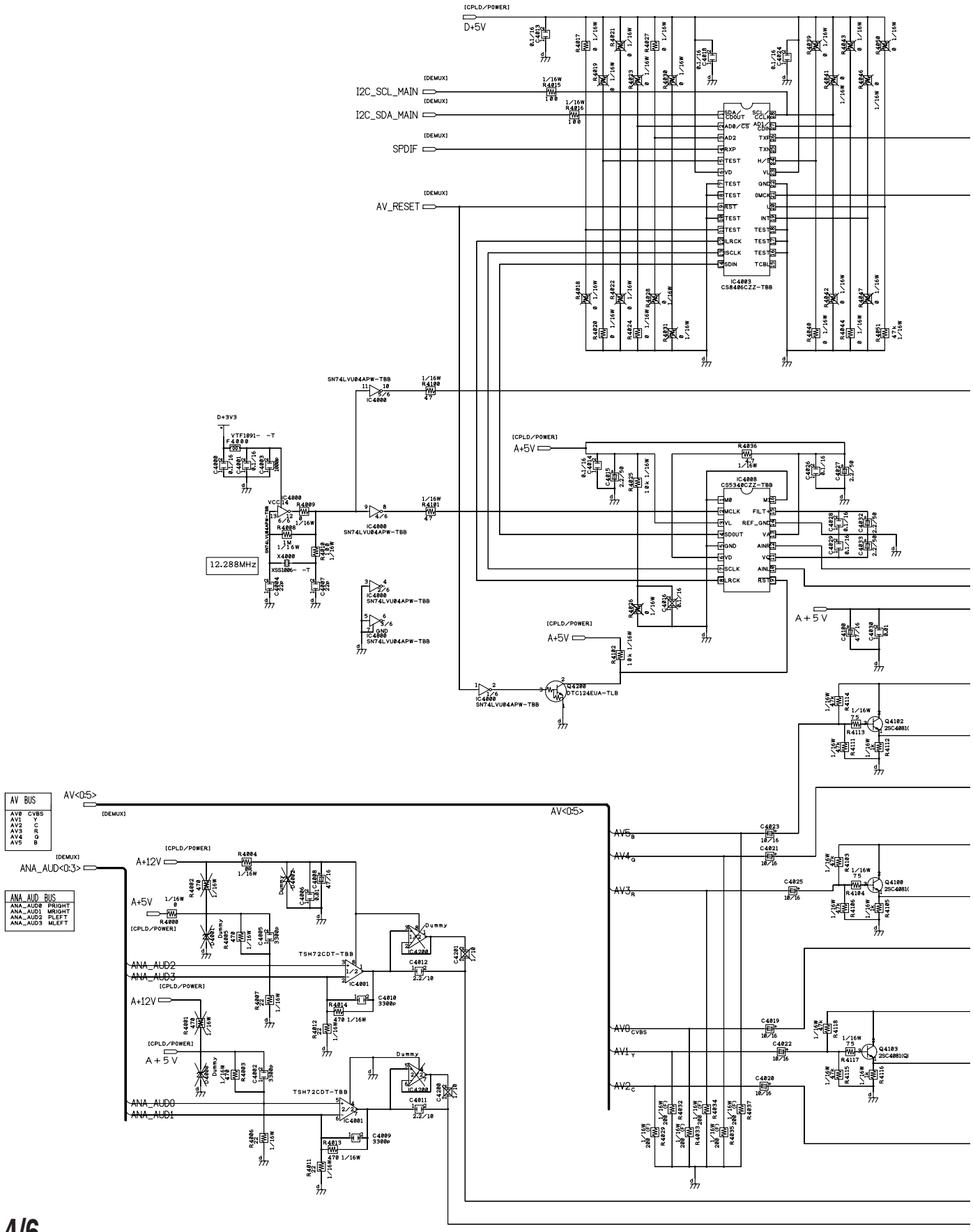


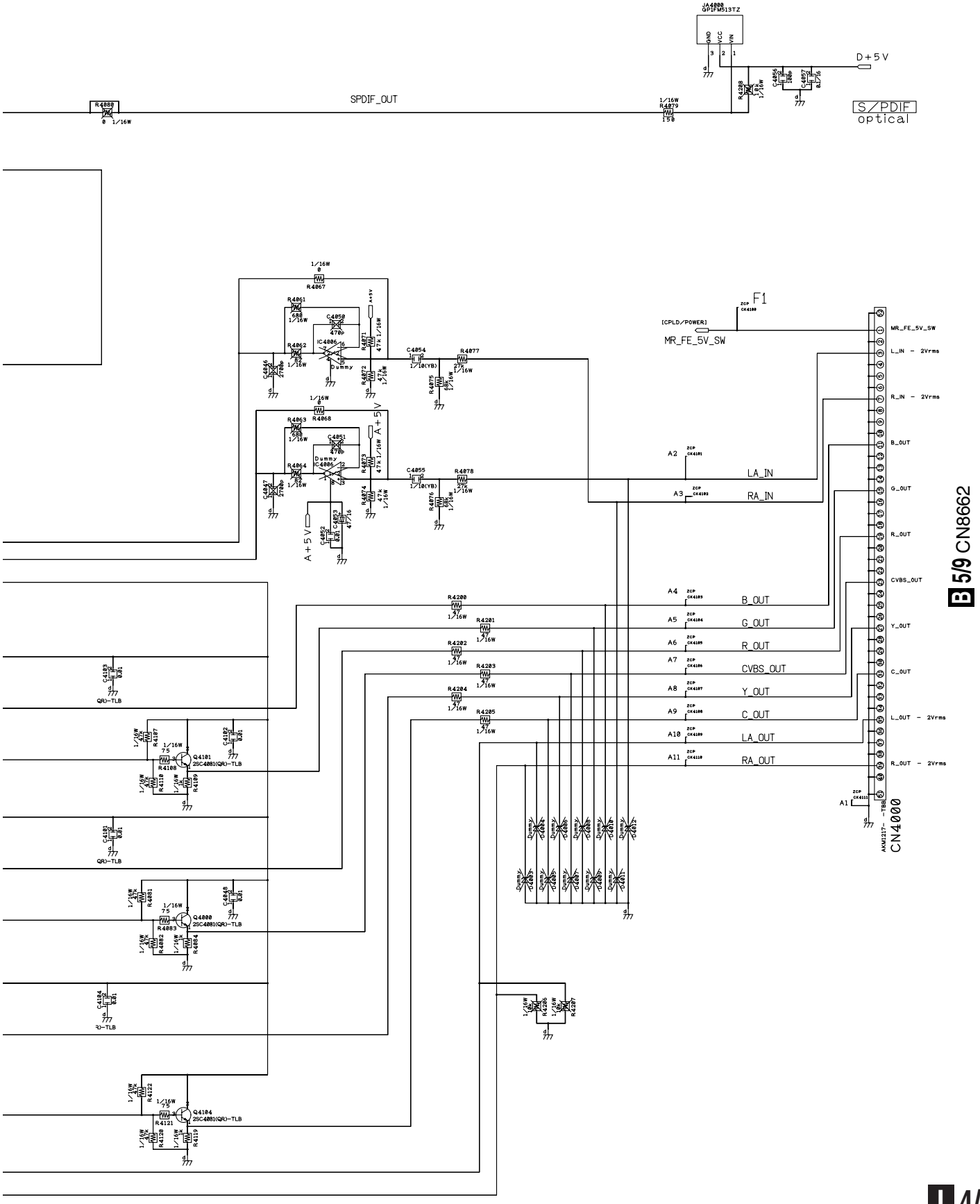
3/6 TUNER BOARD ASSY (AWE1301)



3.31 TUNER BOARD ASSY (4/6)

4/6 TUNER BOARD ASSY (AWE1301)



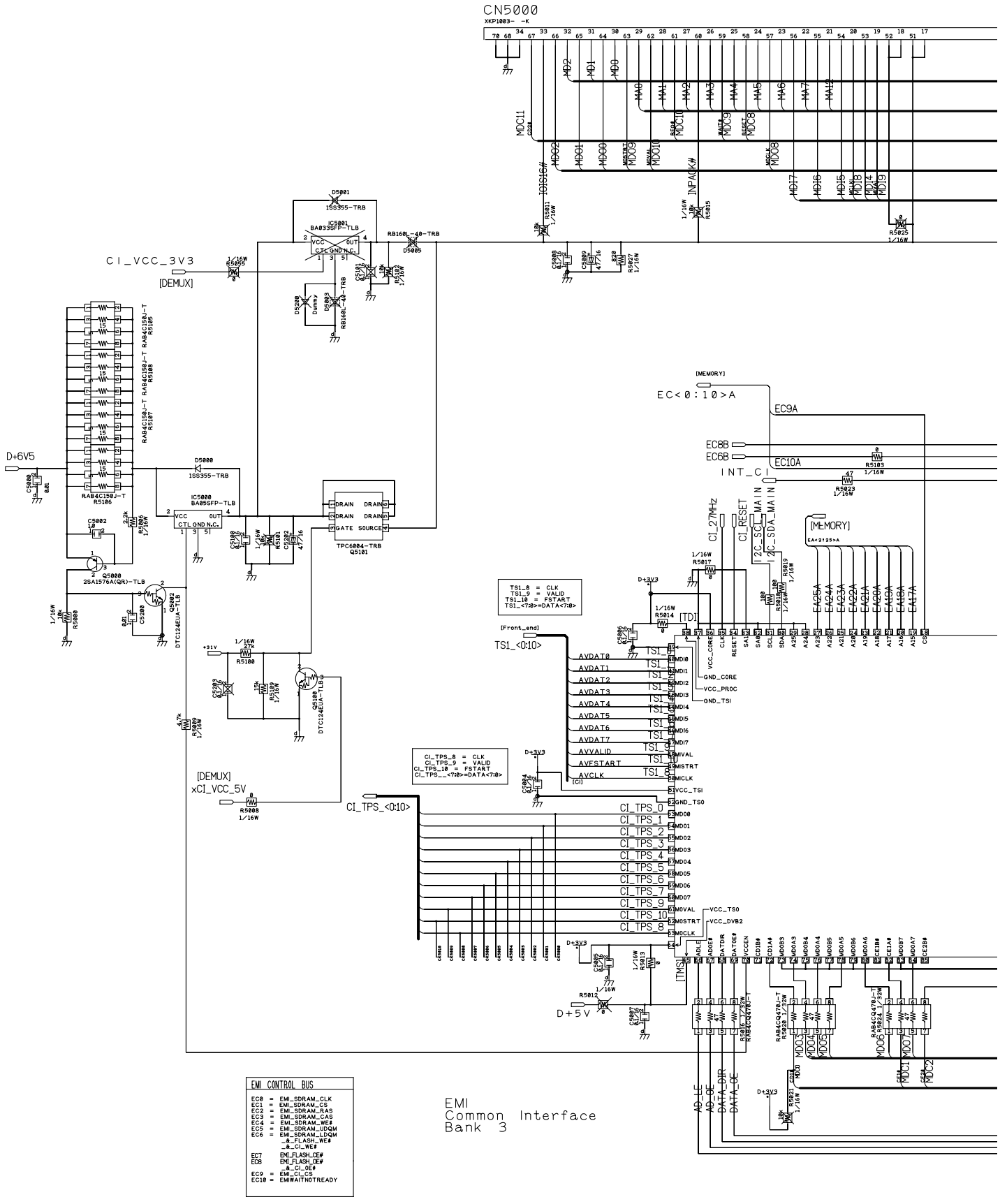


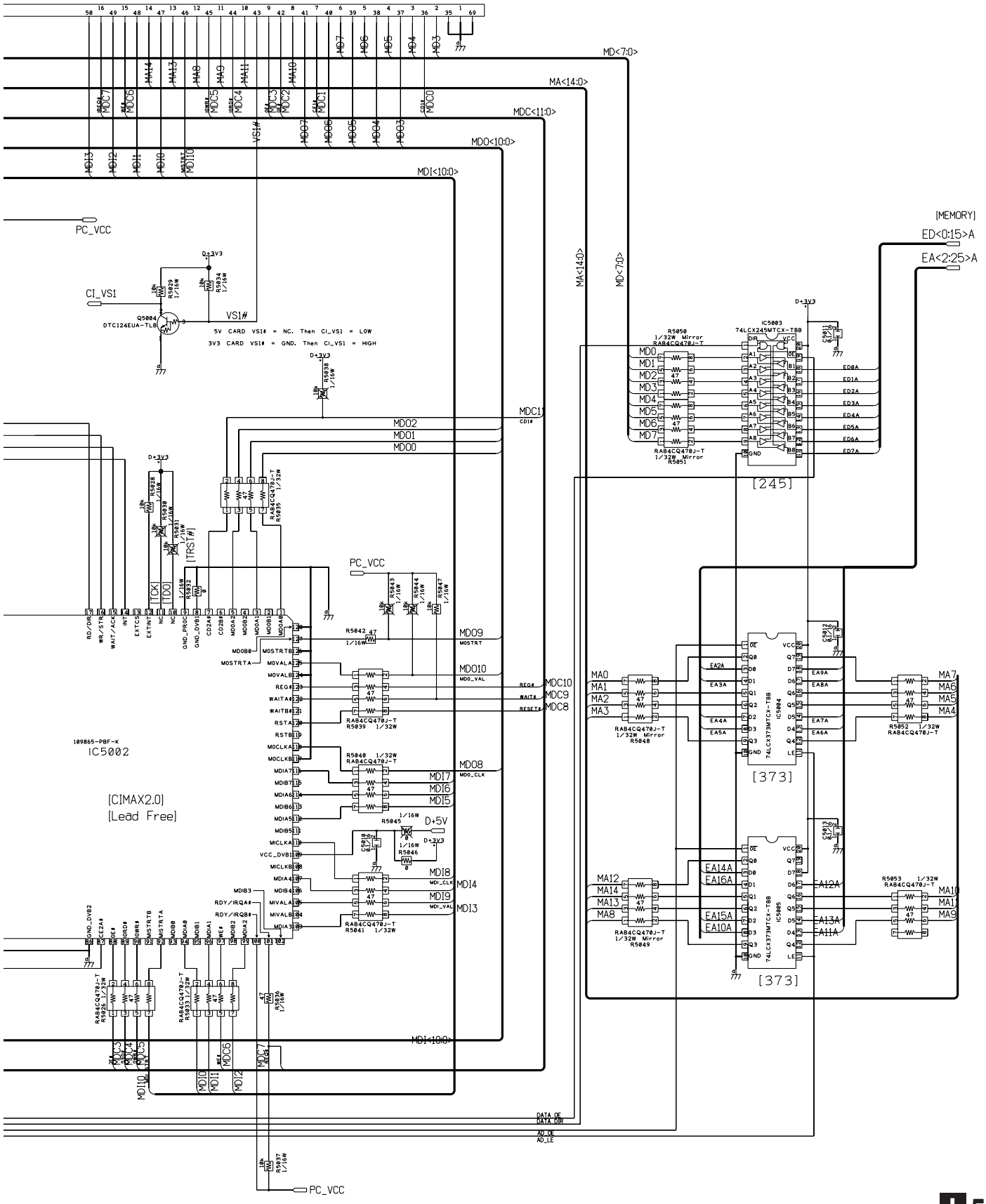
B 5/9 CN8662

I 4/6

3.32 TUNER BOARD ASSY (5/6)

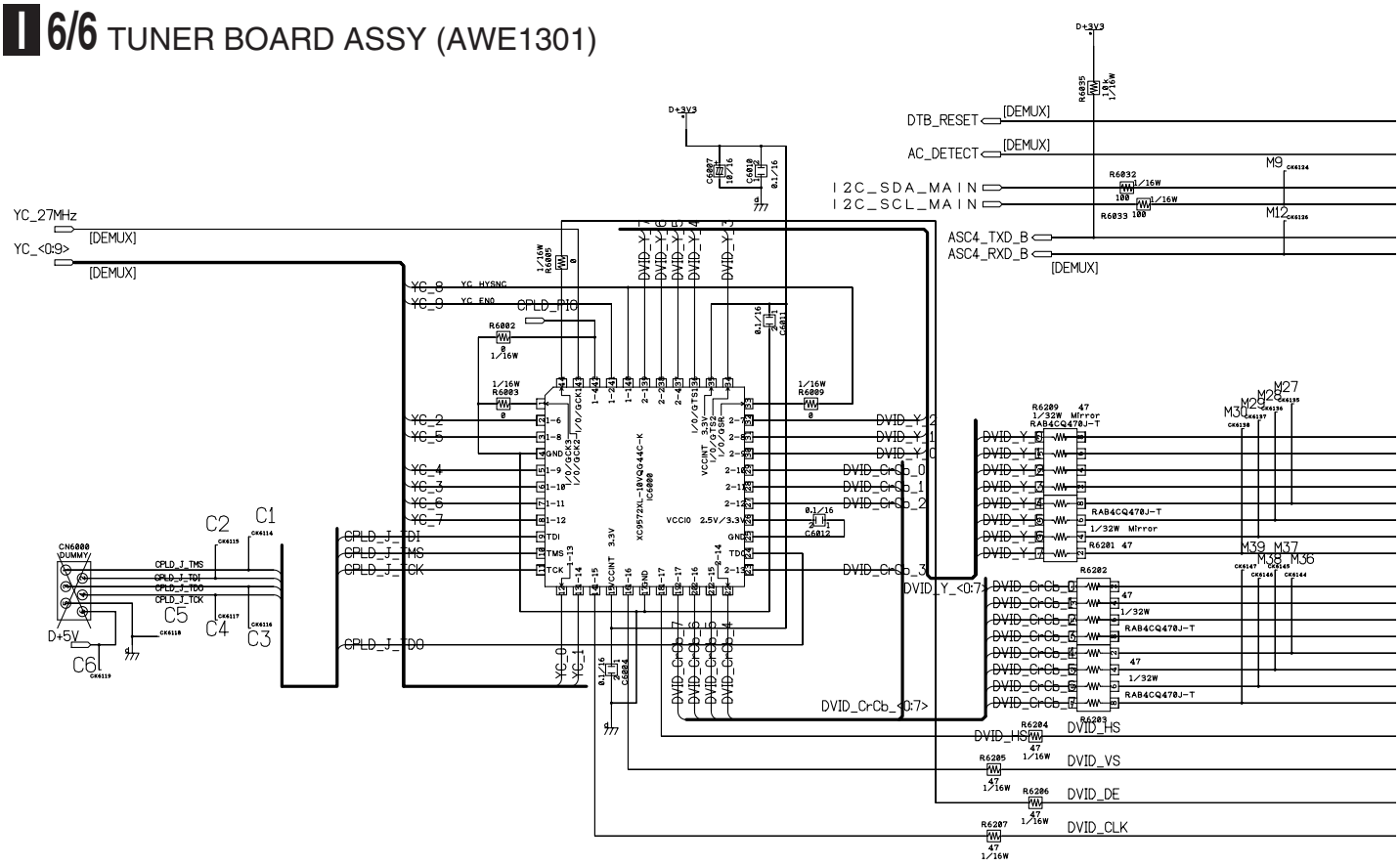
5/6 TUNER BOARD ASSY (AWE1301)

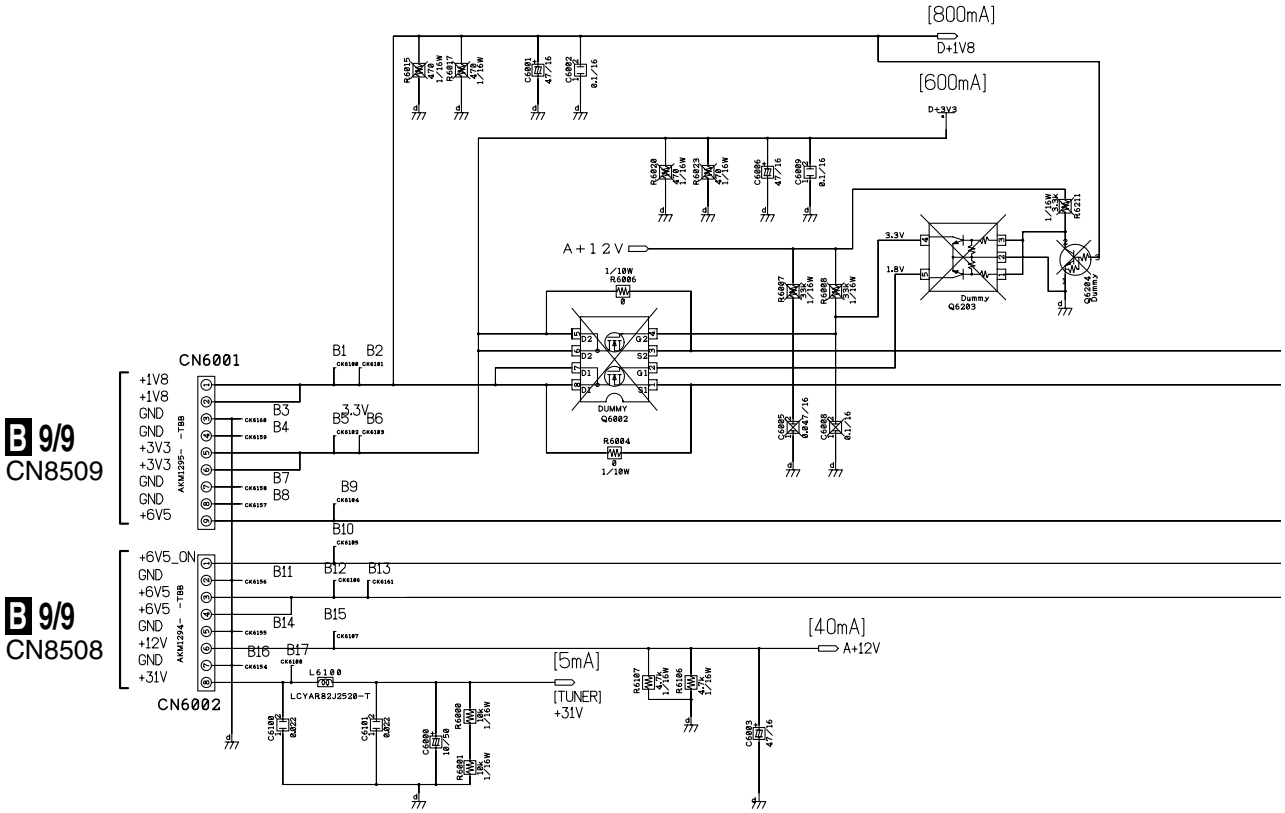



MD<7:0>
MA<14:0>
MDC<11:0>
MDO<10:0>
MDI<10:0>
PC_VCC
D+3V3
CI_VS1
VS1#
Q5004
DTC124EUA-TL8
5V CARD VS1# = NC. Then CI_VS1 = LOW
3V3 CARD VS1# = GND. Then CI_VS1 = HIGH
[MEMORY]
ED<0:15>A
EA<2:25>A
IC5003
74LCX245MTCX-TBB
[245]
[TCK]
[TDO]
[TRST#]
109865-PBF-K
IC5002
[CIMAX2.0]
[Lead Free]
MDO9
MDO10
MDO8
MDI7
MDI6
MDI5
MDI8
MDI4
MDI9
MDI3
MDC10
MDC9
MDC8
D+5V
MA0
MA1
MA2
MA3
MA4
MA5
MA6
MA7
MA8
MA9
MA10
MA11
MA12
MA13
MA14
EA2A
EA3A
EA4A
EA5A
EA9A
EA8A
EA7A
EA6A
EA14A
EA16A
EA15A
EA10A
EA12A
EA13A
EA11A
74LCX373MTCX-TBB
IC5004
IC5005
[373]
DATA OE
DATA DIR
AD_OE
AD_LE

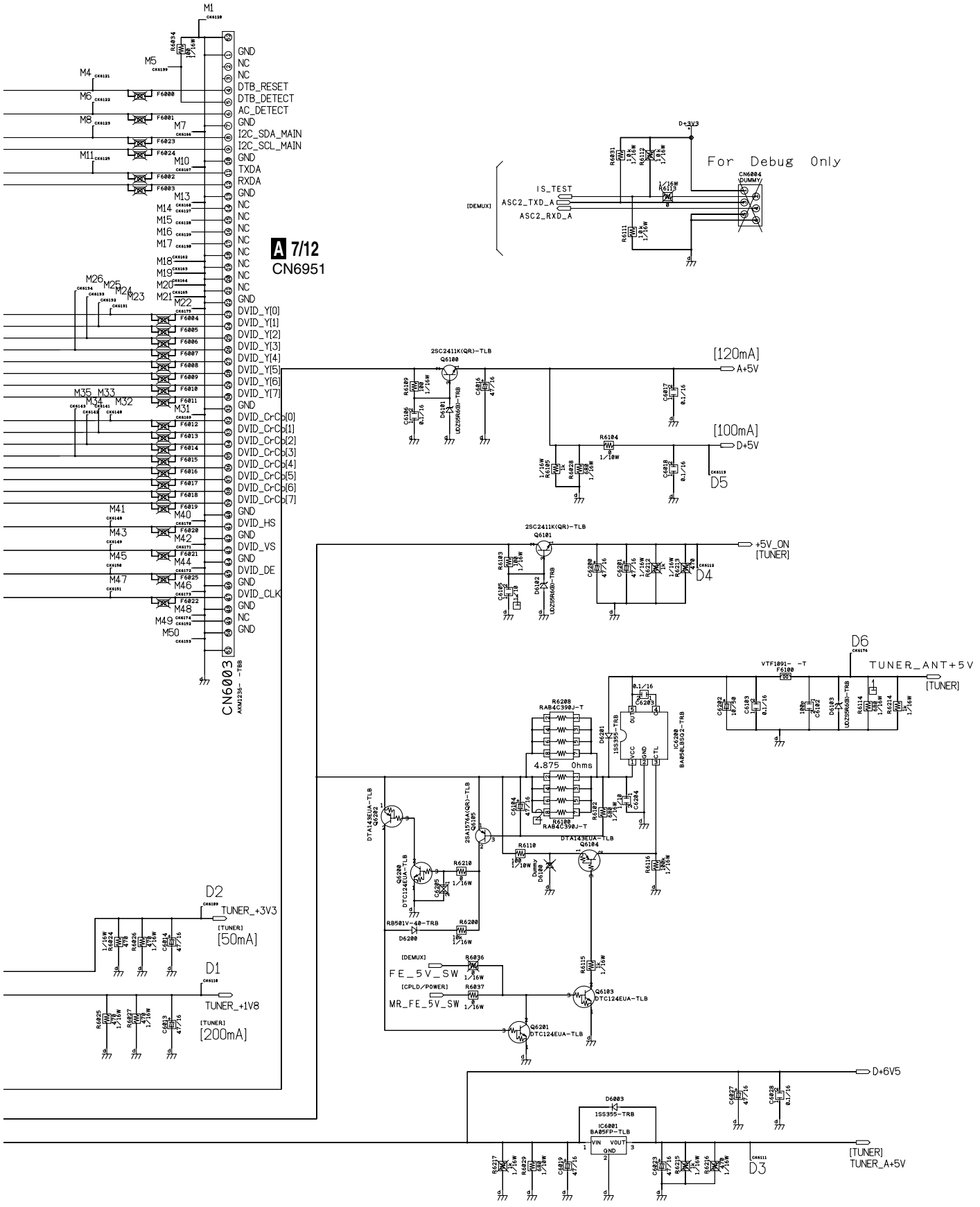
3.33 TUNER BOARD ASSY (6/6)

I 6/6 TUNER BOARD ASSY (AWE1301)



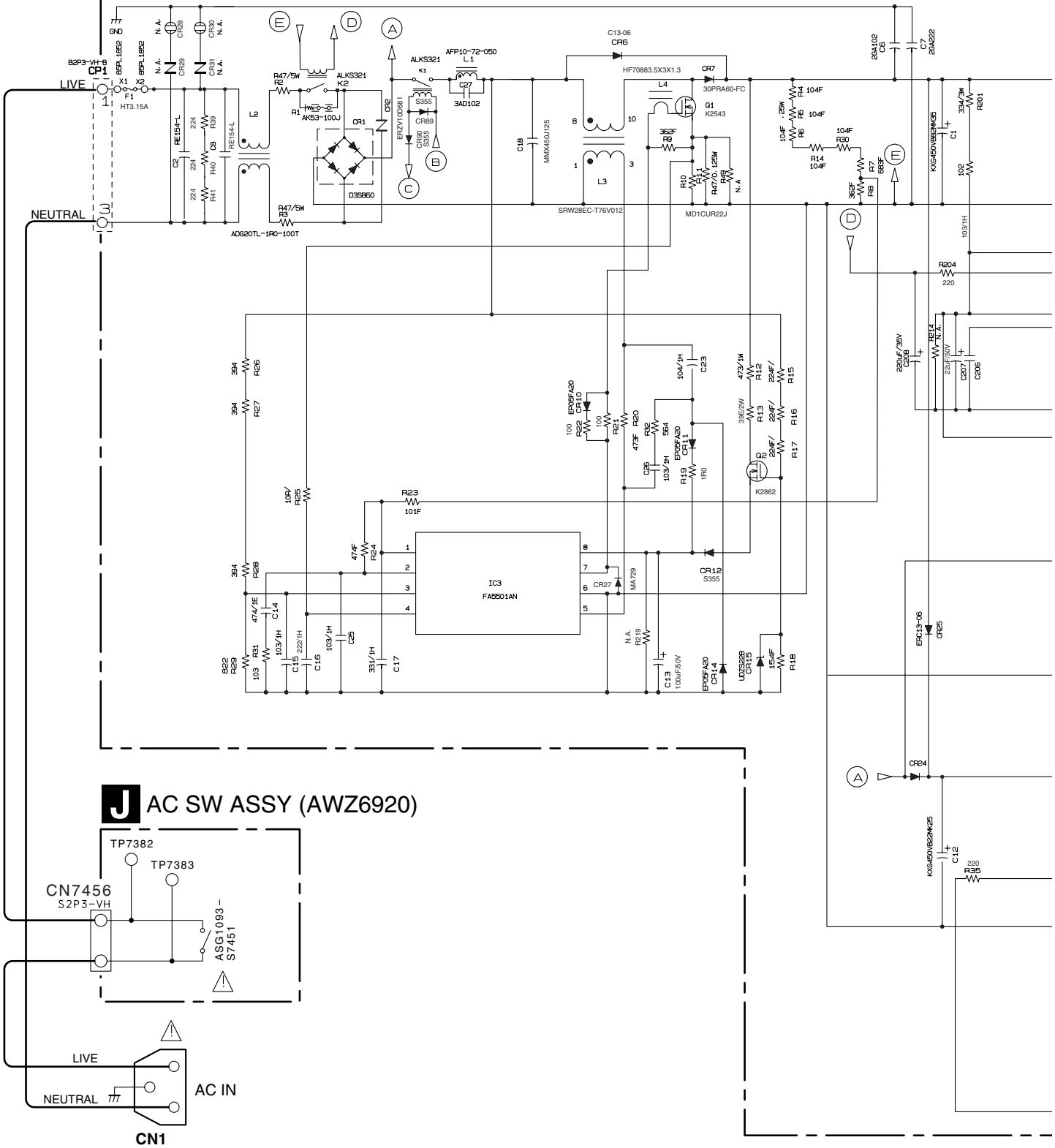


I 6/6


A 7/12
CN6951
CN6003
GND
NC
DTB_RESET
DTB_DETECT
AC_DETECT
I2C_SDA_MAIN
I2C_SCL_MAIN
TXDA
RXDA
DVID_Y[0]
DVID_Y[1]
DVID_Y[2]
DVID_Y[3]
DVID_Y[4]
DVID_Y[5]
DVID_Y[6]
DVID_Y[7]
DVID_CrCb[0]
DVID_CrCb[1]
DVID_CrCb[2]
DVID_CrCb[3]
DVID_CrCb[4]
DVID_CrCb[5]
DVID_CrCb[6]
DVID_CrCb[7]
DVID_HS
DVID_VS
DVID_DE
DVID_CLK
For Debug Only
IS_TEST
ASC2_TXD_A
ASC2_RXD_A
[DEMUX]
D+3V3
[120mA]
A+5V
[100mA]
D+5V
D5
+5V_ON
[TUNER]
D4
D6
TUNER_ANT+5V
[TUNER]
4.875 0hms
D2
TUNER_+3V3
[50mA]
D1
TUNER_+1V8
[200mA]
FE_5V_SW
MR_FE_5V_SW
[DEMUX]
[CPLD/POWER]
D+6V5
[TUNER]
TUNER_A+5V
D3

3.34 POWER SUPPLY UNIT

K POWER SUPPLY UNIT (AXY1091)

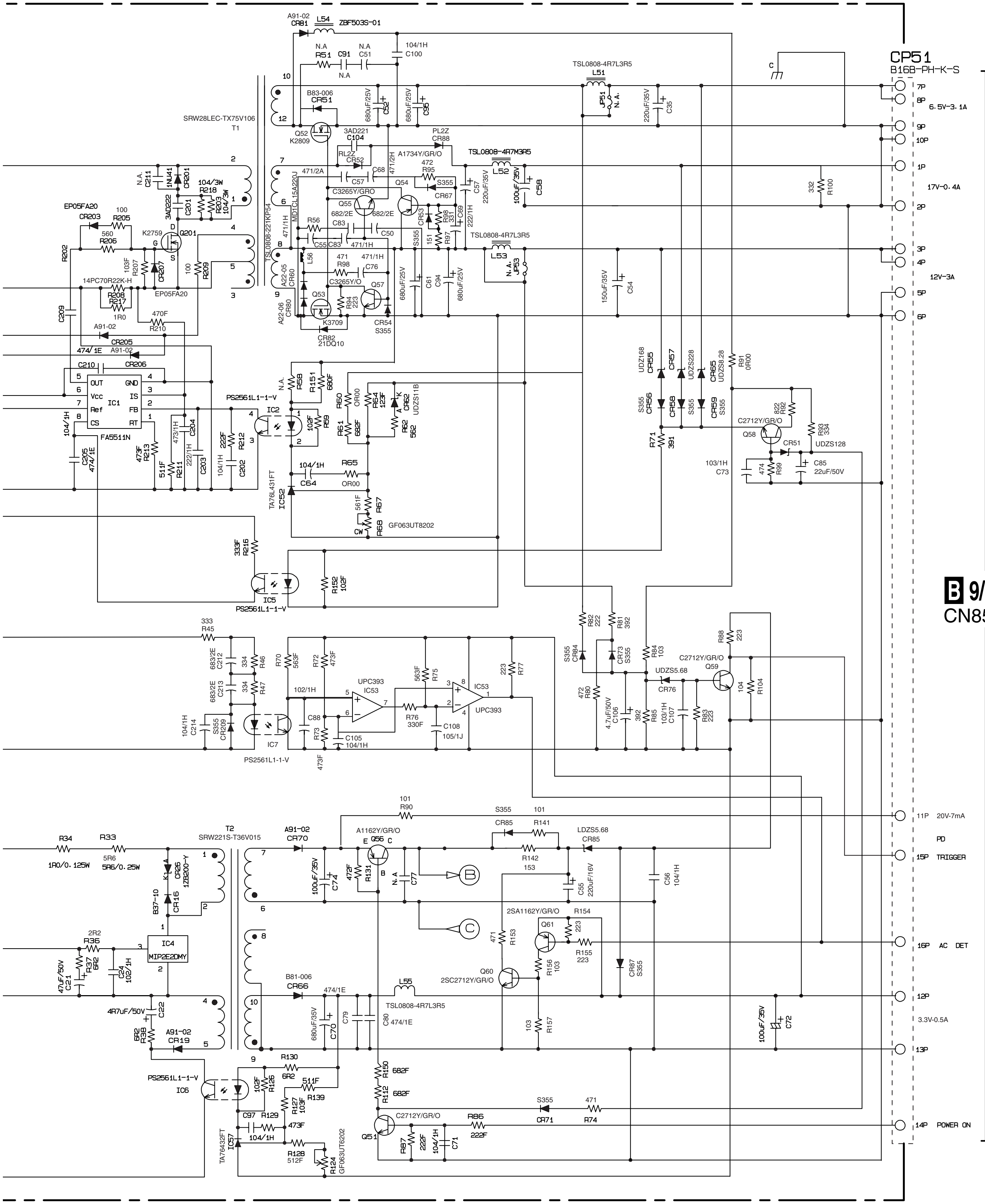


J AC SW ASSY (AWZ6920)

CN1
AC INLET
(AKP1272)

J K

A B C D E F


CP51
B16B-PH-K-S
7P
8P 6.5V-3.1A
9P
10P
1P
17V-0.4A
2P
3P
4P
12V-3A
5P
6P
B 9/9
CN8501
11P 20V-7mA
PD
15P TRIGGER
16P AC DET
12P
3.3V-0.5A
13P
14P POWER ON
T1
SRW28LEC-TX75V106
T2
SRW221S-T36V015
IC1
FA5511N
IC2
PS2561L1-1-V
IC5
PS2561L1-1-V
IC7
PS2561L1-1-V
IC6
PS2561L1-1-V
IC4
MIP2E2DMY
IC52
TA76L431FT
IC53
UPC393
IC57
TA76432FT

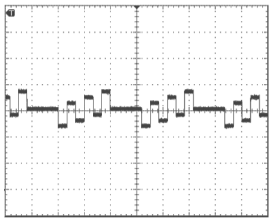
K

3.35 WAVEFORMS

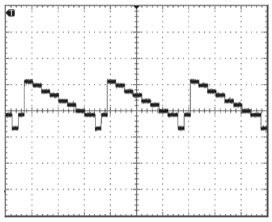
Note : The encircled numbers denote measuring point in the schematic diagram.

A MR MAIN BOARDASSY

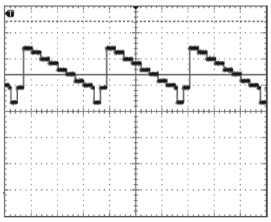
1 TP6402 (Component B)
V: 500mV/div. H: 20µsec/div.



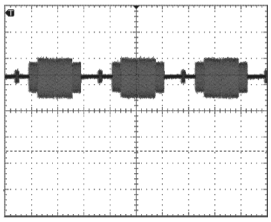
7 TP6605 (Component G)
V: 500mV/div. H: 20µsec/div.



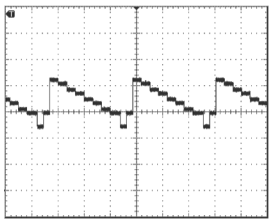
13 TP7456 (SUB_Y)
V: 1V/div. H: 20µsec/div.



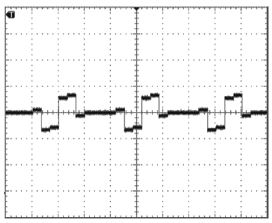
14 TP7457 (SUB_C)
V: 1V/div. H: 20µsec/div.



2 TP6403 (Component G)
V: 500mV/div. H: 20µsec/div.

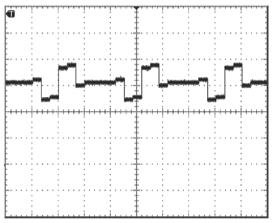


8 TP6606 (Component R)
V: 500mV/div. H: 20µsec/div.

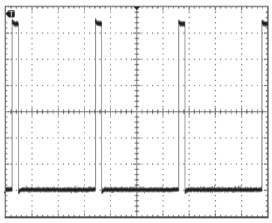


B AV BOARD ASSY

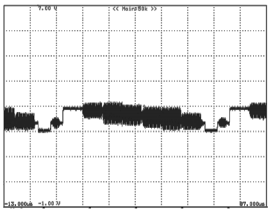
3 TP6404 (Component R)
V: 500mV/div. H: 20µsec/div.



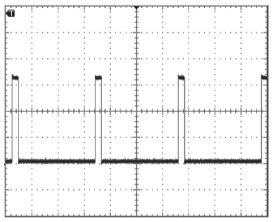
9 TP6607 (HD2_SUB)
V: 500mV/div. H: 20µsec/div.



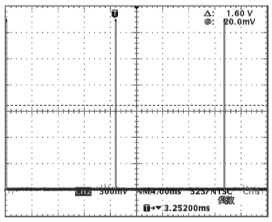
1 TP7502 (AIR_V)
V: 1V/div. H: 10µsec/div.



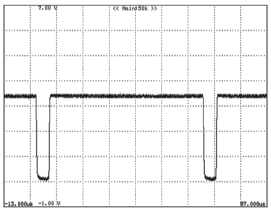
4 TP6405 (HD2_MAIN)
V: 1V/div. H: 20µsec/div.



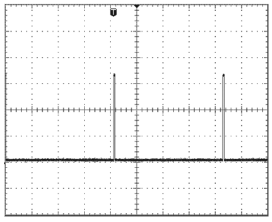
10 TP6608 (VD2_SUB)
V: 500mV/div. H: 4msec/div.



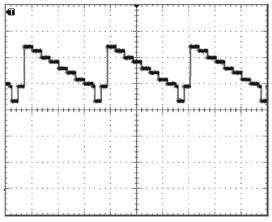
2 R7522 - R7534 (AIR_HS)
V: 1V/div. H: 10µsec/div.



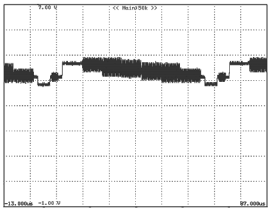
5 TP6406 (VD2_MAIN)
V: 1V/div. H: 400msec/div.



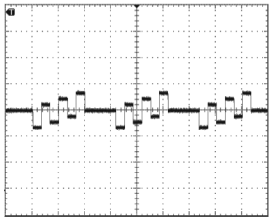
11 TP7451 (MAIN_Y)
V: 1V/div. H: 20µsec/div.



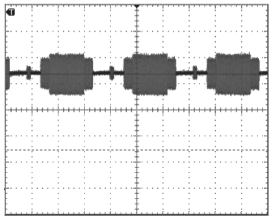
3 IC8002-pin 63 (AIR_V)
V: 1V/div. H: 10µsec/div.



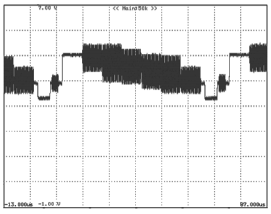
6 TP6604 (Component B)
V: 500mV/div. H: 20µsec/div.



12 TP7452 (MAIN_C)
V: 1V/div. H: 20µsec/div.



4 IC8002-pin 44 (MAIN_Y)
V: 1V/div. H: 10µsec/div.



3.36 VOLTAGES

B AV BOARD ASSY **A** MR MAIN BOARD ASSY

CN8654 (AKM1201)		Voltage (V)	CN7455 (AKM1201)	
No.	Name		Name	No.
1	RAPID_DT_3		RAPID_DT_3	50
2	RAPID_DT_1		RAPID_DT_1	49
3	AUDIO_R	0	AUDIO_R	48
4	GND	0	GND	47
5	AUDIO_L	0	AUDIO_L	46
6	GND	0	GND	45
7	HDMI_RCH	0	HDMI_RCH	44
8	GND	0	GND	43
9	HDMI_LCH	0	HDMI_LCH	42
10	GND	0	GND	41
11	PIXEL_CLK_IN		PIXEL_CLK_IN	40
12	TTX_RGB_DIG15		TTX_RGB_DIG15	39
13	TTX_RGB_DIG14		TTX_RGB_DIG14	38
14	TTX_RGB_DIG13		TTX_RGB_DIG13	37
15	TTX_RGB_DIG12		TTX_RGB_DIG12	36
16	TTX_RGB_DIG11		TTX_RGB_DIG11	35
17	TTX_RGB_DIG10		TTX_RGB_DIG10	34
18	TTX_RGB_DIG9		TTX_RGB_DIG9	33
19	TTX_RGB_DIG8		TTX_RGB_DIG8	32
20	TTX_RGB_DIG7		TTX_RGB_DIG7	31
21	TTX_RGB_DIG6		TTX_RGB_DIG6	30
22	TTX_RGB_DIG5		TTX_RGB_DIG5	29
23	TTX_RGB_DIG4		TTX_RGB_DIG4	28
24	TTX_RGB_DIG3		TTX_RGB_DIG3	27
25	TTX_RGB_DIG2		TTX_RGB_DIG2	26
26	TTX_RGB_DIG1		TTX_RGB_DIG1	25
27	TTX_RGB_DIG0		TTX_RGB_DIG0	24
28	AIR_AFT	1.8	AIR_AFT	23
29	AIR_HS	0.5	AIR_HS	22
30	RST_IF	3.3	RST_IF	21
31	TXD_WR	3.3	TXD_WR	20
32	RXD_WR	3.3	RXD_WR	19
33	SDA_AV	5	SDA_AV	18
34	SCL_AV	5	SCL_AV	17
35	RXD_IF	3.3	RXD_IF	16
36	TXD_IF	3.3	TXD_IF	15
37	CLK_IF	3.3	CLK_IF	14
38	REQ_IF	0	REQ_IF	13
39	BUSY_IF	0	BUSY_IF	12
40	CE_IF	3.3	CE_IF	11
41	RESET_TXT	3.3	RESET_TXT	10
42	RELAY	2.4	RELAY	9
43	REM_B	3.3	REM_B	8
44	PSW1	0	PSW1	7
45	PD_MAIN	0	PD_MAIN	6
46	WE_ROM	0	WE_ROM	5
47	AM_MUTE	0	AM_MUTE	4
48	HP_VOL		HP_VOL	3
49	HP_MUTE		HP_MUTE	2
50	ELITE_DET		ELITE_DET	1

B AV BOARD ASSY **A** MR MAIN BOARD ASSY

CN8651 (KM200NA15)		Voltage (V)	CN7451 (AKM1301)	
No.	Name		Name	No.
1	GND	0.0	GND	15
2	V+3V_STB	3.3	V+3V_STB	14
3	GND	0.0	GND	13
4	V+3V_UCOM	3.3	V+3V_UCOM	12
5	GND	0.0	GND	11
6	V+12V_16V	16.9	V+12V_16V	10
7	GND	0.0	GND	9
8	V+6V	6.7	V+6V	8
9	GND_D	0.0	GND_D	7
10	V+1V_DD	1.5	V+1V_DD	6
11	V+1V_DD	1.5	V+1V_DD	5
12	GND_D	0.0	GND_D	4
13	V+3V_DD	3.3	V+3V_DD	3
14	V+3V_DD	3.3	V+3V_DD	2
15	GND_D	0.0	GND_D	1

B AV BOARD ASSY **L** PC CARD MODULE

CN8660 (AKM1233)		Voltage (V)	CN501	
No.	Name		Name	No.
1	RXD_CARD	3.32	RXD_CARD	12
2	TXD_CARD	3.33	TXD_CARD	11
3	NC		NC	10
4	CARD_V	3.31	CARD_V	9
5	CARD_H	3.31	CARD_H	8
6	GND	0.00	GND	7
7	GND	0.00	GND	6
8	YUVD1_B	0.51	YUVD1_B	5
9	GND	0.00	GND	4
10	YUVD1_G	0.56	YUVD1_G	3
11	GND	0.00	GND	2
12	YUVD1_R	0.52	YUVD1_R	1

B AV BOARD ASSY **L** PC CARD MODULE

CN8502 (KM200NA6)		Voltage (V)	CN1	
No.	Name		Name	No.
1	V+3V_CARD	3.35	V+3V_CARD	1
2	V+3V_CARD	3.35	V+3V_CARD	2
3	GND	0.00	GND	3
4	GND	0.00	GND	4
5	V+5V_CARD	5.00	V+5V_CARD	5
6	GND	0.00	GND	6

B AV BOARD ASSY — **A** MR MAIN BOARD ASSY

CN8652 (AKM1201)		Voltage (V)	CN7454 (AKM1201)	
No.	Name		Name	No.
1	AC_DET	2.7	AC_DET	50
2	KEY_B	3.3	KEY_B	49
3	STB_MT	0	STB_MT	48
4	AC_OFF	0	AC_OFF	47
5	SDA_EP2	3.3	SDA_EP2	46
6	SCL_EP2	3.3	SCL_EP2	45
7	VCC_EP	3.3	VCC_EP	44
8	SDA_HDMI/TXT		SDA_HDMI/TXT	43
9	SCL_HDMI/TXT		SCL_HDMI/TXT	42
10	WE_TXT	0	WE_TXT	41
11	RXD_CARD		RXD_CARD	40
12	TXD_CARD		TXD_CARD	39
13	DSUB_DET	0	DSUB_DET	38
14	PN2	0	PN2	37
15	VD_TXT	0	VD_TXT	36
16	HD_TXT	0	HD_TXT	35
17	PCA_V_SUB	0	PCA_V_SUB	34
18	PCA_H_SUB	0	PCA_H_SUB	33
19	PCA_V	0	PCA_V	32
20	PCA_H	0	PCA_H	31
21	BLK	0	BLK	30
22	FBLK_SUB		FBLK_SUB	29
23	FBLK_MAIN		FBLK_MAIN	28
24	GND	0	GND	27
25	SUBC_Y	4.5	SUBC_Y	26
26	GND	0	GND	25
27	SUBC_PR	4.5	SUBC_PR	24
28	GND	0	GND	23
29	SUBC_PB	4.5	SUBC_PB	22
30	GND	0	GND	21
31	SUB_C	4.3	SUB_C	20
32	GND	0	GND	19
33	SUB_Y	3.7	SUB_Y	18
34	GND	0	GND	17
35	G_CCTXT	1.3	G_CCTXT	16
36	GND	0	GND	15
37	R_CCTXT	1.3	R_CCTXT	14
38	GND	0	GND	13
39	B_CCTXT	1.3	B_CCTXT	12
40	GND	0	GND	11
41	MAINC_Y	4.5	MAINC_Y	10
42	GND	0	GND	9
43	MAINC_PR	4.5	MAINC_PR	8
44	GND	0	GND	7
45	MAINC_PB	4.5	MAINC_PB	6
46	GND	0	GND	5
47	MAIN_C	4.4	MAIN_C	4
48	GND	0	GND	3
49	MAIN_Y	4.4	MAIN_Y	2
50	GND	0	GND	1

I TUNER BOARD ASSY — **A** MR MAIN BOARD ASSY

CN6003 (AKM1236)		Voltage (V)	CN6951 (AKM1201)	
No.	Name		Name	No.
1	GND	0	GND	50
2	N.C.	–	N.C.	49
3	N.C.	–	N.C.	48
4	RESET	3.37	RST_DT	47
5	DTB_DET	0	DT_DET	46
6	AC_DETECT		AC_DETECT	45
7	GND	0	GND	44
8	SDA_MAIN		SDA_MAIN	43
9	SCL_MAIN		SCL_MAIN	42
10	GND	0	GND	41
11	TXDA	3.3	RXDA	40
12	RXDA	3.3	TXDA	39
13	N.C.	–	N.C.	38
14	N.C.	–	N.C.	37
15	N.C.	–	N.C.	36
16	N.C.	–	N.C.	35
17	N.C.	–	N.C.	34
18	N.C.	–	N.C.	33
19	N.C.	–	N.C.	32
20	N.C.	–	N.C.	31
21	N.C.	–	N.C.	30
22	GND	0	GND	29
23	DVID_Y0	0/3.3	DVID_Y0	28
24	DVID_Y1	0/3.3	DVID_Y1	27
25	DVID_Y2	0/3.3	DVID_Y2	26
26	DVID_Y3	0/3.3	DVID_Y3	25
27	DVID_Y4	0/3.3	DVID_Y4	24
28	DVID_Y5	0/3.3	DVID_Y5	23
29	DVID_Y6	0/3.3	DVID_Y6	22
30	DVID_Y7	0/3.3	DVID_Y7	21
31	GND	0	GND	20
32	DVID_PbPr0	0/3.3	DVID_PbPr0	19
33	DVID_PbPr1	0/3.3	DVID_PbPr1	18
34	DVID_PbPr2	0/3.3	DVID_PbPr2	17
35	DVID_PbPr3	0/3.3	DVID_PbPr3	16
36	DVID_PbPr4	0/3.3	DVID_PbPr4	15
37	DVID_PbPr5	0/3.3	DVID_PbPr5	14
38	DVID_PbPr6	0/3.3	DVID_PbPr6	13
39	DVID_PbPr7	0/3.3	DVID_PbPr7	12
40	GND	0	GND	11
41	DVID_HS	3.1	DVID_HS	10
42	GND	0	GND	9
43	DVID_VS	3.2	DVID_VS	8
44	GND	0	GND	7
45	DVID_DE	2.6	DVID_DE	6
46	GND	0	GND	5
47	DVID_CLK	1.6	DVID_CLK	4
48	GND	0	GND	3
49	SPDIF		SPDIF	2
50	GND	0	GND	1

A MR MAIN BOARD ASSY — FAN MOTOR

CN7202 , CN7204 (AKM1274)		Voltage (V)	CN6951 (AKM1201)	
No.	Name		Name	No.
1	FAN_12V	6.9		
2	FAN_NG	0		
3	GND	0		

B AV BOARD ASSY — **H** LED ASSY

CN8656 (KM200NA7)		Voltage (V)	CN7651 (AKM1293-A-TBB)	
No.	Name		Name	No.
1	V+3V_STB	3.3	V+3V_STB	1
2	LED_G	0	LED_G	2
3	LED_R	3.3	LED_R	3
4	GND	0	GND	4
5	LED_MDM	0	LED_MDM	5
6	LED_FCT	3.3	LED_FCT	6
7	GND	0.0	GND	7

B AV BOARD ASSY — **K** POWER SUPPLY UNIT

CN8501 (KM200NA16)		Voltage (V)	CP51 (KM200NA16)	
No.	Name		Name	No.
1	V+16.5V	17.6	V+16.5V	1
2	GND	0	GND	2
3	V+12V	12	V+12V	3
4	V+12V	12	V+12V	4
5	GND	0	GND	5
6	GND	0	GND	6
7	V+6.5V	6.8	V+6.5V	7
8	V+6.5V	6.8	V+6.5V	8
9	GND	0	GND	9
10	GND	0	GND	10
11	V+12V_STB	14.9	V+12V_STB	11
12	V+3V_STB	3.3	V+3V_STB	12
13	GND	0	GND	13
14	RELAY	2.4	RELAY	14
15	PD_TRIGGER	0	PD_TRIGGER	15
16	AC_DET	2.7	AC_DET	16

B AV BOARD ASSY — **F** SR ASSY

CN8658 (AKM1233)		Voltage (V)	CN9452 (CKS3826)	
No.	Name		Name	No.
1	V+5V_STB	5.0	V+5V_STB	12
2	V+3V_STB	3.3	V+3V_STB	11
3	TXD	3.3	TXD	10
4	RXD	3.3	RXD	9
5	232C_DET	0.0	232C_DET	8
6	SR_EN_B	3.3	SR_EN_B	7
7	GND	0.0	GND	6
8	SR_OUT	3.3	SR_OUT	5
9	SR_IN	3.3	SR_IN	4
10	GND	0.0	GND	3
11	IR	0.0	IR	2
12	GND	0.0	GND	1

A MR MAIN BOARD ASSY — TRAP SW

CN7203 (AKM1213)		Voltage (V)		
No.	Name		Name	No.
1	TRAP_SW	0.7		
2	NC			
3	V+3V_UCOM	3.3		

B AV BOARD ASSY — **I** TUNER BOARD ASSY

CN8509 (KM200NA9)		Voltage (V)	CN6001 (KM200NA9)	
No.	Name		Name	No.
1	V+1.8V_DD	1.8	V+1.8V_DD	1
2	V+1.8V_DD	1.8	V+1.8V_DD	2
3	GND	0	GND	3
4	GND	0	GND	4
5	V+3V_DD	3	V+3V_DD	5
6	V+3V_DD	3	V+3V_DD	6
7	GND	0	GND	7
8	GND	0	GND	8
9	V+6V_EU	6	V+6V_EU	9

B AV BOARD ASSY — **I** TUNER BOARD ASSY

CN8508 (KM200NA8)		Voltage (V)	CN6002 (KM200NA8)	
No.	Name		Name	No.
1	V+6V_ON	6	V+6V_ON	1
2	GND	0	GND	2
3	V+6V	6	V+6V	3
4	V+6V	6	V+6V	4
5	GND	0	GND	5
6	V+12V	12	V+12V	6
7	GND	0	GND	7
8	V+30V_EU	30	V+30V_EU	8

A MR MAIN BOARD ASSY — **E** MDR ASSY

CN7402 (AKM1234)		Voltage (V)	CN9302 (CKS3830)	
No.	Name		Name	No.
16	GND_D	0	GND_D	1
15	AUDIO_L	0	AUDIO_L	2
14	ACT3V	3.3	ACT3V	3
13	AUDIO_R	0	AUDIO_R	4
12	V+3V_UCOM	3.3	V+3V_UCOM	5
11	STB3V	3.3	STB3V	6
10	SP_MUTE	3.3	SP_MUTE	7
9	MTXD	3.3	MTXD	8
8	FIELD	0	FIELD	9
7	MRXD	3.3	MRXD	10
6	REM_B	3.3	REM_B	11
5	P_ST_B	0	P_ST_B	12
4	AC_OFF	0	AC_OFF	13
3	REQ	0	REQ	14
2	KEY_B	3.3	KEY_B	15
1	STB_MT	0	STB_MT	16

B AV BOARD ASSY

G FRONT ASSY

CN8653 (AKM1201)		Voltage (V)	CN9502 (AKM1201)	
No.	Name		Name	No.
50	V+9V_A	9.0	V+9V_A	1
49	V+5V_A	5.0	V+5V_A	2
48	V+3VCOM	3.3	V+3VCOM	3
47	WE_ROM	0.0	WE_ROM	4
46	PC_V	0.0	PC_V	5
45	GND	0.0	GND	6
44	PC_H	0.0	PC_H	7
43	GND	0.0	GND	8
42	PC_B	4.6	PC_B	9
41	GND	0.0	GND	10
40	PC_G	4.7	PC_G	11
39	GND	0.0	GND	12
38	PC_R	4.7	PC_R	13
37	GND	0.0	GND	14
36	GND	4.7	GND	15
35	PC_RCH	4.4	PC_RCH	16
34	GND	0.0	GND	17
33	PC_LCH	4.4	PC_LCH	18
32	GND	0.0	GND	19
31	V4_R	4.4	V4_R	20
30	GND	0.0	GND	21
29	V4_L	4.4	V4_L	22
28	GND	0.0	GND	23
27	GND	0.0	GND	24
26	V4_V	3.9	V4_V	25
25	GND	0.0	GND	26
24	V4_S2	0.1	V4_S2	27
23	V4_SPLUG	4.9	V4_SPLUG	28
22	GND	0.0	GND	29
21	V4_C	4.4	V4_C	30
20	GND	0.0	GND	31
19	V4_Y	3.9	V4_Y	32
18	GND	0.0	GND	33
17	GND	0.0	GND	34
16	HP_PLUG	0.0	HP_PLUG	35
15	HP_R	2.1	HP_R	36
14	GND	0.0	GND	37
13	HP_L	2.1	HP_L	38
12	GND	0.0	GND	39
11	GND	0.0	GND	40
10	NO_USE	–	NO_USE	41
9	GND	0.0	GND	42
8	GND	0.0	GND	43
7	NO_USE	–	NO_USE	44
6	GND	0.0	GND	45
5	GND	0.0	GND	46
4	NO_USE	–	NO_USE	47
3	GND	0.0	GND	48
2	GND	0.0	GND	49
1	NO_USE	–	NO_USE	50

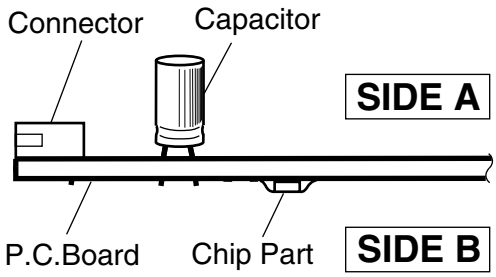
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

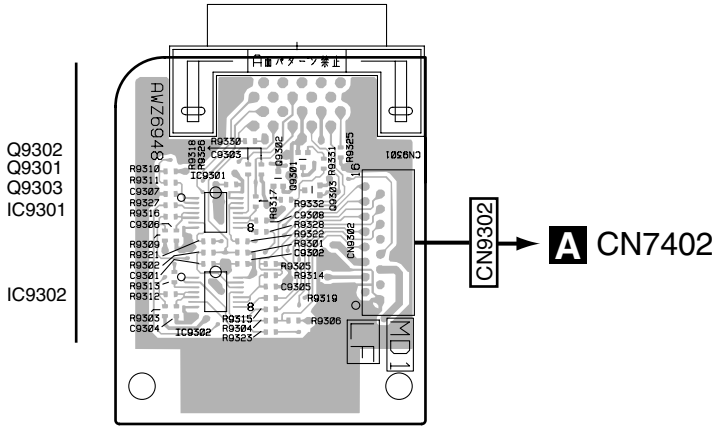
3. The parts mounted on this PCB include all necessary parts fo several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.



4.1 SW and MDR ASSYS

SIDE A

E MDR ASSY



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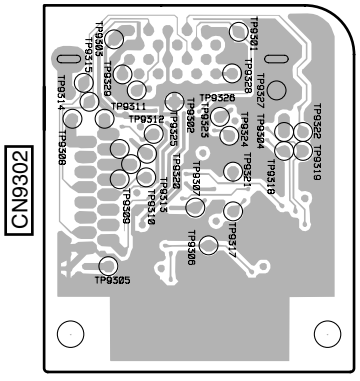
SIDE B

E MDR ASSY



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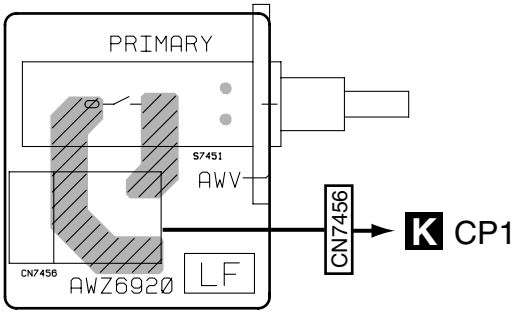
J SW ASSY



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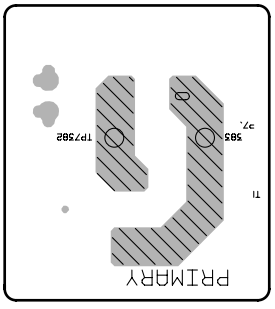
J SW ASSY



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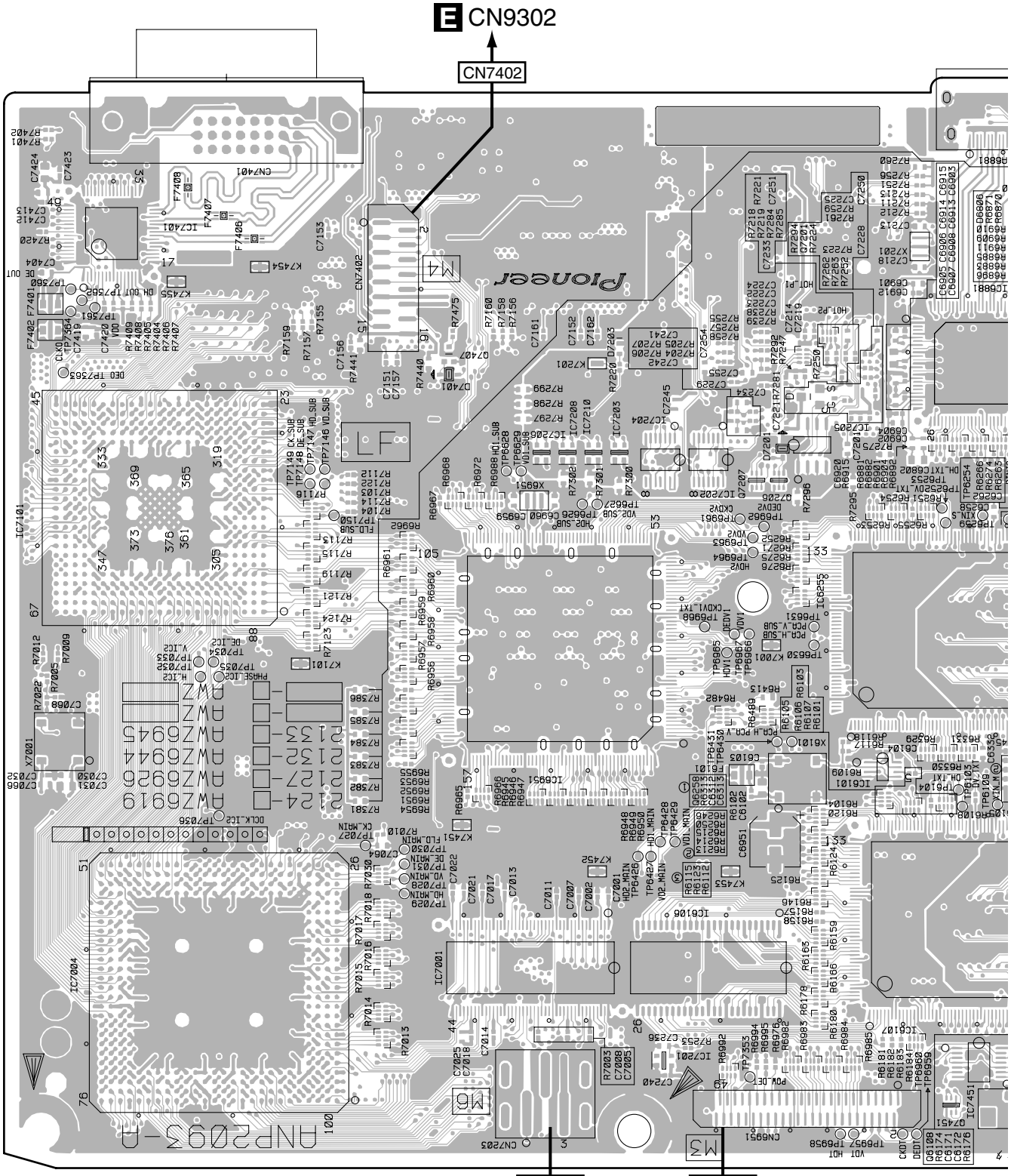
E **J**

E **J**

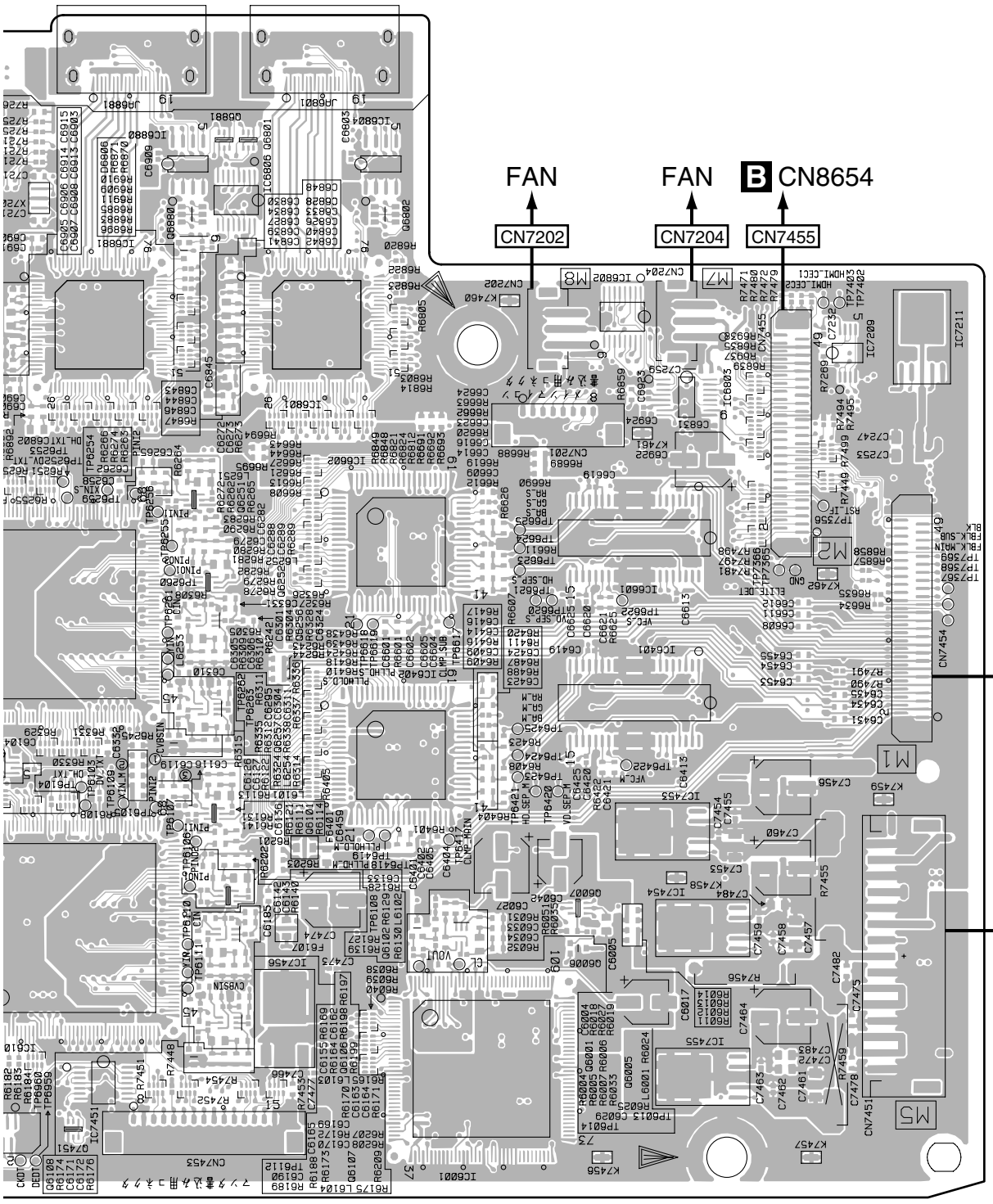
4.2 MR MAIN BOARD ASSY

SIDE A

A MR MAIN BOARD ASSY



SIDE A



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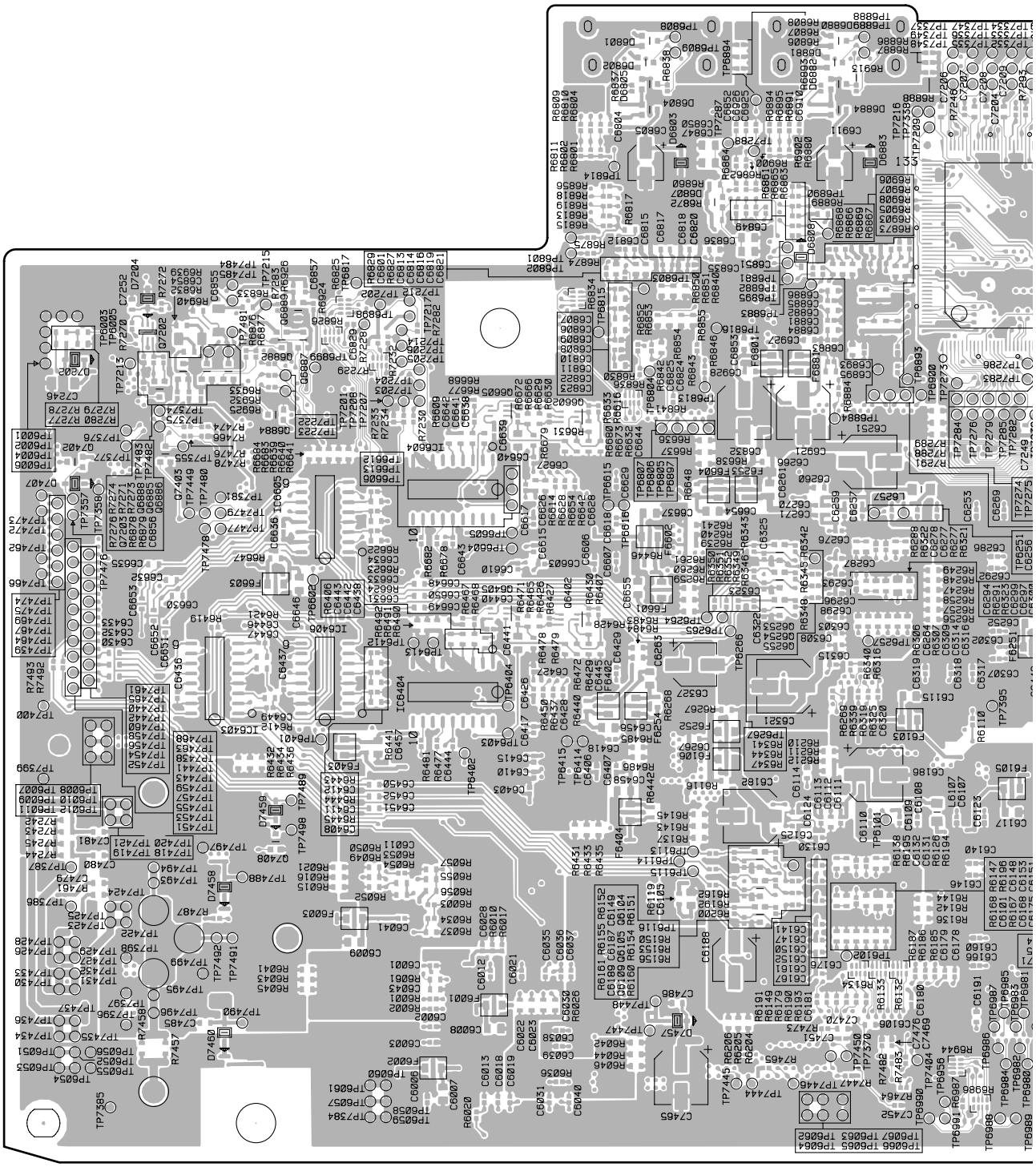
Q6108 Q7451 Q6880 Q6251 IC7458 Q6106 IC6001 Q6001 Q6005 IC7455 IC7209 IC7211
C6107 IC7451 IC6880 Q6252 Q6101 Q6107 Q6006 IC6601 IC7454 IC6803
IC6881 Q6881 Q6257 IC6602 Q6102 Q6007 IC6401 IC7453
IC6801 Q6256 Q6802 IC6402 IC6802
Q6801 Q6806 IC6804

A

SIDE B

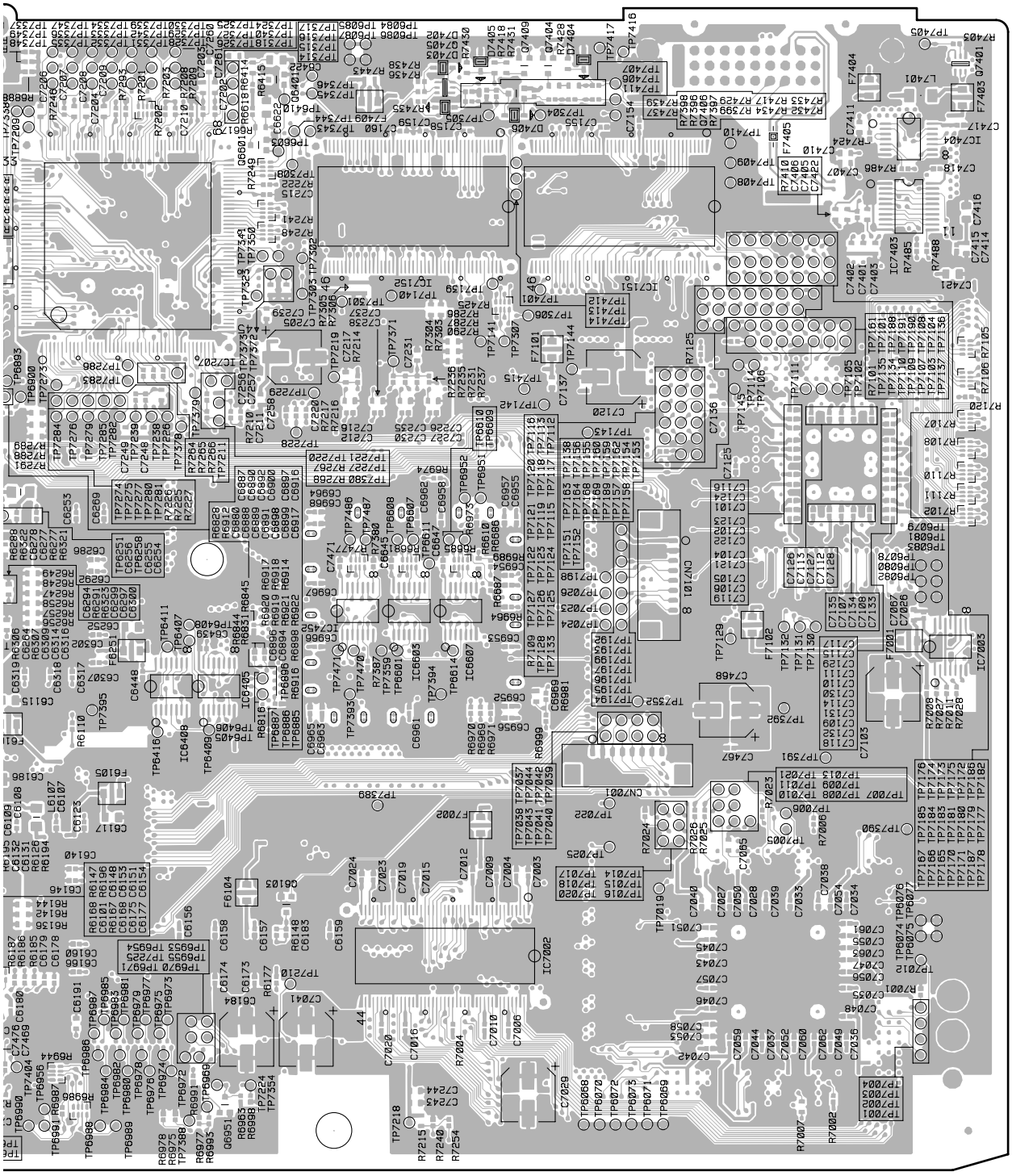
A MR MAIN BOARD ASSY



Q7402 Q6886 Q7408 IC6406 IC6404 Q6405 Q6402 Q6109 Q6255
Q7203 Q7202 IC6403 Q6884 Q6887 IC6604 Q6605 Q6602 Q6105 Q6254
Q7403 Q6889 IC6605 Q6104 Q6253
Q6882

A

SIDE B



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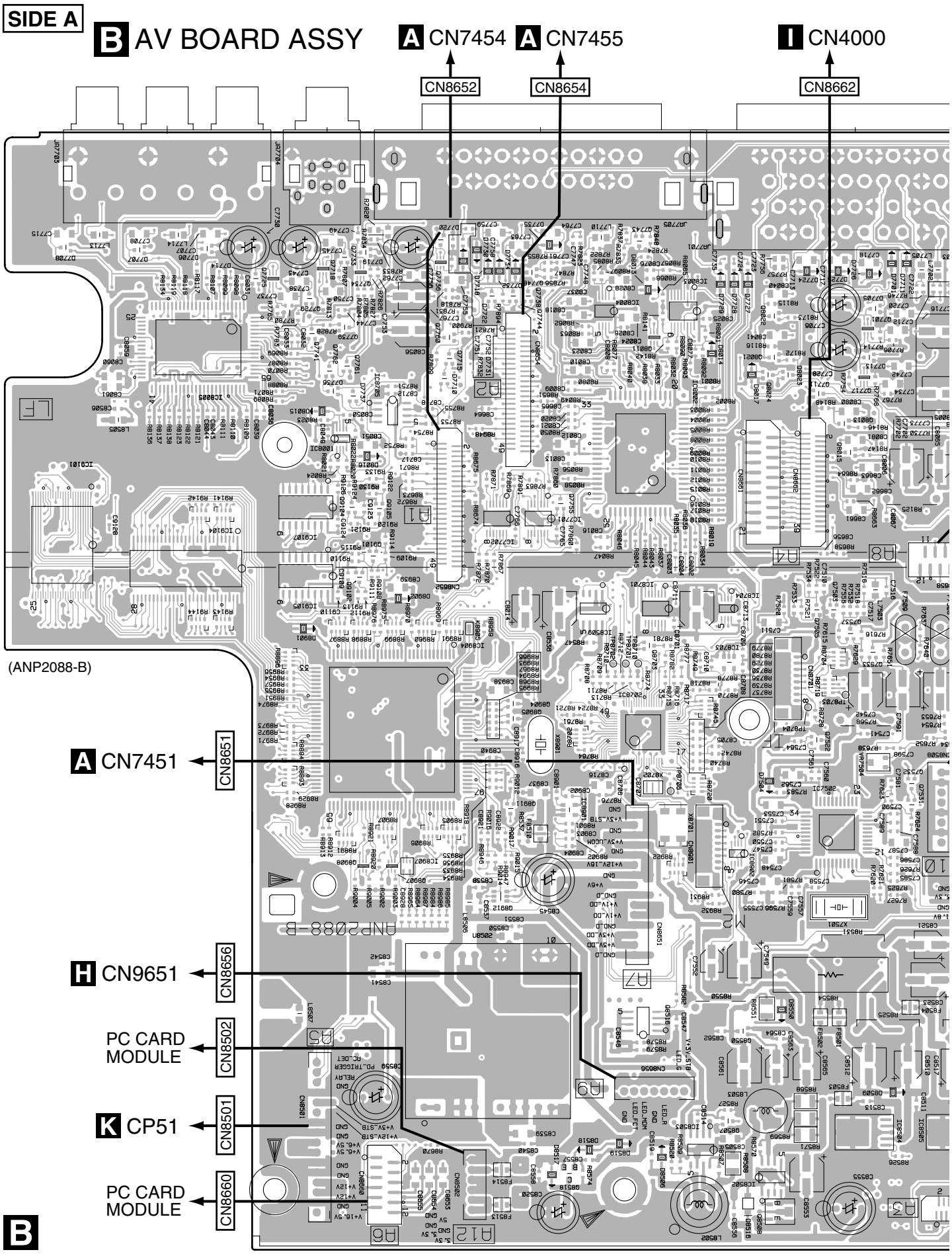
IC6408 Q6103 IC6603 IC6607 IC7002 IC7151 Q7406 IC7403 IC7003
IC6405 IC7452 IC7152 IC7404
IC7207 Q6601 Q6401 Q7405 Q7409 Q7404 Q7401

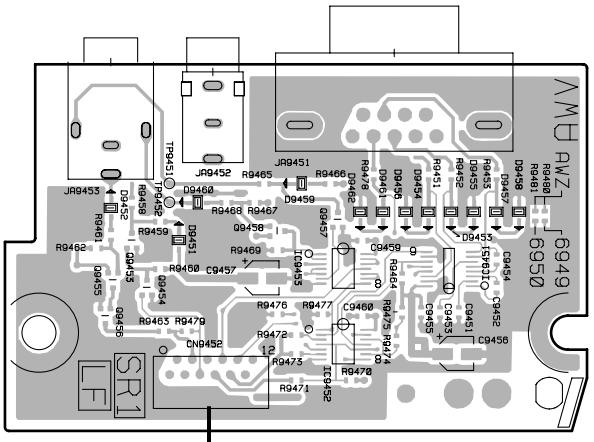
4.3 AV BOARD and SR ASSY



SIDE A

4000

F SR ASSY



Q9456 Q9453 Q9457
Q9455 Q9454 IC9453 IC9452 IC9451

CN8658

Q7745 Q7743
Q7740 Q7733
Q7728 Q7718 Q7748
Q7725 IC8003 Q7736
Q7734 Q7720
Q7721 Q7738
Q7703 IC8004 Q7729
Q7722 Q7701 Q7744
Q8022 Q7704 Q7760 Q7739
Q7758 Q7710 Q8011
Q7706 Q7741 Q7715 Q7762
Q8021
Q7761 Q8023
Q7711 IC8705
Q7759 IC8002 IC8005
Q8024 Q7717
Q8007 Q8013
Q8019 IC8007
IC8001 Q8015
IC9101
Q7755
Q9105 Q9104
Q8028 IC7701 IC8006
IC9104
IC7702 IC9107
Q9101
Q7516 Q7511
Q7517 IC8701 Q7503
IC8704 Q9102
IC9105
Q7505 IC8509
IC8703 IC8904
Q8703
Q7509 Q7518
IC8702
Q8904
Q8905

CN8508

I CN6002

Q7522 Q7534
Q7501 IC7501
Q7532
Q7519 IC7502
Q7531
Q8911 IC8901
Q7520
Q7512 Q7513
IC8907
IC8902 Q8908
Q8907
Q8912

L7506
L7504
L7521
VR7502
L8504
VR7503

CN8509

I CN6001

IC8506
Q8516
Q8550
IC8503
IC8507 IC8505 Q8507
IC8508 IC8504
IC8502
Q8518
Q8508

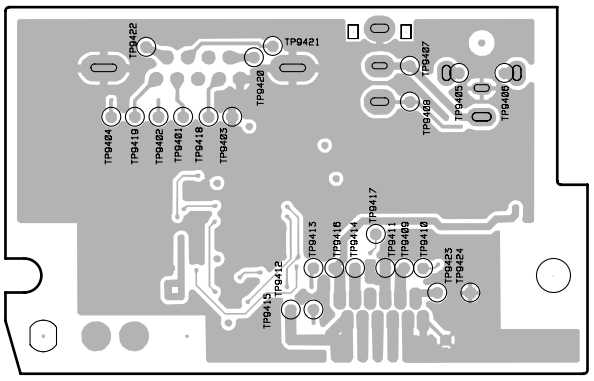
CN8653

G CN9502

B F

SIDE B

F SR ASSY



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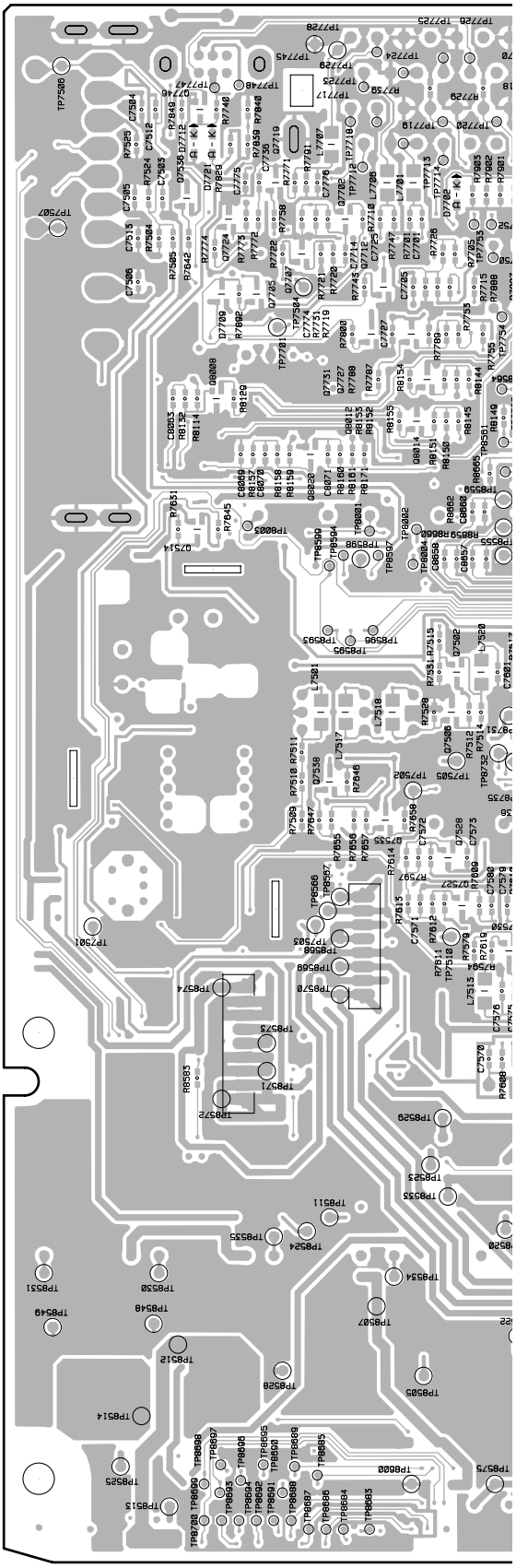
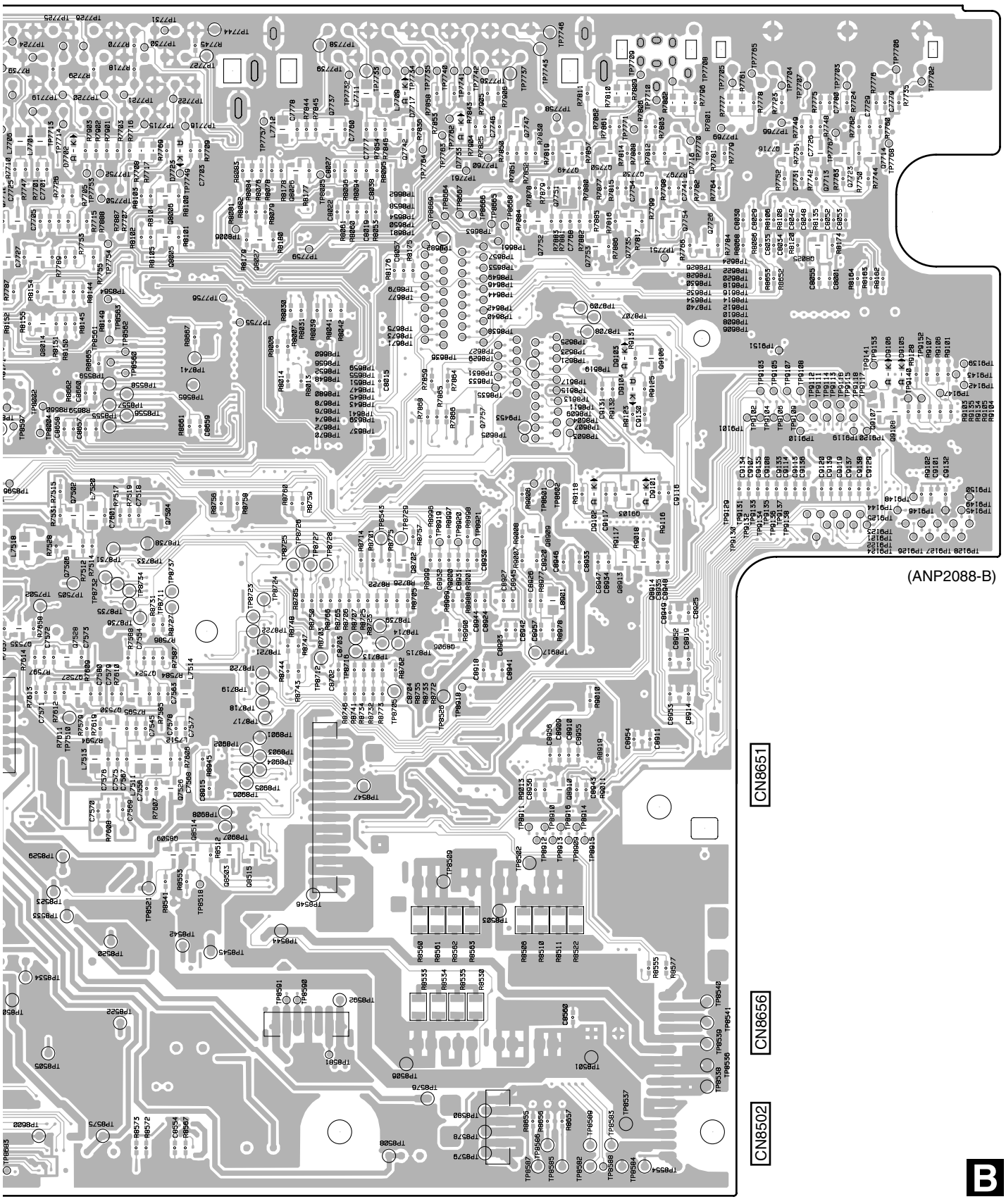
B AV BOARD ASSY



Q7746
Q7737 Q7719 Q7747 Q7742
Q7716 Q7702 Q7714
Q7750 Q7749
Q8026 Q7730 Q7723
Q7713 Q7724
Q7712 Q7751
Q8006 Q7707
Q7705 Q7726 Q7754
Q7752 Q7735
Q7753 Q8025 Q8005
Q8027
Q7727 Q8008
Q7731
Q8012
Q8014
Q9106
Q8020
Q7757
Q7514 Q9107
Q9108
Q7502
Q7504 Q9103
Q8909
Q8702 Q7506
Q8913
Q8914 Q7538
Q7535 Q7528
Q8906
Q7524 Q7527
Q7530
Q8910 Q7526
Q8514 Q8509
Q8515
Q8503

B F

SIDE B



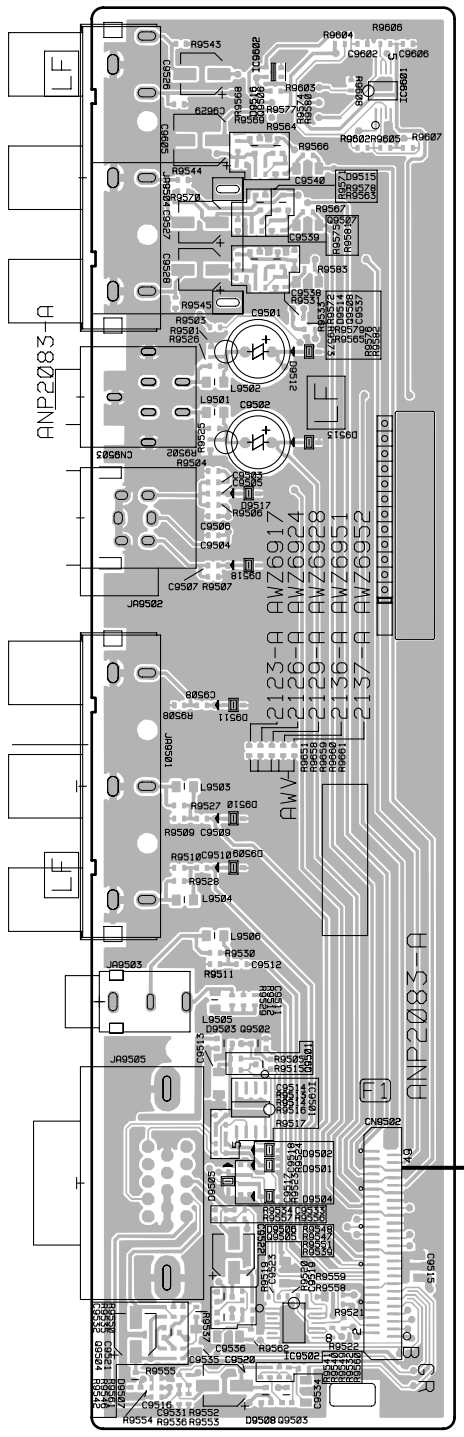
(ANP2088-B)

4.4 FRONT and LED ASSY

SIDE A

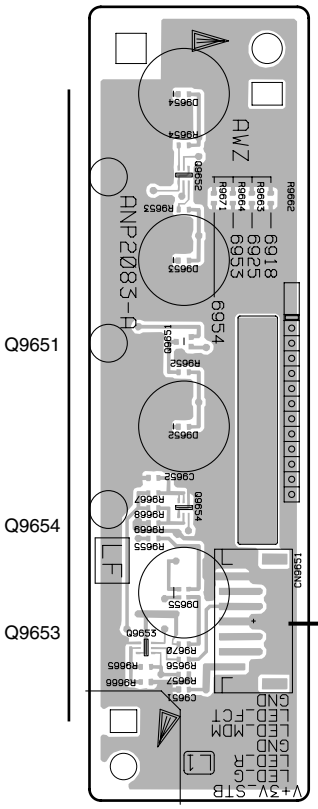
SIDE A

G FRONT ASSY



(ANP2083-A)

H LED ASSY



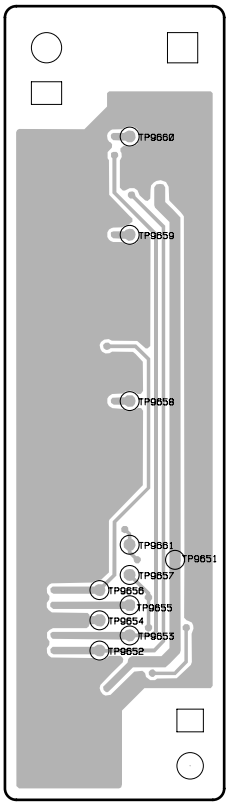
(ANP2083-A)

G H

G H

SIDE B

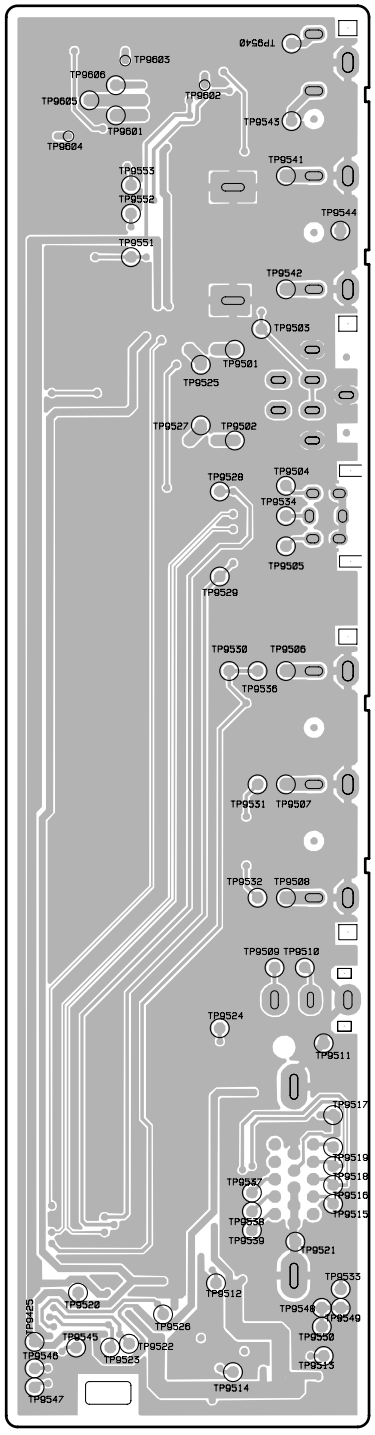
H LED ASSY



(ANP2083-A)

SIDE B

G FRONT ASSY



(ANP2083-A)

A B C D E F

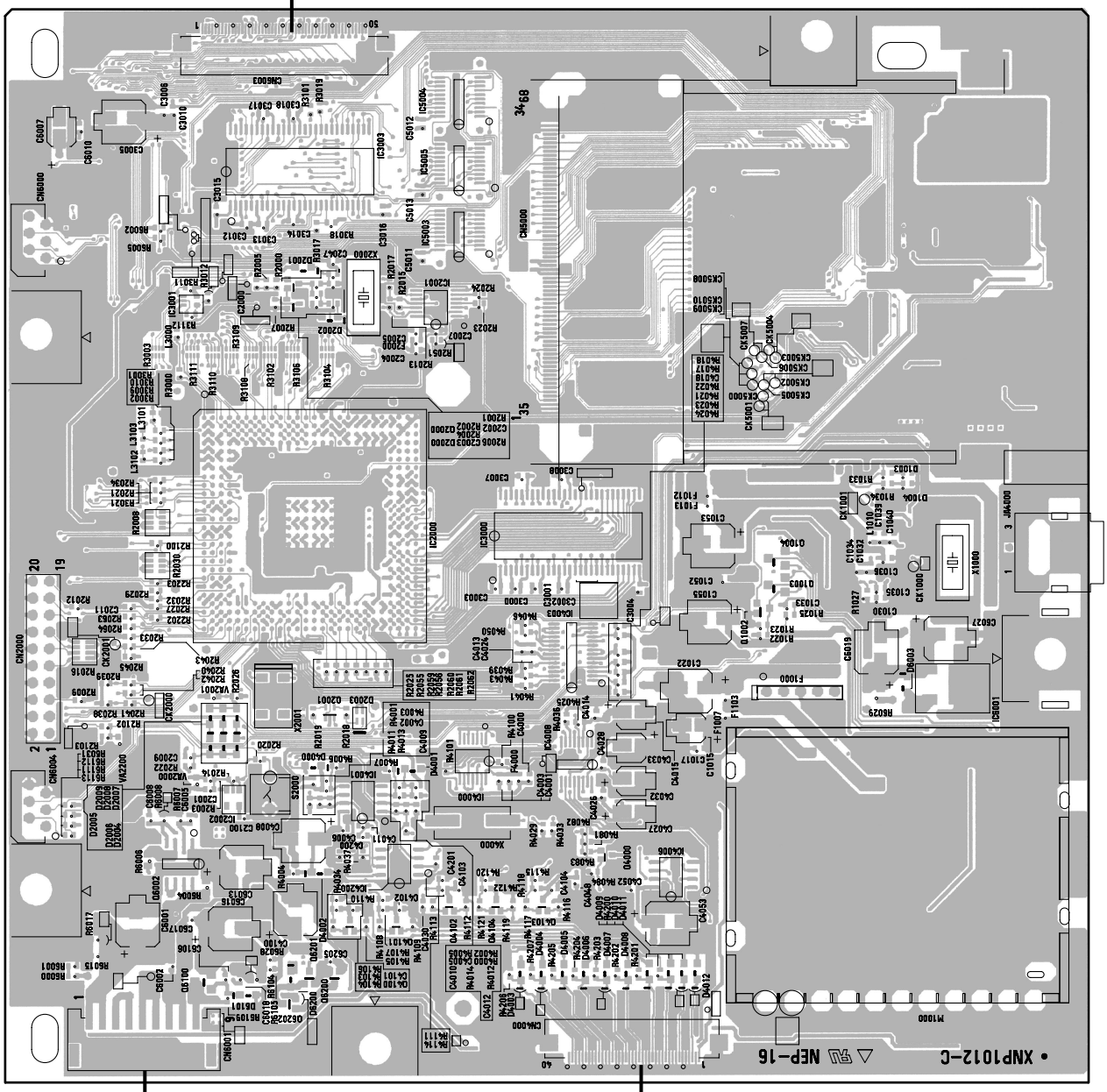
G H

G H

4.5 TUNER BOARD ASSY

SIDE A **SIDE A**

TUNER BOARD ASSY

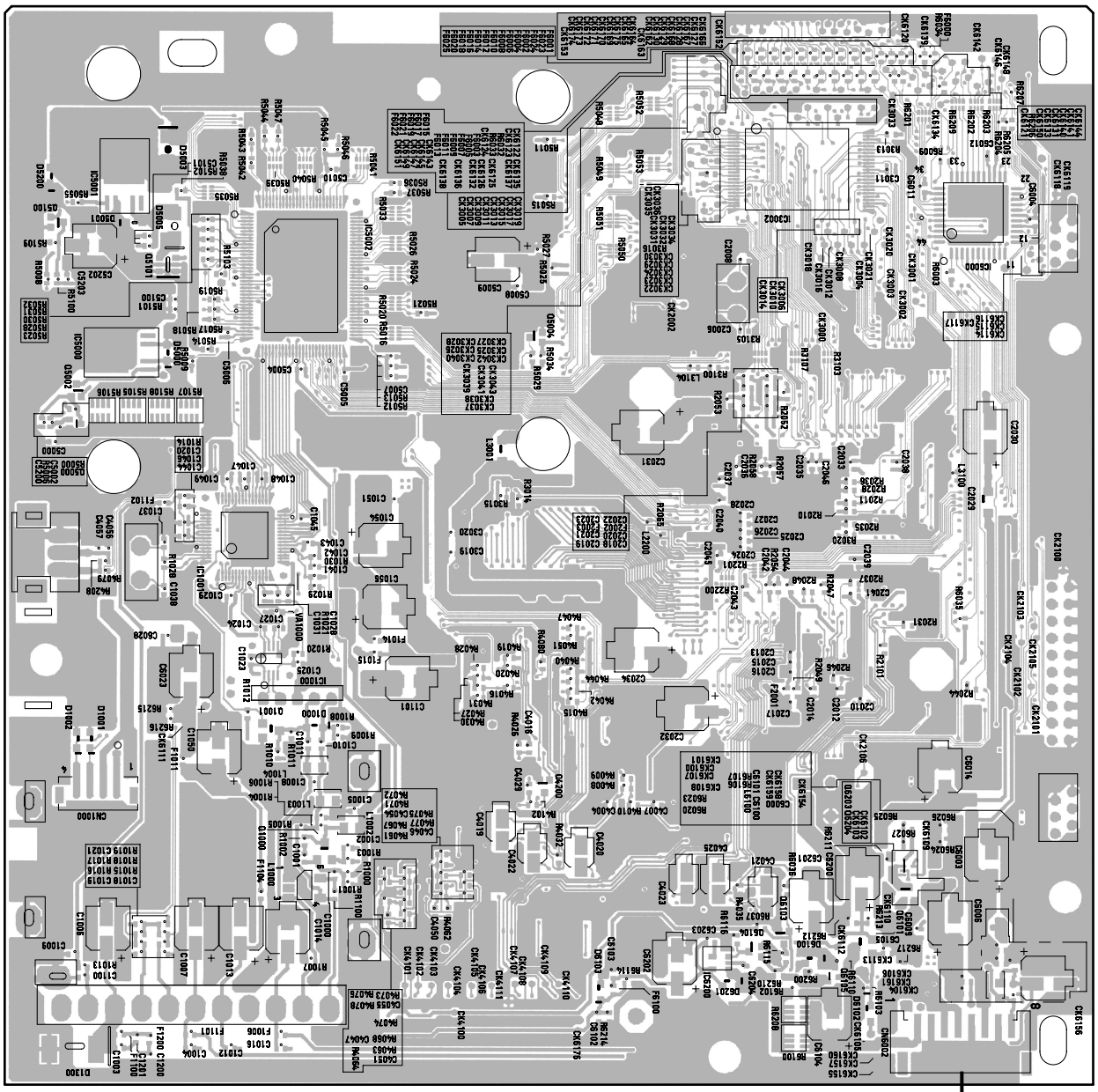


Q6002 IC2002 Q6202 Q6200 IC4200 Q4101 Q4102 IC4000 Q4103 IC4006 Q1002 Q1003 IC6001
IC3001 Q2001 Q6201 IC3003 IC5003 IC3000 IC4003 Q4000 Q1004
Q6100 Q2001 Q4100 IC2001 Q2000 IC4008
IC4001 IC2000 IC5004 IC5005

SIDE B

SIDE B

TUNER BOARD ASSY



(XNP1012-C)

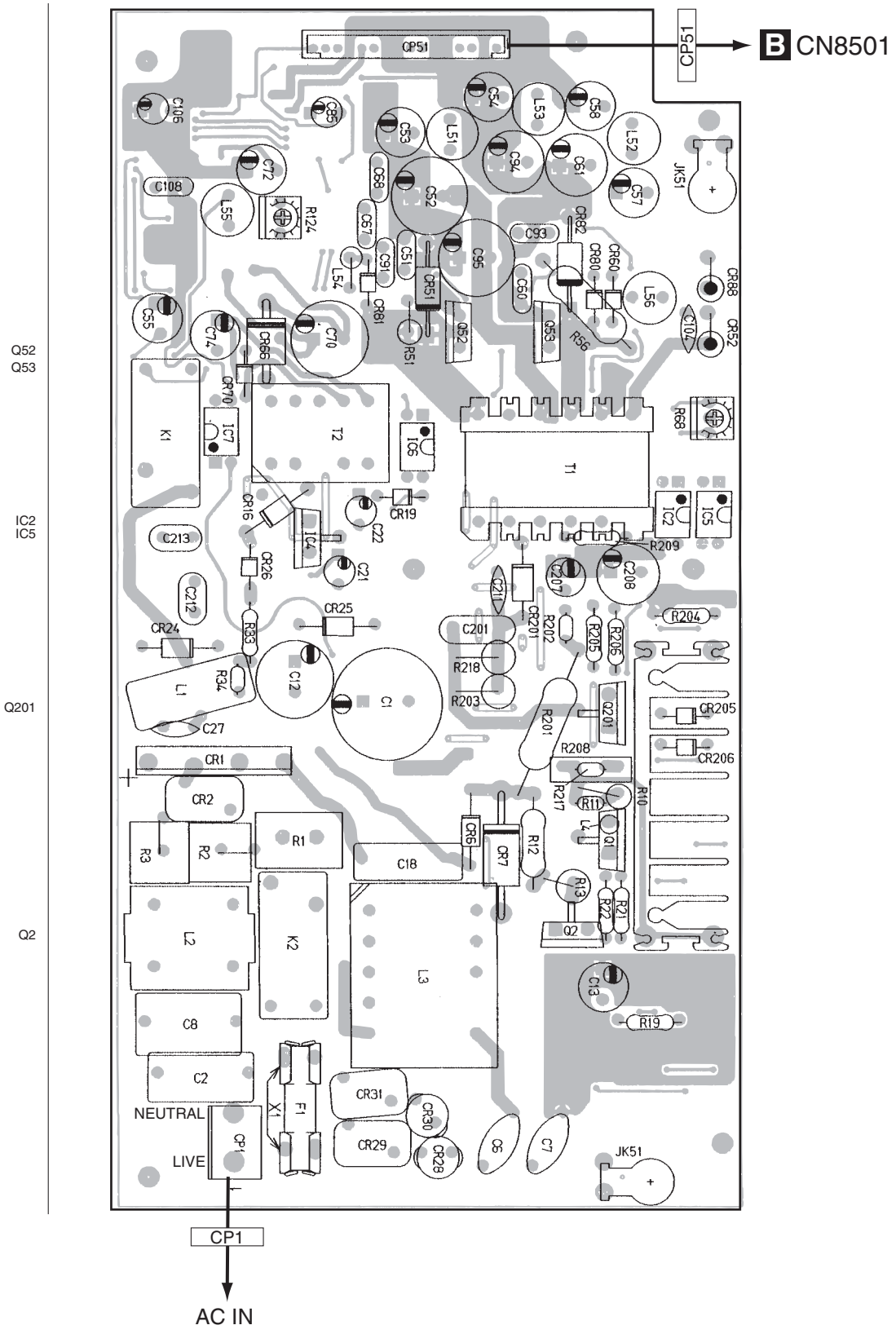
CN6002

B CN8508

Q5100 IC5001 Q5101 IC1001 Q1001 IC1000 IC5002 Q5000 IC5000 IC5002 Q1000 Q4200 Q5004 IC6200 Q6104 Q6103 Q6203 Q6204 IC6000 IC3002 Q6105 Q6101

4.6 POWER SUPPLY UNIT

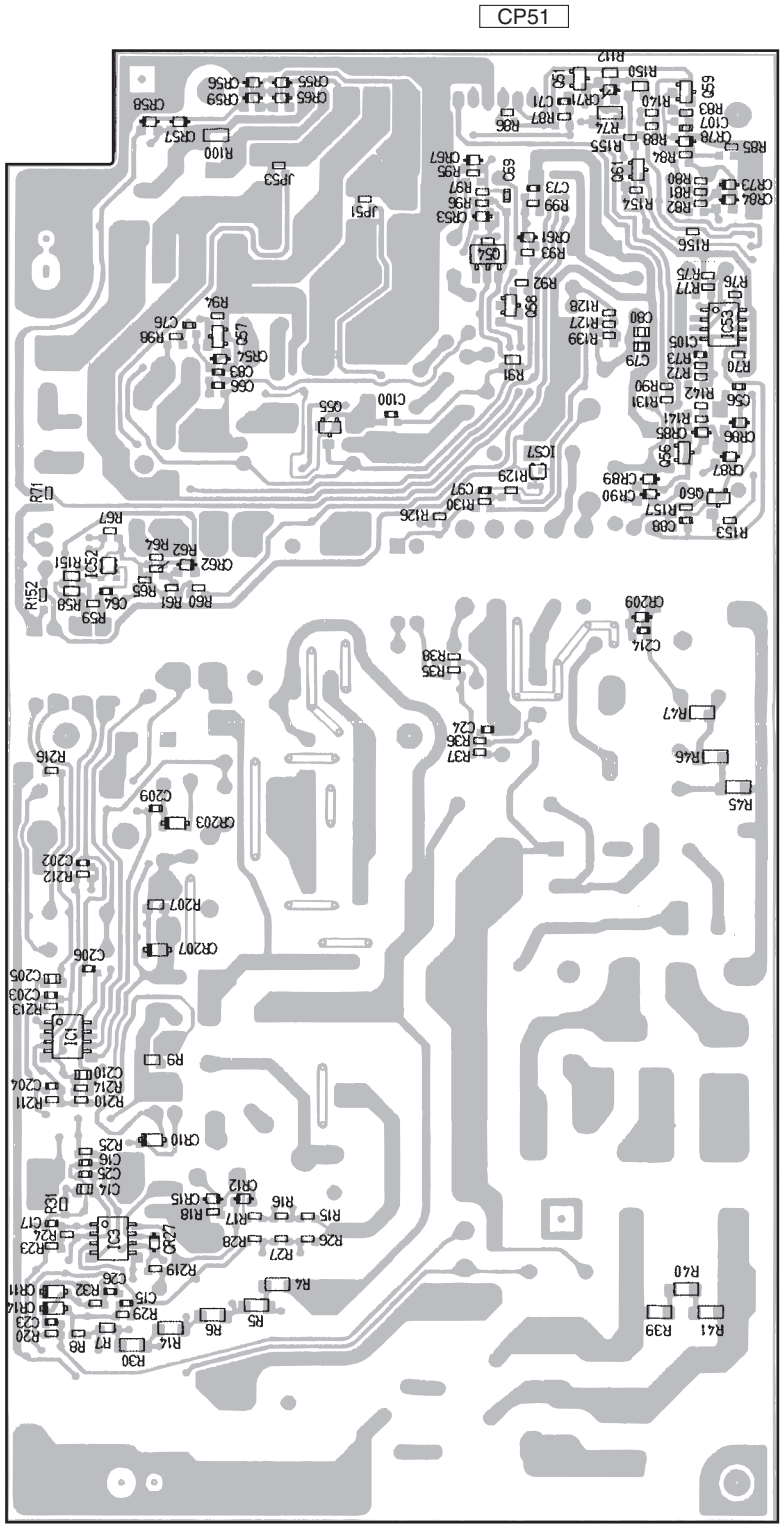
SIDE A **K** POWER SUPPLY UNIT **SIDE A**



SIDE B

K POWER SUPPLY UNIT

SIDE B



5. PCB PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare 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.*
● *When ordering resistors, first convert resistance values into code form as shown in the following examples.*
Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 x 10[1] → 561 ..... RD1/4PU 5 6 1 J
47k Ω → 47 x 10[3] → 473 ..... RD1/4PU 4 7 3 J
0.5 Ω → R50 ..... RN2H R 5 0 K
1 Ω → 1R0 ..... RS1P 1 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 x 10[1] → 5621 ..... RN1/4PC 5 6 2 1 F

• LIST OF ASSEMBLIES

Mark	Symbol and Description	PDP-R05E/ WYVI	PDP-R05E/ WYVIXK	PRO-R05XE/ WYVIXK	PDP-R05FE/ WYVI	PDP-R05FE/ WYVIXK
NSP	1..MR AV BOARD ASSY	AWV2134	AWV2134	AWV2168	AWV2135	AWV2135
	2..AV BOARD ASSY	AWZ6946	AWZ6946	AWZ6986	AWZ6947	AWZ6947
	2..MDR ASSY	AWZ6948	AWZ6948	AWZ6948	AWZ6948	AWZ6948
	2..SR ASSY	AWZ6949	AWZ6949	AWZ6949	AWZ6950	AWZ6950
NSP	1..MR FUKUGOU BOARD ASSY	AWV2136	AWV2136	AWV2136	AWV2137	AWV2137
	2..FRONT ASSY	AWZ6951	AWZ6951	AWZ6951	AWZ6952	AWZ6952
	2..LED ASSY	AWZ6953	AWZ6953	AWZ6953	AWZ6954	AWZ6954
NSP	1..MR MAIN BOARD ASSY	AWV2132	AWV2132	AWV2167	AWV2133	AWV2133
	2..MAIN BOARD ASSY	AWZ6944	AWZ6944	AWZ6990	AWZ6945	AWZ6945
	2..SW ASSY	AWZ6920	AWZ6920	AWZ6920	AWZ6920	AWZ6920
	1..TUNER BOARD ASSY	Not used	Not used	AWE1301	Not used	Not used
	1..PC CARD MODULE	AXY1073	AXY1073	AXY1073	Not used	Not used
⚠	1..POWER SUPPLY UNIT	AXY1091	AXY1091	AXY1091	AXY1091	AXY1091

• PCB PARTS LIST

A MR MAIN BOARD ASSY (AWZ6944/AWZ6990)

[GCR BLOCK]

RESISTORS

Mark No.	Description	Part No.
R6011-R6016,R6021,R6041,R6043		RS1/16S0R0J
R6045		RS1/16S0R0J

[MICHEL MAIN BLOCK]

SEMICONDUCTORS

Mark No.	Description	Part No.
IC6107		PD0278A
IC6101		TC7W126FU
Q6108		2SA1586
Q6101,Q6102		HN1A01FU
Q6106,Q6107		HN1B04FU

COILS AND FILTERS

Mark No.	Description	Part No.
F6101,F6103,F6105-F6107	EMI FILTER	CCG1162
L6107		LCTAW220J2520
L6101-L6104		LCYC6R8K2125

CAPACITORS

Mark No.	Description	Part No.
C6102 (10/6.3)		ACG7046
C6126,C6142,C6163,C6164		CCSRCH330J50
C6171,C6172		CCSRCH330J50
C6127,C6143		CCSRCH680J50
C6182,C6186		CEHVKW101M6R3
C6188		CEHVKW470M6R3
C6151		CKSQYB225K10
C6112,C6114		CKSRYB102K50
C6119,C6136,C6153,C6154		CKSRYB104K16
C6168,C6169,C6177,C6185		CKSRYB104K16
C6101,C6155,C6175,C6190		CKSRYB105K6R3
C6103,C6104,C6107-C6111,C6113		CKSSYF104Z16
C6116,C6123-C6125,C6130-C6133		CKSSYF104Z16
C6140,C6141,C6146-C6148,C6150		CKSSYF104Z16
C6152,C6160-C6162,C6165-C6167		CKSSYF104Z16
C6170,C6176,C6178-C6181		CKSSYF104Z16

RESISTORS

Mark No.	Description	Part No.
R6101,R6104-R6106,R6120		RAB4CQ100J
R6124,R6125		RAB4CQ100J

Mark No.	Description	Part No.
	R6136,R6137,R6142-R6145	RS1/16S0R0J
	R6194-R6196	RS1/16S1000F
	R6115,R6131	RS1/16S100J
	R6197,R6207	RS1/16S103J
	R6147	RS1/16S1301F
	R6198,R6208	RS1/16S183J
	R6113,R6129	RS1/16S221J
	R6126,R6138	RS1/16S2701F
	R6112,R6123,R6128,R6141,R6165	RS1/16S271J
	R6175	RS1/16S271J
	R6170,R6171,R6174,R6176	RS1/16S331J
	R6169,R6172,R6189	RS1/16S471J
	R6122,R6140	RS1/16S473J
	R6167,R6168	RS1/16S8201F
	Other Resistors	RS1/16SS###J
OTHERS		
	X6101 CRYSTAL OSCILLATOR (27MHz)	ASS1175
SEMICONDUCTORS		
	Q6104,Q6105,Q6109,Q6253-Q6255	2SA1586
CAPACITORS		
	C6266,C6267	CCSRCH470J50
	C6149,C6187,C6189,C6322,C6323	CKSSYF104Z16
	C6325	CKSSYF104Z16
RESISTORS		
	R6132-R6134	RAB4CQ103J
	Other Resistors	RS1/16SS###J

[MICHEL SUB BLOCK]

SEMICONDUCTORS		
	IC6255	PD0278A
	Q6258	2SA1586
	Q6251,Q6252	HN1A01FU
	Q6256,Q6257	HN1B04FU
COILS AND FILTERS		
	F6251-F6254 EMI FILTER	CCG1162
	L6257	LCTAW220J2520
	L6251-L6254	LCYC6R8K2125
CAPACITORS		
	C6272,C6288,C6305,C6306	CCSRCH330J50
	C6312,C6313	CCSRCH330J50
	C6273,C6289	CCSRCH680J50
	C6251,C6321	CEHVKW101M6R3
	C6327	CEHVKW470M6R3
	C6297	CKSQYB225K10
	C6258,C6260	CKSRYB102K50
	C6265,C6282,C6299,C6300	CKSRYB104K16
	C6309,C6310,C6316,C6324	CKSRYB104K16
	C6264,C6295,C6301,C6314	CKSRYB105K6R3
	C6253-C6257,C6259,C6262	CKSSYF104Z16
	C6269-C6271,C6276-C6279	CKSSYF104Z16
	C6286,C6287,C6292-C6294,C6296	CKSSYF104Z16
	C6298,C6302-C6304,C6307,C6308	CKSSYF104Z16
	C6311,C6315,C6317-C6320,C6331	CKSSYF104Z16
RESISTORS		
	R6251-R6254,R6271,R6275,R6276	RAB4CQ100J

Mark No.	Description	Part No.
	R6329-R6331	RAB4CQ103J
	R6256-R6261	RS1/16S0R0J
	R6321-R6323	RS1/16S1000F
	R6266,R6283	RS1/16S100J
	R6326,R6336	RS1/16S103J
	R6291	RS1/16S1301F
	R6327,R6337	RS1/16S183J
	R6264,R6281	RS1/16S221J
	R6277,R6288	RS1/16S2701F
	R6263,R6274,R6280,R6290,R6305	RS1/16S271J
	R6314	RS1/16S271J
	R6309,R6310,R6313,R6315	RS1/16S331J
	R6308,R6311,R6335	RS1/16S471J
	R6273,R6289	RS1/16S473J
	R6306,R6307	RS1/16S8201F
	Other Resistors	RS1/16SS###J

[AD MAIN BLOCK]

SEMICONDUCTORS		
	IC6402	AD80058
	IC6404	BA7078AF
	IC6401	SM5301BS
	IC6405,IC6408	TC74VHC126FT
	Q6405	HN1B04FU
	Q6401	RN1303
COILS AND FILTERS		
	F6401-F6404 EMI FILTER	CCG1162
CAPACITORS		
	C6422,C6441 (10/6.3)	ACG7046
	C6445	CCSRCH151J50
	C6438	CKSRYB103K50
	C6404,C6424	CKSRYB104K16
	C6408,C6411,C6412,C6421,C6431	CKSRYB105K6R3
	C6434,C6435	CKSRYB105K6R3
	C6409,C6414,C6423	CKSRYB473K16
	C6443	CKSRYB474K10
	C6442	CKSRYB562K50
	C6402	CKSRYB822K50
	C6401	CKSRYB823K16
	C6403,C6405-C6407,C6410,C6413	CKSSYF104Z16
	C6415-C6420,C6425-C6429	CKSSYF104Z16
	C6439,C6440,C6444,C6448	CKSSYF104Z16
RESISTORS		
	R6482,R6489	RAB4CQ101J
	R6405,R6410,R6418,R6424	RAB4CQ330J
	R6438,R6439	RAB4CQ330J
	R6420,R6431-R6436	RS1/16S0R0J
	R6404,R6408,R6409,R6416,R6417	RS1/16S1000F
	R6423	RS1/16S1000F
	R6406	RS1/16S104J
	R6422	RS1/16S1101F
	R6478	RS1/16S153J
	R6472	RS1/16S221J
	R6479	RS1/16S222J
	R6414	RS1/16S224J
	R6401	RS1/16S2701F
	R6413	RS1/16S472J
	R6465	RS1/16S682J

Mark No.	Description	Part No.
	Other Resistors	RS1/16SS###J
	SEMICONDUCTORS	
	IC6403,IC6406,IC6605	MM1389XFBE
	CAPACITORS	
	C6430,C6432,C6433,C6446,C6447	CKSRYB105K6R3
	C6449-C6455,C6630,C6632,C6635	CKSRYB105K6R3
	C6648-C6650	CKSRYB105K6R3
	C6436,C6437,C6636	CKSSYF104Z16
	RESISTORS	
	Other Resistors	RS1/16SS###J
	[AD SUB BLOCK]	
	SEMICONDUCTORS	
	IC6602	AD80058
	IC6604	BA7078AF
	IC6601	SM5301BS
	IC6603,IC6607	TC74VHC126FT
	Q6605	HN1B04FU
	Q6601	RN1303
	COILS AND FILTERS	
	F6601-F6604 EMI FILTER	CCG1162
	CAPACITORS	
	C6622,C6640 (10/6.3)	ACG7046
	C6644	CCSRCH151J50
	C6638	CKSRYB103K50
	C6604,C6624	CKSRYB104K16
	C6608,C6611,C6612,C6621,C6631	CKSRYB105K6R3
	C6633,C6634	CKSRYB105K6R3
	C6609,C6614,C6623	CKSRYB473K16
	C6642	CKSRYB474K10
	C6641	CKSRYB562K50
	C6602	CKSRYB822K50
	C6601	CKSRYB823K16
	C6603,C6605-C6607,C6610,C6613	CKSSYF104Z16
	C6615-C6620,C6625-C6629,C6639	CKSSYF104Z16
	C6643,C6645,C6647	CKSSYF104Z16
	RESISTORS	
	R6681,R6685	RAB4CQ101J
	R6608,R6613,R6621,R6627	RAB4CQ330J
	R6643,R6644	RAB4CQ330J
	R6628,R6636-R6641	RS1/16S0R0J
	R6607,R6611,R6612,R6619,R6620	RS1/16S1000F
	R6626	RS1/16S1000F
	R6609	RS1/16S104J
	R6625	RS1/16S1101F
	R6679	RS1/16S153J
	R6673	RS1/16S221J
	R6680	RS1/16S222J
	R6617	RS1/16S224J
	R6601	RS1/16S2701F
	R6610	RS1/16S472J
	R6666	RS1/16S682J
	Other Resistors	RS1/16SS###J
	[HDMI RX BLOCK]	

Mark No.	Description	Part No.
	SEMICONDUCTORS	
	IC6880	BR24L02FJ-W
	IC6803	PCM1742KE
	IC6881	SII9993CTG100
	IC6806	TC74HC4538AFT
	Q6888,Q6889	2SA1586
	Q6885,Q6886	2SC4116
	Q6884,Q6887	RN1303
	Q6881	RN1902
	Q6882	RN2303
	Q6880	SM6K2
	D6880,D6881	1SS302
	D6808	1SS355
	D6806,D6807,D6884	DAN202U
	D6883	UDZS6R8(B)
	COILS AND FILTERS	
	F6881 EMI FILTER	CCG1162
	CAPACITORS	
	C6802,C6849,C6851 (10/6.3)	ACG7046
	C6880,C6882,C6884,C6886	CCSRCH101J50
	C6888,C6889,C6892,C6895,C6896	CCSRCH101J50
	C6899-C6902,C6905,C6906,C6915	CCSRCH101J50
	C6917	CCSRCH101J50
	C6927,C6928	CCSRCH221J50
	C6921,C6922	CEHVKW101M6R3
	C6911	CEHVKW220M6R3
	C6913	CKSRYB104K16
	C6920	CKSRYB473K16
	C6831,C6848,C6856,C6857,C6881	CKSSYF104Z16
	C6883,C6885,C6887,C6890,C6891	CKSSYF104Z16
	C6893,C6894,C6897,C6898	CKSSYF104Z16
	C6903,C6904,C6907-C6910,C6912	CKSSYF104Z16
	C6916,C6923-C6926	CKSSYF104Z16
	C6854,C6855 (10uF/16V)	DCH1165
	RESISTORS	
	R6881-R6883,R6885,R6892,R6896	RAB4CQ101J
	R6901,R6904	RAB4CQ101J
	R6859	RS1/16S0R0J
	R6939,R6940	RS1/16S104J
	R6832,R6833	RS1/16S222J
	R6889	RS1/16S3900F
	R6915	RS1/16S3901F
	R6872	RS1/16S473J
	Other Resistors	RS1/16SS###J
	OTHERS	
	JA6881 HDMI CONNECTOR	AKP1232
	CAPACITORS	
	C6853	CCSRCH470J50
	RESISTORS	
	R6826	RAB4CQ101J
	R6834,R6836,R6944,R6947-R6950	RAB4CQ103J
	R6835,R6839,R6937,R6938	RAB4CQ470J
	Other Resistors	RS1/16SS###J
	[ROZ BLOCK]	
	SEMICONDUCTORS	

Mark No.	Description	Part No.
IC6951		PD6435A
Q6951		RN1303
CAPACITORS		
C6959,C6960		CCSRCH150J50
C6951		CEHVKW101M6R3
C6952-C6954,C6956-C6958		CKSSYF104Z16
C6961,C6962,C6964-C6968		CKSSYF104Z16
RESISTORS		
R6951-R6953,R6956-R6962,R6966		RAB4CQ100J
R6968,R6972		RAB4CQ100J
R6945,R6946,R6988		RAB4CQ103J
Other Resistors		RS1/16SS###J
OTHERS		
X6951	CERAMIC RESONATOR	ASS1169
RESISTORS		
R6982-R6986,R6992		RAB4CQ101J
Other Resistors		RS1/16SS###J
OTHERS		
CN6951	50P CONNECTER	AKM1201
[CELIA BLOCK]		
SEMICONDUCTORS		
IC7001,IC7002		HY57V643220CT-7
IC7004		PE5362A
IC7003		TC74LCX125FT
COILS AND FILTERS		
F7001,F7002	EMI FILTER	CCG1162
CAPACITORS		
C7031 (10/6.3)		ACG7046
C7029,C7041		ACH1365
C7064		CCSRCH100D50
C7025,C7066,C7067		CCSRCH221J50
C7001-C7024,C7026-C7028		CKSSYF104Z16
C7032-C7040,C7042-C7063		CKSSYF104Z16
RESISTORS		
R7013-R7018,R7030		RAB4CQ220J
R7007		RS1/16S220J
Other Resistors		RS1/16SS###J
OTHERS		
X7001	CRYSTAL OSCILLATOR (85MHz)	ASS1174
[MIKE BLOCK]		
SEMICONDUCTORS		
IC7152		MBM29PL3200BE70PFV
IC7101		PD5855A
COILS AND FILTERS		
F7101,F7102		CCG1162
CAPACITORS		
C7103,C7120 (330uF/6.3V)		ACH1365
C7101,C7102,C7104-C7119		CKSSYF104Z16
C7121-C7135,C7152,C7158-C7162		CKSSYF104Z16
RESISTORS		

Mark No.	Description	Part No.
R7113,R7115,R7116,R7119,R7121		RAB4CQ101J
R7123,R7124		RAB4CQ101J
R7102,R7105-R7108,R7110,R7111		RAB4CQ330J
Other Resistors		RS1/16SS###J
SEMICONDUCTORS		
IC7151		MBM29PL3200BE70PFV
CAPACITORS		
C7151,C7153-C7157		CKSSYF104Z16
RESISTORS		
Other Resistors		RS1/16SS###J
[MAIN UCOM BLOCK]		
SEMICONDUCTORS		
IC7205		BR24L64F-W
IC7207		MB91F355APMTGE1
IC7201		MM1522XU
IC7209		NJM12904V
IC7211		PQ20WZ11
IC7210		PST3612UR
IC7203,IC7206		PST3628UR
IC7202		TC74VHC125FT
Q7203		2SA1586
Q7201		2SJ461A
Q7202		HN1C01FU
Q7206,Q7207		RN1902
D7201,D7202		1SS355
D7203		SML-311UT
D7204		UDZS2R7(B)
CAPACITORS		
C7244		CCSRCH100D50
C7231		CCSRCH102J50
C7243,C7245		CCSRCH221J50
C7241,C7242,C7248,C7249		CCSRCH470J50
C7213,C7218		CCSRCH7R0D50
C7205		CEHVKW101M6R3
C7201,C7217,C7236,C7239,C7252		CKSRYB103K50
C7226,C7237		CKSRYB104K16
C7216		CKSRYB472K50
C7209-C7212,C7214,C7215,C7219		CKSSYF104Z16
C7221-C7225,C7227-C7229		CKSSYF104Z16
C7232-C7234,C7238,C7240		CKSSYF104Z16
C7246,C7247,C7253 (10uF/16V)		DCH1165
RESISTORS		
R7221,R7229,R7241,R7248-R7250		RAB4CQ101J
R7201		RAB4CQ472J
R7244,R7245,R7275,R7286,R7287		RS1/16S0R0J
R7290,R7295-R7306		RS1/16S0R0J
R7269		RS1/16S101J
R7278		RS1/16S2201F
R7215		RS1/16S223J
R7279		RS1/16S4700F
R7227,R7260		RS1/16S473J
R7224		RS1/16S682J
R7280		RS1/16S7500F
R7277		RS1/16S8201F
Other Resistors		RS1/16SS###J

Mark	No.	Description	Part No.
		OTHERS	
	CN7203	3P CONNECTOR	AKM1213
	CN7201	PLUG 8-P	AKM1225
A	CN7202	3P PH CONNECTOR	AKM1274
	X7201	CERAMIC RESONATOR	ASS1170
		SEMICONDUCTORS	
	IC7204		TC74VHC125FT
		CAPACITORS	
	C7258-C7261		CCSRCH470J50
	C7256,C7257		CKSRYB103K50
	C7220		CKSSYF104Z16
B		**RESISTORS**	
	Other Resistors		RS1/16SS###J
		OTHERS	
	CN7204	3P PH CONNECTOR	AKM1274
	[MR IF BLOCK] [REGLATORBLOCK]		
		SEMICONDUCTORS	
	IC7453		BA33BC0WFP
	IC7454		BA50BC0WFP
	IC7456		NCP1117DT15
	IC7401		SII170BCLG64
C	IC7404		TC74VCX08FT
	IC7403		TC74VCX574FT
	IC7451		TC74VHC08FT
	Q7406		2SA1586
	Q7405		HN1C01FU
	Q7403,Q7407,Q7408		RN1303
	Q7451		RN1901
	Q7401		RN1902
	Q7402,Q7404,Q7409		RN2303
	D7401-D7407,D7457-D7459		1SS355
D		**COILS AND FILTERS**	
	F7405-F7408	EMI FILTER	ATF1209
	L7401 (3.3uH)		ATH1162
	F7401-F7404	EMI FILTER	CCG1162
		CAPACITORS	
	C7416,C7421,C7424,C7484 (10/6.3)		ACG7046
	C7474 (330uF/6.3V)		ACH1365
	C7401,C7402		CCSRCH100D50
	C7475,C7477-C7482		CCSRCH221J50
	C7403,C7404,C7406,C7407		CCSRCH820J50
E	C7410,C7411,C7413,C7414,C7419		CCSRCH820J50
	C7456,C7460,C7465		CEHVKW101M6R3
	C7405,C7412,C7415,C7417,C7418		CKSSYF104Z16
	C7420,C7423,C7451,C7452		CKSSYF104Z16
	C7454,C7455,C7458,C7459,C7466		CKSSYF104Z16
	C7469,C7473,C7476		CKSSYF104Z16
	C7453,C7457 (10uF/16V)		DCH1165
		RESISTORS	
	R7425,R7449,R7451,R7452,R7454		RAB4CQ101J
	R7481,R7497-R7499		RAB4CQ101J
	R7453		RAB4CQ103J
F	R7440,R7441,R7443		RS1/16S0R0J
	R7417,R7418,R7429,R7431		RS1/16S111J
	R7428,R7430		RS1/16S272J

Mark	No.	Description	Part No.
	R7410		RS1/16S5100F
	R7456		RS1LMF1R5J
	R7455		RS2LMF4R7J
	Other Resistors		RS1/16SS###J
		OTHERS	
	CN7454,CN7455	50P CONNECTER	AKM1201
	CN7453	PLUG 15-P	AKM1232
	CN7402	16P FFC CONNECTOR	AKM1234
	CN7451	PH 15P CONNECTOR	AKM1301
	CN7401	DVI SOCKET (24P)	AKP1250
		SEMICONDUCTORS	
	IC7452		TC74VHC126FT
		CAPACITORS	
	C7137,C7485,C7486		CCSRCH470J50
	C7068,C7471		CKSSYF104Z16
		RESISTORS	
	R7477		RAB4CQ101J
	R7383 (AWZ6944 only)		RS1/16S222J
	R7385 (AWZ6990 only)		RS1/16S222J
	Other Resistors		RS1/16SS###J

B AV BOARD ASSY (AWZ6946/AWZ6986)

	[TUNER BLOCK]		
		SEMICONDUCTORS	
	IC7502		MSP3417G
	IC7501		TDA9818TS
	Q7503,Q7504,Q7506,Q7513,Q7522		2SA1586
	Q7524,Q7527,Q7528,Q7537		2SA1586
	Q7511,Q7517		2SC4082
	Q7501,Q7502,Q7505,Q7509,Q7512		2SC4116
	Q7514,Q7518-Q7520,Q7526,Q7530		2SC4116
	Q7533-Q7536,Q7538		2SC4116
	Q7516		2SC4213
	Q7532		DTA124EUA
	Q7531		DTC124EUA
	D7504		1SS355
	D7502,D7503		1SS356
	D7501		UDZS33(B)
		COILS AND FILTERS	
	L7501		LCTAW100J2520
	L7512,L7513		LCTAW150J2520
	L7520		LCTAW270J2520
	L7514		LCTAW4R7J2520
	L7511		LCTAW8R2J2520
	L7519		LCTAWR22J2520
	L7516		LCTAWR27J2520
	L7505,L7507		LCTAWR68J2520
	F7511,F7512		VTF1080
	F7506	SAW FILTER	VTF1177
	F7503	SAW FILTER	VTF1179
	F7504	IF TRAP FILTER	VTF1180
	F7505	IF TRAP FILTER	VTF1181
	F7501	TRAP FILTER	VTF1183
	L7504	VCO COIL	VTL1164
		CAPACITORS	
	C7507 (220uF/10V)		ACH1368
	C7552 (3.3uF/50V)		ACH1385

Mark	No.	Description	Part No.
		C7509,C7525,C7549,C7591,C7599 (100uF/16V)	ACH1394
		C7564,C7573	CCSRCH102J50
		C7515	CCSRCH120J50
		C7568	CCSRCH121J50
		C7578	CCSRCH181J50
		C7601	CCSRCH220J50
		C7567	CCSRCH470J50
		C7556,C7558	CCSRCH560J50
		C7569	CCSRCH5R0C50
		C7576	CCSRCH680J50
		C7602	CCSRCH820J50
		C7570	CCSRCJ3R0C50
		C7501	CEHVKW100M50
		C7596	CEHVKW330M10
		C7542	CEHVKW470M16
		C7537,C7539	CKSQYB225K10
		C7502,C7520,C7522,C7523	CKSRYB102K50
		C7534,C7535,C7579,C7580	CKSRYB102K50
		C7514,C7524,C7528,C7536,C7545	CKSRYB103K50
		C7554,C7572	CKSRYB103K50
		C7541	CKSRYB104K16
		C7503	CKSRYB105K10
		C7559,C7561,C7588	CKSRYB152K50
		C7590	CKSRYB221K50
		C7504,C7505,C7526	CKSRYB222K50
		C7540	CKSRYB224K10
		C7518	CKSRYB332K50
		C7557,C7560,C7589	CKSRYB471K50
		C7563,C7571	CKSRYB472K50
		C7575	CKSRYF104Z16
		C7506,C7510,C7513,C7527,C7531	CKSRYF104Z50
		C7547,C7550,C7551,C7555,C7577	CKSRYF104Z50
		C7511,C7546,C7548,C7553,C7562	DCH1165
		C7587 (10uF/16V)	DCH1165

RESISTORS

		R7568	RD1/2LMF100J
		R7633	RS1/16S1201F
		R7524	RS1/16S2203F
		R7554	RS1/16S2700F
		R7544,R7552	RS1/16S2702F
		R7504	RS1/16S3302F
		R7655,R7656	RS1/16S5600F
		R7555	RS1/16S6800F
		VR7504	CCP1390
		VR7502	CCP1398
		Other Resistors	RS1/16S###J

OTHERS

	X7501	CERAMIC RESONATOR (18.432 MHz)	VSS1189
⚠	U7501	TV FRONTEND	AXF1133

[AV IO BLOCK]

SEMICONDUCTORS

		Q7706,Q7707,Q7710,Q7716	2SA1586
		Q7723,Q7724,Q7728,Q7740,Q7743	2SA1586
		Q7748	2SA1586
		Q7702,Q7703,Q7705,Q7712-Q7714	2SC4116
		Q7719,Q7720,Q7722,Q7726,Q7727	2SC4116
		Q7729-Q7731,Q7733,Q7735,Q7737	2SC4116
		Q7739,Q7742,Q7744,Q7746,Q7747	2SC4116
		Q7749,Q7758-Q7760	2SC4116
		Q7704,Q7721,Q7738,Q7741	DTA124EUA
		Q7754,Q7755,Q7757	DTA124EUA
		Q7715	DTC124EUA
		Q7717,Q7718,Q7725,Q7734,Q7736	HN1A01FU
		Q7701,Q7745	HN1C01FU
		D7709,D7710,D7715,D7722	1SS301
		D7705-D7708,D7713,D7714,D7716	1SS302
		D7719,D7720	1SS302
		D7703,D7721	1SS355
		D7701,D7711,D7717	UDZS12(B)
		D7702,D7712,D7718,D7723-D7735	UDZS9R1(B)

COILS AND FILTERS

		L7701,L7702,L7705,L7706	LCTAW1R0J2520
		L7709,L7710	LCTAW1R0J2520
		L7703,L7704,L7707,L7708	LCTAW560J2520
		L7711-L7714	LCTAW560J2520

SWITCHES AND RELAYS

		S7701	ASH1029

CAPACITORS

		C7714,C7719,C7726,C7729,C7736	CCG1205
		C7740,C7760,C7761 (2.2/10)	CCG1205
		C7706,C7709,C7728,C7730,C7743	CEHAT471M10
		C7756	CEHAT471M10
		C7716	CEVWNP470M10
		C7773-C7780	CKSRYB102K50
		C7757	CKSRYB103K50
		C7701-C7703,C7722-C7725,C7735	CKSRYB105K10
		C7746-C7749,C7752-C7754,C7758	CKSRYB105K10
		C7705,C7727,C7731,C7741,C7744	CKSRYF104Z50
		C7751	CKSRYF104Z50
		C7707,C7708,C7712,C7713,C7715	DCH1165
		C7717,C7718,C7720,C7734	DCH1165
		C7737,C7738,C7742,C7745,C7750	DCH1165
		C7755,C7759,C7762-C7764 (10uF/16V)	DCH1165

RESISTORS

		R7708,R7717,R7756,R7757,R7761	RS1/10S151J
		R7777,R7801,R7802,R7809,R7810	RS1/10S151J
		R7820,R7834	RS1/10S151J
		R7841	RS1/16S1001F
		R7842	RS1/16S1501F
		R7709,R7718,R7723,R7724,R7729	RS1/16S75R0F
		R7735,R7739,R7745,R7770,R7821	RS1/16S75R0F
		R7843,R7853,R7858	RS1/16S75R0F
		Other Resistors	RS1/16S###J

OTHERS

	JA7703	6P PIN JACK	AKB1300
⚠	JA7701	RGB CONNECTOR	AKP1265
⚠	JA7705	RGB CONNECTOR	AKP1266

SEMICONDUCTORS

		IC7701,IC7702	TC74VHC125FT
		Q7752,Q7753	2SA1586
		Q7750,Q7751	2SC4116
		Q7711,Q7761	DTA124EUA

Mark No.	Description	Part No.
	Q7762	DTC124EUA
	D7736,D7737	1SS301
	CAPACITORS	
	C7767	ACH1400
	C7768	CKSRYB224K10
	C7765,C7766	CKSRYF104Z50
	RESISTORS	
	Other Resistors	RS1/16S###J
	OTHERS	
	JA7704 PINJACK+MINI DIN 4P	AKB1307
	[AV SW BLOCK]	
	SEMICONDUCTORS	
	IC8005	AN15852A
	IC8002	CXA2069Q
	IC8004	NJM12904V
	IC8003	TC4052BFT
	Q8005,Q8006	2SA1586
	Q8021,Q8022,Q8025	2SC4116
	Q8023	DTA124EUA
	Q8024	DTC124EUA
	Q8011	HN1C01FU
	D8017	1SS355
	CAPACITORS	
	C8005,C8006,C8056 (100uF/16V)	ACH1394
	C8014 (22uF/16V)	ACH1400
	C8022,C8027	CCSRCH181J50
	C8057	CCSRCH270J50
	C8019,C8038	CCSRCH681J50
	C8002-C8004,C8008,C8009,C8016	CKSRYB105K10
	C8001,C8013,C8015,C8025,C8026	CKSRYF104Z50
	C8031-C8036,C8039,C8042-C8044	CKSRYF104Z50
	C8048,C8052,C8053,C8055,C8059	CKSRYF104Z50
	C8010,C8012,C8018,C8023,C8024	DCH1165
	C8028,C8037,C8040,C8041	DCH1165
	C8060,C8061 (10uF/16V)	DCH1165
	RESISTORS	
	Other Resistors	RS1/16S###J
	SEMICONDUCTORS	
	IC8001	TC7WH123FU
	Q8026,Q8027	2SC4116
	D8015,D8016	1SS355
	D8013,D8014	UDZS9R1(B)
	CAPACITORS	
	C8050	CKSRYB105K10
	C8076,C8077	CKSRYB471K50
	C8049	CKSRYF104Z50
	C8051 (10uF/16V)	DCH1165
	RESISTORS	
	Other Resistors	RS1/16S###J
	SEMICONDUCTORS	
	IC8006	BH3540AFS
	IC8007	BH3544F
	Q8007,Q8008,Q8012,Q8014	2SA1586
	Q8013,Q8015,Q8019,Q8020	2SC4116

Mark No.	Description	Part No.
	Q8028	HN1B04FU
	CAPACITORS	
	C8064,C8065	CEHVKW100M16
	C8075	CEHVKW470M16
	C8063,C8066,C8069,C8070	CKSRYB105K10
	C8072-C8074	CKSRYB105K10
	C8071	CKSRYB471K50
	C8080,C8081	DCH1165
	RESISTORS	
	R8125,R8127	RD1/2LMF120J
	Other Resistors	RS1/16S###J
	[AV REG BLOCK]	
	SEMICONDUCTORS	
	IC8505,IC8506	BA50BC0WFP
	IC8504	BA90BC0WFP
	IC8509	BD6522F
	IC8503	M5291FP
	IC8508	NCP1117DT25
	IC8507	NCP1117ST33
	Q8507,Q8550	2SC4116
	Q8515	DTC124EUA
	Q8511	TPC8003
	D8506,D8509-D8513	1SS355
	D8550	UDZS5R6(B)
	COILS AND FILTERS	
	L8502 INDUCTOR	ATH1126
	F8501-F8504,F8506,F8508,F8510 EMI FILTER	CCG1162
⚠	L8505-L8507	LCTAWR22J2520
	CAPACITORS	
	C8536 (47uF/16V)	ACH1371
	C8512 (100uF/16V)	ACH1394
	C8519	CCSRCH221J50
	C8506	CCSRCH560J50
	C8520	CEHAT101M50
	C8545,C8559	CEHAZL471M16
	C8563	CEHVKW100M16
	C8561	CEHVKW100M50
	C8517,C8523,C8528,C8533	CEHVKW101M6R3
	C8510,C8515,C8521,C8526,C8531	CEHVKW220M16
	C8565	CEHVKW220M16
	C8511,C8513,C8516,C8518,C8522	CKSRYB103K50
	C8524,C8527,C8529,C8530,C8532	CKSRYB103K50
	C8534,C8540,C8542,C8551,C8560	CKSRYB103K50
	C8562,C8564	CKSRYB103K50
	C8514	CKSRYB821K50
	C8505,C8539,C8541,C8550 (10uF/16V)	DCH1165
	RESISTORS	
	R8508	ACN1164
	R8506,R8510,R8511,R8522,R8530	ACN1188
	R8533-R8535,R8560-R8563	ACN1188
	R8551	ACN1199
	R8550	RD1/2LMF181J
	R8509	RS1/16S1101F
	R8520	RS1/16S3302F

Mark No.	Description	Part No.
	R8528,R8531,R8543,R8545	RS1LMF1R0J
	R8525	RS1LMF3R3J
	R8554	RS3LMF121J
	Other Resistors	RS1/16S###J
OTHERS		
	CN8651 PLUG(15P)	KM200NA15
SEMICONDUCTORS		
	IC8502	M5291FP
	Q8508	2SD1664
	Q8509,Q8514	DTC124EUA
	D8516	RB160M-30
COILS AND FILTERS		
	F8512-F8514	CCG1162
	L8504	LCTAW560J2520
CAPACITORS		
	C8556	CCSRCH221J50
	C8554	CCSRCH681J50
	C8555	CEHAZL471M16
	C8553	CEHVKW101M6R3
RESISTORS		
	R8568,R8569,R8571	ACN1163
	R8572	RS1/16S1501F
	R8573	RS1/16S6801F
	Other Resistors	RS1/16S###J
OTHERS		
	CN8502	KM200NA6
	U8502 DD CON UNIT	AXY1090
COILS AND FILTERS		
	L8503	ATH1185
[BOARD IF BLOCK]		
CAPACITORS		
	C8656,C8657 (2.2/10)	CCG1205
	C8658-C8660	CKSRYB105K10
	C8653-C8655,C8661-C8663	DCH1165
RESISTORS		
	Other Resistors	RS1/16S###J
OTHERS		
	CN8652-CN8654 50P CONNECTER	AKM1201
	CN8658 12P FFCCONNECTOR	AKM1233
OTHERS		
	CN8662 40P CONNECTER	AKM1303
OTHERS		
	CN8660 12P FFCCONNECTOR	AKM1233
[UIF UCOM BLOCK]		
SEMICONDUCTORS		
	IC8705	BR24L01AFJ-W
	IC8702	HD64F3687FP
	IC8703	PST9231N
	IC8701	TC74VHC08FT
	IC8704	TC7W126FU
	Q8703	DTA124EUA
	Q8702	DTC124EUA
CAPACITORS		
	C8711 (100uF/16V)	ACH1394
	C8706,C8707	CCSRCH180J50
	C8717,C8718	CCSRCH470J50
	C8709	CKSRYB472K50
	C8701-C8705,C8708,C8712,C8713	CKSRYF104Z50
	C8716 (10uF/16V)	DCH1165
RESISTORS		
	R8719	RAB4C101J
	R8702,R8704,R8720,R8745	RAB4C103J
	Other Resistors	RS1/16S###J
OTHERS		
	CN8701 PLUG 8-P	AKM1225
	X8702 CERAMIC RESONATOR	ASS1168
	X8701 CRYSTAL OSCILLATOR (32.768kHz)	ASS1172
[TELETEXT BLOCK]		
SEMICONDUCTORS		
	IC8901	PST9230N
	IC8904	SDA6000
	IC8907	TC7SH04FU
	IC8902	TC7W126FU
	Q8904-Q8906	2SA1586
	Q8909	2SC4116
	Q8911	2SC5729
	Q8913	DTA124EUA
	Q8910,Q8914	DTC124EUA
	Q8907,Q8908	RN1902
	D8902	UDZS3R0(B)
	D8901	UDZS3R9(B)
CAPACITORS		
	C8916	CCSRCH180J50
	C8917	CCSRCH220J50
	C8941,C8942,C8944-C8949	CCSRCH560J50
	C8952-C8956	CCSRCH560J50
	C8904,C8940	CKSRYB102K50
	C8903	CKSRYB103K50
	C8926	CKSRYB104K16
	C8901	CKSRYB471K50
	C8902,C8909-C8911,C8914,C8915	CKSRYF104Z50
	C8918-C8920,C8923-C8925	CKSRYF104Z50
	C8927,C8928,C8930-C8936	CKSRYF104Z50
	C8937-C8939 (10uF/16V)	DCH1165
RESISTORS		
	R8891,R8893,R8894	RAB4C100J
	R8905-R8907,R8922,R8960,R8991	RAB4C101J
	R8896-R8899	RAB4C150J
	R8999-R9001	RS1/16S1801F
	R8996-R8998	RS1/16S9101F
	Other Resistors	RS1/16S###J
OTHERS		
	CN8901 PLUG 8-P	AKM1225

Mark	No.	Description	Part No.
	K 8905	TEST PIN	AKX9002
	X8901	CRYSTAL OSCILLATOR	ASS1187

[MEMORY SW BLOCK]

SEMICONDUCTORS

IC9104		K4S641632H-TC75
IC9105		TC4051BF
Q9102-Q9104,Q9106		2SA1586
Q9101,Q9105		2SC5729
Q9108		DTA124EUA
Q9107		DTC124EUA
D9101-D9104,D9106		1SS355
D9105		UDZS12(B)

CAPACITORS

C9128,C9132-C9139		CCSRCH560J50
C9117,C9131		CKSRYB474K10
C9101,C9107-C9110,C9113,C9114		CKSRYF104Z50
C9116,C9119,C9120,C9123		CKSRYF104Z50
C9129,C9130		CKSRYF104Z50

RESISTORS

R9141-R9144		RAB4C470J
Other Resistors		RS1/16S###J

SEMICONDUCTORS

IC9107		TC4051BF

CAPACITORS

C9124		CKSRYF104Z50

E MDR ASSY

SEMICONDUCTORS

IC9301,IC9302		TC74VHC08FT
Q9301,Q9302		2SC4116
Q9303		DTA124EUA

CAPACITORS

C9304		CCSRCH101J50
C9301,C9305-C9308		CCSRCH471J50
C9302,C9303		CKSRYF104Z50

RESISTORS

Other Resistors		RS1/16S###J

OTHERS

CN9301	SOCKET (20P)	AKP1226
CN9302	CONNECTOR	CKS3830

F SR ASSY (AWZ6949)

SEMICONDUCTORS

IC9451		SP3232ECY
IC9452		TC74VHC125FT

CAPACITORS

C9456,C9457		CEHVKW100M16
C9451-C9455,C9460		CKSRYF104Z16

RESISTORS

Other Resistors		RS1/16S###J

OTHERS

JA9451	9P D-SUB SOCKET	AKP1240
CN9452	CONNECTOR	CKS3826

SEMICONDUCTORS

IC9453		TC74VHC00FT
Q9455,Q9458		2SA1586
Q9453		2SC4116
Q9454,Q9456,Q9457		DTC124EUA
D9451,D9452,D9459,D9460		1SS355

CAPACITORS

C9459		CKSRYF104Z16

RESISTORS

Other Resistors		RS1/16S###J

OTHERS

JA9453	MINI JACK(4P)	AKN1073
JA9452	JACK	RKN1004

G FRONT ASSY (AWZ6951)

SEMICONDUCTORS

D9509-D9511,D9517,D9518		UDZS9R1(B)

COILS AND FILTERS

L9503,L9504		LCTAW1R0J2520

CAPACITORS

C9505,C9506		CKSRYB103K50
C9504		CKSRYB104K16
C9507-C9510		CKSRYB105K10
C9503		CKSRYB473K16
C9516		CKSRYF104Z16
C9515,C9523,C9534-C9536		DCH1165

RESISTORS

R9504,R9507,R9508		RS1/16S75R0F
Other Resistors		RS1/16S###J

SEMICONDUCTORS

IC9501		BR24C21FJ
IC9502		TC74VHC08FT
Q9503-Q9505		2SC4116
Q9501,Q9502		DTC124EUA
D9503		1SS301
D9506-D9508		1SS302
D9501,D9502,D9504,D9505		UDZS5R6(B)
D9512,D9513		UDZS5R6(B)

COILS AND FILTERS

L9505,L9506		LCTAW1R0J2520
L9501,L9502		LCTAW560J2520

CAPACITORS

C9517,C9518		CCSRCH220J50
C9501,C9502		CEHAT471M10
C9520-C9522		CEHVKW470M6R3
C9531-C9533		CKSRYB103K50
C9514		CKSRYB104K16
C9511,C9512		CKSRYB105K10
C9519		CKSRYF104Z16
C9513		DCH1165

Mark No.	Description	Part No.
RESISTORS		
	R9534-R9536	RS1/16S75R0F
	Other Resistors	RS1/16S###J
OTHERS		
	CN9503 MINI JACK	AKN1028
	JA9505 15P D-SUB SOCKET	AKP1241
	JA9503 JACK	RKN1026
OTHERS		
	JA9501 PIN JACK(3P)	AKB1303
	CN9502 50P CONNECTER	AKM1201
	JA9502 4P MINIDIN SOCKET(S)	AKP1238
OTHERS		
⚠	9501 F GROUNDIG PLATE	ANG2657

H LED ASSY (AWZ6953)

SEMICONDUCTORS		
	Q9651	DTA124EUA
	Q9652	RN2902
	D9652	SML-310DT
	D9654	SML-310MT
	D9653	SML-311UT
CAPACITORS		
	C9651	CKSRYB103K50
RESISTORS		
	Other Resistors	RS1/16S###J
OTHERS		
	CN9651 7P PH CONNECTOR	AKM1293

I TUNER BOARD ASSY

SEMICONDUCTORS		
	IC9013	XYW1004
OTHERS		
	9012 PCMCIA EJECTOR	ANG2673
	9005-9007 SCREW	BBZ30P060FTB
	9008-9011 SCREW	PMZ20P100FNI
	9003 TOP CAN	XNG1001
	9004 HEAT SINK	XNH1004
[TUNER BLOCK]		
SEMICONDUCTORS		
	IC1001	STV0361L
	IC1000	UPC3221GV
	Q1001	2SC2412K
	Q1002	DTC124EUA
	Q1003,Q1004	RK7002
	D1000	1SS355
	D1300	SM15T6V8A
	D1001,D1002	UDZS3R6(B)
COILS AND FILTERS		
	L1003	LCYAR82J2520
	F1006,F1007,F1011-F1015	VTF1091
	F1100-F1104,F1200 FERRITE CORE	VTF1091
	F1000 SAW FILTER	XTF1002
	L1010 CHIP FERRITE BEADS	XTX1003
	L1000 CHIP BALUN TRANS.	XTX1005
CAPACITORS		
	C1018,C1019	CCSRCH101J50
	C1037,C1038	CCSRCH5R0C50
	C1015	CEHVKW100M16
	C1014	CEHVKW100M50
	C1006,C1007,C1013,C1022,C1050	CEHVKW470M16
	C1053-C1056,C1101	CEHVKW470M16
	C1009	CKSRYB102K50
	C1000,C1001,C1010,C1016	CKSRYB103K50
	C1034,C1035,C1039	CKSRYB103K50
	C1003-C1005,C1012,C1017	CKSRYB104K16
	C1020,C1021,C1023-C1025	CKSRYB104K16
	C1027-C1029,C1031-C1033,C1036	CKSRYB104K16
	C1040,C1043-C1049,C1200,C1201	CKSRYB104K16
	C1030	CKSRYB105K10
RESISTORS		
	Other Resistors	RS1/16S###J
OTHERS		
	X1000 CRYSTAL RESONATOR (27MHz)	XSS1004
	M1000 FRONT END	XXF1006
[DEMUX BLOCK]		
SEMICONDUCTORS		
	IC2001	SN74LVU04APW
	IC2000	STI5517PWAL
	Q2000	2SC4081
	D2000	DA204U
	D2002	HVU307
	D2001	PDZ8.2B
	D2005,D2009	RB501V-40
	VA2001	AVR-M1608C120MT2AB
COILS AND FILTERS		
	F2000-F2003 FERRITE CORE	VTF1091
	L2200 CHIP FERRITE BEADS	XTX1003
CAPACITORS		
	C2012,C2014	CCSRCH100D50
	C2024,C2028,C2047	CCSRCH101J50
	C2008	CCSRCH330J50
	C2009,C2010	CCSRCH390J50
	C2006	CCSRCH471J50
	C2030-C2032,C2034	CEHVKW470M16
	C2007,C2015,C2018,C2019	CKSRYB102K50
	C2011	CKSRYB105K10
	C2000	CKSRYB471K50
	C2001,C2002,C2004,C2005	CKSRYF104Z16
	C2016,C2017,C2020-C2023,C2026	CKSRYF104Z16
	C2033,C2035-C2039,C2041-C2043	CKSRYF104Z16
	C2045,C2046	CKSRYF104Z16
	C2013	CKSRYF105Z10
	C2025,C2027,C2040,C2044	CKSRYF223Z50
	C2003	CKSRYF474Z16
RESISTORS		
	R2008,R2016,R2030	RAB4C103J
	R2200,R2201	RAB4CQ470J

Mark No.	Description	Part No.
	Other Resistors	RS1/16S###J
	OTHERS	
	X2001 CRYSTAL RESONATOR	ASS1172
	X2000 CRYSTAL RESONATOR (27MHz)	BSS1112
	[MEMORY BLOCK]	
	SEMICONDUCTORS	
	IC3000,IC3003	K4S281632F-UC75
	COILS AND FILTERS	
	L3001 CHIP FERRITE BEADS	XTX1001
	L3000 CHIP FERRITE BEADS	XTX1003
	CAPACITORS	
	C3005	CEHVKW470M16
	C3002-C3004,C3006,C3011	CKSRYF104Z16
	C3014-C3016,C3020	CKSRYF104Z16
	C3000,C3001,C3007,C3008	CKSRYF223Z50
	C3012,C3013,C3017-C3019	CKSRYF223Z50
	RESISTORS	
	R3003,R3102-R3111	RAB4CQ470J
	Other Resistors	RS1/16S###J
	[A/V BLOCK]	
	SEMICONDUCTORS	
	IC4008	CS5340CZZ
	IC4003	CS8406CZZ
	IC4000	SN74LVU04APW
	IC4001	TSH72CDT
	Q4000,Q4100-Q4104	2SC4081
	Q4200	DTC124EUA
	D4002	PDZ10B
	COILS AND FILTERS	
	F4000 FERRITE CORE	VTF1091
	CAPACITORS	
	C4056	CCSRCH101J50
	C4004,C4007	CCSRCH220J50
	C4019-C4023,C4025	CEHVKW100M16
	C4015,C4027,C4032,C4033	CEHVKW2R2M50
	C4008,C4053,C4100	CEHVKW470M16
	C4003	CKSRYB102K50
	C4006,C4030,C4048,C4052	CKSRYB103K50
	C4101-C4104	CKSRYB103K50
	C4011,C4012,C4054,C4055	CKSRYB105K10
	C4002,C4005,C4009,C4010	CKSRYB332K50
	C4000,C4001,C4013,C4014,C4018	CKSRYF104Z16
	C4024,C4026,C4028,C4029,C4057	CKSRYF104Z16
	RESISTORS	
	R4029,R4032-R4035,R4037	RS1/16S2000F
	Other Resistors	RS1/16S###J
	OTHERS	
	CN4000 40P CONNECTER	AKM1217
	JA4000 OPTICAL OUT MOD.	GP1FM513TZ
	X4000 CRYSTAL (12.288MHz)	XSS1006
	[CI BLOCK]	
	SEMICONDUCTORS	
	IC5002	109865-PBF
	IC5003	74LCX245MTCX
	IC5004,IC5005	74LCX373MTCX
	IC5000	BA05SFP
	Q5000	2SA1576A
	Q5002,Q5004,Q5100	DTC124EUA
	Q5101	TPC6004
	D5000	1SS355
	CAPACITORS	
	C5009,C5202	CEHVKW470M16
	C5000,C5002,C5200	CKSRYB103K50
	C5004-C5008,C5010-C5013,C5100	CKSRYF104Z16
	RESISTORS	
	R5105-R5108	RAB4C150J
	R5016,R5020,R5024,R5026,R5033	RAB4CQ470J
	R5035,R5039-R5041,R5048-R5053	RAB4CQ470J
	Other Resistors	RS1/16S###J
	OTHERS	
	CN5000 PCMCIA CONNECTOR	XKP1003
	[CPLD/POWER BLOCK]	
	SEMICONDUCTORS	
	IC6200	BA050LBSG2
	IC6001	BA05FP
	IC6000	XC9572XL-10VQG44C
	Q6105	2SA1576A
	Q6100,Q6101	2SC2411K
	Q6104,Q6202	DTA143EUA
	Q6103,Q6200,Q6201	DTC124EUA
	D6003,D6201	1SS355
	D6200	RB501V-40
	D6101-D6103	UDZS5R6(B)
	COILS AND FILTERS	
	L6100	LCYAR82J2520
	F6100	VTF1091
	CAPACITORS	
	C6102	CCSRCH101J50
	C6007	CEHVKW100M16
	C6000,C6202	CEHVKW100M50
	C6001,C6003,C6006,C6013,C6014	CEHVKW470M16
	C6016,C6019,C6023,C6027,C6104	CEHVKW470M16
	C6200,C6201	CEHVKW470M16
	C6105	CKSRYB105K10
	C6002,C6004,C6009-C6012	CKSRYF104Z16
	C6017,C6018,C6028,C6103,C6106	CKSRYF104Z16
	C6203	CKSRYF104Z16
	C6204	CKSRYF105Z10
	C6100,C6101	CKSRYF223Z50
	RESISTORS	
	R6100,R6208	RAB4C390J
	R6201-R6203,R6209	RAB4CQ470J
	R6004,R6006,R6104	RS1/10S0R0J
	R6110	RS1/10S101J
	R6029	RS1/10S681J
	Other Resistors	RS1/16S###J
	OTHERS	

Mark	No.	Description	Part No.
	CN6003	50P CONNECTER	AKM1236
	CN6002	PH 8P CONNECTOR	AKM1294
	CN6001	PH 9P CONNECTOR	AKM1295

J SW ASSY

SWITCHES AND RELAYS

⚠	S7451		ASG1093

OTHERS

	CN7456	2P-SIDE VA-CONNECTOR	S2P3-VH

K POWER SUPPLY UNIT

POWER SUPPLY UNIT has no service part.

L PC CARD MODULE

PC CARD MODULE has no service part.

• PCB PARTS LIST (PDP-R05FE)

A MR MAIN BOARD ASSY (AWZ6945)

[GCR BLOCK]

RESISTORS

R6011-R6016,R6021,R6041,R6043	RS1/16S0R0J
R6045	RS1/16S0R0J

[MICHEL MAIN BLOCK]

SEMICONDUCTORS

IC6107	PD0278A
IC6101	TC7W126FU
Q6108	2SA1586
Q6101,Q6102	HN1A01FU
Q6106,Q6107	HN1B04FU

COILS AND FILTERS

F6101,F6103,F6105-F6107	CCG1162 EMI FILTER
L6107	LCTAW220J2520
L6101-L6104	LCYC6R8K2125

CAPACITORS

C6102 (10/6.3)	ACG7046
C6126,C6142,C6163,C6164	CCSRCH330J50
C6171,C6172	CCSRCH330J50
C6127,C6143	CCSRCH680J50
C6182,C6186	CEHVKW101M6R3
C6188	CEHVKW470M6R3
C6151	CKSQYB225K10
C6112,C6114	CKSRYB102K50
C6119,C6136,C6153,C6154	CKSRYB104K16
C6168,C6169,C6177,C6185	CKSRYB104K16
C6101,C6155,C6175,C6190	CKSRYB105K6R3
C6103,C6104,C6107-C6111,C6113	CKSSYF104Z16
C6116,C6123-C6125,C6130-C6133	CKSSYF104Z16
C6140,C6141,C6146-C6148,C6150	CKSSYF104Z16
C6152,C6160-C6162,C6165-C6167	CKSSYF104Z16
C6170,C6176,C6178-C6181	CKSSYF104Z16

RESISTORS

R6101,R6104-R6106,R6120	RAB4CQ100J
R6124,R6125	RAB4CQ100J
R6136,R6137,R6142-R6145	RS1/16S0R0J
R6194-R6196	RS1/16S1000F
R6115,R6131	RS1/16S100J
R6197,R6207	RS1/16S103J
R6147	RS1/16S1301F
R6198,R6208	RS1/16S183J
R6113,R6129	RS1/16S221J
R6126,R6138	RS1/16S2701F
R6112,R6123,R6128,R6141,R6165	RS1/16S271J
R6175	RS1/16S271J
R6170,R6171,R6174,R6176	RS1/16S331J
R6169,R6172,R6189	RS1/16S471J
R6122,R6140	RS1/16S473J
R6167,R6168	RS1/16S8201F
Other Resistors	RS1/16SS###J

OTHERS

X6101 CRYSTAL OSCILLATOR (27MHz)	ASS1175

SEMICONDUCTORS

Q6104,Q6105,Q6109	2SA1586

CAPACITORS

C6266,C6267	CCSRCH470J50
C6149,C6187,C6189	CKSSYF104Z16

RESISTORS

R6132-R6134	RAB4CQ103J
R6256-R6261	RS1/16S0R0J
Other Resistors	RS1/16SS###J

[AD MAIN BLOCK]

SEMICONDUCTORS

IC6402	AD80058
IC6404	BA7078AF
IC6401	SM5301BS
IC6405,IC6408	TC74VHC126FT
Q6405	HN1B04FU
Q6401	RN1303

COILS AND FILTERS

F6401-F6404 EMI FILTER	CCG1162

CAPACITORS

C6422,C6441 (10/6.3)	ACG7046
C6445	CCSRCH151J50
C6438	CKSRYB103K50
C6404,C6424	CKSRYB104K16
C6408,C6411,C6412,C6421,C6431	CKSRYB105K6R3
C6434,C6435	CKSRYB105K6R3
C6409,C6414,C6423	CKSRYB473K16
C6443	CKSRYB474K10
C6442	CKSRYB562K50
C6402	CKSRYB822K50
C6401	CKSRYB823K16
C6403,C6405-C6407,C6410,C6413	CKSSYF104Z16

Mark No.	Description	Part No.
	C6415-C6420,C6425-C6429	CKSSYF104Z16
	C6439,C6440,C6444,C6448	CKSSYF104Z16
	RESISTORS	
	R6482,R6489	RAB4CQ101J
	R6405,R6410,R6418,R6424	RAB4CQ330J
	R6438,R6439	RAB4CQ330J
	R6420,R6431-R6436	RS1/16S0R0J
	R6404,R6408,R6409,R6416,R6417	RS1/16S1000F
	R6423	RS1/16S1000F
	R6406	RS1/16S104J
	R6422	RS1/16S1101F
	R6478	RS1/16S153J
	R6472	RS1/16S221J
	R6479	RS1/16S222J
	R6414	RS1/16S224J
	R6401	RS1/16S2701F
	R6413	RS1/16S472J
	R6465	RS1/16S682J
	Other Resistors	RS1/16SS###J
	SEMICONDUCTORS	
	IC6403,IC6406	MM1389XFBE
	CAPACITORS	
	C6430,C6432,C6433,C6446,C6447	CKSRYB105K6R3
	C6449-C6455	CKSRYB105K6R3
	C6436,C6437	CKSSYF104Z16
	RESISTORS	
	R6636-R6641	RS1/16S0R0J
	Other Resistors	RS1/16SS###J
	[HDMI RX BLOCK]	
	SEMICONDUCTORS	
	IC6880	BR24L02FJ-W
	IC6803	PCM1742KE
	IC6881	SII9993CTG100
	IC6806	TC74HC4538AFT
	Q6888,Q6889	2SA1586
	Q6885,Q6886	2SC4116
	Q6884,Q6887	RN1303
	Q6881	RN1902
	Q6882	RN2303
	Q6880	SM6K2
	D6880,D6881	1SS302
	D6808	1SS355
	D6806,D6807,D6884	DAN202U
	D6883	UDZS6R8(B)
	COILS AND FILTERS	
	F6881 EMI FILTER	CCG1162
	CAPACITORS	
	C6802,C6849,C6851 (10/6.3)	ACG7046
	C6880,C6882,C6884,C6886	CCSRCH101J50
	C6888,C6889,C6892,C6895,C6896	CCSRCH101J50
	C6899-C6902,C6905,C6906,C6915	CCSRCH101J50
	C6917	CCSRCH101J50
	C6927,C6928	CCSRCH221J50
	C6921,C6922	CEHVKW101M6R3
	C6911	CEHVKW220M6R3

Mark No.	Description	Part No.
	C6913	CKSRYB104K16
	C6920	CKSRYB473K16
	C6831,C6848,C6856,C6857,C6881	CKSSYF104Z16
	C6883,C6885,C6887,C6890,C6891	CKSSYF104Z16
	C6893,C6894,C6897,C6898	CKSSYF104Z16
	C6903,C6904,C6907-C6910,C6912	CKSSYF104Z16
	C6916,C6923-C6926	CKSSYF104Z16
	C6854,C6855 (10uF/16V)	DCH1165
	RESISTORS	
	R6881-R6883,R6885,R6892,R6896	RAB4CQ101J
	R6901,R6904	RAB4CQ101J
	R6859	RS1/16S0R0J
	R6939,R6940	RS1/16S104J
	R6832,R6833	RS1/16S222J
	R6889	RS1/16S3900F
	R6915	RS1/16S3901F
	R6872	RS1/16S473J
	Other Resistors	RS1/16SS###J
	OTHERS	
	JA6881 HDMI CONNECTOR	AKP1232
	CAPACITORS	
	C6853	CCSRCH470J50
	RESISTORS	
	R6826	RAB4CQ101J
	R6834,R6836,R6944,R6947-R6950	RAB4CQ103J
	R6835,R6839,R6937,R6938	RAB4CQ470J
	Other Resistors	RS1/16SS###J
	[ROZ BLOCK]	
	SEMICONDUCTORS	
	IC6951	PD6435A
	Q6951	RN1303
	CAPACITORS	
	C6959,C6960	CCSRCH150J50
	C6951	CEHVKW101M6R3
	C6952-C6954,C6956-C6958	CKSSYF104Z16
	C6961,C6962,C6964-C6968	CKSSYF104Z16
	RESISTORS	
	R6951-R6953,R6956-R6962,R6966	RAB4CQ100J
	R6968,R6972	RAB4CQ100J
	R6945,R6946,R6988	RAB4CQ103J
	Other Resistors	RS1/16SS###J
	OTHERS	
	X6951 CERAMIC RESONATOR	ASS1169
	RESISTORS	
	Other Resistors	RS1/16SS###J
	[CELIA BLOCK]	
	SEMICONDUCTORS	
	IC7001,IC7002	HY57V643220CT-7
	IC7004	PE5362A
	IC7003	TC74LCX125FT
	COILS AND FILTERS	
	F7001,F7002 EMI FILTER	CCG1162

Mark No.	Description	Part No.
	CAPACITORS	
	C7031 (10/6.3)	ACG7046
	C7029,C7041 (330uF/6.3V)	ACH1365
	C7064	CCSRCH100D50
	C7025,C7066,C7067	CCSRCH221J50
	C7001-C7024,C7026-C7028	CKSSYF104Z16
	C7032-C7040,C7042-C7063	CKSSYF104Z16
	RESISTORS	
	R7013-R7018,R7030	RAB4CQ220J
	R7007	RS1/16S220J
	Other Resistors	RS1/16SS###J
	OTHERS	
	X7001 CRYSTAL OSCILLATOR (85MHz)	ASS1174
	[MIKE BLOCK]	
	SEMICONDUCTORS	
	IC7152	MBM29PL3200BE70PFV
	IC7101	PD5855A
	COILS AND FILTERS	
	F7101,F7102 EMI FILTER	CCG1162
	CAPACITORS	
	C7103,C7120 (330uF/6.3V)	ACH1365
	C7101,C7102,C7104-C7119	CKSSYF104Z16
	C7121-C7135,C7152,C7158-C7162	CKSSYF104Z16
	RESISTORS	
	R7113,R7115,R7116,R7119,R7121	RAB4CQ101J
	R7123,R7124	RAB4CQ101J
	R7102,R7105-R7108,R7110,R7111	RAB4CQ330J
	Other Resistors	RS1/16SS###J
	SEMICONDUCTORS	
	IC7151	MBM29PL3200BE70PFV
	CAPACITORS	
	C7151,C7153-C7157	CKSSYF104Z16
	RESISTORS	
	Other Resistors	RS1/16SS###J
	[MAIN UCOM BLOCK]	
	SEMICONDUCTORS	
	IC7205	BR24L64F-W
	IC7207	MB91F355APMTGE1
	IC7201	MM1522XU
	IC7209	NJM12904V
	IC7211	PQ20WZ11
	IC7210	PST3612UR
	IC7203,IC7206	PST3628UR
	IC7202	TC74VHC125FT
	Q7203	2SA1586
	Q7201	2SJ461A
	Q7202	HN1C01FU
	Q7206,Q7207	RN1902
	D7201,D7202	1SS355
	D7203	SML-311UT
	D7204	UDZS2R7(B)

Mark No.	Description	Part No.
	CAPACITORS	
	C7244	CCSRCH100D50
	C7231	CCSRCH102J50
	C7243,C7245	CCSRCH221J50
	C7241,C7242,C7248,C7249	CCSRCH470J50
	C7213,C7218	CCSRCH7R0D50
	C7205	CEHVKW101M6R3
	C7201,C7217,C7236,C7239,C7252	CKSRYB103K50
	C7226,C7237	CKSRYB104K16
	C7216	CKSRYB472K50
	C7209-C7212,C7214,C7215,C7219	CKSSYF104Z16
	C7221-C7225,C7227-C7229	CKSSYF104Z16
	C7232-C7234,C7238,C7240	CKSSYF104Z16
	C7246,C7247,C7253 (10uF/16V)	DCH1165
	RESISTORS	
	R7221,R7229,R7241,R7248-R7250	RAB4CQ101J
	R7201	RAB4CQ472J
	R7244,R7245,R7275,R7286,R7287	RS1/16S0R0J
	R7290,R7295-R7306	RS1/16S0R0J
	R7269	RS1/16S101J
	R7278	RS1/16S2201F
	R7215	RS1/16S223J
	R7279	RS1/16S4700F
	R7227,R7260	RS1/16S473J
	R7224	RS1/16S682J
	R7280	RS1/16S7500F
	R7277	RS1/16S8201F
	Other Resistors	RS1/16SS###J
	OTHERS	
	CN7203 3P CONNECTOR	AKM1213
	CN7201 PLUG 8-P	AKM1225
	CN7202 3P PH CONNECTOR	AKM1274
	X7201 CERAMIC RESONATOR	ASS1170
	CAPACITORS	
	C7258-C7261	CCSRCH470J50
	C7256,C7257	CKSRYB103K50
	RESISTORS	
	Other Resistors	RS1/16SS###J
	[MR IFBLOCK] [REGLATORBLOCK]	
	SEMICONDUCTORS	
	IC7453	BA33BC0WFP
	IC7454	BA50BC0WFP
	IC7456	NCP1117DT15
	IC7401	SII170BCLG64
	IC7404	TC74VCX08FT
	IC7403	TC74VCX574FT
	IC7451	TC74VHC08FT
	Q7406	2SA1586
	Q7405	HN1C01FU
	Q7403,Q7407,Q7408	RN1303
	Q7451	RN1901
	Q7401	RN1902
	Q7402,Q7404,Q7409	RN2303
	D7401-D7407,D7457-D7459	1SS355
	COILS AND FILTERS	

Mark No.	Description	Part No.
F7405-F7408	EMI FILTER	ATF1209
L7401 (3.3uH)		ATH1162
F7401-F7404	EMI FILTER	CCG1162

CAPACITORS

C7416,C7421,C7424,C7484 (10/6.3)	ACG7046
C7474 (330uF/6.3V)	ACH1365
C7401,C7402	CCSRCH100D50
C7475,C7477-C7482	CCSRCH221J50
C7403,C7404,C7406,C7407	CCSRCH820J50
C7410,C7411,C7413,C7414,C7419	CCSRCH820J50
C7456,C7460,C7465	CEHVKW101M6R3
C7405,C7412,C7415,C7417,C7418	CKSSYF104Z16
C7420,C7423,C7451,C7452	CKSSYF104Z16
C7454,C7455,C7458,C7459,C7466	CKSSYF104Z16
C7469,C7473,C7476	CKSSYF104Z16
C7453,C7457	DCH1165

RESISTORS

R7425,R7449,R7451,R7452,R7454	RAB4CQ101J
R7481,R7497-R7499	RAB4CQ101J
R7453	RAB4CQ103J
R7440,R7441,R7443	RS1/16S0R0J
R7417,R7418,R7429,R7431	RS1/16S111J
R7428,R7430	RS1/16S272J
R7410	RS1/16S5100F
R7456	RS1LMF1R5J
R7455	RS2LMF4R7J
Other Resistors	RS1/16SS###J

OTHERS

CN7454,CN7455 50P CONNECTER	AKM1201
CN7453 PLUG 15-P	AKM1232
CN7402 16P FFC CONNECTOR	AKM1234
CN7451 PH 15P CONNECTOR	AKM1301
CN7401 DVI SOCKET (24P)	AKP1250

SEMICONDUCTORS

IC7452	TC74VHC126FT

CAPACITORS

C7137,C7485,C7486	CCSRCH470J50
C7068,C7471	CKSSYF104Z16

RESISTORS

R7477	RAB4CQ101J
R7384	RS1/16S332J
Other Resistors	RS1/16SS###J

B AV BOARD ASSY (AWZ6947)

[TUNER BLOCK]

SEMICONDUCTORS

IC7502	MSP3417G
IC7501	TDA9818TS
Q7503,Q7504,Q7506,Q7513,Q7522	2SA1586
Q7524,Q7527,Q7528,Q7537	2SA1586
Q7511,Q7517	2SC4082
Q7501,Q7502,Q7505,Q7509,Q7512	2SC4116
Q7514,Q7518-Q7520,Q7526,Q7530	2SC4116
Q7533-Q7536,Q7538	2SC4116
Q7516	2SC4213
Q7532	DTA124EUA
Q7531	DTC124EUA
D7504	1SS355
D7502,D7503	1SS356
D7501	UDZS33(B)

COILS AND FILTERS

L7501	LCTAW100J2520
L7512,L7513	LCTAW150J2520
L7520	LCTAW270J2520
L7514	LCTAW4R7J2520
L7511	LCTAW8R2J2520
L7519	LCTAWR22J2520
L7516	LCTAWR27J2520
L7505,L7507	LCTAWR68J2520
F7511,F7512	VTF1080
F7506 SAW FILTER	VTF1177
F7503 SAW FILTER	VTF1179
F7504 IFTRAP FILTER	VTF1180
F7505 IFTRAP FILTER	VTF1181
F7501 TRAP FILTER	VTF1183
L7504 VCO COIL	VTL1164

CAPACITORS

C7507 (220uF/10V)	ACH1368
C7552 (3.3uF/50V)	ACH1385
C7509,C7525,C7549,C7591,C7599 (100uF/16V)	ACH1394
C7564,C7573	CCSRCH102J50
C7515	CCSRCH120J50
C7568	CCSRCH121J50
C7578	CCSRCH181J50
C7601	CCSRCH220J50
C7567	CCSRCH470J50
C7556,C7558	CCSRCH560J50
C7569	CCSRCH5R0C50
C7576	CCSRCH680J50
C7602	CCSRCH820J50
C7570	CCSRCJ3R0C50
C7501	CEHVKW100M50
C7596	CEHVKW330M10
C7542	CEHVKW470M16
C7537,C7539	CKSQYB225K10
C7502,C7520,C7522,C7523	CKSRYB102K50
C7534,C7535,C7579,C7580	CKSRYB102K50
C7514,C7524,C7528,C7536,C7545	CKSRYB103K50
C7554,C7572	CKSRYB103K50
C7541	CKSRYB104K16
C7503	CKSRYB105K10
C7559,C7561,C7588	CKSRYB152K50
C7590	CKSRYB221K50
C7504,C7505,C7526	CKSRYB222K50
C7540	CKSRYB224K10
C7518	CKSRYB332K50
C7557,C7560,C7589	CKSRYB471K50
C7563,C7571	CKSRYB472K50
C7575	CKSRYF104Z16
C7506,C7510,C7513,C7527,C7531	CKSRYF104Z50
C7547,C7550,C7551,C7555,C7577	CKSRYF104Z50
C7511,C7546,C7548,C7553,C7562	DCH1165
C7587 (10uF/16V)	DCH1165

RESISTORS

Mark	No.	Description	Part No.
	R7568		RD1/2LMF100J
	R7633		RS1/16S1201F
	R7524		RS1/16S2203F
	R7554		RS1/16S2700F
	R7544,R7552		RS1/16S2702F
	R7504		RS1/16S3302F
	R7655,R7656		RS1/16S5600F
	R7555		RS1/16S6800F
	VR7504		CCP1390
	VR7502		CCP1398
	Other Resistors		RS1/16S###J

OTHERS

	X7501	CERAMIC RESONATOR (18.432 MHz)	VSS1189
⚠	U7501	TV FRONTEND	AXF1133

[AV IO BLOCK]

SEMICONDUCTORS

Q7706,Q7707,Q7710,Q7716		2SA1586
Q7723,Q7724,Q7728,Q7740,Q7743		2SA1586
Q7748		2SA1586
Q7702,Q7703,Q7705,Q7712-Q7714		2SC4116
Q7719,Q7720,Q7722,Q7726,Q7727		2SC4116
Q7729-Q7731,Q7733,Q7735,Q7737		2SC4116
Q7739,Q7742,Q7744,Q7746,Q7747		2SC4116
Q7749,Q7758-Q7760		2SC4116
Q7704,Q7721,Q7738,Q7741		DTA124EUA
Q7754,Q7755,Q7757		DTA124EUA
Q7715		DTC124EUA
Q7717,Q7718,Q7725,Q7734,Q7736		HN1A01FU
Q7701,Q7745		HN1C01FU
D7709,D7710,D7715,D7722		1SS301
D7705-D7708,D7713,D7714,D7716		1SS302
D7719,D7720		1SS302
D7703,D7721		1SS355
D7701,D7711,D7717		UDZS12(B)
D7702,D7712,D7718,D7723-D7735		UDZS9R1(B)

COILS AND FILTERS

L7701,L7702,L7705,L7706	LCTAW1R0J2520
L7709,L7710	LCTAW1R0J2520
L7703,L7704,L7707,L7708	LCTAW560J2520
L7711-L7714	LCTAW560J2520

SWITCHES AND RELAYS

S7701	ASH1029

CAPACITORS

C7706,C7709,C7728,C7730,C7743	CEHAT471M10
C7756	CEHAT471M10
C7716	CEVWNP470M10
C7757	CKSRYB103K50
C7701-C7703,C7714,C7719	CKSRYB105K10
C7722-C7726,C7729,C7735,C7736	CKSRYB105K10
C7740,C7746-C7749,C7752-C7754	CKSRYB105K10
C7758,C7760,C7761	CKSRYB105K10
C7773-C7780	CKSRYB222K50
C7705,C7727,C7731,C7741,C7744	CKSRYF104Z50
C7751	CKSRYF104Z50
C7707,C7708,C7712,C7713,C7715	DCH1165
C7717,C7718,C7720,C7734	DCH1165
C7737,C7738,C7742,C7745,C7750	DCH1165
C7755,C7759,C7762-C7764 (10uF/16V)	DCH1165

RESISTORS

R7708,R7717,R7756,R7757,R7761	RS1/10S151J
R7777,R7801,R7802,R7809,R7810	RS1/10S151J
R7820,R7834	RS1/10S151J
R7841	RS1/16S1001F
R7842	RS1/16S1501F
R7709,R7718,R7723,R7724,R7729	RS1/16S75R0F
R7735,R7739,R7745,R7770,R7821	RS1/16S75R0F
R7843,R7853,R7858	RS1/16S75R0F
Other Resistors	RS1/16S###J

OTHERS

JA7703	6P PIN JACK	AKB1300
⚠ JA7701	RGB CONNECTOR	AKP1265
⚠ JA7705	RGB CONNECTOR	AKP1266

[AV SW BLOCK]

SEMICONDUCTORS

IC8005	AN15852A
IC8002	CXA2069Q
IC8004	NJM12904V
IC8003	TC4052BFT
Q8005,Q8006	2SA1586
Q8021,Q8022,Q8025	2SC4116
Q8023	DTA124EUA
Q8024	DTC124EUA
Q8011	HN1C01FU
D8017	1SS355

CAPACITORS

C8005,C8006,C8056 (100uF/16V)	ACH1394
C8014 (22uF/16V)	ACH1400
C8022,C8027	CCSRCH181J50
C8057	CCSRCH270J50
C8019,C8038	CCSRCH681J50
C8002-C8004,C8008,C8009,C8016	CKSRYB105K10
C8001,C8013,C8015,C8025,C8026	CKSRYF104Z50
C8031-C8036,C8039,C8042-C8044	CKSRYF104Z50
C8048,C8052,C8053,C8055,C8059	CKSRYF104Z50
C8010,C8012,C8018,C8023,C8024	DCH1165
C8028,C8037,C8040,C8041	DCH1165
C8060,C8061 (10uF/16V)	DCH1165

RESISTORS

Other Resistors	RS1/16S###J

[AV REG BLOCK]

SEMICONDUCTORS

IC8505,IC8506	BA50BC0WFP
IC8504	BA90BC0WFP
IC8509	BD6522F
IC8503	M5291FP
IC8508	NCP1117DT25
IC8507	NCP1117ST33
Q8507,Q8550	2SC4116
Q8515	DTC124EUA
Q8511	TPC8003
D8506,D8509-D8513	1SS355
D8550	UDZS5R6(B)

Mark	No.	Description	Part No.
		COILS AND FILTERS	
		L8502 INDUCTOR	ATH1126
A		F8501-F8504,F8506,F8508,F8510 EMI FILTER	CCG1162
⚠		L8505-L8507	LCTAWR22J2520
		CAPACITORS	
		C8536 (47uF/16V)	ACH1371
		C8512 (100uF/16V)	ACH1394
		C8519	CCSRCH221J50
		C8506	CCSRCH560J50
		C8520	CEHAT101M50
		C8545,C8559	CEHAZL471M16
		C8563	CEHVKW100M16
B		C8561	CEHVKW100M50
		C8517,C8523,C8528,C8533	CEHVKW101M6R3
		C8510,C8515,C8521,C8526,C8531	CEHVKW220M16
		C8565	CEHVKW220M16
		C8511,C8513,C8516,C8518,C8522	CKSRYB103K50
		C8524,C8527,C8529,C8530,C8532	CKSRYB103K50
		C8534,C8540,C8542,C8551,C8560	CKSRYB103K50
		C8562,C8564	CKSRYB103K50
		C8514	CKSRYB821K50
		C8505,C8539,C8541,C8550 (10uF/16V)	DCH1165
C			
		RESISTORS	
		R8508	ACN1164
		R8506,R8510,R8511,R8522,R8530	ACN1188
		R8533-R8535,R8560-R8563	ACN1188
		R8551	ACN1199
		R8550	RD1/2LMF181J
		R8509	RS1/16S1101F
		R8520	RS1/16S3302F
		R8528,R8531,R8543,R8545	RS1LMF1R0J
		R8525	RS1LMF3R3J
D		R8554	RS3LMF121J
		Other Resistors	RS1/16S###J
		OTHERS	
		CN8651 PLUG(15P)	KM200NA15
		U8502 DD CON UNIT	AXY1090
		[BOARD IF BLOCK]	
		CAPACITORS	
		C8656-C8660	CKSRYB105K10
		C8653-C8655,C8661-C8663 (10uF/16V)	DCH1165
E			
		RESISTORS	
		Other Resistors	RS1/16S###J
		OTHERS	
		CN8652-CN8654 50P CONNECTER	AKM1201
		CN8658 12P FFCCONNECTOR	AKM1233
		[UIF UCOM BLOCK]	
		SEMICONDUCTORS	
F		IC8705	BR24L01AFJ-W
		IC8702	HD64F3687FP
		IC8703	PST9231N
		IC8701	TC74VHC08FT
		IC8704	TC7W126FU
		Q8703	DTA124EUA
		Q8702	DTC124EUA
		CAPACITORS	
		C8711 (100uF/16V)	ACH1394
		C8706,C8707	CCSRCH180J50
		C8717,C8718	CCSRCH470J50
		C8709	CKSRYB472K50
		C8701-C8705,C8708,C8712,C8713	CKSRYF104Z50
		C8716 (10uF/16V)	DCH1165
		RESISTORS	
		R8719	RAB4C101J
		R8702,R8704,R8720,R8745	RAB4C103J
		Other Resistors	RS1/16S###J
		OTHERS	
		CN8701 PLUG 8-P	AKM1225
		X8702 CERAMIC RESONATOR	ASS1168
		X8701 CRYSTAL OSCILLATOR (32.768kHz)	ASS1172
		[TELETEXT BLOCK]	
		SEMICONDUCTORS	
		IC8901	PST9230N
		IC8904	SDA6000
		IC8907	TC7SH04FU
		IC8902	TC7W126FU
		Q8904-Q8906	2SA1586
		Q8909	2SC4116
		Q8911	2SC5729
		Q8913	DTA124EUA
		Q8910,Q8914	DTC124EUA
		Q8907,Q8908	RN1902
		D8902	UDZS3R0(B)
		D8901	UDZS3R9(B)
		CAPACITORS	
		C8916	CCSRCH180J50
		C8917	CCSRCH220J50
		C8941,C8942,C8944-C8949	CCSRCH560J50
		C8952-C8956	CCSRCH560J50
		C8904,C8940	CKSRYB102K50
		C8903	CKSRYB103K50
		C8926	CKSRYB104K16
		C8901	CKSRYB471K50
		C8902,C8909-C8911,C8914,C8915	CKSRYF104Z50
		C8918-C8920,C8923-C8925	CKSRYF104Z50
		C8927,C8928,C8930-C8936	CKSRYF104Z50
		C8937-C8939 (10uF/16V)	DCH1165
		RESISTORS	
		R8891,R8893,R8894	RAB4C100J
		R8905-R8907,R8922,R8960,R8991	RAB4C101J
		R8896-R8899	RAB4C150J
		R8999-R9001	RS1/16S1801F
		R8996-R8998	RS1/16S9101F
		Other Resistors	RS1/16S###J
		OTHERS	
		CN8901 PLUG 8-P	AKM1225

Mark No.	Description	Part No.
K 8905	TEST PIN	AKX9002
X8901	CRYSTAL OSCILLATOR	ASS1187

[MEMORY SW BLOCK]

SEMICONDUCTORS

IC9104		K4S641632H-TC75
IC9105		TC4051BF
Q9102-Q9104,Q9106		2SA1586
Q9101,Q9105		2SC5729
Q9108		DTA124EUA
Q9107		DTC124EUA
D9101-D9104,D9106		1SS355
D9105		UDZS12(B)

CAPACITORS

C9128,C9132-C9139	CCSRCH560J50
C9117,C9131	CKSRYB474K10
C9101,C9107-C9110,C9113,C9114	CKSRYF104Z50
C9116,C9119,C9120,C9123	CKSRYF104Z50
C9129,C9130	CKSRYF104Z50

RESISTORS

R9141-R9144	RAB4C470J
Other Resistors	RS1/16S###J

F SR ASSY (AWZ6950)

SEMICONDUCTORS

IC9451	SP3232ECY
IC9452	TC74VHC125FT

CAPACITORS

C9456,C9457	CEHVKW100M16
C9451-C9455,C9460	CKSRYF104Z16

RESISTORS

Other Resistors	RS1/16S###J

OTHERS

JA9451	9P D-SUB SOCKET	AKP1240
CN9452	CONNECTOR	CKS3826

G FRONT ASSY (AWZ6952)

SEMICONDUCTORS

D9509-D9511,D9517,D9518	UDZS9R1(B)

COILS AND FILTERS

L9503,L9504	LCTAW1R0J2520

CAPACITORS

C9505,C9506	CKSRYB103K50
C9504	CKSRYB104K16
C9507-C9510	CKSRYB105K10
C9503	CKSRYB473K16
C9516	CKSRYF104Z16
C9515,C9523,C9534-C9536	DCH1165

RESISTORS

R9504,R9507,R9508	RS1/16S75R0F
Other Resistors	RS1/16S###J

OTHERS

JA9501	PIN JACK(3P)	AKB1303
CN9502	50P CONNECTER	AKM1201
JA9502	4P MINIDIN SOCKET(S)	AKP1238

H LED ASSY (AWZ6954)

SEMICONDUCTORS

Q9652	RN2902
D9654	SML-310MT
D9653	SML-311UT

CAPACITORS

C9651	CKSRYB103K50

RESISTORS

Other Resistors	RS1/16S###J

OTHERS

CN9651	7P PH CONNECTOR	AKM1293

6. ADJUSTMENT

1. At shipment, the unit is adjusted to its best conditions. Normally, it is not necessary to readjust even if an assembly is replaced. If the adjustment is shifted or if it becomes necessary to readjust because of part replacement, etc., perform the adjustment as described below.
2. Any value changed in Service/Factory mode will be stored in memory as soon as it is changed. Before readjustment, take note of the original values for reference in case you need to restore the original settings.
3. Use a stable AC power supply.

6.1 HOW TO ENTER SERVICE FACTORY MODE

■ Refer to the technical document (Service Know-How).

6.2 POSSIBLE CASES WHERE READJUSTMENT IS REQUIRED

■ When any of the following assemblies is replaced

POWER SUPPLY Unit	No adjustment required
AV BOARD Assy	No adjustment required
MR MAIN BOARD Assy	No adjustment required
PC Card Unit	No adjustment required
TUNER Board Assy	No adjustment required
Other assemblies	No adjustment required

■ When any part in the following assemblies is replaced

POWER SUPPLY Unit	The assembly must be replaced as a unit, and no part replacement is allowed.
AV BOARD Assy	If the front end (U7501) is replaced, adjustment is required.
MR MAIN BOARD Assy	The assembly must be replaced as a unit, and no part replacement is allowed.
PC CARD Unit	The assembly must be replaced as a unit, and no part replacement is allowed.
TUNER Board Assy	The assembly must be replaced as a unit, and no part replacement is allowed.
Other assemblies	No adjustment required

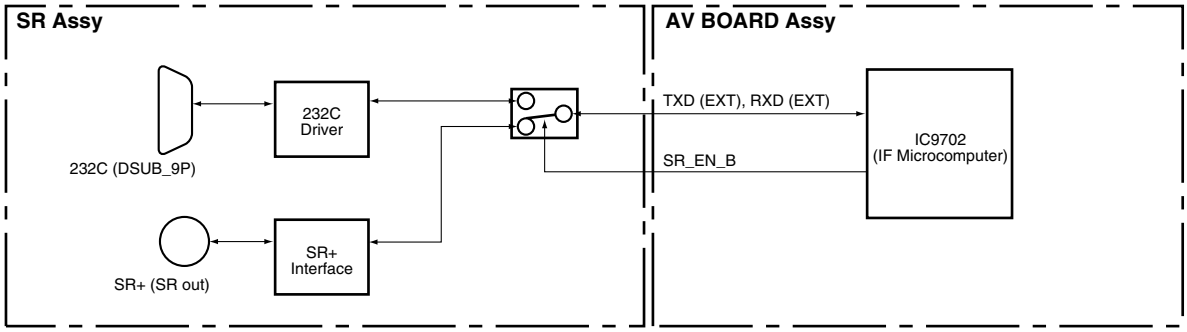
■ Adjustment items

① AFC Adjustment
② RF-AGC Adjustment
③ Video Level Adjustment

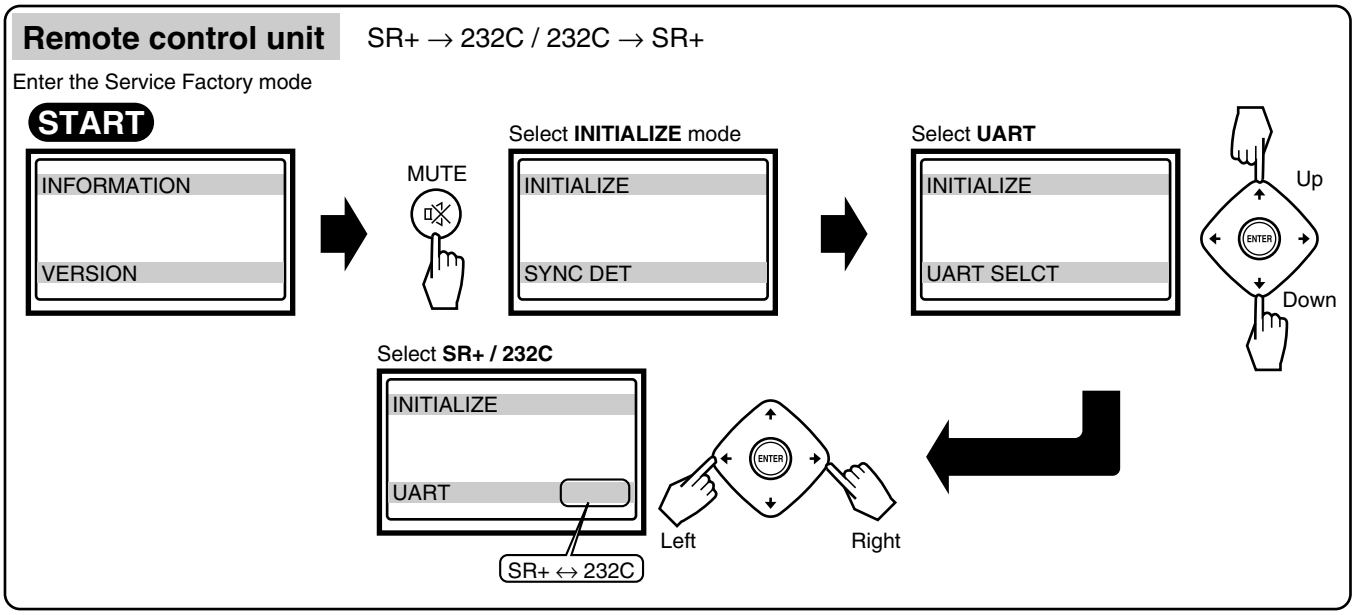
6.3 USING RS-232C COMMANDS

For the PDP-435HD and PDP-505HD series Plasma Displays, the circuitry is structured as shown in the diagram below to support the SR+ system. Controlling with either the SR+ system or RS-232C commands can be selected. As the SR+ system is selected at shipment, to control with RS-232C commands in servicing it is necessary to switch the paths. After servicing, be sure to return the setting to the SR+ system.

● Rough diagram of switching between SR+ and RS-232C



● How to switch from SR+ to RS-232C

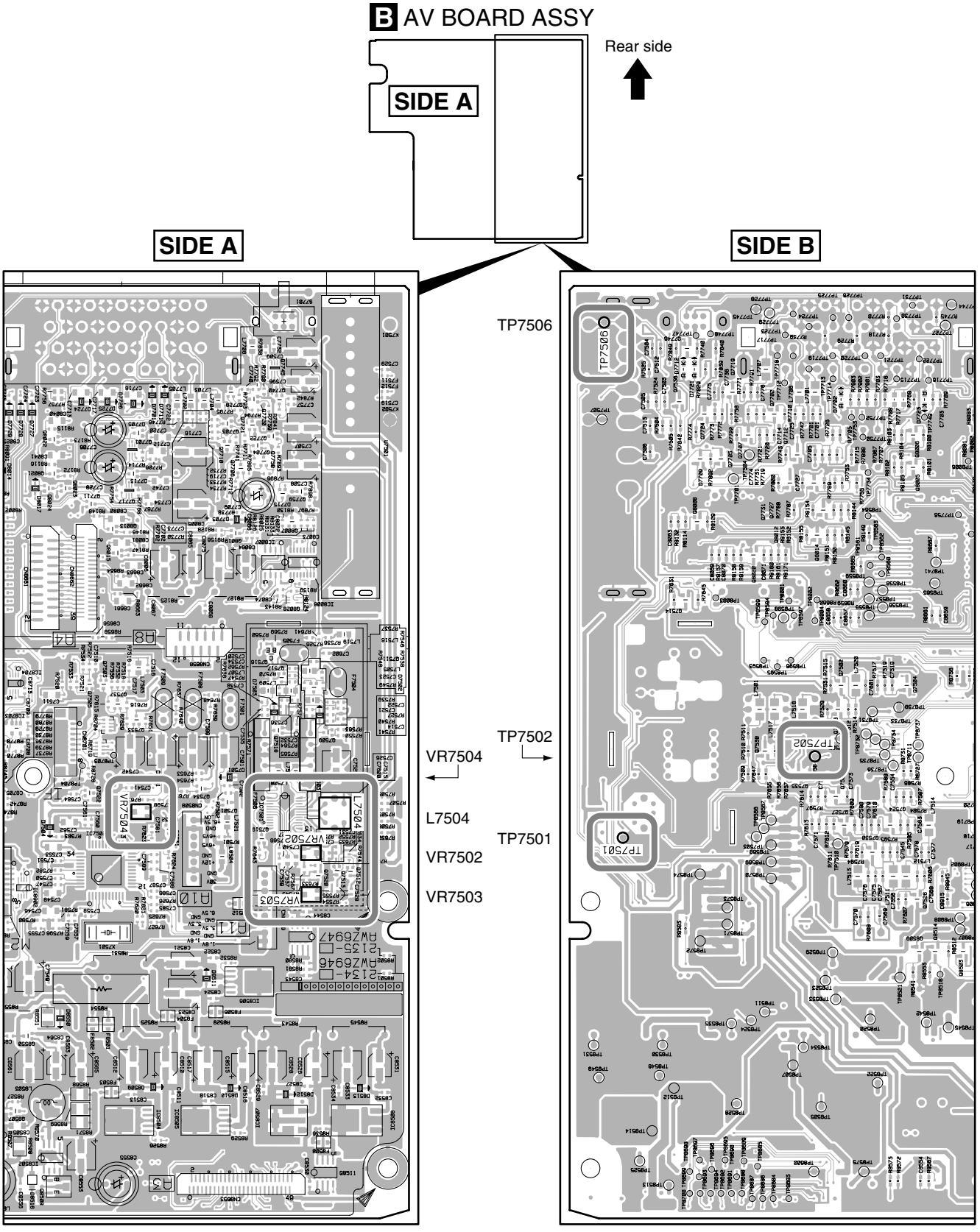


Tips: How to change the SR+/RS-232C setting without entering Service Factory mode
Hold the **VOLUME** ◿+ or ◿– key on the remote control unit pressed for 3-10 seconds during Standby mode.
Then within 3 seconds after the key is released, hold the **2-screen** ◑ key on the remote control unit pressed for 3-10 seconds.
Then within 3 seconds after the key is released, use the **SET** key on the remote control unit to set to RS-232C (the baud rate last selected is chosen) or the **HOME MENU** key to set to SR+.

6.4 ADJUSTMENT ITEMS

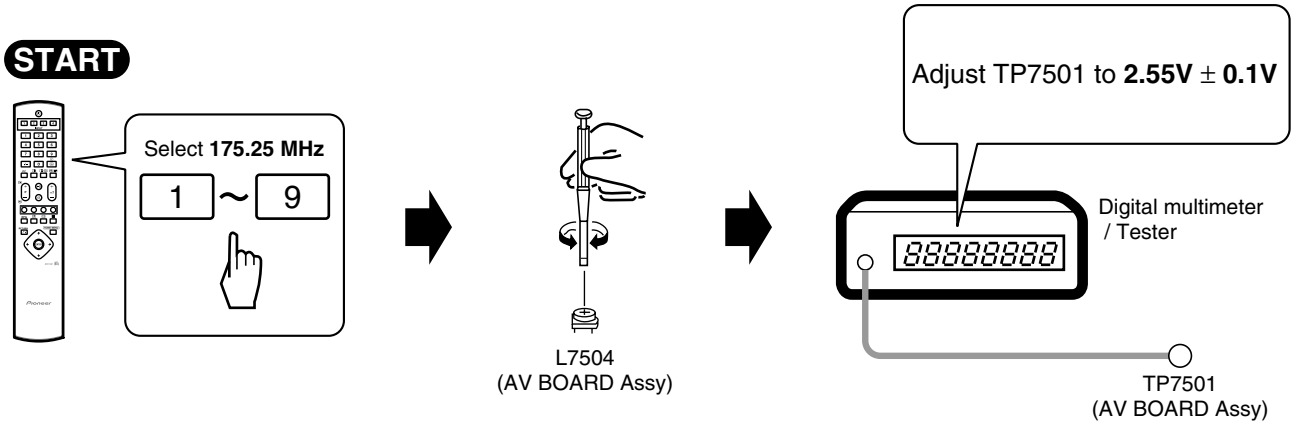
If readjustment is necessary because of adjustment error at shipment, perform adjustments as shown below.

● **Adjustment Points**



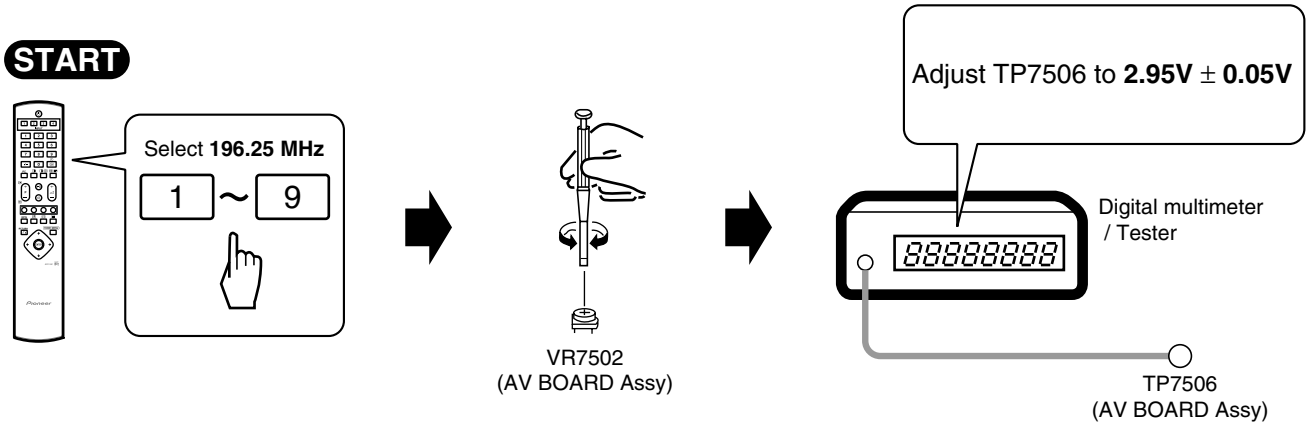
① AFC Adjustment

Equipment : SG, Digital mutimeter / Tester
Condition : Input RF level 75dBμV
PAL-B/G
White bar 100%



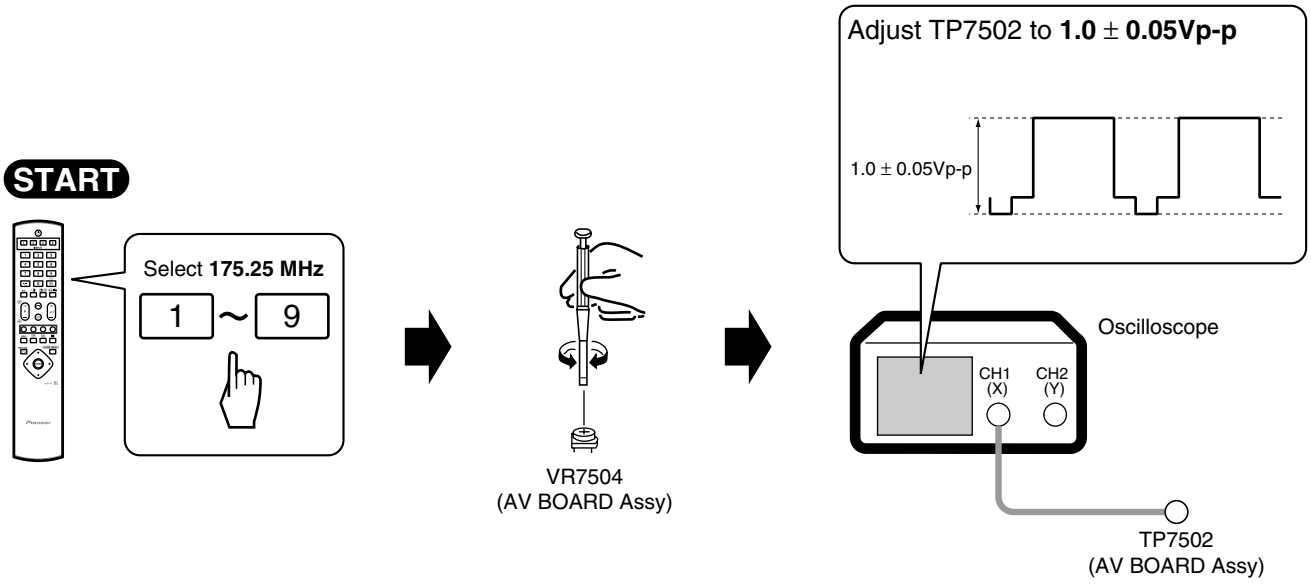
② RF-AGC Adjustment

Equipment : SG, Digital mutimeter / Tester
Condition : Input RF level 64dBμV ± 1dB
PAL-B/G
Multiburst



③ Video Level Adjustment

Equipment : SG
Condition : Input RF level 75dBμV
PAL-B/G
White bar 100%

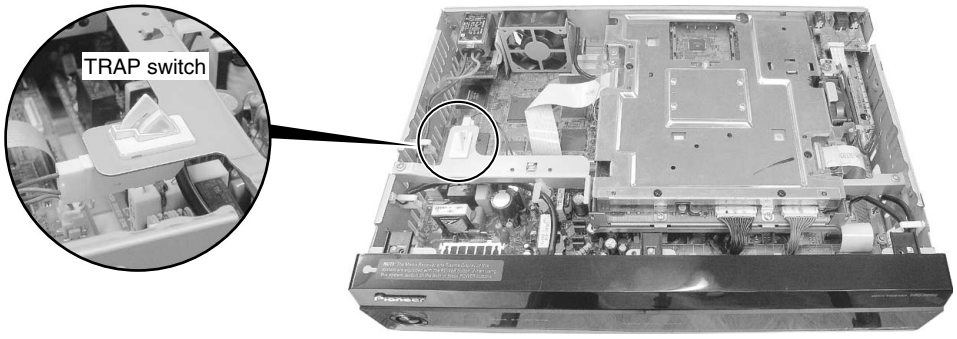


6.5 TRAP SWITCH

● Outline and Notes

For video data transmission from the Media Receiver to the PDP-435HD and PDP-505HD-series Plasma Displays, digital signals are used. Therefore, this unit adopts the HDCP (High-bandwidth Digital Content Protection) system for copyright protection. This unit is also provided with a detection switch (TRAP switch) that will prohibit the unit from being turned on again "if the upper plate of the unit is accidentally opened," in order to prevent the panel technology from being leaked out.

The TRAP switch is disabled while the unit is turned off.
When performing internal diagnosis of the PDP, fix the switch to the OFF position using adhesive tape before turning on the unit. After servicing, be sure to remove the adhesive tape.



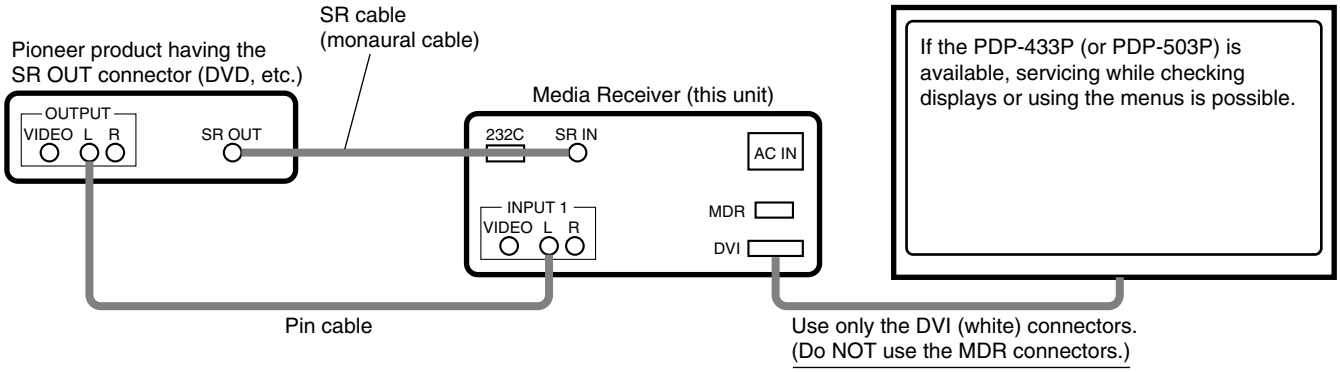
6.6 SERVICING USING ONLY THE MEDIA RECEIVER

For servicing of the PDP-435HD and PDP-505HD-series Plasma Display using only the Media Receiver, the following two methods can be used:

● Remote controlling using SR connections (Except PDP-R05FE)

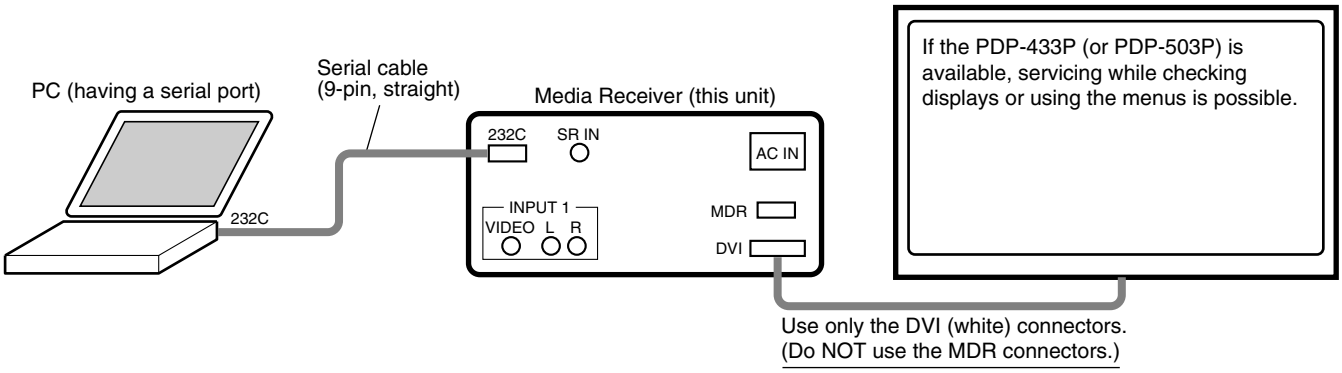
About connections

- Connect the SR OUT connector of a Pioneer product having that connector (a DVD in the following example) and the SR IN connector of the Media Receiver, using the SR cable. As the remote control sensor is not provided with the Media Receiver, this connection is required for using the remote control unit if the panel is not available. In this case, aim the remote control unit at the remote control sensor of the device (DVD in this case).
- Connect either the audio or the video output of the device (DVD in the example) and the corresponding audio or video input of the Media Receiver, using a cable with phono plugs. This connection is required in order to use ground in common with the SR cable, because with the SR cable connection the ground connection for signal reference is not available. In the example, the audio L channel is used, but the audio R channel or video can be used instead.
- If the plasma display for a previous model, such as the PDP-433P or PDP-503P, is available, servicing while checking displays or using the menus is possible. For this, connect only the DVI connectors (white) of the Media Receiver and the plasma display. The MDR connector of the Media Receiver must not be used, even though it has the same shape and number of pins, because signals assigned to the connectors differ. Using the MDR connector may damage the unit.



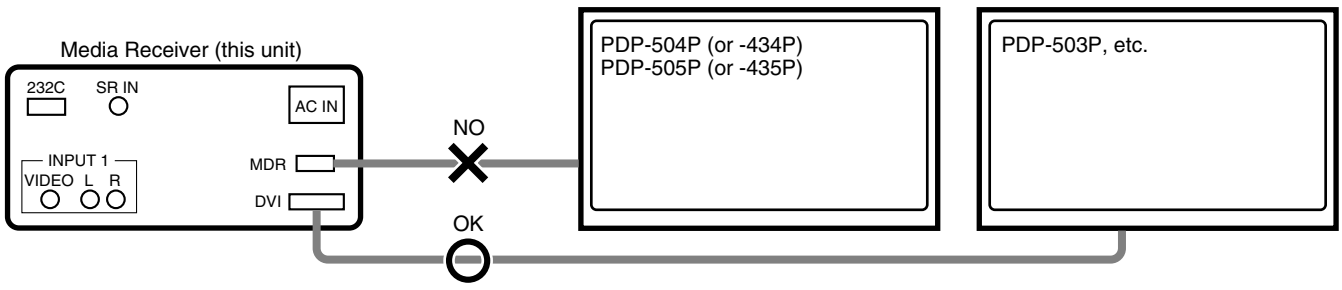
● RS-232C control using a PC

In this case the setting is RS-232C 38400bps, and the setting of "6.3. USING RS-232C COMMANDS" is not related.
Please set baud rate of PC in 38400bps.
For connection with the PC, use a straight cable.



● Note on connection

If the MDR connector of the PDP-434HD or -504HD-series is used, it is considered that the PDP-434P (or -504P) is connected, and the Media Receiver operates on such precondition, **which may result in a failure of the Media Receiver. Be sure not to connect to the MDR connector.** (Do NOT use the MDR connector when servicing the Media Receiver alone.)



6.7 SERVICE FACTORY MODE

To operate in Service Factory mode, use the supplied remote control unit.

How to enter Service Factory Mode

Prease refer to the technical documentation (Service Know-How). same as

Operation in Service Factory mode

● Functions whose settings are set to OFF

The settings for the following functions are set to OFF when Service Factory mode is entered (including when the "FAY" command is received):

- Two-screen operations (input function set on the main side is selected)
- P ZOOM
- STILL
- Detection of the TRAP switch (The log in the EEPROM is retained.)

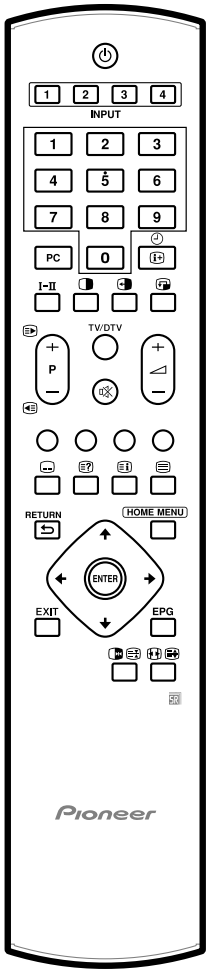
● User data

User data will be treated as follows:

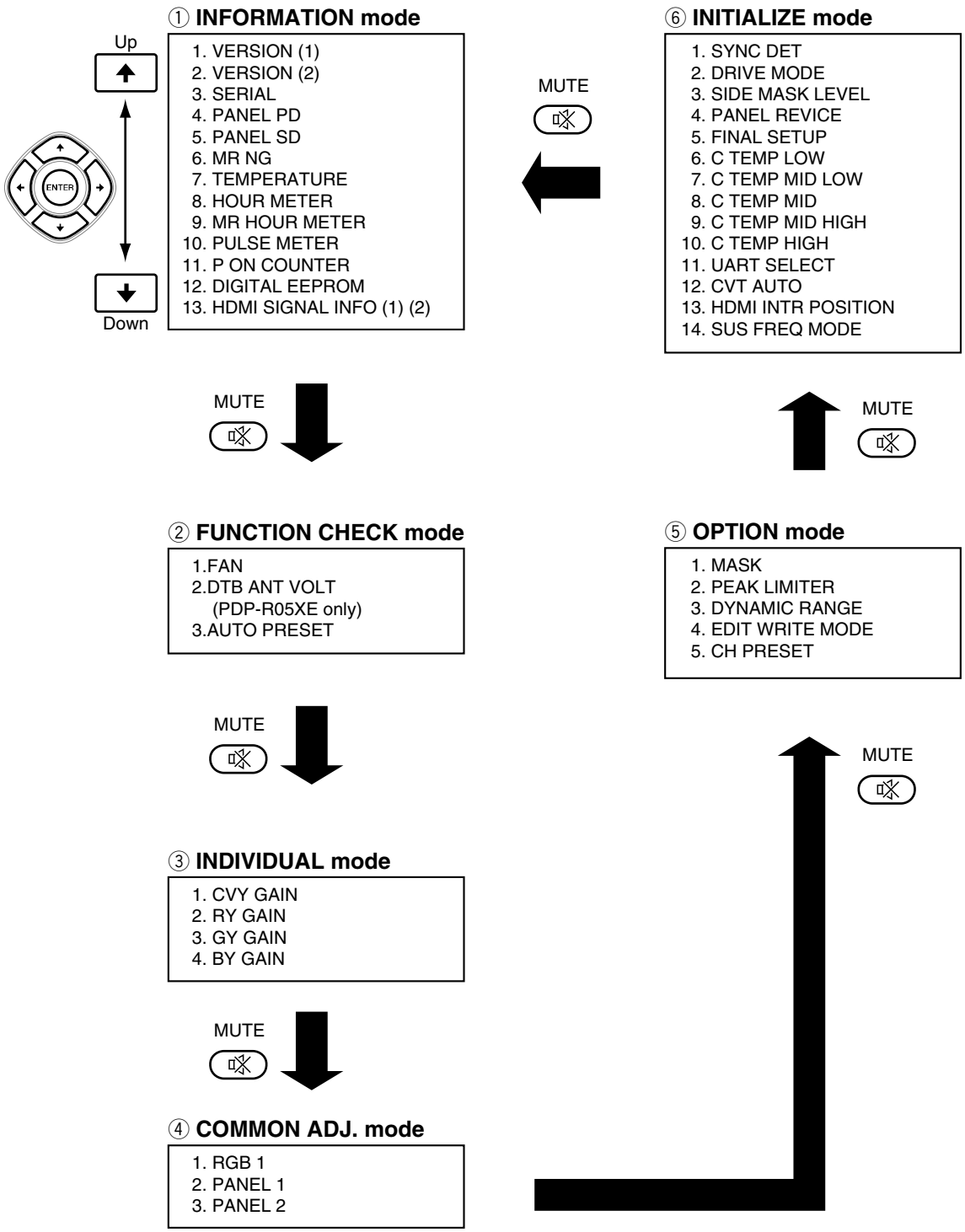
- User data on picture- and audio-quality adjustments are not reflected (data stored in memory will be retained).
- Data on screen position are reset to the default values (data stored in memory will be retained).

Remote control codes in Service Factory mode

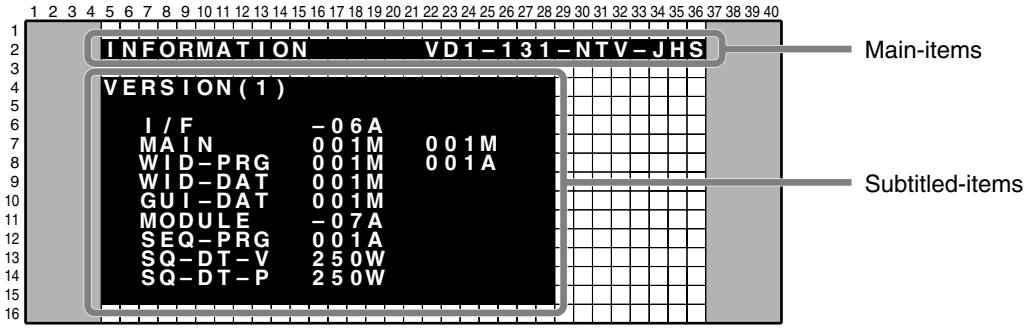
SR Function	Main Function	Remarks
Muting	Switching the main items	Shifting to the next main item
DOWN	Switching the subtitled items	Shifting downward to the next subtitled item
UP	Switching the subtitled items	Shifting upward to the next upper layer
LEFT	Increasing the adjustment value	Increasing the adjustment value
RIGHT	Decreasing the adjustment value	Decreasing the adjustment value
SET	Switching 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
CH+	Increasing the channel number	Advancing a preset channel (effective when Function is set to TV)
CH-	Decreasing the channel number	Turning a preset channel backward (effective when Function is set to TV)
Numeric keys	Function: TV	Function: TV (previously selected channel number is selected)
POWER	Power OFF	Turning the power off
FACTORY	Factory OFF	Turning Service Factory mode off
MENU	Menu ON	Turning Service Factory mode off and Menu mode on



Changes of the Service Factory menus

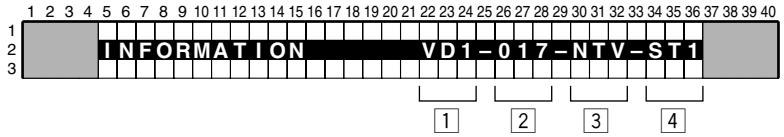


Indications in Service Factory mode



Main-item indications

Four parameters are displayed:



1 Input function

Input Functions	On-Screen Display
INPUT1	VD1
Analog	AIR
DTV	ARD
PC	PC

2 SIG mode and screen size

Note: See SIG-Mode Tables. (See next page.)

3 Color system and signal type

Color System and Signal Type		On-Screen Display
NTSC	Composite input/ S-connector input	NTV
PAL		PLV
SECAM		SCV
4.43NTSC		4NV
BLACK/WHITE		BWV
Y / CB / CR		CBR
Y / PB / PR		PBR
RGB		RGB
Digital video signal		DIG

4 Option (Destination, etc.)

Options	On-Screen Display
Advanced : PDP-R05XE	EHS
Standard : PDP-R05E	ETS
Basic : PDP-R05FE	EBS

● SIG-Mode Table

The signal mode is displayed in three characters:
First character: Resolution of the input signal (numerics for the video signals, and alphabetics for the PC signals)
Second character: Grouping of the V frequencies

SIG-Mode table for video signals (resolutions and V frequencies)

SIG-Mode	Signal Type	Vertical Frequency fv (Hz)	Horizontal Frequency fh (kHz)
13*	SDTV • 525i	60.000	15.750
21*	SDTV • 625i	50.000	15.625
33*	SDTV • 525p	60.000	31.500
41*	HDTV • 1125i	50.000	28.125
43*		60.000	33.750
51*	SDTV • 625p	50.000	31.250
61*	HDTV • 750p	50.000	37.500
63*		60.000	45.000

SIG-Mode table for PC signals (resolutions and V frequencies)

SIG-Mode	Signal Type	Vertical Frequency fv (Hz)	Horizontal Frequency fh (kHz)
A2*	720 × 400	56.000	24.825
A5*		70.087	31.469
A8*		85.050	37.861
B3*	640 × 480	59.940	31.469
B4*		66.666	35.000
B6*		72.809	37.861
B7*		75.000	37.500
B8*		85.000	43.300
C3*	852 × 480	60.000	31.680
D2*	800 × 600	56.250	35.1556
D3*		60.317	37.879
D6*		72.188	48.077
D7*		75.000	46.875
D8*		85.061	53.674
E7*	832 × 624	74.550	49.725
F3*	1024 × 768	60.004	48.363
F5*		70.069	56.476
F7*		75.029	60.023
F8*		84.997	68.677
G2*	1280 × 768	56.250	45.113
G3*		59.833	47.986
G5*		70.000	56.137

2nd Character	Reference V Frequency	Remarks
–	–	No signal
1	50	
2	56	
3	60	
4	66	
5	70	
6	For interpolation of 72-Hz area	For distinguishing between 70-Hz or 75-Hz area
7	75	
8	85	
9 (spare)	–	
?	–	Out of range

Third character: Selection of the screen size by the user is displayed.
(○: available, ×: not available)

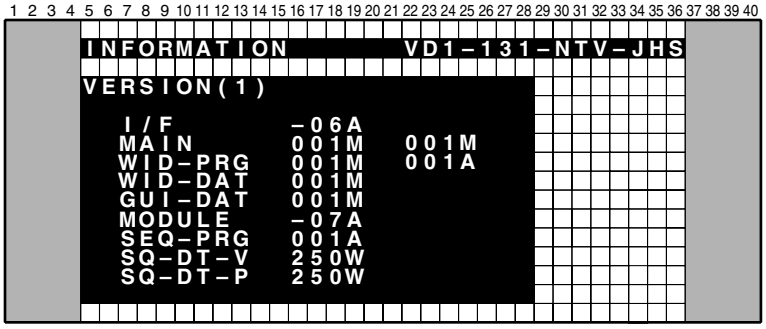
3rd Character	Description on GUI	VIDEO	PC	Remarks
0	DOT BY DOT	×	○	
1	4 : 3	○	○	
2	FULL (FULL1)	○	○	
3	ZOOM	○	×	
4	CINEMA	○	×	
5	WIDE	○	×	Indude WIDE-HD
6	FULL 14 : 9	○	×	
7	CINEMA 14 : 9	○	×	
8	FULL2	○	○	HDTV1035i
9	OVERSCAN	○	×	

① INFORMATION mode

● Operation items

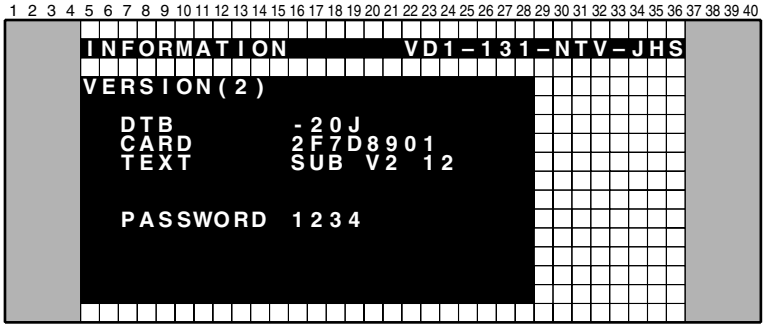
No.	Function / Display	Content
1	VERSION (1)	The flash memory versions for each device are displayed. (common part)
2	VERSION (2)	The flash memory versions for each device are displayed. (individual part)
3	SERIAL	For displaying the serial number of the product (not used)
4	PANEL PD	Power-down generated on the panel side and its time of occurrence are displayed.
5	PANEL SD	Shutdown generated on the panel side and its time of occurrence are displayed.
6	MR NG	Power-down and/or shutdown generated on the Media Receiver side and their/its time of occurrence are displayed.
7	TEMPERATURE	Information on temperature is displayed.
8	HOUR METER	Cumulative power-on time to the panel is displayed.
9	MR HOUR METER	Cumulative power-on time to the Media Receiver is displayed.
10	PULSE METER	The pulse meter value on the panel side is displayed.
11	P ON COUNTER	The number of times the power to the panel was turned on is displayed.
12	DIGITAL EEPROM	The status of the backup data for the module microcomputer is displayed.
13	HDMI SIGNAL INFO. (1) (2)	The file information of HDMI series are displayed.

1. VERSION (1)



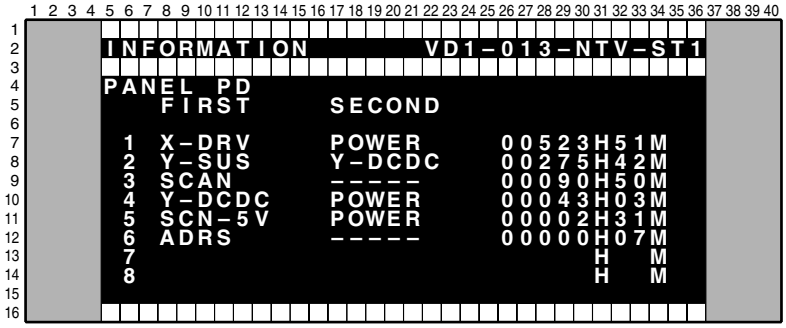
Flash memory of Device	On-Screen Display
User IF microcomputer (MR: IC8702)	I / F
Main microcomputer (MR: IC7207)	MAIN
Program for IC 3 (MR: IC7101)	WID–PRG
Enhanced data for IC 3 (MR: IC7101)	WID–DAT
GUI data for IC 3 (MR: IC7101)	GUI–DAT
Module microcomputer (for the PDP)	MODULE
Program for IC 4 (for the PDP)	SEQ–PRG
Sequence data for IC 4 Video	SQ–DT-V
Sequence data for IC 4 PC	SQ–DT-P

2. VERSION (2)



Device	Name Display	Version Display	Remarks
DTV Software Version	DTB	4 character	PDP-R05XE only
PC Card Software Version	CARD	8 character	Except PDP-R05FE
Teletext ucom Software Version	TEXT	60 character	
USER Password	PASSWORD	4 character	

4. PANEL PD

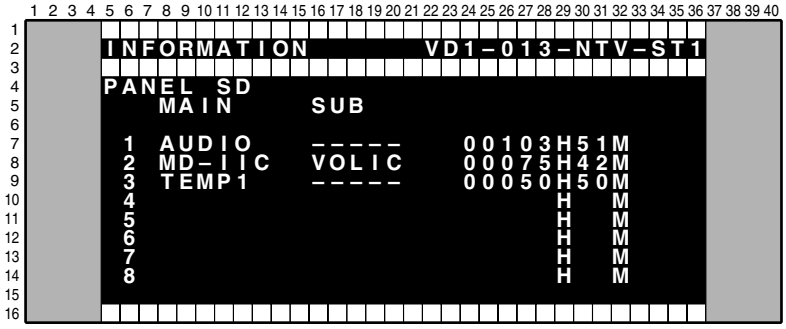


Power-down information only on the panel side is displayed.

• Panel power-down information

No.	Type of Power-down	On-Screen Display	No.	Type of Power-down	On-Screen Display
1	No corresponding item	- - - - -	8	Power-down of the address system	ADRS
2	Power-down of the main power supply system	POWER	9	Power-down of the X-DRIVE circuitry	X-DRV
3	Power-down of the scanning system	SCAN	A	Power-down of the X-DC/DC converter	X-DCDC
4	Power-down in the path between the scanning system and 5-V power supply	SCN-5V	B	Power-down of the X-SUS system	X-SUS
5	Power-down of the Y-Drive system	Y-DRV	C	Power-down of the driving IC power supply system	D-DCDC
6	Power-down of the Y-DC/DC converter	Y-DCDC	D	Power-down of the driving stopped	IC4 (IC5401)
7	Power-down of the Y-SUS system	Y-SUS	F	Power-down point unidentified	UNKNOWN

5. PANEL SD

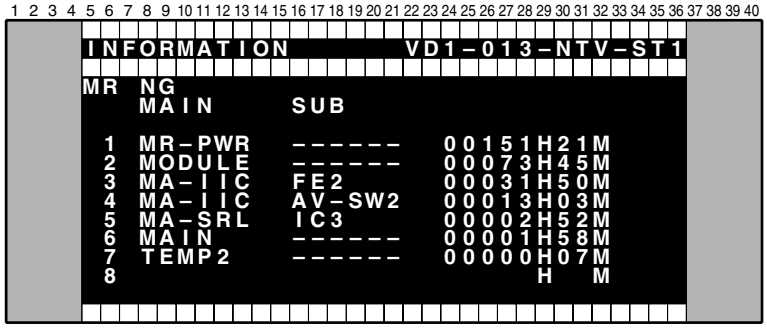


The shutdown log only on the panel side is displayed.

• Panel shutdown information

No.	Type of Shutdown	On-Screen Display (MAIN)	Remarks
1	Abnormality in IC 4 communication	IC4	
2	Abnormality in module microcomputer IIC communication	MD-IIC	Subcategories exist. (EROM4K : IC5206, EROM2K : IC402, VOLIC : IC3502)
3	Abnormality in RST2	RST2	
4	Abnormality in panel temperature	TEMP1	
5	Short-circuiting of the speakers	AUDIO	

6. MR NG



Information on power-down and shutdown of the Media Receiver side is displayed.

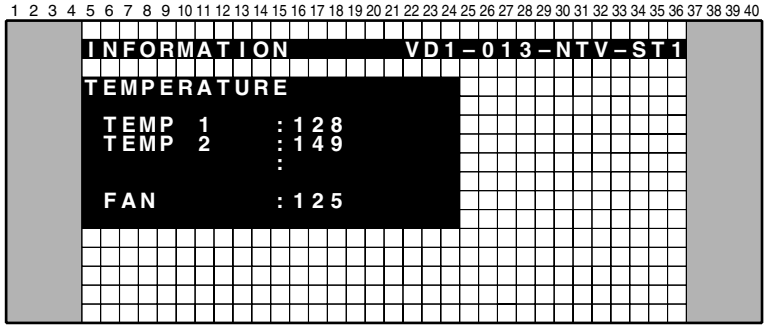
• Media Receiver NG information

No.	Type of Failure	On-Screen Display (MAIN)	Remarks
1	Abnormality in module microcomputer communication	MODULE	
2	Abnormality in 3-wire serial communication of the main microcomputer	MA-SRL	Subcategories exist.
3	Abnormality in main microcomputer IIC communication	MA-IIC	Subcategories exist.
4	Abnormality in main microcomputer communication	MAIN	
5	Abnormality in temperature of the Media Receiver	TEMP2	
6	Fan stopped.	FAN	
7	Abnormality in communication of the digital tuner	UART	Subcategories exist.
8	Abnormality in the ASIC power supply on the MR side	M-DCDC	

• Subcategory information

Type of Shutdown	Subcategory	Remarks
MA-SRL	IF microcomputer (IC8702), IC2 (IC7004), IC3 (IC7101)	
MA-IIC	MA-EEP (IC7205), IC1-M (IC6107), IC1-S (IC6255), HDMI1 (IC6801), HDMI2 (IC6881)*2, AD-M (IC6402), AD-S (IC6602), IC6 (IC6951), CCD (IC8903)*2, FE1 (U7501), FE2 (U7502)*2, AV-SW1 (IC8002), AV-SW2 (IC8005), TX-COM (IC8904)*3, MPX (IC7502)*3, TX-BSY(IC8904)*3, AV-EEP	*2 : U.S. model only *3 : Europe model and General area model
Interval UART Communication	PS/RST	No power, or reset status continued
	RETRY	The signal 0x02 (ready) has not been received.
	CD-COM	PC Card Module Communication
	CD-DEV	PC Card Module
	CD-RST	PC Card Reset NG

7. TEMPERATURE

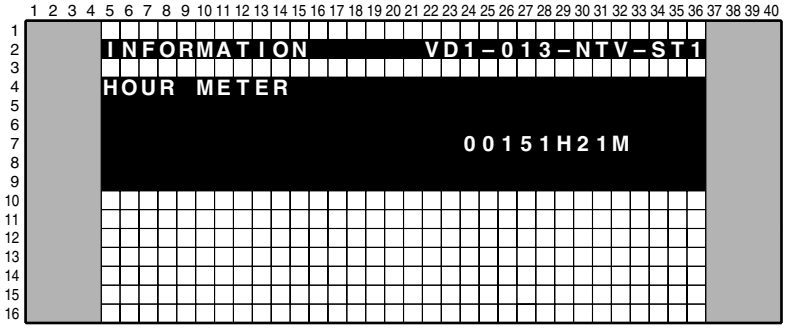


TEMP1: The value read from the temperature sensor built into the panel is displayed in the range of 000-255.
Note: Refer to the service manual of the panel.

TEMP2: The value read from the temperature sensor built into the Media Receiver is displayed in the range of 000-255. For reference, the approximate value for 60°C is 86 and for 35°C is 67.
Reference: When TEMP2 exceeds 100 (about 78°C), SD LED flash 11 times.

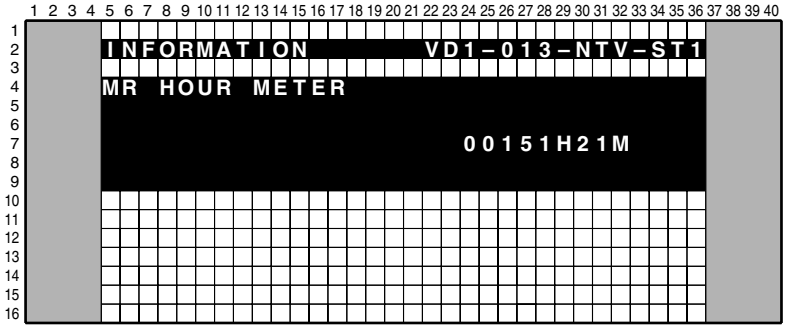
FAN: The value of the Fan output is displayed. At shipment, the output is controlled in 2 steps, and the value for strong output is set to about 131, and the value for weak output is set to about 93.

8. HOUR METER



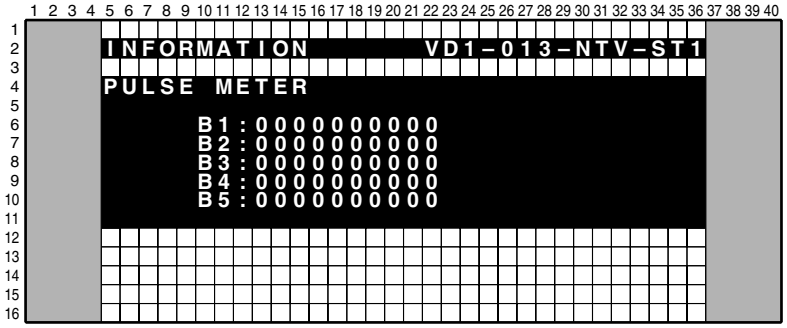
The cumulative power-on time of the panel is displayed.

9. MR HOUR METER



The cumulative power-on time of the Media Receiver is displayed.

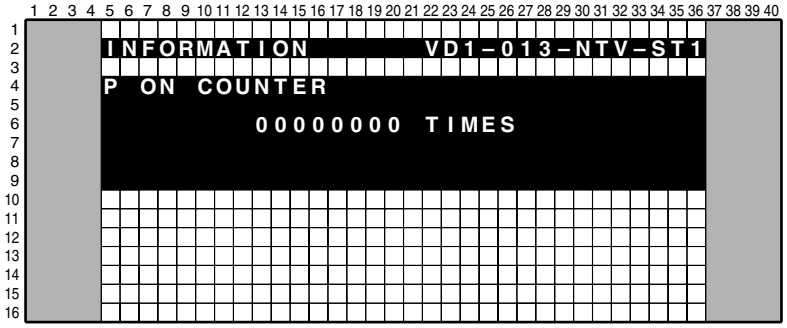
10. PULSE METER



The cumulative number of pulses of the panel is displayed.

Note : Dividing screen into sixteen times sixteen and counting five different locations on a screen. Each item, it's counted total 3840 pixels (for 50 inch) or 3072 pixels (for 43 inch) discharging. (1280/16 x 768/16 = 3840, 1204/16 x 768/16 = 3072)

11. P ON COUNTER

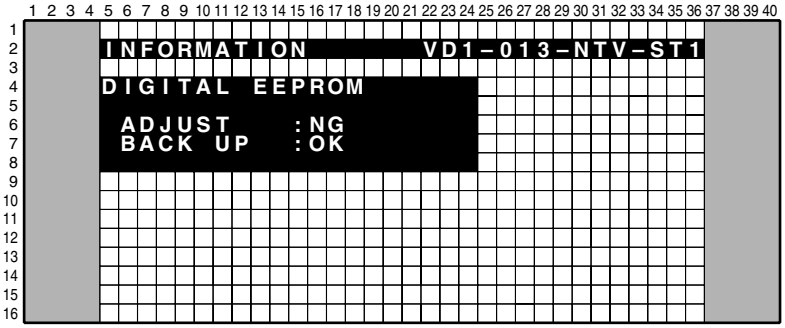


The cumulative number of times the panel was turned on is displayed.

12. DIGITAL EEPROM

When the DIGITAL Assy of the PDP is to be replaced, the adjustment values in it can be temporarily stored in the ROM then be written on the new Assy after replacement.

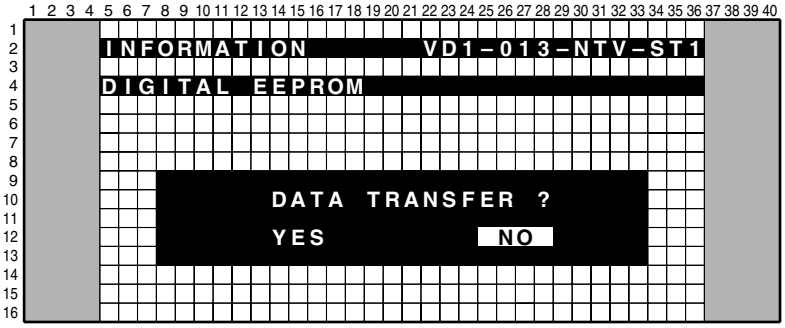
Whether adjustment has been made on the DIGITAL Assy of the PDP or not (i.e., in the state of a new service part), and whether the data on any adjustment values are retained in the backup ROM or not are displayed.



• Downloading the data from the backup ROM

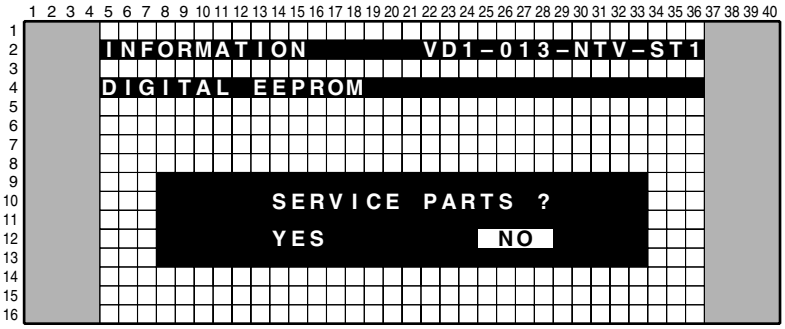
(This must be performed after the DIGITAL Assy is replaced.)

To download the data from the backup ROM, press the ENTER key while the above screen is displayed. The display changes as shown below. Move the cursor to YES then press the ENTER key. The data in the backup ROM are downloaded into the new Assy.

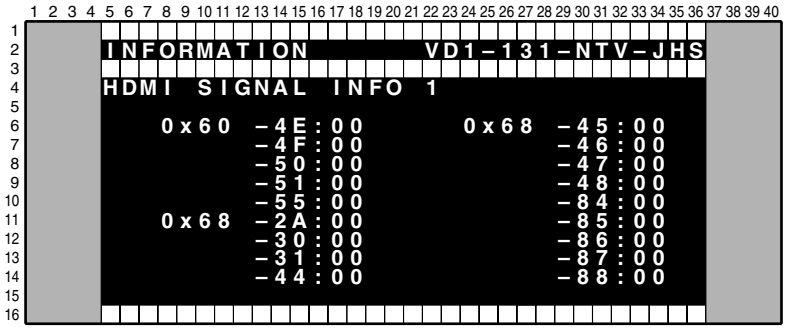


• Clearing the data in the ROM of the DIGITAL Assy

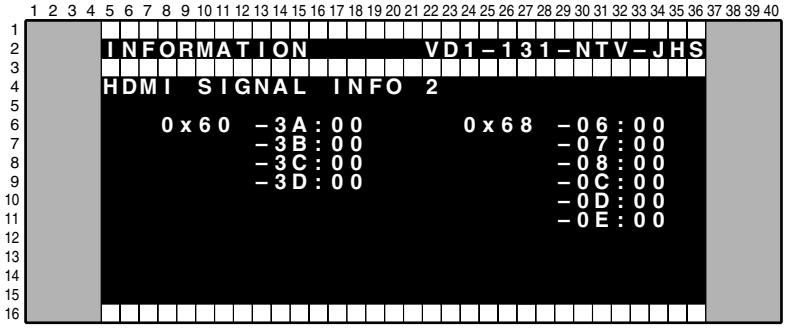
The display below is automatically displayed after either YES or NO is selected on the display shown above. Move the cursor to YES then press the ENTER key. Then all data on adjustment values in the ROM of the DIGITAL Assy are cleared.



13. HDMI SIGNAL INFO

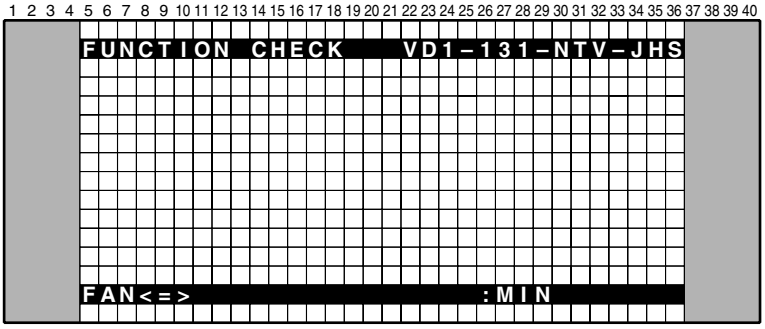


Technical examination display
(Reading status registers in HDMI receiver and displaying them by HEX value.)



For technical discussion

② FUNCTION CHECK



No last memory in this menu

No.	Display	Detail	Remarks	232C Command
1	FAN <=>	MIN ⇔ CNT ⇔ MAX		*1
2	DTB ANT VOLT <=>	OV ⇔ 5V		BAV + S00 : 0V / S02 : 5V
3	AUTO PRESET <=>	NO ⇔ YES		

2.1 FAN

Controls FAN speed by force. (MIN : STOP, CNT : Follows movement specifications, MAX : High)
Temp sensor is working only displaying data value in service factory mode.
After getting off service factory mode, this function is set to normal automatically.

2.2 DTB ANT VOLT (PDP-R05XE only)

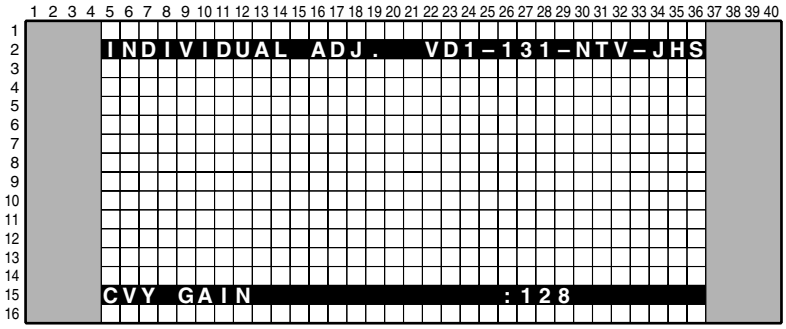
Change the power supply voltage for the digital tuner antenna.
This setting item is not recorded in the memory. Return in the user setting when finish the factory mode.

2.3 AUTO PRESET

Make the frequency range narrow for shipment check, and auto preset.

③ INDIVIDUAL ADJ. mode

AV Board

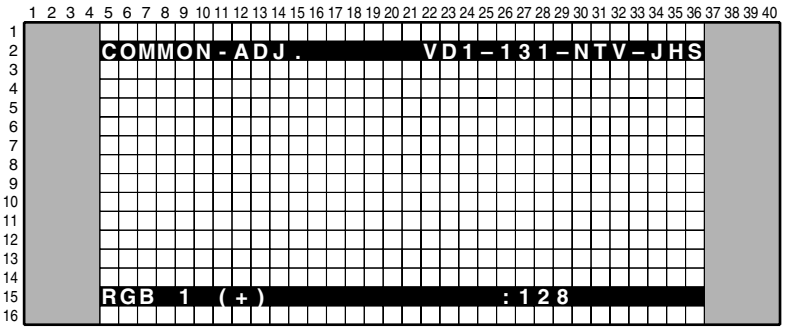


- Each signal course output from AV Board is revised to become equally.
- The main course and the assistant course are managed individually.
- At the time of signal input to go through IC1 side, AD side menu is done graydown by the kind of the signal.
  At the time of signal input to go through AD side, IC1 side menu is done graydown of alike.
  And at the time of digital signal input, all menu is done graydown.

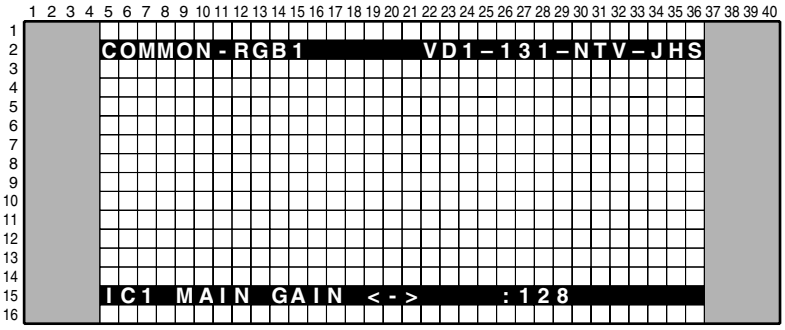
No.	OSD Display	Function	Adjustment range	Initial value	Control device
1	CVY GAIN <=>	Input GAIN adjustment of CV/YC series	064-191	128	IC1 0x08B D6-D0
2	RY GAIN <=>	Input GAIN adjustment of component (Cr)/RGB(R) series	000-255	128	AD 0x08B D7-D0
3	GY GAIN <=>	Input AIN adjustment of component (Y)/RGB(G) series	000-255	128	AD 0x08B D7-D0
4	BY GAIN <=>	Input GAIN adjustmentof component (Cb)/RGB(B) series	000-255	128	AD 0x08B D7-D0

④ COMMON ADJ. mode

RGB1

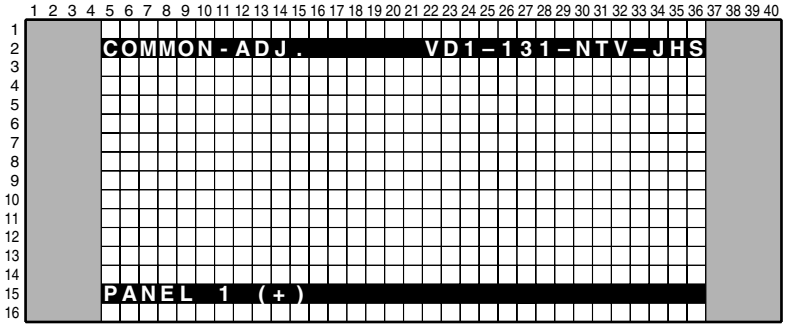


- Adjustment of the course dispersion
- Adjustment the input every course so that IC1 and the AD-PLL output make it equal in Main Board.



No.	OSD Display	Function	Adjustment range	Initial value	Control device
1	IC1 MAIN GAIN <=>	MAIN side IC1 input-GAIN adjustment	064-191	128	IC1(M) 0x08B D6-D0
2	IC1 MAIN OFFSET <=>	MAIN side IC1 input-OFFSET adjustment	064-191	128	IC1(M) 0x08C D6-D0
3	AD MAIN R GAIN <=>	MAIN side AD/PLL input-R GAIN adjustment	000-255	128	A/D(M) 0x08 D7-D0
4	AD MAIN G GAIN <=>	MAIN side AD/PLL input-G GAIN adjustment	000-255	128	A/D(M) 0x09 D7-D0
5	AD MAIN B GAIN <=>	MAIN side AD/PLL input-B GAIN adjustment	000-255	128	A/D(M) 0x0A D7-D0
6	AD MAIN R OFFSET <=>	MAIN side AD/PLL input-R OFFSET adjustment	064-191	128	A/D(M) 0x0B D7-D1
7	AD MAIN G OFFSET <=>	MAIN side AD/PLL input-G OFFSET adjustment	064-191	128	A/D(M) 0x0C D7-D1
8	AD MAIN B OFFSET <=>	MAIN side AD/PLL input-B OFFSET adjustment	064-191	128	A/D(M) 0x0D D7-D1
9	IC1 SUB GAIN <=>	SUB side IC1 input-GAIN adjustment	064-191	128	IC1(S) 0x08B D6-D0
10	IC1 SUB OFFSET <=>	SUB side IC1 input-OFFSET adjustment	064-191	128	IC1(S) 0x08C D6-D0
11	AD SUB R GAIN <=>	SUB side AD/PLL input-R GAIN adjustment	000-255	128	A/D(S) 0x08 D7-D0
12	AD SUB G GAIN <=>	SUB side AD/PLL input-G GAIN adjustment	000-255	128	A/D(S) 0x09 D7-D0
13	AD SUB B GAIN <=>	SUB side AD/PLL input-B GAIN adjustment	000-255	128	A/D(S) 0x0A D7-D0
14	AD SUB R OFFSET <=>	SUB side AD/PLL input-R OFFSET adjustment	064-191	128	A/D(S) 0x0B D7-D1
15	AD SUB G OFFSET <=>	SUB side AD/PLL input-G OFFSET adjustment	064-191	128	A/D(S) 0x0C D7-D1
16	AD SUB B OFFSET <=>	SUB side AD/PLL input-B OFFSET adjustment	064-191	128	A/D(S) 0x0D D7-D1

PANEL1

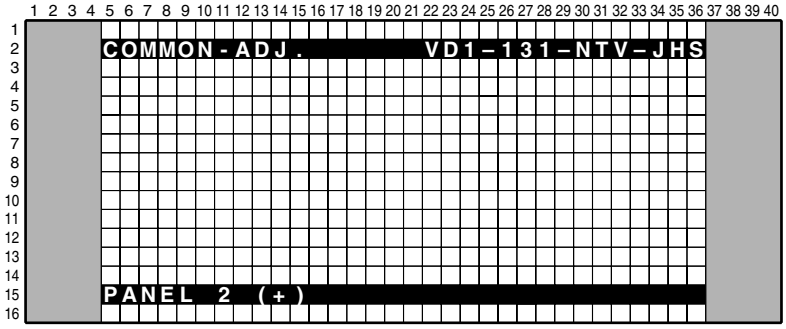


• related 232C command
XU1/XU2/XD1/XD2
YU1/YU2/YD1/YD2/YD3/YD4
VSU/VOF
GAJ/GA2

• Adjust Drive/Power supply series

No.	OSD Display	Function	Adjustment range	Corresponding RS-232C Command
1	X-SUS U1 <=>	X-SUS wave form Adjustment U1	124-132	XU1***
2	X-SUS U2 <=>	X-SUS wave form Adjustment U2	124-132	XU2***
3	X-SUS D1 <=>	X-SUS wave form Adjustment D1	124-132	XD1***
4	X-SUS D2 <=>	X-SUS wave form Adjustment D2	124-132	XD2***
5	Y-SUS U1 <=>	Y-SUS wave form Adjustment U1	124-132	YU1***
6	Y-SUS U2 <=>	Y-SUS wave form Adjustment U2	124-132	YU2***
7	Y-SUS D1 <=>	Y-SUS wave form Adjustment D1	124-132	YD1***
8	Y-SUS D2 <=>	Y-SUS wave form Adjustment D2	124-132	YD2***
9	Y-SUS D3 <=>	Y-SUS wave form Adjustment D3	124-132	YD3***
10	Y-SUS D4 <=>	Y-SUS wave form Adjustment D4	124-132	YD4***
11	VLT-SUS <=>	Vsus voltage adjustment	000-255	VSU***
12	VLT-OFS <=>	Vofs voltage adjustment	000-255	VOF***

PANEL2

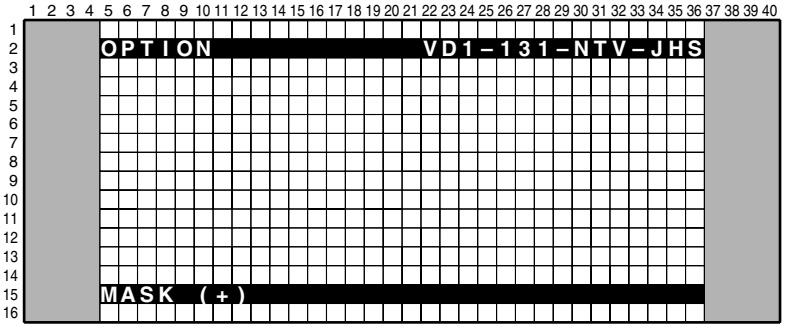


• related 232C command
PMC/PRH/PGH/PBH
PMB/PRL/PGL/PBL
ABL
GPW
GAJ

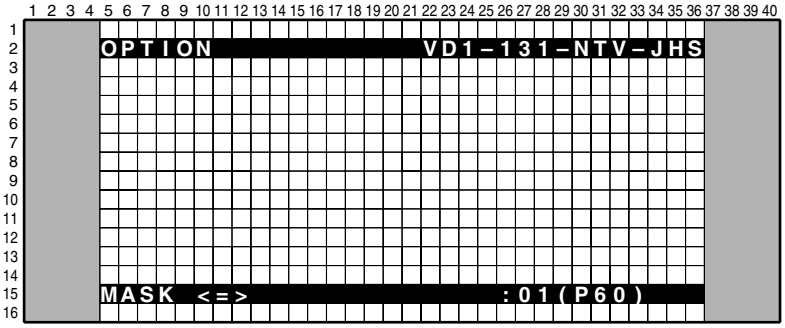
• Panel white balance, indication of ABL value and adjustment
• About < PANEL CONTRAST > and < PANEL BRIGHTNESS >, it is assumed that can adjust it when connected the fifth generation panel. It is done graydown when connected the fourth generation panel, and only indication of a value.

No.	OSD Display	Function	Adjustment range	Table indication	Corresponding RS-232C Command
1	PANEL CONTRAST <=>	Panel WB Adjustment - Main contrast	000-511	---	PMC***
2	PANEL R HIGH <=>	Panel WB Adjustment - R highlight	000-511	PT1/PT2/PT3	PRH***
3	PANEL G HIGH <=>	Panel WB Adjustment - G highlight	000-511	PT1/PT2/PT3	PGH***
4	PANEL B HIGH <=>	Panel WB Adjustment - B highlight	000-511	PT1/PT2/PT3	PBH***
5	PANEL BRIGHTNESS <=>	Panel WB Adjustment - Main Brightness	000-999	---	PMB***
6	PANEL R LOW <=>	Panel WB Adjustment - R low light	000-999	PT1/PT2/PT3	PRL***
7	PANEL G LOW <=>	Panel WB Adjustment - G low light	000-999	PT1/PT2/PT3	PGL***
8	PANEL B LOW <=>	Panel WB Adjustment - B low light	000-999	PT1/PT2/PT3	PBL***
9	ABL LEVEL <=>	ABL Adjustment	000-255	AB1/AB2/AB3	ABL***

⑤ OPTION mode



No.	Function/Display	Content	Corresponding RS-232C Command
1	MASK (+)	Selecting the pattern mask of IC4	MSK
2	PEAK LIMITTER	ON ⇔ OFF	PLT
3	DYNAMIC RANGE	ON ⇔ OFF	DYR
4	EDID WRITE MODE	DISABLE ⇔ ENABLE	EPA
5	CH PRESET	FACTORY ⇔ USER	



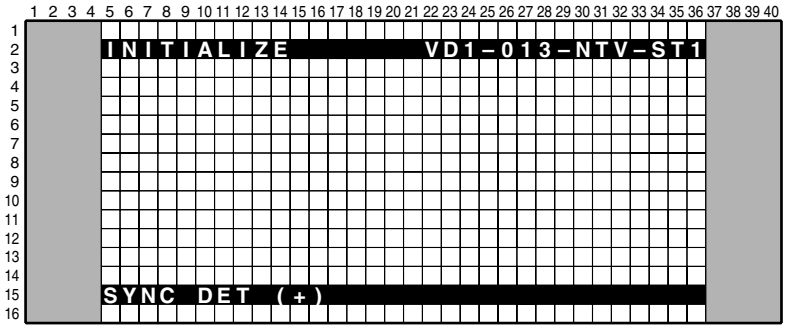
The mask frequency can be cyclically changed (see the table below) by pressing the left or right cursor key. The mask pattern can be cyclically changed by pressing the up or down cursor key. Approximately 2 seconds after either the up or down cursor key is pressed, the mask screen will appear.

• Frequency selection while the mask is displayed

No.	Function/Display	Content	Corresponding RS-232C Command
0	V50	Video 50-Hz sequence	F50
1	V60 (initial value)	Video 60-Hz sequence	F60
2	P60	PC 60-Hz sequence	F61
3	P70	PC 70-Hz sequence	F70
4	V72	Video 72-Hz sequence	F72
5	V75	Video 75-Hz sequence	F75

⑥ INITIALIZE mode

(For managing switching of the initial settings and destination setting)



No.	Function/Display	Content
1	SYNC DET (+)	
2	DRIVE MODE (+)	
3	SIDE MASK LEVEL (+)	
4	PANEL REVICE (+)	
5	FINAL SETUP (+)	
6	C TEMP LOW (+)	
7	C TEMP MID LOW (+)	
8	C TEMP MID (+)	
9	C TEMP MID HIGH (+)	
10	C TEMP HIGH (+)	
11	UART SELECT <=>	1200-232C ⇔ ••• ⇔ 38400-232C ⇔ 9600-SR+
12	CVT AUTO <=>	DISABLE ⇔ ENABLE (For Factory use)
13	HDMI INTR POSITION(+)	
14	SUS FREQ MODE<=>	000⇔ ••• ⇔ 007

- When there is a modification log, if the “Display” key is held pressed for at least 3 seconds while the above display is displayed, the modification log will be cleared.

• UART SELCT

Option No.	Function / Display	Operation / Control	Remarks
1 (initial setting)	9600-SR+	To set to SR+ (9600 BPS)	For switching external communication between RS-232C and SR+
2	1200-232C	To set to RS-232C (1200 BPS)	
3	2400-232C	To set to RS-232C (2400 BPS)	
4	4800-232C	To set to RS-232C (4800 BPS)	
5	9600-232C	To set to RS-232C (9600 BPS)	
6	19200-232C	To set to RS-232C (19200 BPS)	
7	38400-232C	To set to RS-232C (38400 BPS)	

Tips: How to change the SR+/RS-232C setting without entering Service Factory mode
Refer to "6.3 USING RS-232C COMMANDS".

6.8 LIST OF RS-232C COMMANDS

RS-232C commands can be used in Service Factory mode.
Before using RS-232C commands, it is necessary to change the factory presetting. See "6.3. USING RS-232C COMMANDS."

Command	Operation	Remarks
A		
ABL	Adjusting power consumption	
B		
BCP	Transmitting the backup data to the DIGITAL Assy	
BAVS00	Setting the power supply for the DTB antenna to 0 V	PDP-R05XE only
BAVS02	Setting the power supply for the DTB antenna to 5 V	PDP-R05XE only
BSL	Adjusting side mask B	
BYG	BY GAIN	
C		
CHM	Clearing the hour meter	
CNG	Clearing MR NG information	
CPC	Clearing the power-on counter	
CPD	Clearing power-down information	
CPM	Clearing the pulse meter	
CSD	Clearing shutdown information	
CTM	Clearing the modification log	This command is effective even during Standby mode.
D		
OSDS01	Turning on the on-screen display	While the OSDSOI command is in force, the duration of on-screen display is unlimited.
OSDS00	Turning off the on-screen display	On-screen display is prohibited.
DRF	Turning off the power for the drive system	
DRN	Turning on the power for the drive system	
DW*	Decreasing the adjustment value by *	*: 1-9, 0 (0 means 10), or F (making the adjustment value the minimum)
E		
EDWS00	Prohibiting writing of EDID data	
EDWS01	Permitting writing of EDID data	
F		
F50	Video 50-Hz sequence	
F60	Video 60-Hz sequence	
F61	PC 60-Hz sequence	
F70	PC 70-Hz sequence	
F72	Video 72-Hz sequence	
F75	Video 75-Hz sequence	
FAJ	Determining the adjustment values for the unit	
FAY	Turning Service Factory mode on	
FAN	Turning Service Factory mode off	The GUI equivalent to that usually displayed when the power is turned on is displayed.
FCSS00	Focus OFF	
FCSS01	Focus ON	
FST	Final set up	
G		The GET-group commands are effective at any time, including during Standby mode.
GA2	Obtaining the various adjustment values (Add Vrn to GAJ)	
GAJ	Obtaining the adjustment values for the panel	
GDI	Command to obtain Status	
GMM	Switching the gamma levels	Setting value: 000-007
GNG	Obtaining NG data of the MR	
GNM	Obtaining the serial No. of the MR	
GNP	Obtaining the serial No. of the panel	
GPC	Obtaining the P ON COUNTER value	
GPD	Obtaining power-down information	
GPR	Obtaining the PANEL REVISE data	
GPM	Obtaining the PULSE METER data	
GPW	Obtaining the PANEL W/B data	
GS1	Obtaining the version data for each device	
GS2	Obtaining data on various operations	
GS6	Obtaining the any version	
GSD	Obtaining shutdown information	
GSL	Adjusting side mask G	
GYG	GY GAIN	

Command	Operation	Remarks
I		
INC***	Selection of the tuner for terrestrial digital signals	PDP-R05XE only
INH	Selection of SD card/PCMCIA card	PDP-R05XE and PDP-R05E only
INPS01	Input selection: Input 1	
INPS02	Input selection: Input 2	
INPS03	Input selection: Input 3	
INPS04	Input selection: Input 4	
INPS05	Input selection: Input 5	PDP-R05XE and PDP-R05E only
INA	Selection of the tuner for terrestrial analog signals	
L		
LCD	Liquid crystal mode of MR alone	
M		
MSKS00	Mask mode: OFF	
MSKS01	White: 0-100%	
MSKS02	Aging mask	
MSKS03	Aging mask (detection of still picture: OFF)	
MSKS10	RAMP slant 1	
MSKS11	RAMP slant 4	
MSKS12	RAMP slant 1 shifting	
MSKS13	RAMP slant 4 shifting	
MSKS14	V RAMP	
MSKS15	H/V RAMP	
M1G	IC1 MAIN GAIN	
M1O	IC1 MAIN OFFSET	
MSKS20	WINDOW-Low: 102 / High: 870	
MSKS21	WINDOW-Low: 102 / High: 1023	
MSKS22	WINDOW-Low: 0 / High: 1023	
MSKS23	WINDOW-High: 1023 (CENTER)	
MSKS24	WINDOW-PEAK WINDOW	Area 1.25%
MSKS25	WINDOW-1/7 vertical window	
MSKS26	WINDOW-magenta/green stripe	
MSKS27	WINDOW-green/magenta stripe	
MSKS28	Window (black & white [1 × 8], checkered pattern [for EMG check])	
MSKS29	Window (for W/B adjustment, magenta, yellow)	
MSKS40	Wiper to prevent phosphor burn	
MSKS30	COLOR BAR	
MSKS31	Slanted lines	
MSKS51	Raster-white	
MSKS52	Raster-red	
MSKS53	Raster-green	
MSKS54	Raster-blue	
MSKS55	Raster-black	
MSKS56	Raster-cyan	
MSKS57	Raster-magenta	
MSKS58	Raster-yellow	
MSKS59	Raster-cyan 274	
MSKS60	Raster-50 flesh color	
MSKS61	Raster-50 light purple	
MSKS62	Raster-50 sky blue	
MSKS63	Raster-red 779	
MSKS64	Raster-cyan 218	
MSKS65	Raster-cyan 448	
MSKS66	Raster-43 flesh color	
MSKS67	Raster-red 640	
MSKS68	Raster-magenta 98	
MSKS69	Raster-43 sky blue 1	
MSKS70	Raster-43 sky blue 2	
MSKS71	Raster-43 light purple	
MSKS72	Raster-blue 960	
MSKS73	Raster-gray 511 (spare)	
MSKS74	Raster-gray 511 (spare)	

Command	Operation	Remarks
M		
MRG	AD MAIN R GAIN	
MRO	AD MAIN R OFFSET	
MGG	AD MAIN G GAIN	
MGO	AD MAIN G OFFSET	
MBG	AD MAIN B GAIN	
MBO	AD MAIN B OFFSET	
P		
PBH	Panel W/B B-HIGH adjustment	
PBL	Panel W/B B-LOW adjustment	
PGH	Panel W/B G-HIGH adjustment	
PGL	Panel W/B G-LOW adjustment	
POF	Turning the power OFF	
PON	Turning the power ON	
PRH	Panel W/B R-HIGH adjustment	
PRL	Panel W/B R-LOW adjustment	
R		
RYG	RY GAIN	
RSL	Adjustment of side mask R	
S		
S1G	IC1 SUB GAIN	
S1O	IC1 SUB OFFSET	
SBG	AD SUB B GAIN	
SBO	AD SUB B OFFSET	
SFI	Initialization of the full mask table	
SGG	AD SUB G GAIN	
SGO	AD SUB G OFFSET	
SRG	AD SUB R GAIN	
SRO	AD SUB R OFFSET	
T		
TSN	Not enabling the TRAP switch	
TSY	Enabling the TRAP switch	The command is effective even during Standby mode.
U		
UP*	Increasing the adjustment value by *	*: 1-9, 0 (0 means 10), or F (making the adjustment value the maximum)
UAJ	Resetting all data in the DIGITAL Assy to those of a new service part	
V		
VMTS00	Panel Mute OFF	
VMTS01	Panel Mute ON	
VOF	Offset voltage adjustment	
VSG	CVY GAIN	
VSU	SUS voltage adjustment	
X		
XD1	D1 trailing-edge pulse of X-SUS	
XD2	D2 trailing-edge pulse of X-SUS	
XU1	U1 leading-edge pulse of X-SUS	
XU2	U2 leading-edge pulse of X-SUS	
Y		
YD1	D1 trailing-edge pulse of Y-SUS	
YD2	D2 trailing-edge pulse of Y-SUS	
YD3	D3 trailing-edge pulse of Y-SUS	
YD4	D4 trailing-edge pulse of Y-SUS	
YU1	U1 leading-edge pulse of Y-SUS	
YU2	U2 leading-edge pulse of Y-SUS	

6.9 OUTLINE OF COMMANDS

■ GET Commands

GS1: Returning information on the model and the version of the software

Order	Data	Size
1	Data on the display	3 bytes
2	Version of the module microcomputer	4 bytes
3	Version of the IC4-MANTA	4 bytes
4	Sequence version (50VIDEO)	4 bytes
5	Sequence version (50PC)	4 bytes
6	Sequence version (43VIDEO)	4 bytes
7	Sequence version (43PC)	4 bytes
8	Version of the IF microcomputer	4 bytes
9	Version of the main microcomputer boot Software	4 bytes
10	Version of the main microcomputer	4 bytes
11	Version of the IC3 boot Software	4 bytes
12	Version of the IC3 Program	4 bytes
13	Version of the IC3 Enhanced	4 bytes
14	Version of the IC3 GUI	4 bytes

Breakdown of the data on the display

Data	Model
HD5	PDP-505HD series
HD4	PDP-435HD series

GPM: Returning the data of the PDP pulse meter

Order	Data	Size
1	Pulse meter (Block area 1)	10 bytes
2	Pulse meter (Block area 2)	10 bytes
3	Pulse meter (Block area 3)	10 bytes
4	Pulse meter (Block area 4)	10 bytes
5	Pulse meter (Block area 5)	10 bytes

Note: Refer to the service manual of the panel.

GPC: Returning the cumulative number of times the power to the PDP was turned on

Order	Data	Size
1	Power-on counter	8 bytes

• Commands for clearing the logs

Parameter	Corresponding RS-232C Command
PD INFO	CPD
SD INFO	CSD
NG INFO	CNG
HOUR METER	CHM
MR HOUR METER (Only for the system model)	CHR
PULSE METER	CPM
P ON COUNTER	CPC

GPD: Returning the power-down data (log) of the PDP

Order	Data	Size	Order	Data	Size
1	Latest "1st PD" data	1 byte	17	Fifth latest “1st PD” data	1 byte
2	Latest "2nd PD" data	1 byte	18	Fifth latest “2nd PD” data	1 byte
3	Data of hour meter for the latest PD	7 bytes	19	Data of hour meter for the fifth latest PD	7 bytes
4	Data on temperature for the latest PD (TEMP1)	3 bytes	20	Data on temperature for the fifth latest PD (TEMP1)	3 bytes
5	Second latest “1st PD” data	1 byte	21	Sixth latest “1st PD” data	1 byte
6	Second latest “2nd PD” data	1 byte	22	Sixth latest “2nd PD” data	1 byte
7	Data of hour meter for the second latest PD	7 bytes	23	Data of hour meter for the sixth latest PD	7 bytes
8	Data on temperature for the second latest PD (TEMP1)	3 bytes	24	Data on temperature for the sixth latest PD (TEMP1)	3 bytes
9	Third latest “1st PD” data	1 byte	25	Seventh latest “1st PD” data	1 byte
10	Third latest “2nd PD” data	1 byte	26	Seventh latest “2nd PD” data	1 byte
11	Data of hour meter for the third latest PD	7 bytes	27	Data of hour meter for the seventh latest PD	7 bytes
12	Data on temperature for the third latest PD (TEMP1)	3 bytes	28	Data on temperature for the seventh latest PD (TEMP1)	3 bytes
13	Fourth latest “1st PD” data	1 byte	29	Eighth latest “1st PD” data	1 byte
14	Fourth latest “2nd PD” data	1 byte	30	Eighth latest “2nd PD” data	1 byte
15	Data of hour meter for the fourth latest PD	7 bytes	31	Data of hour meter for the eighth latest PD	7 bytes
16	Data on temperature for the fourth latest PD (TEMP1)	3 bytes	32	Data on temperature for the eighth latest PD (TEMP1)	3 bytes

• Details on "1st/2nd PD" data

Data	Power-down Point
0	No power-down
1	Not used (for MR-POWER)
2	P-POWER
3	SCAN
4	SCN-5V
5	Y-DRIVE
6	Y-DCDC
7	Y-SUS
8	ADRS
9	X-DRIVE
A	X-DCDC
B	X-SUS
C	DIG-DCDC
D	IC4
F	Power-down point not identified

GSD: Returning the shutdown data (log) of the PDP

Order	Data	Size	Order	Data	Size
1	Latest SD data	1 byte	17	Fifth latest SD data	1 byte
2	Data of subcategory for the latest SD	1 byte	18	Data of subcategory for the fifth latest SD	1 byte
3	Data of hour meter for the latest SD	7 bytes	19	Data of hour meter for the fifth latest SD	7 bytes
4	Data on temperature for the latest SD (TEMP1)	3 bytes	20	Data on temperature for the fifth latest SD (TEMP1)	3 bytes
5	Second latest SD data	1 byte	21	Sixth latest SD data	1 byte
6	Data of subcategory for the second latest SD	1 byte	22	Data of subcategory for the sixth latest SD	1 byte
7	Data of hour meter for the second latest SD	7 bytes	23	Data of hour meter for the sixth latest SD	7 bytes
8	Data on temperature for the second latest SD (TEMP1)	3 bytes	24	Data on temperature for the sixth latest SD (TEMP1)	3 bytes
9	Third latest SD data	1 byte	25	Seventh latest SD data	1 byte
10	Data of subcategory for the third latest SD	1 byte	26	Data of subcategory for the seventh latest SD	1 byte
11	Data of hour meter for the third latest SD	7 bytes	27	Data of hour meter for the seventh latest SD	7 bytes
12	Data on temperature for the third latest SD (TEMP1)	3 bytes	28	Data on temperature for the seventh latest SD (TEMP1)	3 bytes
13	Fourth latest SD data	1 byte	29	Eighth latest SD data	1 byte
14	Data of subcategory for the fourth latest SD	1 byte	30	Data of subcategory for the eighth latest SD	1 byte
15	Data of hour meter for the fourth latest SD	7 bytes	31	Data of hour meter for the eighth latest SD	7 bytes
16	Data on temperature for the fourth latest SD (TEMP1)	3 bytes	32	Data on temperature for the eighth latest SD (TEMP1)	3 bytes

• Details on the shutdown data

Data	Cause of Shutdown
0	No abnormality
1	IC4 (IC5401)
2	Module microcomputer IIC
3	Abnormality in RST2 (power decrease of DC-DC converter)
4	Panel having abnormally high temperature
5	Audio failure (short-circuiting of the speakers)
6 - F	Spares

• Data on the shutdown subcategories for the module microcomputer IIC

Data	Cause of Shutdown
0	No subcategory
1	EEPROM (4k) (IC5206)
2	EEPROM (2k) (IC4002)
3	Volume IC (IC3502)

GNG: Returning the data (logs) on power-down and shutdown of the Media Receiver

Order	Data	Size	Order	Data	Size
1	Latest NG data	1 byte	17	Fifth latest NG data	1 byte
2	Data of subcategory for the latest NG	1 byte	18	Data of subcategory for the fifth latest NG	1 byte
3	Data of MR hour meter for the latest NG	7 bytes	19	Data of MR hour meter for the fifth latest NG	7 bytes
4	Data on temperature for the latest NG (TEMP2)	3 bytes	20	Data on temperature for the fifth latest NG (TEMP2)	3 bytes
5	Second latest NG data	1 byte	21	Sixth latest NG data	1 byte
6	Data of subcategory for the second latest NG	1 byte	22	Data of subcategory for the sixth latest NG	1 byte
7	Data of MR hour meter for the second latest NG	7 bytes	23	Data of MR hour meter for the sixth latest NG	7 bytes
8	Data on temperature for the second latest NG (TEMP2)	3 bytes	24	Data on temperature for the sixth latest NG (TEMP2)	3 bytes
9	Third latest NG data	1 byte	25	Seventh latest NG data	1 byte
10	Data of subcategory for the third latest NG	1 byte	26	Data of subcategory for the seventh latest NG	1 byte
11	Data of MR hour meter for the third latest NG	7 bytes	27	Data of MR hour meter for the seventh latest NG	7 bytes
12	Data on temperature for the third latest NG (TEMP2)	3 bytes	28	Data on temperature for the seventh latest NG (TEMP2)	3 bytes
13	Fourth latest NG data	1 byte	29	Eighth latest NG data	1 byte
14	Data of subcategory for the fourth latest NG	1 byte	30	Data of subcategory for the eighth latest NG	1 byte
15	Data of MR hour meter for the fourth latest NG	7 bytes	31	Data of MR hour meter for the eighth latest NG	7 bytes
16	Data on temperature for the fourth latest NG (TEMP2)	3 bytes	32	Data on temperature for the eighth latest NG (TEMP2)	3 bytes

• Details on the NG data

Data	Cause of Shutdown
0	No abnormality
1	Power-down of the MR power supply
2	Communication failure of the module microcomputer
3	Three-wire serial communication failure of the main microcomputer
4	IIC communication failure of the main microcomputer
5	Communication failure of the main microcomputer
6	MR having abnormally high temperature
7	Fan stopped
8	Failure of the UART communication
9	Abnormality in RST2 of the MR (power decrease of DC-DC converter)

• Data on the subcategories for failure in 3-wire serial communication of the main microcomputer

Data	Cause of Shutdown
0	No subcategory
1	Communication failure of the IF microcomputer
2	IC2 communication failure
3	IC3 communication failure

• Data on the subcategories for failure in the digital tuner

Data	Cause of Shutdown
0	No subcategory (DTV for North America)
1	Communication failure of the DTV microcomputer (PS/RST)
2	DTV NG (DEVICE)
3	DTV microcomputer (CMD)
4	DTV microcomputer communication (RETRY)
5	PC CARD Communication NG (CD-COM)
6	PC CARD Mdule (CD-DEV)
7	PC CARD Reset NG (CD-RST)

• Data on the subcategories for failure in IIC communication of the main microcomputer

Data	Cause of Shutdown
0	No subcategory
1	EEPROM (128k) (IC7205)
2	GCR (Only domestic model)
3	IC1 main (IC6107)
4	IC1 sub (IC6255)
5	AD-PLL main (IC6402)
6	AD-PLL sub (IC6602)
7	IC6 (IC6951)
8	Not used
9	HDMI2(IC6881)
A	7-3VIDEO SW (IC8002)
B	6-2RGB SW (IC8005)
C	Front end 1 (U7501)
D	Not used
E	TX-COM (2C8904)
F	PANEL LINK TX (IC7401)
G	PANEL LINK RX
H	Not used
I	Not used
K	AV-EEP ROM

GAJ: Returning drive-related adjustment values of the PDP

Order	Data	Size
1	Currently used ABL table	3 bytes
2	Upper limit of the electric power	3 bytes
3	Vsus adjustment value	3 bytes
4	Vofs adjustment value	3 bytes
5	X-SUS-U1 adjustment value (XU1)	3 bytes
6	X-SUS-U2 adjustment value (XU2)	3 bytes
7	X-SUS-D2 adjustment value (XD2)	3 bytes
8	X-SUS-D1 adjustment value (XD1)	3 bytes
9	Y-SUS-U1 adjustment value (YU1)	3 bytes
10	Y-SUS-U2 adjustment value (YU2)	3 bytes
11	Y-SUS-D1-2 adjustment value (YD2)	3 bytes
12	Y-SUS-D1-1 adjustment value (YD1)	3 bytes
13	Y-SUS-D2-2 adjustment value (YD4)	3 bytes
14	Y-SUS-D2-1 adjustment value (YD3)	3 bytes

Data	Table
AB1	ABL table for NTSC
AB2	ABL table for PAL
AB3	ABL table for PC

GPW: Returning RGB-level-related adjustment values of the PDP

Order	Data	Size
1	Panel W/B table currently used	3 bytes
2	Main contrast	4 bytes
3	Red contrast of the W/B adjustment value	4 bytes
4	Green contrast of the W/B adjustment value	4 bytes
5	Blue contrast of the W/B adjustment value	4 bytes
6	Main brightness	4 bytes
7	Red brightness of the W/B adjustment value	4 bytes
8	Green brightness of the W/B adjustment value	4 bytes
9	Blue brightness of the W/B adjustment value	4 bytes

Data	Table
PT1	ABL table for NTSC
PT2	ABL table for PAL
PT3	Reserved table

GS6: Returning information of the Flash Device

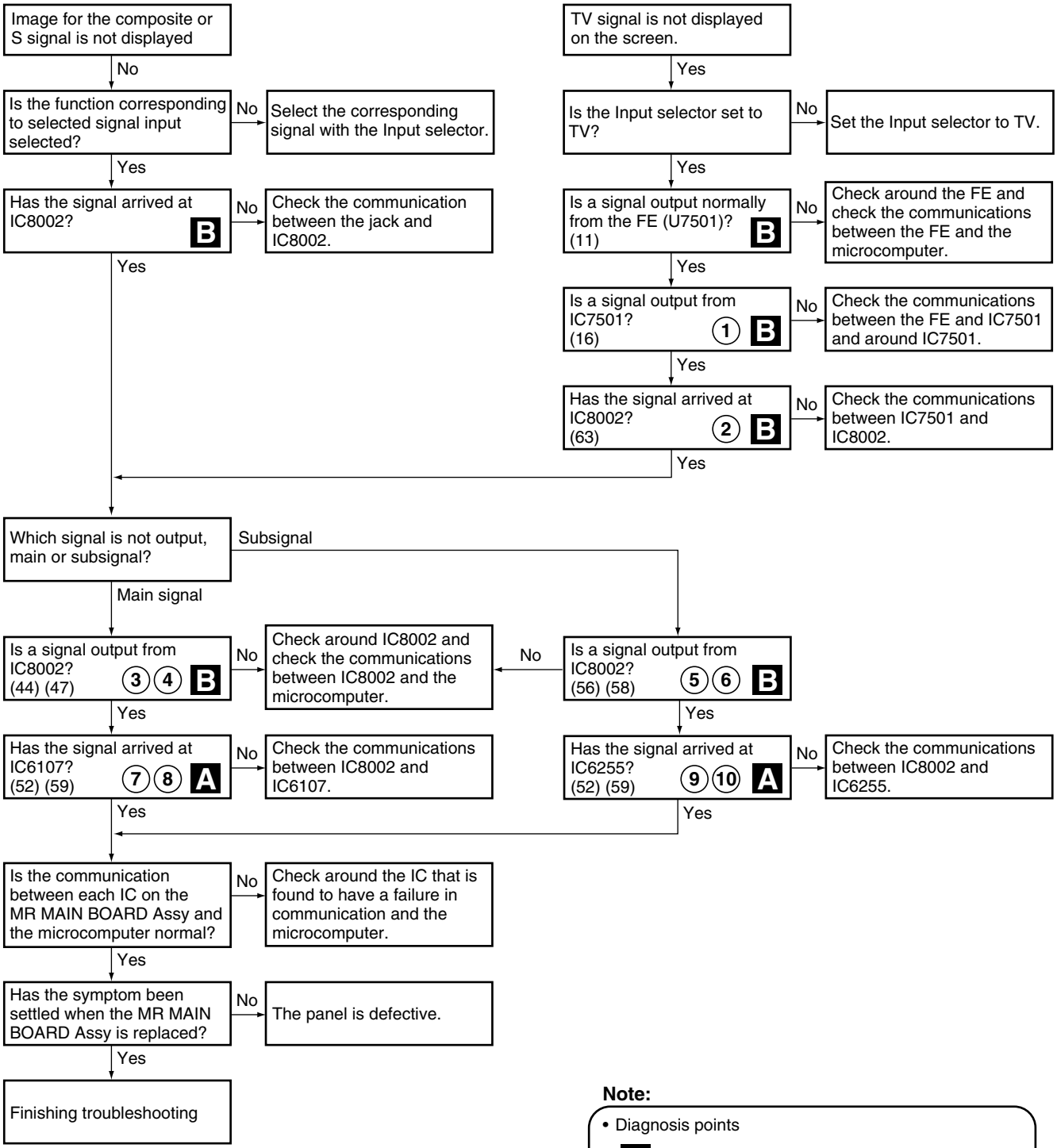
Order	Data	Size
1	Display Information	3 bytes
2	Version of the DTB (PDP-R05XE only)	4 bytes
3	Version of the PC Card (Except PDP-R05FE)	8 bytes
4	Version of the Text	60 bytes
5	User Passward	4 bytes

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 TROUBLESHOOTING

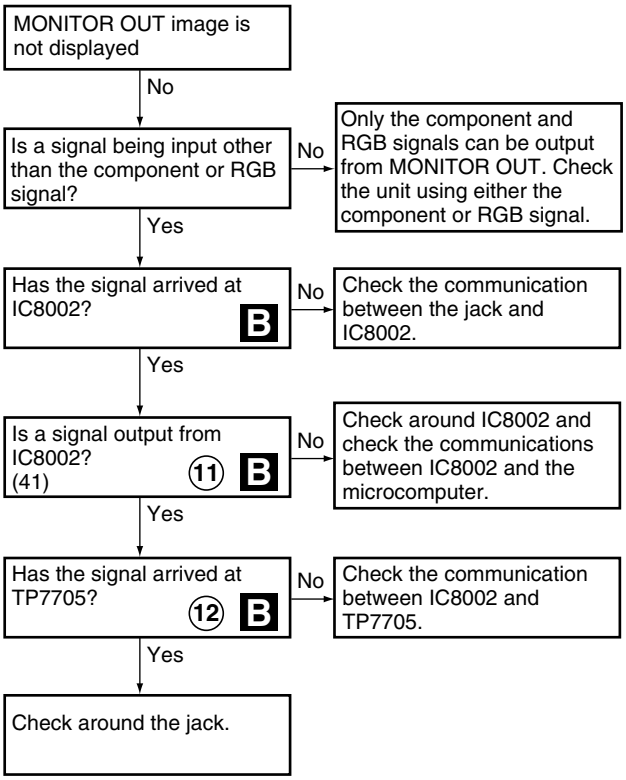
● Image for the composite or S signal is not displayed



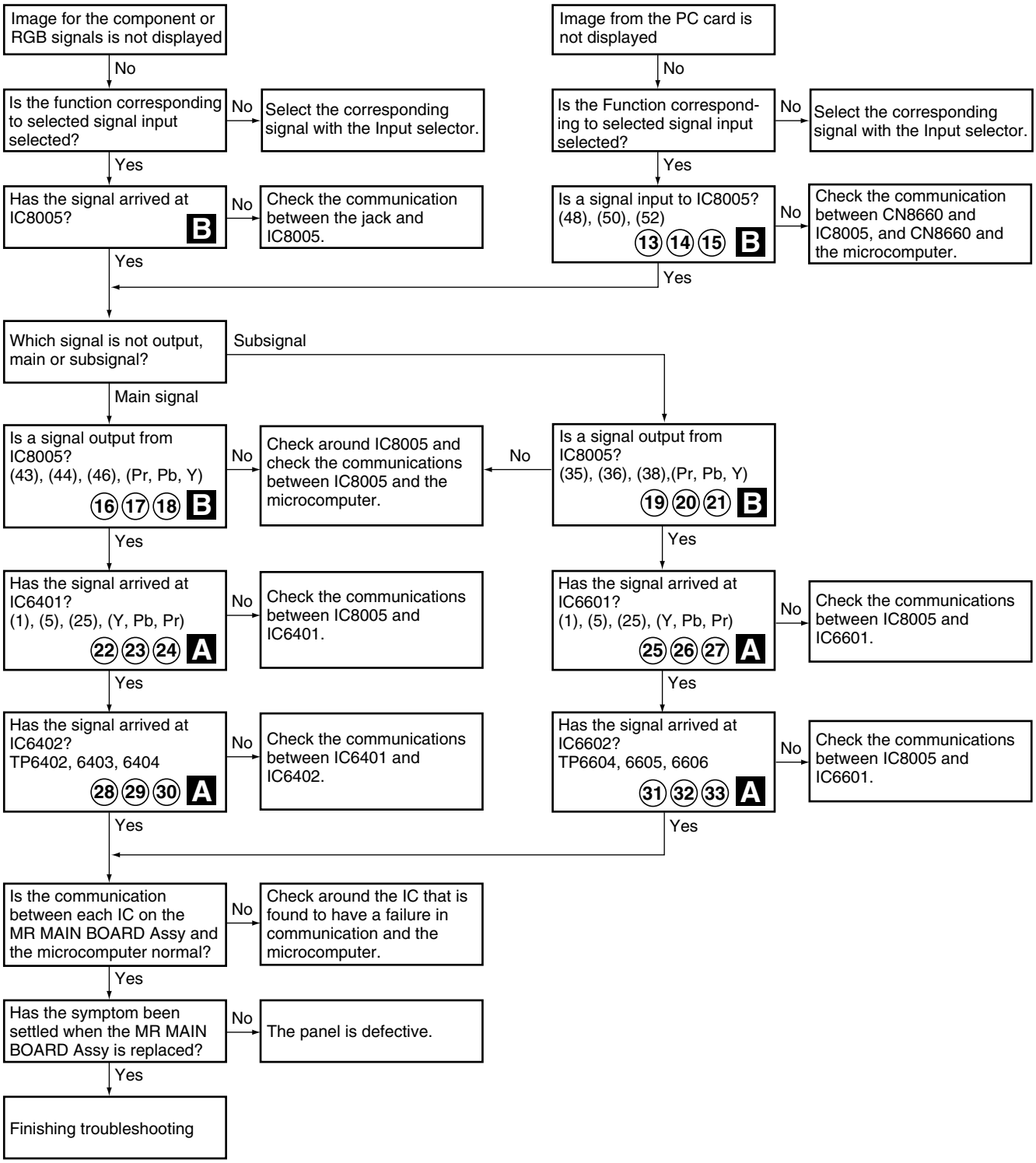
Note:

- Diagnosis points
  - **A MR MAIN BOARD ASSY**
  - **B AV BOARD ASSY**
- For check the communication with the microcomputer, refer to the section 6.7 SERVICE FACTORY MODE.
- The encircled numbers denote measuring point in the Waveforms for Troubleshooting.

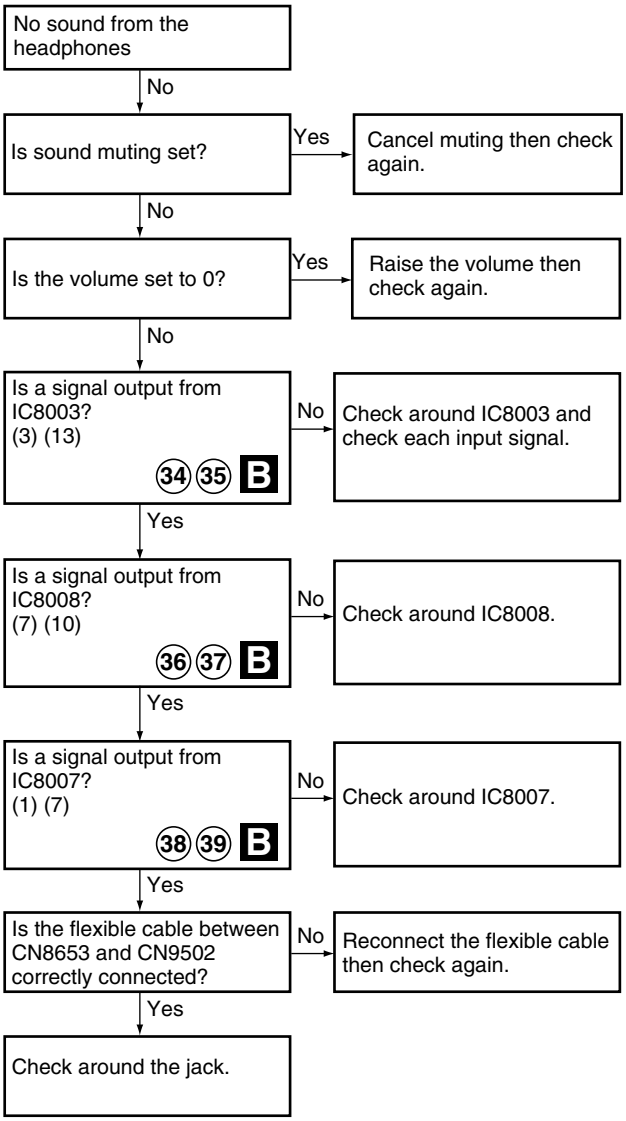
● MONITOR OUT image is not displayed

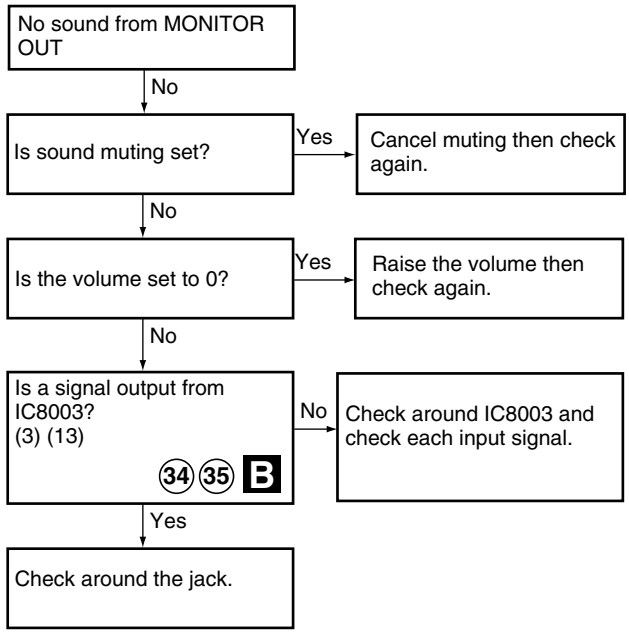


● Image for the component or RGB signals is not displayed

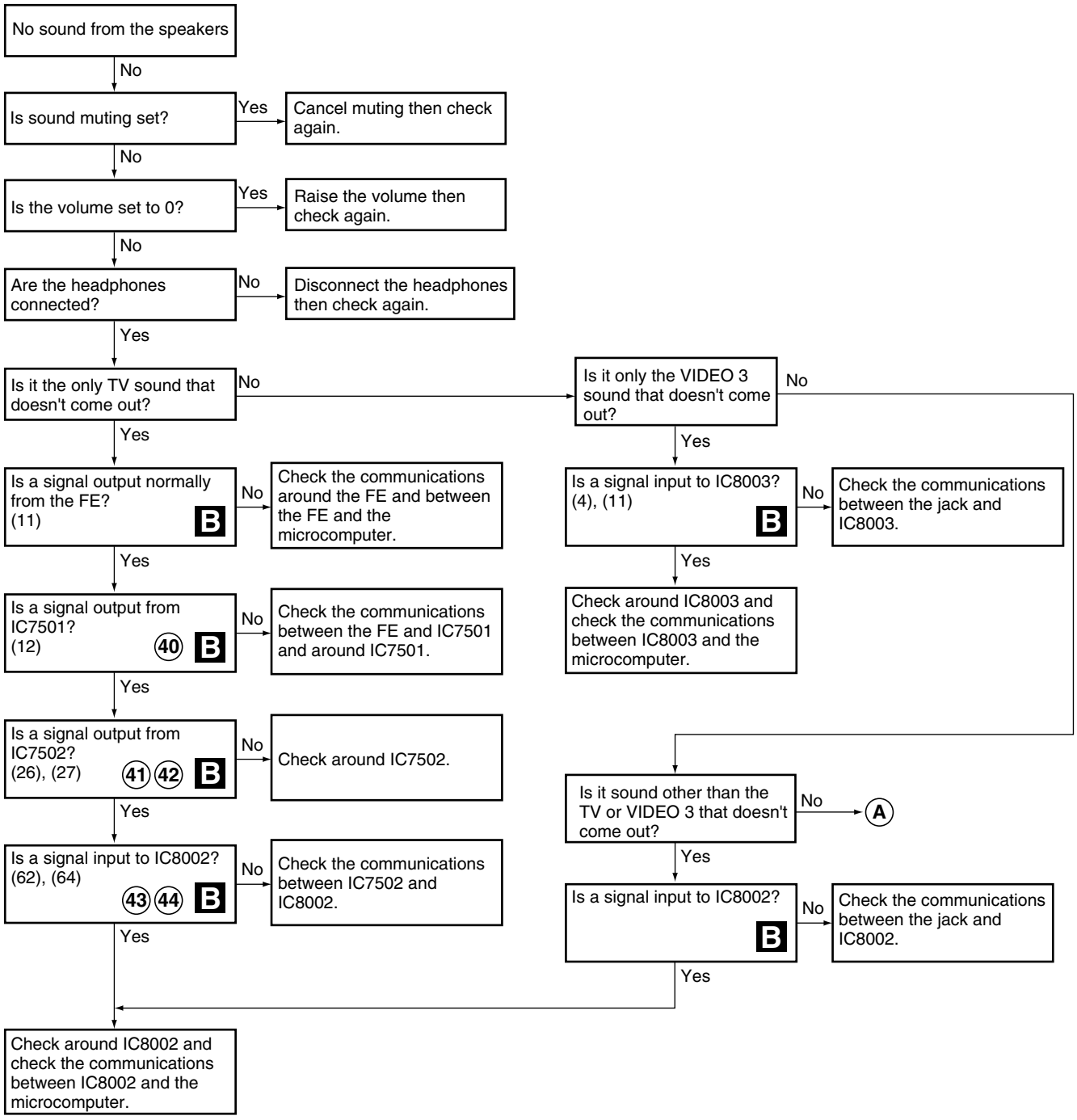


● No sound from the headphones

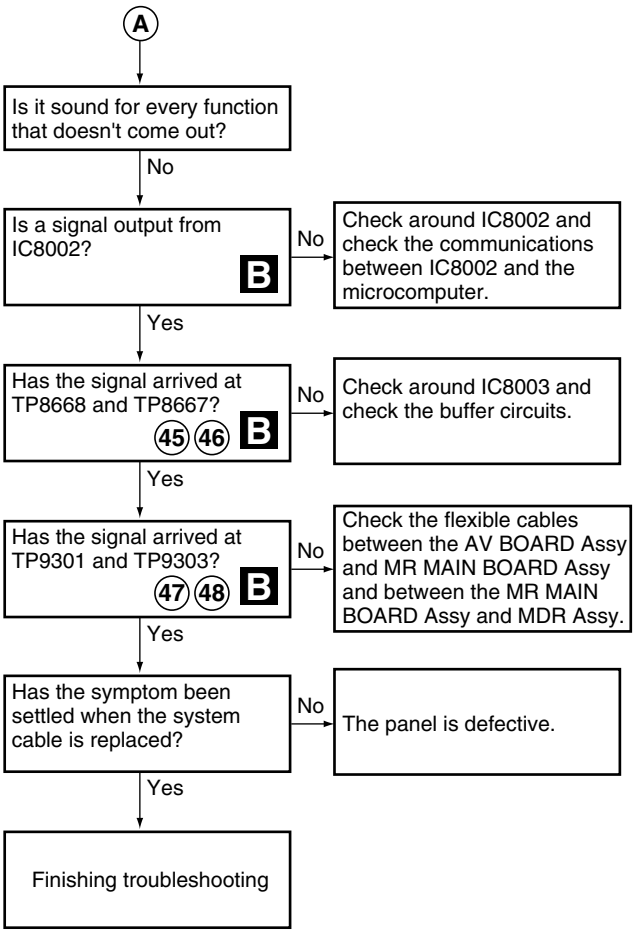


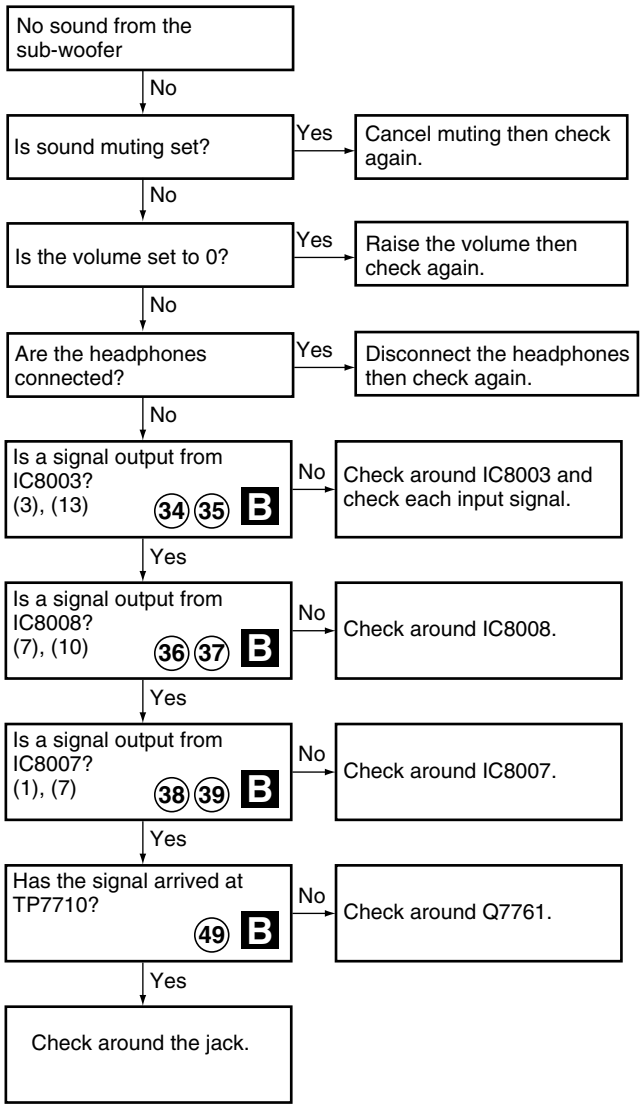


● No sound from the speakers (1/2)

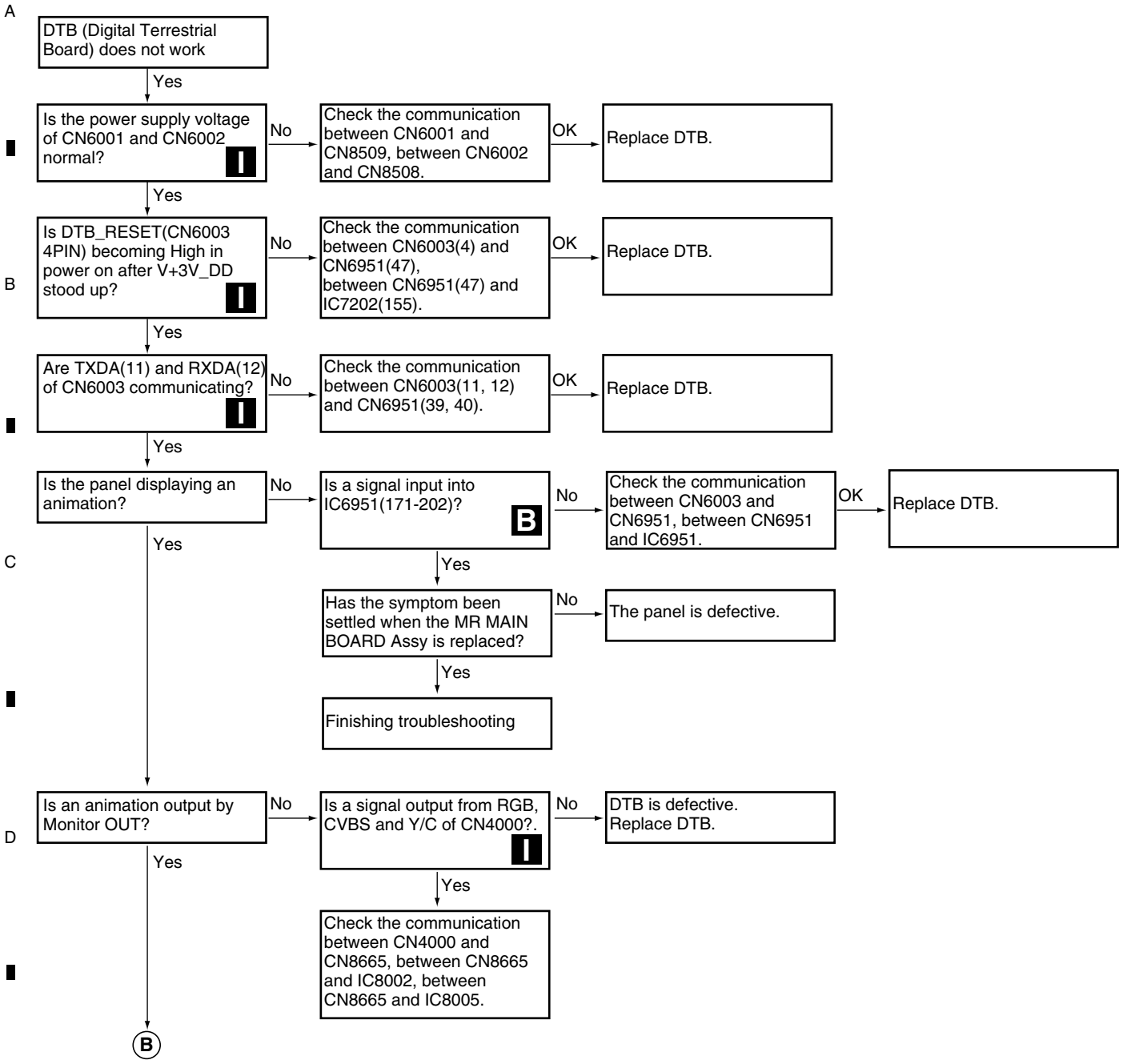


● No sound from the speakers (2/2)

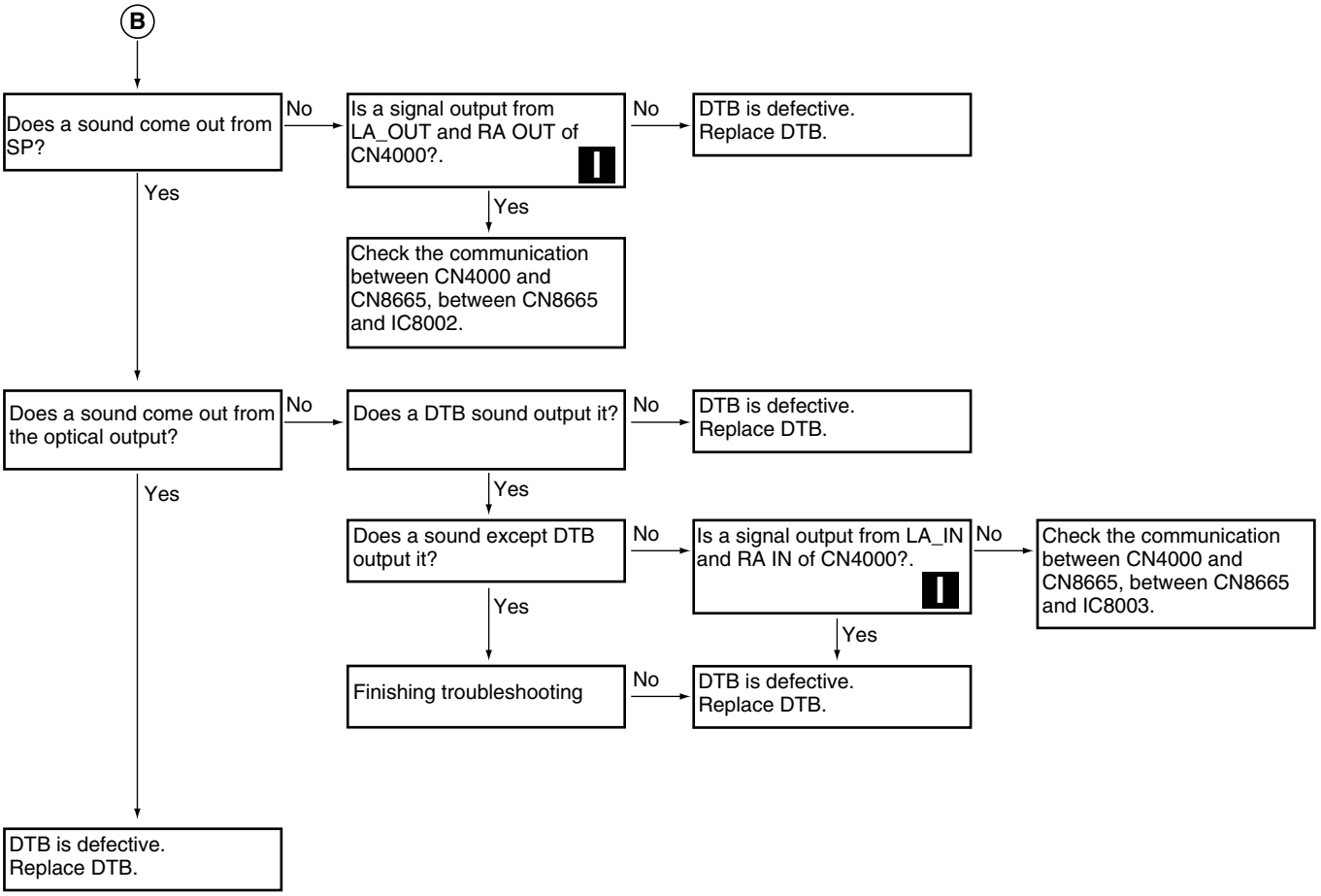




● DTB (Digital Terrestrial Board)(1/2)

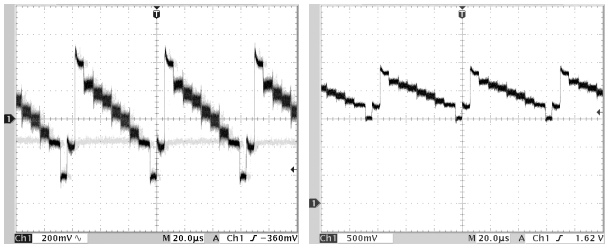


● DTB (Digital Terrestrial Board)(2/2)



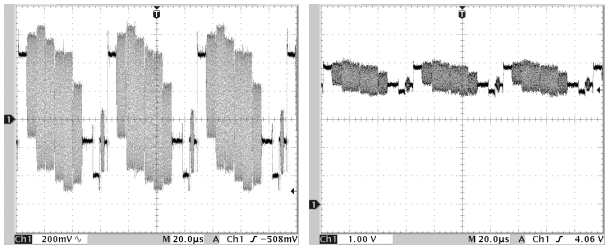
A

1 **IC7501 - pin 16**



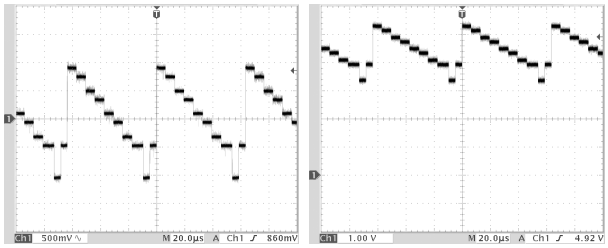
B

2 **IC8002 - pin 63**



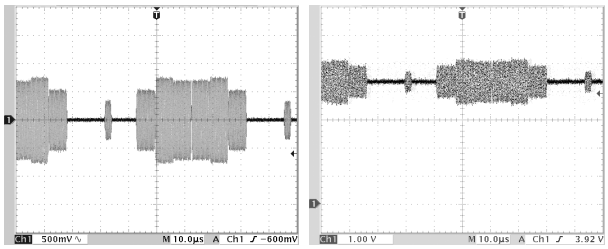
C

3 **IC8002 - pin 44**



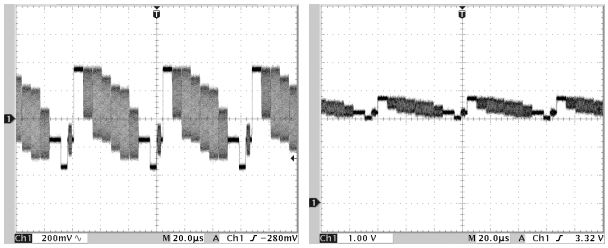
D

4 **IC8002 - pin 47**



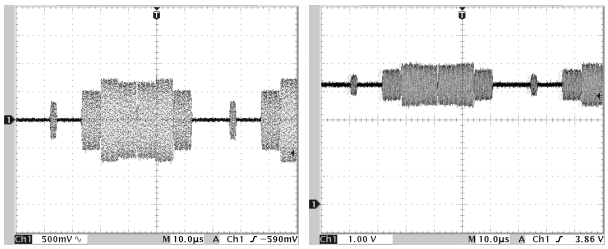
E

5 **IC8002 - pin 56**

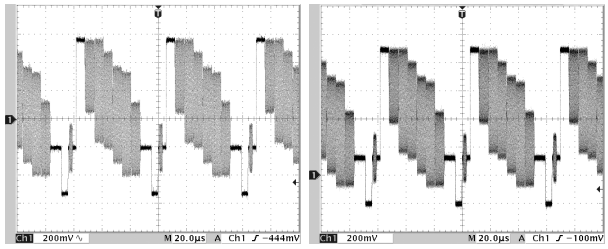


F

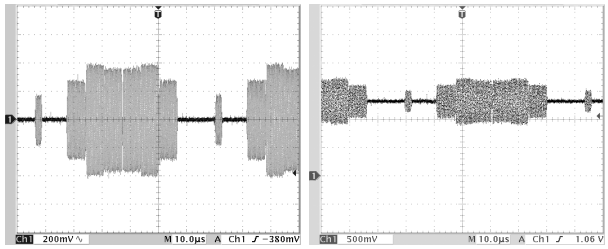
6 **IC8002 - pin 58**



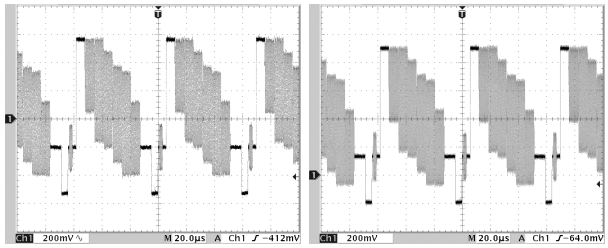
7 **IC6107 - pin 52**



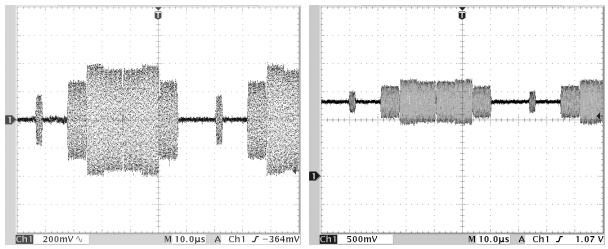
8 **IC6107 - pin 59**



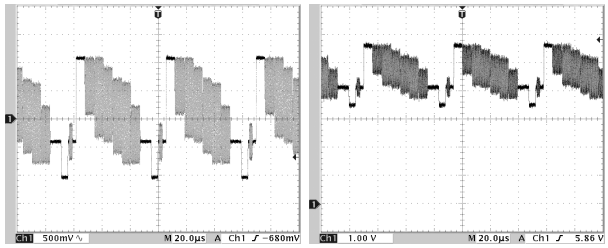
9 **IC6255 - pin 52**



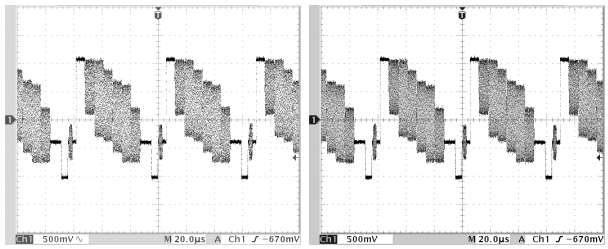
10 **IC6255 - pin 59**



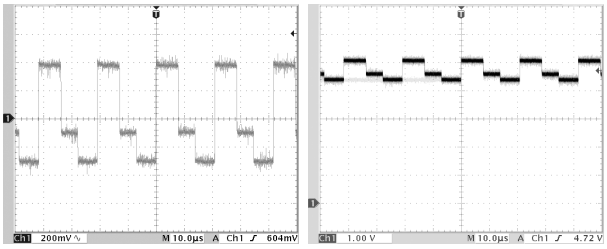
11 **IC8002 - pin 41**



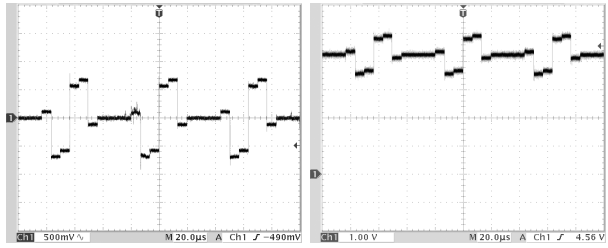
12 **TP7705**



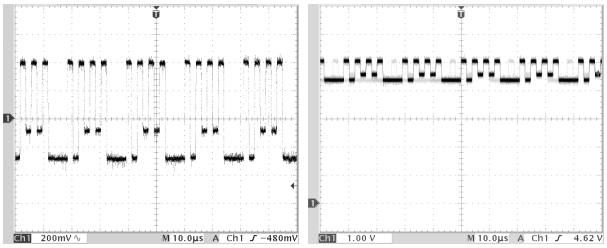
(13) IC8005 - pin 48



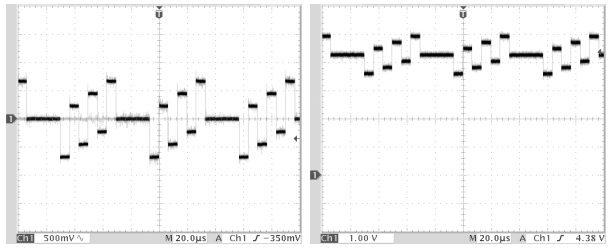
(19) IC8005 - pin 35



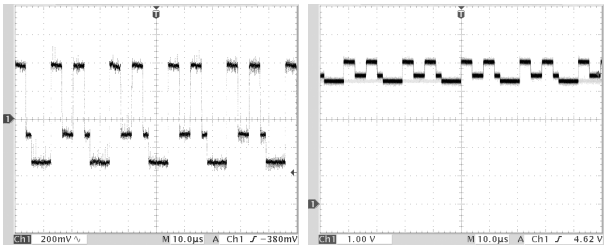
(14) IC8005 - pin 50



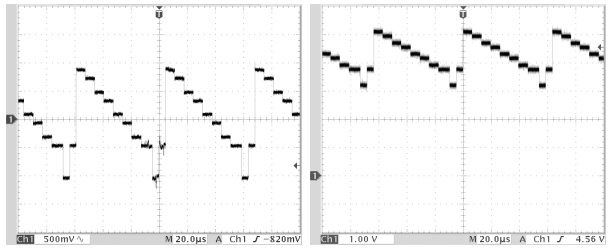
(20) IC8005 - pin 36



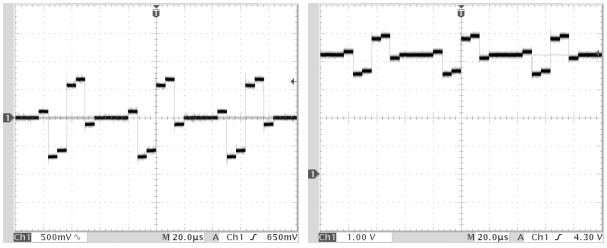
(15) IC8005 - pin 52



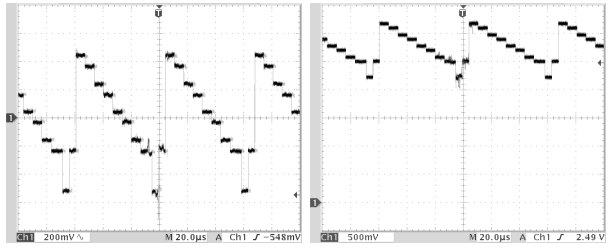
(21) IC8005 - pin 38



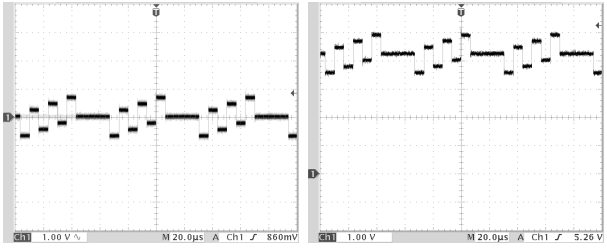
(16) IC8005 - pin 43



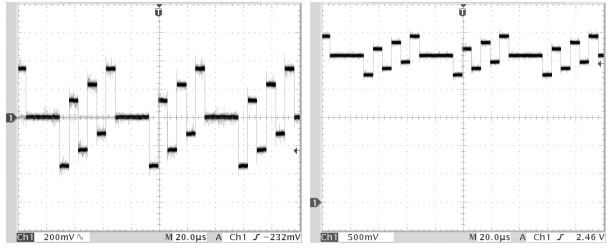
(22) IC6401 - pin 1



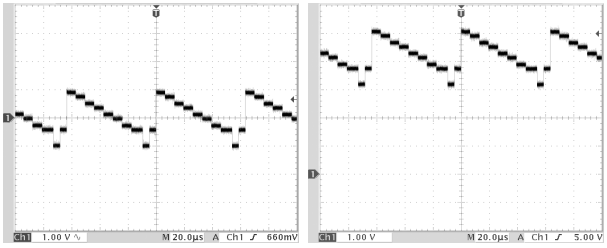
(17) IC8005 - pin 44



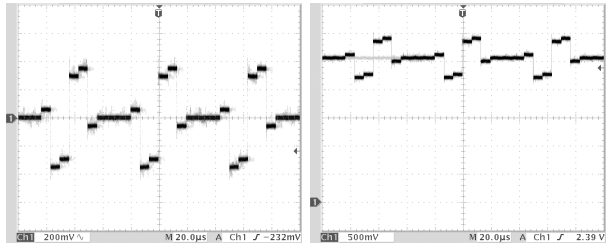
(23) IC6401 - pin 5



(18) IC8005 - pin 46



(24) IC6401 - pin 25



A

B

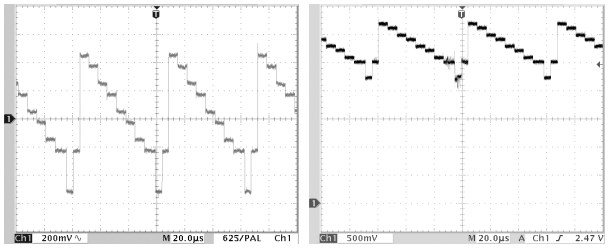
C

D

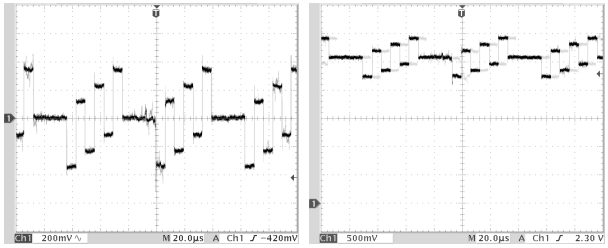
E

F

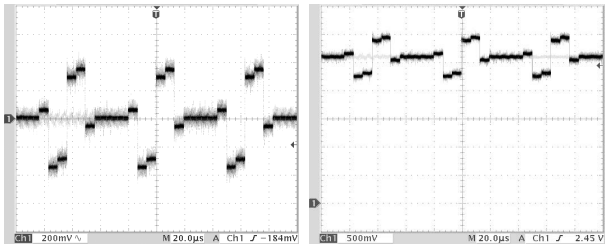
25 IC6601 - pin 1



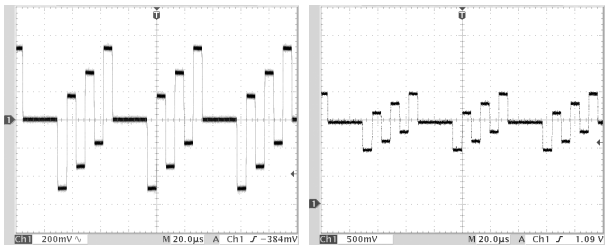
26 IC6601 - pin 5



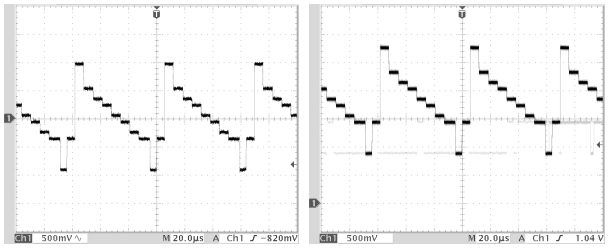
27 IC6601 - pin 25



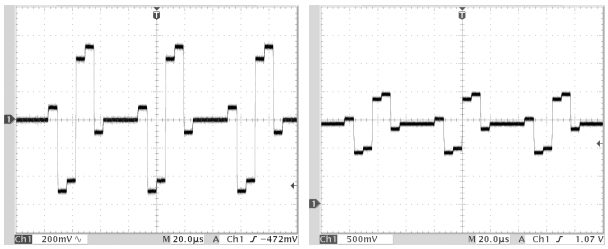
28 TP6402



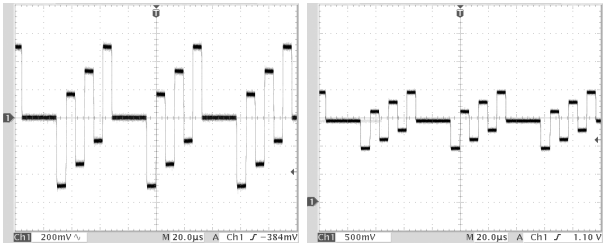
29 TP6403



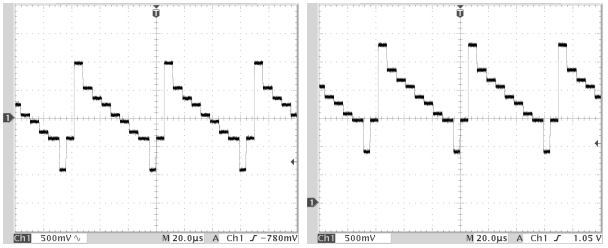
30 TP6404



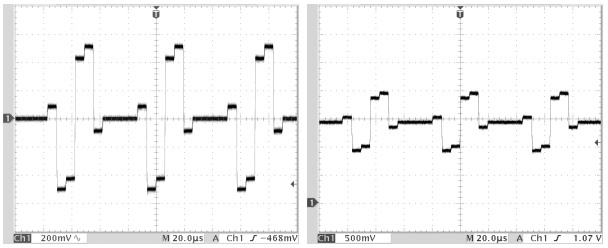
31 TP6604



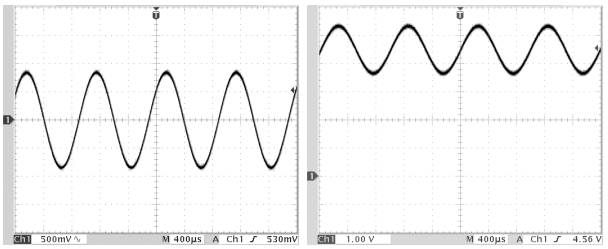
32 TP6605



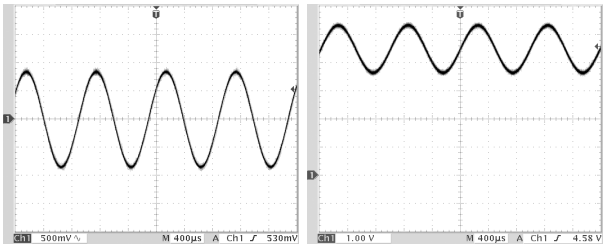
33 TP6606



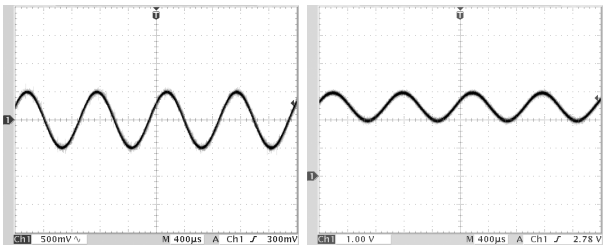
34 IC8003 - pin 3



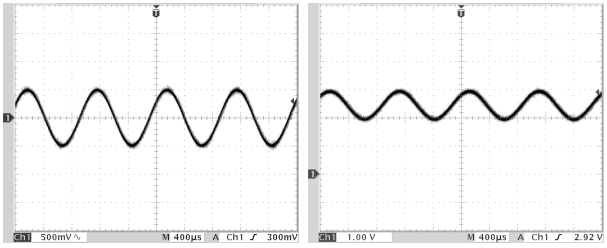
35 IC8003 - pin 13



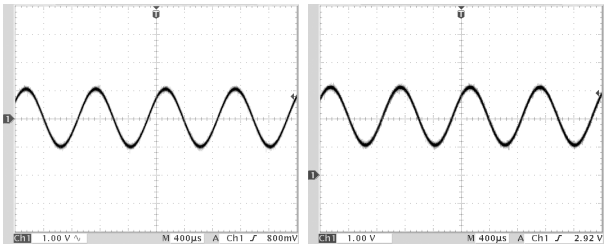
36 IC8006 - pin 7



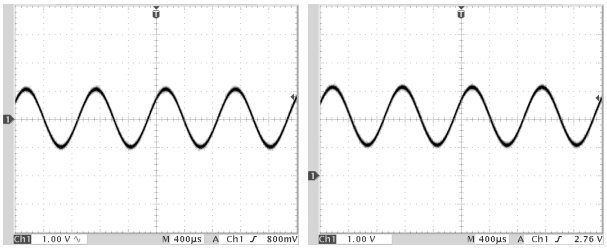
37 **IC8006 - pin 10**



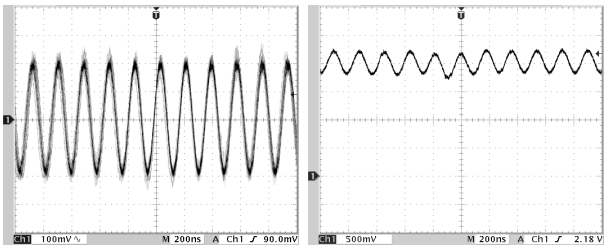
38 **IC8007 - pin 1**



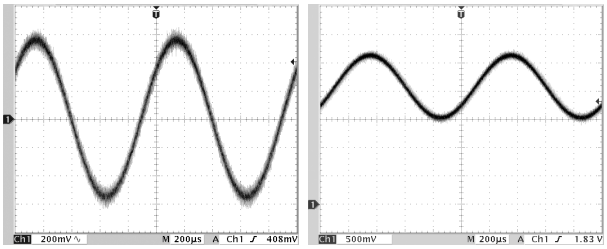
39 **IC8007 - pin 7**



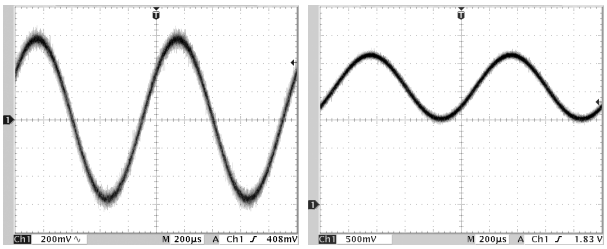
40 **IC7501 - pin 12**



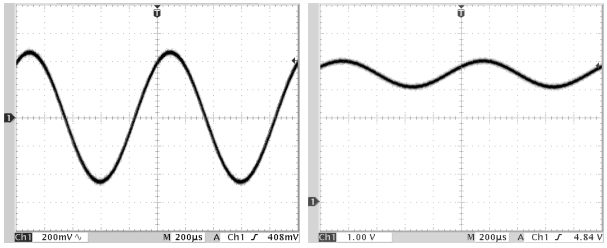
41 **IC7502 - pin 26**



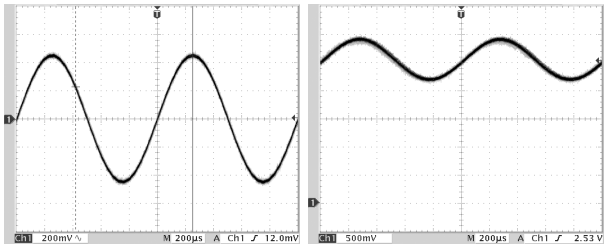
42 **IC7502 - pin 27**



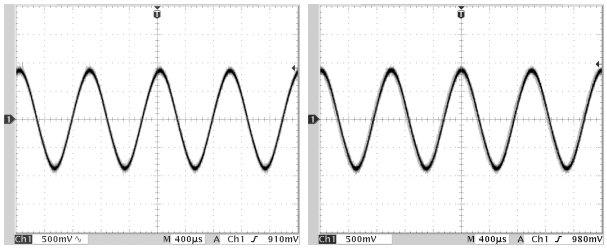
43 **IC8002 - pin 62**



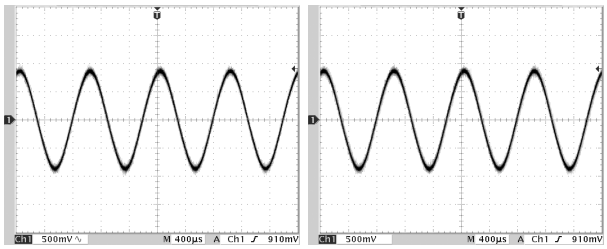
44 **IC8002 - pin 64**



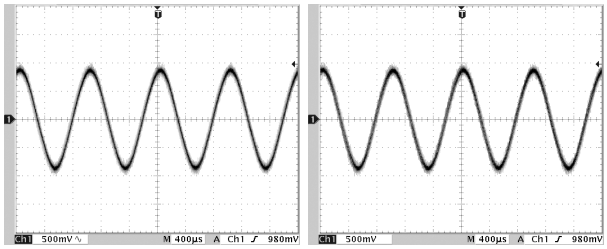
45 **TP8667**



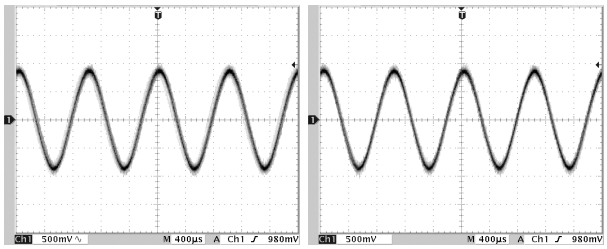
46 **TP8668**



47 **TP9301**

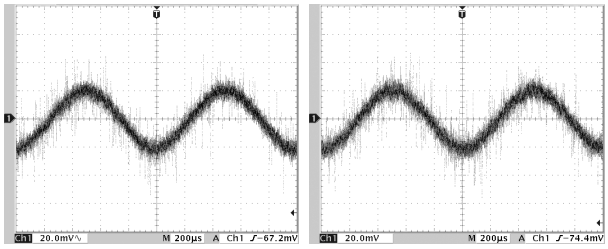


48 **TP9303**



A

49 **TP7710**



B

C

D

E

F

7.1.2 DISASSEMBLY

Note: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

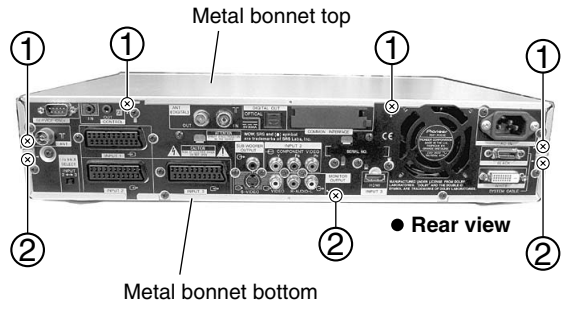
1 Metal bonnet top and metal bonnet bottom

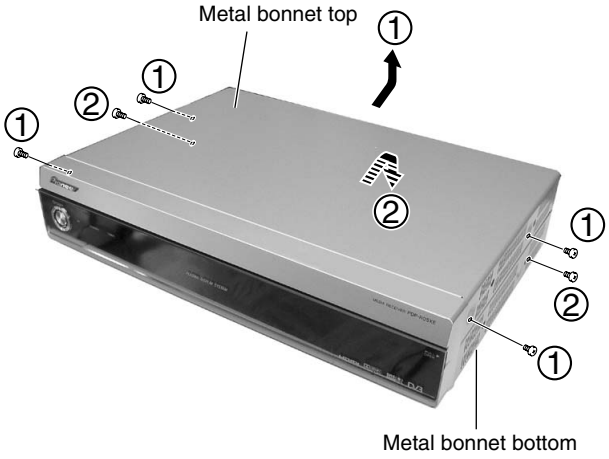
① Remove the metal bonnet top by removing the eight screws.

② Remove the metal bonnet bottom by removing the five screws.

Caution :

Please remove it after pulling it in a rear direction because bonnet top and metal bonnet bottom are hard to reduce.





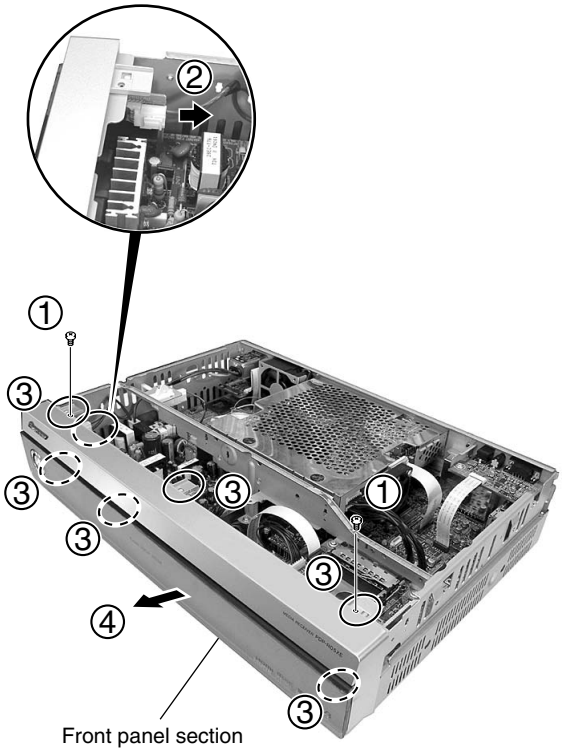
2 Front panel section

① Remove the two screws.

② Disconnect the one connector.

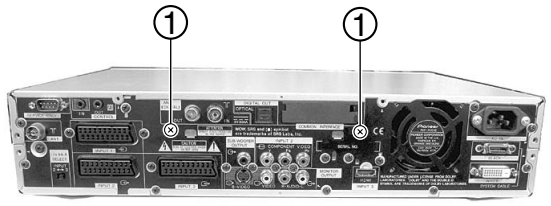
③ Unhook the six hooks.

④ Remove the front panel section.



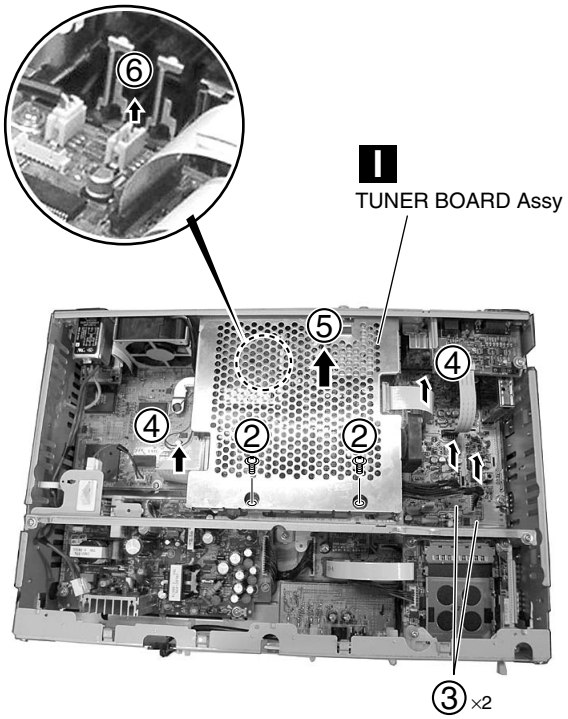
3 TUNER BOARD Assy

① Remove the two screws.

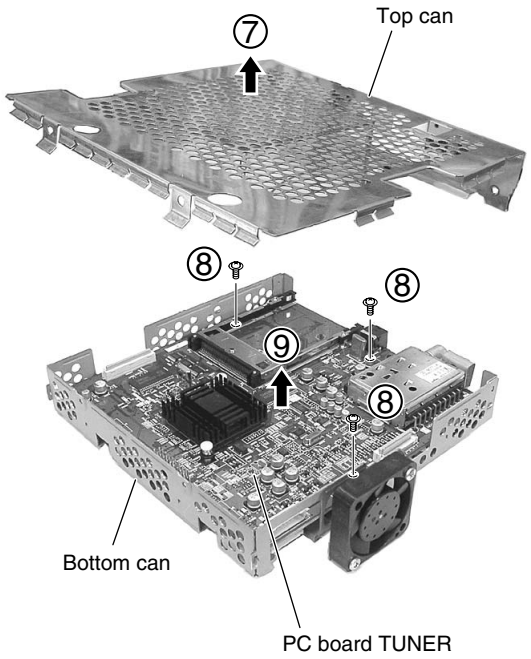


● **Rear view**

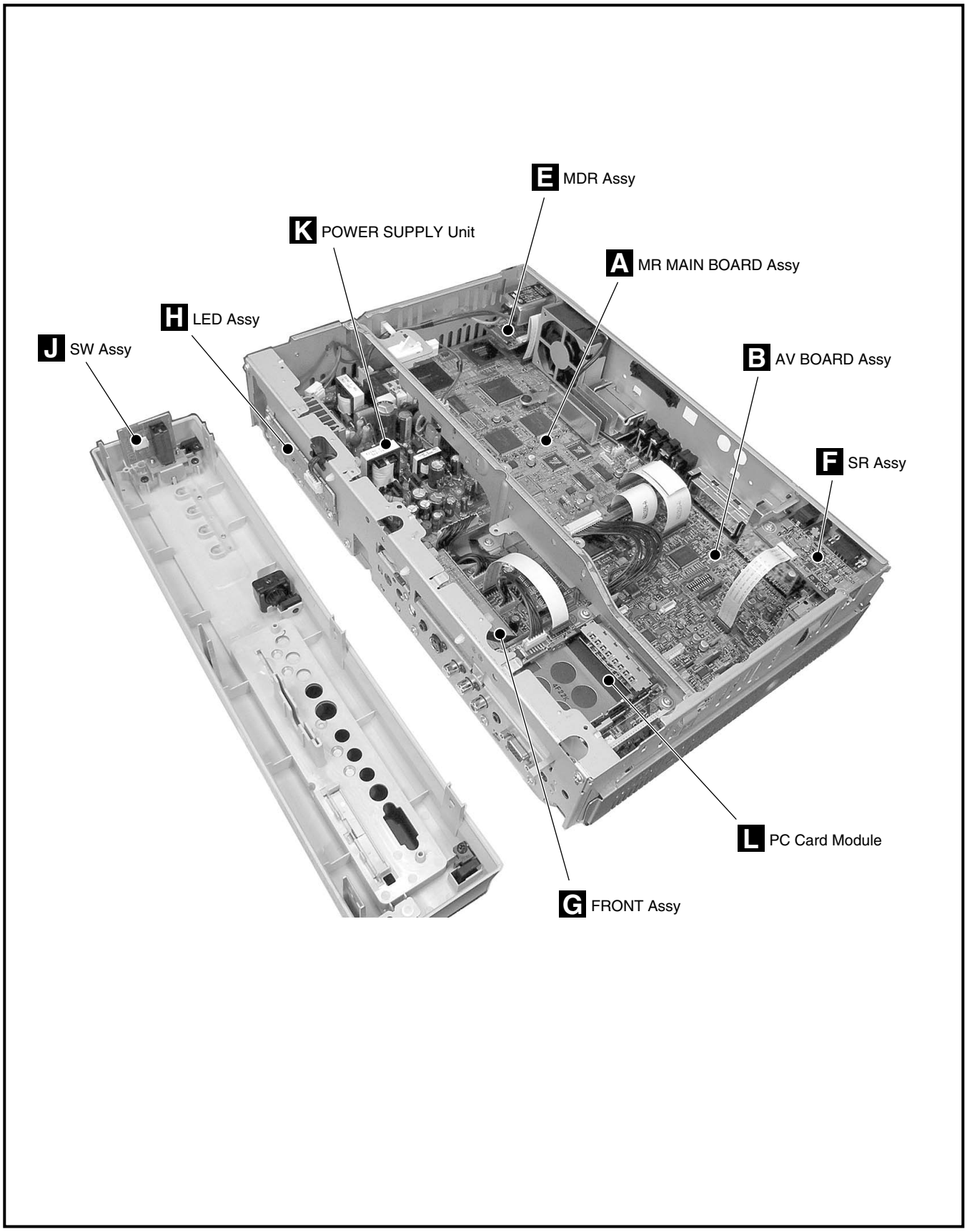
② Remove the two screws.
③ Disconnect the two connectors.
④ Disconnect the two flexible cables.
⑤ Remove the TUNER BOARD Assy.
⑥ Disconnect the one connector.



⑦ Remove the top can.
⑧ Remove the three screws.
⑨ Remove the PC board TUNER.



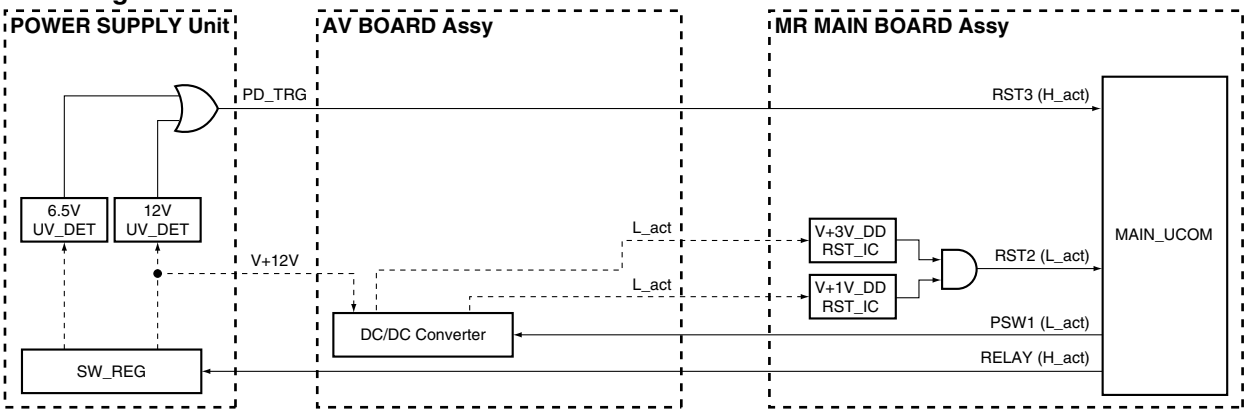
PCB Location



7.2 EXPLANATION
7.2.1 PROCESSING IN ABNORMALITY

Power supply and DC-DC converter

● **Circuit diagram**

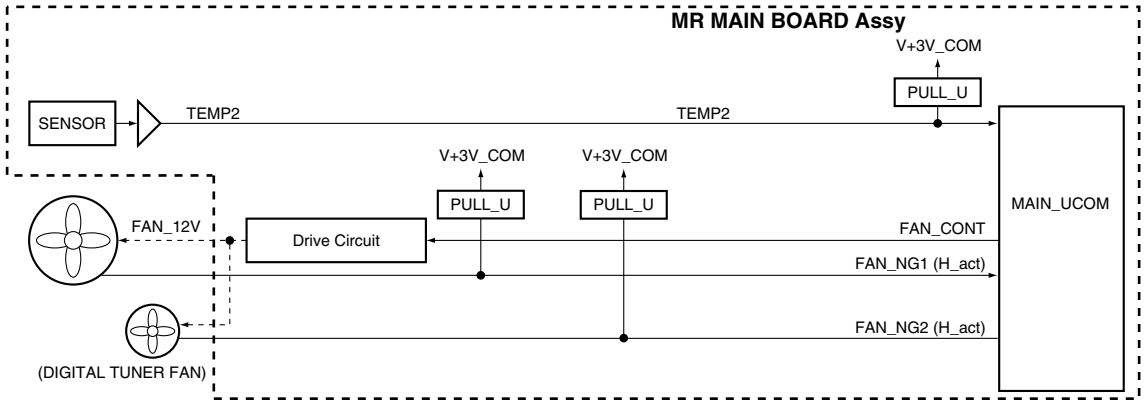


● **Specifications for port monitoring**

Port Name	SD/PD Indication	Assigned Pin	Active
PD_MAIN (PD_TRG)	MR_PWR	41	Power-down with H
RST2	ASIC power supply	98	Shutdown with L

Fan and temperature sensor

● **Circuit diagram**

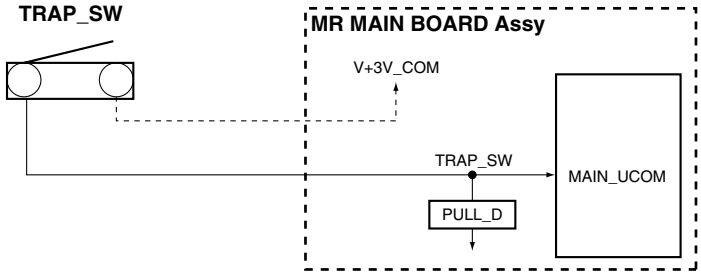


● **Specifications for port monitoring**

Port Name	SD/PD Indication	Assigned Pin	Active
FAN_NG 1	FAN	31	Shutdown with H
FAN_NG 2	FAN	32	Shutdown with H
TEMP2	Abnormally high temperature in the MR	50	Shutdown when the value exceeds the predetermined value

TRAP_SW

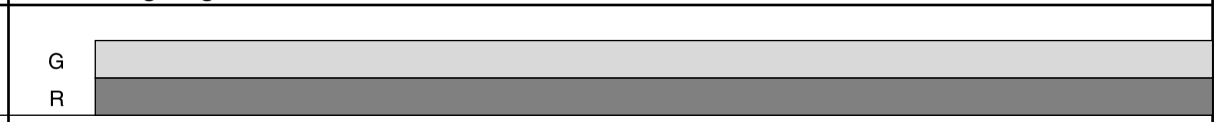
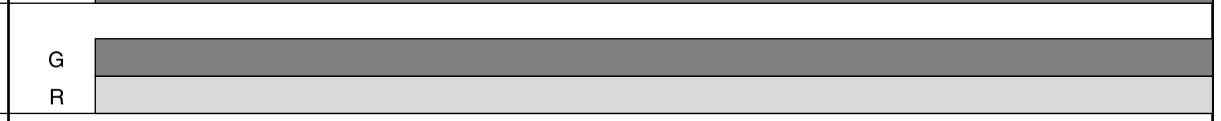
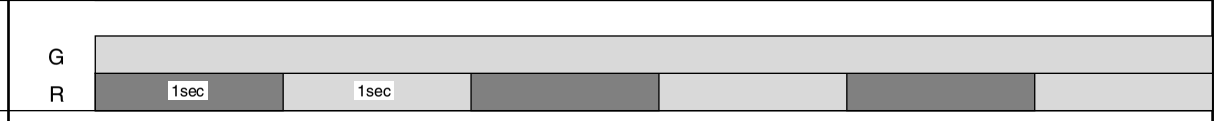
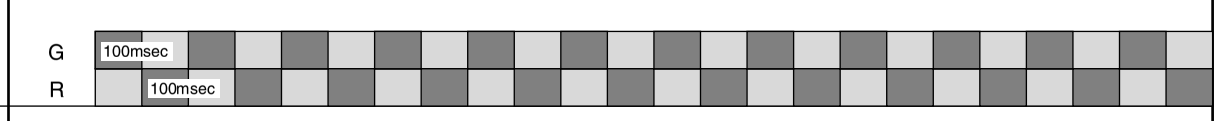
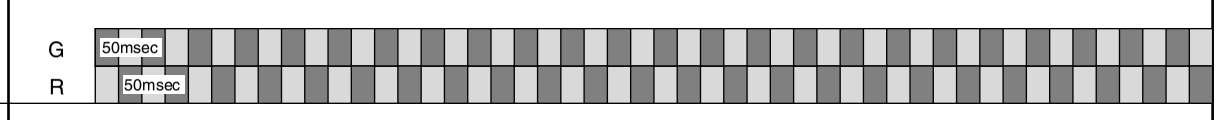
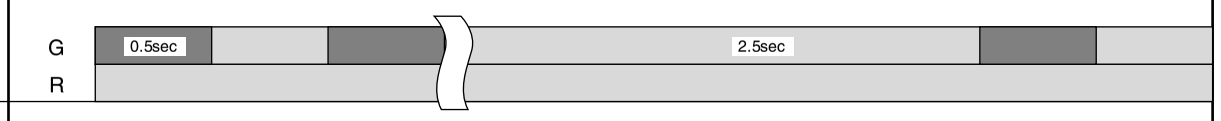
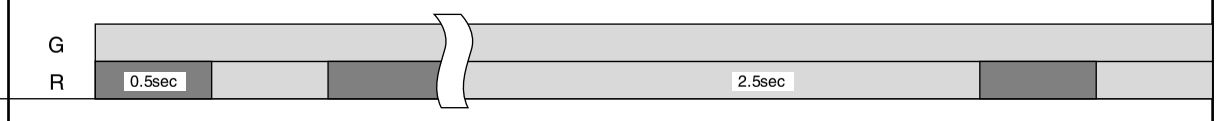
● **Circuit diagram**



● **Specifications for port monitoring**

Port Name	SD/PD Indication	Assigned Pin	Active
TRAP_SW	Modification tried	30	OFF with L

LED-lighting patterns

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

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

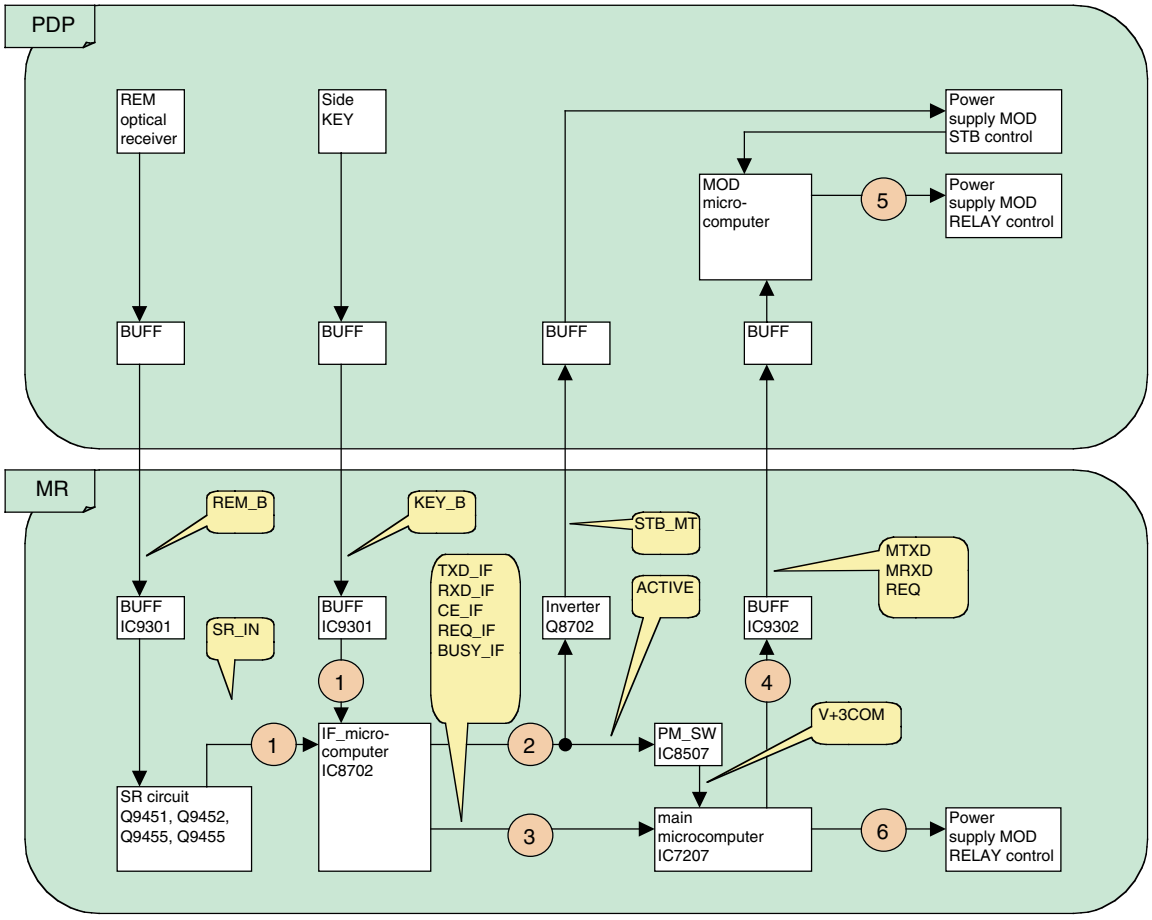
■ Defective points assumed from the number of times of LED flashing

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	GRN	RED	GRN				
	Green 1	Red		SD	Panel drive IC	*2	None
	Green 2	Red			Module section IIC	*2	None
	Green 3	Red			Power decrease of DIGITAL-DC-DC	*2	None
	Green 4	Red			Panel having abnormally high temperature	*2	The power is shut down, because the internal temperature has risen. Check the temperature surrounding the PDP. (SD04)
	Green 5	Red			Short-circuiting of the speakers	*2	The power is shut down, because the protection circuit inside the unit is activated. Check if the speaker cables are short-circuited. (SD05)
Red			Green 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-434PU or PDP-504PU.) Defective main microcomputer (IC7207) Failure in communication (TXD_MD, RXD_MD, REQ_MD) between the panel's module microcomputer and IC7207 (main microcomputer)	None
Red			Green 7		3-wire serial connection of the main section	Defective IC7004 or its peripheral circuits Failure in communication (TXD_IC, XD_IC2, CLK_IC2, IC2_CE, IC2_EMG) between IC7004 and IC7207 (main microcomputer) Defective IC7101 or its peripheral circuits Failure in communication (TXD_IC3, RXD_IC3, CLK_IC3, IC3_CE, IC3_REQ, IC3_BUSY) between IC7101 and IC7207 (main microcomputer)	None
Red			Green 8		IIC of the main section	Defective IC6107 (CD_MAIN) or its peripheral circuits Defective IC6255 (CD_SUB) or its peripheral circuits Defective IC6402 (AD_MAIN) or its peripheral circuits Defective IC6602 (AD_SUB) or its peripheral circuits Defective IC6881 (HDMI_2) or its peripheral circuits Defective IC6951 (BUS_SW) or its peripheral circuits Defective IC7401 (TX) or its peripheral circuits Defective U7501 (TU) or its peripheral circuits Defective U7502 (TU) or its peripheral circuits Defective IC8002 (AV_SW) or its peripheral circuits Defective IC8005 (RGB_SW) or its peripheral circuits Defective IC7205 (E2P) or its peripheral circuits Failure in communication (SCL_AV, SDA_AV, SCL_MAIN, SDA_MAIN, SCL_HDMI, SDA_HDMI, SCL_EP, SDA_EP) between one of the above devices and IC7207 (main microcomputer)	None
Red			Green 9		Main microcomputer	Defective IC7207 (main microcomputer) Defective flexible cable for communication between the MR MAIN BOARD Assy and the AV BOARD Assy Failure in communication (TXD_IF, RXD_IF, CLK_IF, IF_CE, IF_BUSY) between IC7207 (main microcomputer) and IC8702	None
Red			Green 10		Fan	Failure in the fan motor, or the fan stopped because of dust attached to the fan	None
Red			Green 11		MR or unit having abnormally high temperature	The Media Receiver or the unit being used at high temperature	The power is shut down, because the internal temperature has risen. Check the temperature surrounding the Media Receiver. (SD11)
Red			Green 12		Digital tuner (U.S. model)	Defective DTV tuner Failure in communication (TXD_DT, RXD_DT) between the digital tuner and IC8202 (main microcomputer)	None
Red			Green 13		ASIC power supply (DC-DC)	Defective U8502 (DD_CON) or short-circuiting elsewhere	None
Red			Green 14		IF_E2P	Defective IC8705 (IF_E2P) or its peripheral circuits	None
Red		Red 1		PD	MR PWR	Defective Power Supply Assy of the Media Receiver, or power short-circuiting in another Assy	None
Red 2		Red			POWER	*2	None
Red 3		Red			SCAN	*2	None
Red 4		Red			SCN-5V	*2	None
Red 5		Red			Y-DRIVE	*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-DRIVE	*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

*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-435PE or PDP-505PE.

7.2.2 SEQUENCE

R05 series Power-on sequence



REM_B Comment in the balloon is the reference signal name.
Please confirm the wiring number of PDP side with the service manual of PDP side.

① : Remote controller signal (or, KEY signal) is input into IF microcomputer.
② : IF microcomputer supplies the power supply to Main microcomputer and MOD microcomputer.
③ : IF microcomputer communicates the operation information of Remote controller (or KEY) to Main microcomputer.
④ : Main microcomputer sends in the activation order to MOD microcomputer.
⑤ : MOD microcomputer controls the relay of PDP power supply MOD, and activate the power supply of PDP side.
⑥ : Main microcomputer controls the relay of MR power supply MOD, and activate the power supply of MR side.

7.3 PARTS
7.3.1 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

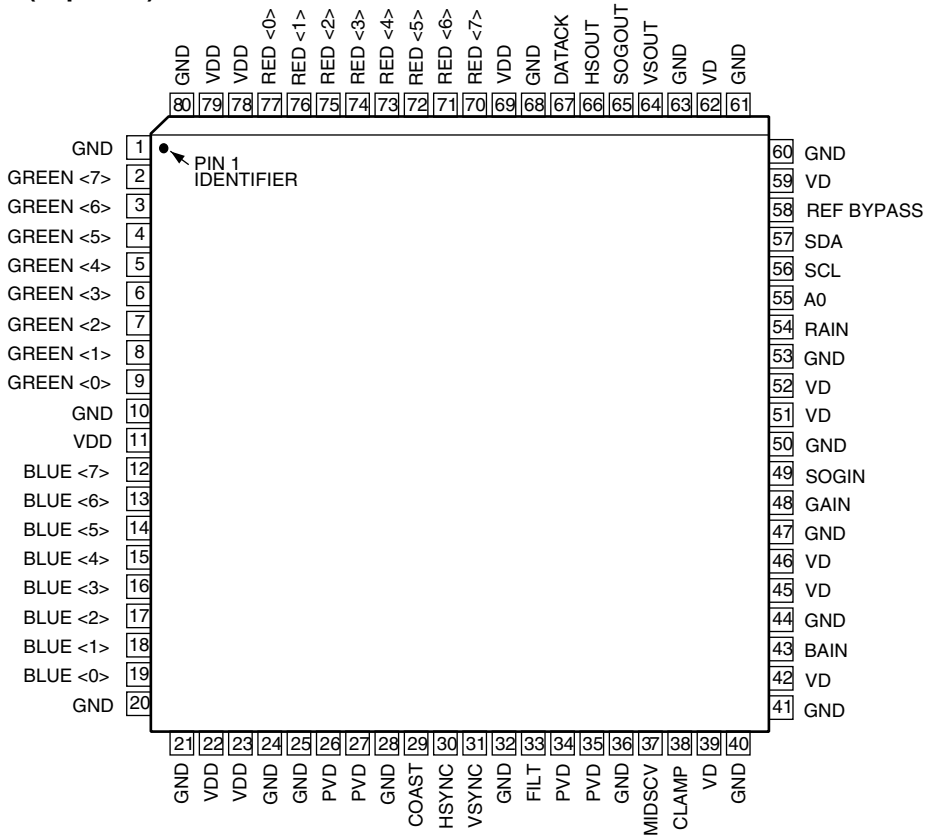
● **List of IC**

AD80058-K, SM5301BS, BA7078AF, SII9993CTG100, HY57V643220CT-7 (or K4S643232H-TC60-K), MBM29PL3200BE70PFV, SII170BCLG64, CXA2069Q, MSP3417G, TDA9818TS, SDA6000

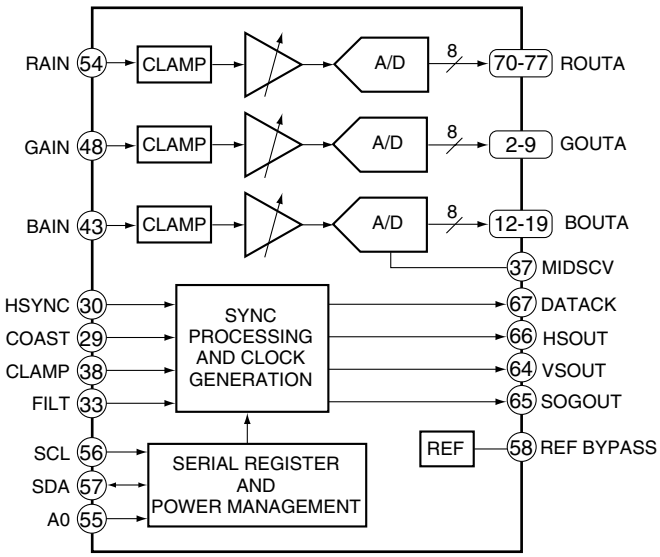
■ AD80058-K (MR MAIN BOARD ASSY : IC6402, IC6602)

• 110 MSPS Analog Interface

● **Pin Arrangement (Top view)**



● **Block Diagram**



● Pin Function

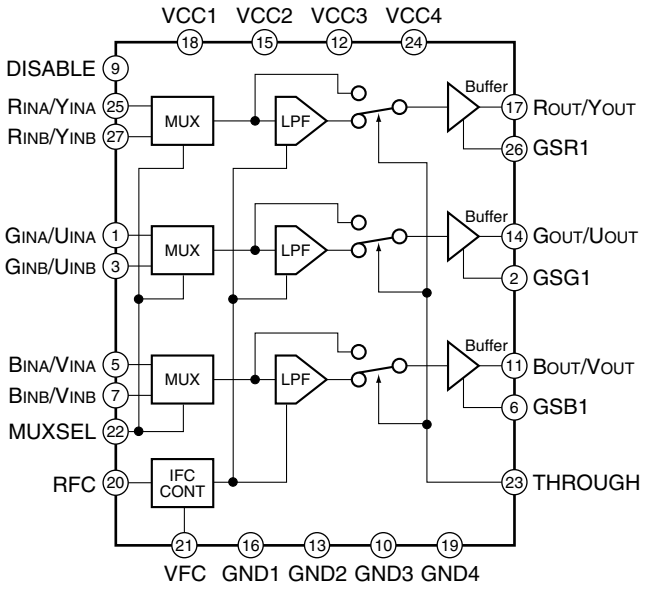
No.	Pin Name	I/O	Pin Function
1	GND	–	Ground
2	GREEN 7	O	Converter Green output (MSB)
3	GREEN 6	O	Converter Green output
4	GREEN 5	O	Converter Green output
5	GREEN 4	O	Converter Green output
6	GREEN 3	O	Converter Green output
7	GREEN 2	O	Converter Green output
8	GREEN 1	O	Converter Green output
9	GREEN 0	O	Converter Green output
10	GND	–	Ground
11	VDD	–	Power supply (3.3V)
12	BLUE 7	O	Converter Blue output (MSB)
13	BLUE 6	O	Converter Blue output
14	BLUE 5	O	Converter Blue output
15	BLUE 4	O	Converter Blue output
16	BLUE 3	O	Converter Blue output
17	BLUE 2	O	Converter Blue output
18	BLUE 1	O	Converter Blue output
19	BLUE 0	O	Converter Blue output
20	GND	–	Ground
21	GND	–	Ground
22	VDD	–	Power supply (3.3V)
23	VDD	–	Power supply (3.3V)
24	GND	–	Ground
25	GND	–	Ground
26	PVD	–	PLL power supply (3.3V)
27	PVD	–	PLL power supply (3.3V)
28	GND	–	Ground
29	COAST	I	PLL COAST signal input
30	HSYNC	I	Horizontal sync. input
31	VSYNC	I	Vertical sync. input
32	GND	–	Ground
33	FILT	–	External filter connection pin for built-in PLL
34	PVD	–	PLL power supply (3.3V)
35	PVD	–	PLL power supply (3.3V)
36	GND	–	Ground
37	MIDSCV	–	Internal middle scale voltage bias
38	CLAMP	I	Clamp input (External clamp signal)
39	VD	–	Analog power supply (3.3V)
40	GND	–	Ground
41	GND	–	Ground
42	VD	–	Analog power supply (3.3V)
43	BAIN	I	Analog input for converter B
44	GND	–	Ground
45	VD	–	Analog power supply (3.3V)

No.	Pin Name	I/O	Pin Function
46	VD	–	Analog power supply (3.3V)
47	GND	–	Ground
48	GAIN	I	Analog input for converter G
49	SOGIN	I	Input for Sync-on Green
50	GND	–	Ground
51	VD	–	Analog power supply (3.3V)
52	VD	–	Analog power supply (3.3V)
53	GND	–	Ground
54	RAIN	I	Analog input for converter R
55	A0	I	Address input 1 of serial port
56	SCL	I	Data clock (max. 100kHz) of serial port
57	SDA	I/O	Data input/output of serial port
58	REF BYPASS	–	Internal reference bypass
59	VD	–	Analog power supply (3.3V)
60	GND	–	Ground
61	GND	–	Ground
62	VD	–	Analog power supply (3.3V)
63	GND	–	Ground
64	VSOUT	O	VSYNC output (phasing with DATACLK)
65	SOGOUT	O	Sync-on-Green slicer output
66	HSOUT	O	HSYNC output (phasing with DATACLK)
67	DATACLK	O	Data input/output clock
68	GND	–	Ground
69	VDD	–	Power supply (3.3V)
70	RED 7	O	Converter Red output (MSB)
71	RED 6	O	Converter Red output
72	RED 5	O	Converter Red output
73	RED 4	O	Converter Red output
74	RED 3	O	Converter Red output
75	RED 2	O	Converter Red output
76	RED 1	O	Converter Red output
77	RED 0	O	Converter Red output
78	VDD	–	Power supply (3.3V)
79	VDD	–	Power supply (3.3V)
80	GND	–	Ground

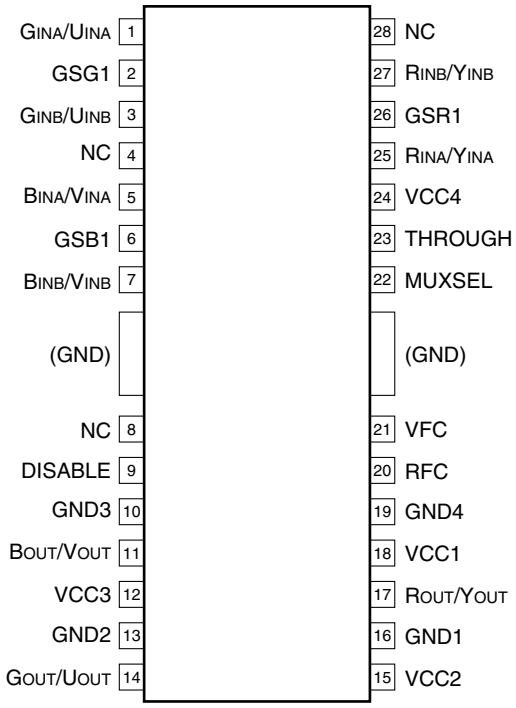
■ SM5301BS (MR MAIN BOARD ASSY : IC6401, IC6601)

• Video Filter

● Block Diagram



● Pin Arrangement (Top view)



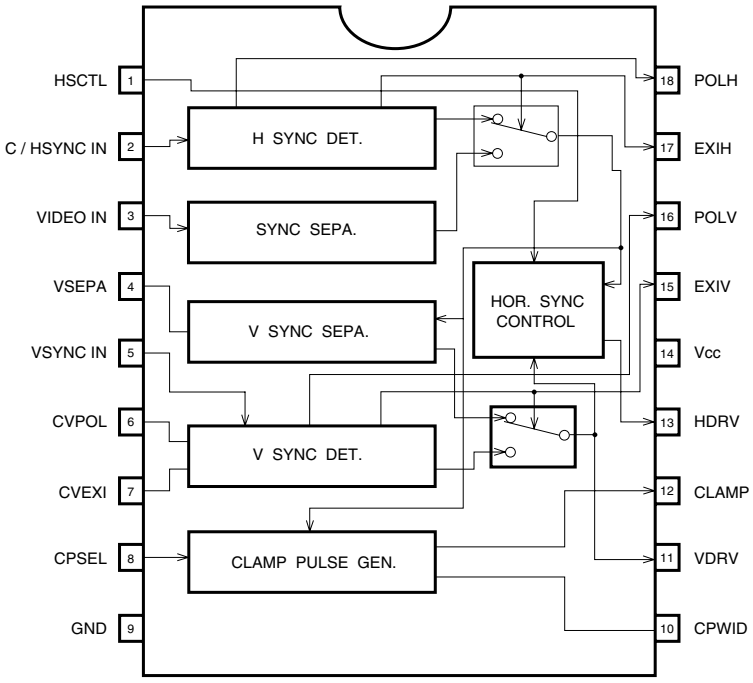
● **Pin Function**

No.	Pin Name	I/O	Pin Function
1	GINA/UINA	I	Analog GINA or UINA signal input. Sync signal is input on SYNCIN pin.
2	GSG1	I	GOUT/UOUT output buffer gain set input
3	GINB/UINB	I	Analog GINB or UINB signal input. Sync signal is input on SYNCIN pin.
4	(NC)	–	No connection
5	BINA/VINA	I	Analog BINA or VINA signal input. Sync signal is input on SYNCIN pin.
6	GSB1	I	BOUT/VOUT output buffer gain set input
7	BINB/VINB	I	Analog BINB or VINB signal input. Sync signal is input on SYNCIN pin.
8	(NC)	–	No connection
9	DISABLE	I	Power save function. Built-in pull-down resistor. L : Enable H : Disable (Output pins: ROUT/YOUT, GOUT/UOUT, and BOUT/VOUT are high impedance.)
10	GND3	–	Analog ground
11	BOUT/VOUT	O	B/V signal output
12	VCC3	–	Analog 5V supply
13	GND2	–	Analog ground
14	GOUT/UOUT	O	G/U signal output
15	VCC2	–	Analog 5V supply
16	GND1	–	Analog ground
17	ROUT/YOUT	O	R/Y signal output
18	VCC1	–	Analog 5V supply
19	GND4	–	Analog ground
20	RFC	–	LPF (lowpass filter) cutoff frequency setting resistor connection
21	VFC	I	LPF (lowpass filter) cutoff frequency setting voltage input
22	MUXSEL	I	Input select signal. Built-in pull-down resistor. L : XINA pin select H : XINB pin select
23	THROUGH	I	Filter through Built-in pull-down resistor. L : Filter function H : Filter through (buffer only)
24	VCC4	–	Analog 5V supply
25	RINA/YINA	I	Analog RINA or YINA signal input. Sync signal is input on SYNCIN pin.
26	GSR1	I	ROUT/YOUT output buffer gain set input
27	RINB/YINB	I	Analog RINB or YINB signal input. Sync signal is input on SYNCIN pin.
28	(NC)	–	No connection

■ BA7078AF (MR MAIN BOARD ASSY : IC6404, IC6604)

• Multi Sync Separation IC

● Block Diagram



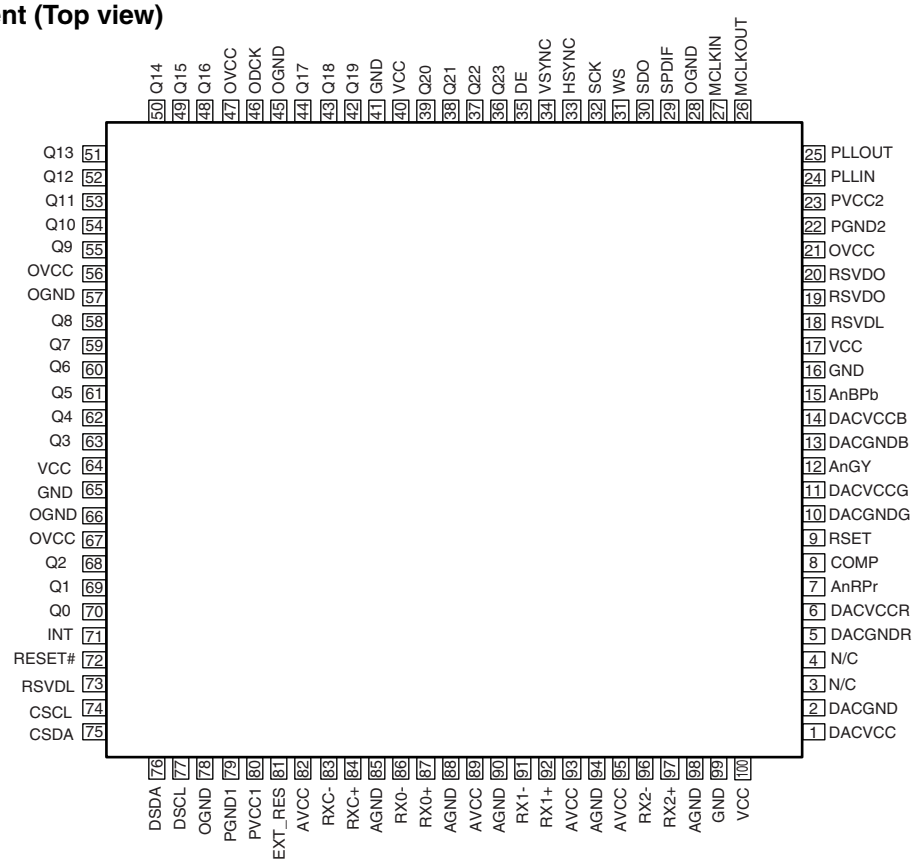
● **Pin Function**

No.	Pin Name	Pin Function
1	HSCTL	HDRV output Used to select whether to output the VDRV section of the HDRV output signal. High : VDRV section of HDRV is output Low : VDRV section of HDRV is not output
2	C/HSYNC IN	Composite sync / H SYNC input Input either the composite synchronization signal or the horizontal synchronization signal. Input is clamped, and is initiated by capacitor coupling.
3	VIDEO IN	SYNC ON VIDEO input Inputs the SYNC ON VIDEO signal(green). Input is sink chip clamped. Input is initiated by capacitor coupling.
4	VSEPA	f-V conversion Converts the horizontal synchronization signal frequency into a voltage. The voltage generated is proportional to the frequency of the horizontal synchronization signal. Attach a 0.56 μF capacitor between the ground pins.
5	VSYNC IN	V SYNC input Inputs the vertical synchronization signal.
6	CVPOL	Vertical polarity integration Integrates the vertical synchronization signal polarity detection circuit. Attach a 1.5 μF capacitor between this pin and the ground.
7	CVEXI	Vertical existence integration Integrates the vertical synchronization signal existence detection circuit. Attach a 1 μF capacitor between this pin and the ground.
8	CPSEL	Setting the clamp position Used to set the clamp pulse generation position to either the front or back edge of HSYNC High : The front edge is the generation position Open : Composite / H SYNC IN : The front edge is the generation position VIDEO IN : The back edge is the generation position Low : The back edge is the generation position
9	GND	Ground
10	CPWID	Setting the clamp pulse width Sets the clamp pulse width according to the attached time constant. Attach a resistor between this pin and VCC and, a capacitor between this pin and GND. When R = 3.9kΩ and C = 100pF, pulse width is approximately 400 ns. Set the resistor to register an abnormality at 1kΩ.
11	VDRV	VDRV output Outputs the vertical synchronization signal. The output signal has positive polarity.
12	CLAMP	Clamp output Outputs the clamp pulse generated from the vertical synchronization signal. The output signal has a positive polarity.
13	HDRV	HDRV output Outputs the clamp pulse generated from the horizontal synchronization signal. The output signal has positive polarity.
14	Vcc	Power supply
15	EXIV	Vertical existence output Indecates whether the vertical synchronization signal exists.
16	POLV	Vertical polarity output Indicates the polarity of the vertical synchronization signal.
17	EXIH	Horizontal existence output Indicates whether the horizontal synchronization signal exists.
18	POLH	Horizontal polarity output Indicates the polarity of the horizontal synchronization signal.

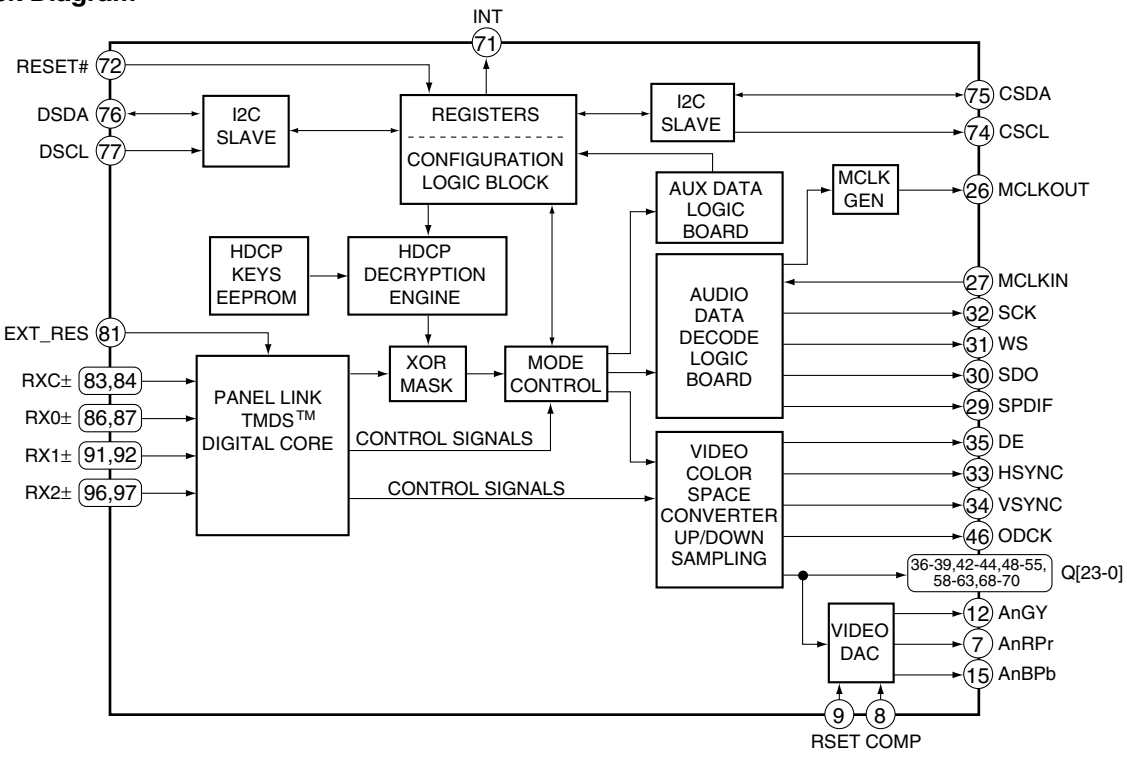
■ SII9993CTG100 (MR MAIN BOARD ASSY : IC6881, IC6801)

• HDCP Panel Link Receiver

● Pin Arrangement (Top view)



● Block Diagram



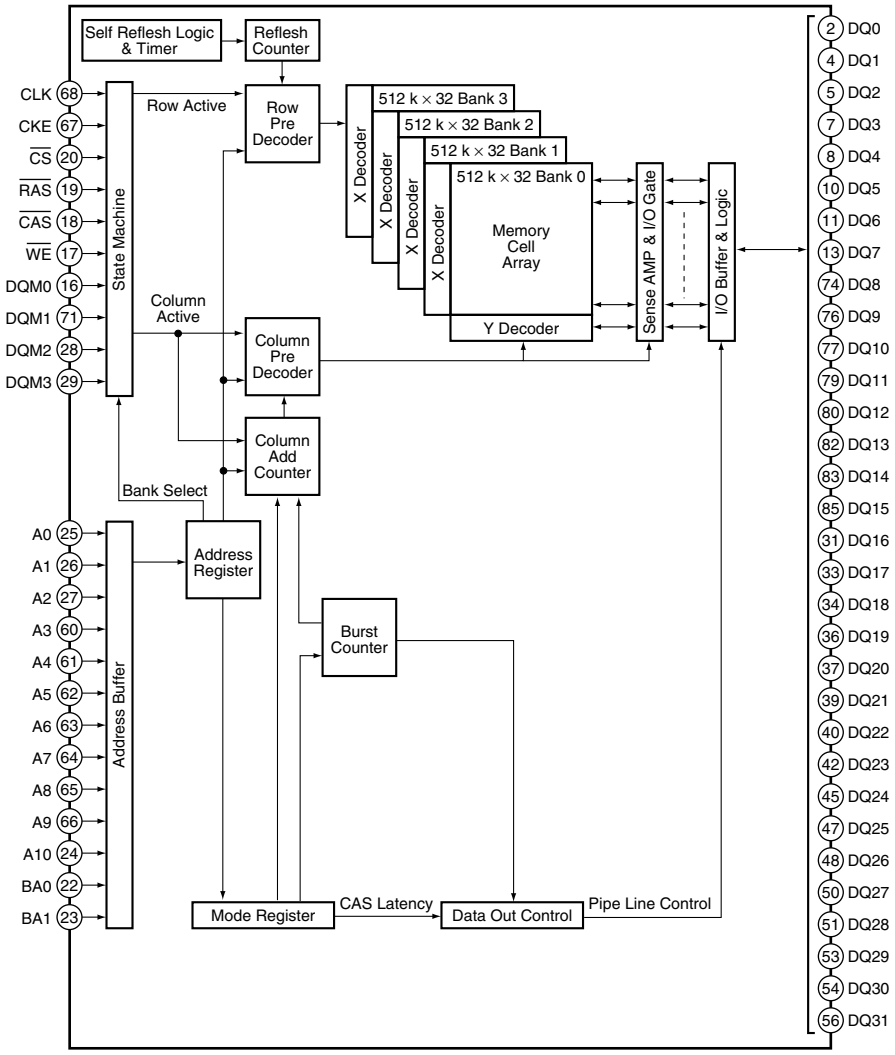
● Pin Function

No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
1	DACVCC	–	DAC power supply (3.3V)	51	Q13	O	24-bit output pixel data bus
2	DACGND	–	DAC ground	52	Q12	O	24-bit output pixel data bus
3	N/C	–	No connection	53	Q11	O	24-bit output pixel data bus
4	N/C	–	No connection	54	Q10	O	24-bit output pixel data bus
5	DACGNDR	–	DAC Red ground	55	Q9	O	24-bit output pixel data bus
6	DACVCCR	–	DAC Red power supply (3.3V)	56	OVCC	–	Output bus power supply (3.3V)
7	AnRPr	O	Red, Pr output of analog video	57	OGND	–	Output bus ground
8	COMP	I	For reference amp. correction of DAC inside	58	Q8	O	24-bit output pixel data bus
9	RSET	I	Full scale adjustment resistor input	59	Q7	O	24-bit output pixel data bus
10	DACGNDG	–	DAC Green ground	60	Q6	O	24-bit output pixel data bus
11	DACVCCG	–	DAC Green power supply (3.3V)	61	Q5	O	24-bit output pixel data bus
12	AnGY	O	Green, Y output of analog video	62	Q4	O	24-bit output pixel data bus
13	DACGNDB	–	DAC Blue ground	63	Q3	O	24-bit output pixel data bus
14	DACVCCB	–	DAC Blue power supply (3.3V)	64	VCC	–	Digital power supply (3.3V)
15	AnBPb	O	Blue, Pb output of analog video	65	GND	–	Digital ground
16	GND	–	Digital ground	66	OGND	–	Output bus ground
17	VCC	–	Digital power supply (3.3V)	67	OVCC	–	Output bus power supply (3.3V)
18	RSVDL	I	Reserved Fixed to low.	68	Q2	O	24-bit output pixel data bus
19	RSVDD	O	Reserved No connection	69	Q1	O	24-bit output pixel data bus
20	RSVDD	O	Reserved No connection	70	Q0	O	24-bit output pixel data bus
21	OVCC	–	Output bus power supply (3.3V)	71	INT	O	Interruption output
22	PGND2	–	Audio PLL ground	72	RESET#	I	Reset Activ low.
23	PVCC2	–	Audio PLL power supply (3.3V)	73	RSVDL	I	Reserved Fixed to low.
24	PLLIN	I/O	PLL filter input	74	CSCL	I	Configuration I2C clock
25	PLLOUT	I/O	PLL filter output	75	CSDA	I/O	Configuration I2C data
26	MCCLKOUT	O	Audio master clock output	76	DSDA	I/O	DDC I2C data
27	MCCLKIN	I	Reference audio master clock input	77	DSCL	I	DDC I2C clock
28	OGND	–	Output bus ground	78	OGND	–	Output bus ground
29	SPDIF	O	SPDIF audio output	79	PGND1	–	PLL ground
30	SDO	O	I2S serial data output	80	PVCC1	–	PLL power supply (3.3V)
31	WS	O	I2S word selecting output	81	EXT_RES	I	Input impedance adjustment
32	SCK	O	I2S serial clock output	82	AVCC	–	Analog power supply (3.3V)
33	HSYNC	O	Horizontal sync. control signal output	83	RXC-	I	TMDS data input
34	VSYNC	O	Vertical sync. control signal output	84	RXC+	I	TMDS data input
35	DE	O	Data enable	85	AGND	–	Analog ground
36	Q23	O	24-bit output pixel data bus	86	RX0-	I	TMDS data input
37	Q22	O	24-bit output pixel data bus	87	RX0+	I	TMDS data input
38	Q21	O	24-bit output pixel data bus	88	AGND	–	Analog ground
39	Q20	O	24-bit output pixel data bus	89	AVCC	–	Analog power supply (3.3V)
40	VCC	–	Digital power supply (3.3V)	90	AGND	–	Analog ground
41	GND	–	Digital ground	91	RX1-	I	TMDS data input
42	Q19	O	24-bit output pixel data bus	92	RX1+	I	TMDS data input
43	Q18	O	24-bit output pixel data bus	93	AVCC	–	Analog power supply (3.3V)
44	Q17	O	24-bit output pixel data bus	94	AGND	–	Analog ground
45	OGND	–	Output bus ground	95	AVCC	–	Analog power supply (3.3V)
46	ODCK	O	Data clock output	96	RX2-	I	TMDS data input
47	OVCC	–	Output bus power supply (3.3V)	97	RX2+	I	TMDS data input
48	Q16	O	24-bit output pixel data bus	98	AGND	–	Analog ground
49	Q15	O	24-bit output pixel data bus	99	GND	–	Digital ground
50	Q14	O	24-bit output pixel data bus	100	VCC	–	Digital power supply (3.3V)

■ HY57V643220CT-7 (MR MAIN BOARD ASSY : IC7001, IC7002) (or K4S643232H-TC60-K)

• Synchronous DRAM

● Block Diagram



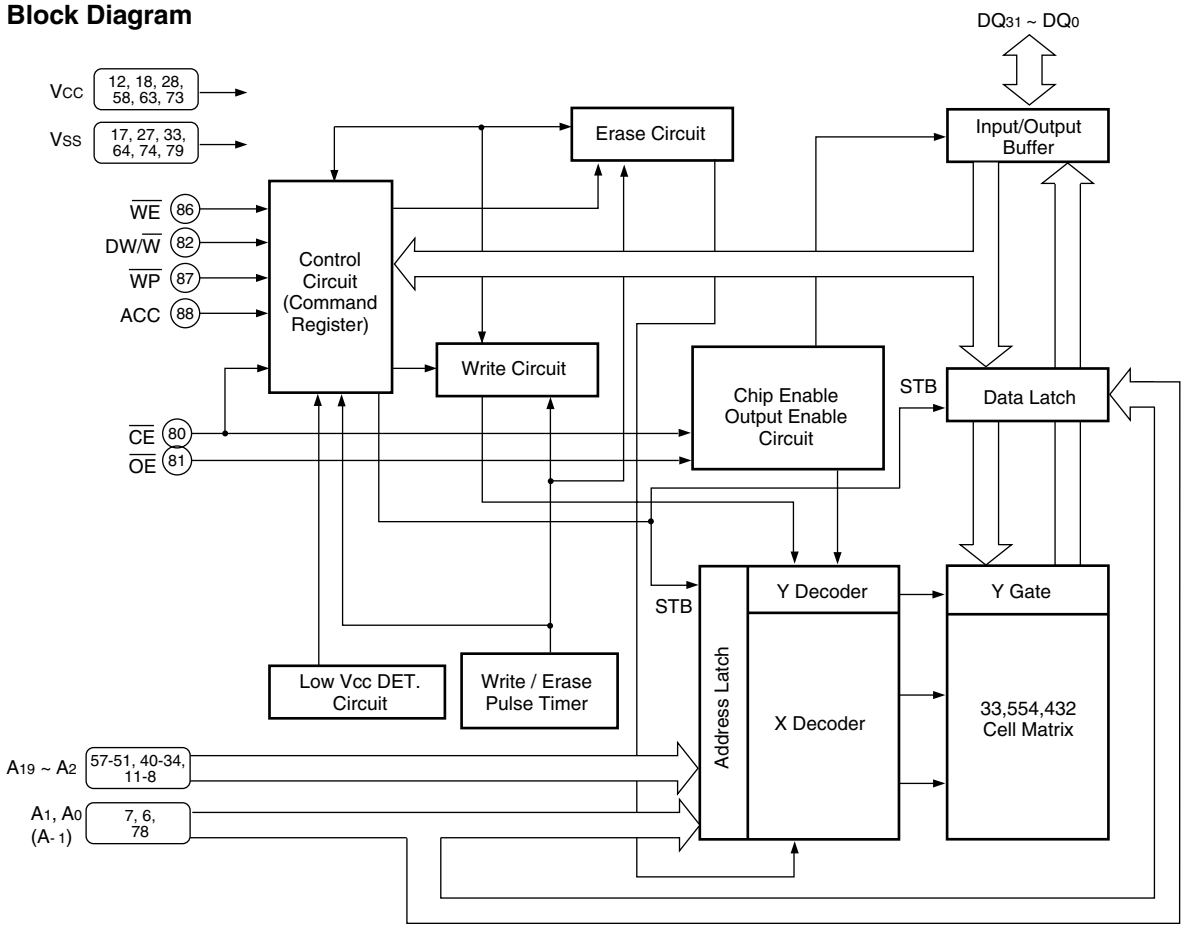
● **Pin Function**

No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
1	VDD	–	Power supply	44	VSS	–	Ground
2	DQ0	I/O	Data input/output	45	DQ24	I/O	Data input/output
3	VDDQ	–	Power supply for output buffer	46	VSSQ	–	Ground for output buffer
4	DQ1	I/O	Data input/output	47	DQ25	I/O	Data input/output
5	DQ2	I/O	Data input/output	48	DQ26	I/O	Data input/output
6	VSSQ	–	Ground for output buffer	49	VDDQ	–	Power supply for output buffer
7	DQ3	I/O	Data input/output	50	DQ27	I/O	Data input/output
8	DQ4	I/O	Data input/output	51	DQ28	I/O	Data input/output
9	VDDQ	–	Power supply for output buffer	52	VSSQ	–	Ground for output buffer
10	DQ5	I/O	Data input/output	53	DQ29	I/O	Data input/output
11	DQ6	I/O	Data input/output	54	DQ30	I/O	Data input/output
12	VSSQ	–	Ground for output buffer	55	VDDQ	–	Power supply for output buffer
13	DQ7	I/O	Data input/output	56	DQ31	I/O	Data input/output
14	NC	–	No connection	57	NC	–	No connection
15	VDD	–	Power supply	58	VSS	–	Ground
16	DQM0	I	Data input/output mask	59	DQM3	I	Data input/output mask
17	/WE	I	Write enable	60	A3	I	Address input
18	/CAS	I	Column address strobe	61	A4	I	Address input
19	/RAS	I	Row address strobe	62	A5	I	Address input
20	/CS	I	Chip select input	63	A6	I	Address input
21	NC	–	No connection	64	A7	I	Address input
22	BA0	I	Bank address input	65	A8	I	Address input
23	BA1	I	Bank address input	66	A9	I	Address input
24	A10/AP	I	Address input	67	CKE	I	Clock enable
25	A0	I	Address input	68	CLK	I	System clock input
26	A1	I	Address input	69	NC	–	No connection
27	A2	I	Address input	70	NC	–	No connection
28	DQM2	I	Data input/output mask	71	DQM1	I	Data input/output mask
29	VDD	–	Power supply	72	VSS	–	Ground
30	NC	–	No connection	73	NC	–	No connection
31	DQ16	I/O	Data input/output	74	DQ8	I/O	Data input/output
32	VSSQ	–	Ground for output buffer	75	VDDQ	–	Power supply for output buffer
33	DQ17	I/O	Data input/output	76	DQ9	I/O	Data input/output
34	DQ18	I/O	Data input/output	77	DQ10	I/O	Data input/output
35	VDDQ	–	Power supply for output buffer	78	VSSQ	–	Ground for output buffer
36	DQ19	I/O	Data input/output	79	DQ11	I/O	Data input/output
37	DQ20	I/O	Data input/output	80	DQ12	I/O	Data input/output
38	VSSQ	–	Ground for output buffer	81	VDDQ	–	Power supply for output buffer
39	DQ21	I/O	Data input/output	82	DQ13	I/O	Data input/output
40	DQ22	I/O	Data input/output	83	DQ14	I/O	Data input/output
41	VDDQ	–	Power supply for output buffer	84	VSSQ	–	Ground for output buffer
42	DQ23	I/O	Data input/output	85	DQ15	I/O	Data input/output
43	VDD	–	Power supply	86	VSS	–	Ground

■ MBM29PL3200BE70PFV (MR MAIN BOARD ASSY : IC7151, IC7152)

• Page Mode Flash Memory

● Block Diagram



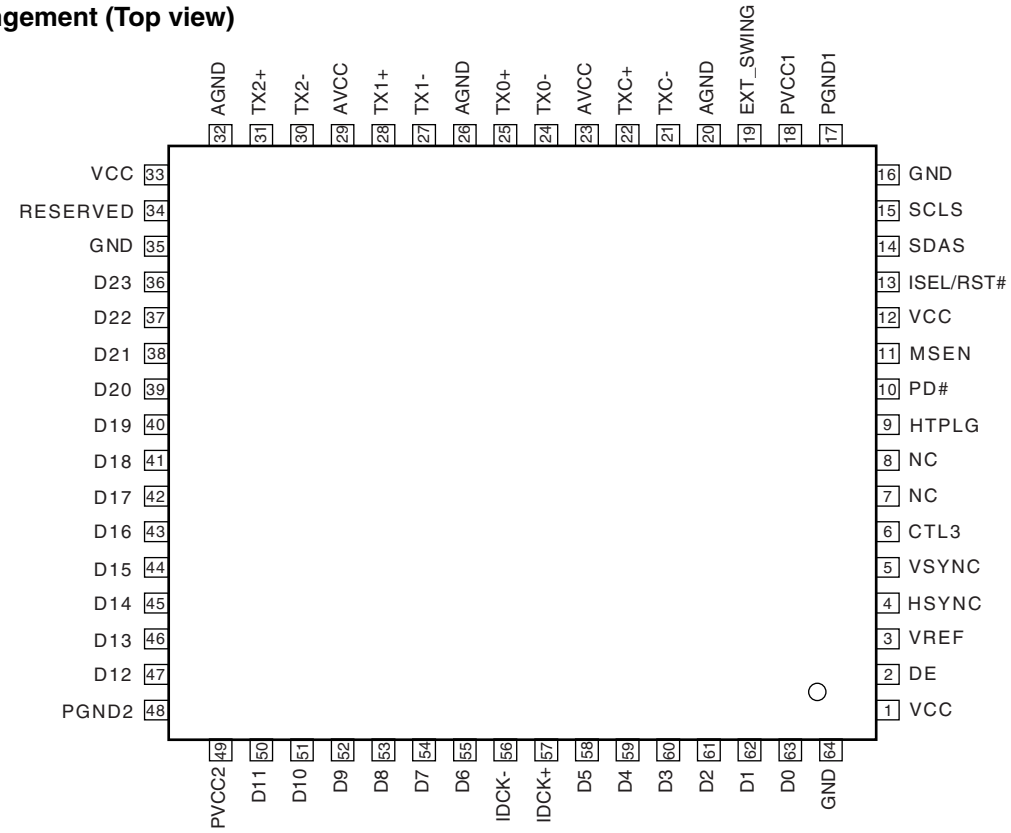
● Pin Function

No.	Pin Name	I/O	Pin Function
57-51, 40-34, 11-6, 78	A_{19} - A_0, A_{-1}	I	Address input
78-75, 72-65, 62-59, 32-19, 26-19, 16-13	DQ_{31} - DQ_0	I/O	Data input/output
80	CE	I	Chip enable
81	OE	I	Output enable
86	WE	I	Write enable
82	DW/W	I	16 bit, 32 bit mode switch
87	WP	I	Write protect
88	ACC	I	Acceleration
17, 27, 33, 64, 74, 79	V_{SS}	–	Ground
12, 18, 28, 58, 63, 73	V_{CC}	–	Power supply
1-5, 41-50, 83-85, 89, 90	N.C.	–	No connection

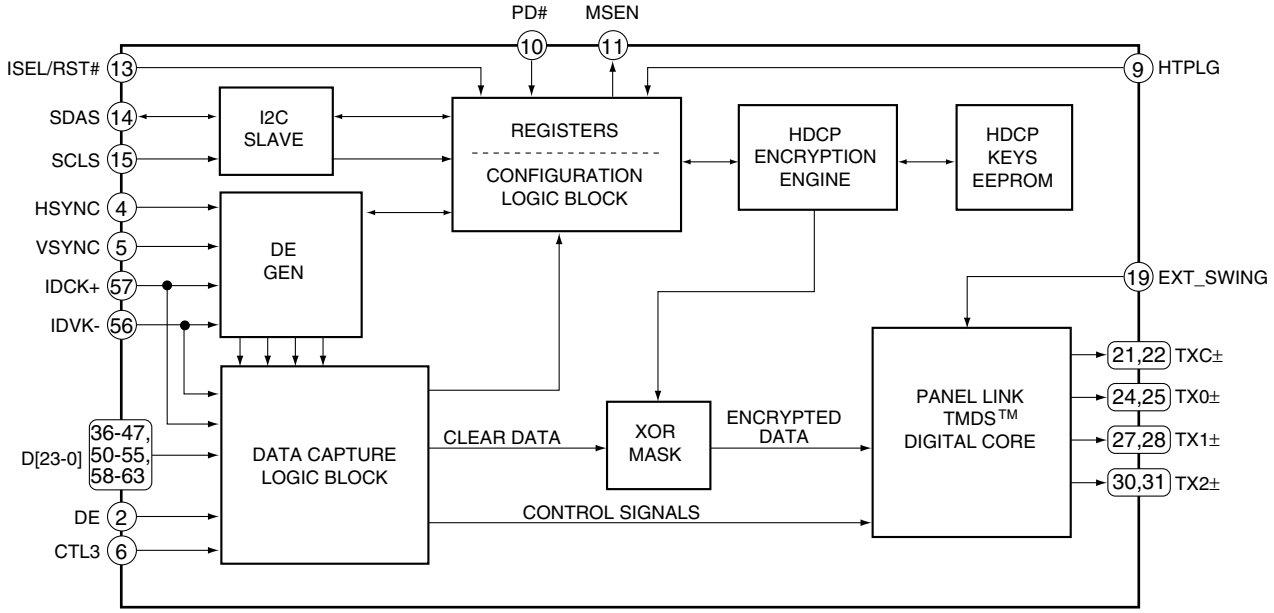
■ SII170BCLG64 (MR MAIN BOARD ASSY : IC7401)

• HDCP Panel Link Transmitter

● Pin Arrangement (Top view)



● Block Diagram



● **Pin Function**

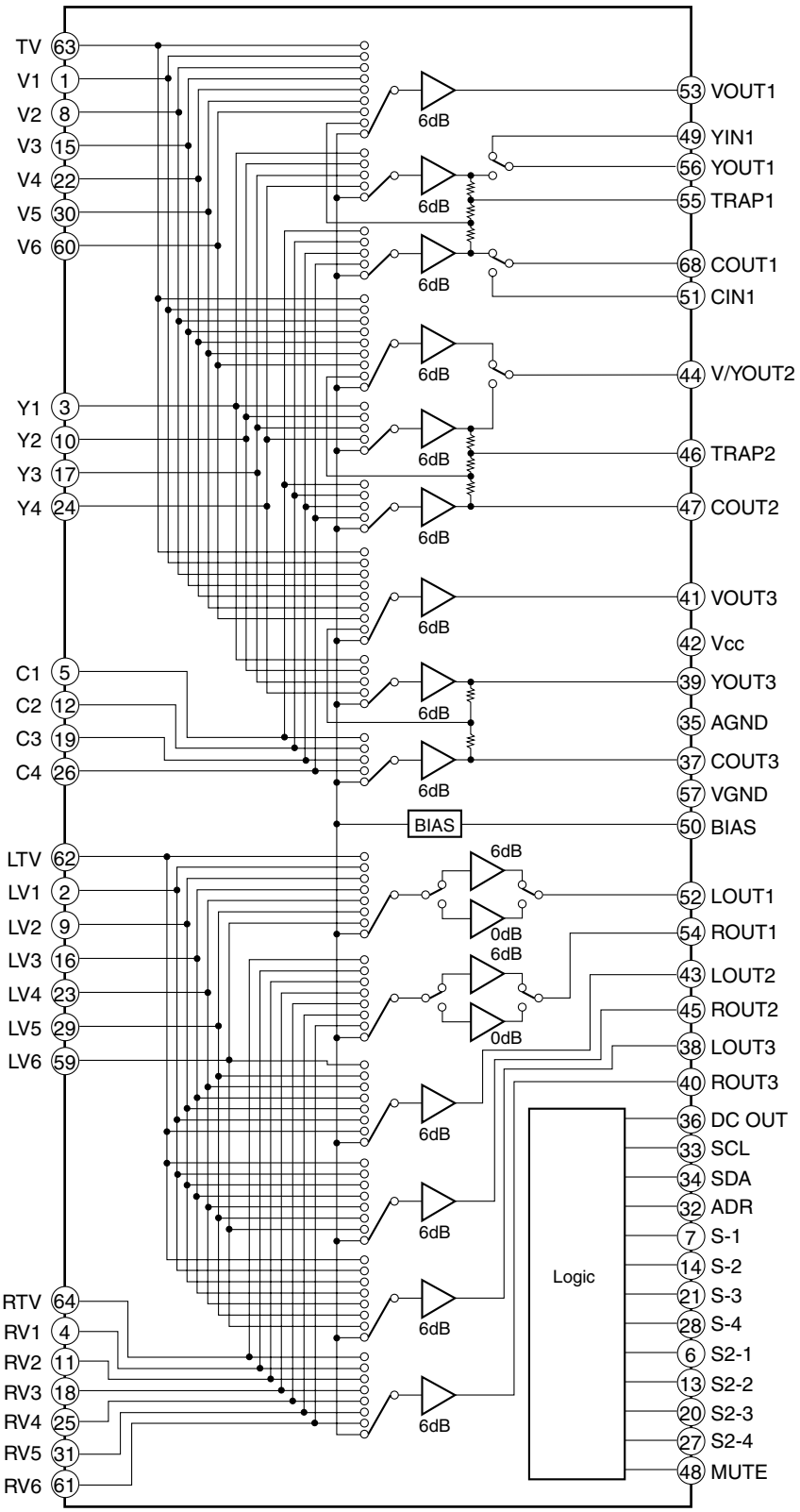
No.	Pin Name	I/O	Pin Function
1	VCC	–	Digital power supply (3.3V)
2	DE	I	Data enable
3	VREF	I	3.3V fixed
4	HSYNC	I	Horizontal sync. control signal input
5	VSYNC	I	Vertical sync. control signal input
6	CTL3	I	External CTL3 input
7	NC	–	No connection
8	NC	–	No connection
9	HTPLG	I	Monitor chrage input
10	PD#	I	Power down input (Active low)
11	MSEN	O	Monitor sense output (open-collector output)
12	VCC	–	Digital power supply (3.3V)
13	ISEL/RST#	I	I2C interface selecting input High: I2C interface is active
14	SDAS	I/O	DDC I2C data input/output
15	SCLS	I	DDC I2C clock input
16	GND	–	Digital ground
17	PGND1	–	PLL analog ground
18	PVCC1	–	Analog power supply for PLL of primary side (3.3V)
19	EXT_SWING	I	Voltage regulation adjustment
20	AGND	–	Analog ground
21	TXC-	O	Differential signal clock output of TMDS Low voltage
22	TXC+	O	Differential signal clock output of TMDS Low voltage
23	AVCC	–	Analog power supply (3.3V)
24	TX0-	O	Differential signal clock output of TMDS Low voltage
25	TX0+	O	Differential signal clock output of TMDS Low voltage
26	AGND	–	Analog ground
27	TX1-	O	Differential signal clock output of TMDS Low voltage
28	TX1+	O	Differential signal clock output of TMDS Low voltage
29	AVCC	–	Analog power supply (3.3V)
30	TX2-	O	Differential signal clock output of TMDS Low voltage
31	TX2+	O	Differential signal clock output of TMDS Low voltage
32	AGND	–	Analog ground
33	VCC	–	Digital power supply (3.3V)
34	RESERVED	I	Reserved pin for Silicon Image Normally, fixed to low.
35	GND	–	Digital ground
36	D23	I	24-bit pixel bus input
37	D22	I	24-bit pixel bus input
38	D21	I	24-bit pixel bus input
39	D20	I	24-bit pixel bus input
40	D19	I	24-bit pixel bus input
41	D18	I	24-bit pixel bus input
42	D17	I	24-bit pixel bus input
43	D16	I	24-bit pixel bus input
44	D15	I	24-bit pixel bus input
45	D14	I	24-bit pixel bus input

No.	Pin Name	I/O	Pin Function
46	D13	I	24-bit pixel bus input
47	D12	I	24-bit pixel bus input
48	PGND2	–	PLL analog ground
49	PVCC2	–	Analog power supply for filter PLL (3.3V)
50	D11	I	24-bit / 12-bit pixel bus input
51	D10	I	24-bit / 12-bit pixel bus input
52	D9	I	24-bit / 12-bit pixel bus input
53	D8	I	24-bit / 12-bit pixel bus input
54	D7	I	24-bit / 12-bit pixel bus input
55	D6	I	24-bit / 12-bit pixel bus input
56	IDCK-	I	Data clock - input
57	IDCK+	I	Data clock + input
58	D5	I	24-bit / 12-bit pixel bus input
59	D4	I	24-bit / 12-bit pixel bus input
60	D3	I	24-bit / 12-bit pixel bus input
61	D2	I	24-bit / 12-bit pixel bus input
62	D1	I	24-bit / 12-bit pixel bus input
63	D0	I	24-bit / 12-bit pixel bus input
64	GND	–	Digital ground

■ CXA2069Q (AV BOARD ASSY : IC8002)

• 7-Input 3-Output Audio/Video Switch

● Block Diagram



● Pin Function

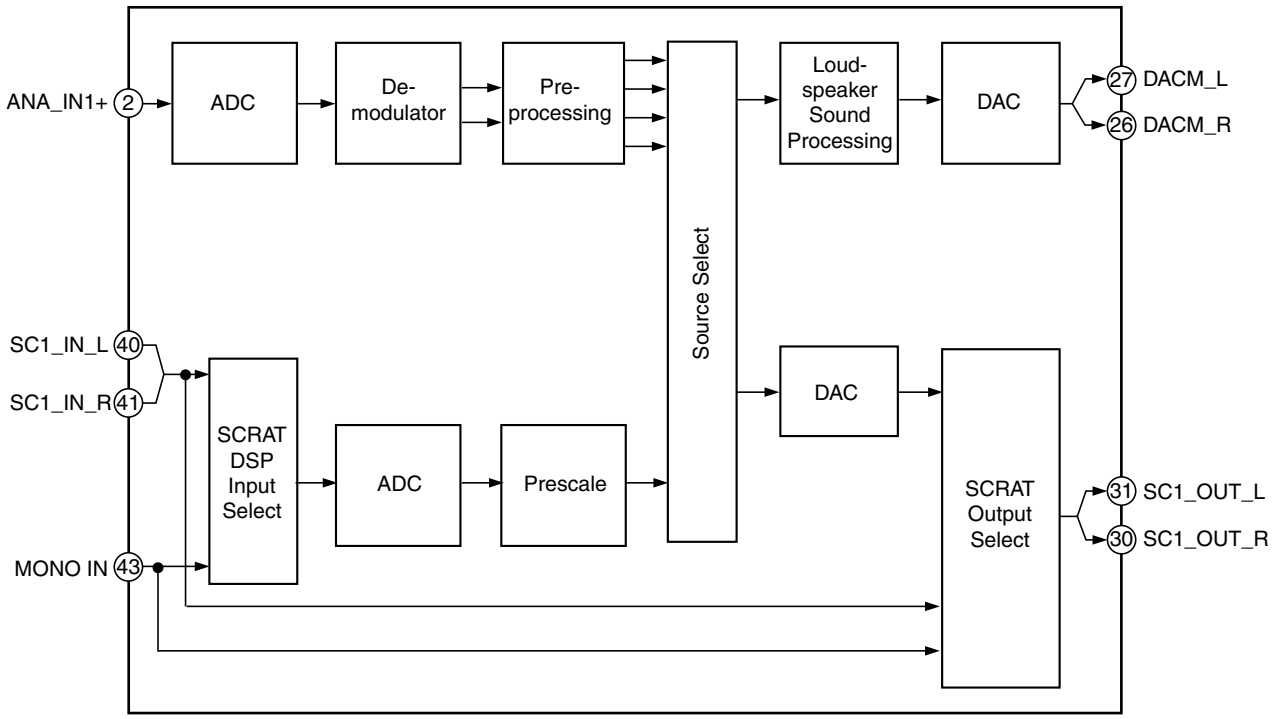
No.	Pin Name	I/O	Pin Function
63 1 8 15 22 30 60	TV V1 V2 V3 V4 V5 V6	I	Video signal inputs. Input composite video signals.
3 10 17 24 49	Y1 Y2 Y3 Y4 YIN1	I	Y/C separation signal inputs. Input luminance signals. The YIN1 pin inputs the signal obtained by Y/C separating the VOUT1 pin output.
5 12 19 26 51	C1 C2 C3 C4 CIN1	I	Y/C separation signal inputs. Input chrominance signals. The CIN1 pin inputs the signal obtained by Y/C separating the VOUT1 pin output.
62, 2 9, 16 23, 29 59, 64 4, 11 18, 25 31, 61	LTV, LV1 LV2, LV3 LV4, LV5 LV6, RTV RV1, RV2 RV3, RV4 RV5, RV6	I	Audio signal inputs.
53 41	VOUT1 VOUT3	O	Video signal outputs. Output composite video signals.
44	V/YOUT2	O	Video signal output. Either composite video signal output or luminance signal output can be selected by I2C bus control.
56 39	YOUT1 YOUT3	O	Video signal outputs. Output luminance signals.
58 47 37	COUT1 COUT2 COUT3	O	Video signal outputs. Output chrominance signals.
52 43 38 54 45 40	LOUT1 LOUT2 LOUT3 ROUT1 ROUT2 ROUT3	O	Audio signal outputs. Zo=50 ohm (within DC ± 2mA)
6 13 20 27	S2-1 S2-2 S2-3 S2-4	–	Detects the S2-compatible DC superimposed onto the C signal. 4 : 3 video signal at 1.3 V or less 4 : 3 letter-box signal at 1.3 V or more to 2.5 V or less 16 : 9 picture squeezed signal at 2.5 V or more This pin is pulled down to GND by a 100 k ohm resistor, so the 4 : 3 video signal is selected when open.

No.	Pin Name	I/O	Pin Function
7 14 21 28	S-1 S-2 S-3 S-4	–	Composite video/S selector. The detection results are written to the status register. S signal at 3.5 V or less. Composite video signal at 3.5 V or more. This pin is pulled up to 5 V by a 100 k ohm resistor, so the composite video signal is selected when open.
32	ADR	–	Selects the slave address for the I2C bus. 90H at 1.5 V or less 92H at 2.5 V or more 90H when open.
33	SCL	I	I2C bus signal input VILmax=1.5 V VIHmin=3.0 V
34	SDA	I	I2C bus signal input VILmax=1.5 V VIHmin=3.0 V VOLmax=0.4 V
36	DC_OUT	O	Outputs the S2-compatible DC superimposed onto the COUT3 output. The DC is superimposed by connecting this pin to the COUT3 output via a capacitor. Control is performed by the I2C bus. When 0 V is output, Q1 is ON and the impedance is 5 k ohm. S2 protocol output impedance of 10 ± 3 k ohm is realized by attaching external resistance of 4.7 k ohm. DC_OUT (bus) Output DC 0 4.5 V 1 0 V 2 1.9 V 3 4.5 V
55 46	TRAP1 TRAP2	–	Connects trap circuit for subcarrier.
48	MUTE	–	Audio signal output mute. Mute OFF at 1.5 V or less Mute ON at 2.5 V or more Mute OFF when open.
50	BIAS	–	Internal reference bias (VCC/2). Connect to GND via a capacitor.

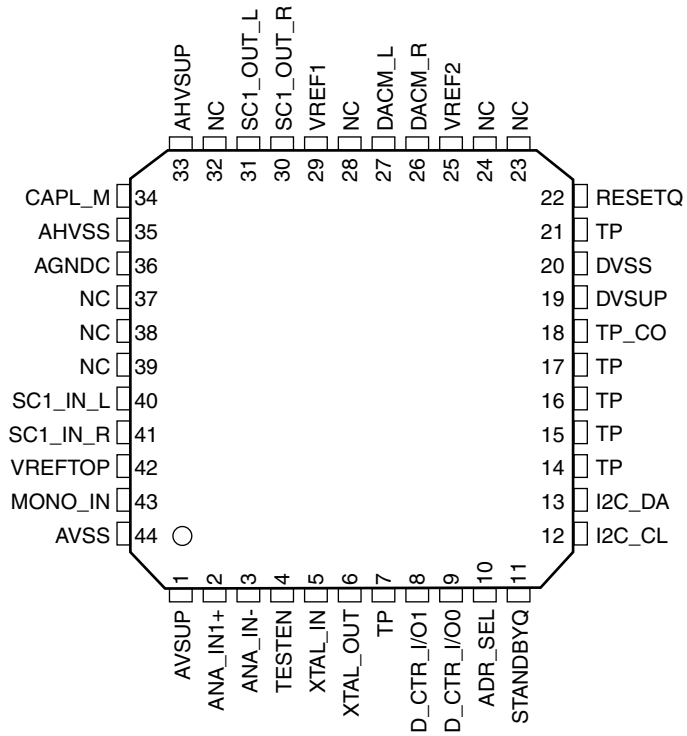
■ MSP3417G (AV BOARD ASSY : IC7502)

• Multisound Processor

● Block Diagram



● Pin Arrangement (Top view)



● Pin Function

NC = Not connected; leave vacant
LV = if not used, leave vacant
DVSS: if not used, connect to DVSS

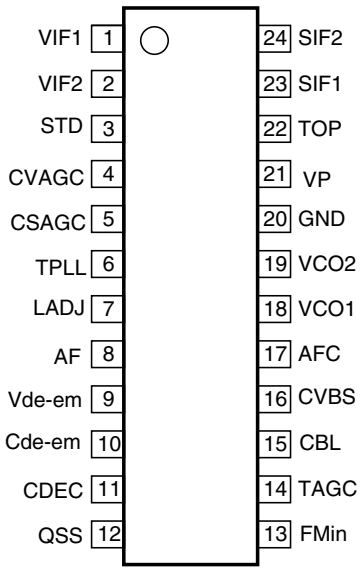
X = obligatory; connect as described in circuit diagram
AHVSS: connect to AHVSS

No.	Pin Name	Type	Connection (it not used)	Descriptiom
1	AVSUP		X	Analog power supply +5V
2	ANA_IN1+	IN	LV	IF input1
3	ANA_IN-	IN	LV	IF common
4	TESTEN	IN	X	Test pin
5	XTAL_IN	IN	X	Crystal oscillator
6	XTAL_OUT	OUT	X	Crystal oscillator
7	TP		LV	Test pin
8	D_CTR_I/O_1	IN/OUT	LV	D_CTR_I/O_1
9	D_CTR_I/O_0	IN/OUT	LV	D_CTR_I/O_0
10	ADR_SEL	IN	X	I2C Bus address select
11	STANDBYQ	IN	X	Standby (low-active)
12	I2C_CL	IN/OUT	X	I2C clock
13	I2C_DA	IN/OUT	X	I2C data
14	TP		LV	Test pin
15	TP		LV	Test pin
16	TP		LV	Test pin
17	TP		LV	Test pin
18	TP_CO	OUT	LV	Test pin
19	DVSUP		X	Digital power supply +5V
20	DVSS		X	Digital ground
21	TP		LV	Test pin
22	RESETQ	IN	X	Power-on-reset
23	NC		LV	Not connected
24	NC		LV	Not connected
25	VREF2		X	Reference ground 2 high-voltage part
26	DACM_R	OUT	LV	Loudspeaker out, right
27	DACM_L	OUT	LV	Loudspeaker out, left
28	NC		LV	Not connected
29	VREF1		X	Reference ground 1 high-voltage part
30	SC1_OUT_R	OUT	LV	SCRAT 1 output, right
31	SC1_OUT_L	OUT	LV	SCRAT 1 output, left
32	NC		LV	Not connected
33	AHVSUP		X	Analog power supply + 8.0 V
34	CAPL_M		X	Volume capacitor MAIN
35	AHVSS		X	Analog ground
36	AGNDC		X	Analog reference voltage high-voltage part
37	NC		LV	Not connected
38	NC		LV	Not connected
39	NC		LV	Not connected
40	SC1_IN_L	IN	LV	SCRAT 1 input, left
41	SC1_IN_R	IN	LV	SCRAT 1 input, right
42	VREFTOP		X	Reference voltage IF A/D converter
43	MONO_IN	IN	LV	Mono input
44	AVSS		X	Analog ground

■ TDA9818TS (AV BOARD ASSY : IC7501)

• Single/multistandard VIF/SIF-PLL and FM-PLL/AM Demodulators

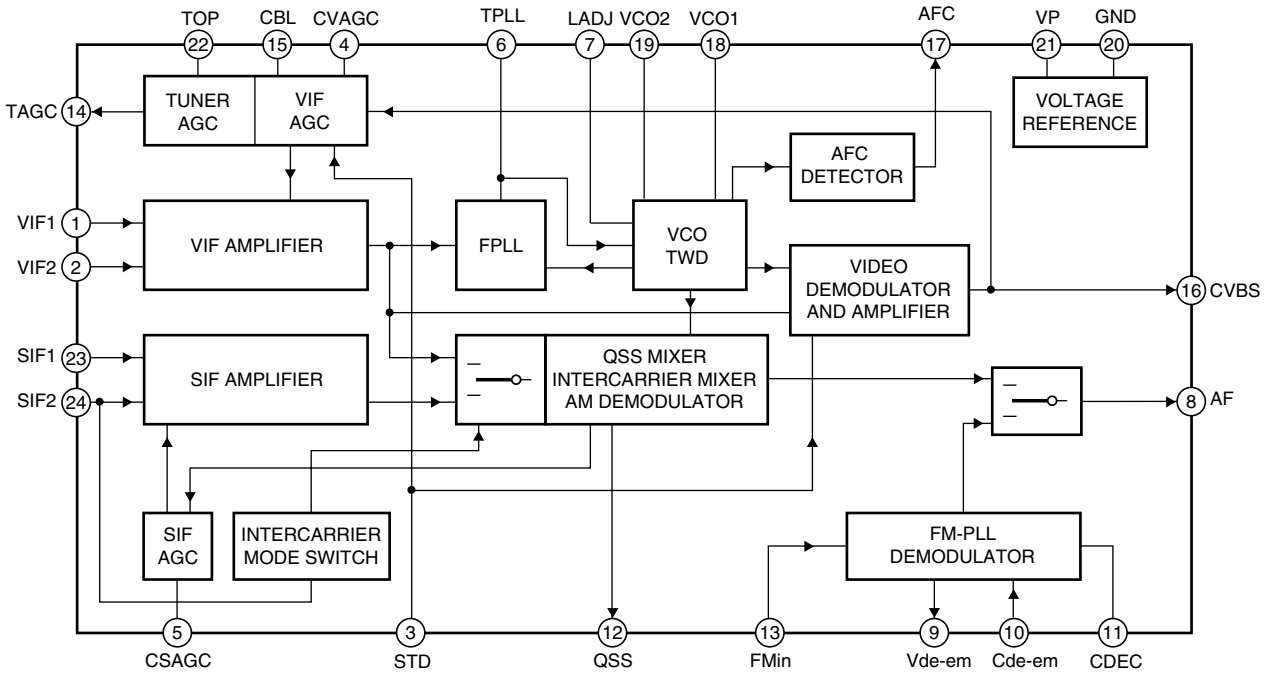
● Pin Arrangement (Top view)



● Pin Function

No.	Pin Name	Pin Function
1	VIF1	VIF differential input signal voltage 1
2	VIF2	VIF differential input signal voltage 2
3	STD	Standard selection switch
4	CVAGC	VIF AGC capacitor
5	CSAGC	SIF AGC capacitor
6	TPLL	PLL filter
7	LADJ	L/L accent switch and adjust
8	AF	Audio output
9	Vde-em	De-emphasis output
10	Cde-em	De-emphasis input
11	CDEC	Decoupling capacitor
12	QSS	Single reference QSS/intercarrier output voltage
13	FMin	Sound intercarrier input voltage
14	TAGC	Tuner AGC output
15	CBL	Black level detector
16	CVBS	Composite video output voltage
17	AFC	AFC output
18	VCO1	VCO1 resonance circuit
19	VCO2	VCO2 resonance circuit
20	GND	Ground
21	VP	Supply voltage
22	TOP	Tuner AGC takeover point adjust
23	SIF1	SIF differential input signal voltage 1
24	SIF2	SIF differential input signal voltage 2

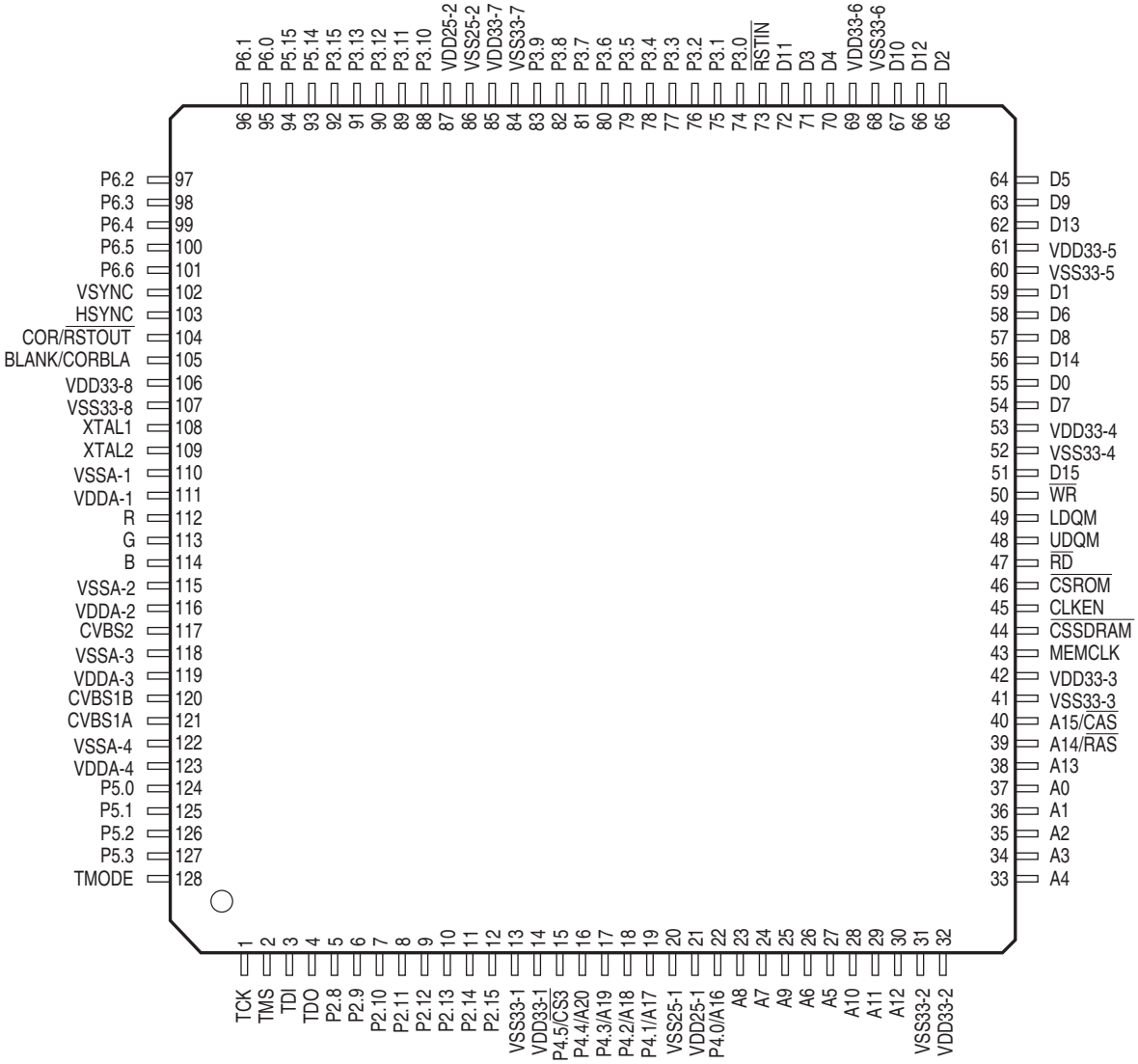
● Block Diagram



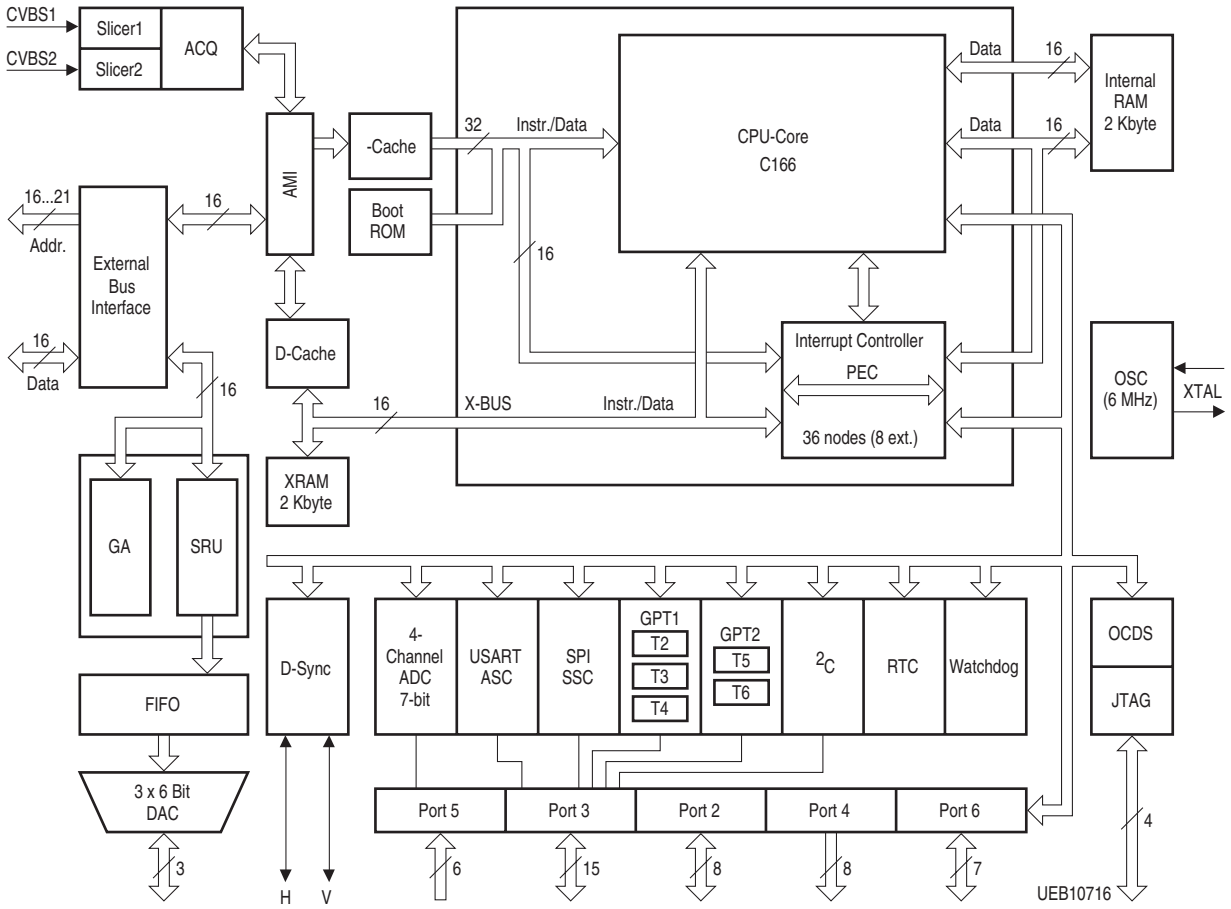
■ SDA6000 (AV BOARD ASSY : IC8904)

• Teletext Decoder

● Pin Arrangement (Top view)



● Block Diagram



● Pin Function

No.	Pin Name	Second Function	I/O	Pin Function
1	TCK	–	I	Clock for JTAG interface
2	TMS	–	I	Control signal for JTAG interface
3	TDI	–	I	Data input for JTAG interface
4	TDO	–	O	Data output for JTAG interface
5	P2.8	EX0IN	I/O	General purpose I/O port/External interrupt 0
6	P2.9	EX1IN	I/O	General purpose I/O port/External interrupt 1
7	P2.10	EX2IN	I/O	General purpose I/O port/External interrupt 2
8	P2.11	EX3IN	I/O	General purpose I/O port/External interrupt 3
9	P2.12	EX4IN	I/O	General purpose I/O port/External interrupt 4
10	P2.13	EX5IN	I/O	General purpose I/O port/External interrupt 5
11	P2.14	EX6IN	I/O	General purpose I/O port/External interrupt 6
12	P2.15	EX7IN	I/O	General purpose I/O port/External interrupt 7
13	VSS33-1	–	–	Digital ground for pads
14	VDD33-1	–	–	Digital power (for pads) (3.3 V)
15	P4.5	CS3	O	General purpose output port/Chip select signal for second external static memory
16	P4.4	A20	O	General purpose output port/Address bit
17	P4.3	A19	O	General purpose output port/Address bit
18	P4.2	A18	O	General purpose output port/Address bit
19	P4.1	A17	O	General purpose output port/Address bit
20	VSS25-1	–	–	Digital ground (for digital core)
21	VDD25-1	–	–	Digital power (for digital core) (2.5 V)
22	P4.0	A16	O	General purpose output port/Address bit
23	A8	R8	O	Address bit/SDRAM address bit
24	A7	R7/C7	O	Address bit/SDRAM address bit
25	A9	R9	O	Address bit/SDRAM address bit
26	A6	R6/C6	O	Address bit/SDRAM address bit
27	A5	R5/C5	O	Address bit/SDRAM address bit
28	A10	R10	O	Address bit/SDRAM address bit
29	A11	R11	O	Address bit/SDRAM address bit
30	A12	R12	O	Address bit/SDRAM address bit
31	VSS33-2	–	–	Digital ground for pads
32	VDD33-2	–	–	Digital power (for pads) (3.3 V)
33	A4	R4/C4	O	Address bit/SDRAM address bit
34	A3	R3/C3	O	Address bit/SDRAM address bit
35	A2	R2/C2	O	Address bit/SDRAM address bit
36	A1	R1/C1	O	Address bit/SDRAM address bit
37	A0	R0/C0	O	Address bit (All addresses are word addresses)/SDRAM Address bit
38	A13	R13	O	Address bit/SDRAM address bit
39	A14	$\overline{RAS}$	O	Address bit/Row address strobe for SDRAM access
40	A15	$\overline{CAS}$	O	Address bit/Column address strobe for SDRAM access
41	VSS33-3	–	–	Digital ground for pads
42	VDD33-3	–	–	Digital power (for pads) (3.3 V)
43	MEMCLK	–	O	Clock for SDRAM
44	$\overline{CSSDRAM}$	–	O	Chip select signal for SDRAM device
45	CLKEN	–	O	Enable for memory clock
46	$\overline{CSROM}$	–	O	Chip select signal for ROM device
47	$\overline{RD}$	–	O	External memory read strobe for ROM. $\overline{RD}$ is activated for every external instruction or data read access.
48	UDQM	–	O	Write disable for high byte
49	LDQM	–	O	Write disable for low byte
50	$\overline{WR}$	–	O	Memory write strobe

No.	Pin Name	Second Function	I/O	Pin Function
51	D15	–	I/O	Data bit
52	VSS33-4	–	–	Digital ground for pads
53	VDD33-4	–	–	Digital power (for pads) (3.3 V)
54	D7	–	I/O	Data bit
55	D0	–	I/O	Data bit
56	D14	–	I/O	Data bit
57	D8	–	I/O	Data bit
58	D6	–	I/O	Data bit
59	D1	–	I/O	Data bit
60	VSS33-5	–	–	Digital ground for pads
61	VDD33-5	–	–	Digital power (for pads) (3.3 V)
62	D13	–	I/O	Data bit
63	D9	–	I/O	Data bit
64	D5	–	I/O	Data bit
65	D2	–	I/O	Data bit
66	D12	–	I/O	Data bit
67	D10	–	I/O	Data bit
68	VSS33-6	–	–	Digital ground for pads
69	VDD33-6	–	–	Digital power (for pads) (3.3 V)
70	D4	–	I/O	Data bit
71	D3	–	I/O	Data bit
72	D11	–	I/O	Data bit
73	$\overline{\text{RSTIN}}$	–	I	Reset input pin
74	P3.0	SCL0	I/O	General purpose I/O port/I2C Bus clock line 0
75	P3.1	SDA0	I/O	General purpose I/O port/I2C Bus data line 0
76	P3.2	CAPIN	I/O	General purpose I/O port/GPT2 register CAPREL
77	P3.3	T3OUT	I/O	General purpose I/O port/GPT1 timer T3 toggle
78	P3.4	T3EUD	I/O	General purpose I/O port/GPT1 timer T3 ext. up/down
79	P3.5	T4IN	I/O	General purpose I/O port/GPT1 timer T4 input for count/gate/reload/capture
80	P3.6	T3IN	I/O	General purpose I/O port/GPT1 timer T3 count/gate input
81	P3.7	T2IN	I/O	General purpose I/O port/GPT1 timer T2 input for count/gate/reload/capture
82	P3.8	MRST	I/O	General purpose I/O port/SSC masterreceiver/slave-transmit I/O
83	P3.9	MTSR	I/O	General purpose I/O port/SSC mastertransmit/slave-receiver O/I
84	VSS33-7	–	–	Digital ground for pads
85	VDD33-7	–	–	Digital power (for pads) (3.3 V)
86	VSS25-2	–	–	Digital ground (for digital core)
87	VDD25-2	–	–	Digital power (for digital core) (2.5 V)
88	P3.10	TxD0	I/O	General purpose I/O port/ASC0 clock/data output
89	P3.11	RxD0	I/O	General purpose I/O port/ASC0 data input (asynchronous) or I/O (synchronous).
90	P3.12	–	I/O	General purpose I/O port
91	P3.13	SCLK	I/O	General purpose I/O port/SSC master clock output/slave clock input
92	P3.15	–	I/O	General purpose I/O port
93	P5.14	T4EUD	I/O	General purpose Input port/GPT1 timer T4 ext.up/down ctrl. input
94	P5.15	T2EUD	I/O	General purpose Input port/GPT1 timer T2 ext.up/down ctrl. input
95	P6.0	TRIG_IN	I/O	General purpose I/O port/Trigger input-signal for 'On Chip Debug System' (OCDS)
96	P6.1	TRIG_OUT	I/O	General purpose I/O port/Trigger outputsignal for 'On Chip Debug System' (OCDS)
97	P6.2	FIELD	I/O	General purpose I/O port/Field signal of field detection
98	P6.3	SCL1	I/O	General purpose I/O port/I2C bus clock line 1
99	P6.4	SDA1	I/O	General purpose I/O port/I2C bus data line 1
100	P6.5	–	I/O	General purpose I/O port

No.	Pin Name	Second Function	I/O	Pin Function
101	P6.6	SDA2	I/O	General purpose I/O port/I2C bus data line 2
102	VSYNC	VCS	I/O	Vertical sync In/output/Composite sync output
103	HSYNC	–	I/O	Horizontal sync In/output
104	COR	RSTOUT	O	Output for contrast reduction/Reset output
105	BLANK	CORBLA	O	Fast blanking signal/Three-level signal for contrast reduction + fast blanking
106	VDD33-8	–	–	Digital power (for pads) (3.3 V)
107	VSS33-8	–	–	Digital ground for pads
108	XTAL1	–	I	Input of the oscillator amplifier circuit
109	XTAL2	–	O	Output of the oscillator amplifier circuit
110	VSSA-1	–	–	Analog ground
111	VDDA-1	–	–	Analog power (for PLL and DAC) (2.5 V)
112	R	–	O	Analog output for red channel
113	G	–	O	Analog output for green channel
114	B	–	O	Analog output for blue channel
115	VSSA-2	–	–	Analog ground
116	VDDA-2	–	–	Analog power (for ADCs) (2.5 V)
117	CVBS2	–	I	CVBS signal inputs for WSS data slicing
118	VSSA-3	–	–	Analog ground
119	VDDA-3	–	–	Analog power (for ADCs) (2.5 V)
120	CVBS1B	–	I	Ground for CVBS1A (differential input)
121	CVBS1A	–	I	CVBS signal inputs for full service data slicing
122	VSSA-4	–	–	Analog ground
123	VDDA-4	–	–	Analog power (for ADCs) (2.5 V)
124	P5.0	AN.0	I	General purpose Input port/Analog input for A/D-converter
125	P5.1	AN.1	I	General purpose Input port/Analog input for A/D-converter
126	P5.2	AN.2	I	General purpose Input port/Analog input for A/D-converter
127	P5.3	AN.3	I	General purpose Input port/Analog input for A/D-converter
128	TMODE	–	I	Test mode pin

7.4 CLEANING

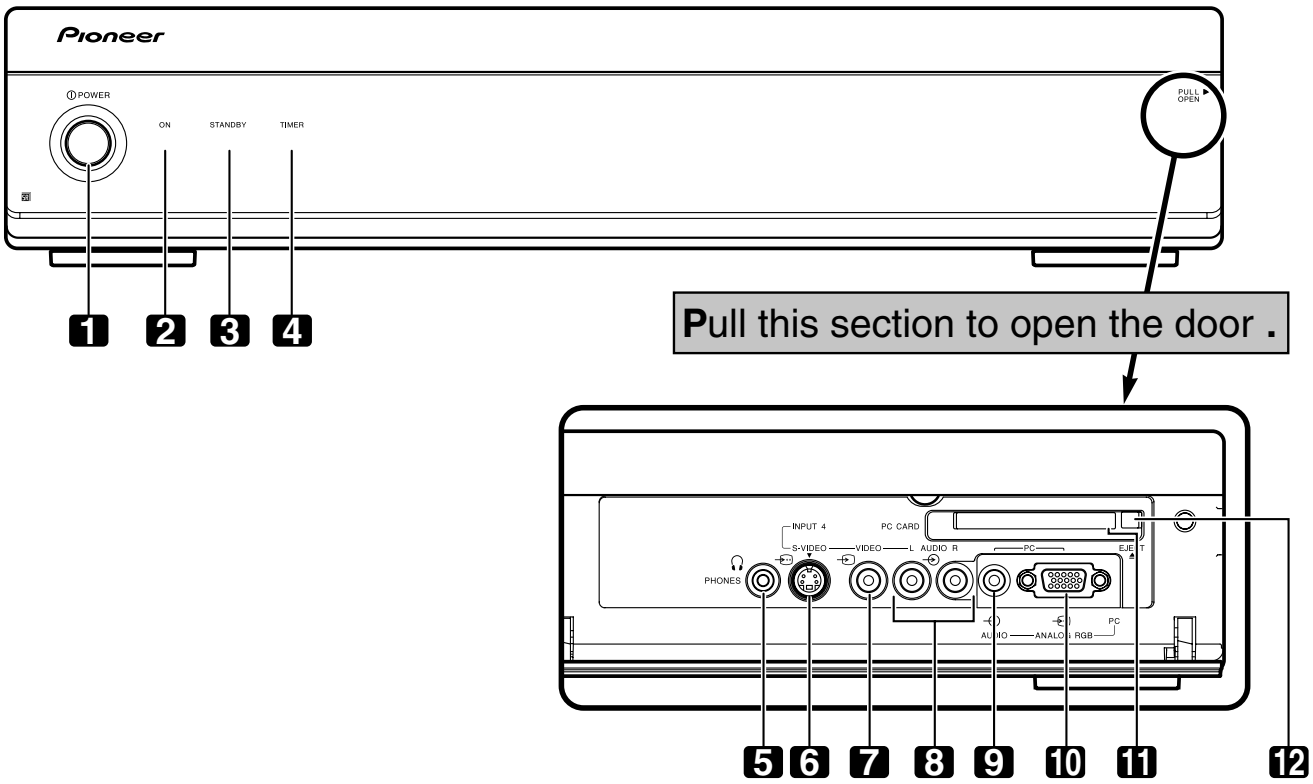
Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

Position to be cleaned	Cleaning tools
Fans	Cleaning paper : GED-008

8. PANEL FACILITIES

Media Receiver (PDP-505XDE/435XDE)

Front view



1 **POWER** button

2 POWER ON indicator

3 STANDBY indicator

4 TIMER indicator
PDP-505XDE/435XDE only

5 PHONES output terminal
PDP-505XDE/435XDE only

6 INPUT 4 terminal (S-VIDEO)

7 INPUT 4 terminal (VIDEO)

8 INPUT 4 terminals (AUDIO)

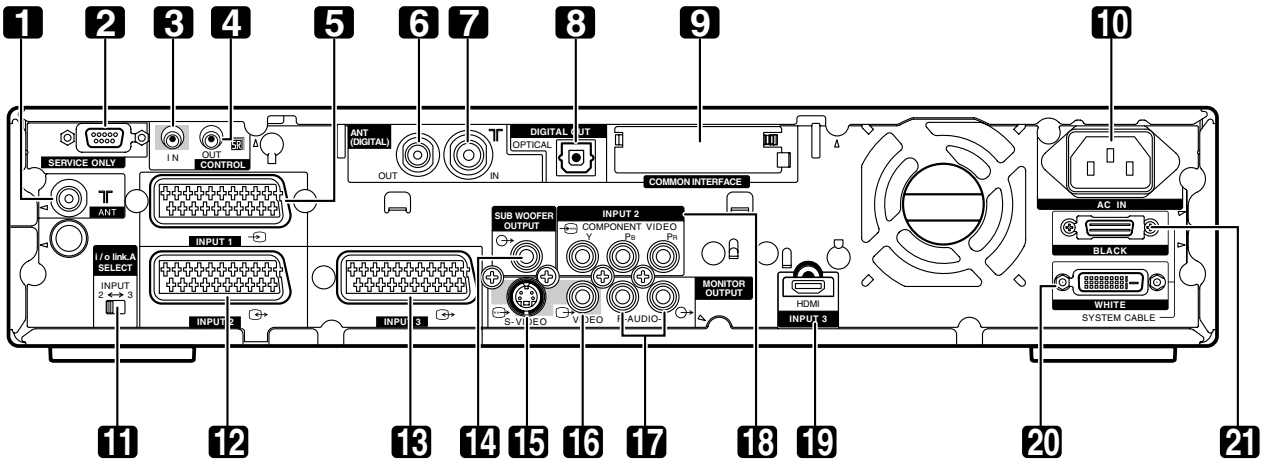
9 PC INPUT terminal (AUDIO)
PDP-505XDE/435XDE only

10 PC INPUT terminal (ANALOG RGB)
PDP-505XDE/435XDE only

11 PC CARD slot
PDP-505XDE/435XDE only

12 **PC CARD EJECT** button
PDP-505XDE/435XDE only

Rear view



1 ANT (Antenna) input terminal

2 RS-232C terminal (used for factory setup)

3 CONTROL IN terminal
PDP-505XDE/435XDE only

4 CONTROL OUT terminal
PDP-505XDE/435XDE only

5 INPUT 1 terminal (SCART)

6 ANT OUT terminal (Antenna through out)
PDP-505XDE/435XDE only

7 ANT IN terminal (Antenna in for DTV)
PDP-505XDE/435XDE only
• Power can be supplied through this terminal.

8 DIGITAL OUT terminal (OPTICAL)
PDP-505XDE/435XDE only

9 COMMON INTERFACE slot
PDP-505XDE/435XDE only
• For a CA Module with a smart card

10 AC IN terminal

11 i/o link.A SELECT switch

12 INPUT 2 terminal (SCART)

13 INPUT 3 terminal (SCART)

14 SUBWOOFER OUTPUT terminal
PDP-505XDE/435XDE only

15 MONITOR OUTPUT terminal (S-VIDEO)

16 MONITOR OUTPUT terminal (VIDEO)

17 MONITOR OUTPUT terminals (AUDIO)

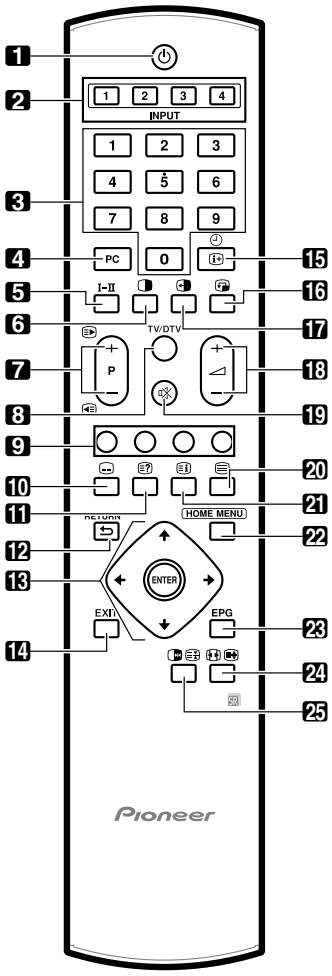
18 INPUT 2 terminals
(COMPONENT VIDEO: Y, P_B, P_R)

19 INPUT 3 terminal (HDMI)

20 SYSTEM CABLE terminal (WHITE)

21 SYSTEM CABLE terminal (BLACK)

Remote control unit (PDP-505XDE/435XDE)



1 ⏻
Turns on the power to the Plasma Display or places into the standby mode.

2 INPUT
Selects an input source of the Plasma Display. (INPUT 1, INPUT 2, INPUT 3, INPUT 4)

3 0 – 9
TV/External input mode: Selects a channel.
TELETEXT mode: Selects a page.

4 PC
Selects the PC terminal as an input source.

5 I—II
Sets the sound multiplex mode.

6
Switches the screen mode among 2-screen, picture-in-picture, and single-screen.

7 P+/P–
TV/External input mode: Selects a channel.
/
TELETEXT mode: Selects a page.

8 TV/DTV (**PDP-505XDE/435XDE only**)
Switches between the TV and DTV input mode.

9 Colour (RED/GREEN/YELLOW/BLUE)
TELETEXT mode: Selects a page.

10
TV/External input mode: Jumps to the teletext subtitle page.
DTV input mode: Turns subtitle on and off.

11
TELETEXT mode: Displays hidden characters.

12 RETURN
Restores the previous menu screen.

13 ↑/↓/←/→
Selects a desired item on the setting screen.

ENTER
Executes a command.

14 EXIT (**PDP-505XDE/435XDE only**)
Returns to the normal screen in one step.

15
TV/External input mode: Displays the channel information.
DTV input mode: Displays the banner information.

16
Moves the location of the small screen when in the picture-in-picture mode.

17
Switches between the two screens when in the 2-screen or picture-in-picture mode.

18 +/–
Sets the volume.

19
Mutes the sound.

20
Selects the TELETEXT mode.
(all TV image, all TEXT image, TV/TEXT image)

21
TELETEXT mode: Displays an Index page for the CEEFAX/FLOF format. Displays a TOP Over View page for the TOP format.

22 HOME MENU
TV/External Input mode: Displays the Menu screen.

23 EPG
Display the Electronic Programme Guide.

24
TV/External input mode: Selects the screen size.

TELETEXT mode: Switches Teletext images. (full/upperhalf/lower half)

25
TV/External input mode: Freezes a frame from a moving image. Press again to cancel the function.

TELETEXT mode: Stops updating Teletext pages. Press again to release the hold mode.

NOTE

- When using the remote control unit, point it at the Plasma Display.