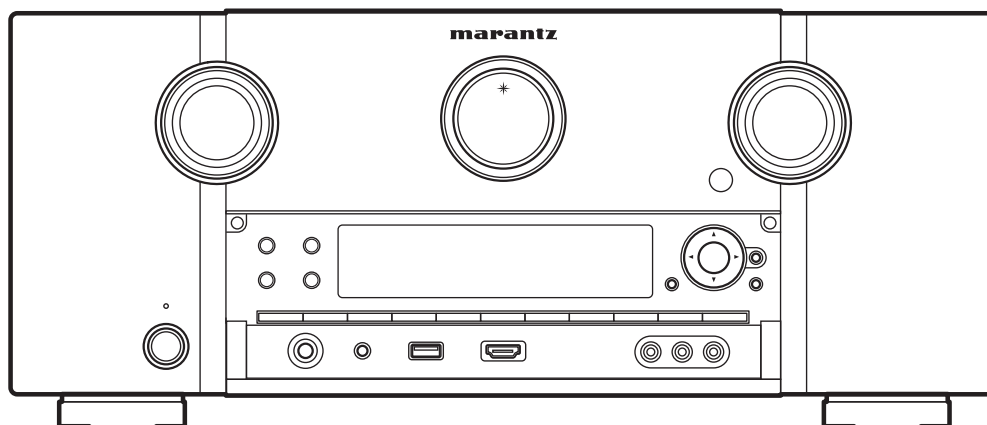


Service Manual

AV8801 /U1B,K1B
N1B

AV Pre Tuner



• For purposes of improvement, specifications and design are subject to change without notice.

• Please use this service manual with referring to the operating instructions without fail.

• Some illustrations using in this service manual are slightly different from the actual set.

marantz®

AV8801

Ver. 3

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ABOUT THIS MANUAL

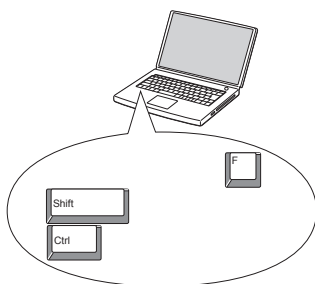
Read the following information before using the service manual.

What you can do with this manual

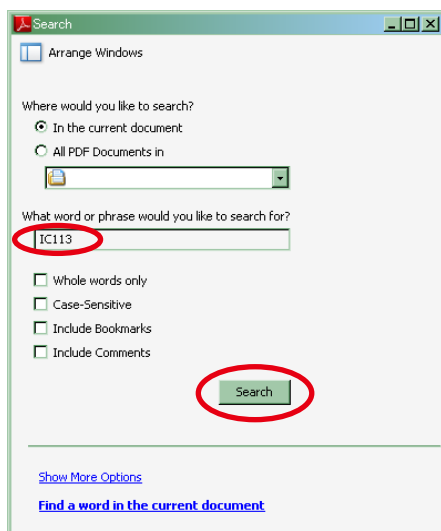
Search for a Ref. No. (phrase) (Ctrl+Shift+F)

You can use the search function in Acrobat Reader to search for a Ref. No. in schematic diagrams, printed wiring board diagrams, block diagrams, and parts lists.

1. Press **Ctrl+Shift+F** on the keyboard.
 - The Search window appears.



2. Enter the Ref. No. you want to search for in the Search window, and then click the **Search** button.
 - A list of search results appears.

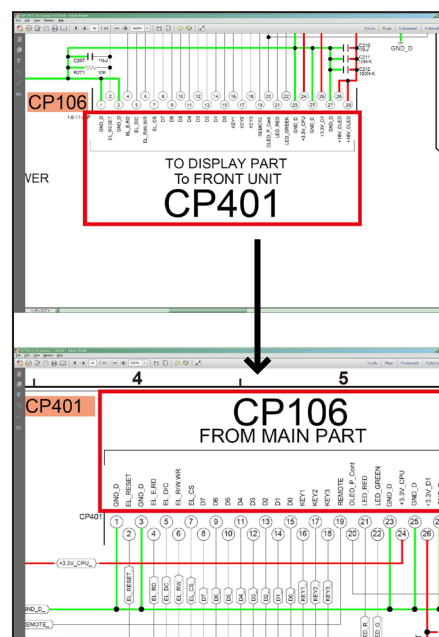


3. Click an item on the list.
 - The screen jumps to the page for that item, and the search phrase is displayed.

Jump to the target of a schematic diagram connector

Click the Ref. No. of the target connector in the red box around a schematic diagram connector.

- The screen jumps to the target connector.



- Page magnification stays the same as before the jump.

Using Adobe Reader (Windows version)

Add notes to this data (Sign)

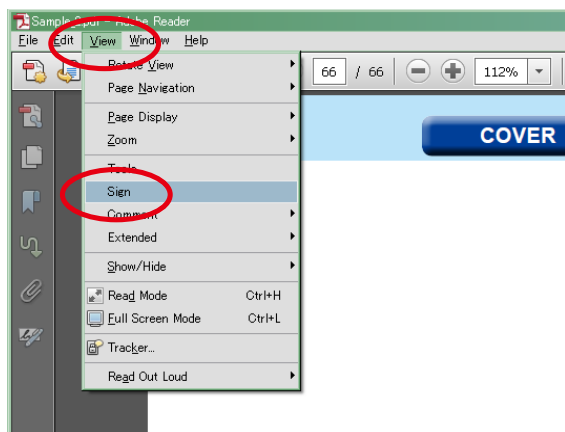
The Sign function lets you add notes to the data in this manual.

Save the file once you have finished adding notes.

[Example using Adobe Reader X]

On the "View" menu, click "Sign".

- The Sign pane appears.



[Example using Adobe Reader 9]

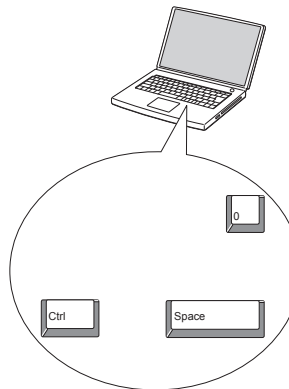
On the "Document" menu, click "Sign".

Magnify schematic / printed wiring board diagrams - 1

(Ctrl+Space, mouse operation)

Press **Ctrl+Space** on the keyboard and drag the mouse to select the area you want to view.

- The selected area is magnified.



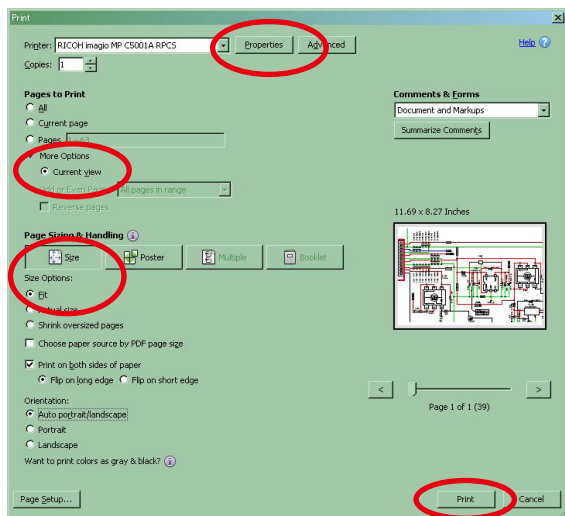
- When you want to move the area shown, hold down **Space** and drag the mouse.

- When you want to show a full page view, press **Ctrl+0** on the keyboard.

Print a magnified part of the manual

The Properties dialog box and functions will vary depending on your printer.

1. Drag the mouse to magnify the part you want to print.
2. On the "File" menu, click "Print".
3. Configure the following settings in the Print dialog box.



• Properties

Click this button and check that the printer is set to a suitable paper size.

• Page to print

Select the following checkbox.

"More Options" : "Current View"

• Page Sizing & Handling

Select the following checkbox.

"Size" / "Size Options" : "Fit"

4. Click the **Print** button to start printing.

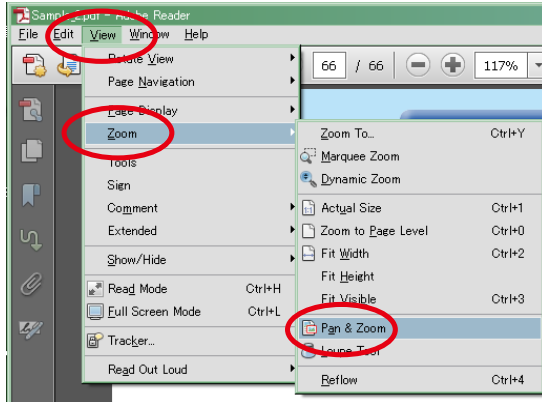
Magnify schematic / printed wiring board diagrams - 2

(Pan & Zoom function)

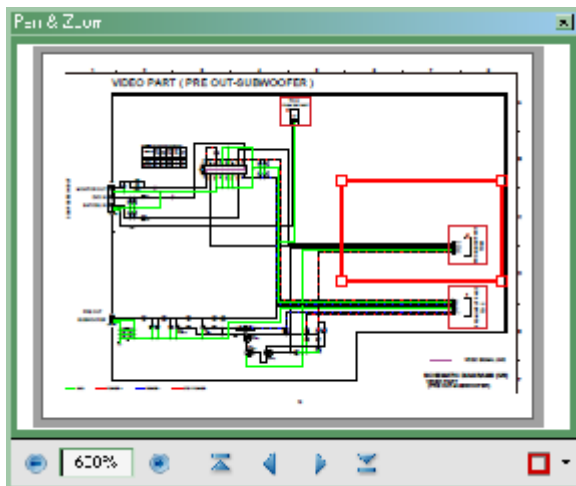
The Pan & Zoom function lets you see which part of a magnified diagram is being shown in a separate window.

[Example using Adobe Reader X]

On the "View" menu, point to "Zoom", and then click "Pan & Zoom".



- The Pan & Zoom window appears on the screen.



[Example using Adobe Reader 9]

On the "Tools" menu, point to "Select & Zoom", and then click "Pan & Zoom Window".

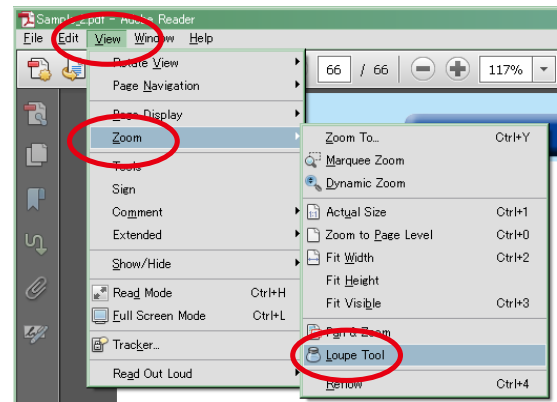
Magnify schematic / printed wiring board diagrams - 3

(Loupe Tool function)

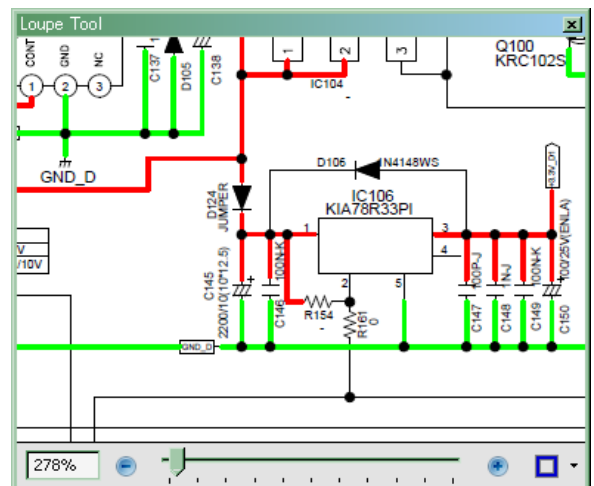
The Loupe Tool function lets you magnify a specific part of a diagram in a separate window.

[Example using Adobe Reader X]

On the "View" menu, point to "Zoom", and then click "Loupe Tool".



- The Loupe Tool window appears on the screen.



[Example using Adobe Reader 9]

On the "Tools" menu, point to "Select & Zoom", and then click "Loupe Tool Window".

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, **marantz** company has created the ultimate in stereo sound. Only original **marantz** parts can insure that your **marantz** product will continue to perform to the specifications for which it is famous.

Parts for your **marantz** equipment are generally available to our National Marantz Subsidiary or agent.

ORDERING PARTS :

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order :

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature : any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

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CHINA. 200040
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FAX : 021 - 6248 - 4434

NOTE ON SAFETY :

Symbol  Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol .

Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意 :

 がついている部品は、安全上重要な部品です。必ず指定されている部品番号のものを使用してください。

SHOCK, FIRE HAZARD SERVICE TEST :

CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard No. 60065.

In case of difficulties, do not hesitate to contact the Technical
Department at above mentioned address.

SAFETY PRECAUTIONS

The following items should be checked for continued protection of the customer and the service technician.

LEAKAGE CURRENT CHECK

Before returning the set to the customer, be sure to carry out either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the set is defective.

Be sure to test for leakage current with the AC plug in both polarities, in addition, when the set's power is in each state (on, off and standby mode), if applicable.

CAUTION Please heed the following cautions and instructions during servicing and inspection.

◎ **Heed the cautions!**

Cautions which are delicate in particular for servicing are labeled on the cabinets, the parts and the chassis, etc. Be sure to heed these cautions and the cautions described in the handling instructions.

◎ **Cautions concerning electric shock!**

- (1) An AC voltage is impressed on this set, so if you touch internal metal parts when the set is energized, you may get an electric shock. Avoid getting an electric shock, by using an isolating transformer and wearing gloves when servicing while the set is energized, or by unplugging the power cord when replacing parts, for example.
- (2) There are high voltage parts inside. Handle with extra care when the set is energized.

◎ **Caution concerning disassembly and assembly!**

Through great care is taken when parts were manufactured from sheet metal, there may be burrs on the edges of parts. The burrs could cause injury if fingers are moved across them in some rare cases. Wear gloves to protect your hands.

◎ **Use only designated parts!**

The set's parts have specific safety properties (fire resistance, voltage resistance, etc.). Be sure to use parts which have the same properties for replacement. The burrs have the same properties. In particular, for the important safety parts that are indicated by the $\triangle$ mark on schematic diagrams and parts lists, be sure to use the designated parts.

◎ **Be sure to mount parts and arrange the wires as they were originally placed!**

For safety reasons, some parts use tapes, tubes or other insulating materials, and some parts are mounted away from the surface of printed circuit boards. Care is also taken with the positions of the wires by arranging them and using clamps to keep them away from heating and high voltage parts, so be sure to set everything back as it was originally placed.

◎ **Make a safety check after servicing!**

Check that all screws, parts and wires removed or disconnected when servicing have been put back in their original positions, check that no serviced parts have deteriorate the area around. Then make an insulation check on the external metal connectors and between the blades of the power plug, and otherwise check that safety is ensured.

(Insulation check procedure)

Unplug the power cord from the power outlet, disconnect the antenna, plugs, etc., and on the power. Using a 500V insulation resistance tester, check that the insulation resistance value between the inplug and the externally exposed metal parts (antenna terminal, headphones terminal, input terminal, etc.) is 1M Ω or greater. If it is less, the set must be inspected and repaired.

CAUTION Concerning important safety parts

Many of the electric and the structural parts used in the set have special safety properties. In most cases these properties are difficult to distinguish by sight, and the use of replacement parts with higher ratings (rated power and withstand voltage) does not necessarily guarantee that safety performance will be preserved. Parts with safety properties are indicated as shown below on the wiring diagrams and the parts list in this service manual. Be sure to replace them with the parts which have the designated part number.

- (1) Schematic diagrams.....Indicated by the $\triangle$ mark.
- (2) Parts lists.....Indicated by the $\triangle$ mark.

The use of parts other than the designated parts could cause electric shocks, fires or other dangerous situations.

TECHNICAL SPECIFICATIONS

Audio Section

Analog

Input sensitivity/Input impedance : 200 mV/47 kΩ
Balanced input: 400 mV/94 kΩ
Frequency response : 10 Hz – 100 kHz — +1, –3 dB (DIRECT mode)
S/N : 105 dB (IHF–A weighted, DIRECT mode)
Distortion : 0.005 % (20 Hz – 20 kHz) (DIRECT mode)
Rated output : Unbalanced pre-output: 1.2 V
Balanced pre-output: 2.4 V

Digital

D/A output : Rated output — 2 V (at 0 dB playback)
Total harmonic distortion — 0.008 % (1 kHz, at 0 dB)
S/N ratio — 102 dB
Dynamic range — 100 dB

Digital input : Format — Digital audio interface

Phono equalizer (PHONO input — MEDIA PLAYER OUT)

Input sensitivity : 2.5 mV
RIAA deviation : ±1 dB (20 Hz to 20 kHz)
S/N : 74 dB (A weighting, with 5 mV input)
Rated output : 150 mV
Distortion factor : 0.03 % (1 kHz, 3 V)

Video section

Standard video connectors

Input/output level and impedance : 1 Vp-p, 75 Ω
Frequency response : 5 Hz – 10 MHz — 0, –3 dB
(when “Video Conversion” set to “Off”)

Color component video connector

Input/output level and impedance : Y signal — 1 Vp-p, 75 Ω
PB / CB signal — 0.7 Vp-p, 75 Ω
PR / CR signal — 0.7 Vp-p, 75 Ω
Frequency response : 5 Hz – 60 MHz — 0, –3 dB
(when “Video Conversion” set to “Off”)

Tuner section

(ANTENNA input – MEDIA PLAYER OUT)

[FM](Note: μV at 75 Ω, 0 dBf = 1×10^{-15} W)

Receiving Range :

[FM] 87.5 MHz – 107.9 MHz

[AM] 530 kHz – 1710 kHz

Usable Sensitivity :

[FM] 1.5 μV (14.8 dBf)

[AM] 20 μV

S/N (IHF–A weighted) :

[FM] MONO 78 dB

STEREO 68 dB

HD 85 dB

[AM] HD 85 dB

Distortion (1 kHz) :

[FM] MONO 0.1 %

STEREO 0.2 %

HD 0.02 %

[AM] HD 0.02 %

Switching hub

Standard : IEEE 802.3 (10 Base-T)-compliant

IEEE 802.3u (100 Base-TX)-compliant

Number of ports : 4 ports

General

Power supply (for U model): AC 120 V, 60 Hz

Power supply (for N model): AC 230 V, 50/60 Hz

Power supply (for K model): AC 220 V, 50 Hz

Power consumption : 90 W

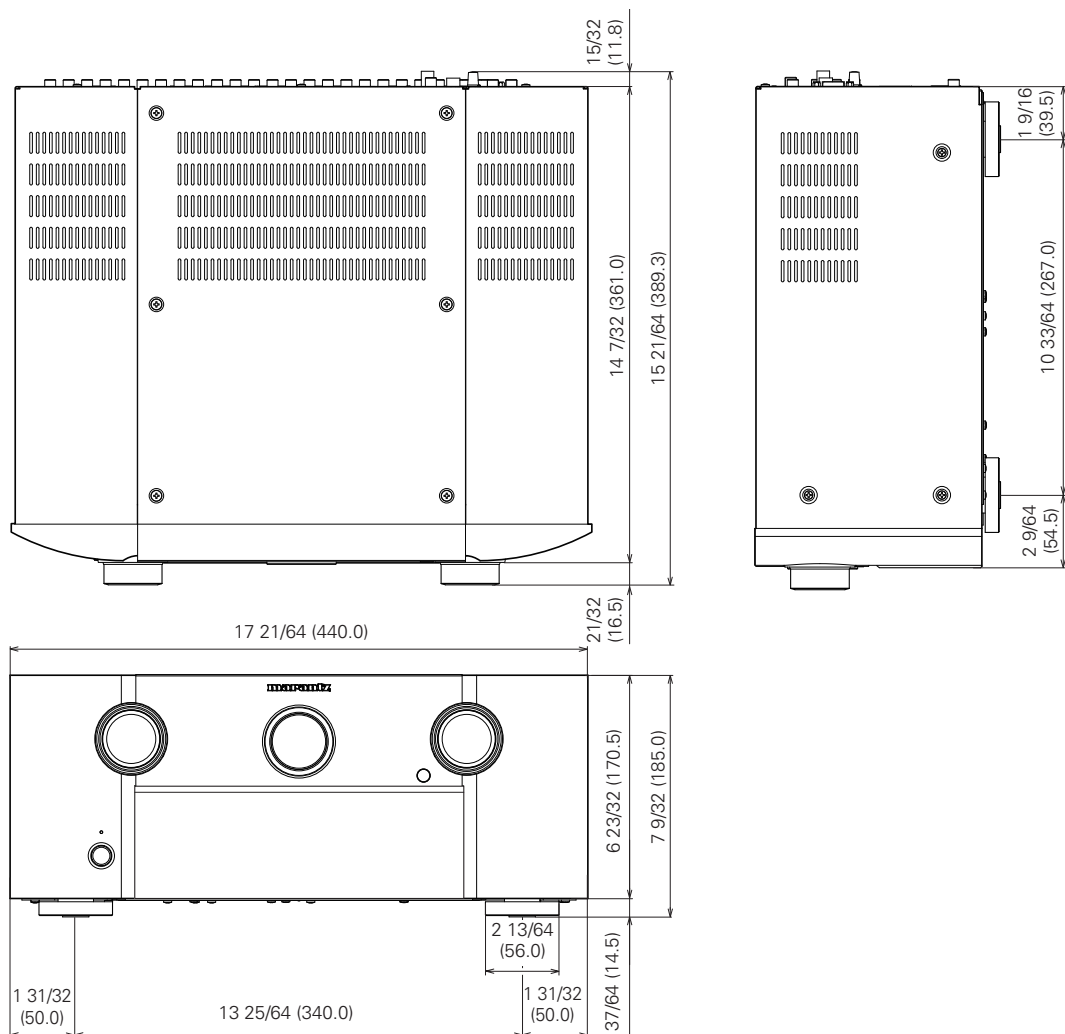
Power consumption in standby mode : 0.2 W

Power consumption in CEC standby mode : 0.5 W

Power consumption in network standby mode : 5.1 W

For purposes of improvement, specifications and design are subject to change without notice.

DIMENSION



CAUTION IN SERVICING

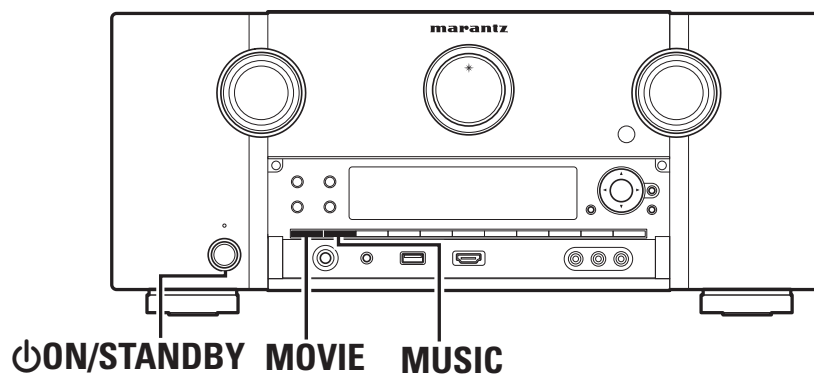
Initializing INTEGRATED NETWORK AV RECEIVER

INTEGRATED NETWORK AV RECEIVER initialization should be performed when the μ com, peripheral parts of μ com, and Digital P.W.B. were replaced.

1. Turn off the power pressing "(⏻) ON/STANDBY" button.
2. Press "(⏻) ON/STANDBY" button while simultaneously while pressing "MOVIE" and "MUSIC buttons.
3. Check that the entire display is flashing at intervals of about 1 second, and then release the 2 buttons.
The microprocessor will be initialized.

NOTE:• If step 3 fails, start over from step 1.

- All user settings will be lost and the factory setting will be recovered after the set is initialized.
So make sure to note down your setting beforehand for restoring after the initialization.



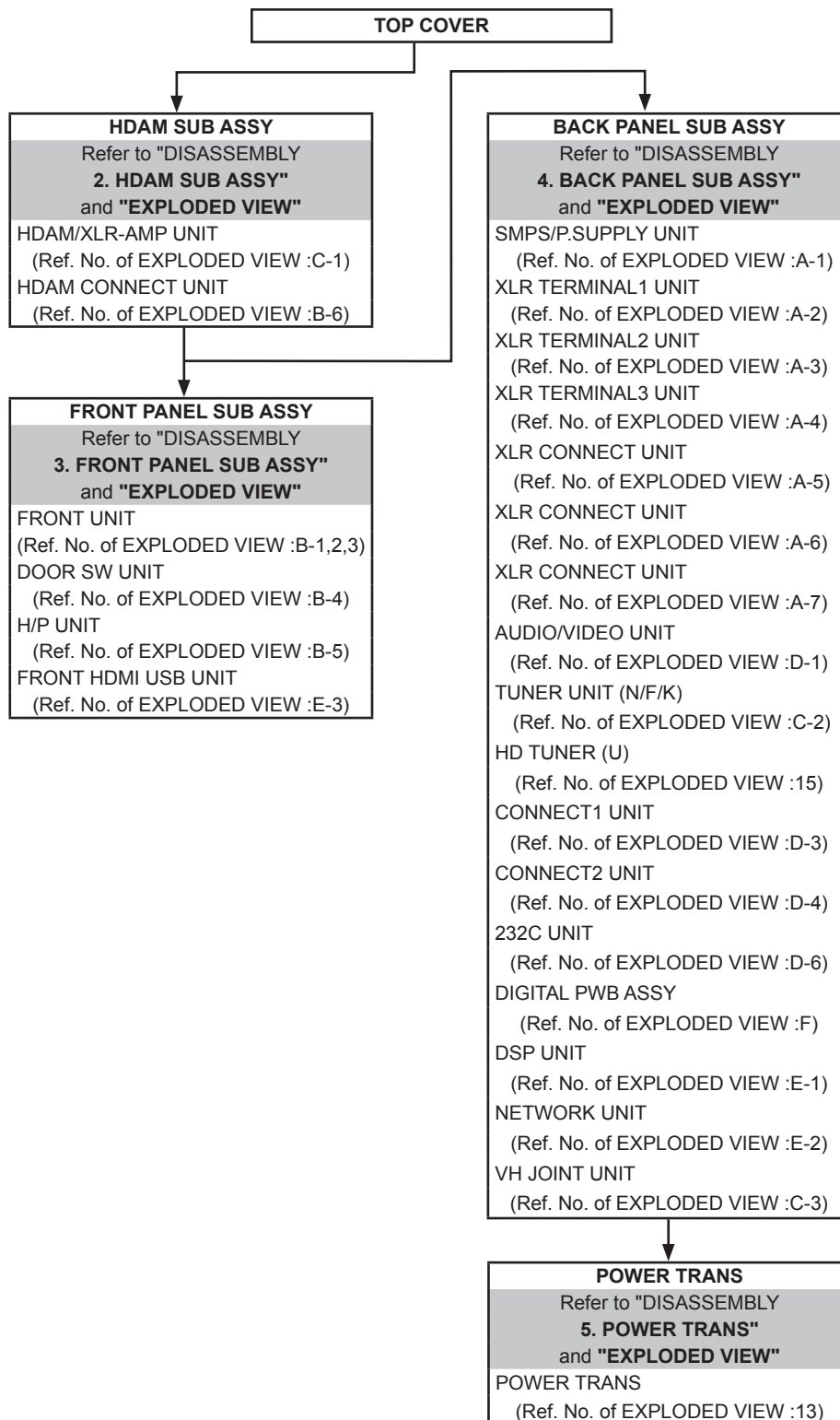
Service Jig

When you repair the printing board, you can use the following JIG (Extension cable kit).
Please order it from Official Service Distributor in your region if necessary.

8U-110084S : EXTENSION UNIT KIT : 2 Set

DISASSEMBLY

- Disassemble in order of the arrow in the following figure.
 - In the case of the re-assembling, assemble it in order of the reverse of the following flow.
 - In the case of the reassembling, observe "Caution concerning disassembly and assembly!".
 - If wire bundles are untied or moved to perform adjustment or replace parts etc., be sure to rearrange them neatly as they were originally bundled or placed afterward.
- Otherwise, incorrect arrangement can be a cause of noise generation.

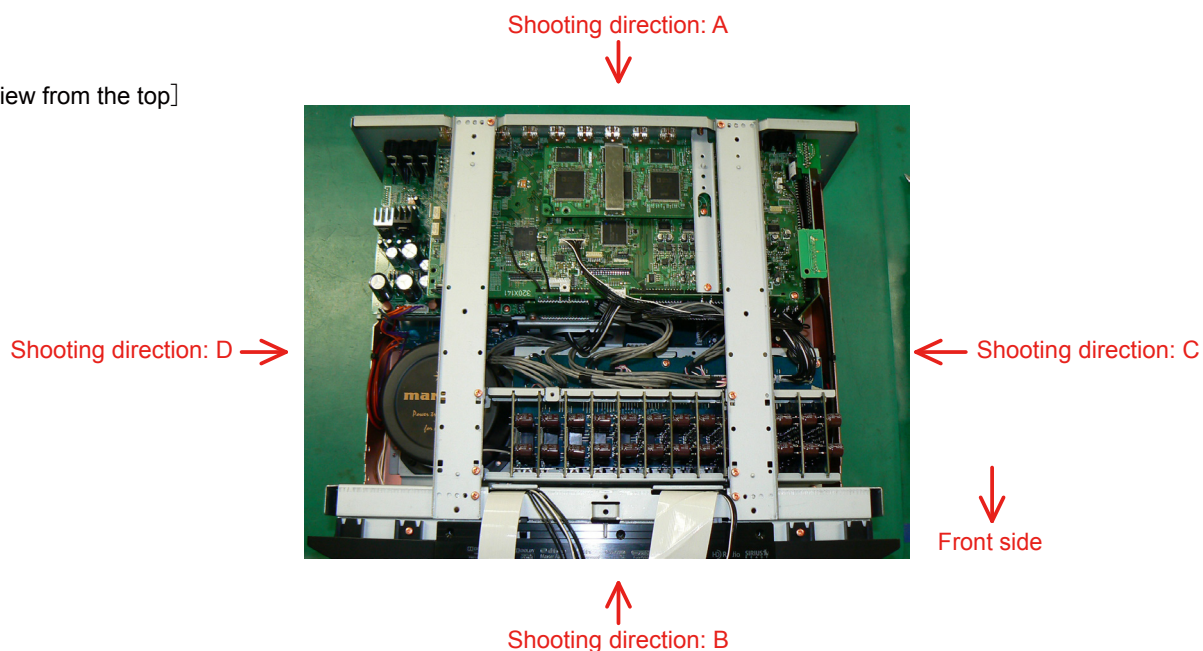


About the photos used for "descriptions of the DISASSEMBLY" section

- The shooting direction of each photograph used herein is indicated on the left side of the respective photograph as "Shooting direction: ****".
- Refer to the diagram below about the shooting direction of each photograph.
- Photographs with no shooting direction indicated were taken from the top of the set.
- The photograph is AV8801U1B model.

The viewpoint of each photograph (Shooting direction)

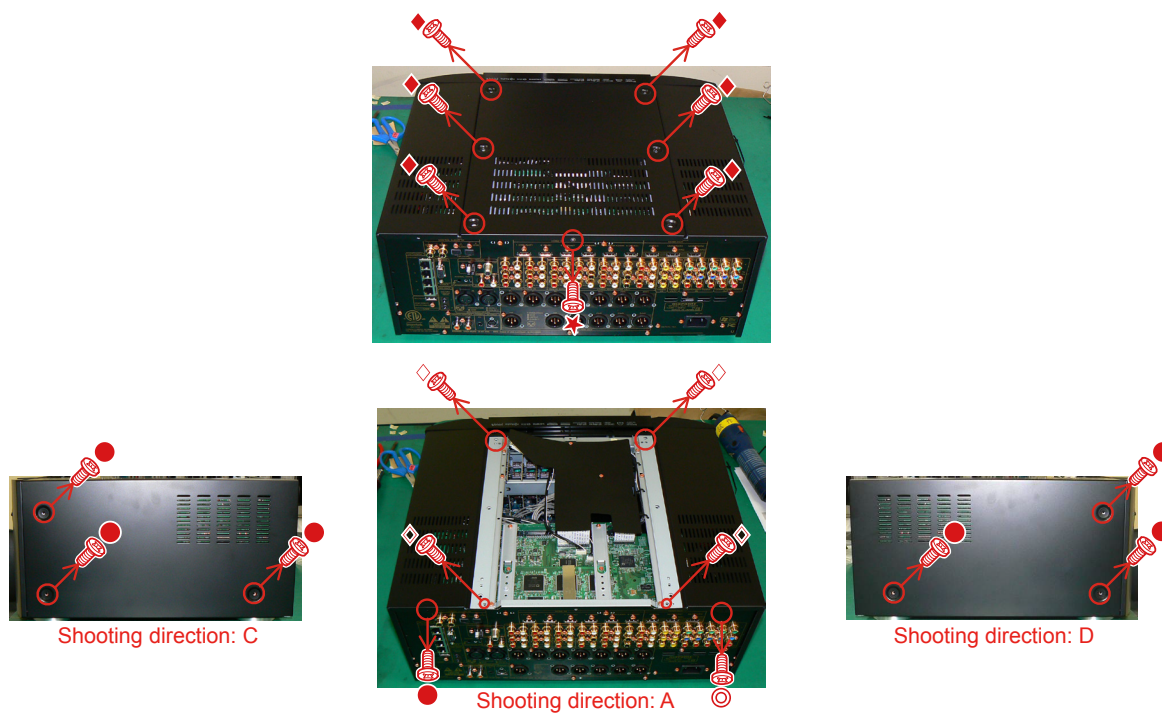
[View from the top]



1. TOP COVER

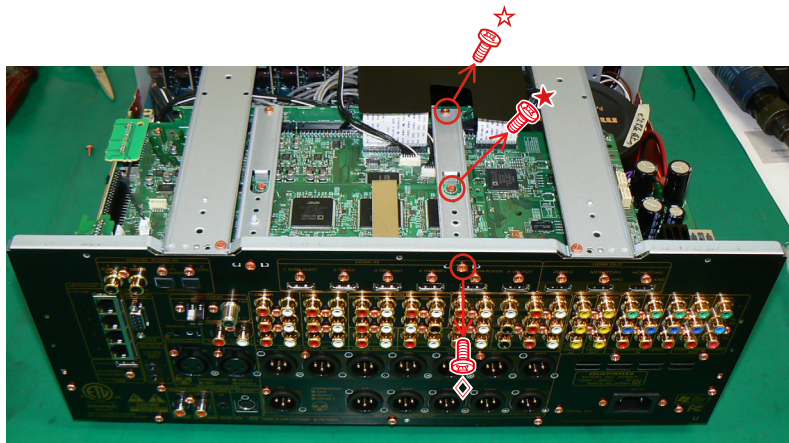
Proceeding : **TOP COVER**

(1) Remove the screws.

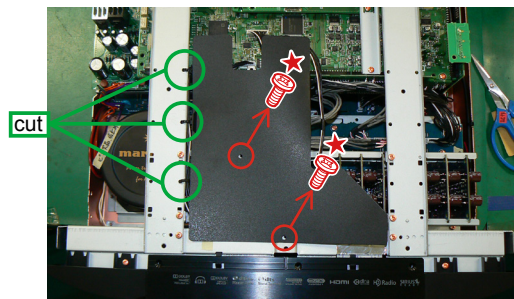


2. HDAM SUB ASSY

(1) Remove the screws.

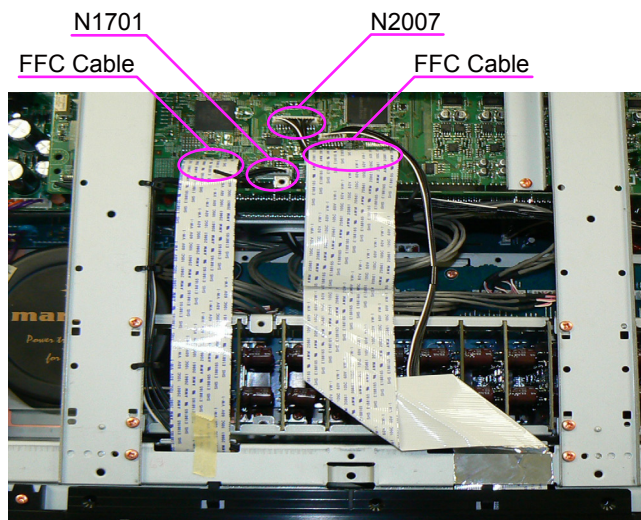


Shooting direction: A



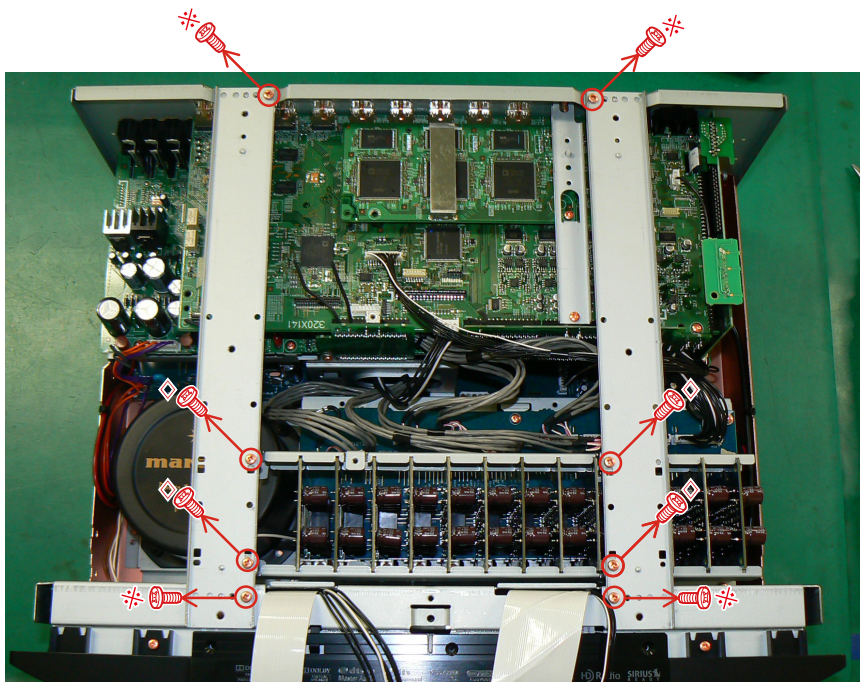
Shooting direction: B

(2) Cut the wire clamp band, then disconnect the FFC cables.

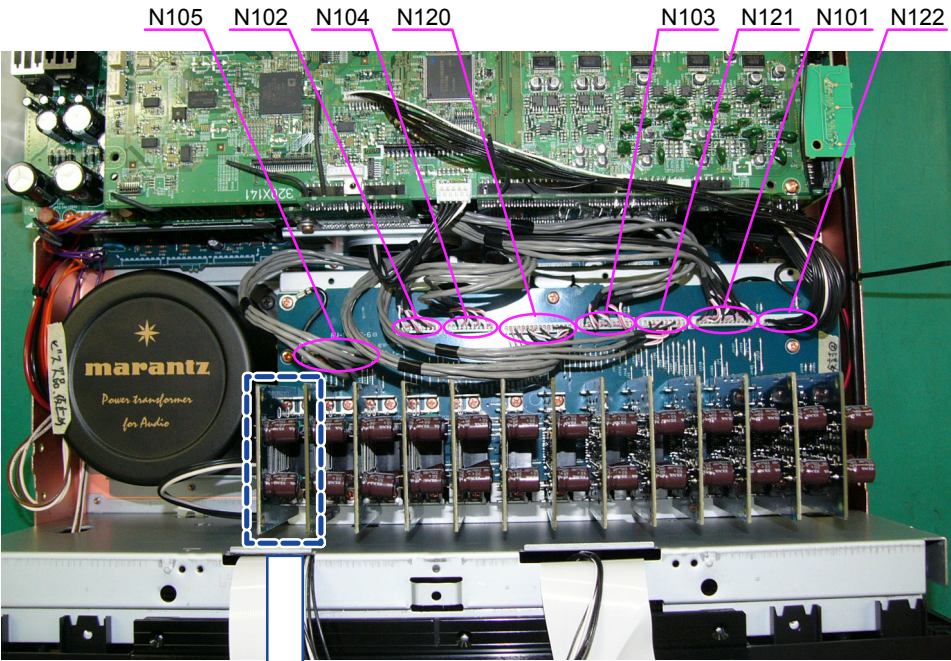


Shooting direction: B

(3) Disconnect the connector wires.



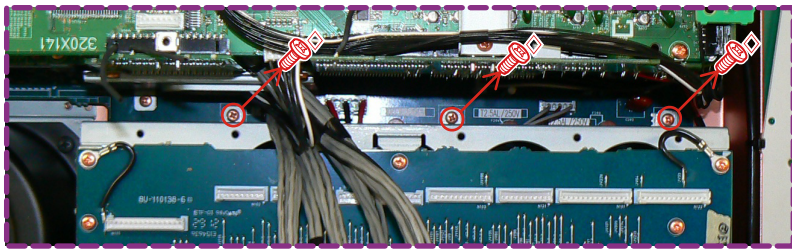
Shooting direction: B



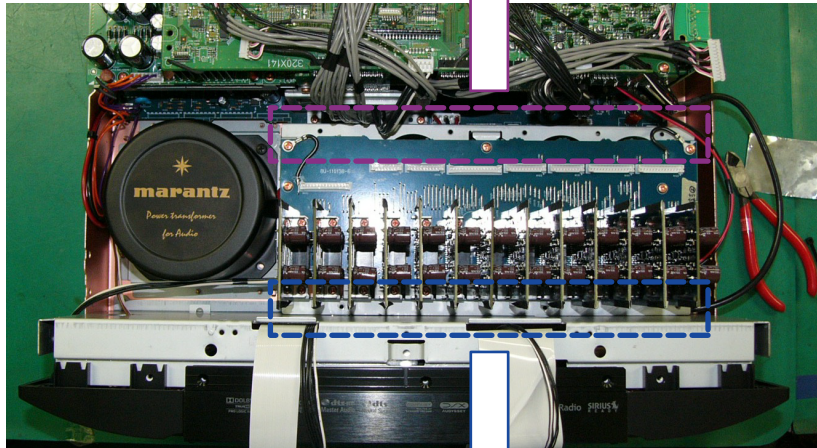
Shooting direction: B



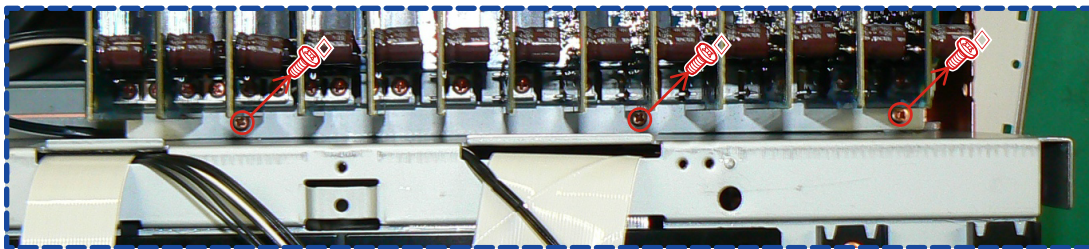
Direction of photograph: D



Direction of photograph: B



Shooting direction: B



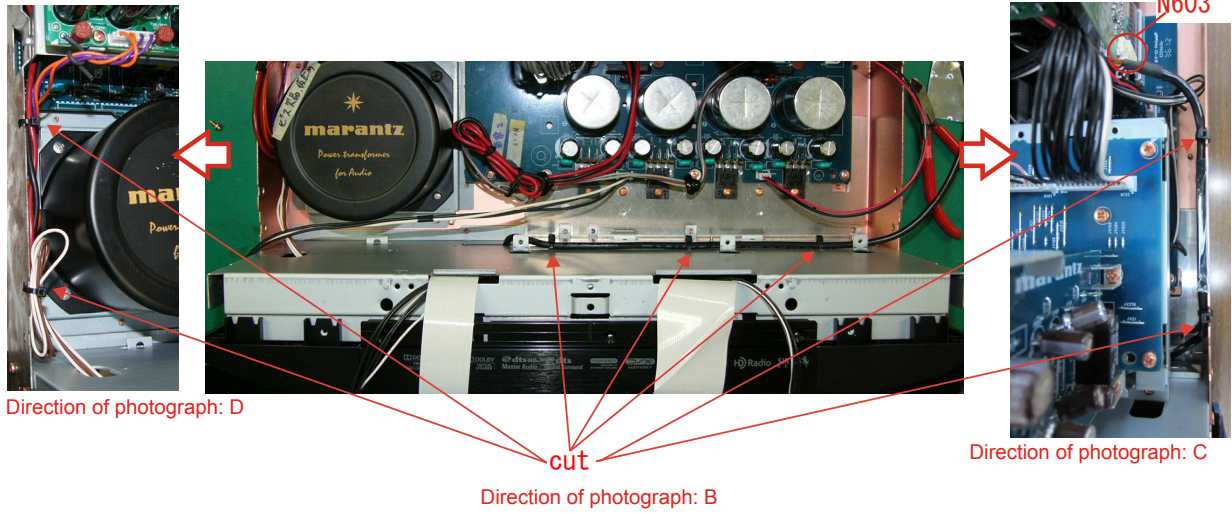
Direction of photograph: B

Please refer to "EXPLODED VIEW" for the disassembly method of each PWB included in HDAM SUB ASSY.

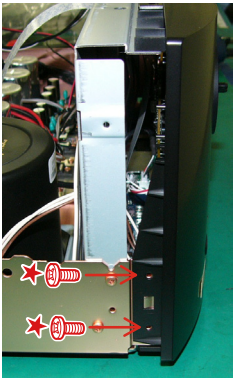
3. FRONT PANEL SUB ASSY

Proceeding : **TOP COVER** → **FRONT PANEL SUB ASSY**

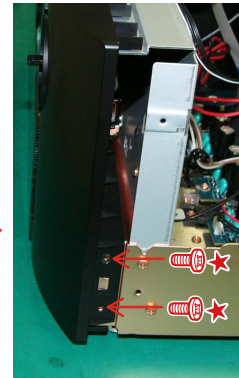
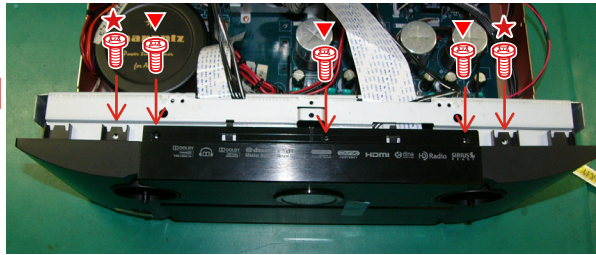
- (1) Disconnect the connector wires, then remove the screws.



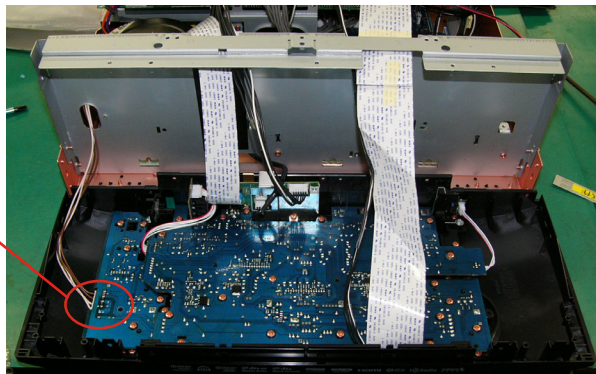
(2) Disconnect the connector wires.



Direction of photograph: D



Direction of photograph: C



N1001

Direction of photograph: B

Please refer to "EXPLODED VIEW" for the disassembly method of each PWB included in FRONT PANEL SUB ASSY.

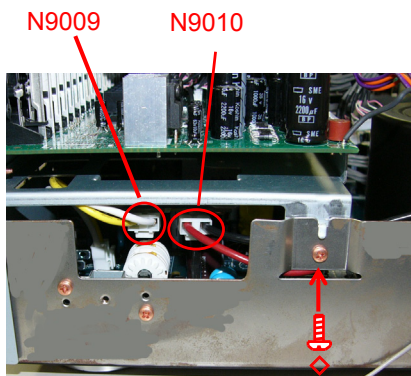
4. BACK PANEL SUB ASSY

Proceeding : **TOP COVER** → **FRONT PANEL SUB ASSY** → **BACK PANEL SUB ASSY**

(1) Disconnect the connector wires.



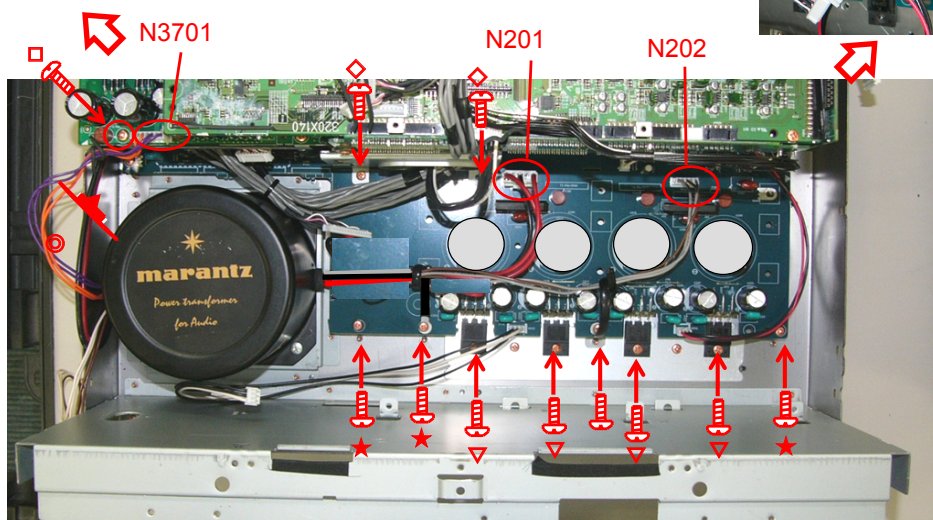
Direction of photograph: B



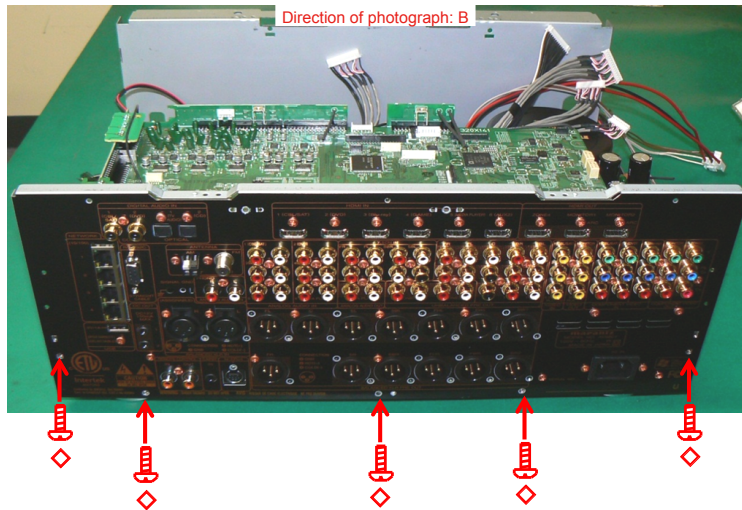
Direction of photograph: D



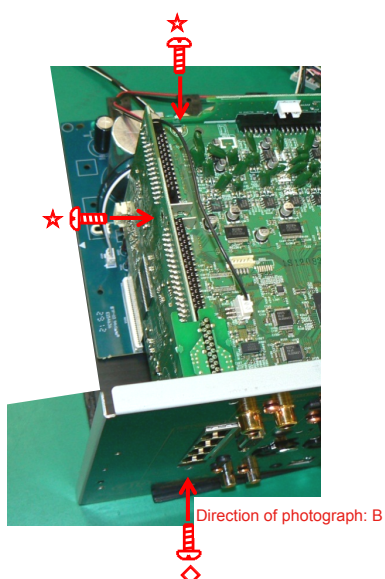
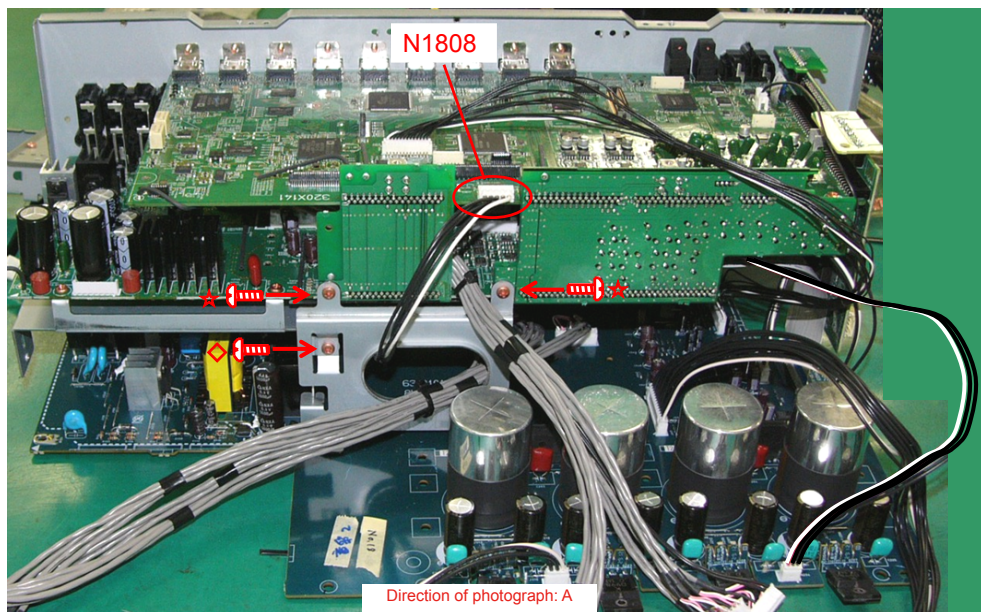
Direction of photograph: C

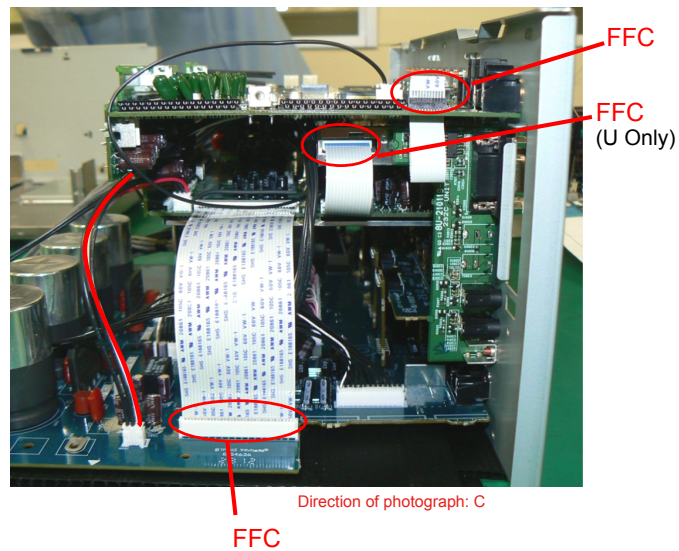


Direction of photograph: B



(2) Remove the BACK PANEL SUB ASSY from MAIN CHASSIS.



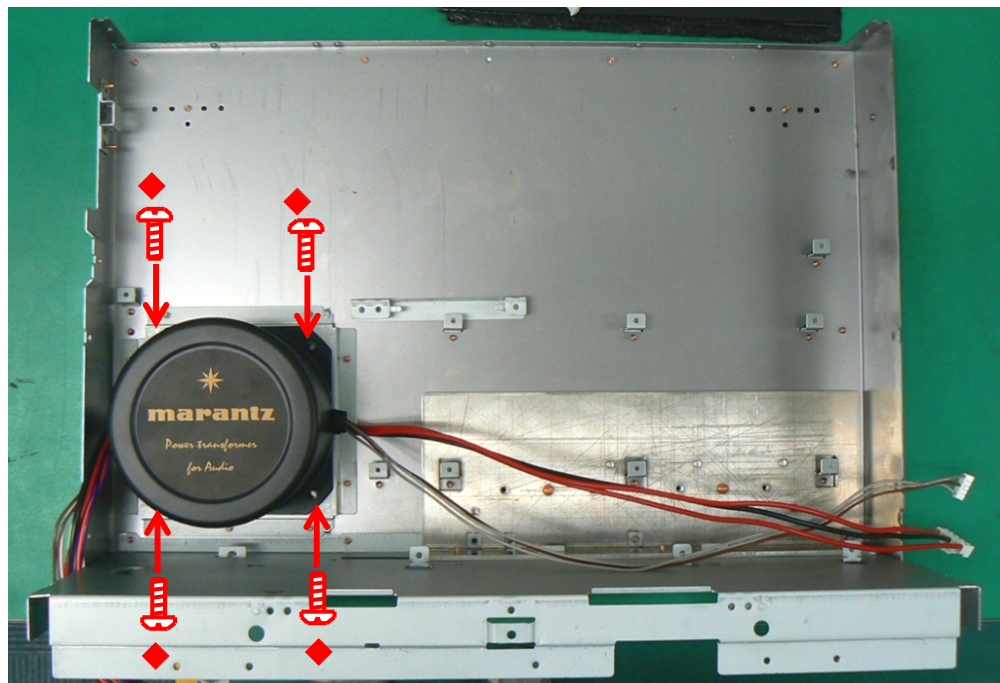


Please refer to "EXPLODED VIEW" for the disassembly method of each PWB included in BACK PANEL SUB ASSY.

5. POWER TRANS

Proceeding : **TOP COVER** → **HDAM SUB ASSY** → **FRONT PANEL SUB ASSY**
 → **BACK PANEL SUB ASSY** → **POWER TRANS**

(1) Remove the screws.



SPECIAL MODE

Special mode setting button

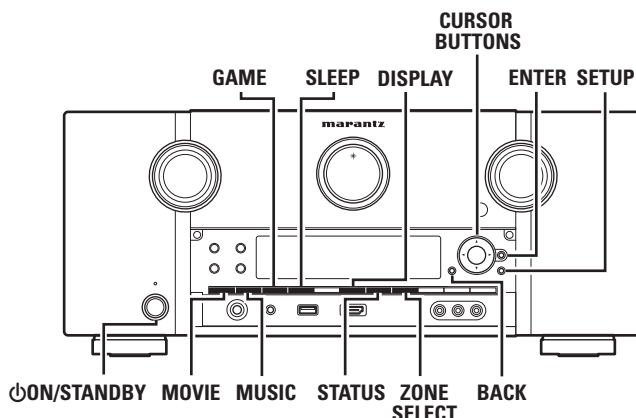
- ※ No.1 - 8 : Press the "(b) ON/STANDBY" button to turn on the power while pressing both the buttons A and the button B at the same time.
- ※ No.9 - 13 : Turn on the power, then press and hold down the A and B buttons for over 3 seconds.

No.	Mode	Button A	Button B	Contents
1	Version display (μcom/DSP Error Display)	STATUS	ZONE SELECT	Firmware versions such as Main or DSP are displayed in the FL Display. Errors are displayed when they occur. (Refer to 21 page)
2	User Initialization mode (Installer Setup settings are not initialized.)	GAME	SLEEP	Backup data initialization is carried out. (Installer Setup settings are not initialized.)
3	Factory Initialization mode (Installer Setup settings are also initialized.)	MOVIE	MUSIC	Backup data initialization is carried out. (Installer Setup settings are also initialized.)
4	PANEL/REMOTE LOCK Selection mode	BACK	ENTER	Selects to reject operations through panel buttons and the master volume knob on the main unit and operations via the remote control. (Refer to 26 page)
5	Service Related Selection mode	BACK	STATUS	Selects the "Diagnostic mode" or "Displaying the protection history mode". (Refer to 27 page)
6	Mode for switching tuner frequency step (E2 model Only)	Cursor ▲	SETUP	Change tuner frequency step to FM:50kHz/200kHz
7	Installer Setup mode	BACK	Cursor ◀	Access the Remote Maintenance mode via the internet.Installer Setup is displayed on GUI/Option Menu. ※ Refer to AVR_RemoteMaintenance_.pdf of SDI.
8	Additional Source mode	BACK	Cursor ▼	Adds AUX3-7 as a Source.
9	DM860A Reboot mode	DISPLAY	BACK	Restarts DM860.
10	DM860A initiallization mode	BACK	ENTER	Enter this mode only after replacing Nand Flash for DM860A and rewriting the firmware.
11	Memory Backup	ZONE SELECT	DISPLAY	Backup of DUAL BACKUP MEMORY is performed. (Refer to 63 page)
12	Memory Recovery	ZONE SELECT	SETUP	Recovery of DUAL BACKUP MEMORY is performed. (Refer to 63 page)
13	Memory Backup Clear	ZONE SELECT	ENTER	Backup of DUAL BACKUP MEMORY is cleared. (Refer to 63 page)

NOTE :

When the volume indicator displays " -000 ", the set has entered a special mode for developers. In this case, RS-232C communication cannot be used.

To cancel this special mode, press and hold the "DISPLAY" and "STATUS" buttons for 3 seconds and longer. When the volume indicator returns to the normal display, RS-232C communication can be used.



1. μ com/DSP Version display mode

1.1. Operation specifications

μ com/DSP version display mode:

When the set is started up in this mode, the version information is displayed.

Starting up:

Press the "(ON)" ON/STANDBY" button to turn on the power while pressing the "STATAS" and "ZONE SELECT" buttons. Now, press the "STATAS" button to the display the 2nd item information on the FL Display.

※ When the version is displayed on the FL Display, the version list is also displayed on the OSD.

1.2. Display Order

Error information(Refer to 1.3. Error display) → ① Model destination information/Serial No. →

② Firmware Package Version → ③ Main μ -com/MAIN FBL(1st Boot Loader) Version → ④ Sub μ -com/Sub FBL →

⑤ DSP1/DSP2/DSP3 version → ⑥ Audio PLD → ⑦ GUI SFLASH →

⑧ Ethernet(DM860A) 1st Boot Loader, Hardware ID → ⑨ Ethernet(DM860A) 2nd Boot Loader →

⑩ Ethernet(DM860A) IMAGE → ⑪ Ethernet(DM860A)MAC ADDRESS information →

⑫ HD RADIO SDK/HD RADIO BBP(AV8801U only) →

⑬ MultEQ Pro APP(Displayed when Audyssey Pro is complete) →

⑭ MultEQ Pro ICL(Displayed when Audyssey Pro is complete)

① Model destination information/Serial No. :

Upper	A	V	8	8	0	1	U												
Lower	S	/	N	.			*	*	*	*	*	*	*	*	*	*	*	*	*

② Firmware Package Version :

Upper		F	i	r	m	.		P	a	c	k	a	g	e					
Lower								V	e	r	.	:	*	*	*	*	*	*	*

③ Main μ -com & MAIN FBL version :

Upper		M	a	i	n					:	*	*	.	*	*				
Lower		M	a	i	n		F	B	L		:	*	*	.	*	*			

④ Sub μ -com & Sub FBL :

Upper		S	u	b				:	*	*	*	*	*	*	*	*	*	*	*
Lower		S	u	b		F	B	L		:	*	*	.	*	*				

⑤ DSP1/DSP2 ROM :

Upper		D	S	P	1					:	*	*	.	*	*				
Lower		D	S	P	2					:	*	*	.	*	*				

DSP3 ROM :

Upper		D	S	P	3					:	*	*	.	*	*				
Lower																			

⑥ Audio PLD :

Upper		A	u	d	i	o		P	L	D	:	*	*	.	*	*			
Lower																			

⑦ GUI SFLASH :

Upper		G	U	I				:	*	*	*	*	*	*	*	*	*	*	*
Lower																			

⑧ Ethernet(DM860A) 1st Boot Loader, Hardware ID :

Upper		E	t	h	e	r	n	e	t		F	B	L			
Lower	*	*	*	*	*	*	-	A	A							

⑨ Ethernet(DM860A) 2nd Boot Loader :

Upper		E	t	h	e	r	n	e	t		S	B	L			
Lower	*	*	*	*	*	*	*	*	*	*	*	*	*	-	E	E

⑩ Ethernet(DM860A) IMAGE :

Upper		E	t	h	e	r	n	e	t		I	M	G			
Lower	*	*	*	*	*	*	*	*	*	*	*	*	*			

⑪ Ethernet(DM860A)MAC ADDRESS information :

Upper	*	E	t	h	e	r	n	e	t		M	A	C			
Lower		*	*	*	*	*	*	-	*	*	*	*	*	*		

⑫ HD RADIO SDK/HD RADIO BBP (AV-8801U only) :

Upper	*	H	D	S	D	K	:					*	*	.	*	*
Lower	*	H	D	B	B	P	:	*	*	*	*	*	.	*	*	*

⑬ MultEQ Pro APP :

Upper	*	M	u	l	t	E	Q		P	r	o		A	P	P	
Lower	*	*	.	*	*	.	*	*	.	*	*	*	*			

⑭ MultEQ Pro ICL :

Upper	*	M	u	l	t	E	Q		P	r	o		I	C	L	
Lower	*	*	.	*	*	.	*	*	.	*	*	*	*			

1.3. Error display

See the following table for each "Error information" display and its explanation (status).
Display order is ①,②,③,④,⑤,⑥,⑦,⑧,⑨.

Condition	Status	FL Display	Trouble shooting
① Firm Check NG	Compared with the destination setting on the board. This is displayed when the model name or destination information written into the firmware does not match. (※1)	F I R M E R R O R	• Please check the destination-resistors (R2009/R2010, HDMI B'D). • Please write the firmware of correct destination.
② SUB NG	No response from SUB microcomputer.	S U B E R R O R 0 1	• Please check SUB (U2101) and around circuits.
③ V-DECODER NG-1	An error has occurred as a result of the DDR memory communication test while initializing Video Decoder (ADV7850).	V - D E C O D E R E R R 0 1	• Please check ADV7850 (U1102, HDMI B'D) and around circuits.
V-DECODER NG-2	No response from the DDR memory communication test while initializing Video Decoder (ADV7850).	V - D E C O D E R E R R 0 2	
④ IP SCALER NG	An error has occurred in the i/p Scaler (ADV8003) initial settings. The error is a DDR memory Loopback Test error.	I P S C A L E R E R R 0 1	• Please check ADV8003 (U1401, HDMI B'D) and around circuits.
	Testing writing data between IP SCALER and DDR resulted in no response.	I P S C A L E R E R R 0 2	
⑤ GUI Version NG	Error occurs in GUI version and Main μ-com version.(※2)	G U I V E R . E R R O R	• Please check the firmware of correct version.
⑥ DIR NG	No response from DIR	D I R E R R O R 0 1	• Please check DIR (U103, U104, HDMI B'D) and around circuits.
⑦ DSP1 NG	When DSP1 code boot is performed, the DSP FLAG0 port does not change to "H" even if DSP reset is executed.	D S P 1 E R R O R 0 1	• Please check DSP1 (U101, DSP B'D) and around circuits.
	Before DSP1 command is issued, the DSP BUSY port does not change to "L".	D S P 1 E R R O R 0 2	
	When DSP1 data read is performed, executing WRITE="L" does not result in ACK="H".	D S P 1 E R R O R 0 3	
	When DSP1 data read is performed, executing REQ="L" does not result in ACK="L".	D S P 1 E R R O R 0 4	
	When DSP1 data writing is performed, executing WRITE="H" does not result in ACK="H".	D S P 1 E R R O R 0 5	
	When DSP1 data writing is performed, executing REQ="L" does not result in ACK="L".	D S P 1 E R R O R 0 6	
DSP2 NG	When DSP2 code boot is performed, the DSP FLAG0 port does not change to "H" even if DSP reset is executed.	D S P 2 E R R O R 0 1	• Please check DSP2 (U201, DSP B'D) and around circuits.
	Before DSP2 command is issued, the DSP BUSY port does not change to "L".	D S P 2 E R R O R 0 2	
	When DSP2 data read is performed, executing WRITE="L" does not result in ACK="H".	D S P 2 E R R O R 0 3	
	When DSP2 data read is performed, executing REQ="L" does not result in ACK="L".	D S P 2 E R R O R 0 4	
	When DSP2 data writing is performed, executing WRITE="H" does not result in ACK="H".	D S P 2 E R R O R 0 5	
	When DSP2 data writing is performed, executing REQ="L" does not result in ACK="L".	D S P 2 E R R O R 0 6	

Condition	Status	FL Display	Trouble shooting
DSP3 NG	When DSP3 code boot is performed, the DSP FLAG0 port does not change to "H" even if DSP reset is executed.	D S P 3 E R R O R 0 1	• Please check DSP3 (U301, DSP B'D) and around circuits.
	Before DSP3 command is issued, the DSP BUSY port does not change to "L".	D S P 3 E R R O R 0 2	
	When DSP3 data read is performed, executing WRITE="L" does not result in ACK="H".	D S P 3 E R R O R 0 3	
	When DSP3 data read is performed, executing REQ="L" does not result in ACK="L".	D S P 3 E R R O R 0 4	
	When DSP3 data writing is performed, executing WRITE="H" does not result in ACK="H".	D S P 3 E R R O R 0 5	
	When DSP3 data writing is performed, executing REQ="L" does not result in ACK="L".	D S P 3 E R R O R 0 6	
⑧ E2PROM NG	Error occurs in E2PROM checksum.(*** is a block address number.)	E 2 P R O M E R R * * *	Please check wait 8 seconds after Power ON.
⑨ No error	ALL items of ① to ⑧ are OK.	(No error display, version display only)	

Status	FL Display
※1 The written Firmware and product settings (model name, brand name, destination) are compared. If Firmware that is not designed for this product is written, ▲ is displayed in the first column, as shown on the right.	▲ M a i n : * * * . * *
	▲ S u b : * * * * * * * *
	▲ D S P 1 : * * * . * *
	▲ D S P 2 : * * * . * *
	▲ D S P 3 : * * * . * *
	▲ A u d i o P L D : * * * . * *
	▲ G U I : * * * * * * * *
※2 When the version of Serial Flash in GUI does not match the version of Main μcom, the first column displays ▼.	▼ G U I : * * * * * * * *

1.4. Version display on the Setup Menu

Use the following procedure to display the firmware version.

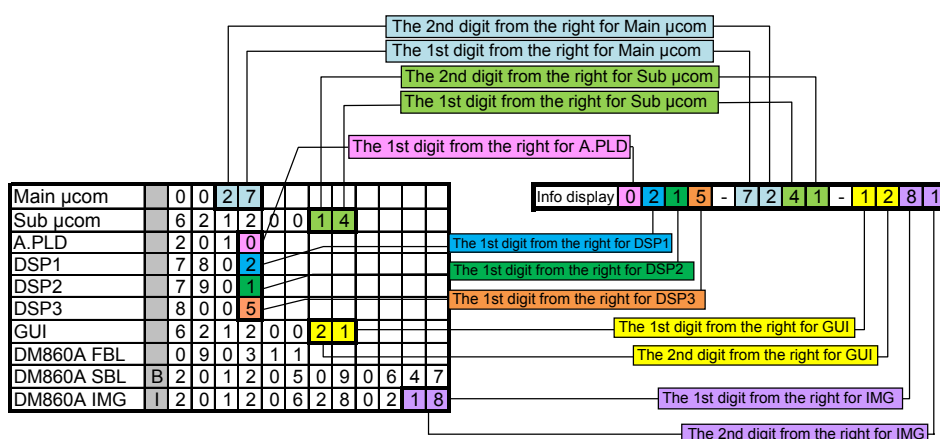
- (1) Press the "SETUP" button on the remote control.
- (2) Select "General-Information-Firmware".

A version with 12 digits is displayed as shown in the following image.

AV8801 GUI Image



The displayed 12 digits are derived from each device version as shown below



- ※ This firmware version No. (xxxx-xxxx-xxxx) is included in the service contact document. These 12 digits are also included in the document.

2. PANEL/REMOTE LOCK Selection mode

2.1. Behavior specifications

In this mode, you can switch between the PANEL LOCK MODE and the Mode for preventing remote control acceptance.

2.2. Starting up

Press the "(b) ON/STANDBY" button to turn on power while pressing the "BACK" and "ENTER" buttons.

Press the "Cursor ▲/▼" button to select the mode and the "ENTER" button to confirm the selection.

2.3. Mode selection method and how each mode is displayed

Each time you press the "Cursor ▲/▼" button, the mode displayed on the FL DISPLAY changes.

While the desired mode name is displayed on the FL DISPLAY, press the "ENTER" button. The set is restarted and the selected mode takes effect.

The currently set item is marked with " * ".

①

Upper	▶	F	P	/	V	O	L		L	O	C	K	*	O	n	
Lower		F	P		L	O	C	K						O	n	

Operations using the main unit panel buttons and the master volume knob are rejected.

②

Upper		F	P	/	V	O	L		L	O	C	K	*	O	n	
Lower	▶	F	P		L	O	C	K						O	n	

Operations using the main unit panel buttons are rejected.

③

Upper		F	P		L	O	C	K					*	O	n	
Lower	▶	F	P		L	O	C	K						O	f	f

Panel lock mode is cancelled.

④

Upper		F	P		L	O	C	K					*	O	f	f
Lower	▶	R	C		L	O	C	K						O	n	

Operations using the remote control are rejected.

⑤

Upper		R	C		L	O	C	K						O	n	
Lower	▶	R	C		L	O	C	K					*	O	f	f

RC lock mode is cancelled.

3. Service Related Selection mode

3.1. Behavior specifications

In this mode, you can switch between the Diagnostic mode (SERVICE CHECK), the 232C clear mode (RS232C RESET) and the operation information (OP INFO).

3.2. Starting up

Press the "(⏻) ON/STANDBY" button to turn on power while pressing the "BACK" and "STATUS" buttons.

Press the "Cursor ▲/▼" button to select the mode and press the "ENTER" button to restart the set and make the setting take effect.

①

Upper	▶	1	.	S	E	R	V	I	C	E		C	H	E	C	K
Lower		2	.	P	R	O	T	E	C	I	O	N				

This mode is used for confirming the Video and Audio (signal) paths. (Diagnostic mode)

The signal paths of the set can be easily confirmed after repair.

②

Upper		1	.	S	E	R	V	I	C	E		C	H	E	C	K
Lower	▶	2	.	P	R	O	T	E	C	I	O	N				

AV8801 does not support the protection history function.

③

Upper		2	.	P	R	O	T	E	C	I	O	N				
Lower	▶	3	.	R	S	2	3	2	C		R	E	S	E	T	

The 232C standby mode is changed to the Normal standby mode.

④

Upper		3	.	R	S	2	3	2	C		R	E	S	E	T	
Lower	▶	4	.	O	P		I	N	F	O						

The operation information about the set can be checked.

3.3. Canceling Service Related Selection mode

Turn off the power by pressing the "(⏻) ON/STANDBY" button.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

3.4. DIAGNOSTIC MODE (Video/Audio (signal) path confirmation mode

3.4.1. Specification

This mode is used for confirming the Video and Audio (signal) paths. (Troubleshooting)
Confirming the operation of unit can be easily done after repair.
Backup data will not be lost.

3.4.2. Starting diagnostic mode

Press the "(⏻) ON/STANDBY" button to turn on power while pressing the "BACK" and "STATUS" buttons.
Select "1. SERVICE CHECK" and press "ENTER" to start the set in the Diagnostic mode.
In this mode, TUNED, STEREO and RDS are lit in FL display.

3.4.3. Canceling diagnostic mode

Turn off the power by pressing the "(⏻) ON/STANDBY" button.

3.4.4. Operation

Use the remote control (RC019SR) that is supplied with the AV8801 model. Press buttons on the remote control in the order indicated in the “Details of how to operate remote control”^(a) column in the following table to establish the confirmation path.
You will find using another remote control unit with the macro functions very useful. To use the macro functions, program a macro function to output a remote control code in accordance with the steps in the table below.

NOTE
Turn on ZONE2 and ZONE3.
Turn on ZONE4 only when ZONE4 HDMI Pass is checked.

3.4.5. Video system confirmation items

fig.XX : Refer to the block diagram of the fig.XXth.

Confirmation item		Setting and display	Details of how to operate remote controller *a)	Output sequence of remote control codes ※ It is useful to form a macro program. *b)	Contents of confirmation	Remarks
1	Analog Video (signal) Path	Video Convert (IP Scaler) : OFF , All Sources MAIN ZONE, ZONE2 : ON Display: U01 DVD	1.Press [AVP]	①KEY 1 (Main Zone) Initialization & Video Convert All OFF	·Input : CVBS / Output : CVBS ·Input : CVBS / Output : CVBS RECOUT (MEDIA PLAYER) ·Input : CVBS / Output : CVBS ZONE2 ·Input : Component / Output : Component ·Input : Component / Output : Component ZONE2 ·input ETHERNET / Output :CVBS (※ As the input source, you can switch from DVD to other ones.)	
			2.Press [ZONE SELECT], Select "MAIN" 3.Press [1] 4.Press [DVD]	②DVD (Main Zone)		
2	HDMI (signal) Path (Main Zone)	Video Convert(IP Scaler) : OFF, All Sources Display: U01 DVD	1.Press [AVP]	①KEY1 (Main Zone) Initialization & Video Convert All OFF	·Input : HDMI / Output : HDMI (※ As the input source, you can switch from DVD to other ones.)	MHL Path confirm to switch to "AUX1" input source.
			2.Press [ZONE SELECT], Select "MAIN" 3.Press [1] 4.Press [DVD]	②DVD (Main Zone)		
3	Analog or HDMI to HDMI (signal) Path	Video Convert(IP Scaler) : ON, All Sources IP Scaler : Analog & HDMI , All Sources Resolution : "AUTO", All Sources Display: U02 DVD	1.Press [AVP]	①KEY 2 (Main Zone) Initialization & Video Convert All ON & IP Scaler "Analog & HDMI"	·Input CVBS / Through : IP Scaler / Output : HDMI ·Input Component / Through : IP Scaler / Output : HDMI ·Input HDMI / Through : IP Scaler / Output : HDMI ·Input ETHERNET / Through : IP Scaler / Output : HDMI (※ As the input source, you can switch from DVD to other ones.)	Confirm the input pass one by one. Because it becomes only the input of the highest input becomes Convert/IP Scaler (signal) Path if it inputs it at the same time. (HDMI input > Component input > CVBS input)
			2.Press [ZONE SELECT], Select "MAIN" 3.Press [2] 4.Press [ZONE OFF]	②DVD (Main Zone)		
4	GUI FUNCTION	Video Convert(IP Scaler) : ON, All Sources IP Scaler : Analog & HDMI , All Sources Resolution : "AUTO", All Sources Menu : ON Display: U02 DVD	1.Press [AVP]	①KEY 2 (Main Zone) Initialization &VideoConvert All ON & IP Scaler"Analog&HDMI"	·GUI Display / Output : HDMI (※ As the input source, you can switch from DVD to other ones.)	
			2.Press [ZONE SELECT], Select "MAIN" 3.Press [2] 4.Press [DVD] 5.Press [SETUP]	②DVD (Main Zone) ③GUI MENU (Main Zone)		
5	CEC FUNCTION (Control Monitor : HDMI Monitor1)	HDMI Control : ON Control Monitor : Monitor1 (When checking the HDMI Monitor Out1) Display: U03 DVD	1.Press [AVP]	①KEY 3 (Main Zone) Initialization & CEC Control ON & Select Control Monitor 1	·When the power supply of a TV is put in the standby mode, make sure that the power supply of this unit is also put in the standby mode. (※ As the input source, you can switch from DVD to other ones.)	ARC Path confirm to switch to "TV AUDIO" input source
			2.Press [ZONE SELECT], Select "MAIN" 3.Press [3] 4.Press [DVD]	②DVD (Main Zone)		
6	CEC FUNCTION (Control Monitor : HDMI Monitor 2)	HDMI Control : ON Control Monitor : Monitor 2 (When checking the HDMI Monitor Out 2) Display: U04 DVD	1.Press [AVP]	①KEY 4 (Main Zone) Initialization & CEC Control ON & Select Control Monitor 2	When the power supply of a TV is put in the standby mode, make sure that the power supply of this unit is also put in the standby mode. (※ As the input source, you can switch from DVD to other ones.)	
			2.Press [ZONE SELECT], Select "MAIN" 3.Press [4] 4.Press [DVD]	②DVD (Main Zone)		

Confirmation item		Setting and display	Details of how to operate remote controller *a)	Output sequence of remote control codes ※ It is useful to form a macro program. *b)	Contents of confirmation	Remarks
7	HDMI Audio (signal) Path (Audio : AVR)	Audio : AVR(When checking the audio output from AVR) Display: U05 DVD	1.Press [AVP] 2.Press [ZONE SELECT], Select "MAIN" 3.Press [5]	①KEY 5 (Main Zone) Initialization & Select Audio AVR	·Input : HDMI (Signal of PCM2ch, DolbyDigital or DTS) / Output : Speakers ·Input : HDMI (Signal of HD Audio) / Output : Speakers (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [DVD]	②DVD (Main Zone)		
8	HDMI Audio (signal) Path (Audio : TV)	Audio : TV(When checking the audio output from TV) Display: U06 DVD	1.Press [AVP] 2.Press [ZONE SELECT], Select "MAIN" 3.Press [6]	①KEY 6 (Main Zone) Initialization & Audio Select TV	·Input : HDMI (Signal of PCM2ch) / Output : HDMI (Audio output from connected TV) (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [DVD]	②DVD (Main Zone)		
9	HDMI (signal) Path (ZONE4)	Video Convert(IP Scaler) : OFF, All Sources MAIN ZONE, ZONE4 : ON Display: U01 DVD	1.Press [AVP] 2.Press [ZONE SELECT], Select "MAIN" 3.Press [1]	①KEY1 (Main Zone) Initialization & Video Convert All OFF	·Input : HDMI (ZONE4 Function) / Output : HDMI (ZONE4) (※ As the input source, you can switch from DVD to other ones.)	ZONE4 CEC is confirmed you set below. Setup Menu → Video → HDMI Setup → Control Monitor → ZONE4
			4.Press [DVD]	②DVD (Main Zone)		

3.4.6. Audio system confirmation items

fig.XX : Refer to the block diagram of the fig.XXth.

Confirmation item		Setting and display	Details of how to operate remote controller	Output sequence of remote control codes ※ It is useful to form a macro program.	Contents of confirmation	Remarks
1	Analog (signal) Path	Input Mode : Fixed ANALOG SURROUND mode : DIRECT Display: A01 DVD	1.Press [AVP] 2.Press [ZONE SELECT], Select "MAIN" 3.Press [7]	①KEY 7 (Main Zone) Initialization & Input Mode Fixed ANALOG & SURROUND mode DIRECT	·Input : Analog / Output : Pre OUT(Front L/R) (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [DVD]	②DVD (Main Zone)		
2	DIGITAL (signal) Path (MAIN)	Input Mode : Fixed DIGITAL Display: A02 DVD	1.Press [AVP] 2.Press [ZONE SELECT], Select "MAIN" 3.Press [8]	①KEY 8 (Main Zone) Initialization & Input Mode Fixed DIGITAL	·Input : Digital / Output : Pre OUT(Front L/R) (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [DVD]	②DVD (Main Zone)		
3	DIGITAL (signal) Path (ZONE2)	Input Mode : Fixed DIGITAL Display: A03 NETWORK	1.Press [AVP] 2.Press [ZONE SELECT], Select "MAIN" 3.Press [9]	①KEY 9 (Main Zone) Initialization & Input Mode Fixed DIGITAL	·Input : Network or iPod/USB / Output : Pre OUT(ZONE2 L/R) (※ As the input source, confirm the operation in Network or iPod/USB.)	
			4.Press [NETWORK]	②NETWORK (Main Zone)		
4	HDMI (signal) Path	Input Mode : Fixed HDMI Display: A05 DVD	1.Press [AVP] 2.Press [ZONE SELECT], Select "MAIN" 3.Press [MOVIE]	①MOVIE Initialization & Input Mode Fixed HDMI	·Input : HDMI / Output : Pre OUT(Front L/R) (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [DVD]	②DVD (Main Zone)		
5	A/D (signal) Path (Main Zone)	SURROUND mode : Multi ch STEREO Vol -20dB Speaker Config : SSSSSSY (Front/Center/Surround/SourroundBack(2sp)/FrontHeight/ FrontWide : Small, SW : Yes(2sp)) Display: A06 DVD	1.Press [AVP] 2.Press [ZONE SELECT], Select "MAIN" 3.Press [MUSIC]	①MUSIC Initialization & SURROUND mode : Multi ch STEREO & Volume -20dB	·Input : Analog / Output : Pre OUT(Front L/R), SW(20Hz) (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [DVD]	②DVD (Main Zone)		
6	Amp Assign (signal) Path (Amp Assign : ZONE2)	ZONE2 Function : Source Zone2 Vol -20dB Display: A07 DVD	1.Press [AVP] 2.Press [ZONE SELECT], Select "MAIN" 3.Press [PURE]	①GAME Initialization & ZONE2 Volume -20dB	·Input : Analog / Output : Pre OUT (ZONE2 L/R) (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [DVD]	②DVD (Main Zone)		
7	Amp Assign (signal) Path (Amp Assign : ZONE3)	ZONE3 Function : Source Zone3 Vol -20dB Display: A08 DVD	1.Press [AVP] 2.Press [ZONE SELECT], Select "MAIN" 3.Press [PURE]	①DIRECT Initialization & ZONE3 Volume -20dB	·Input : Analog / Output : Pre OUT (ZONE3 L/R) (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [DVD]	②DVD (Main Zone)		

Confirmation item		Setting and display	Details of how to operate remote controller	Output sequence of remote control codes ※ It is useful to form a macro program.	Contents of confirmation	Remarks
8	External in Path 7.1CH IN	Amp assign : 9.1ch (SB/FH/FW) Input mode : Fixed 7.1CH IN Vol -20dB Speaker Config : Set as all Speakers=Small/ SW=2ch Display: A19 DVD	1.Press [AVP] 2.Press [ZONE SELECT], Select "MAIN" 3.Press [■]	① [■] Initialization & Input mode : Fixed 7.1CH IN	·Input: 7.1CH IN / Output: Pre OUT (All CH) (※ As the input source, you can switch from DVD to other ones.)	
			4.Press [DVD]	②DVD (Main Zone)		

BLOCK DIAGRAM

fig.1

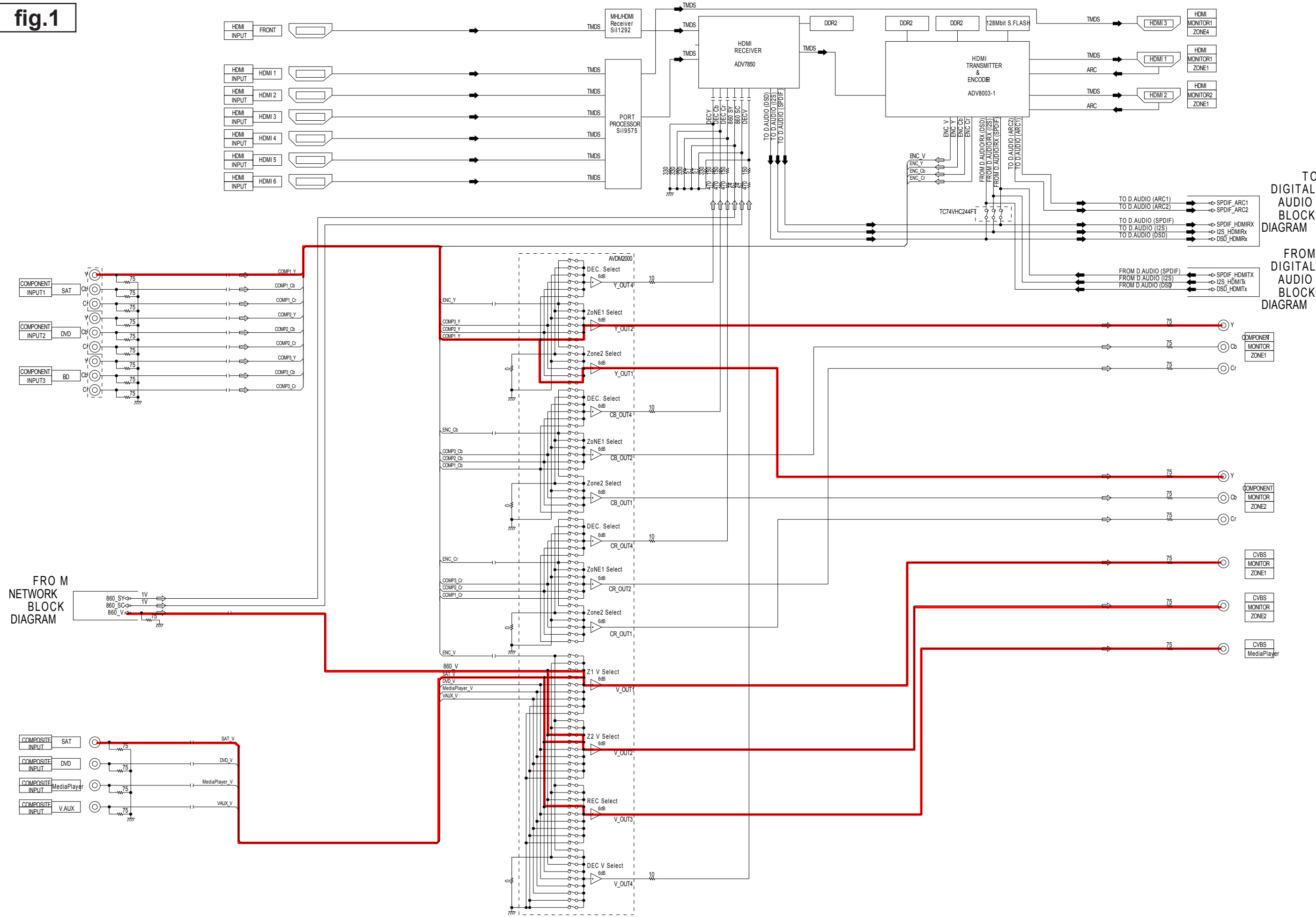


fig.2

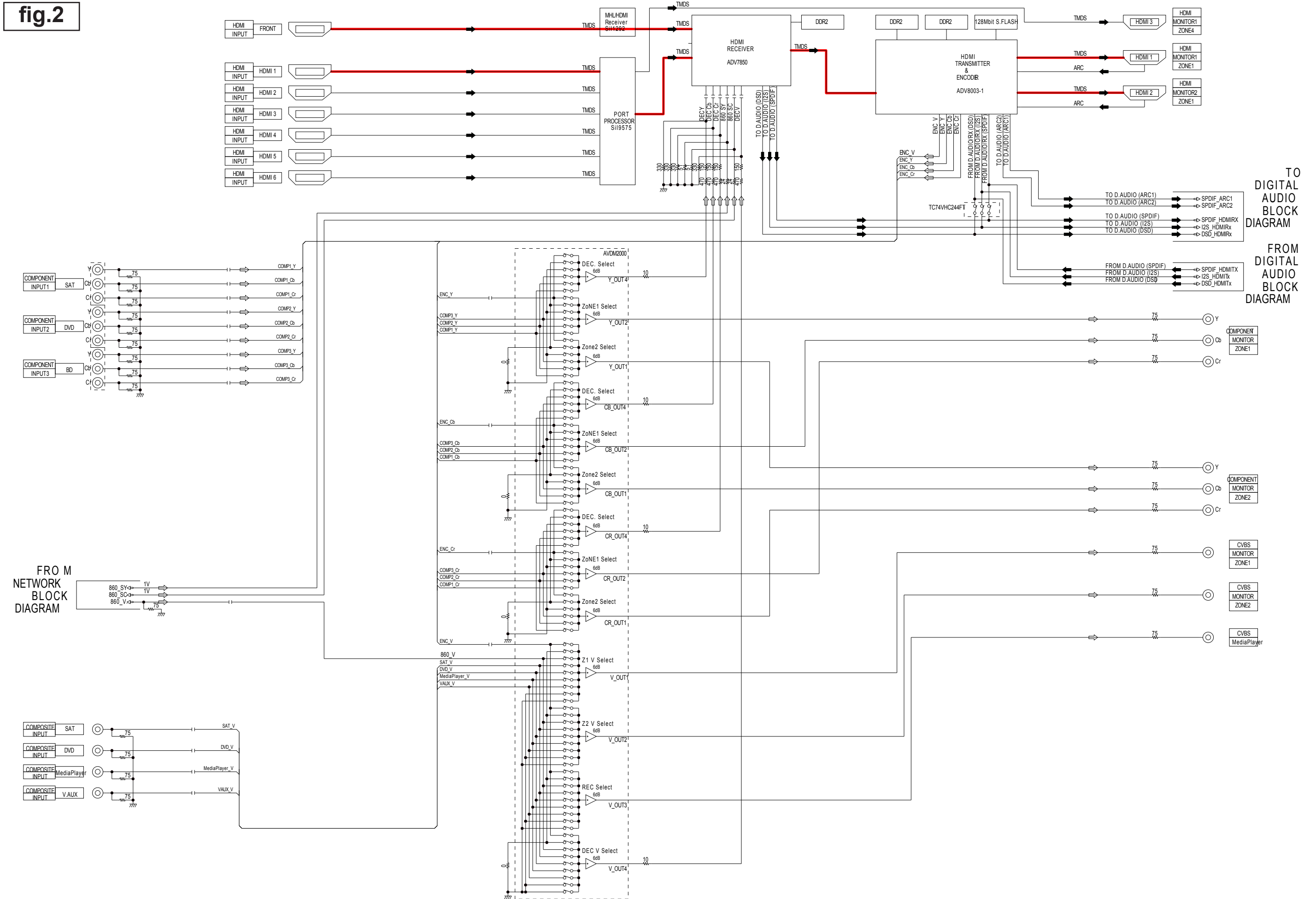


fig.3

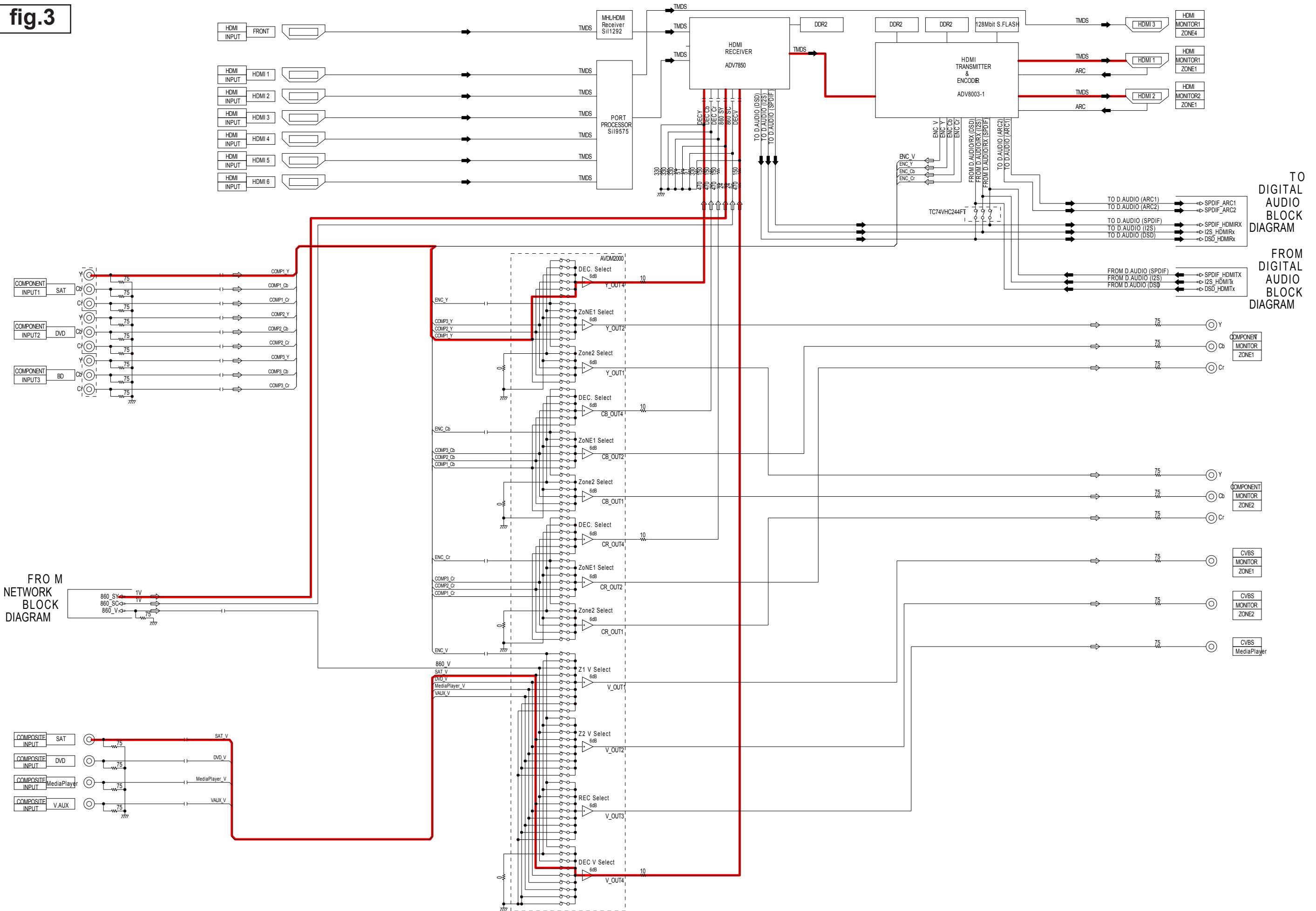


fig.4

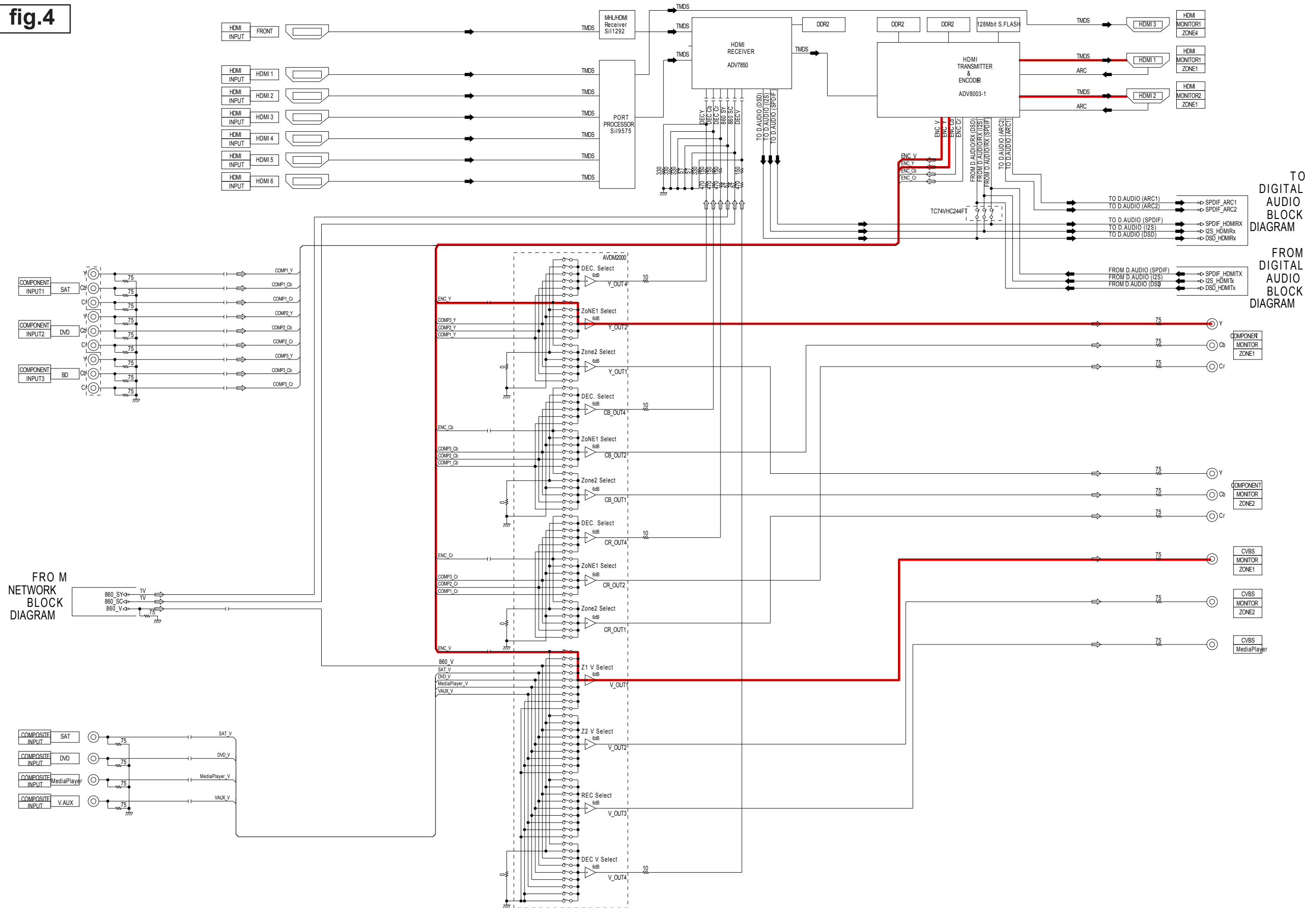


fig.5

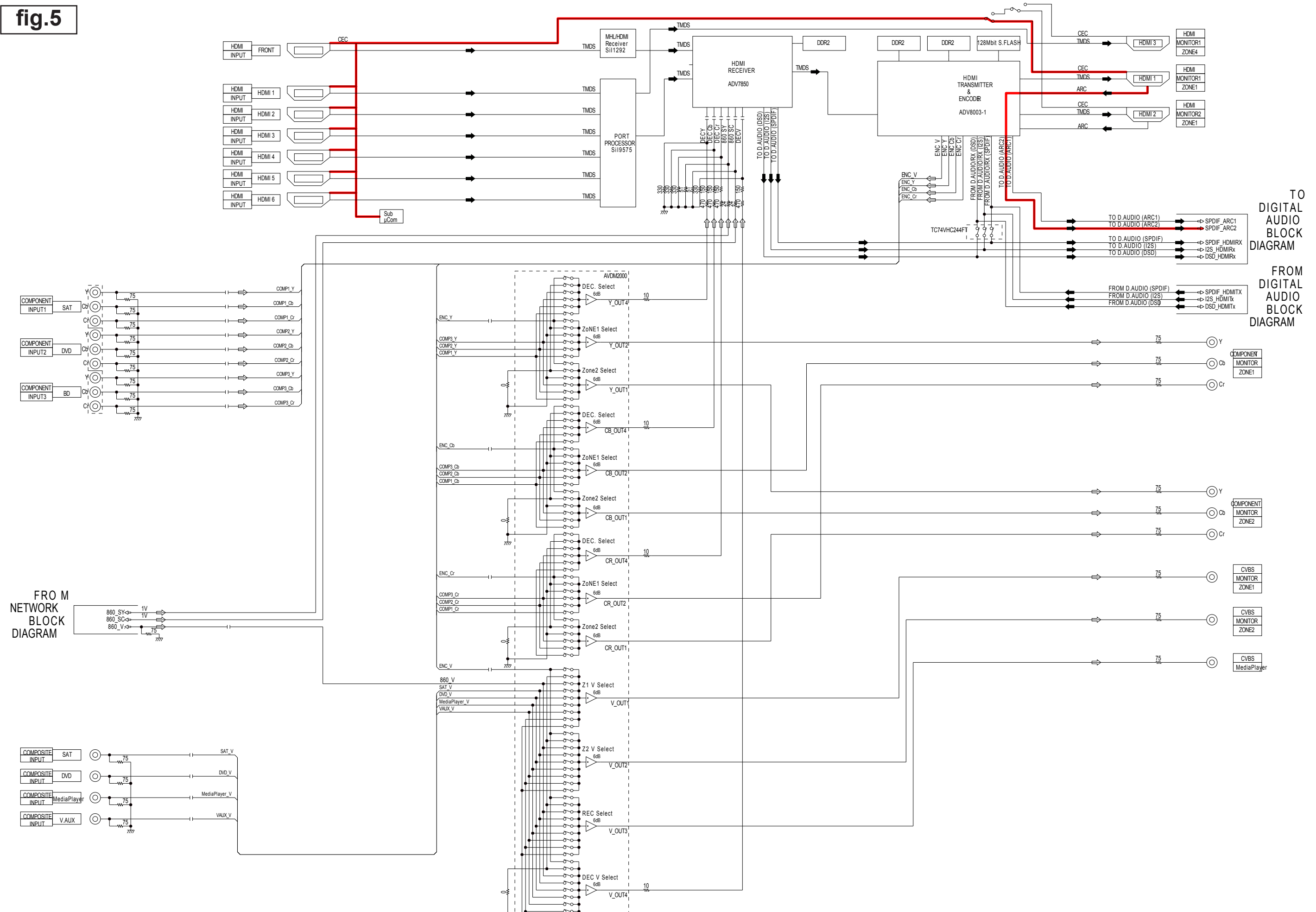


fig.6

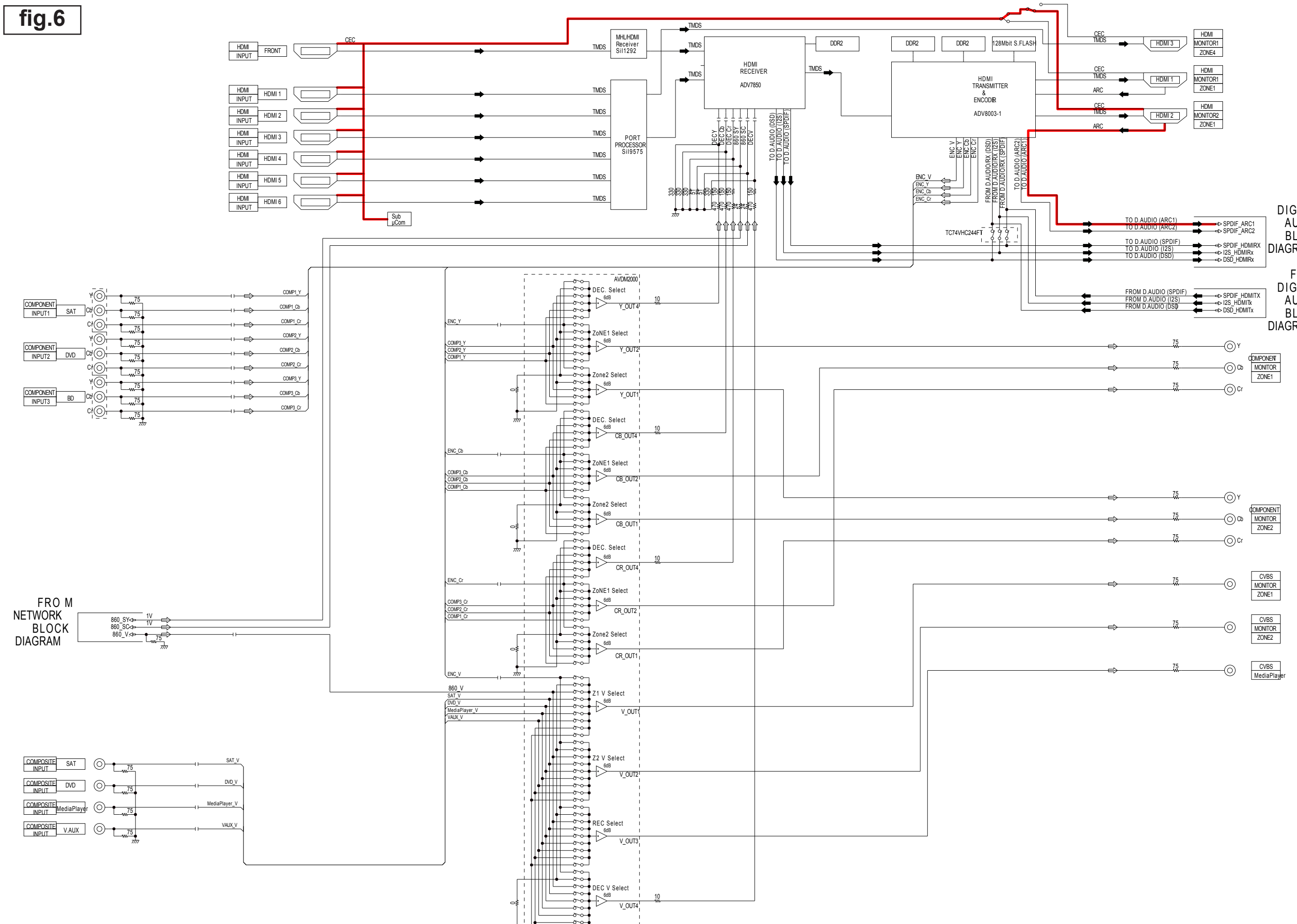
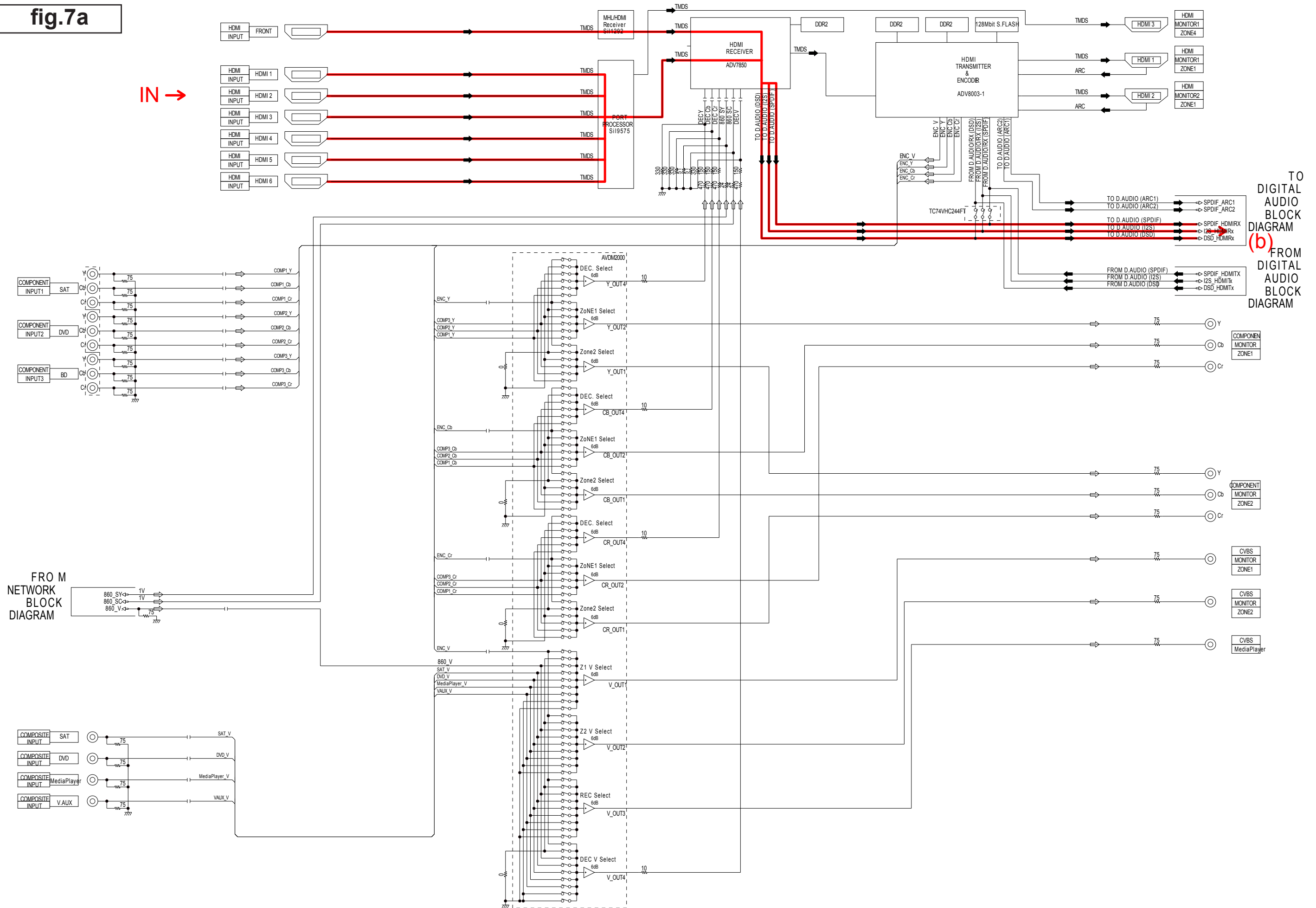


fig.7a

IN →



TO
DIGITAL
AUDIO
BLOCK
DIAGRAM
(b)
FROM
DIGITAL
AUDIO
BLOCK
DIAGRAM

fig.7b

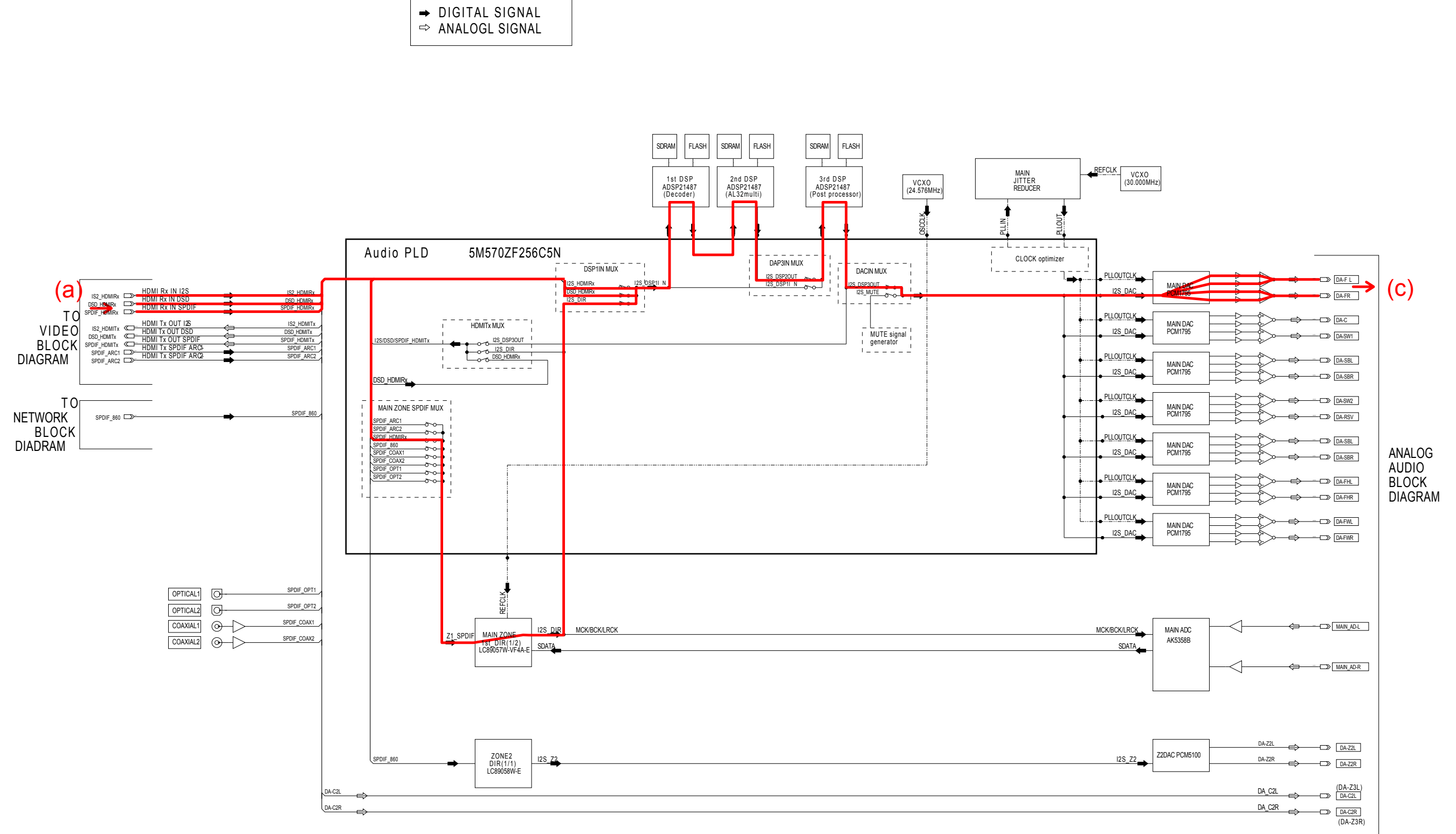


fig.7c

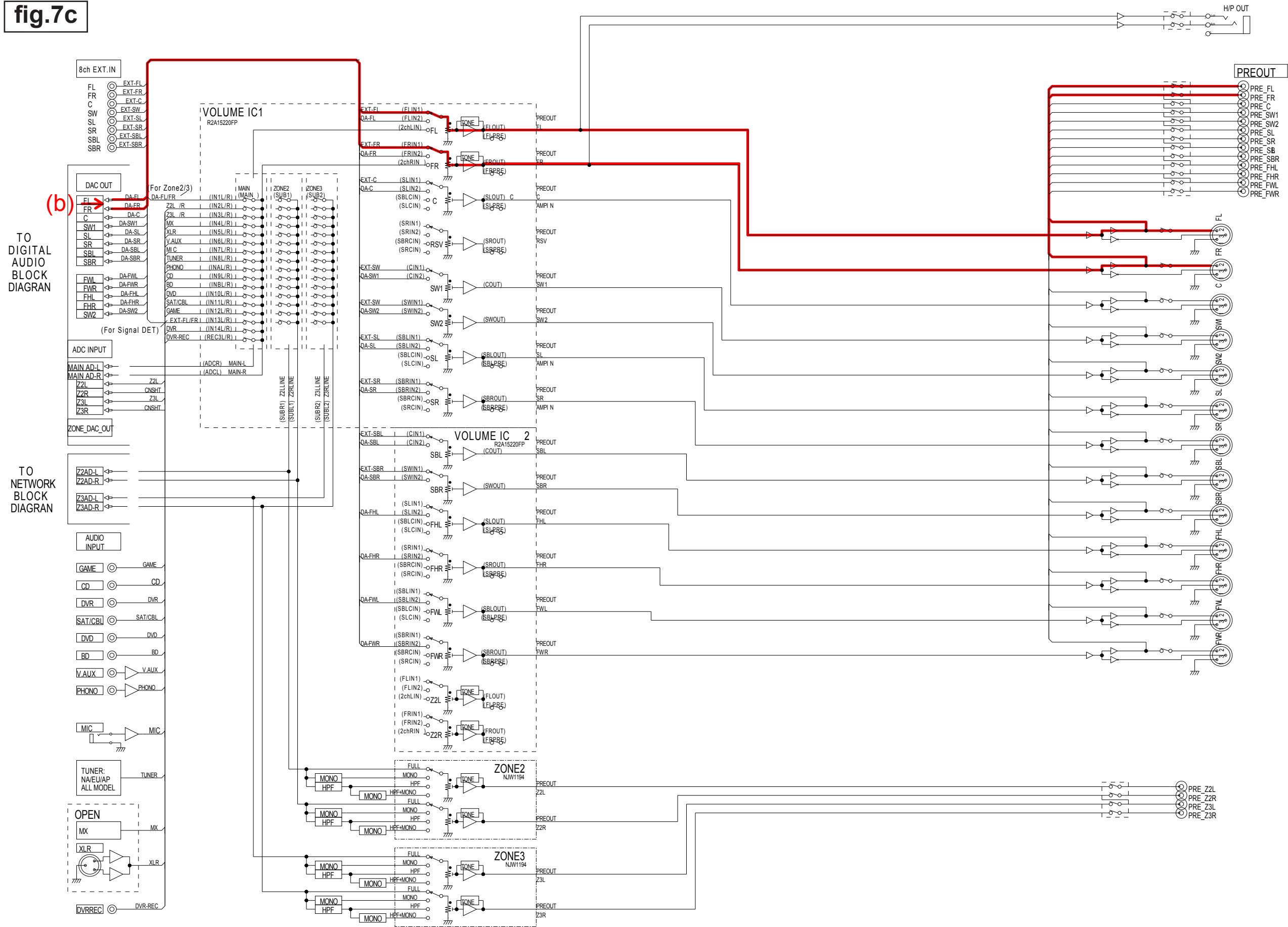


fig.8a

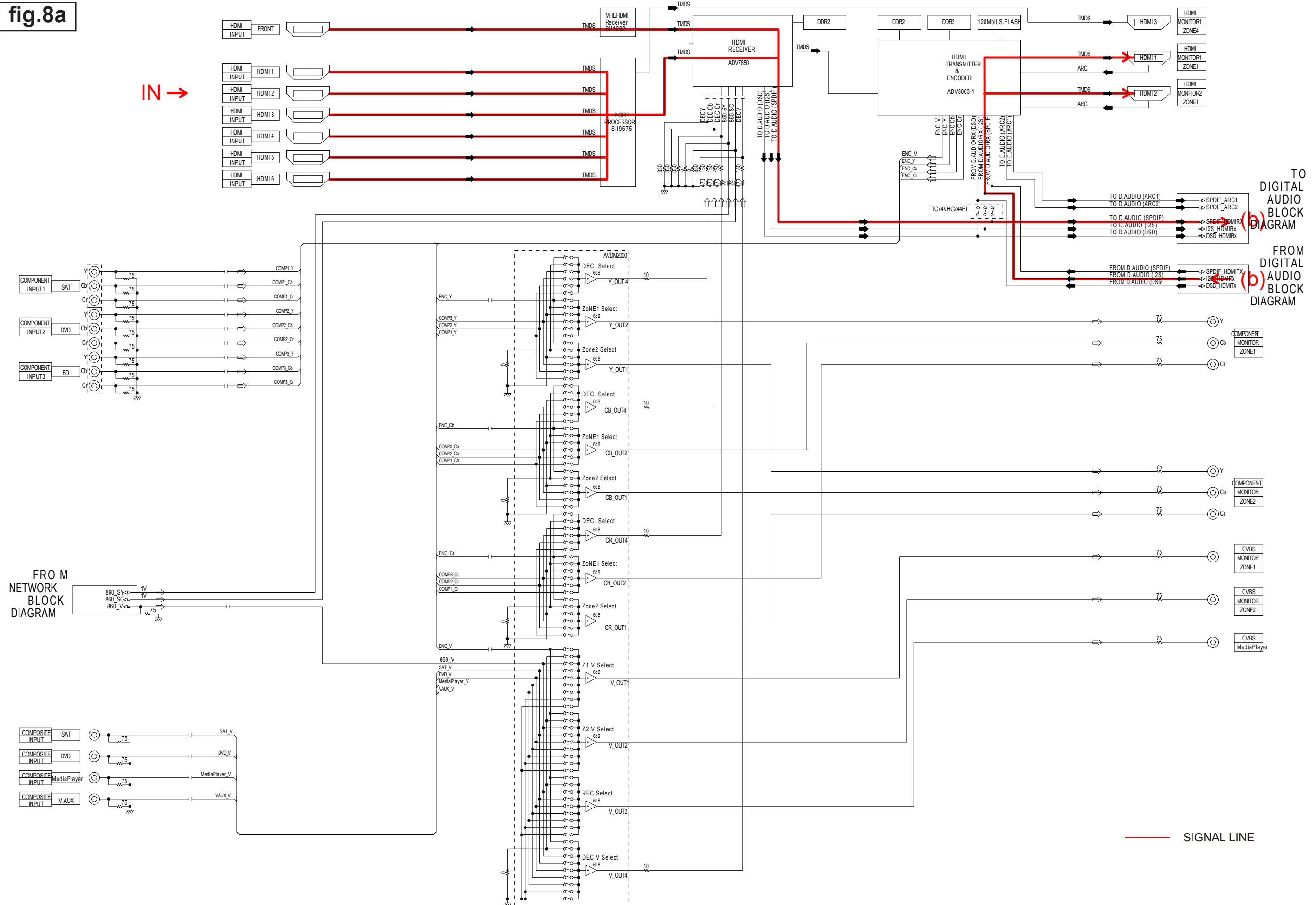


fig.8b

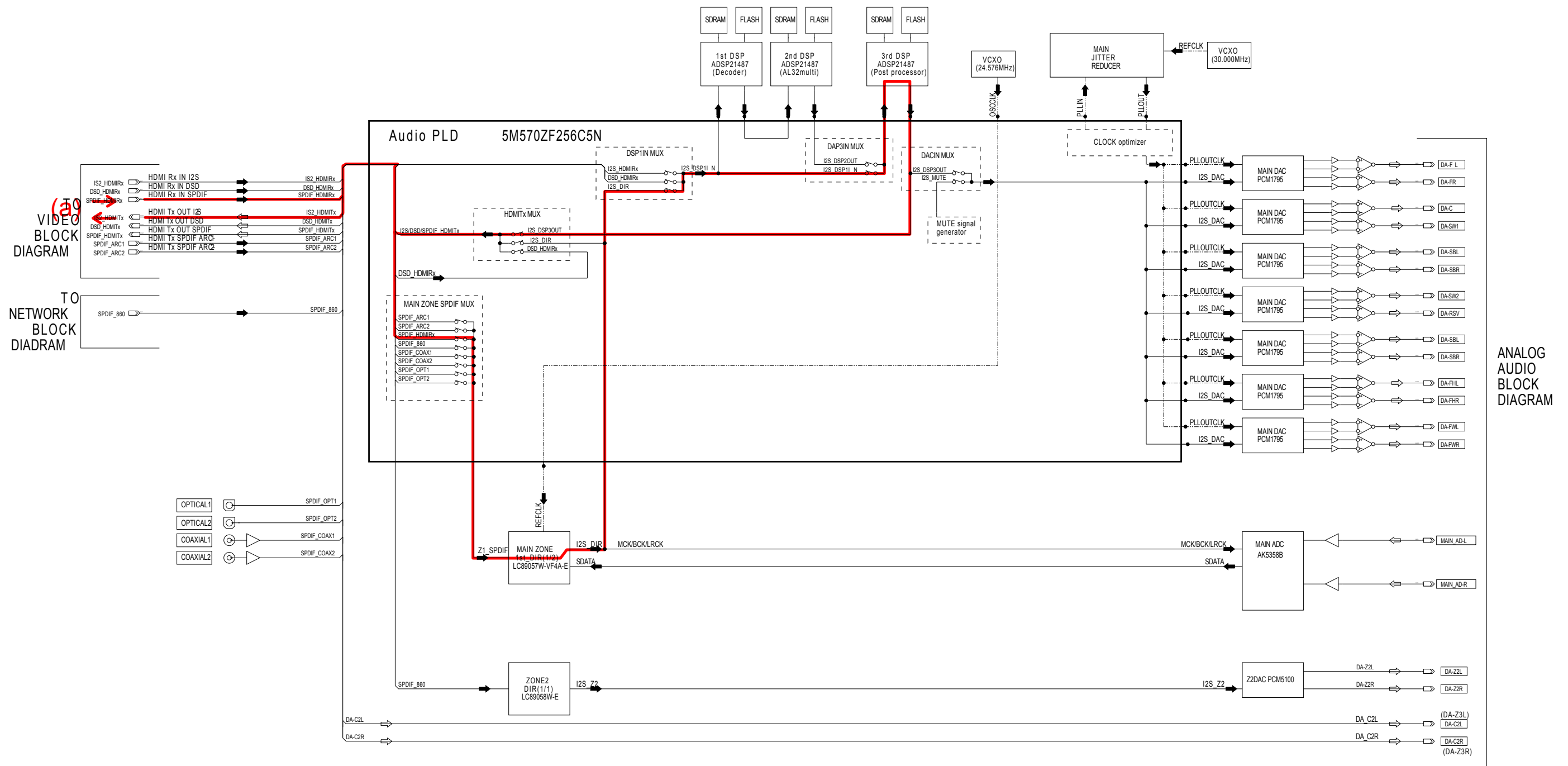
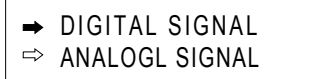


fig.9

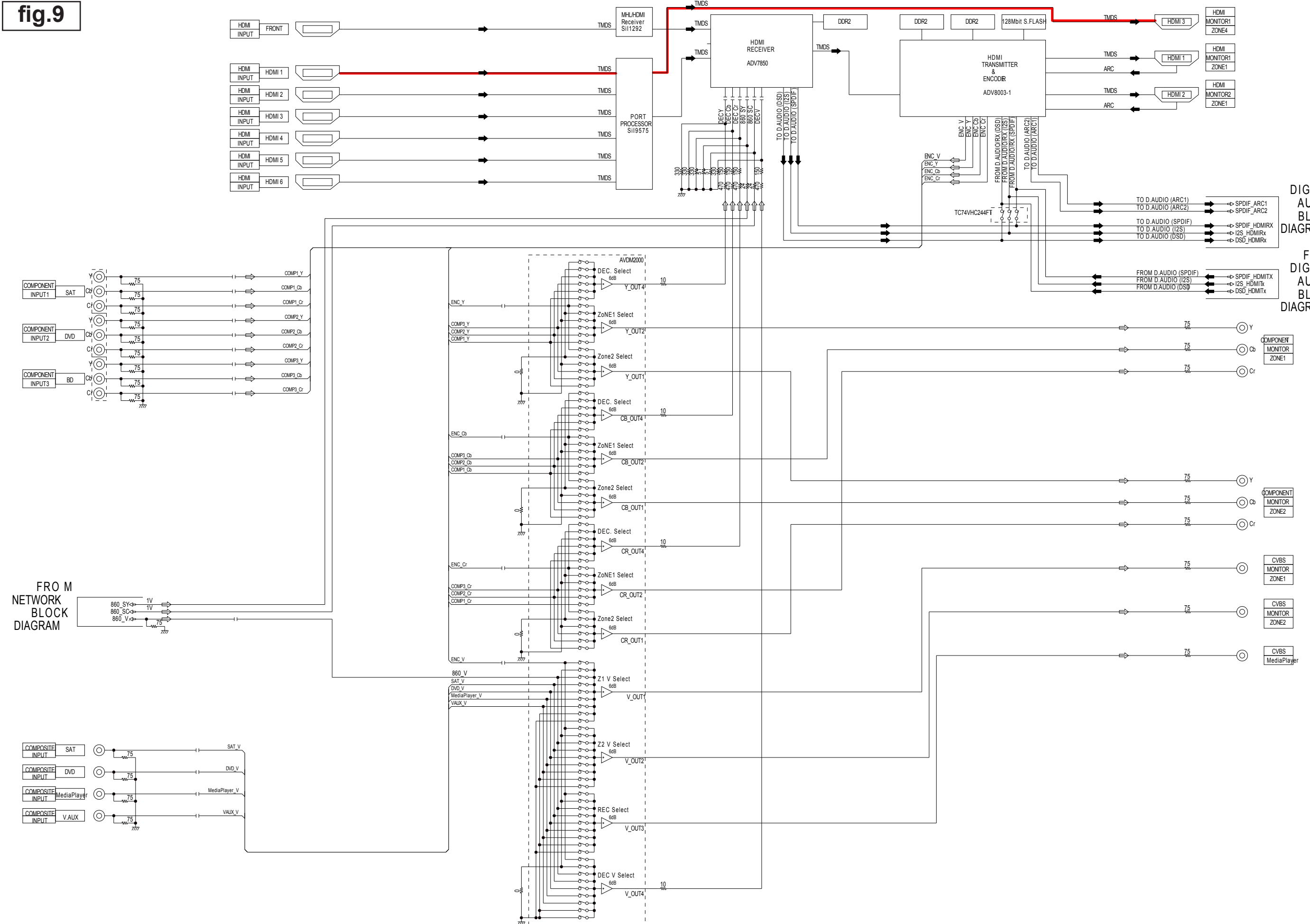


fig.10

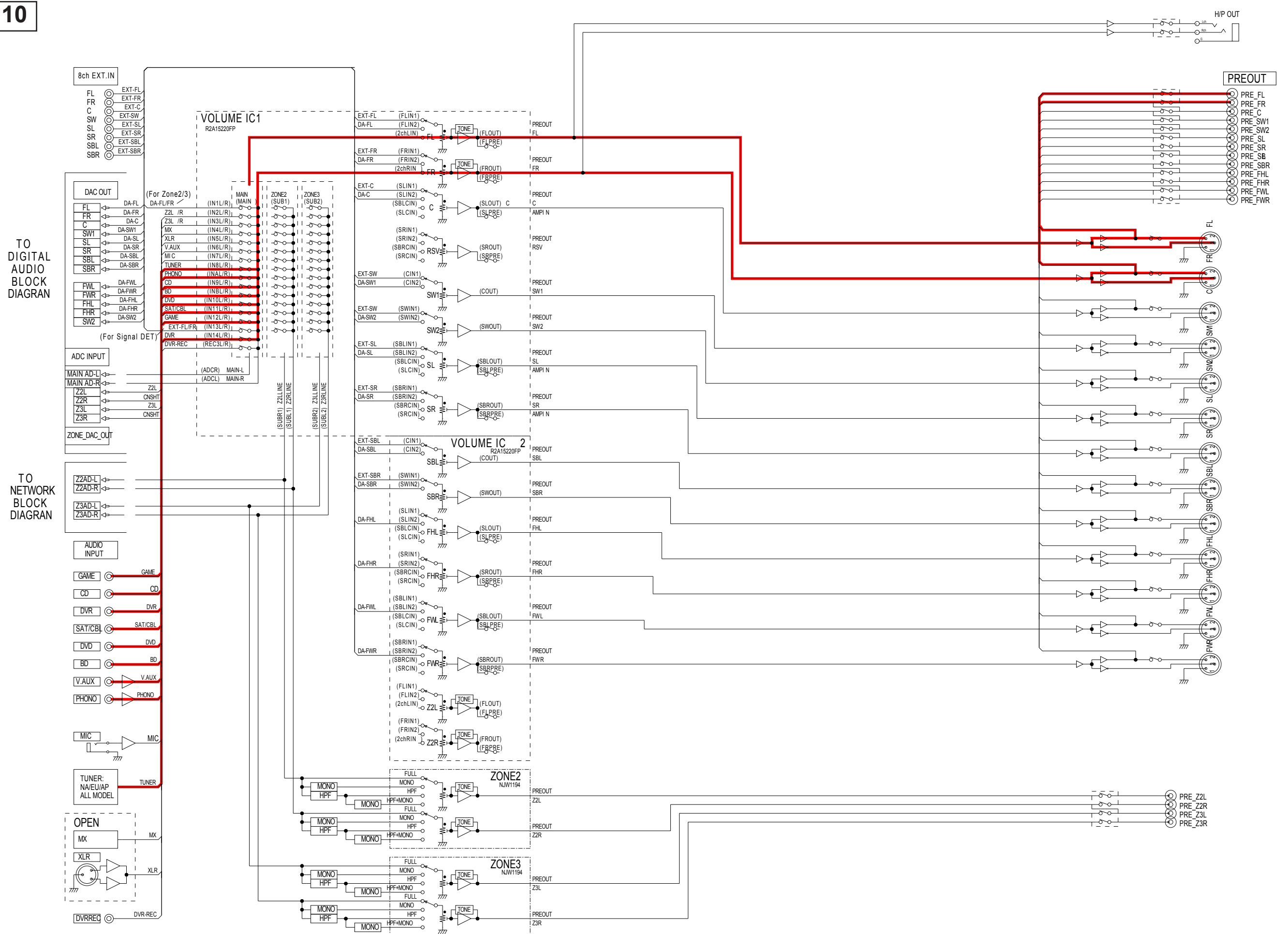


fig.11a

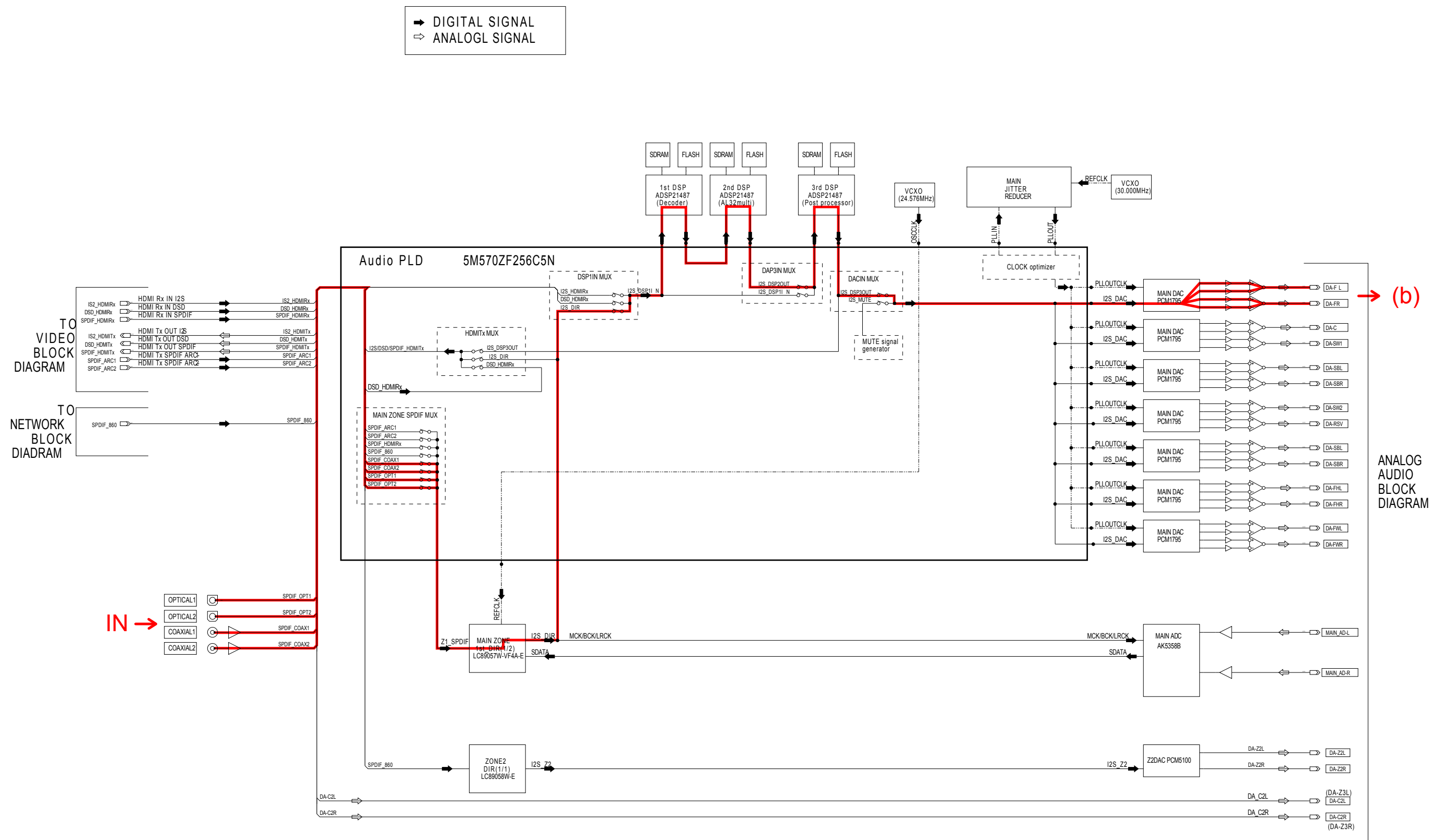


fig.11b

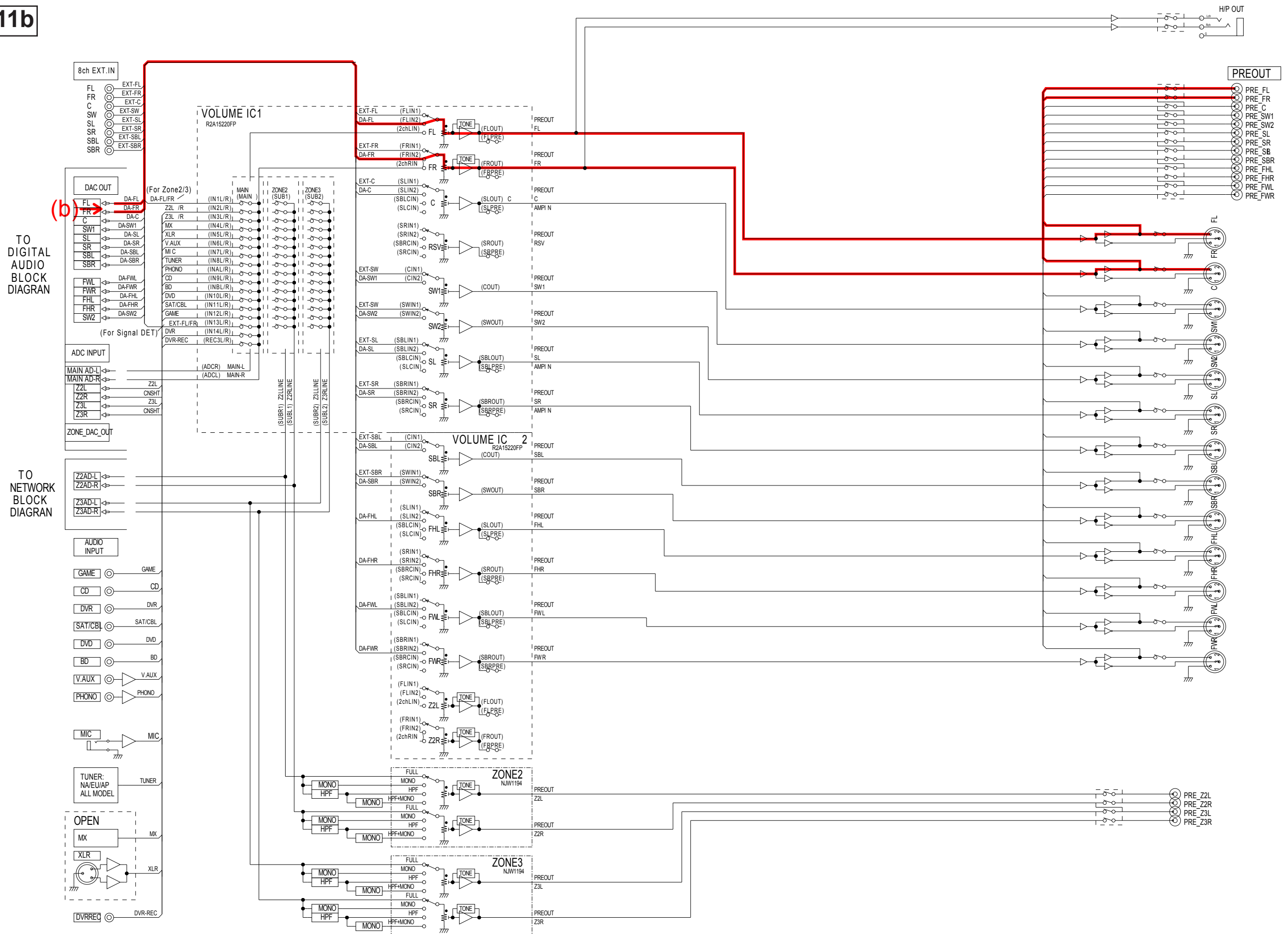


fig.12a

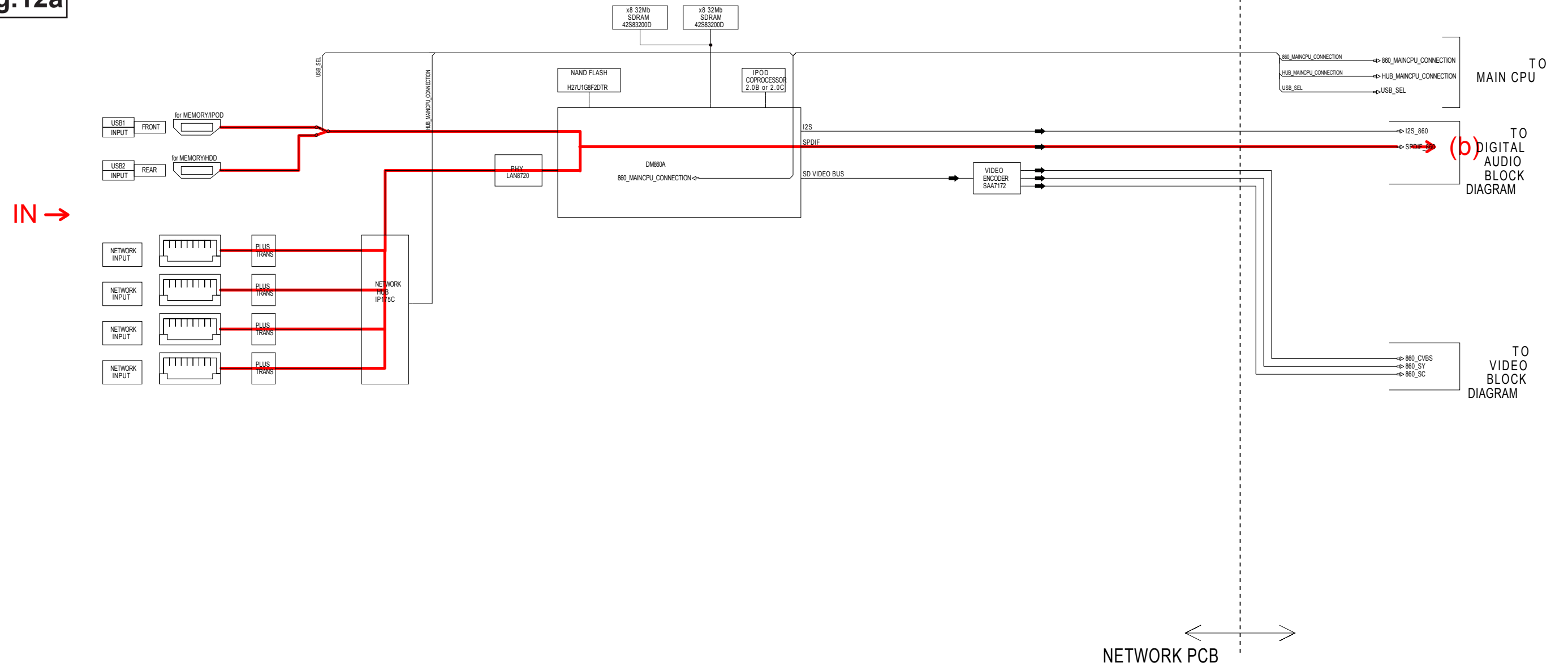


fig.12b

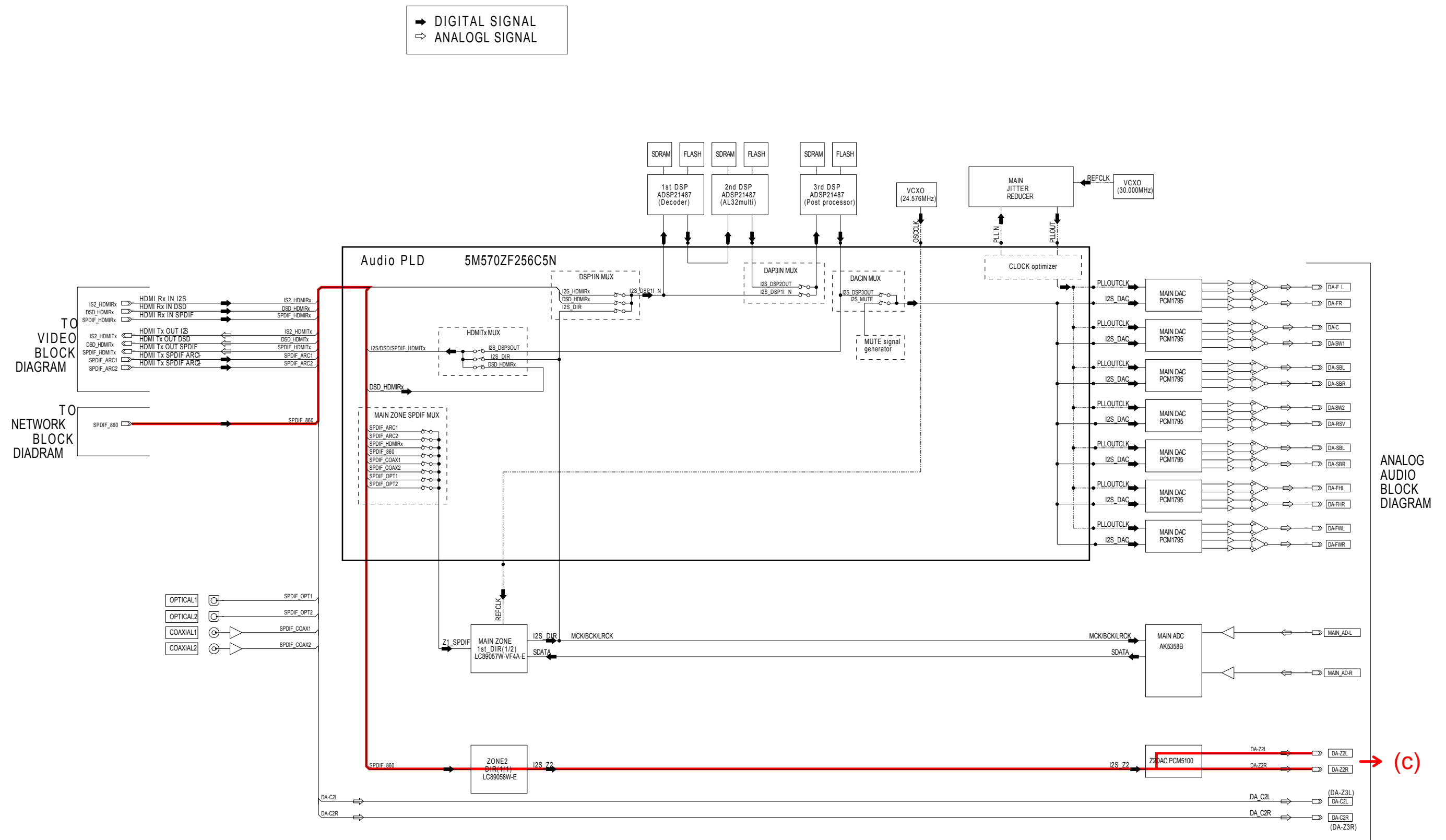


fig.12c

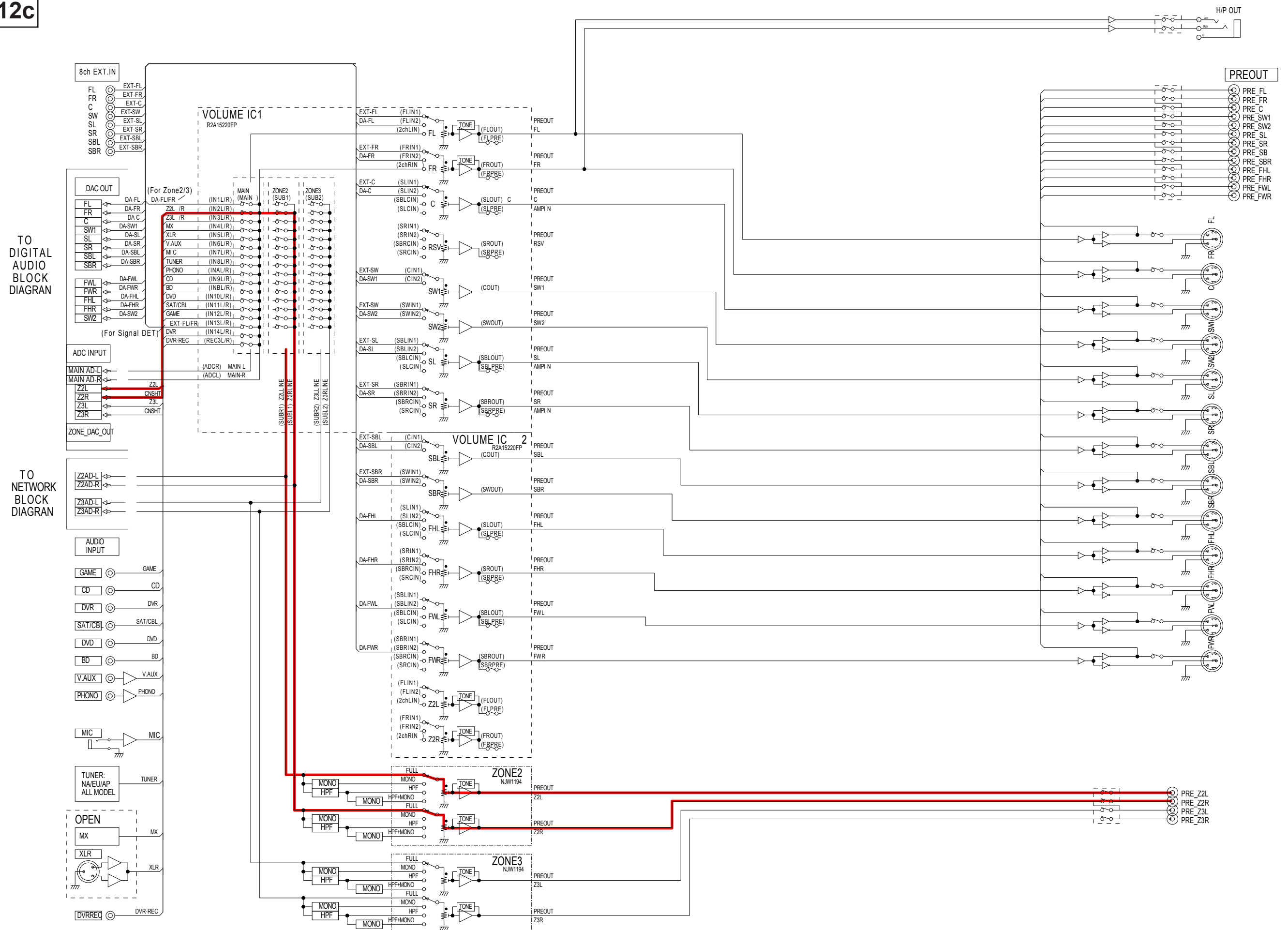


fig.13a

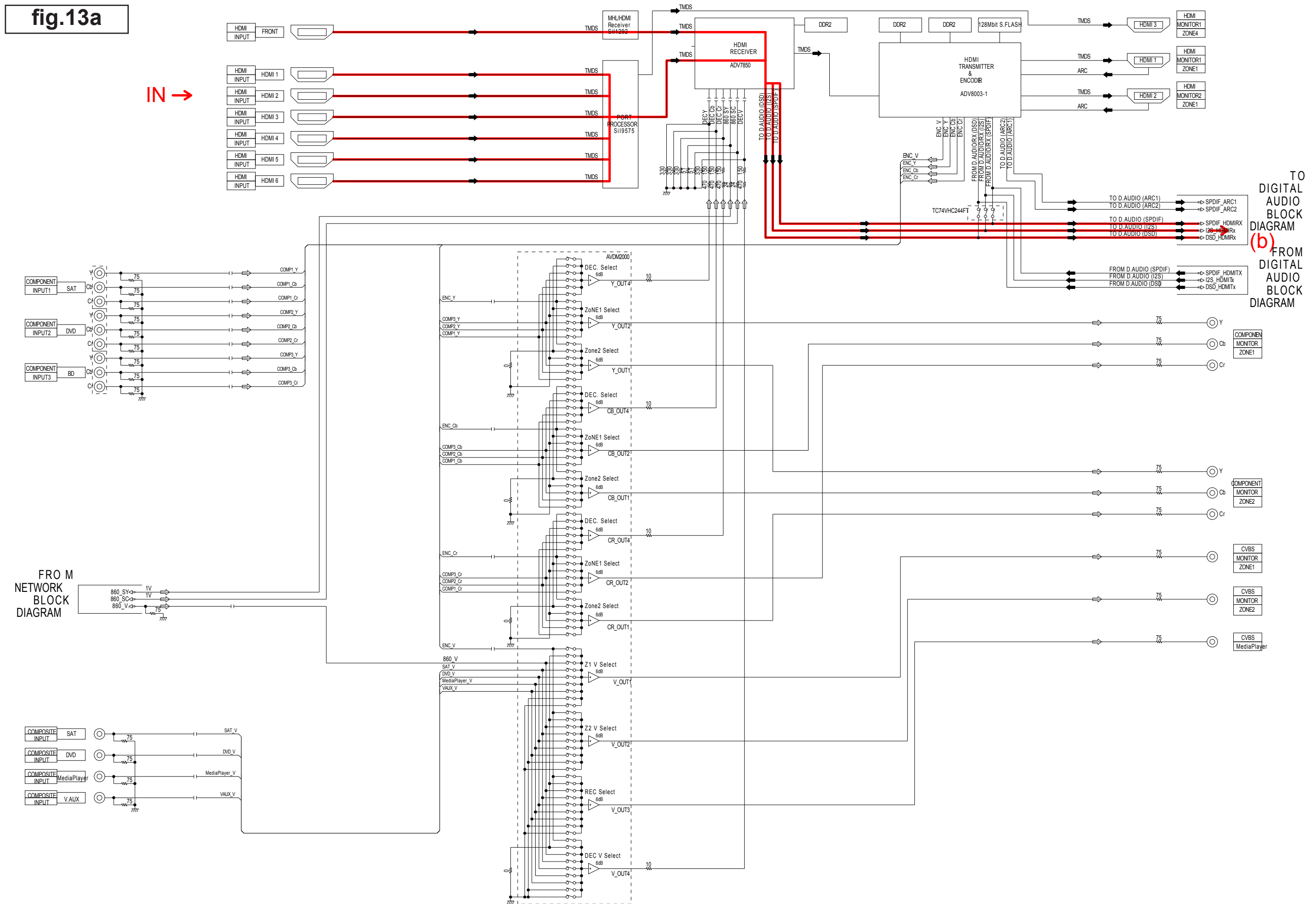


fig.13b

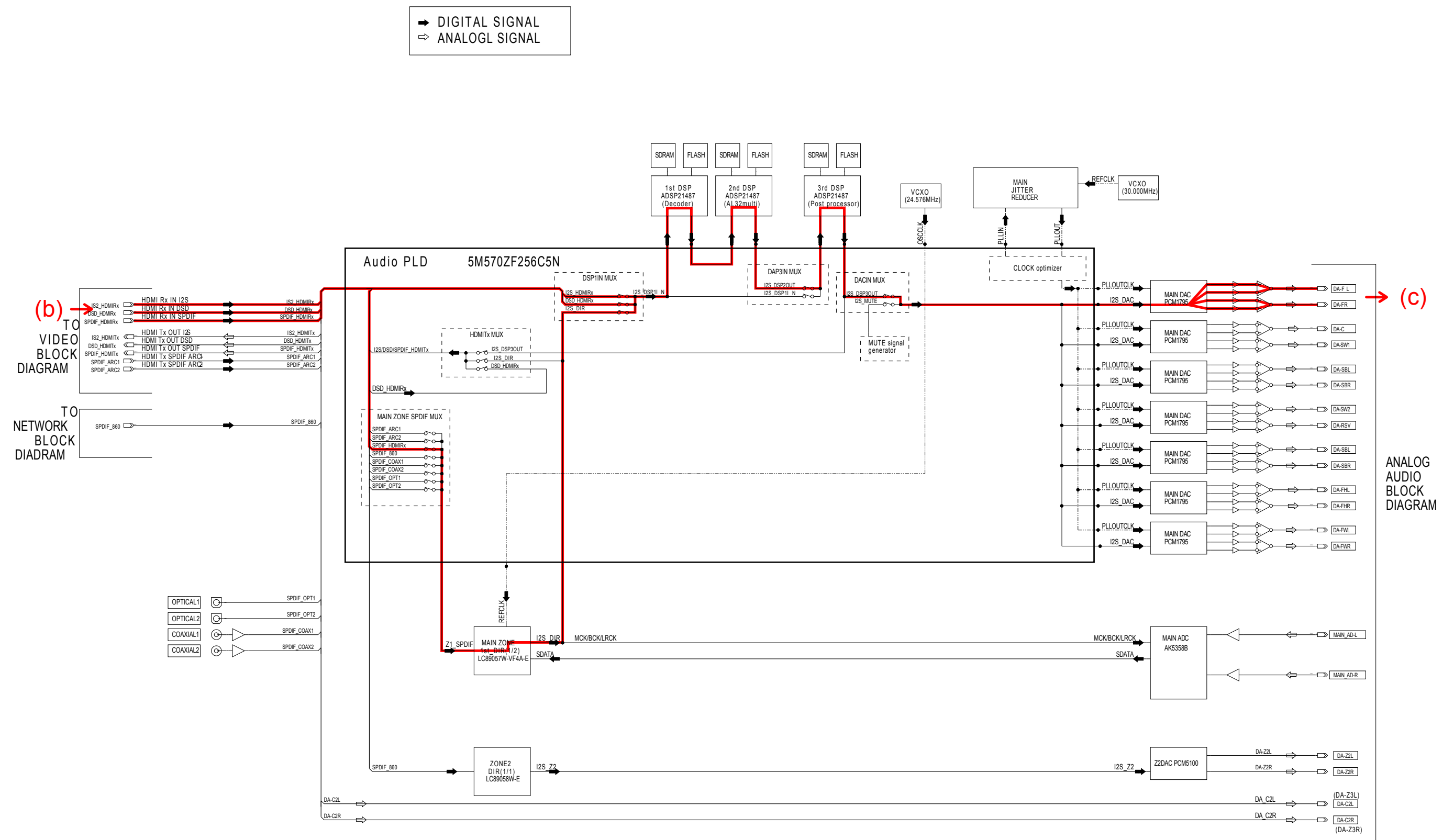


fig.13c

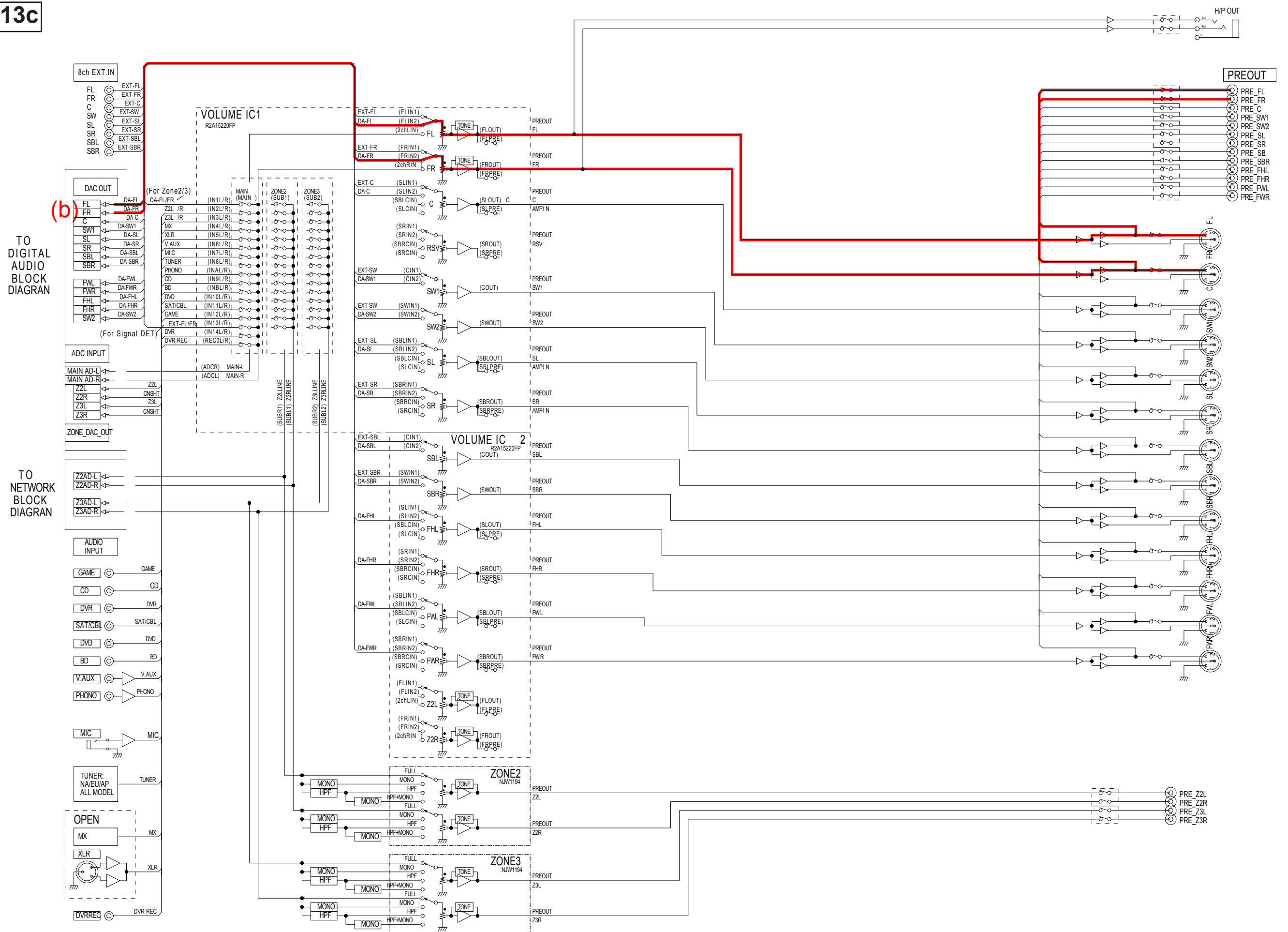


fig.14a

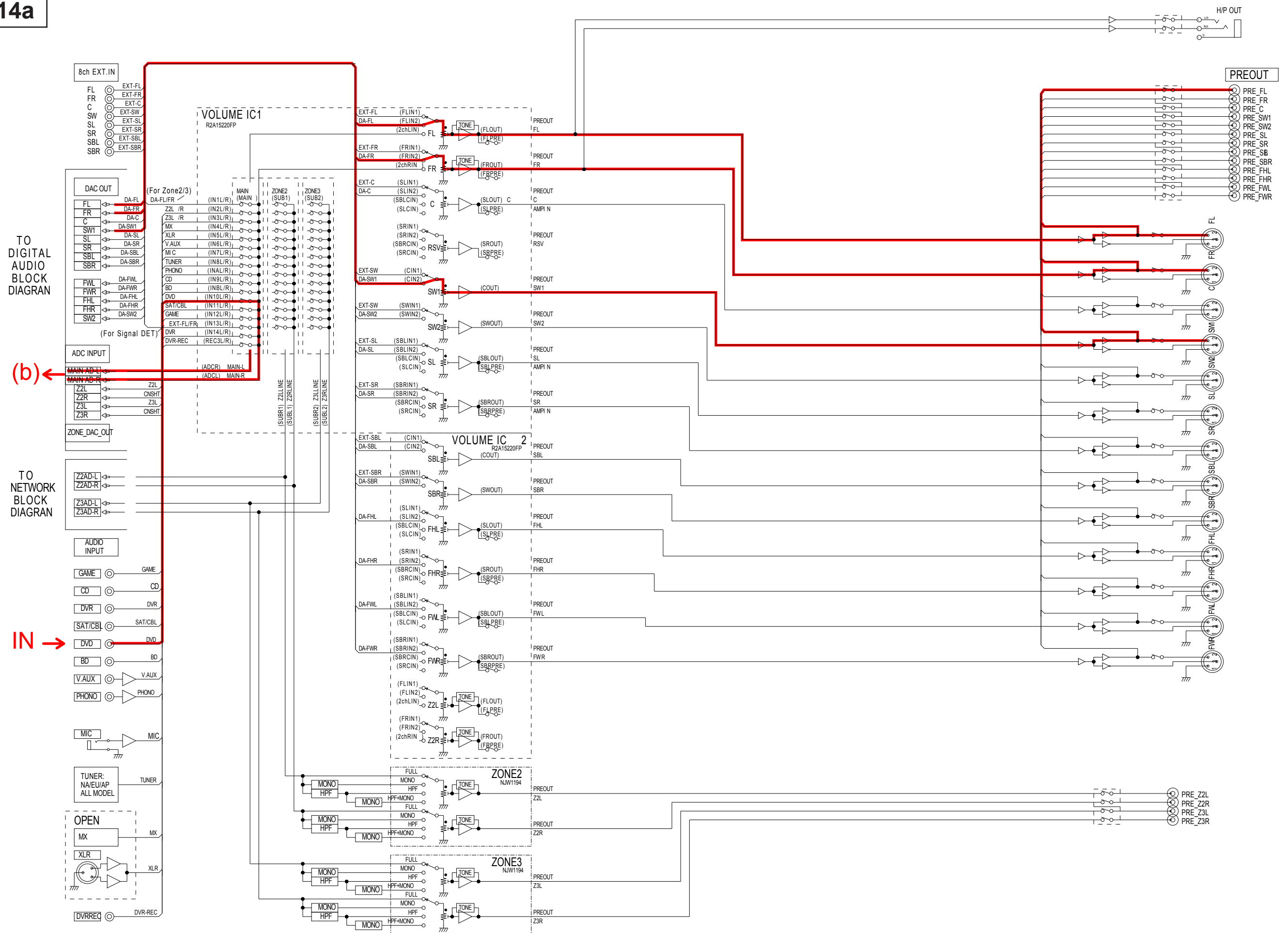


fig.14b

➡ DIGITAL SIGNAL
➡ ANALOG SIGNAL

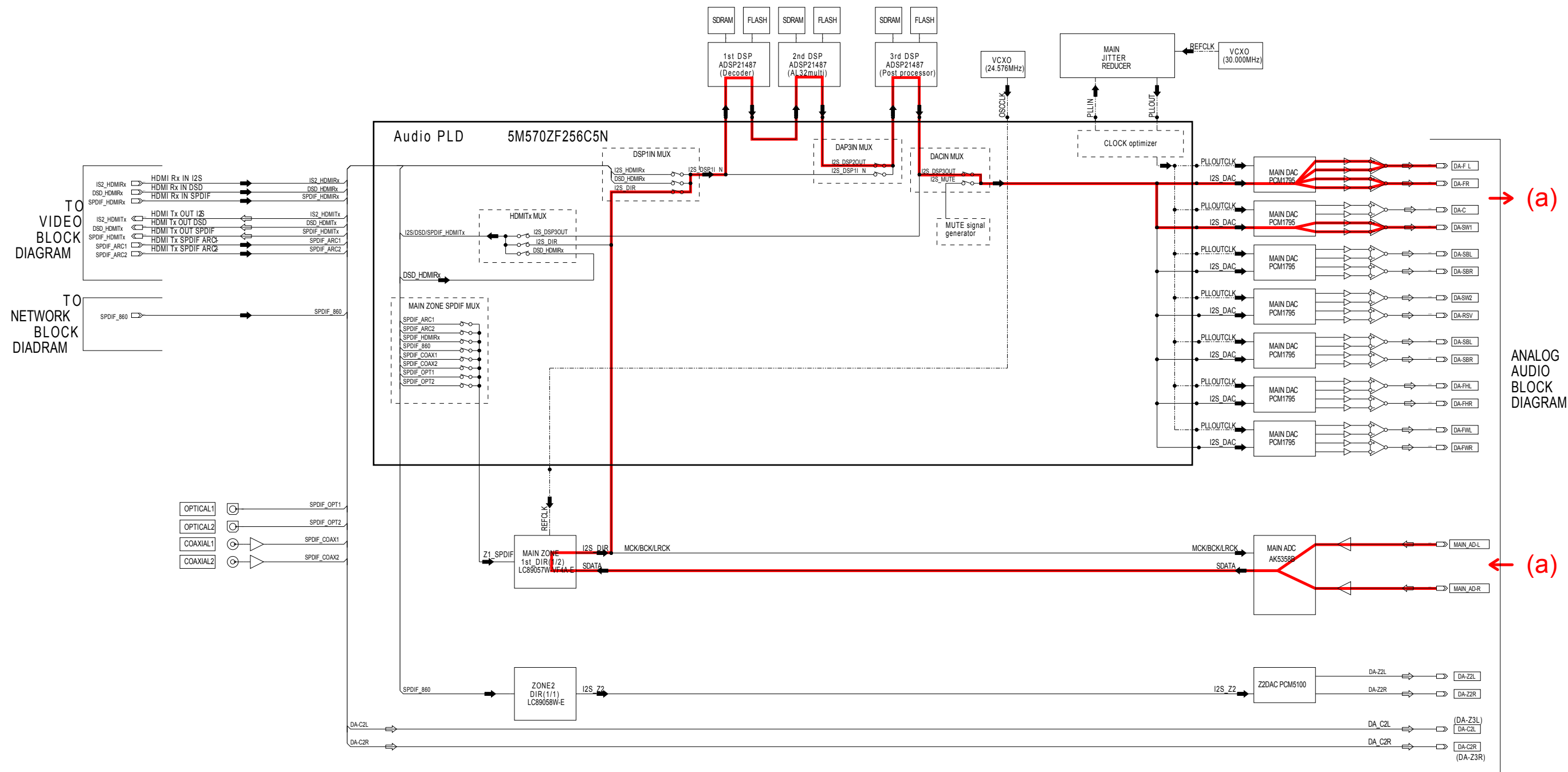


fig.15

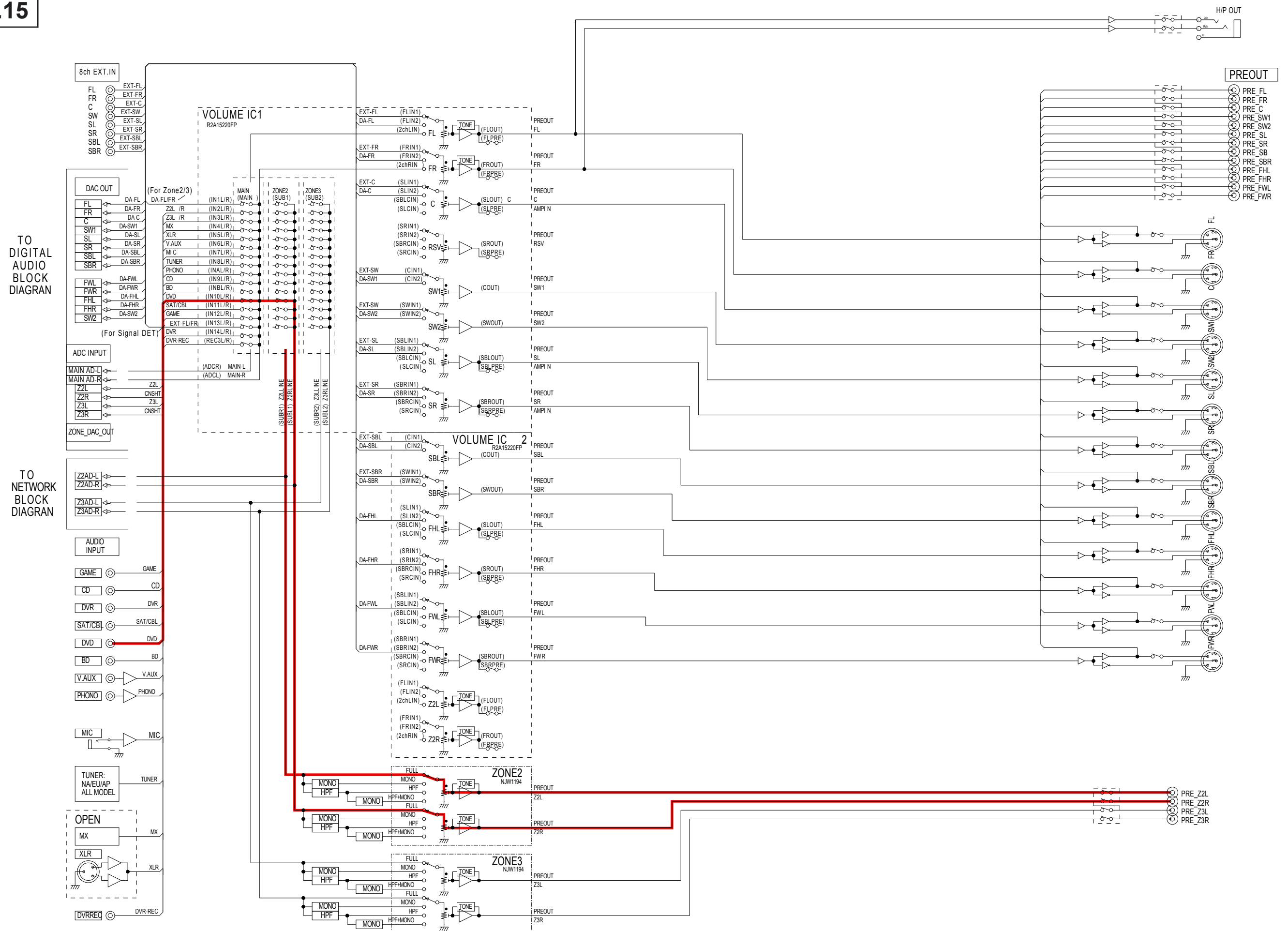


fig.16

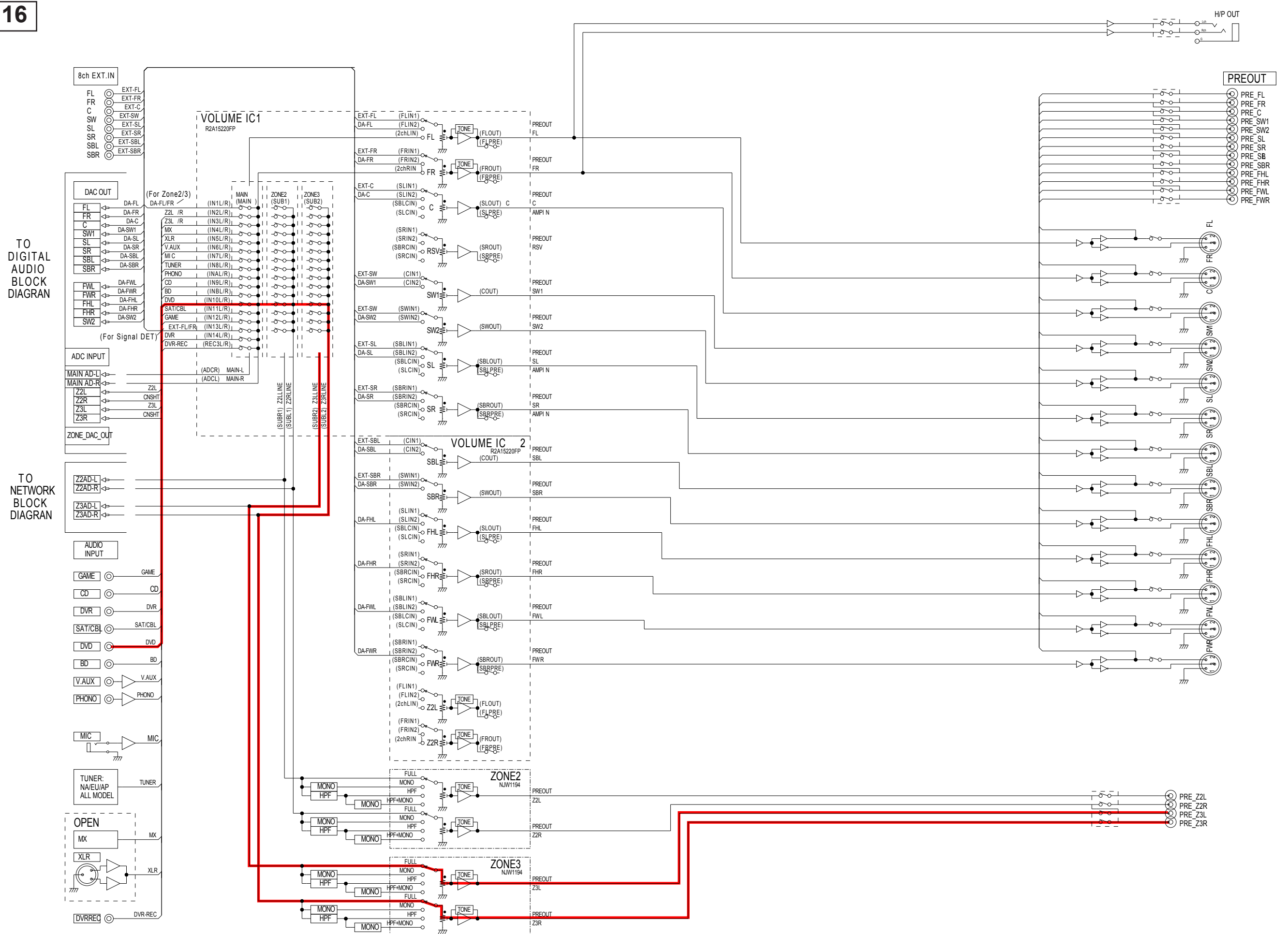
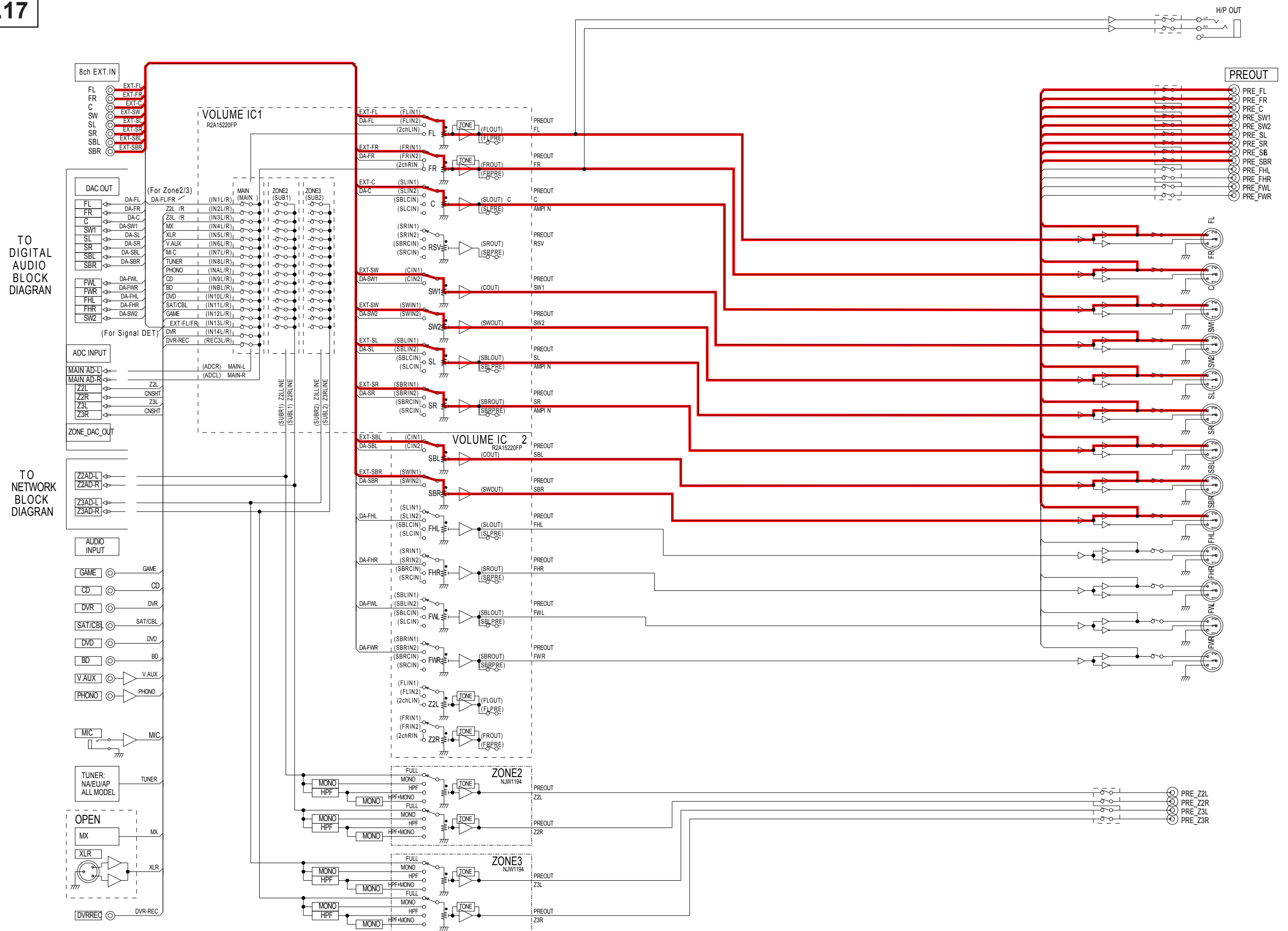


fig.17



3.5. 232C standby clear mode

3.5.1. Specifications

This switches the 232C standby mode to the Normal standby mode.

3.5.2. Starting up

Press the "ENTER" button while the following is displayed to switch to the Normal standby mode.

Upper		2	.	P	R	O	T	E	C	T	I	O	N			
Lower	▶	3	.	R	S	2	3	2	C		R	E	S	E	T	

3.6. Operation Info mode

3.6.1. Specifications

This mode displays the accumulated operating time, power on count, counts for each protection on the set.

3.6.2. About the display on the FL display

When the set has started in the Operation Info mode, press the "STATUS" button to display information in the following order.

(a) Accumulated operating time

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Upper	O	P	e	r	a	t	i	o	n		T	i	n	e		
Lower		T	o	t	a	l	:								H	

↓ "STATUS"
↑ Time display

(b) Power on count

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Upper	P	o	w	e	r		O	n		T	i	n	e			
Lower		T	o	t	a	l	:									

↓ "STATUS"
↑ Count display

(Returns to normal display)

4. Additional Source mode

4.1. Specifications

- The Additional Source setting is added for the custom installer. When the setting is "ON", AUX3-7 is added as a Source.
It is possible to add the number of Sources for use by assigning various input connectors in Input Assign Menu.
- The added AUX3-7 is displayed and available for selection in the Source related settings such as Input Setup in Setup Menu.
- The default setting is "OFF".

4.2. Operation

- Press the "(⏻) ON/STANDBY" button while pressing "BACK" and "CURSOR ▼" buttons on the set to turn the power on.
- After the POWER ON sequence, FLD displays the indication for the Additional Source mode.
- Press the "Cursor ◀"/"Cursor ▶" buttons to select the setting.

ON ↔ OFF

Upper	*	A	d	d		S	o	u	r	c	e		M	o	d	e
Lower				<		O	F	F					>			

- ON is selected

Lower				<			O	N					>			
-------	--	--	--	---	--	--	---	---	--	--	--	--	---	--	--	--

- OFF is selected

Lower				<			O	F	F				>			
-------	--	--	--	---	--	--	---	---	---	--	--	--	---	--	--	--

- Press the "ENTER" button to confirm the setting.

5. DM860A Reboot mode

5.1. Specifications

- When DM860A is hung up, DM860A is restarted.
Even when Network standby is set (Setup Menu - Network - Network - Always ON), DM860A can be reset.

5.2. Operation

- Turn on MAIN ZONE button, and select NETWORK for the input source.
- Press and hold the "DISPLAY" and "BACK" buttons for 3 seconds and longer.
- DM860A is restarted and returns to the normal display.

FL display while DM860A is being restarted

Upper	N	e	t	w	o	r	k		R	e	s	t	a	r	t	
Lower																

NOTE:

The same operation cannot be accepted for one minute after the last 860 Reboot.

6. DM860A Initialization mode

6.1. Specifications

- After replacing Nand Flash for DM860A and writing the firmware, initialize DH860A.
Also initialize DH860A after writing a firmware for a destination other than the one described for DM860A.

6.2. Operation

1. Turn on MAIN ZONE button, and select NETWORK for the input source.
2. Press and hold the "BACK" and "ENTER" buttons for 3 seconds and longer.
3. DM860A is initialized and returns to the normal display.

FL display while DM860A is initialized

Upper	I	n	i	t	i	a	l	i	z	i	n	g	.	.	.	
Lower																



Upper				C	o	m	p	l	e	t	e	d				
Lower																

NOTE:
If the initialization fails, "Failed" is displayed. Repeat the same procedure. If it fails again, disconnect and connect the AC cord and then repeat the same procedure.

7. DUAL BACKUP MEMORY

This product has a Dual Backup Memory function. The conventional Backup functions to memorize, in the EEPROM (IC202) in the circuit, a current setting of the moment the main power is turned off so that it can be restored when it is turned ON again. Meanwhile, the DUAL BACKUP MEMORY is capable of memorizing any arbitrary setting that is configured while the product is in operation so as to restore it at any time. When servicing units returned from end-users for repairs, use this function to back up the current setting (e.g. Tuner Preset). This will enable the units to be returned to the users after repairs, with the setting unchanged.

NOTE: If end-users use this function, the data will be overwritten.

The contents of the memory do not disappear even if you initialize this unit.

If you want to erase, please refer to **7.2. SERVICE PRECAUTIONS**.

7.1. HOW TO OPERATE

-Backup-

- (1) Configure a setting you would like to save in the MEMORY and hold down the "ZONE SELECT" and "DISPLAY" buttons on the Front Panel at the same time for 3 seconds or more.

- (2) The FL Display indicates "MEMORY SAVING" while the Recovery is being performed.

FLD			M	E	M	O	R	Y		S	A	V	I	N	G		
-----	--	--	---	---	---	---	---	---	--	---	---	---	---	---	---	--	--

- (3) The FL Display indicates "COMPLETE" when the Backup is completed.

FLD						C	O	M	P	L	E	T	E				
-----	--	--	--	--	--	---	---	---	---	---	---	---	---	--	--	--	--

-Recovery-

- (1) Hold down the "SETUP" and "ZONE SELECT" buttons at the same time for 3 seconds or more.

- (2) The FL Display indicates "MEMORY LOAD" while the Backup is being performed.

FLD			M	E	M	O	R	Y		L	O	A	D				
-----	--	--	---	---	---	---	---	---	--	---	---	---	---	--	--	--	--

- (3) After the FL Display indicates "COMPLETE", the product goes into Standby mode. When the power is restored, the Recovery is completed.

FLD						C	O	M	P	L	E	T	E				
-----	--	--	--	--	--	---	---	---	---	---	---	---	---	--	--	--	--

The FL Display indicates "NO BACKUP" if the DUAL BACKUP MEMORY has not been activated with no data to be recovered saved in the Memory.

FLD					N	O		B	A	C	K	U	P				
-----	--	--	--	--	---	---	--	---	---	---	---	---	---	--	--	--	--

7.2. SERVICE PRECAUTIONS

When the Flash Rom (IC202) on the HDMI PWB is replaced make sure, in order to maintain consistency with the Backup Memory, to clear the DUAL BACKUP MEMORY in the following way :

-How to clear the Backup Memory-

- (1) Hold down the "ZONE SELECT" and "ENTER" buttons at the same time for 3 seconds or more.

- (2) The FL Display indicates "BACKUP CLEAR" while the memory is being cleared.

FLD				B	A	C	K	U	P		C	L	E	A	R		
-----	--	--	--	---	---	---	---	---	---	--	---	---	---	---	---	--	--

- (3) After the FL Display indicates "COMPLETE", the operation is completed.

FLD						C	O	M	P	L	E	T	E				
-----	--	--	--	--	--	---	---	---	---	---	---	---	---	--	--	--	--

JIG FOR SERVICING

When you repair the printing board, you can use the following JIG (Extension cable kit).
Please order to Official Service. Distributor in your region if necessary.

Note: When the connection which is wrong in the JIG (EXTENSION UNIT KIT) is done it becomes cause of damage.

8U-110084S : EXTENSION UNIT KIT

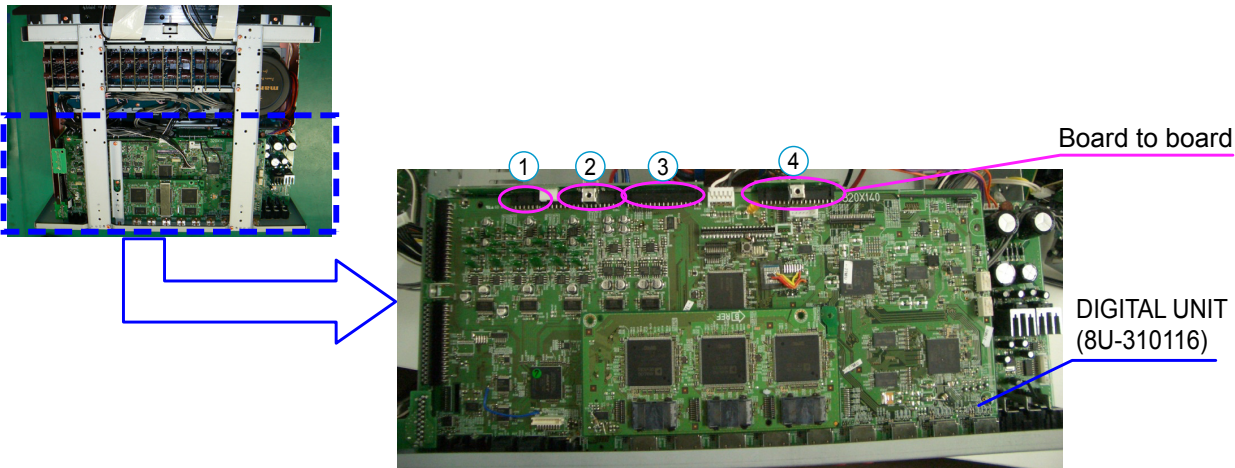
• **Connection of PCB HDMI JIG**

-Preparation-

- 8U-110084S : EXTENSION UNIT KIT : 1 Set
- Insulation sheet (Do not supply it) : 3 sheet
- Ground lead (Do not supply it) : 1 pcs

-Procedures-

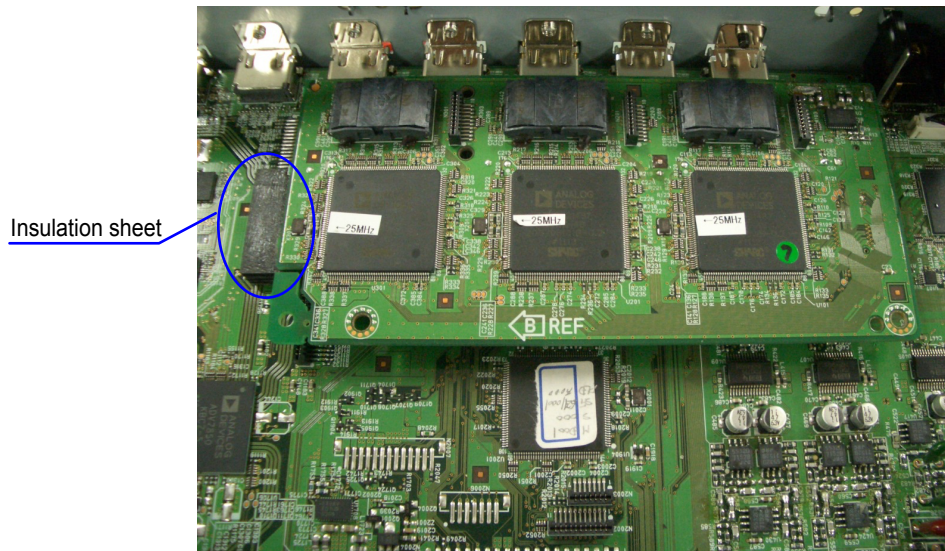
(1) Disconnect the connector board.



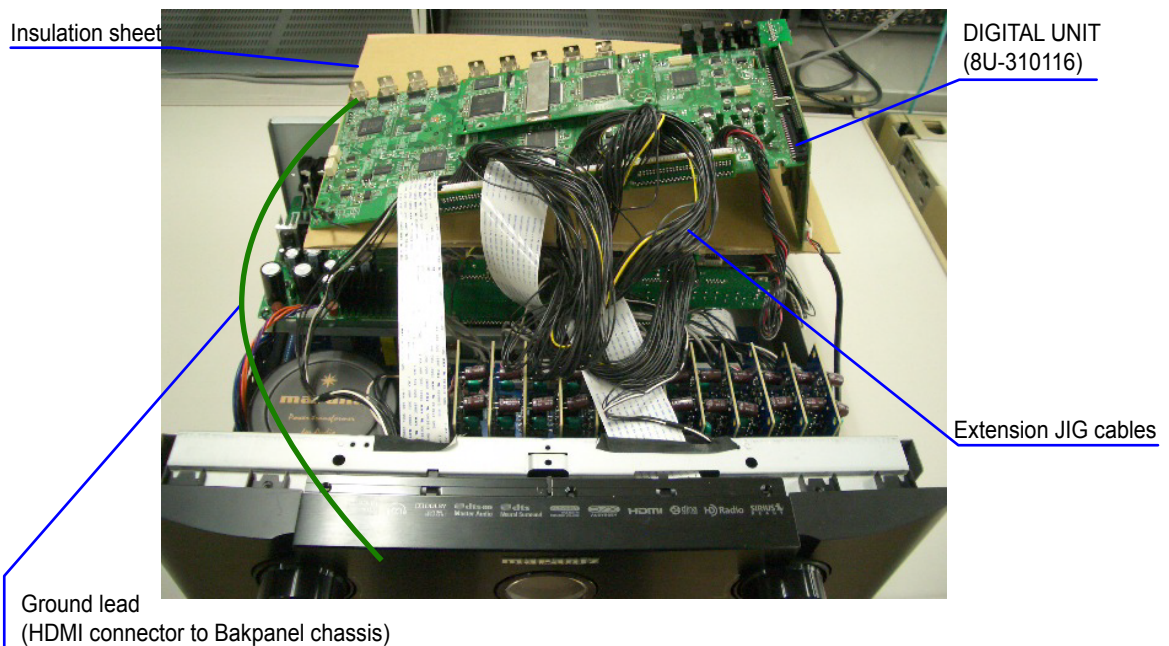
Connection table of Board to Board

No.	Pin	Ref. No.	PCB		Ref. No.	PCB
①	11pin	N4001	FRONT CNT	↔	N1803	HDMI
②	33pin	N4002	FRONT CNT	↔	N1804	HDMI
③	33pin	N4003	FRONT CNT	↔	N1805	HDMI
④	33pin	N4004	FRONT CNT	↔	N1806	HDMI

- (2) When DSP STAY is removed, put some shock absorbing material there so that the DSP board (8U-310115) does not come in contact with the digital board (8U-310116). To verify the element under the DSP board through an oscilloscope, etc., remove the DSP board, pull out the lead, and reinstall the DSP board before verification.
When the set is turned on without installing the DSP board, the SUB microcomputer does not function properly.



- (3) PCB HDMI is detached from the chassis, and it puts it into the state turned inside out. Please pave an insulation sheet that is larger than PCB HDMI under PCB. Connect the ground point of PCB to the chassis with a ground lead or the like. Connect the four extension jig cables.



WHEN THE MICROPROCESSOR IS REPLACED WITH A NEW ONE

When the U-PRO (Microprocessor) or the Flash ROM is replaced, confirm the following.

PWB Name	Ref. No.	Description	After replaced	Remark
HDMI	U2001	R5F56108VNFP	B	SOFTWARE: Main
HDMI	U2101	R5F3650KNFB	B	SOFTWARE: Sub
DSP	U101	MX29LV160DBTI-70G	B	SOFTWARE: DSP1 ROM
DSP	U201	MX29LV160DBTI-70G	B	SOFTWARE: DSP2 ROM
DSP	U301	MX29LV160DBTI-70G	B	SOFTWARE: DSP3 ROM
HDMI	U301	5M570ZF256C5N	D	SOFTWARE: Audio PLD
HDMI	U1404	MX25L12835E	B	SOFTWARE: Video GUI ROM
NETWORK	U504	H27U1G8F2BTR-BC	C	SOFTWARE: NETWORK

After replacing

A : Mask ROM (With software). No need for write-in of software to the microprocessor.

B : Flash ROM (With software). Usually, no need for write-in of software. But, when the software was updated, you should write the new software on the microprocessor or flash ROM. Please check the software version.

C : After replacing Nand Flash, always update the software. After the update is completed, initialize DM860A. (24 page)

D : Empty Flash ROM (Without software). You should write the software on the microprocessor or flash ROM.

Refer to "Update procedure" or "writing procedure", when you write the software.

PROCEDURE FOR UPDATING THE VERSION OF THE FIRMWARE

You can update the firmware by downloading the latest version from the Internet.

1. How to update by DFW

1.1. Preparations before starting the operation

(1) Personal Computer (Installed "DFW_0018_AV8801_(Rev.x.x.x).exe".

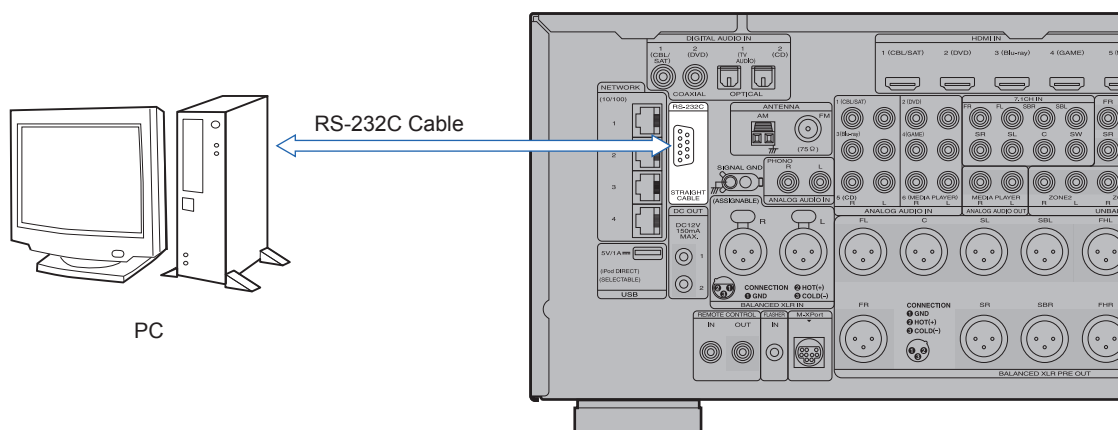
(2) RS-232C cable (9P (Male), Straight).

NOTE : Refer to "The Operating Manual for updating of maratnz A/V receiver/amplifier".

1.2. Connection of AV receiver

(1) Confirm the power on/off switch of the AV receiver is turning off.

(2) Connect the RS-232C cable from PC with the "RS232C Terminal of AV receiver firmware".



1.3. Turn on the AV receiver

Turn on the AV receiver. When the board is replaced, the Flash ROM is replaced, or rewriting fails, always complete the following steps to force the update.

Forced Update Mode :

(1) Connect the power cable to the AC outlet while simultaneously pushing the "MOVIE" and "M-DAX" button of the front panel.

(2) Confirm the power indicator is red.

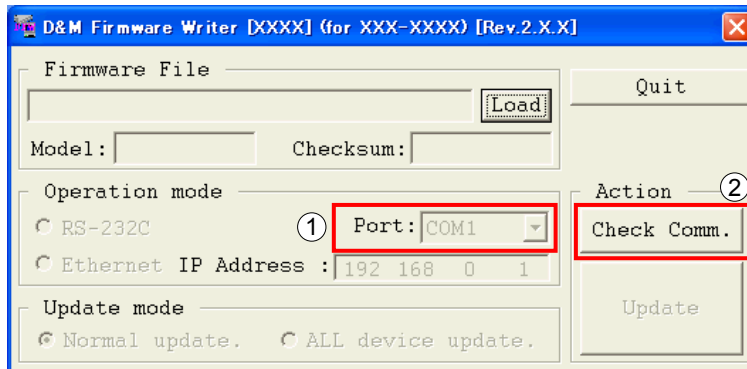
1.4. Run the DFW

Run the "DFW_0018_AV8801_(Rev.x.x.x).exe" on desktop of PC.



1.5. Communication check

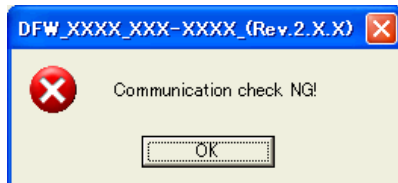
- (1) Select the serial port number of RS-232C in PC.
- (2) Click the "Check Comm." button.



- (3) When connection is good, then you can see the "Communication check OK." message.



- (4) If connection is not good, then you can see the "Communication check NG" message.

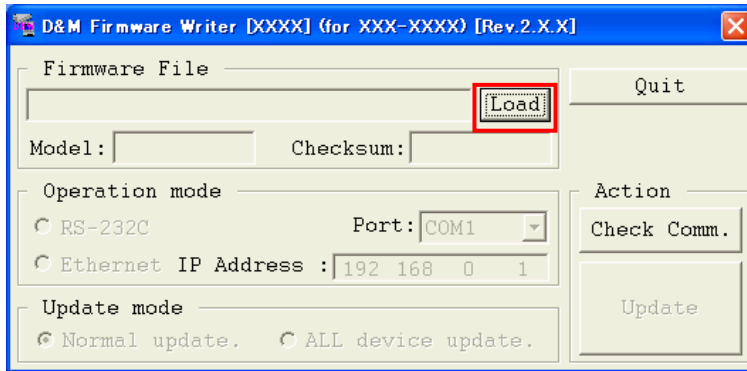


Please confirm the following

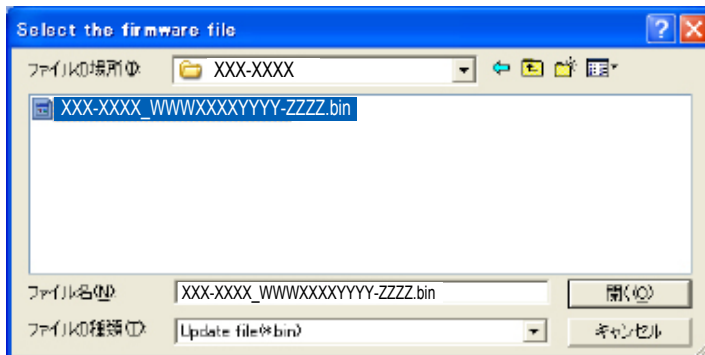
- (a) Check the connection of the AV receiver and PC. (refer to "1.2. Connection of the AV receiver")
- (b) Check the operation mode of the AV receiver. (refer to "1.3.Turn on the AV receiver")
- (c) Check the selection of the RS-232C port number of PC.

1.6. Download the firmware

(1) Click the "Load" button.

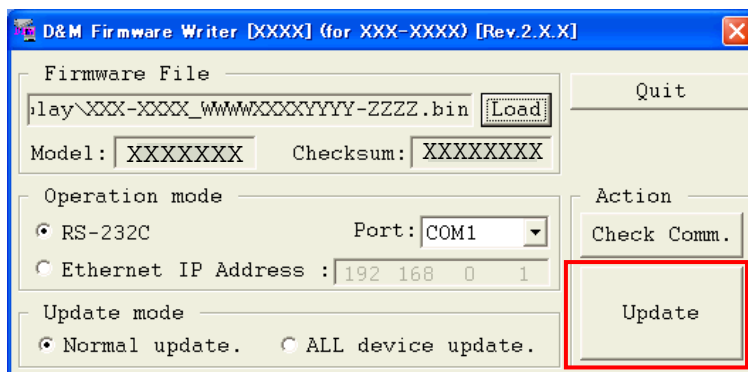


(2) Download the firmware from the specified download source to PC.

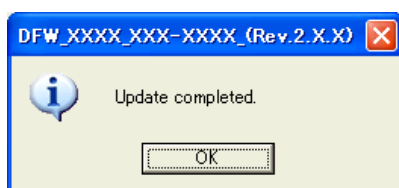


1.7. Complete the firmware updating

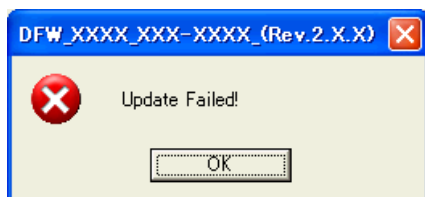
- (1) Click the "Update" button.



- (2) When writing of the firmware is completed, the power of AV receiver turns on automatically and you can see the "Update completed" message.



- (3) If you can't complete the firmware update, please retry the firmware update from "1.3. Turn on the AV receiver" (Forced Update Mode).



1.8. Notice:

Please keep the following notice for firmware update.

- (a) Keep the PC environment
- (b) Avoid the communication cable from the electrical noise source.
(e.g. telephone cable, AC line, a fluorescent light)
- (c) Don't remove cable during update.
- (d) Don't turn off the power during update.
- (e) Don't run other PC application during update.
- (f) Stop the resident program on PC (Virus checker and System check utility, etc.)
- (g) Stop the screen saver on PC.
- (h) Stop the power save ability on PC.
- (i) In case of laptop PC, Use the AC adaptor.

Confirming the firmware's number after upgraded

After updating the firmware, check the version. Refer to "1. μ com/DSP Version display mode" (25 page).

2. How to update by DPMS

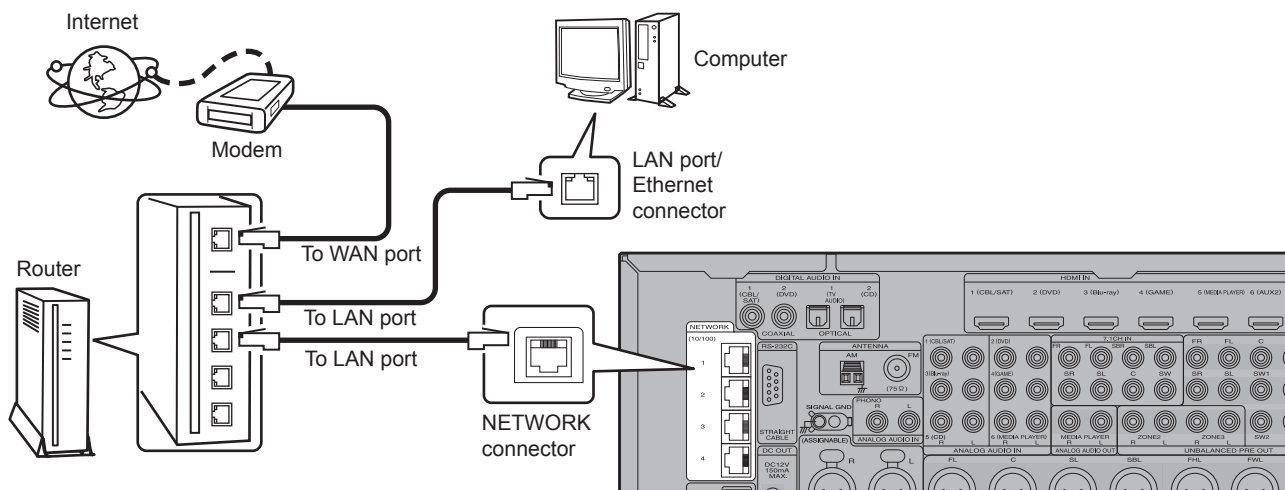
You can update the firmware by downloading the latest version from the Internet.

2.1. Connecting to the Network

(1) System requirements

- Internet Connection by Broadband Circuit
- Modem
- Router
- Ethernet cable (CAT-5 or greater recommended)

(2) Setting



2.2. Checking and updating the firmware

Check if the latest firmware exists. You can also check approximately time required to complete an update.

- (1) Press the "SETUP" button on the remote control to display the GUI menu.
- (2) Use the cursor buttons to select "GENERAL" → "FIRMWARE" → "Update" → "Check For Update".
- (3) Press the "ENTER" button.
 - The latest version of the firmware on the website is displayed.
 - If the firmware on the website is latest, proceed to (4).
 - If the latest firmware has been already installed, press the "SETUP" button to close the menu.
- (4) Use the cursor buttons to select "Update", then press the "ENTER" button.
 - During update, the power indicator lights in red and the GUI screen disappears. And an approximately remaining time is indicated on the display.
 - When updating is complete the power indicator lights in green and normal status is resumed.

--- Cautions on Firmware Update ---

- In order to update the firmware, you must have the correct system requirements and settings for a broadband Internet connection.
 - Do not turn off the power until updating is completed.
- Even with a broadband connection to the Internet, approximately 1 hour is required for the updating procedure to be completed.

Once updating starts, normal operations on the AV8801 cannot be performed until updating is completed. Also, setting items of the GUI menu of AV8801 or setting items of the image adjustment may be initialized.

Note down the settings before updating, and set them again after updating.

2.3. About the error code

See the table below for error codes, details of faults, and coping strategies when the firmware is updated through DPMS

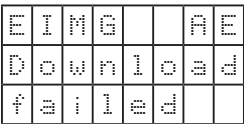
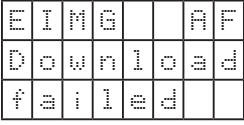
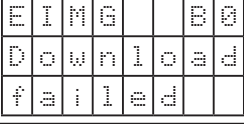
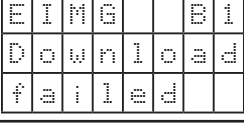
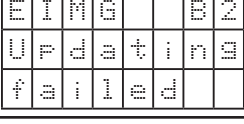
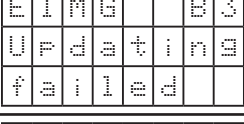
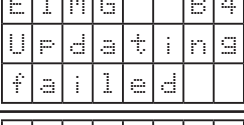
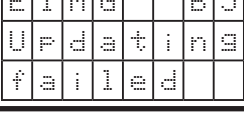
Error Code	Details of Error code	Display	Coping strategies
01	Log-in to DPMS has failed.	Login failed 01	Reset and update again. Carry out the update in an environment that has little network load.
02	Line, etc., is busy when logging into DPMS.	Server is busy 02	Carry out the update in an environment that has little network load.
03	Connection to DPMS failed.	Connection fail 03	Check the network connection. Carry out the update in an environment that has little network load.
04	Failed to obtain entire Firmware information.	Connection fail 04	Check the network connection. Carry out the update in an environment that has little network load.
05	TimeOut while obtaining entire Firmware information.	Connection fail 05	Check the network connection. Carry out the update in an environment that has little network load.
06	Failed to obtain individual Firmware information.	Connection fail 06	Check the network connection. Carry out the update in an environment that has little network load.
07	TimeOut while obtaining entire Firmware information.	Connection fail 07	Check the network connection. Carry out the update in an environment that has little network load.
08	Firmware file data of Main CPU was requested but error message was received.	Connection fail 08	Check the network connection. Carry out the update in an environment that has little network load.
09	Firmware file data of Main CPU was requested but it timed out.	Connection fail 09	Check the network connection. Carry out the update in an environment that has little network load.
0A	Error (NG) message was received when firmware of Main CPU was downloaded.	Download fail 0A	Check the network connection. Carry out the update in an environment that has little network load.
0B	Error (line congestion) message was received when firmware of Main CPU was downloaded.	Download fail 0B	Check the network connection. Carry out the update in an environment that has little network load.
0C	Error (connection failure) message was received when firmware of Main CPU was downloaded.	Download fail 0C	Check the network connection. Carry out the update in an environment that has little network load.
0D	Received Package Version is wrong.	Connection fail 0D	Check the network connection. Carry out the update in an environment that has little network load.
0E	Connection to DPMS failed. (can not get NTP)	Connection fail 0E	Check the network connection. Carry out the update in an environment that has little network load.
10	Main CPU failed to receive firmware for rewriting sent from DM860A (when timed out).	Main 10 Updating failed	Turn off and on the power. Updating starts automatically.

Error Code	Details of Error code	Display	Coping strategies
11	Main CPU failed to receive firmware for rewriting sent from DM860A (when an error occurred)	Main 11 Updating failed	Turn off and on the power. Updating starts automatically.
12	There was invalid data in the firmware for rewriting sent from DM860A to Main CPU (when a Check Sum error occurred).	Main 12 Updating failed	Turn off and on the power. Updating starts automatically.
13	The deletion of block data failed before Main CPU was rewritten.	Main 13 Erase failed	Turn off and on the power. Updating starts automatically.
14	The rewriting of block data failed when Main CPU was rewritten.	Main 14 Updating failed	Turn off and on the power. Updating starts automatically.
15	The data verification was invalid after Main CPU was rewritten.	Main 15 Update CHECKNG	Turn off and on the power. Updating starts automatically.
20	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860A (AutoIP).	Connection fail 1 20	Check the network connection. Carry out the update in an environment that has little network load.
21	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860A (when timed out).	Connection fail 1 21	Check the network connection. Carry out the update in an environment that has little network load.
22	Log-in to DPMS failed.	Login failed 22	Reset and update again. Carry out the update in an environment that has little network load.
23	Line, etc., is busy when logging into DPMS.	Server is busy 23	Carry out the update in an environment that has little network load.
24	Connection to DPMS failed.	Connection fail 1 24	Check the network connection. Carry out the update in an environment that has little network load.
25	Mode change failure of DM860A.	Connection fail 1 25	Reset and update again.
26	Data acquisition failed (timed out) when firmware of Main CPU was downloaded. Received Package Version is wrong.	Download fail 26	Check the network connection. Carry out the update in an environment that has little network load.
27	Mode change failure of DM860A.	Connection fail 1 27	Reset and update again.
36	Log-in to DPMS failed when Main CPU was rewritten.	Main 36 Login failed	Carry out the update in an environment that has little network load.
37	Line, etc., is busy when logging into DPMS when Main CPU was rewritten.	Main 37 Server is busy	Carry out the update in an environment that has little network load.

Error Code	Details of Error code	Display	Coping strategies
38	Connection to DPMS failed when Main CPU was rewritten.	Main CPU 38 Connect failed	Check the network connection. Carry out the update in an environment that has little network load.
39	Connection to DPMS timed out when Main CPU was rewritten.	Main CPU 39 Connect failed	Check the network connection. Carry out the update in an environment that has little network load.
3A	Error (NG) message was received when firmware was downloaded or Main CPU was rewritten.	Main CPU 3A Download failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
3B	Error (line congestion) message received when firmware was downloaded or Main CPU was rewritten.	Main CPU 3B Download failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
3C	Error (connection failure) message received when firmware was downloaded or Main CPU was rewritten.	Main CPU 3C Download failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
3D	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860A (AutoIP).	Main CPU 3D Connect failed	Check the network connection. Carry out the update in an environment that has little network load.
3E	Failure to acquire (Boot Loader Mode) IP address before rewriting DM860A (when timed out).	Main CPU 3E Connect failed	Check the network connection. Carry out the update in an environment that has little network load
3F	Mode change failure of DM860A.	Main CPU 3F Connect failed	Reset and update again.
50	Log-in to DPMS failed when firmware such as Sub CPU, DSP, GUI and PLD was rewritten.	Sub CPU 50 Log in failed	Carry out the update in an environment that has little network load.
51	Line, etc., is busy when log-in into DPMS when firmware such as Sub CPU, DSP, GUI and PLD was rewritten.	Sub CPU 51 Server is busy	Carry out the update in an environment that has little network load.
52	Connection to DPMS failed when firmware such as Sub CPU, DSP, GUI and PLD was rewritten.	Sub CPU 52 Connect failed	Check the network connection. Carry out the update in an environment that has little network load.
54	Error message received regarding firmware data after the log-in to DPMS when firmware such as Sub CPU, DSP, GUI and PLD was rewritten.	Sub CPU 54 Updating failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
55	When firmware such as Sub CPU, DSP, GUI and PLD request was made for firmware data after the log-in to DPMS, but it timed out was rewritten.	Sub CPU 55 Updating failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.

Error Code	Details of Error code	Display	Coping strategies
56	Downloading firmware failed after the log-in to DPMS when firmware such as Sub CPU, DSP, GUI and PLD was rewritten.	Sub 56 Downloaded failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
57	Firmware download error received (line congestion) after the log-in to DPMS when rewriting firmware such as Sub CPU, DSP, GUI and PLD was rewritten.	Sub 57 Downloaded failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
58	Firmware download error was received (connection failure) after the log-in to DPMS when firmware such as Sub CPU, DSP, GUI and PLD was rewritten.	Sub 58 Downloaded failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
5A	NACK was received when "C" command sent to Sub CPU, DSP, GUI.	Sub 5A Connect failed	Turn off and on the power. Updating starts automatically.
5B	NACK was received when "L" command sent to Sub CPU, DSP, PLD etc.	Sub 5B Updating failed	Turn off and on the power. Updating starts automatically.
5C	Sub CPU, DSP, PLD etc. failed to receive firmware for rewriting sent from DM860A (when timed out).	Sub 5C Updating failed	Turn off and on the power. Updating starts automatically.
5D	Sub CPU, DSP, PLD etc. failed to receive firmware for rewriting sent from DM860A (when an error occurred).	Sub 5D Updating failed	Turn off and on the power. Updating starts automatically.
5E	Data in firmware such as Sub CPU, DSP and PLD for rewriting sent from DM860A was invalid (when a Check Sum error occurred).	Sub 5E Updating failed	Turn off and on the power. Updating starts automatically.
5F	Invalid data in firmware such as Sub CPU, DSP and PLD for rewriting sent from DM860A was invalid (invalid data was received).	Sub 5F Updating failed	Turn off and on the power. Updating starts automatically.
60	NACK was received when "P" command sent to Sub CPU, DSP, PLD etc.	Sub 60 Updating failed	Turn off and on the power. Updating starts automatically.
61	NACK was received when "I" command sent to Sub CPU, DSP, PLD etc.	Sub 61 Update Checking	Turn off and on the power. Updating starts automatically.
62	Start of Sub μ -com fail.	Sub 62 Updating failed	Turn off and on the power. Updating starts automatically.
80	Acquisition of serial flash data failed before serial flash was deleted.	GUI 80 Updating failed	Turn off and on the power. Updating starts automatically.

Error Code	Details of Error code	Display	Coping strategies
81	Deleting data failed before serial flash was rewritten.	GUI 81 Updating failed	Turn off and on the power. Updating starts automatically.
82	Receiving firmware for rewriting serial flash sent by DM860A failed (when timed out).	GUI 82 Updating failed	Turn off and on the power. Updating starts automatically.
83	Receiving firmware for rewriting serial flash sent by DM860A failed (when an error).	GUI 83 Updating failed	Turn off and on the power. Updating starts automatically.
84	Receiving firmware for rewriting serial flash sent by DM860A failed (when a Check Sum error).	GUI 84 Updating failed	Turn off and on the power. Updating starts automatically.
85	Receiving firmware for rewriting serial flash sent by DM860A failed (when invalid data was received).	GUI 85 Updating failed	Turn off and on the power. Updating starts automatically.
86	The data verification was invalid after serial flash was rewritten.	GUI 86 Updating failed	Turn off and on the power. Updating starts automatically.
A0	Acquisition of (Application Mode) IP address failed before rewriting DM860A was rewritten (AutoIP).	ETIMEG A0 Connect failed	Check the network connection. Carry out the update in an environment that has little network load.
A1	Acquisition of (Application Mode) IP address failed before rewriting DM860A was rewritten (when timed out).	ETIMEG A1 Connect failed	Check the network connection. Carry out the update in an environment that has little network load.
A2	Invalid login via DPMS access was notified DM860A related firmware was rewritten (Application Mode).	ETIMEG A2 Login failed	Check the network connection. Carry out the update in an environment that has little network load.
A3	Line congestion via DPMS access was notified DM860A related firmware was rewritten (Application Mode).	ETIMEG A3 Server is busy	Check the network connection. Carry out the update in an environment that has little network load.
A4	Connection failure via DPMS access was notified DM860A related firmware was rewritten (Application Mode).	ETIMEG A4 Connect failed	Check the network connection. Carry out the update in an environment that has little network load.
A6	Firmware data error message was received after DPMS login when DM860A related firmware was rewritten (Application Mode).	ETIMEG A6 Updating failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
A7	When DM860A related firmware was rewritten (Application Mode), request was made for firmware data after DPMS login but it timed out.	ETIMEG A7 Updating failed	Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.

Error Code	Details of Error code	Display	Coping strategies
AE	Firmware download error message received (when download fails) when DM860A related firmware was rewritten (Boot Loader Mode).		Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
AF	Firmware download error message received (line congestion) when DM860A related firmware was rewritten (Boot Loader Mode).		Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
B0	Firmware download error message received (connection failure) when DM860A related firmware was rewritten (Boot Loader Mode).		Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
B1	Firmware download error (timed out) when DM860A related firmware was rewritten.		Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
B2	Error message received when DM860A related firmware was rewritten		Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
B3	Firmware writing error message. When DM860A related firmware was rewritten. (Timeout failure)		Turn off and on the power. Updating starts automatically. Carry out the update in an environment that has little network load.
B4	Mode change failure of DM860A. When DM860A related firmware was rewritten. (Boot Loader Mode)		Reset and update again.
B5	Mode change failure of DM860A. When DM860A related firmware was rewritten. (Application Mode)		Reset and update again.

Device display during firmware update

Target of device when firmware updated.

Target of device	Display	Error cpde
Main	Main	10~15 36~3F
Sub	Sub	50~52 54~58 5A~62
PLD	APLD	50~52 54~58 5A~62
DSP1	DSP1	50~52 54~58 5A~62
DSP2	DSP2	50~52 54~58 5A~62
DSP3	DSP3	50~52 54~58 5A~62
GUI (ADV8003)	GUI	50~52 54~58 5A, 62 80~86
DM8x0BootLoader	ESBL	A0~A4 A6~A7 AE~B5
DM8x0Image	EIMG	A0~A4 A6~A7 AE~B5
DM8x0Image (EmergencyMode)	Please wait... Update retry	-

3. How to update by USB Memory

You can update the firmware by downloading the latest version with USB Memory.

3.1. Connecting to the Network

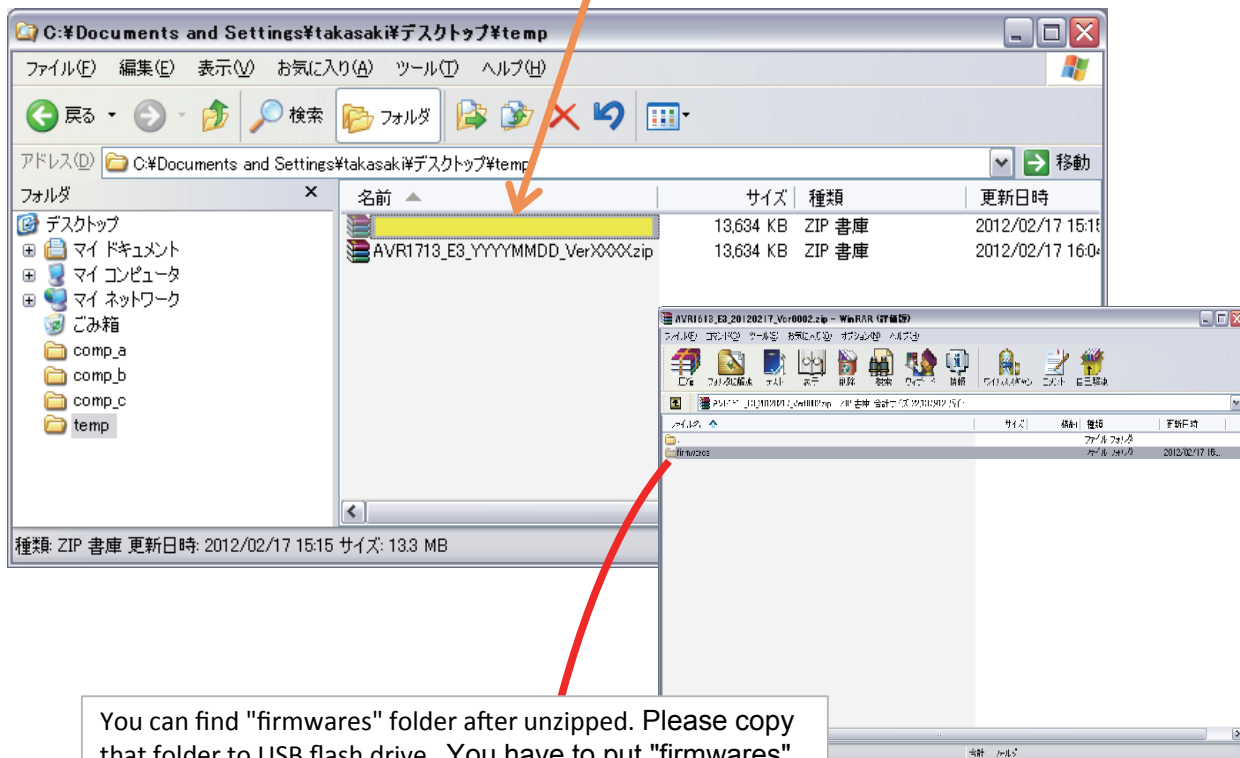
(1) Requirements

- USB Memory capacity : FAT16 : 2 GB, FAT32 : 2 TB
- USB memory devices will not work via a USB hub.
- It is not possible to use this unit by connecting the unit's USB port to a PC via a USB cable.
- Do not use an extension cable when connecting a USB memory device.
This may cause radio interference.

3.2. Unzip Download File

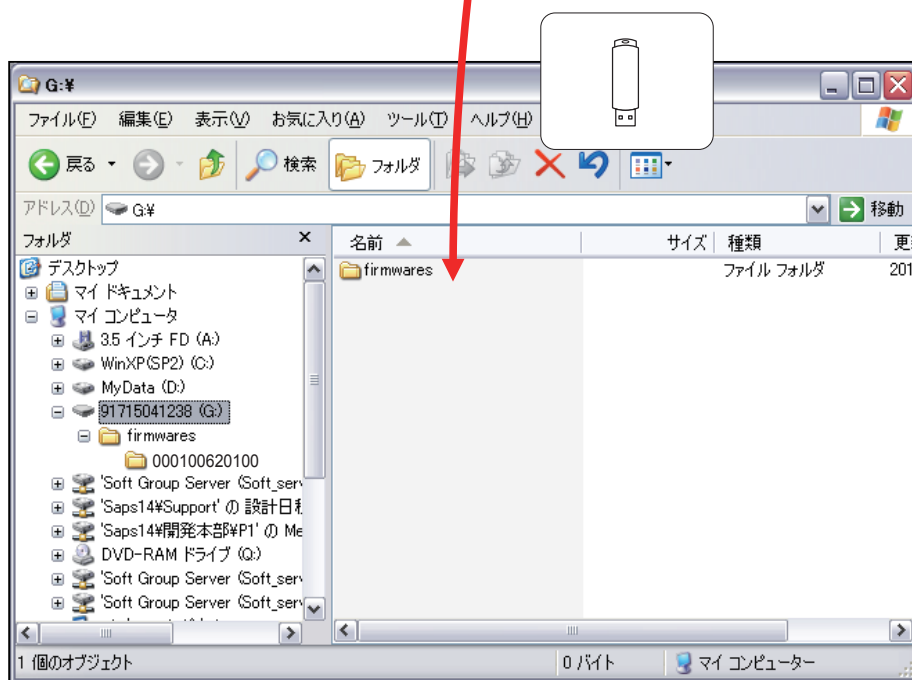
Please unzip the downloaded file on PC.

AV8801U1B USB_AV8801U_100100180100-0001.zip



You can find "firmwares" folder after unzipped. Please copy that folder to USB flash drive. You have to put "firmwares" folder on root directly on USB flash drive(memory).

copy to USB flash drive



3.3. Copy for USB flash drive USB location is below

USB memory root

Model Name	Model Area	Product ID
AV8801	North America (U)	100100180100
	Europe (N)	100100180200
	China (K)	100100180500

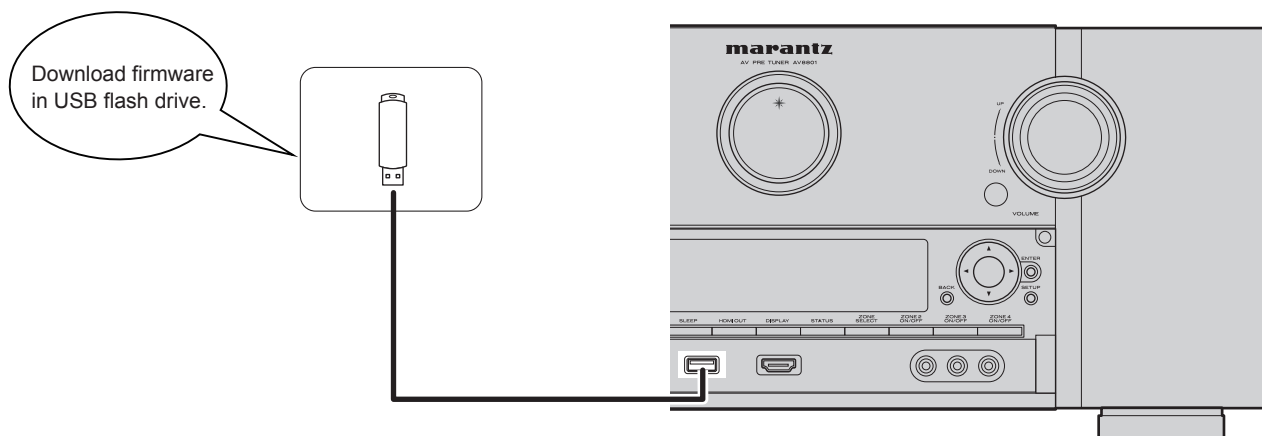
+ firmwares

- + 100100180100
- + APLD.bin
- + DSP1.bin
- + DSP2.bin
- + DSP3.bin
- + enc_update.xml
- + GUI.bin
- + IMG.bcd
- + MAIN.bin
- + SBL.bcd
- + SUB.bin



3.4. Insert the USB memory into a USB port

NOTE: Please UNPLUG LAN cable from the unit during update.



3.5. Start update

Turn on the power of this unit in the "ZONE SELECT" + "DISPLAY" button.

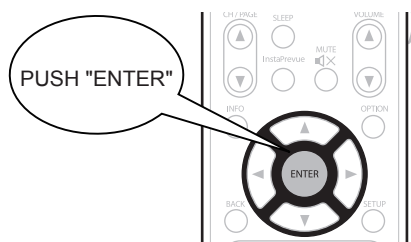
3.6. "USB Update Start" on FL Display

After around half minutes, FL display shows the following message.

FL Display

Upper	*	F	I	R	M	W	A	R	E		U	P	D	A	T	E
Lower	U	S	B		U	P	d	a	t	e		S	t	a	r	t

3.7. Push "ENTER" key on RC or Main unit



Then start Firmware Update.

FL Display

Upper	P	l	e	a	s	e		w	a	i	t	.	.	.		
Lower	U	P	d	a	t	e	F	i	l	e	C	h	e	c	k	

3.8. Finish firmware update

FL display shows the following message.

FL Display

Upper	F	i	r	m		U	P	d	a	t	e					
Lower	U	P	d	a	t	i	n	g	C	o	m	p	l	e	t	e

3

--- Cautions on Firmware Update ---

- Do not remove a USB memory until updating is completed.
- Do not turn off the power until updating is completed.

Approximately 1 hour is required for the updating procedure to be completed.

Once updating starts, normal operations on the this unit cannot be performed until updating is completed. Also, setting items of the GUI menu of this unit or setting items of the image adjustment may be initialized.

Note down the settings before updating, and set them again after updating.

3.9. About the error code

See the table below for error codes and details of faults when the firmware is updated through USB memory.

Error Code	Details of Error code	Display	Coping strategies
01	Unable to detect USB.	Connection fail 1 01	Disconnect and connect the USB memory.
02	No FirmwareFile in USB.	FilesNotFound 02	Make sure that the FirmwareFile is in the USB memory.
03	FirmwareFile in USB for unsupported Model name/area	NotMatchFirm 03	Check the supported Model name/area for the FirmwareFile.
04	Failed to obtain entire Firmware information.	Connection fail 1 04	Start the USB Update again.
05	TimeOut while obtaining entire Firmware information	Connection fail 1 05	Start the USB Update again.
06	Failed to obtain individual Firmware information.	Connection fail 1 06	Start the USB Update again.
07	TimeOut while obtaining individual Firmware information	Connection fail 1 07	Start the USB Update again.
08	Error notification received while requesting FirmwareInfo.	Connection fail 1 08	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
09	TimeOut while obtaining Firmware information	Connection fail 1 09	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
0A	Unable to detect USB for FirmwareDownload.	Connection fail 1 0A	Disconnect and connect the USB memory.
0B	No FirmwareFile for FirmwareDownload.	FilesNotFound 0B	Disconnect and connect the USB memory.
0C	Received value with invalid PackageVersion.	Connection fail 1 0C	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
10	No UpdatePacket received from DM860A (TimeOut).	Main 10 Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
11	Abnormal data in UpdatePacket received from DM860A (FormatError).	Main 11 Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
12	Abnormal data in UpdatePacket received from DM860A (ChecksumError).	Main 12 Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
13	BlockErase failed before rewriting Main.	Main 13 Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.

Error Code	Details of Error code	Display	Coping strategies
14	BlockWrite failed while rewriting Main.	Main 14 Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
15	Error in Verify after rewriting Main (ChecksumError).	Main 15 Updating Checking	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
20	Unable to detect USB after SBLMode.	Connection fail 1 20	Disconnect and connect the USB memory.
21	No FirmwareFile in USB after SBLMode.	FilesNotFound 21	Disconnect and connect the USB memory.
22	FirmwareFile in USB after SBLMode for unsupported Model name/area	NotMatchFirm 22	Check the supported Model name/area for the FirmwareFile.
23	Failed to obtain entire Firmware information after SBLMode.	Connection fail 1 23	Disconnect and connect the USB memory.
24	TimeOut while obtaining entire Firmware information after SBLMode	Connection fail 1 24	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
25	Failed to transit to SBLMode.	Connection fail 1 25	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
26	TimeOut in Download (writing to SDRAM) for FirmwareDownload	Download fail 1 26	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
27	Failed to write to EEPROM after SBLMode.	Connection fail 1 27	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
36	Unable to detect USB.	Main 36 Connect Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the POWER button for five seconds.
37	No FirmwareFile in USB.	Main 37 Files NotFound	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
38	FirmwareFile in USB for unsupported Model name/area	Main 38 NotMatch Firm	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
39	TimeOut in USBCheck	Main 39 Connect Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
3A	Unable to detect USB for FirmwareDownload.	Main 3A Connect Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.

Error Code	Details of Error code	Display	Coping strategies
3B	No FirmwareFile for FirmwareDownload.	Main 3B Files Not Found	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
3F	Failed to transit to SBLMode.	Main 3F Connect Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
50	Unable to detect USB.	Sub 50 Connect Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
51	No FirmwareFile in USB.	Sub 51 Connect Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
52	FirmwareFile in USB for unsupported Model name/area	Sub 52 Not Match Firmware	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
54	Error notification received while requesting FirmwareInfo.	Sub 54 Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
55	TimeOut while obtaining Firmware	Sub 55 Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
56	Unable to detect USB for FirmwareDownload.	Sub 56 Connect Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
57	No FirmwareFile for FirmwareDownload.	Sub 57 Files Not Found	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
5A	Invalid DeviceID in response or no response from Sub for "C" command.	Main 5A Connect Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
5B	NACK received in response or no response from Sub for "L" command.	Sub 5B Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
5C	No UpdatePacket received from DM860A (TimeOut).	Sub 5C Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
5D	Abnormal data in UpdatePacket received from DM860A (FormatError).	Sub 5D Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
5E	Abnormal data in UpdatePacket received from DM860A (ChecksumError).	Sub 5E Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.

Error Code	Details of Error code	Display	Coping strategies
5F	Abnormal data in UpdatePacket received from DM860A (DataLength/DataNo).	Sub 5F Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
60	NACK received in response or no response from Sub for "P" command.	Sub 60 Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
61	Mismatched CheckSum in response or no response from Sub for "I" command.	Sub 61 Updat CheckNG	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
62	Sub μ -com failed to start in the POWER ON sequence during Update.	Sub 62 Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
63	Failed to transit to ApplicationMode.	Sub 63 Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
64	Failed to transit to BootLoaderMode.	Sub 64 Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
80	WriteEnableLatchBit not set in Read after issuing WREN command.	GUI 80 Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
81	BlockErase failed in Read after issuing BE command.	GUI 81 Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
82	No UpdatePacket received from DM860A (TimeOut).	GUI 82 Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
83	Abnormal data in UpdatePacket received from DM860A (FormatError).	GUI 83 Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
84	Abnormal data in UpdatePacket received from DM860A (ChecksumError).	GUI 84 Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
85	Abnormal data in UpdatePacket received from DM860A (DataLength/DataNo).	GUI 85 Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
86	Mismatched CheckSum in CheckSum comparison after rewriting.	GUI 86 Updating Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
A2	Unable to detect USB.	FMG A2 Connect Failed	This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.

Error Code	Details of Error code	Display	Coping strategies
A3	No FirmwareFile in USB.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
A4	FirmwareFile in USB for unsupported Model name/area		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
A6	Error notification received while requesting FirmwareInfo.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
A7	TimeOut while obtaining Firmware		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
AE	Unable to detect USB for FirmwareDownload.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
AF	No FirmwareFile for FirmwareDownload.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
B1	TimeOut in Download (writing to SDRAM) for FirmwareDownload		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
B2	Error notification received after rewriting DM860A Firm.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
B3	Error in FirmwareUpdate (TimeOut).		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
B4	Failed to transit to BootLoaderMode.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.
B5	Failed to transit to ApplicationMode.		This unit automatically retries several times. Wait until the FL display stops. If the FL display stops at the Error display, press and hold the "(⏻) ON/STANDBY" button for five seconds.

--- Cautions on Firmware Update ---

When an error code as shown above appears in the DISPLAY, check the following:

- Check whether the Firmware downloaded to the USB memory is correct (whether the MODEL name and area of the downloaded Firmware match those for the product, and whether the USB Memory contains data other than the latest Firmware).
- Update after resetting the product.
- Use a different USB memory.

3.10. Device display during firmware update

Display of target device during firmware update.

Target of device	Display	Error cpde
Main	<pre> Main ***min ***%</pre>	10~15 36~3B, 3F
Sub	<pre> Sub ***min ***%</pre>	50~52 54~57 5A~64
PLD	<pre> APLD ***min ***%</pre>	50~52 54~57 5A~64
DSP1	<pre> DSP1 ***min ***%</pre>	50~52 54~57 5A~64
DSP2	<pre> DSP2 ***min ***%</pre>	50~52 54~57 5A~64
DSP3	<pre> DSP3 ***min ***%</pre>	50~52 54~57 5A~64
GUI (ADV8003)	<pre> GUI ***min ***%</pre>	50~52 54~58 5A~64 80~86
DM8x0BootLoader	<pre> ESBL ***min ***</pre>	A2~A4 A6~A7 AE~AF B1~B5
DM8x0Image	<pre> EIMG ***min ***</pre>	A2~A4 A6~A7 AE~AF B1~B5
DM8x0Image (EmergencyMode)	<pre> Please wait... Update retry</pre>	—

Confirming the firmware's number after upgraded

After updating the firmware, check the version. Refer to "1. μ com/DSP Version display mode" (25 page).

SURROUND MODES AND PARAMETERS

This unit is equipped with a digital signal processing circuit that lets you play program sources in the sound mode to achieve the same sense of presence as in a movie theater.

Sound modes and surround parameters

This table shows the speakers that can be used in each sound mode and the surround parameters adjustable in each sound mode.

Symbols in the table

○ This indicates the audio output channels or surround parameters that can be set.

◎ This indicates the audio output channels. The output channels depend on the settings of "Speaker Config."

Sound Mode	Channel output						Dialog Enhancer	Subwoofer Level
	Front L/R	Center	Surround L/R	Surround back L/R	Front height L/R	Front wide L/R		
DIRECT/PURE DIRECT (2 channel)*1	○							◎ *6
DIRECT/PURE DIRECT (Multi-channel)*1	○	◎	◎	◎ *2	◎ *2	◎ *2		◎ *6
DSD DIRECT (2 channel)*1	○							◎ *6
DSD DIRECT (Multi-channel)*1	○	◎	◎					◎
7.1CH IN	○	◎	◎	◎				◎
STEREO	○							◎
MULTI CH IN	○	◎	◎	◎	◎ *3		○	◎
DOLBY PRO LOGIC IIz	○	◎	◎	◎	◎		○	◎
DOLBY PRO LOGIC IIx	○	◎	◎	◎			○	◎
DOLBY PRO LOGIC II	○	◎	◎	◎	◎ *4	◎ *5	○	◎
DOLBY PRO LOGIC IIx A-DSX	○	◎	◎	◎	◎ *4	◎ *5	○	◎
DOLBY PRO LOGIC II A-DSX	○	◎	◎	◎	◎	◎	○	◎
DTS NEO:X	○	◎	◎	◎	◎ *4	◎ *5	○	◎
Audyssey DSX®	○	◎	◎	◎	◎ *3	◎	○	◎
DOLBY DIGITAL	○	◎	◎	◎	◎ *2	◎ *2	○	◎
DOLBY DIGITAL Plus	○	◎	◎	◎	◎ *2	◎ *2	○	◎
DOLBY TrueHD	○	◎	◎	◎	◎ *3	◎	○	◎
DTS SURROUND	○	◎	◎	◎	◎ *3	◎	○	◎
DTS 96/24	○	◎	◎	◎	◎ *2	◎ *2	○	◎
DTS-HD	○	◎	◎	◎	◎ *3	◎	○	◎
DTS Express	○	◎	◎	◎	◎	◎	○	◎
MULTI CH STEREO	○	◎	◎	◎	◎	◎	○	◎
VIRTUAL	○					◎	○	◎ *6

*1 During playback in PURE DIRECT mode, the surround parameters are the same as in DIRECT mode.

*2 A signal for each channel contained in an input signal is output as audio.

*3 Audio is output from the front height speaker when the set sound mode name contains "+PLIIz". For information on how to check the sound mode.

*4 Audio is output from the front height speaker when "Audyssey DSX®" in the menu is set to "Wides/Heights" or "Heights".

*5 Audio is output from the front wide speaker when "Audyssey DSX®" in the menu is set to "Wides/Heights" or "Wides".

*6 Only when "Subwoofer Mode" is set to "LFE+Main", sound is output from the subwoofer.

Sound Mode	Surround Parameter									
	Home Theater EQ	Loudness Management *9	Dynamic Compression *10	Bass Sync *11	Low Frequency Effects *11	Height Gain *12	PRO LOGIC II/IIx Music mode only			NEO:X mode only
							Panorama	Dimension	Center Width	
DIRECT/PURE DIRECT (2 channel) *1	○	○								Center Gain
DIRECT/PURE DIRECT (Multi-channel) *1	○	○			○					
DSD DIRECT (2 channel) *1					○					
DSD DIRECT (Multi-channel) *1					○					
7.1CH IN					○					
STEREO		○	○	○	○					
MULTI CH IN	○ *7			○	○					
DOLBY PRO LOGIC IIz	○	○	○			○				
DOLBY PRO LOGIC IIx	○ *8	○	○				○	○	○	
DOLBY PRO LOGIC II	○ *8	○	○				○	○	○	
DOLBY PRO LOGIC IIx A-DSX	○ *8	○	○				○	○	○	
DOLBY PRO LOGIC II A-DSX	○ *8	○	○				○	○	○	○
DTS NEO:X	○ *8	○	○							○
Audyssey DSX®	○	○	○	○	○					
DOLBY DIGITAL	○ *7			○	○	○				
DOLBY DIGITAL Plus	○ *7		○	○	○	○				
DOLBY TrueHD	○ *7	○	○	○	○	○				
DTS SURROUND	○ *7		○	○	○	○				
DTS 96/24	○ *7			○	○	○				
DTS-HD	○ *7			○	○	○				
DTS Express	○ *7			○	○	○				
MULTI CH STEREO		○	○	○	○					
VIRTUAL		○	○	○	○					

- *1 During playback in PURE DIRECT mode, the surround parameters are the same as in DIRECT mode.
- *7 This setting is unavailable when the set sound mode name contains "+PLII Music" or "+NEOX Music". For information on how to check the sound mode.
- *8 This setting is possible when the sound mode is "Movie" mode.
- *9 This item can be selected when a Dolby TrueHD signal is played.
- *10 This item can be selected when a Dolby Digital or DTS signal is played.
- *11 This item can be selected when a Dolby Digital or DTS signal or DVD-Audio is played.
- *12 This setting is available when the set sound mode name contains "+PLIIz". For information on how to check the sound mode.

Sound Mode	Tone *13	Audyssey					M-DAX *15
		MultEQ® XT 32	Dynamic EQ *14	Dynamic Volume *14	Audyssey LFC™ *14	Audyssey DSX®	
DIRECT/PURE DIRECT (2 channel) *1							
DIRECT/PURE DIRECT (Multi-channel) *1							
DSD DIRECT (2 channel) *1							
DSD DIRECT (Multi-channel) *1							
7.1CH IN							
STEREO	☐	☐	☐	☐	☐		☐
MULTI CH IN	☐	☐	☐	☐	☐	☐	
DOLBY PRO LOGIC IIz	☐	☐	☐	☐	☐	☐	☐
DOLBY PRO LOGIC IIx	☐	☐	☐	☐	☐	☐	☐
DOLBY PRO LOGIC II	☐	☐	☐	☐	☐	☐	☐
DOLBY PRO LOGIC IIx A-DSX	☐	☐	☐	☐	☐	☐	☐
DOLBY PRO LOGIC II A-DSX	☐	☐	☐	☐	☐	☐	☐
DTS NEO:X	☐	☐	☐	☐	☐	☐	☐
Audyssey DSX®	☐	☐	☐	☐	☐	☐	☐
DOLBY DIGITAL	☐	☐	☐	☐	☐	☐	
DOLBY DIGITAL Plus	☐	☐	☐	☐	☐	☐	
DOLBY TrueHD	☐	☐	☐	☐	☐	☐	
DTS SURROUND	☐	☐	☐	☐	☐	☐	
DTS 96/24	☐	☐	☐	☐	☐	☐	
DTS-HD	☐	☐	☐	☐	☐	☐	
DTS Express	☐	☐	☐	☐	☐	☐	
MULTI CH STEREO	☐	☐	☐	☐	☐		☐
VIRTUAL	☐	☐	☐	☐	☐		☐

- *1 During playback in PURE DIRECT mode, the surround parameters are the same as in DIRECT mode.
- *13 This item cannot be set when "Dynamic EQ" is set to "On".
- *14 This item cannot be set when "MultEQ® XT 32" is set to "Off" or "Graphic EQ".
- *15 This item can be set when the input signal is analog, PCM 48 kHz or 44.1 kHz.

Types of input signals, and corresponding sound modes

This table shows the input signal that can be played in each sound mode. Check the audio signal of the input source then select the sound mode.

Symbols in the table

- This indicates the default sound mode.
- This indicates the selectable sound mode.

Sound Mode	NOTE	Input signal types and formats													Super Audio CD				
		ANALOG	PCM		DTS-HD		DTS			DOLBY		DOLBY DIGITAL			DOLBY DIGITAL (2ch)	DSD (multi ch)	DSD (2ch)		
			PCM (multi ch)	PCM (2ch)	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS EXPRESS	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY TrueHD	DOLBY DIGITAL Plus	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1ch)	DOLBY DIGITAL (2ch)		
DTS SURROUND																			
DTS-HD MSTR	*1				●														
DTS-HD HI RES	*1					●													
DTS ES DSCRT6.1	*2							●											
DTS ES MTRX6.1	*2								●										
DTS SURROUND	*1							○	○	●									
DTS 96/24	*1																		
DTS (–HD) + PLIIx Movie	*3				○		○			○	●								
DTS (–HD) + PLIIx Music	*2				○		○			○	○								
DTS (–HD) + PLIIz	*4				○		○	○		○	○								
DTS EXPRESS	*1						●												
DTS (–HD) + NEO:X Cinema					○		○	○	○	○	○								
DTS (–HD) + NEO:X Music					○		○	○	○	○	○								
DTS (–HD) + NEO:X Game					○		○	○	○	○	○								
DTS NEO:X Cinema	*1	○															○		
DTS NEO:X Music	*1	○															○		
DTS NEO:X Game	*1	○															○		
Audyssey DSX®					○		○		○	○	○								

- *1 If "Audyssey DSX®" is set to "Wides/Heights", "Heights" or "Wides", the Audyssey DSX® effect is added to the sound mode marked with *1.
- *2 If "Speaker Config." – "Surr. Back" is set to "None", this sound mode cannot be selected.
- *3 If "Speaker Config." – "Surr. Back" is set to "1spkr" or "None", this sound mode cannot be selected.
- *4 If "Speaker Config." – "Front Height" is set to "None", this sound mode cannot be selected.

Sound Mode	NOTE	Input signal types and formats														Super Audio CD		
		ANALOG	PCM		DTS-HD		DTS			DOLBY		DOLBY DIGITAL						
			PCM (multi ch)	PCM (2ch)	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS EXPRESS	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY TrueHD	DOLBY DIGITAL Plus	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)			DOLBY DIGITAL (5.1ch)
																	DSD (multi ch)	DSD (2ch)
DOLBY SURROUND																		
DOLBY TrueHD	*1										●							
DOLBY DIGITAL+	*1																	
DOLBY DIGITAL EX	*2													○				
DOLBY (D+) (HD) +EX	*2													○				
DOLBY DIGITAL	*1																	
DOLBY (D) (D+) (HD) + PLiX Movie	*3													●				
DOLBY (D) (D+) (HD) + PLiX Music	*2													○				
DOLBY (D) (D+) (HD) + PLiZ	*4													○				
DOLBY (D) (D+) (HD) + NEO:X Cinema														○				
DOLBY (D) (D+) (HD) + NEO:X Music														○				
DOLBY (D) (D+) (HD) + NEO:X Game														○				
DOLBY PRO LOGIC IIx Movie	*2	○														○		○
DOLBY PRO LOGIC IIx Music	*2	○														○		○
DOLBY PRO LOGIC IIx Game	*2	○														○		○
DOLBY PRO LOGIC IIx Movie A-DSX		○														○		○
DOLBY PRO LOGIC IIx Music A-DSX		○														○		○
DOLBY PRO LOGIC IIx Game A-DSX		○														○		○
DOLBY PRO LOGIC IIz	*4	○														○		○
DOLBY PRO LOGIC II Movie	*1	○														○		○
DOLBY PRO LOGIC II Music	*1	○														○		○
DOLBY PRO LOGIC II Game	*1	○														○		○
DOLBY PRO LOGIC II Movie A-DSX		○														○		○
DOLBY PRO LOGIC II Music A-DSX		○														○		○
DOLBY PRO LOGIC II Game A-DSX		○														○		○
Audyssey DSX®													○	○	○	○		○

*1 If "Audyssey DSX®" is set to "Wides/Heights", "Heights" or "Wides", the Audyssey DSX® effect is added to the sound mode marked with *1.

*2 If "Speaker Config." = "Surr. Back" is set to "None", this sound mode cannot be selected.

*3 If "Speaker Config." = "Surr. Back" is set to "1spkr" or "None", this sound mode cannot be selected.

*4 If "Speaker Config." = "Front Height" is set to "None", this sound mode cannot be selected.

Sound Mode	NOTE	Input signal types and formats															Super Audio CD		
		ANALOG	PCM		DTS-HD		DTS			DOLBY		DOLBY DIGITAL							
			PCM (multi ch)	PCM (2ch)	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS EXPRESS	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY TrueHD	DOLBY DIGITAL Plus	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL (5.1ch)			DOLBY DIGITAL (2ch)
MULTI CH IN																			
MULTI CH IN + PLIIx Movie	*1	●																○	
MULTI CH IN + PLIIx Music	*3	○																○	
MULTI CH IN + PLIIx Music	*2	○																○	
MULTI CH IN + PLIIz	*4	○																○	
MULTI CH IN + NEOX Cinema		○																	
MULTI CH IN + NEOX Music		○																	
MULTI CH IN + NEOX Game		○																	
MULTI CH IN + Dolby EX	*2	○																○	
MULTI CH IN 7.1	*2	● (7.1)																	
Audyssey DSX®		○																○	
DIRECT																			
DIRECT		○		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
PURE DIRECT																			
PURE DIRECT		○		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Original sound mode																			
MULTI CH STEREO		○		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
VIRTUAL		○		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
STEREO																			
STEREO		●		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

*1 If "Audyssey DSX®" is set to "Wides/Heights", "Heights" or "Wides", the Audyssey DSX® effect is added to the sound mode marked with *1.

*2 If "Speaker Config." is set to "None", this sound mode cannot be selected.

*3 If "Speaker Config." is set to "1spkr" or "None", this sound mode cannot be selected.

*4 If "Speaker Config." is set to "None", this sound mode cannot be selected.

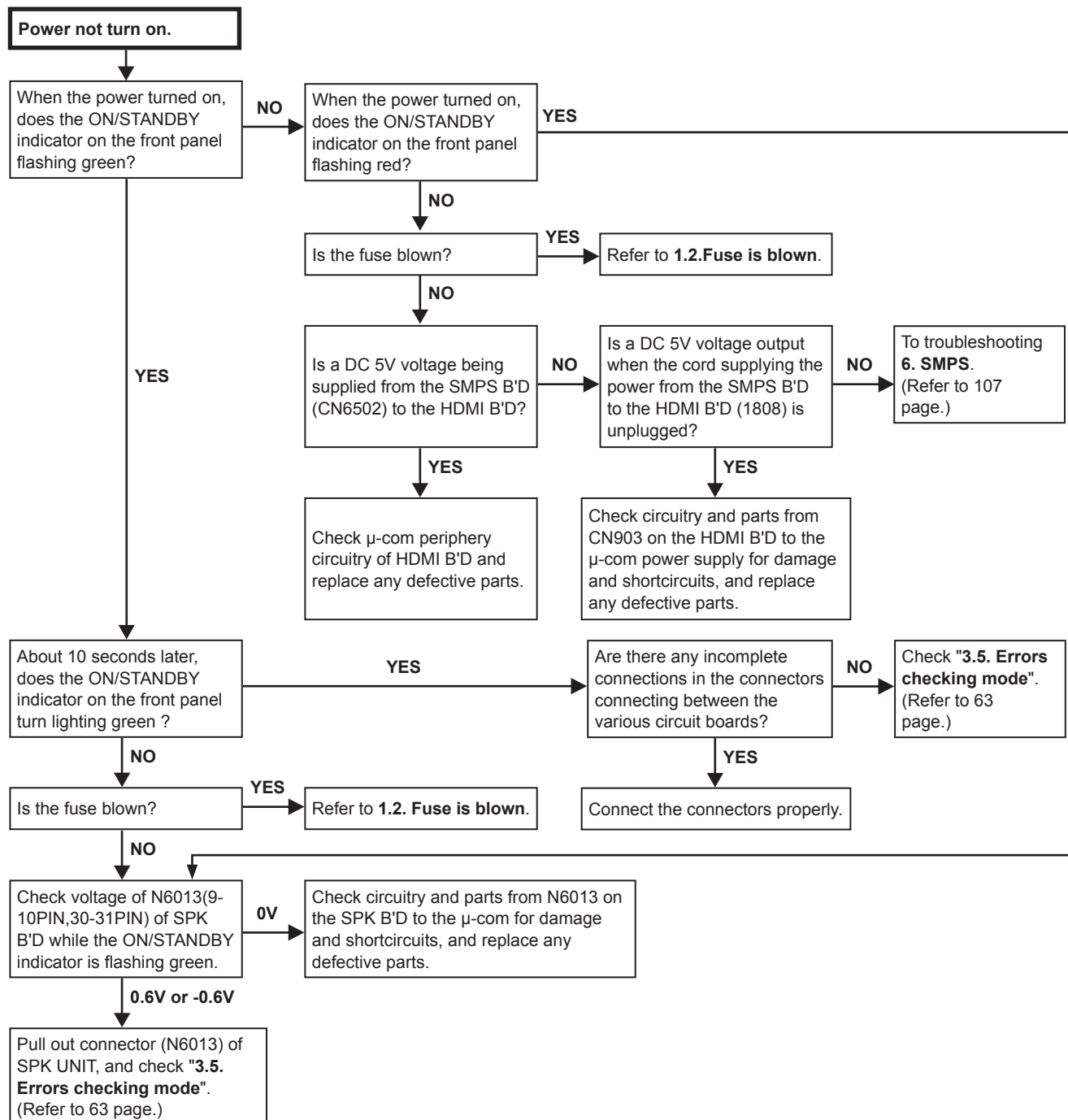
*5 During AirPlay playback, the sound mode becomes "DIRECT" (Default).

This image shows a full page of blank, lined paper. It features approximately 28 horizontal blue or grey lines spaced evenly apart, typical of notebook paper. The lines extend across the entire width of the page, leaving small margins at the top and bottom. There are no vertical lines, text, or other markings on the page.

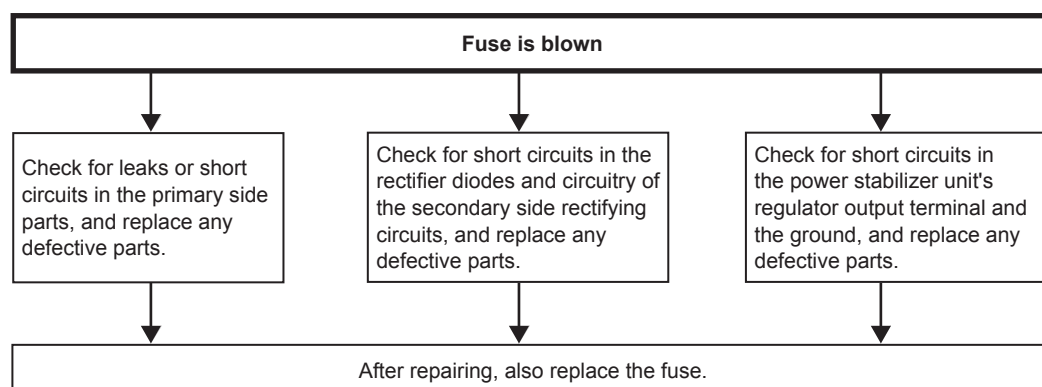
TROUBLE SHOOTING

1. POWER

1.1. Power not turn on



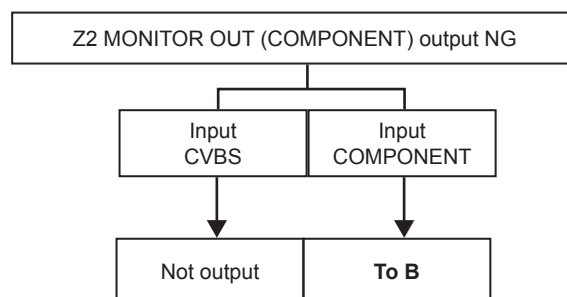
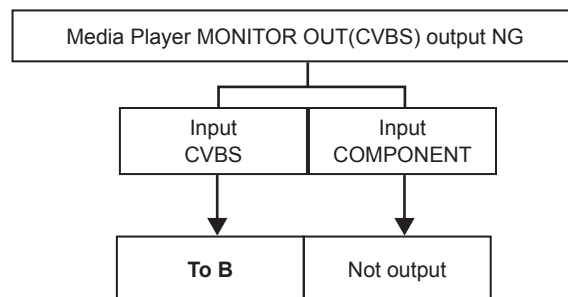
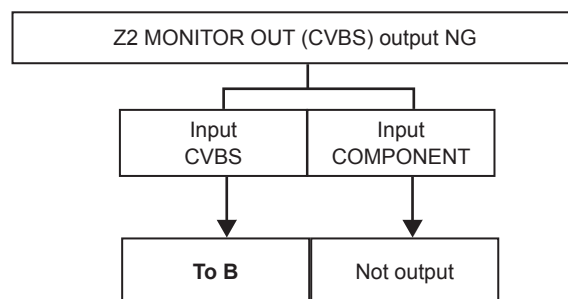
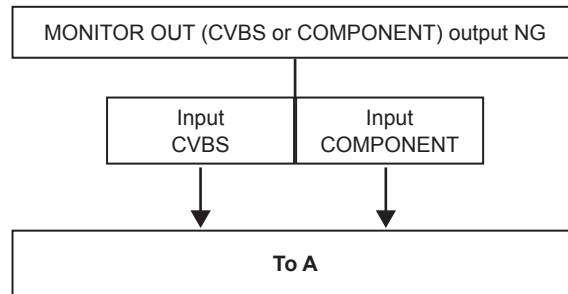
1.2. Fuse is blown

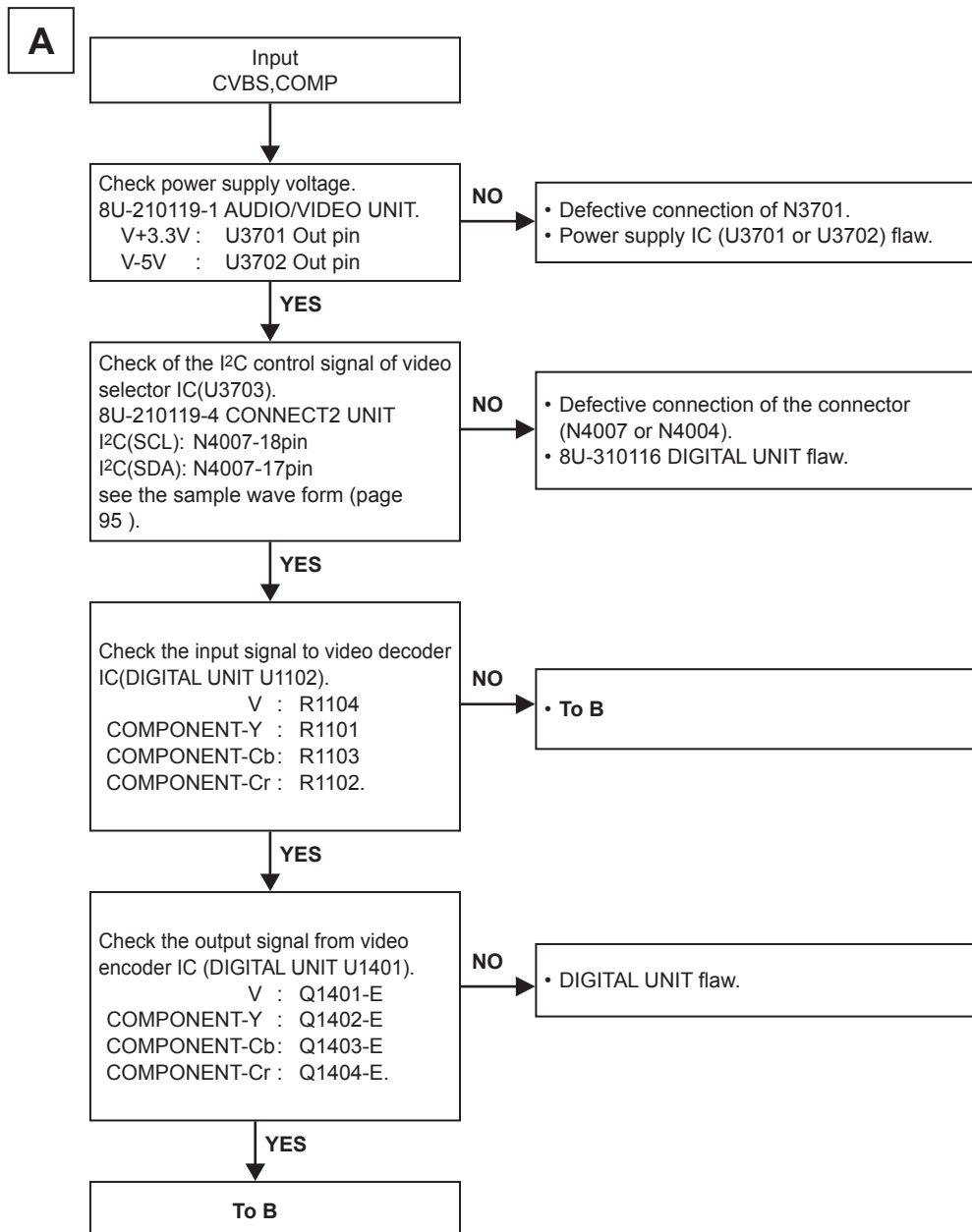


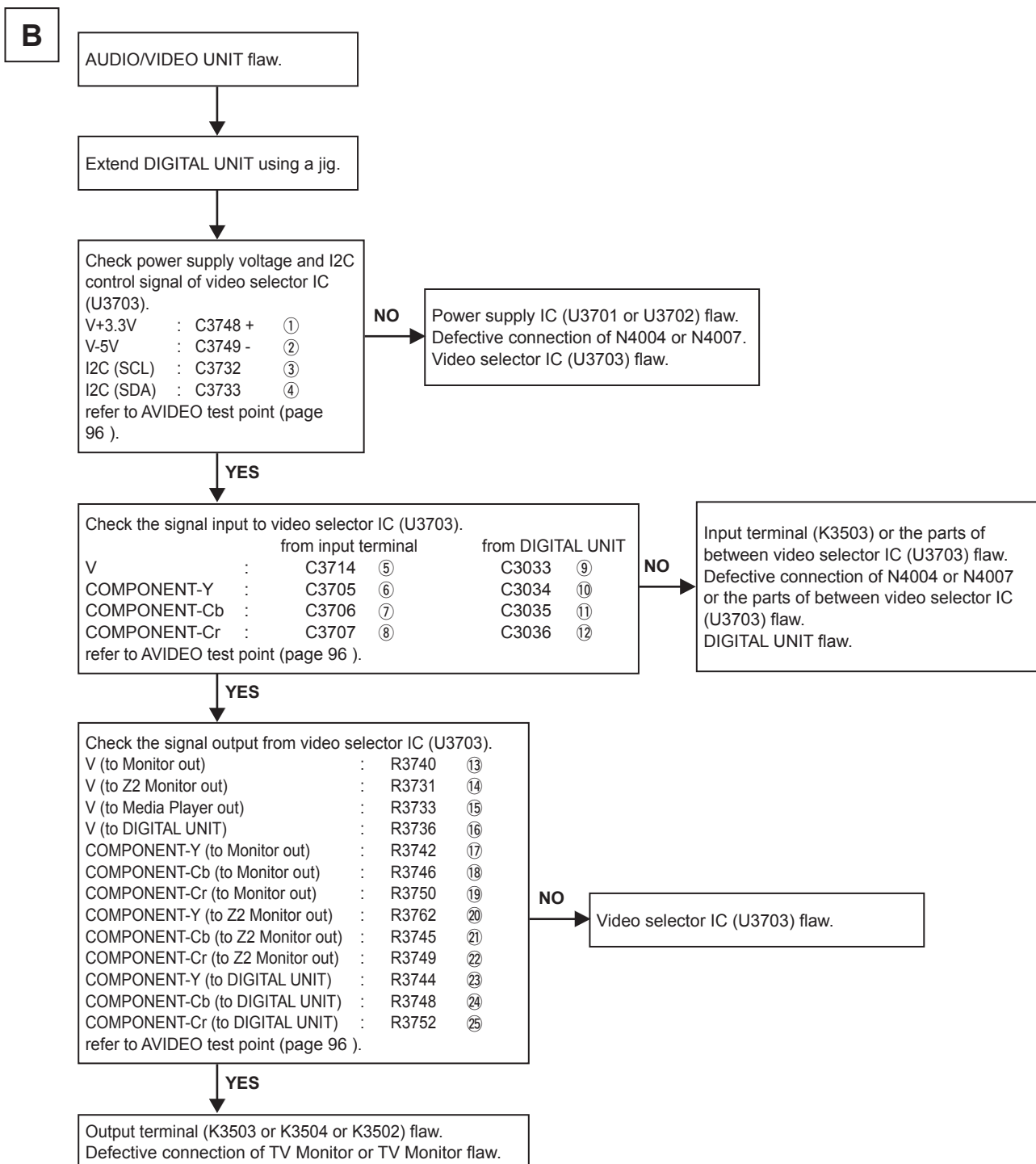
2. Analog video

Perform the operation below beforehand.-

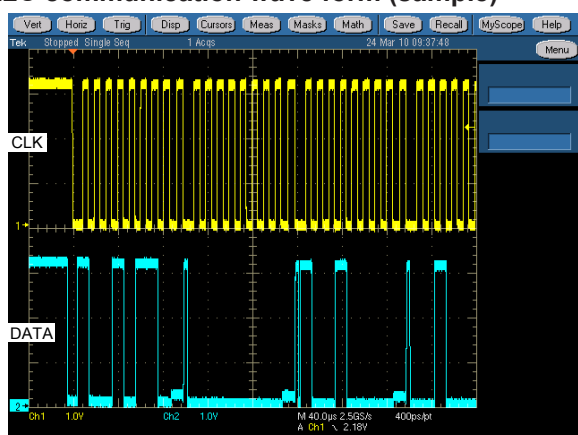
- ※ Check it whether connection cable and Monitor are normal.
- ※ VIDEO Convert is set to ON.
- ※ COMPONENT signal is set to 480i.
- ※ ZONE2 is set to POWER ON.
- ※ Function is set to CBL/SAT.



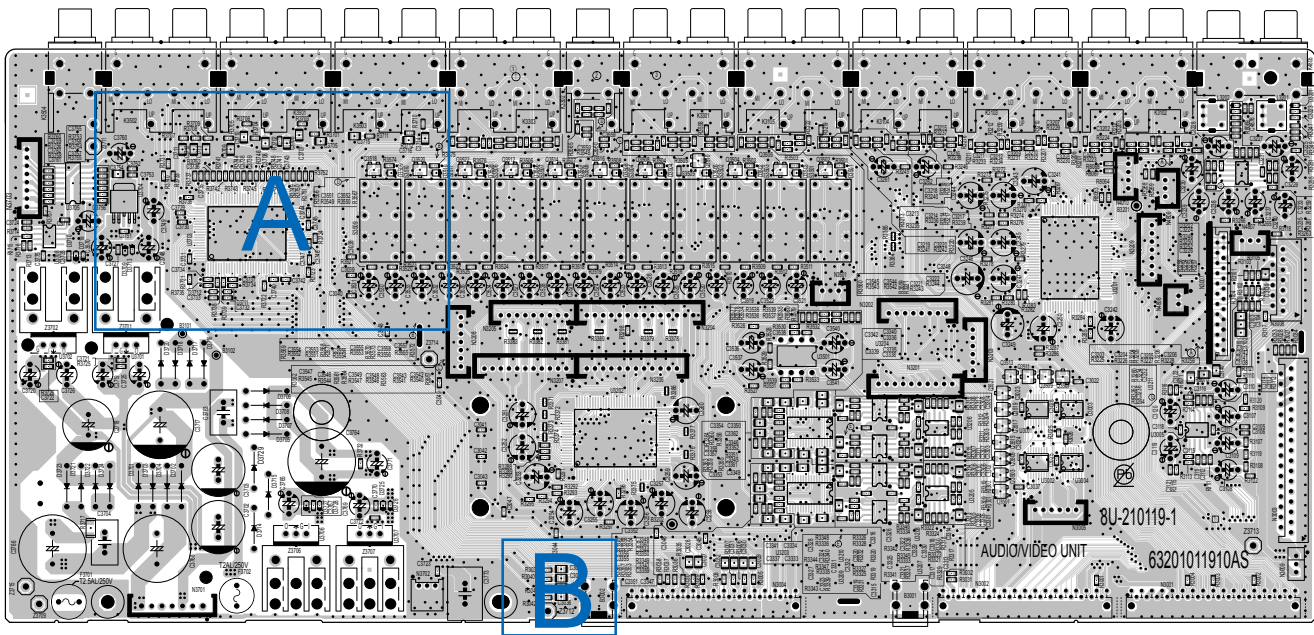




I2C communication wave form (sample)

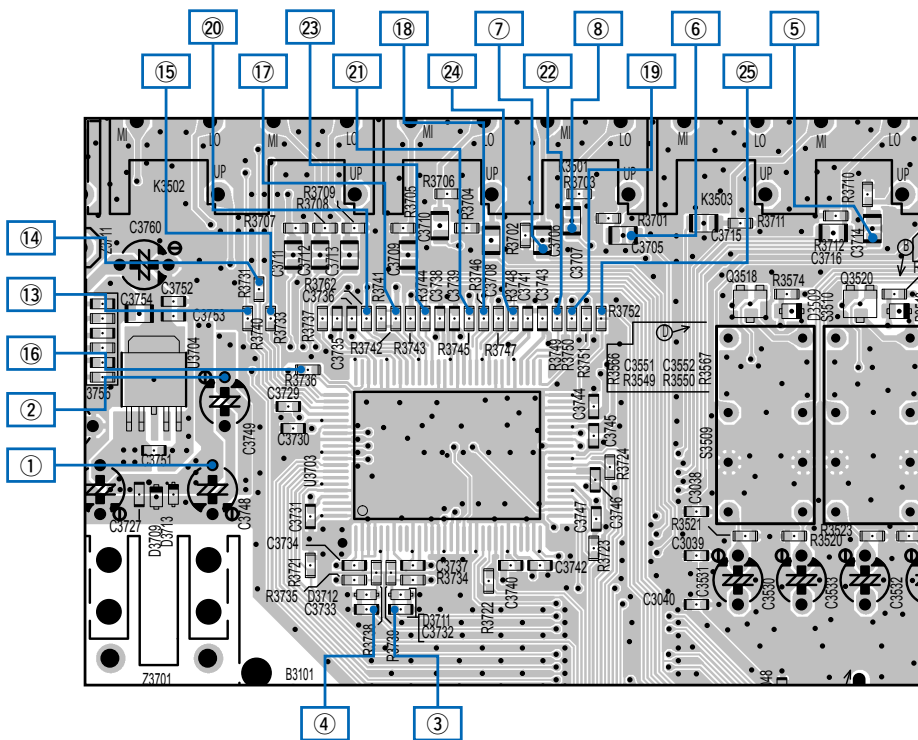


AUDIO/VIDEO UNIT test point

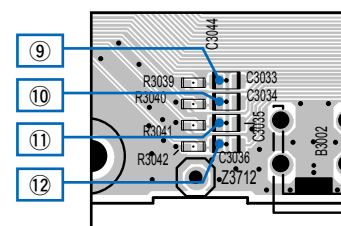


(COMPONENT SIDE)

Detail A

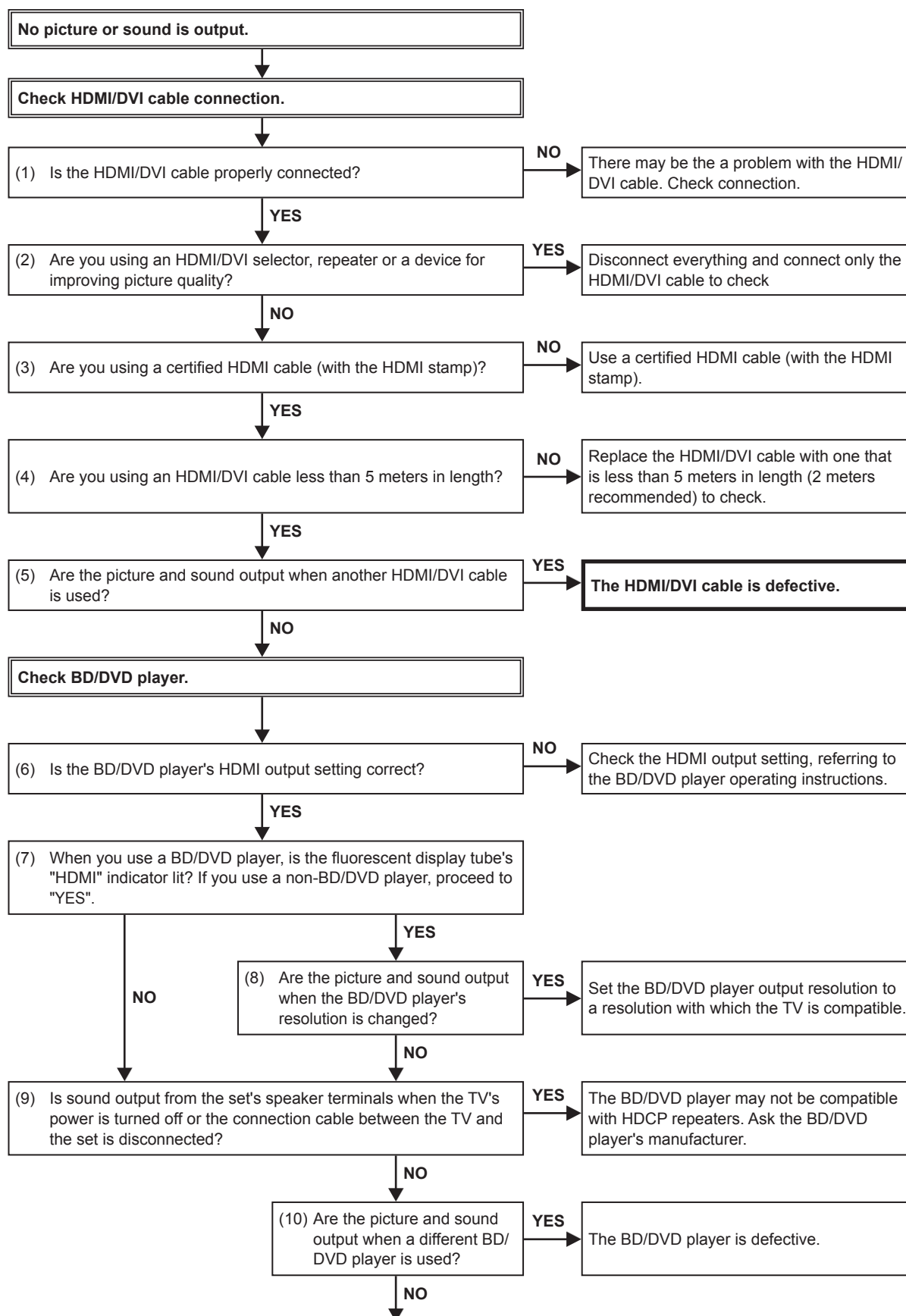


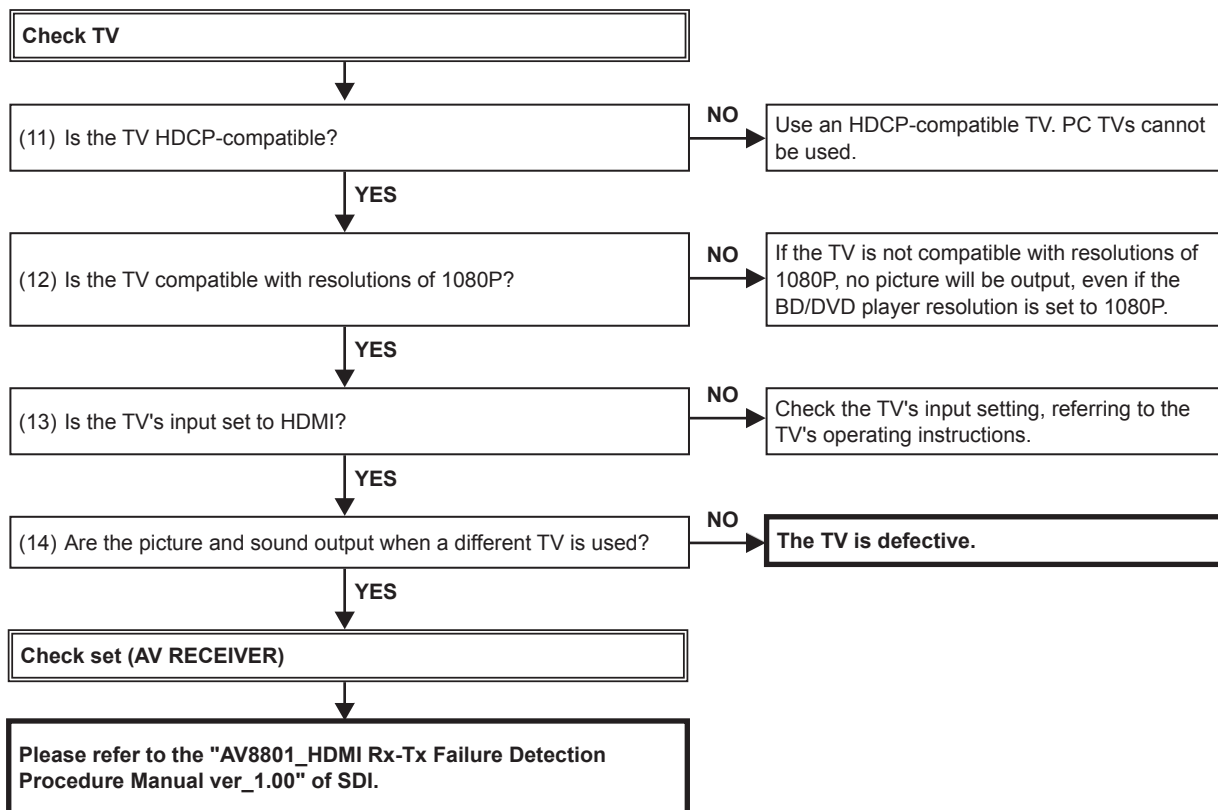
Detail B



3. HDMI/DVI

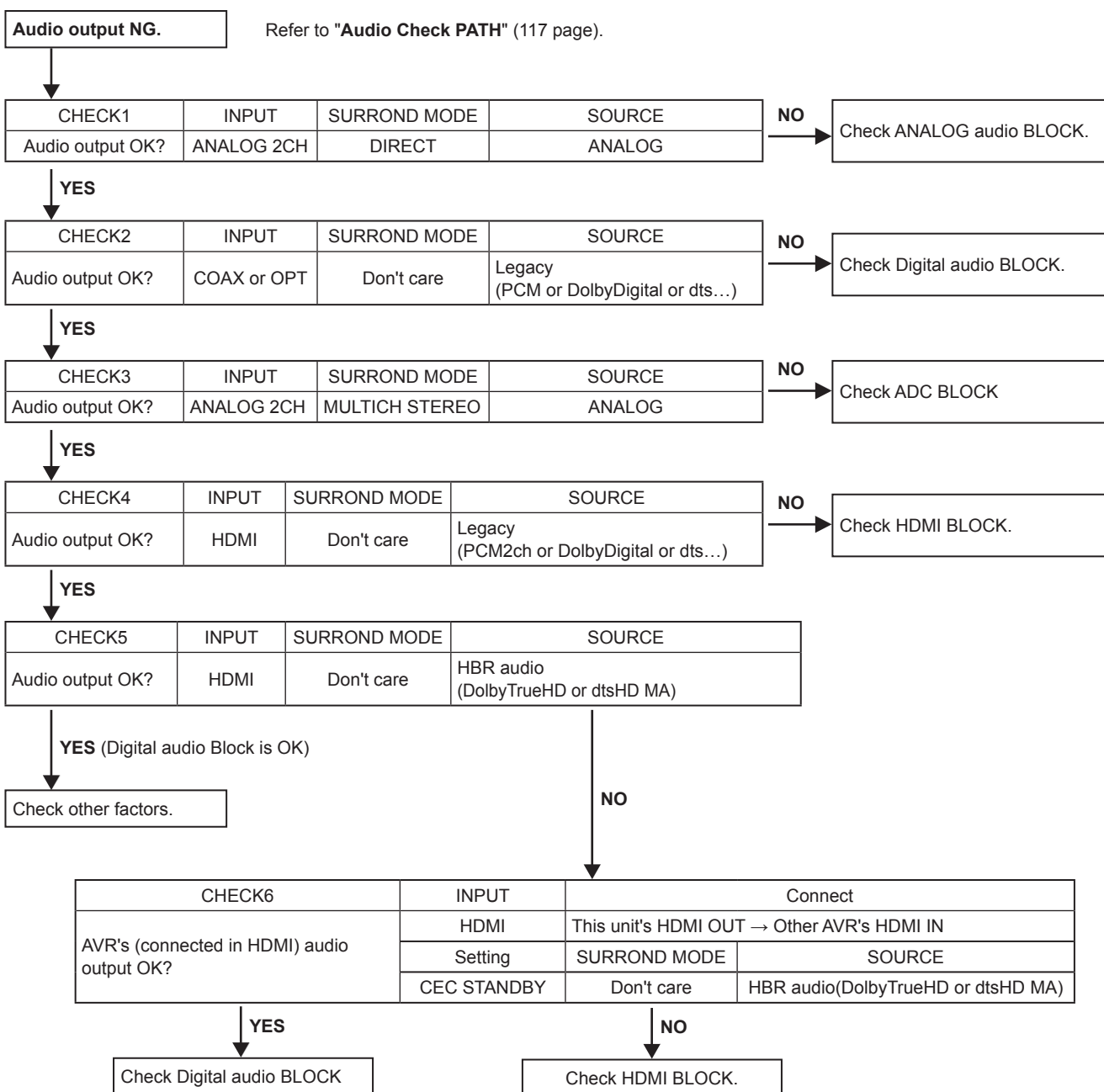
3.1. No picture or sound is output (HDMI to HDMI)



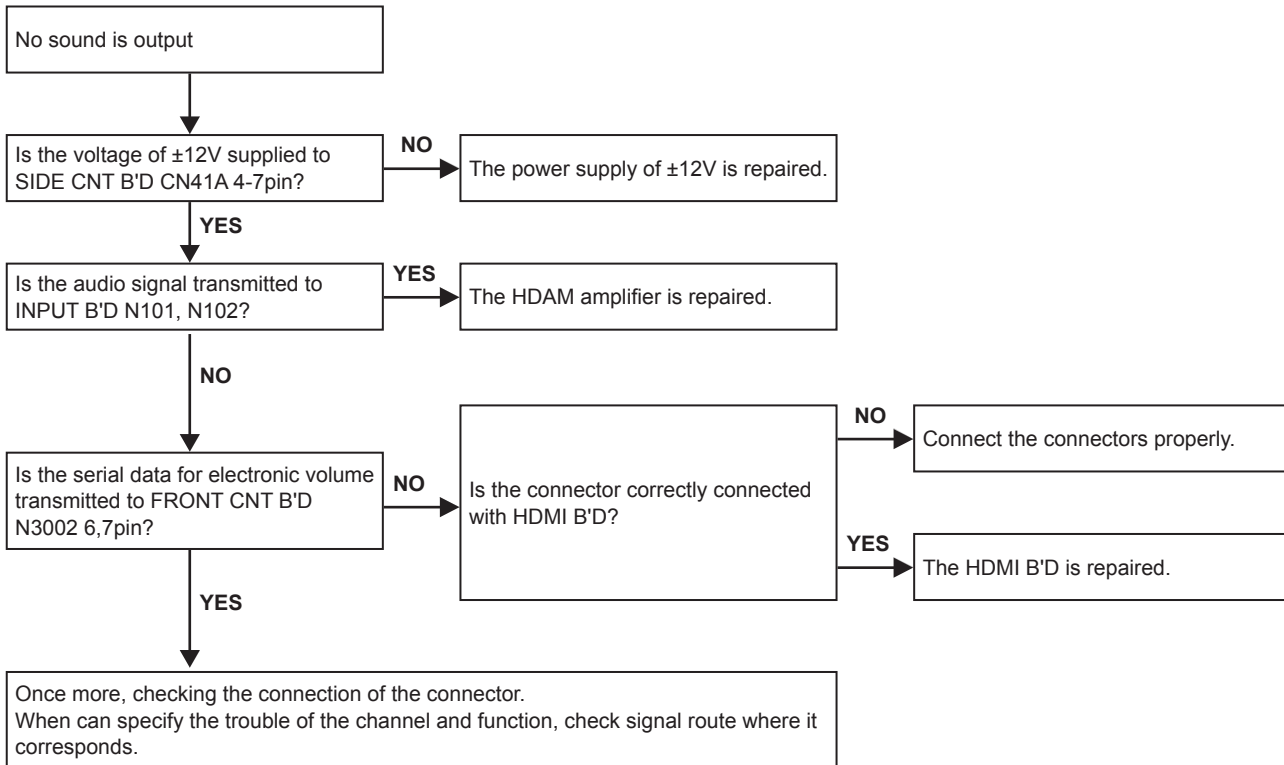


4. AUDIO

4.1. AUDIO CHECK

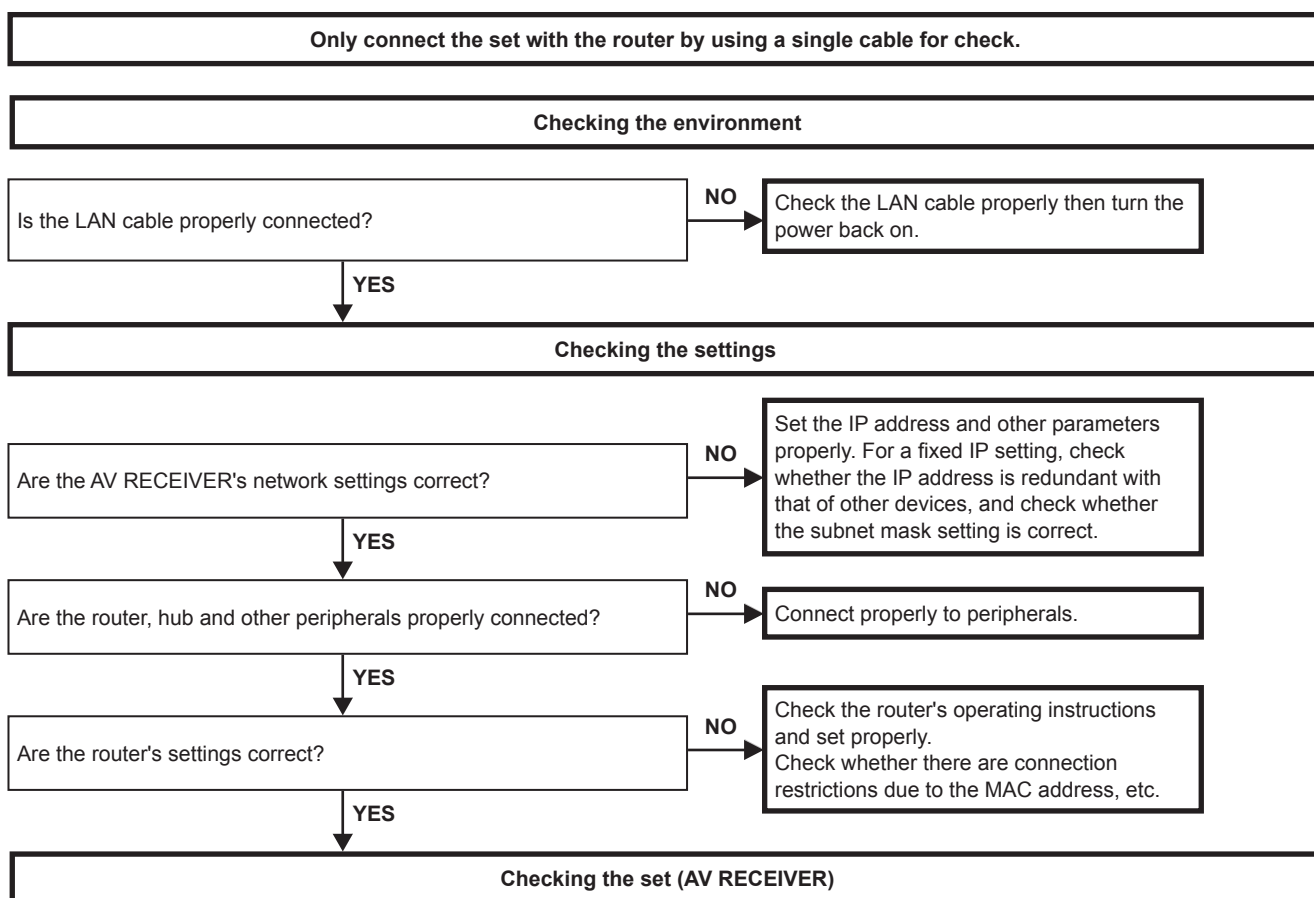


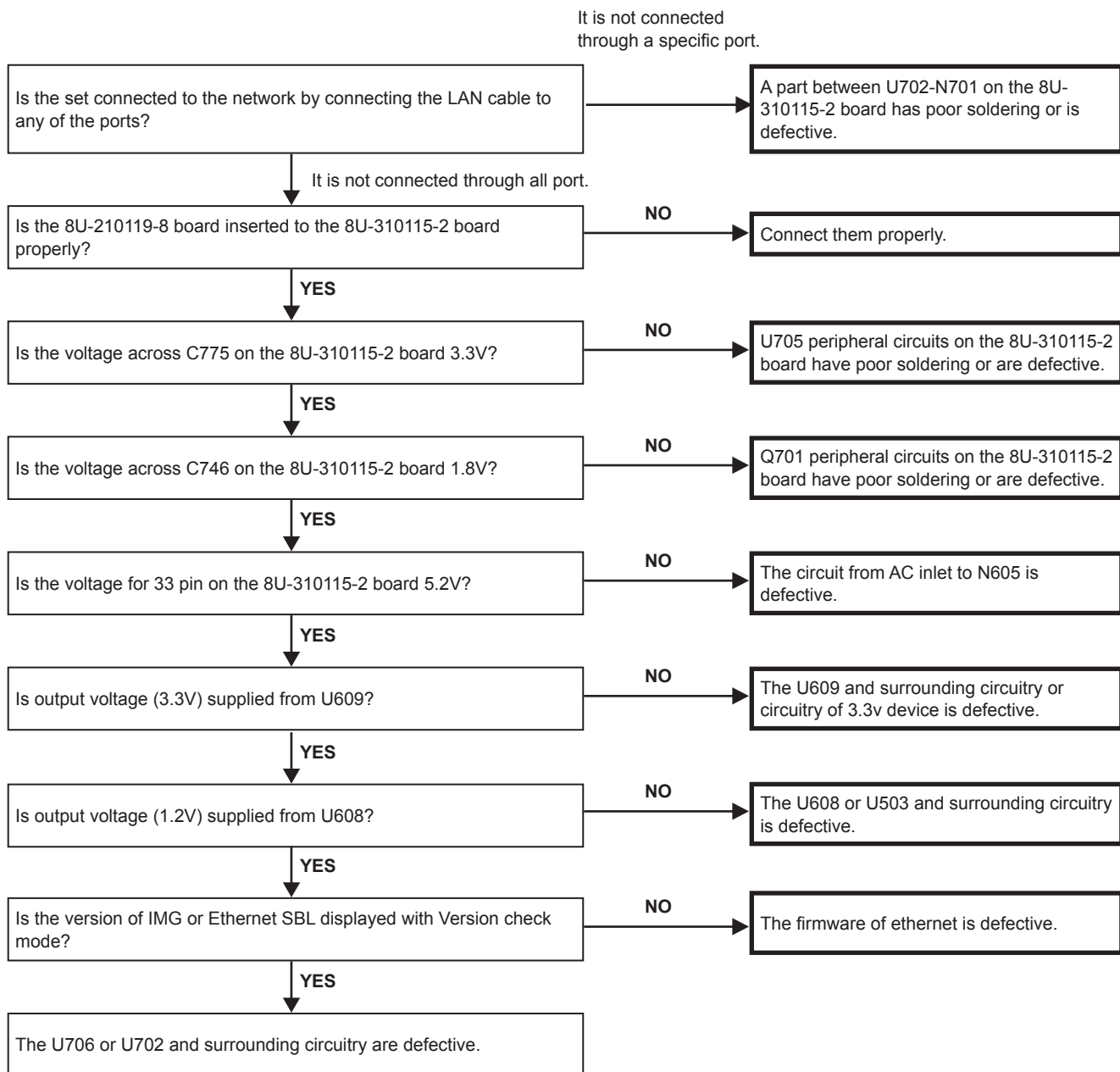
4.2. Analog audio



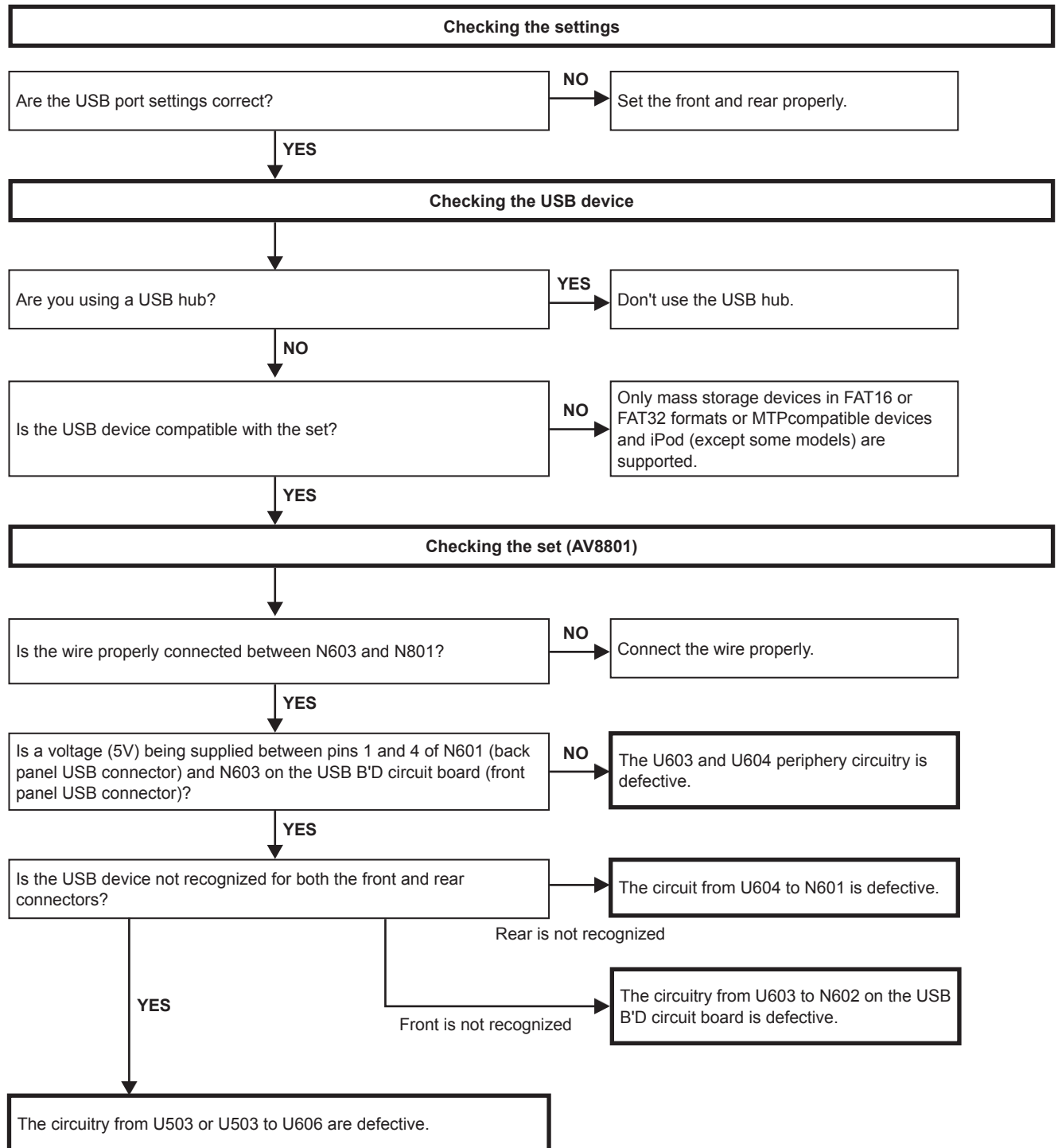
5. Network/USB

5.1. Cannot connect to network





5.2. USB device is not recognized



5.3. No picture or sound is output

Checking the set (AV8801):(If no picture is output)

Are video signals output from U607 pin 27 (Y) and pin 24 (C)?

NO

U607 and surrounding circuitry is defective.

YES

Check the analog video circuit.

Checking the set (AV8801):(If no sound is output)

Are S/PDIF signals output to N605 pin 7?

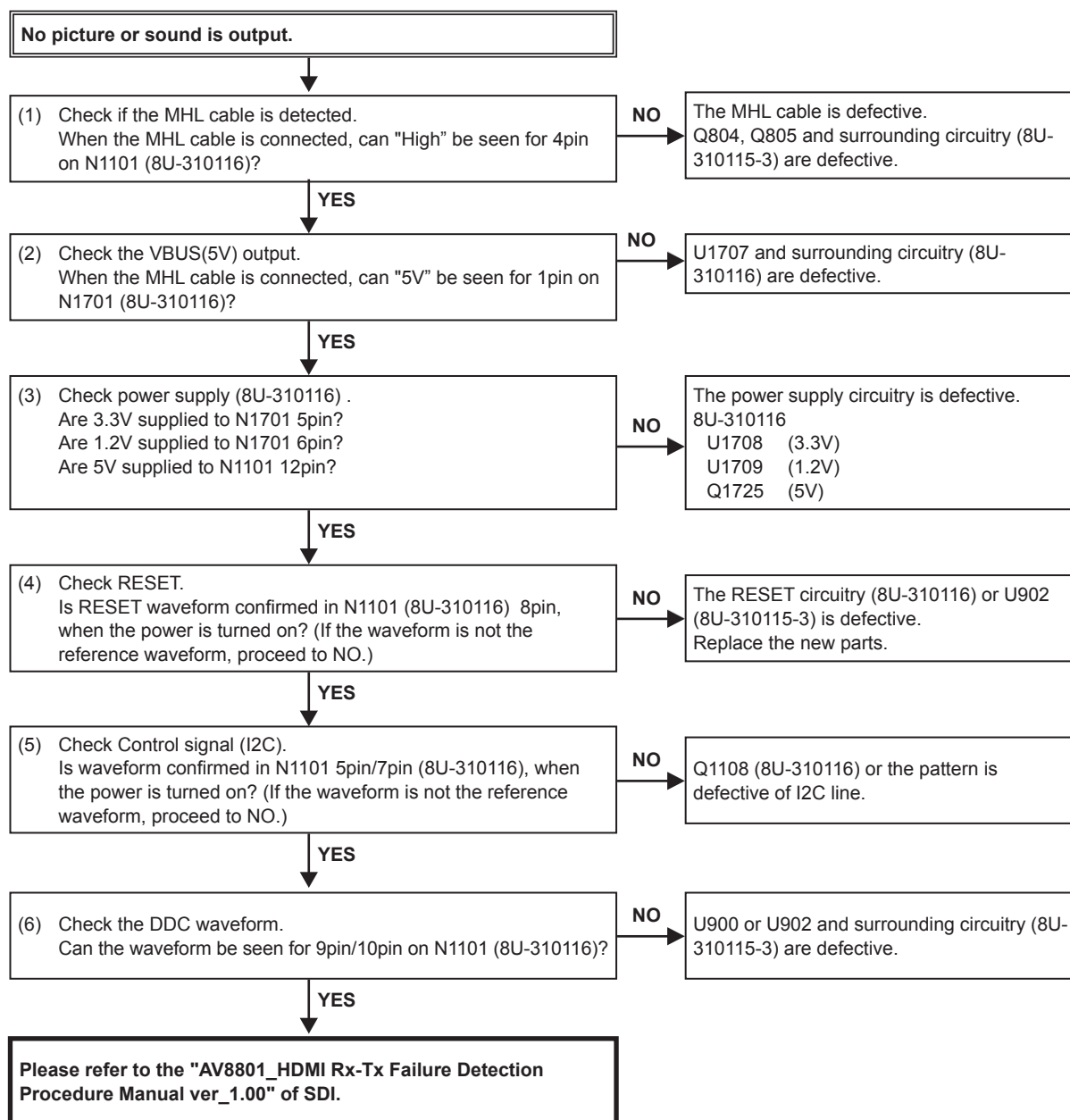
NO

U503 and surrounding circuitry is defective.

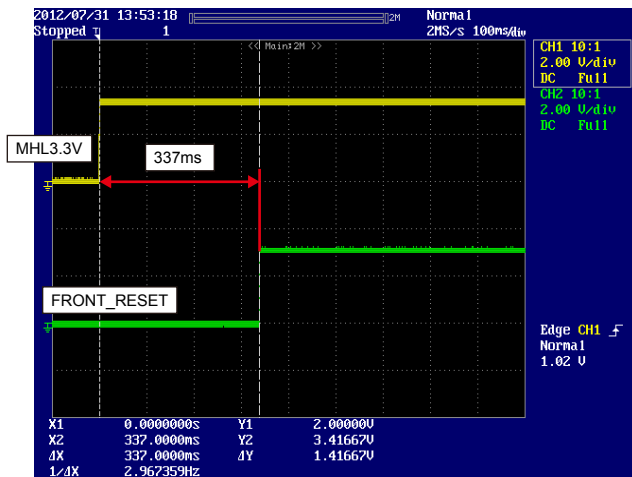
YES

Check the Digital audio circuit.

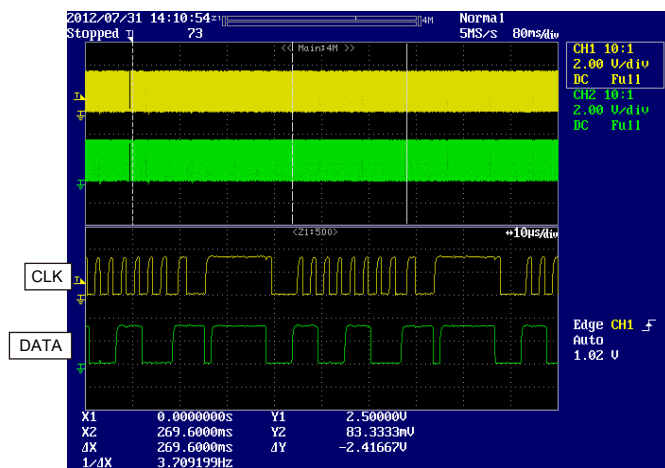
5.4. MHL



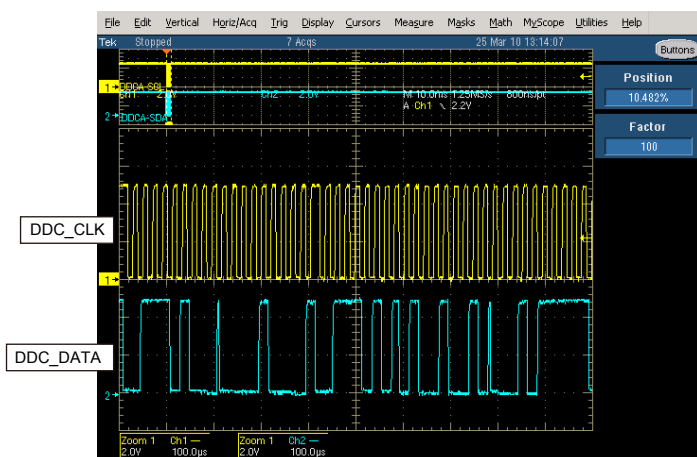
Timing waveform illustration from the start of MHL3.3V to when reset is released : Check items (4)



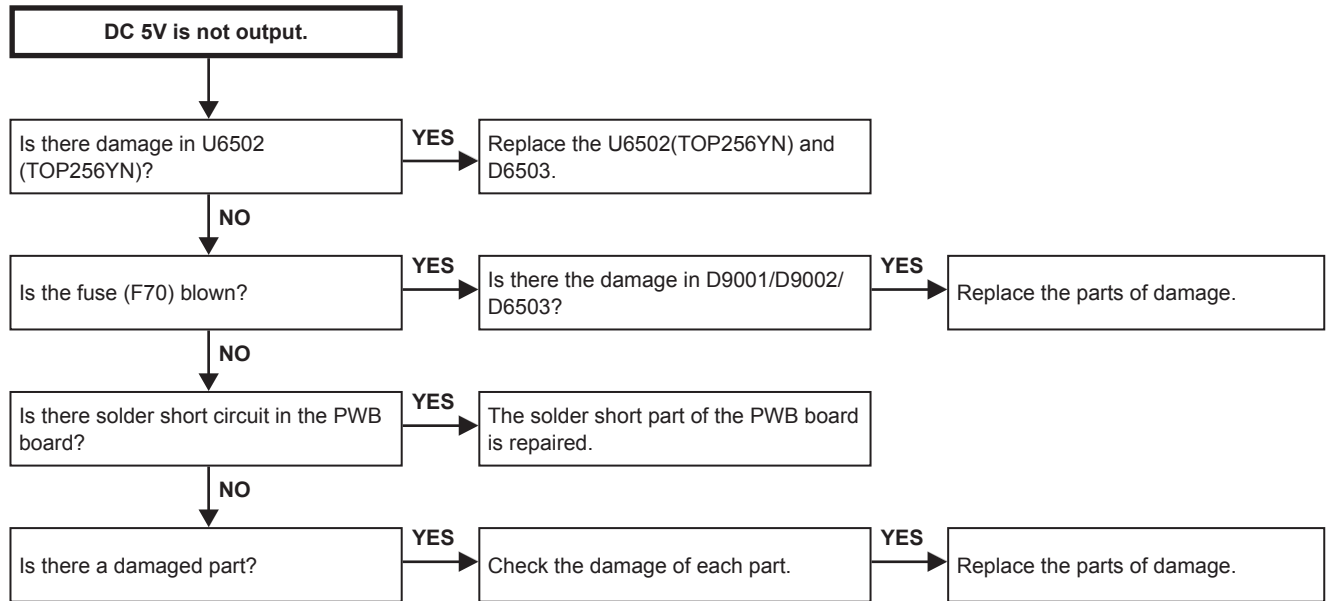
Controlled waveform(I2C), when power is turned on : Check items (5)



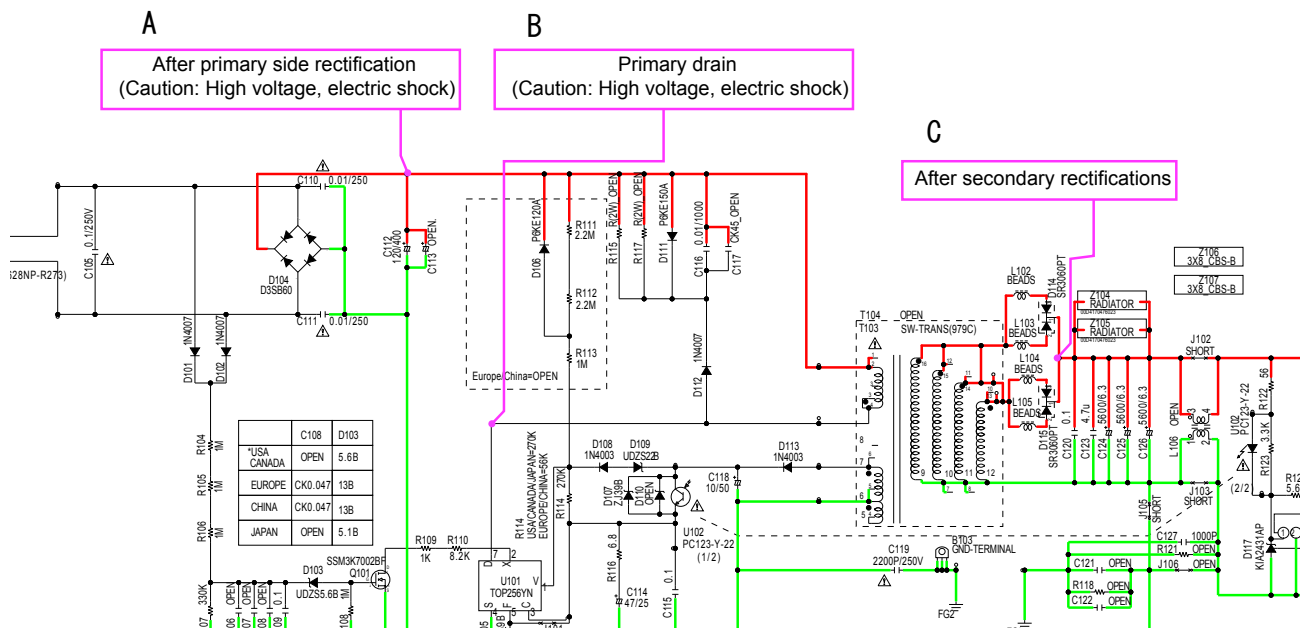
DDC waveform : Check items (6)



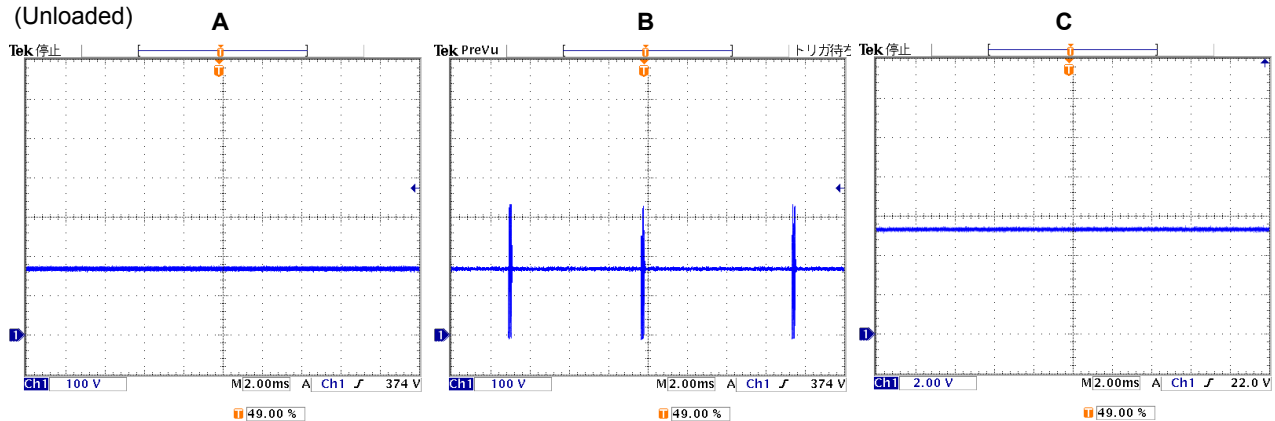
6. SMPS



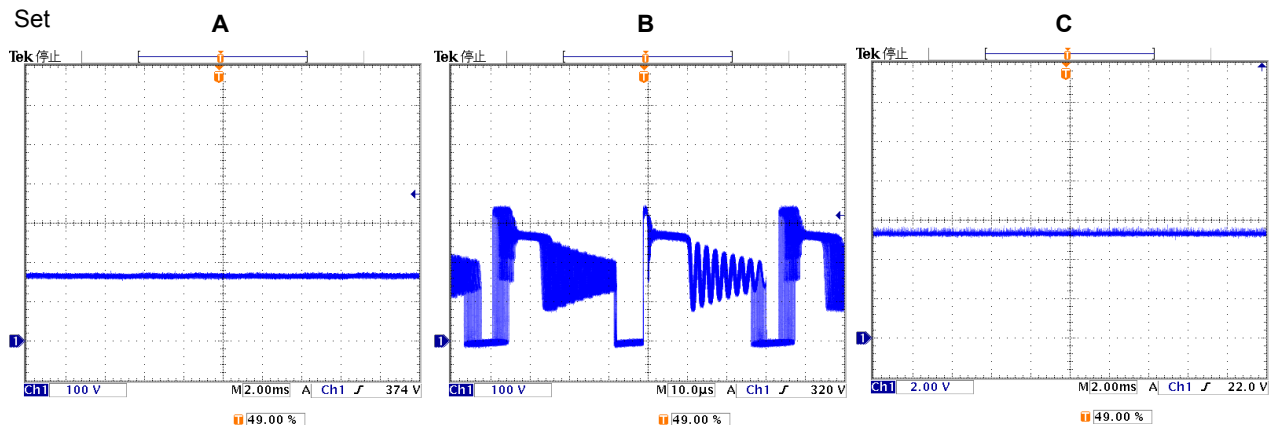
Operation waveform for each part



SMPS unit (Unloaded)

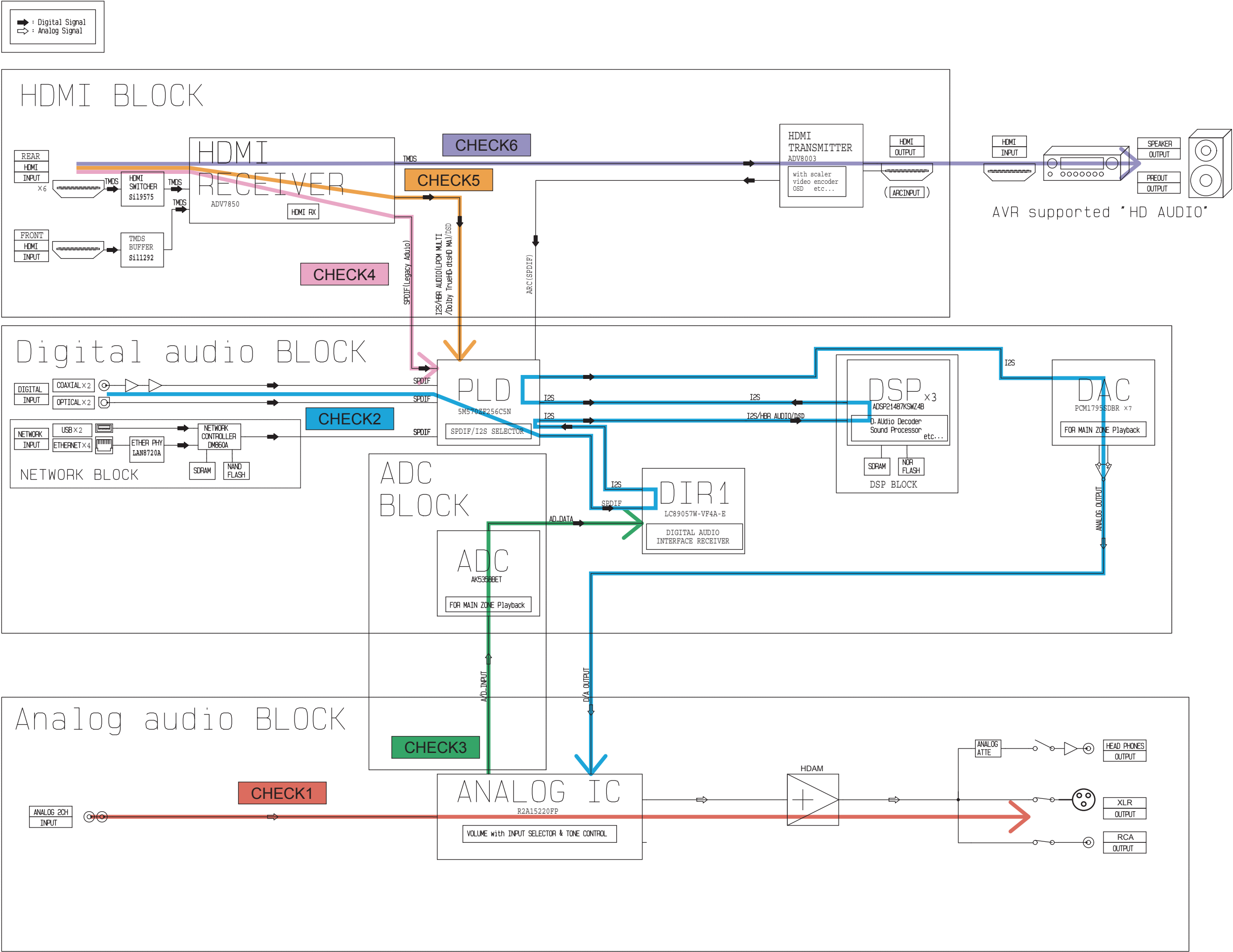


Set



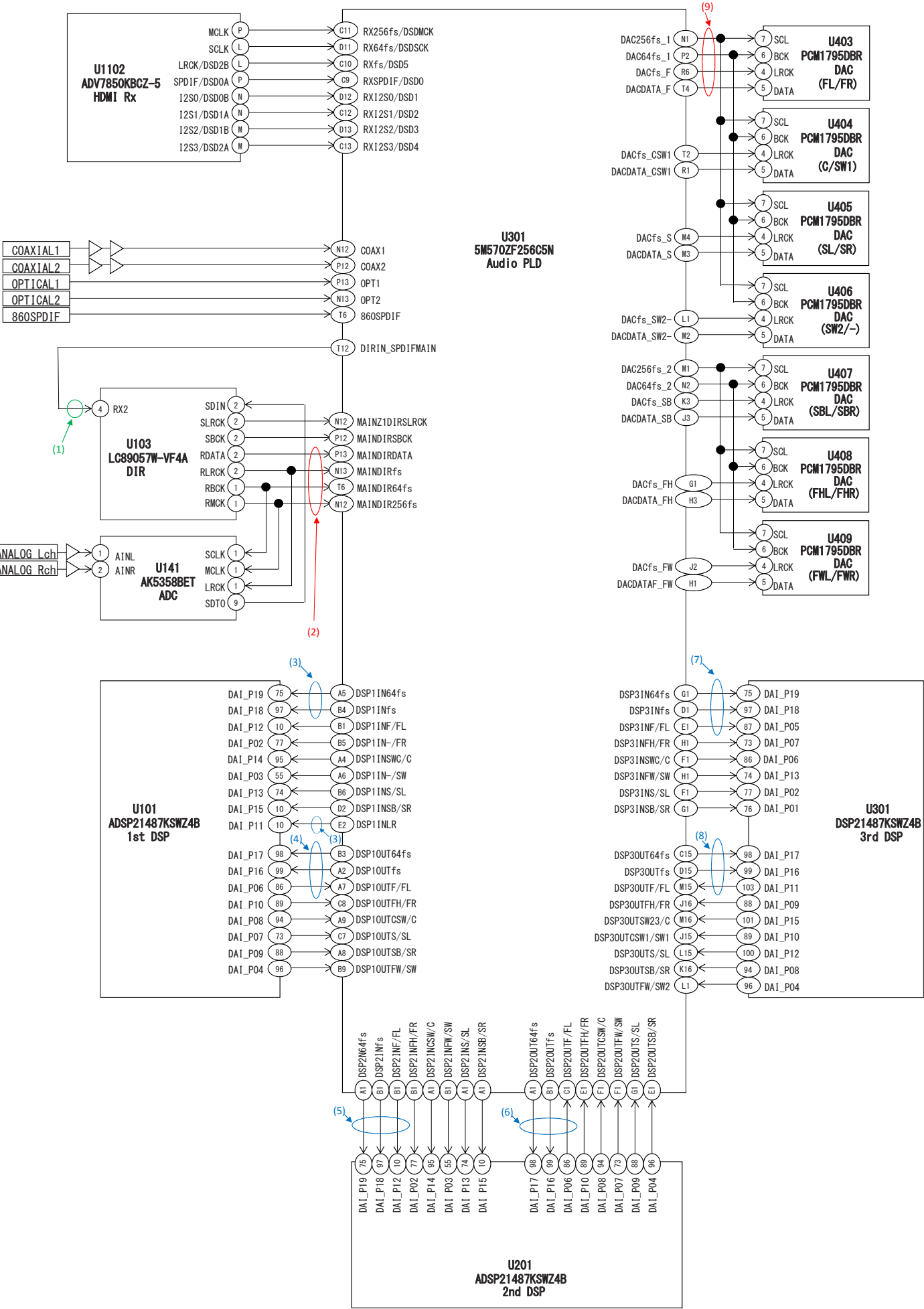
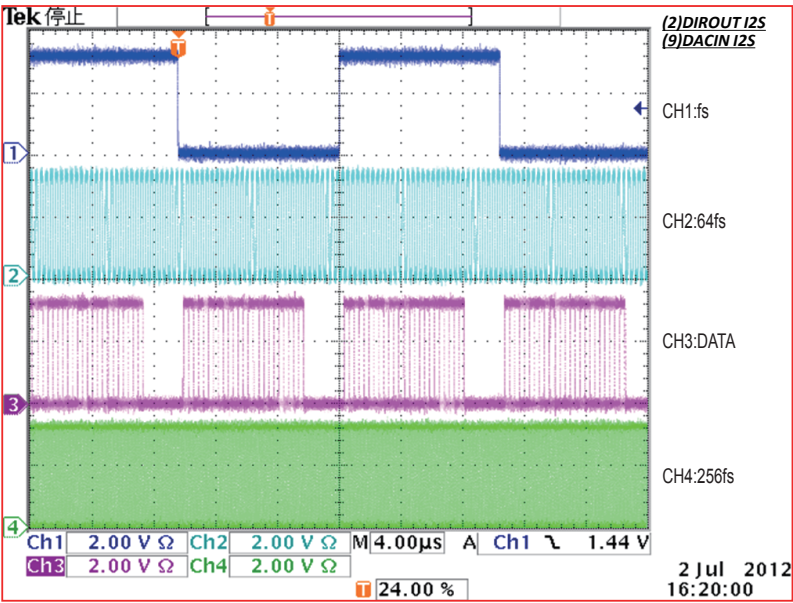
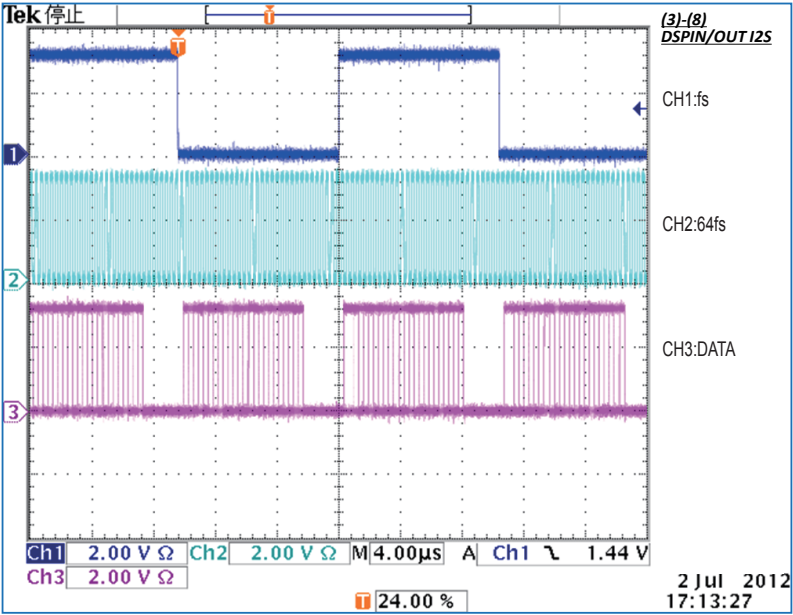
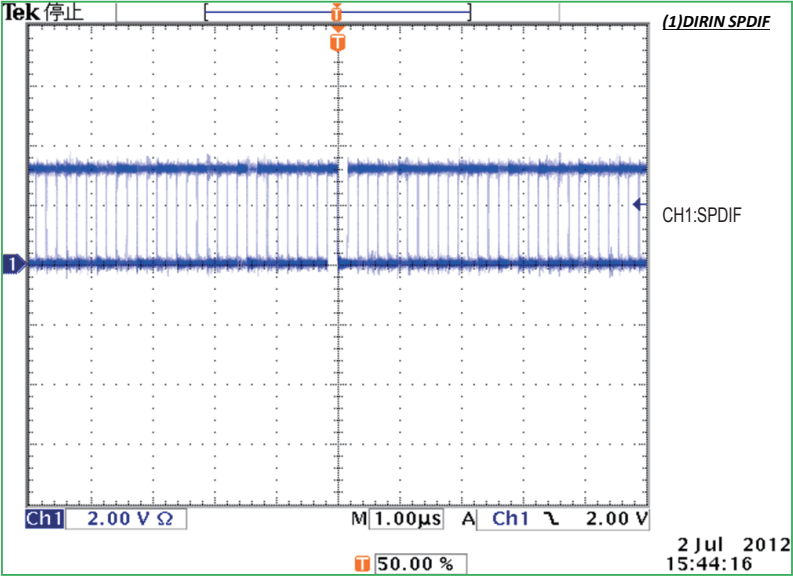
Audio Check PASS

Refer to troubleshooting "4.1. AUDIO CHECK"(110 page).



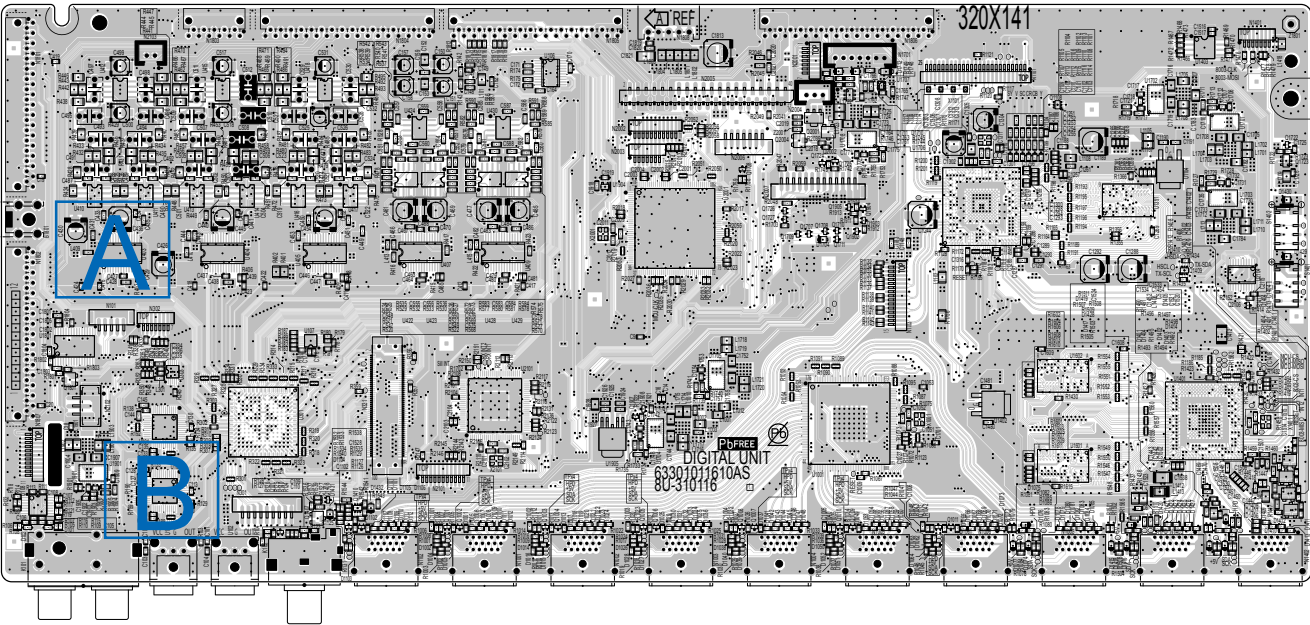
CLOCK FLOW & WAVE FORM IN DIGITAL BLOCK

WAVE FORM



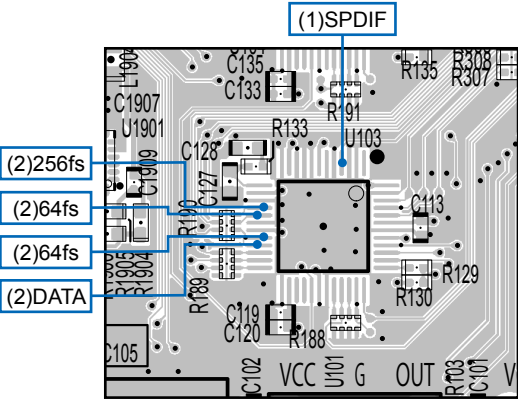
Test point

8U-310116 : DIGITAL (COMPONENT SIDE)



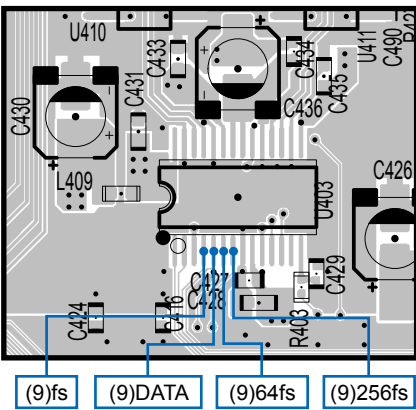
Detail A

(1),(2)DIR

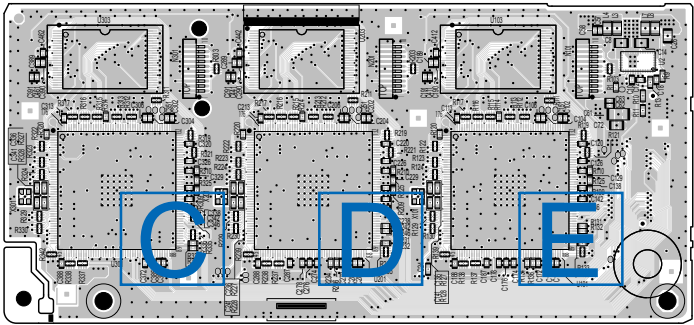


Detail B

(9)DAC

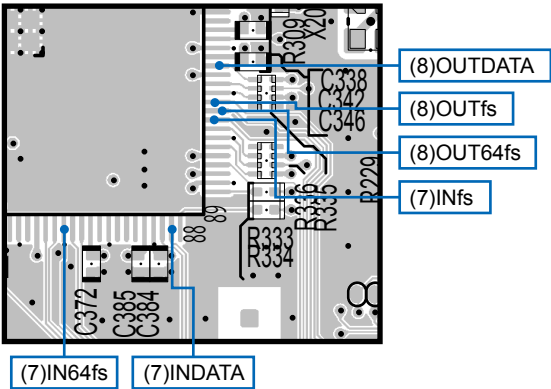


8U-310115:DSP (FOIL SIDE)



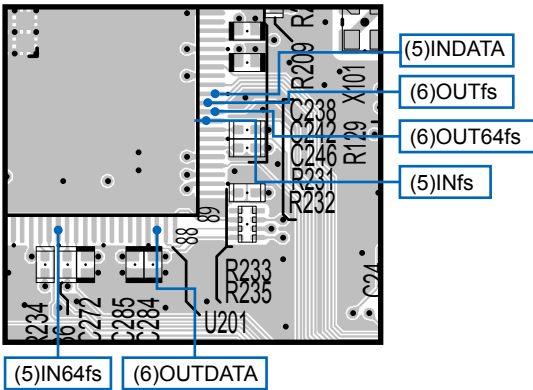
Detail C

(7),(8)3rd DSPIN/OUT



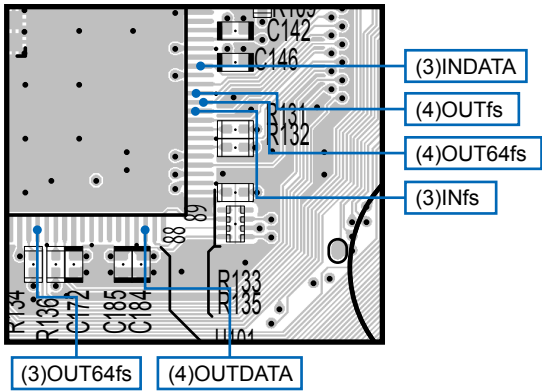
Detail D

(5),(6)2nd DSPIN/OUT



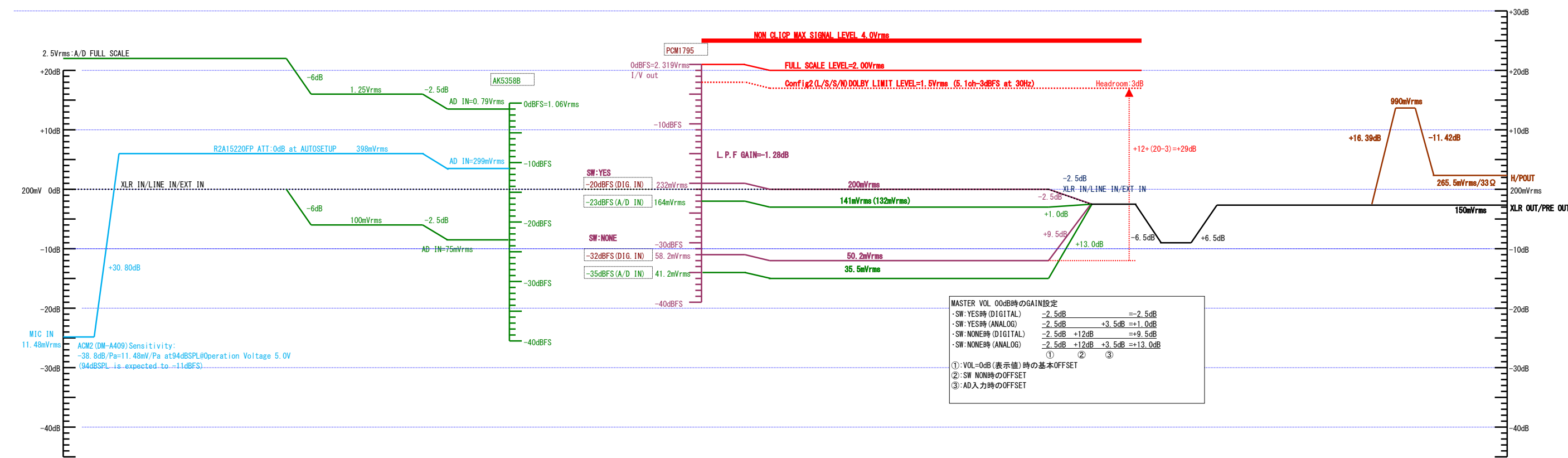
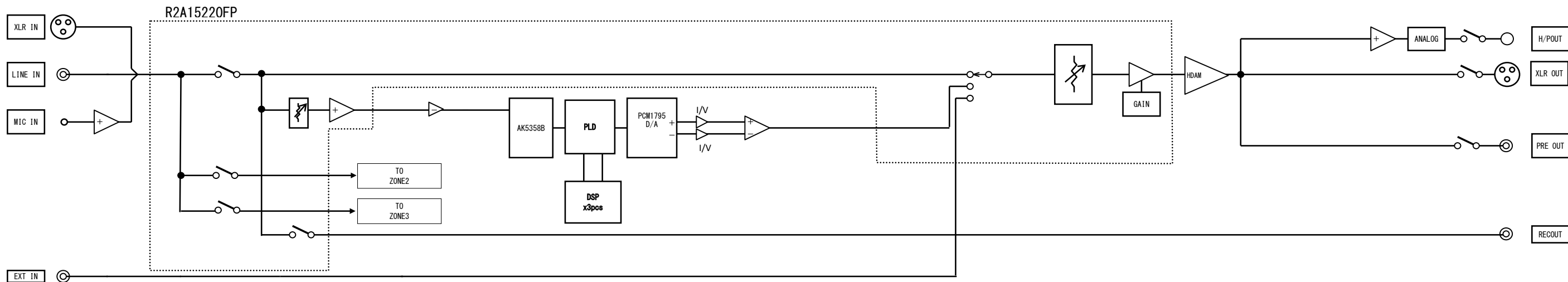
Detail E

(3),(4)1st DSPIN/OUT

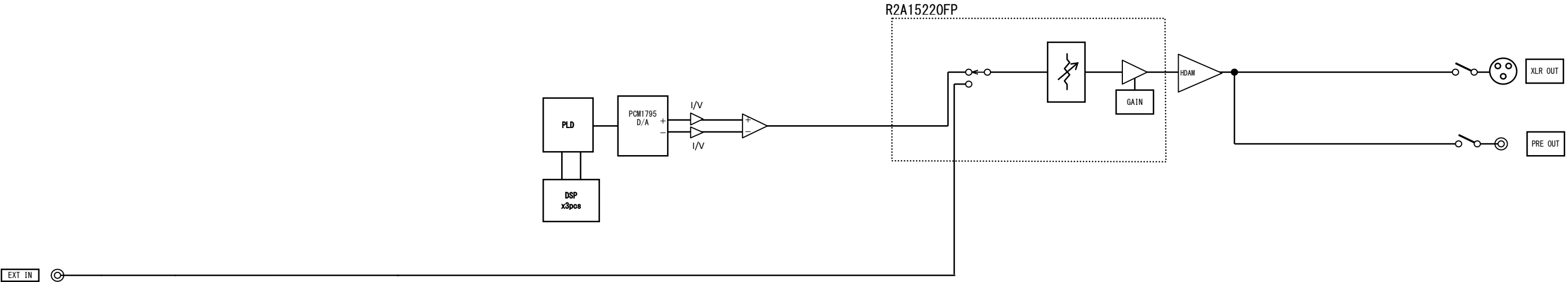


LEVEL DIAGRAM

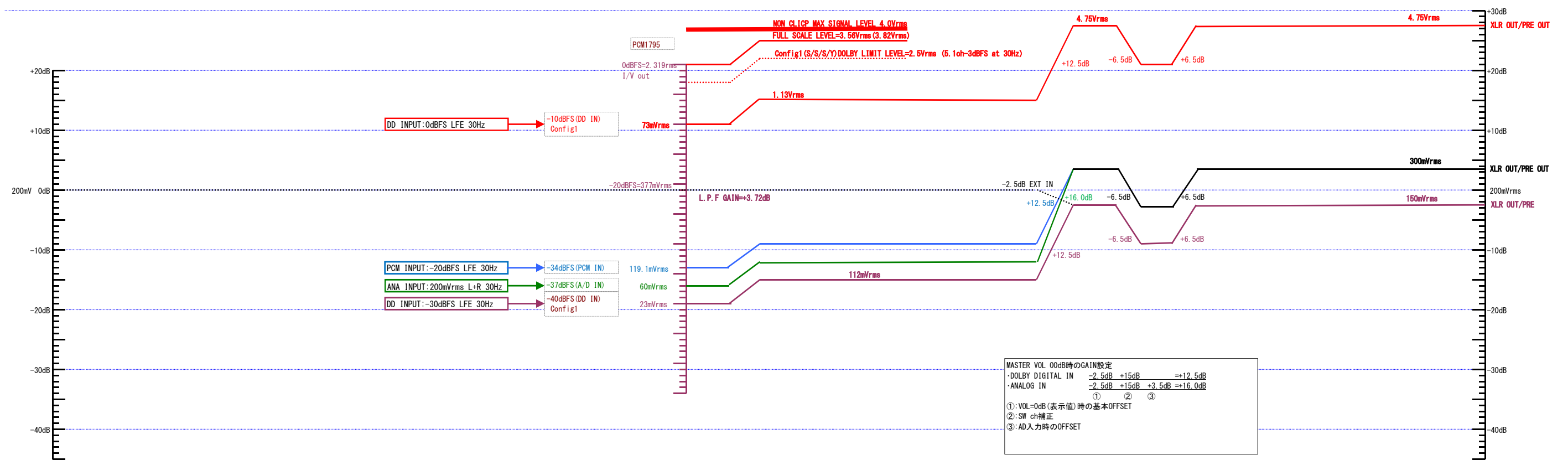
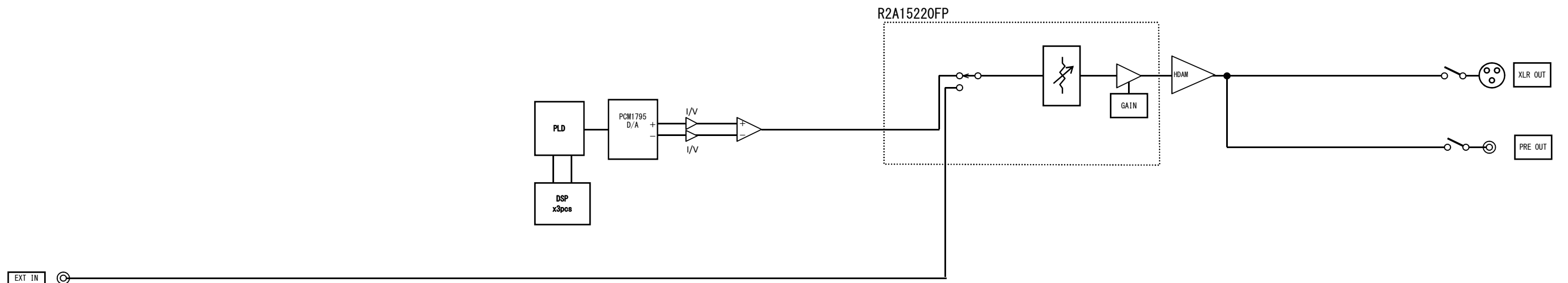
AV8801
LEVEL DIAGRAM
FRONT ch



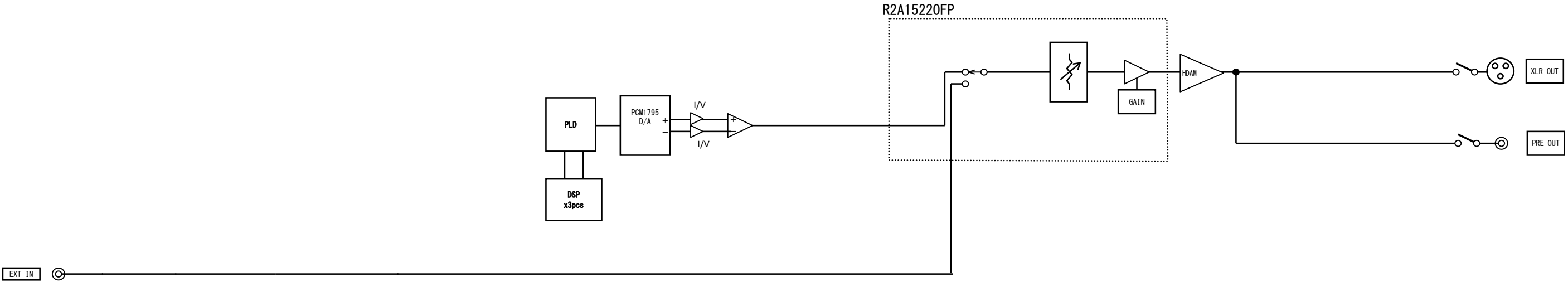
AV8801
LEVEL DIAGRAM
CENTER ch



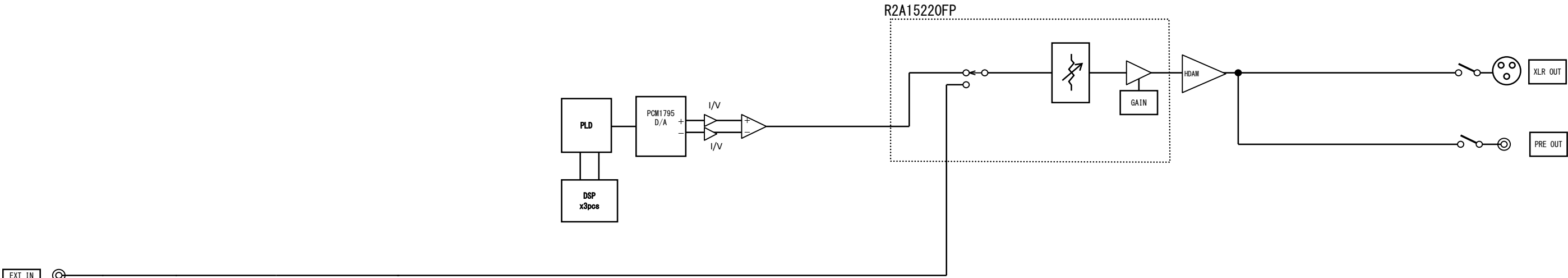
AV8801
LEVEL DIAGRAM
SUBWOOFER ch



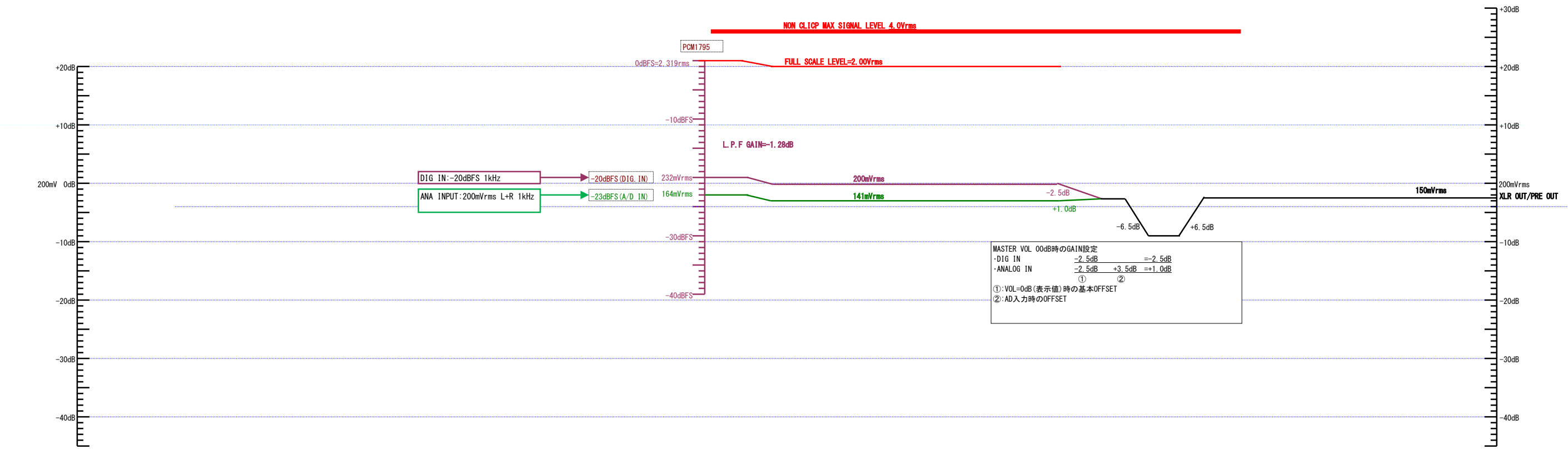
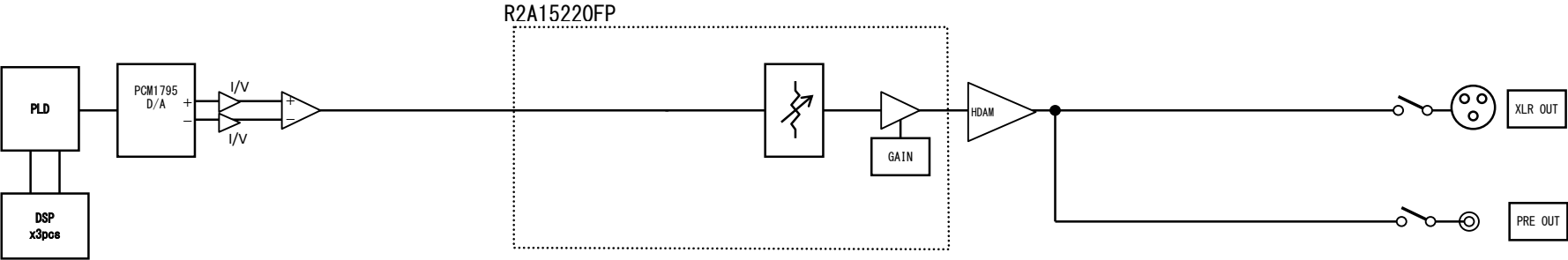
AV8801
LEVEL DIAGRAM
SURROUND ch



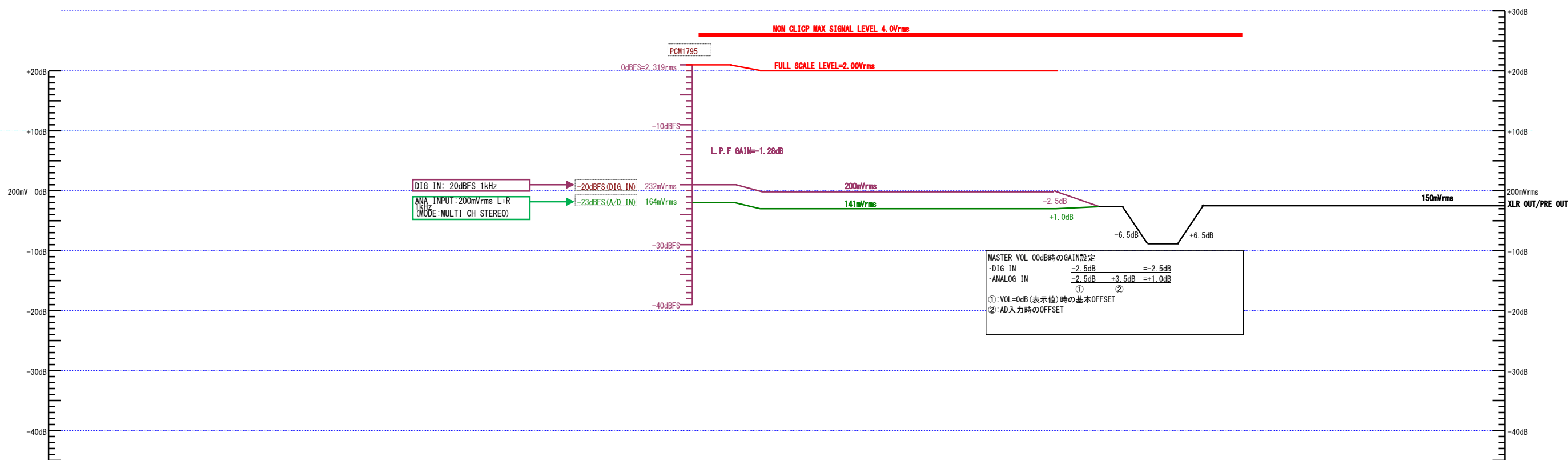
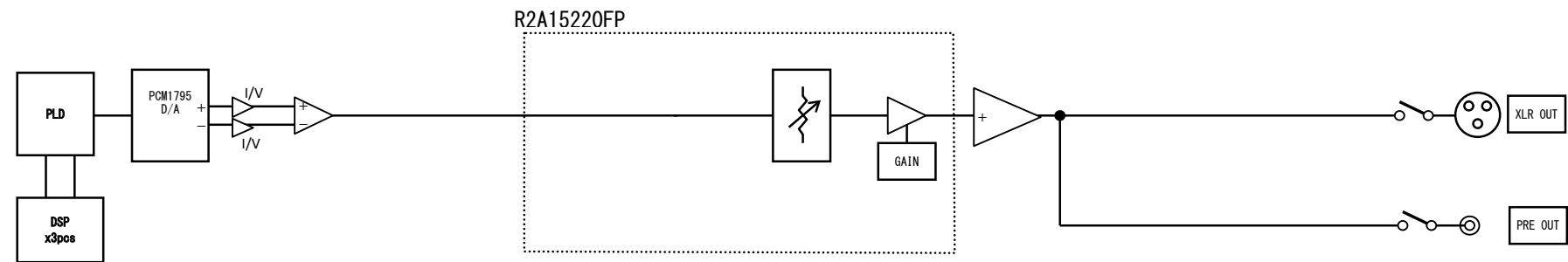
AVR8801
LEVEL DIAGRAM
SURR.BACK ch



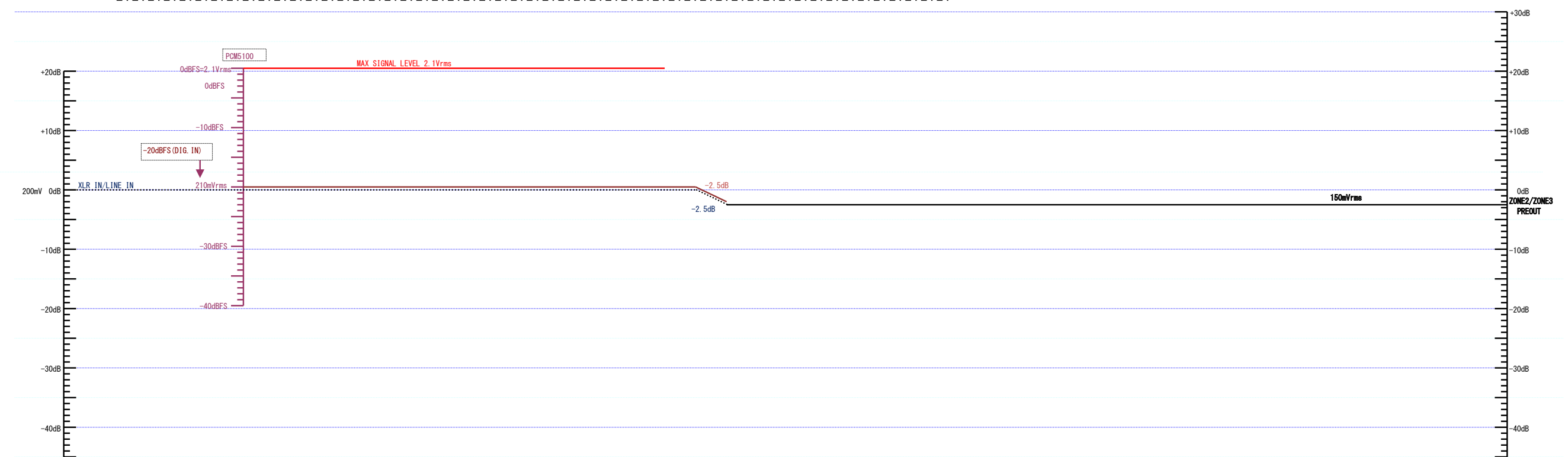
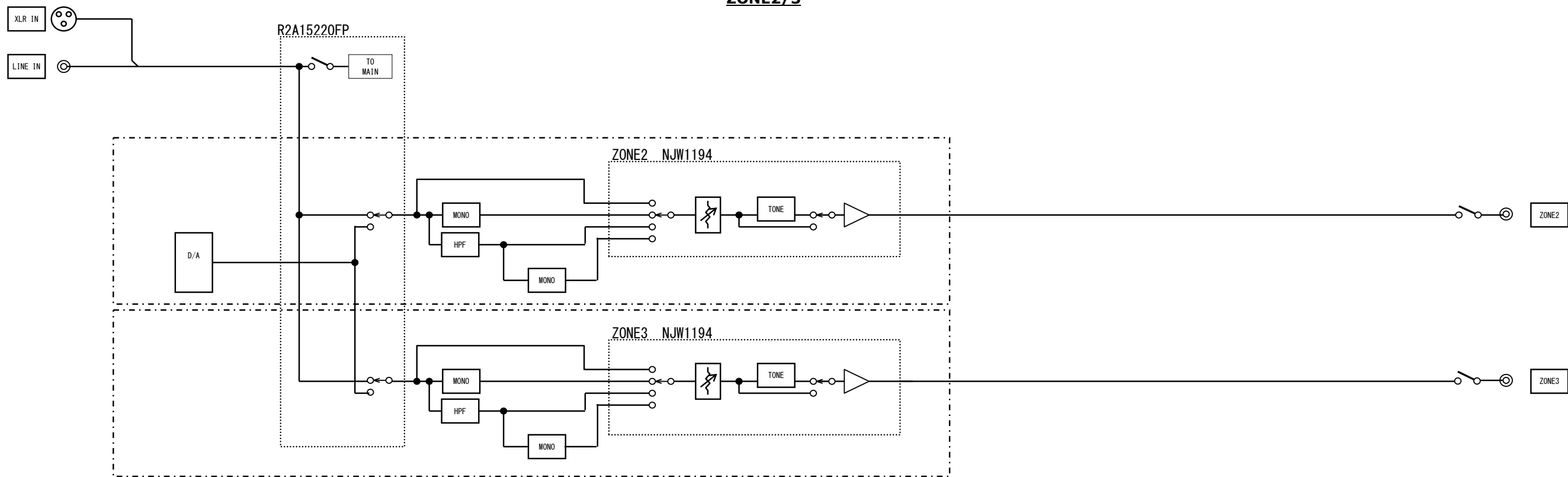
AV8801
LEVEL DIAGRAM
FRONT HEIGHT ch



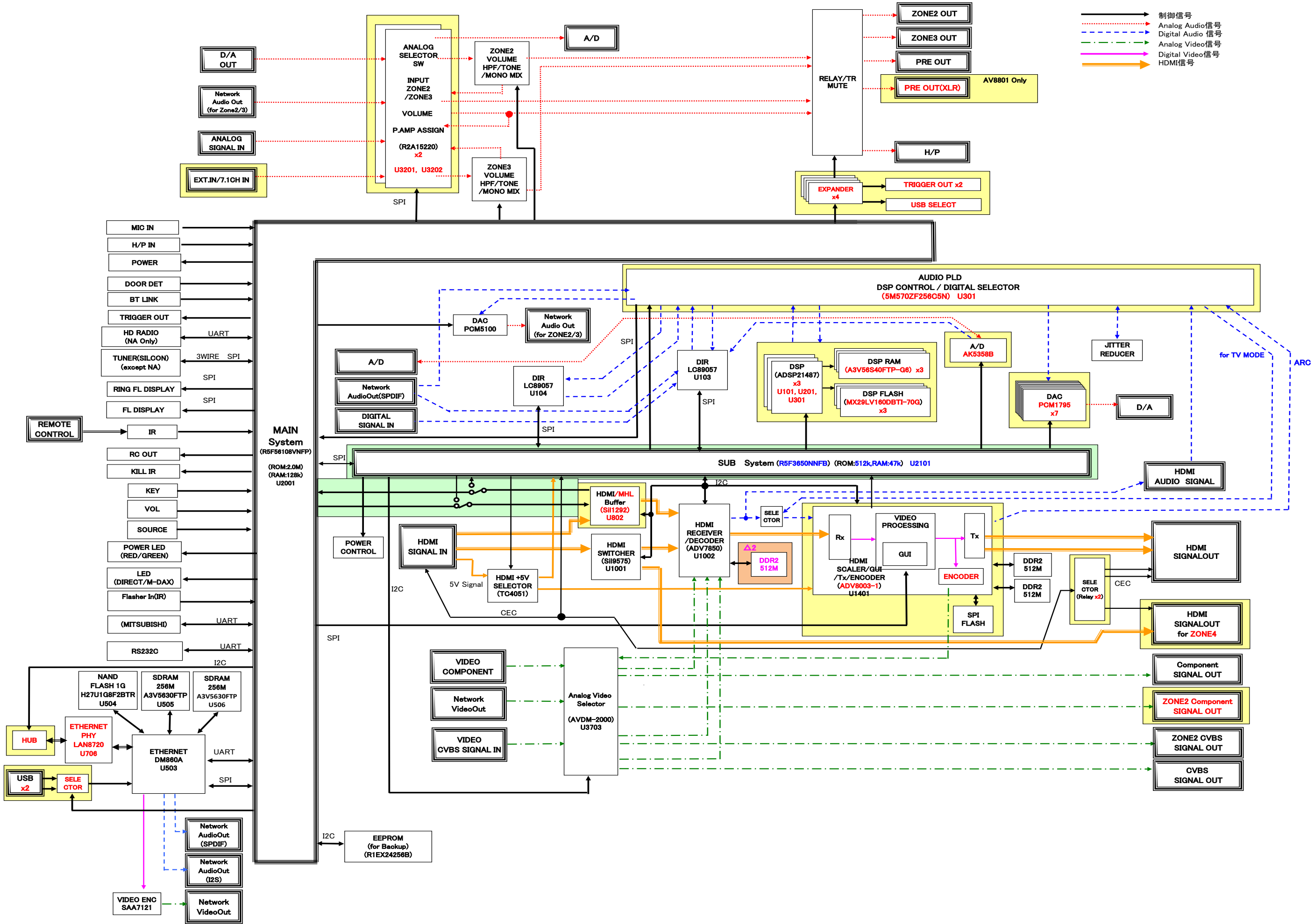
AV8801
LEVEL DIAGRAM
FRONT WIDE ch



AV8801
LEVEL DIAGRAM
ZONE2/3



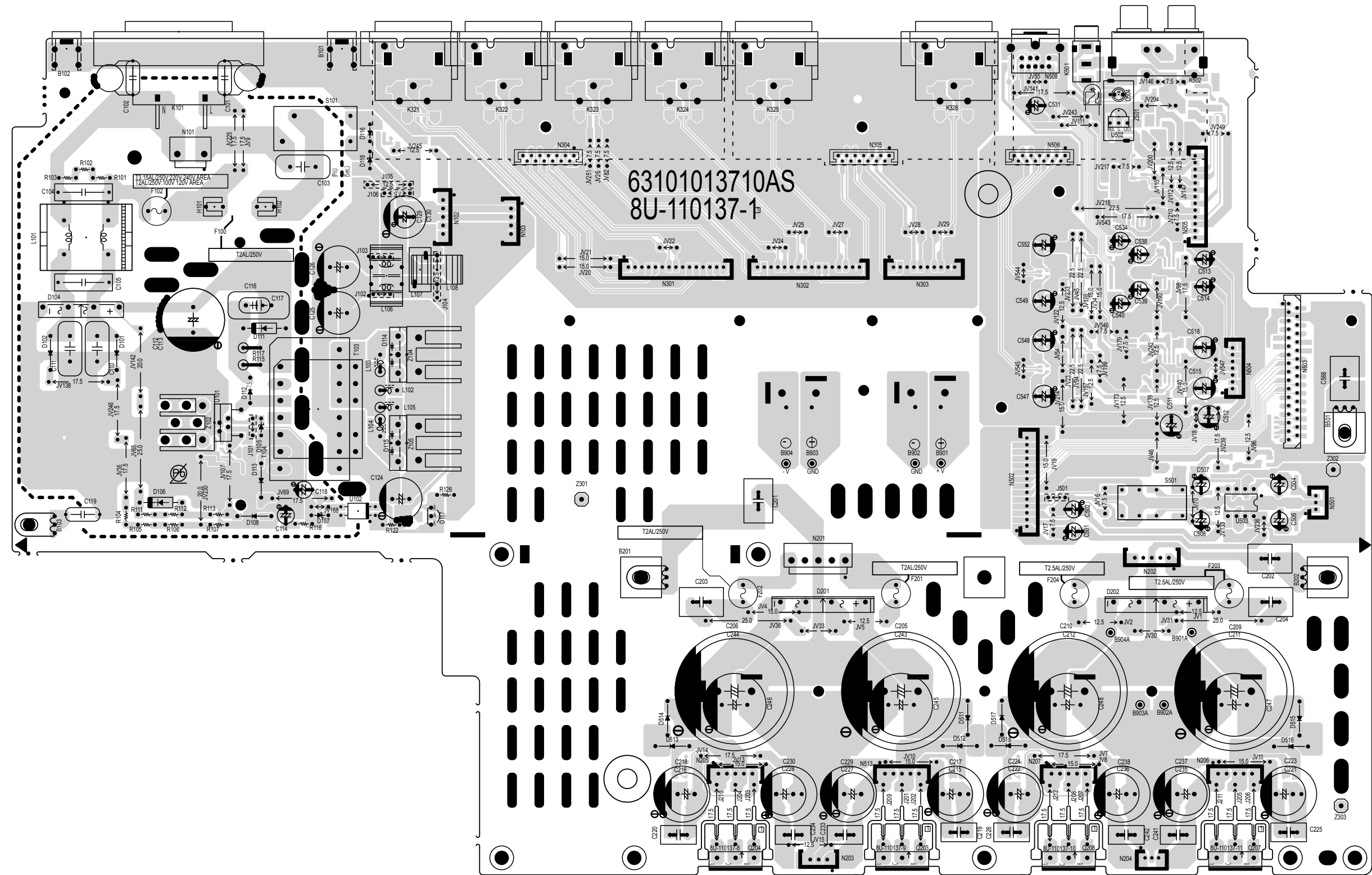
CPU CONTROL BLOCK DIAGRAM



PRINTED WIRING BOARDS

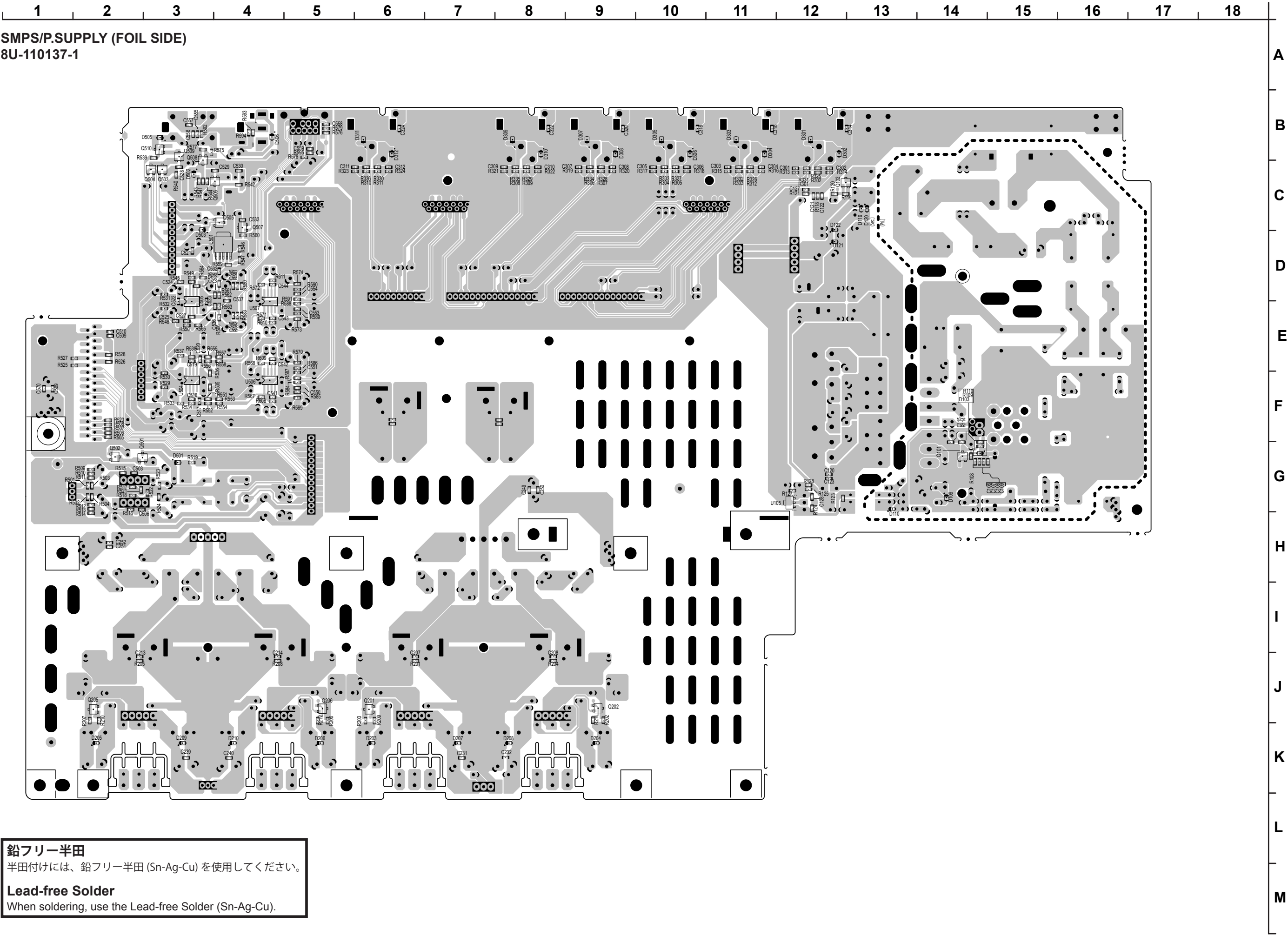
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----

SMPS/P.SUPPLY (COMPONENT SIDE)
8U-110137-1



鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

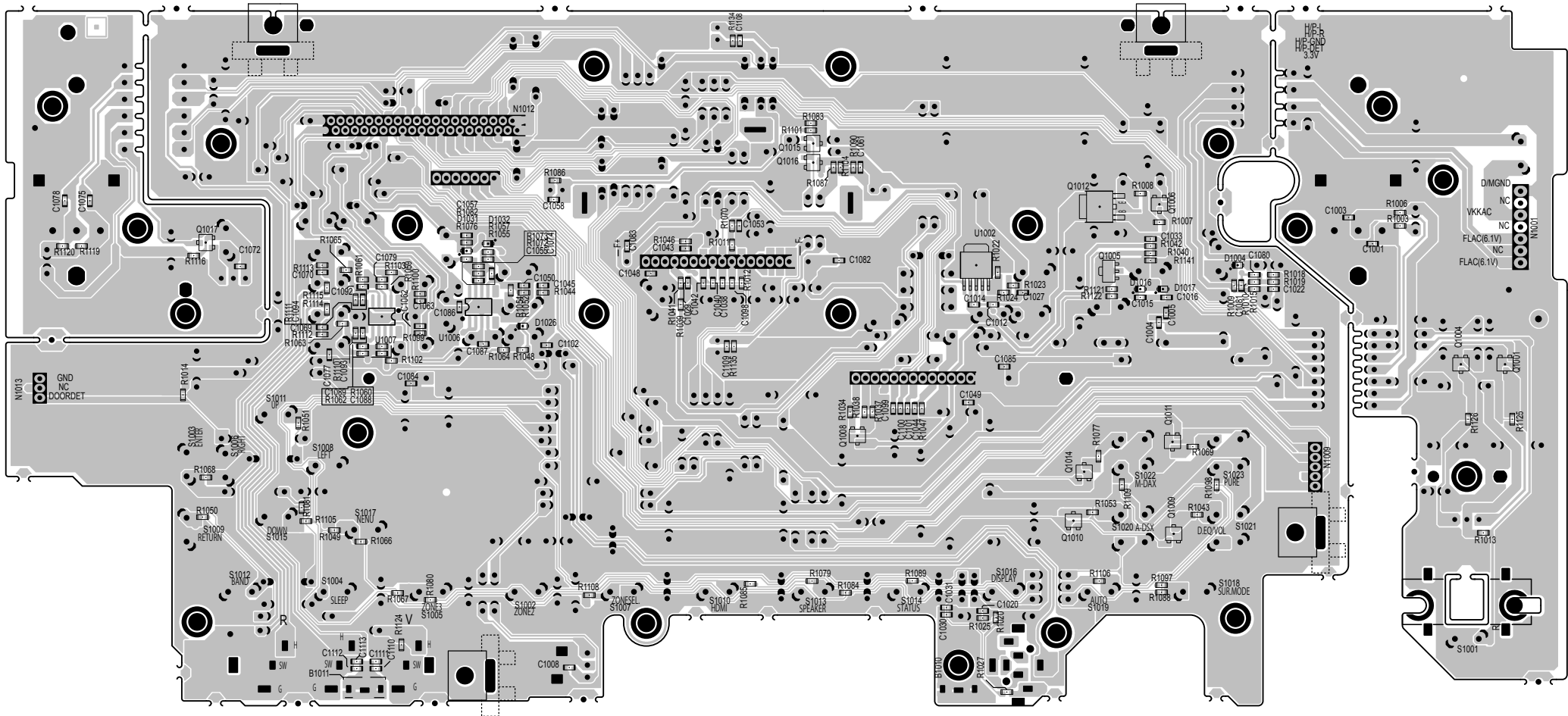


鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

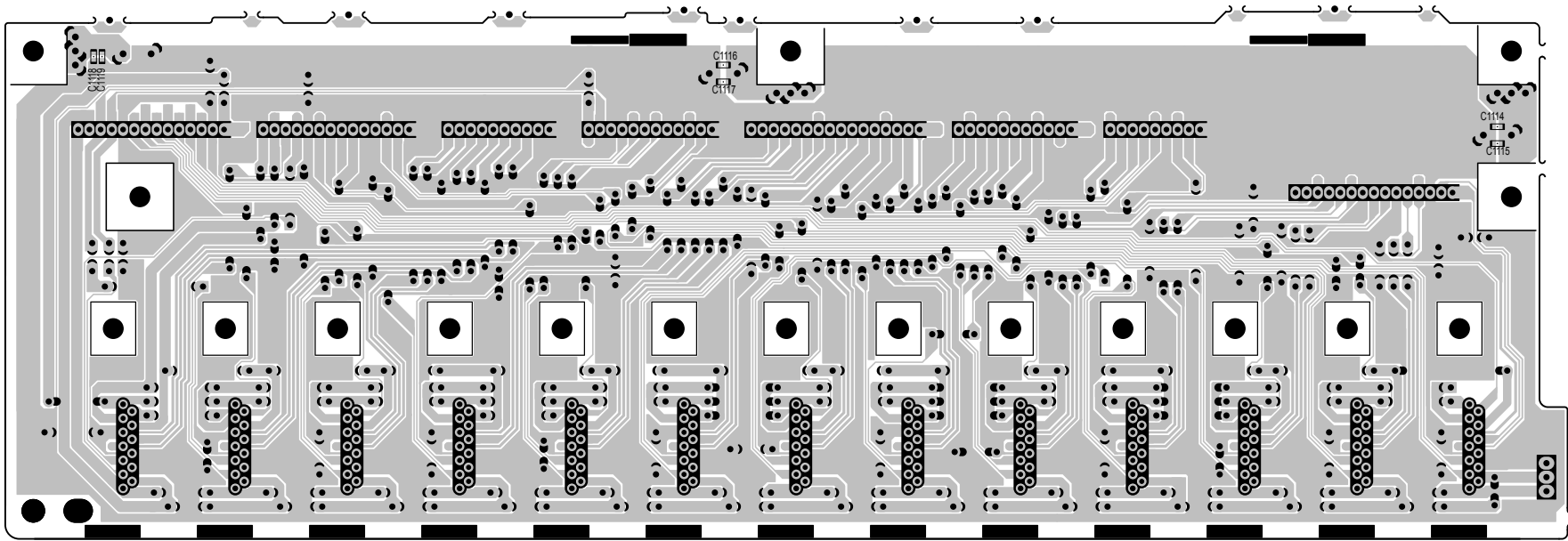
Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

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FRONT (FOIL SIDE)
8U-110138-1,2,3

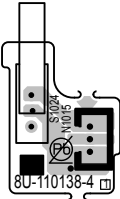
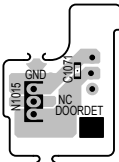
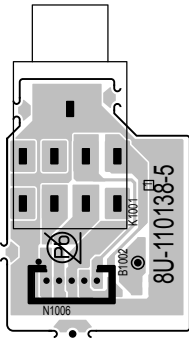
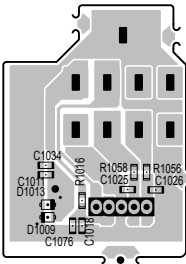
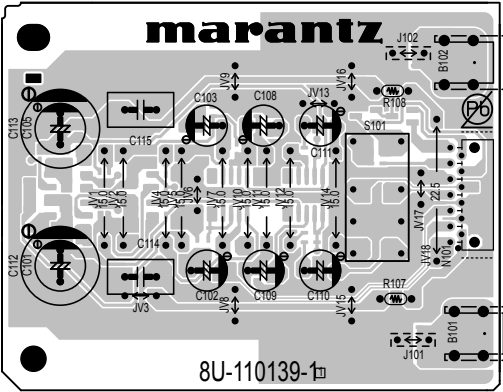
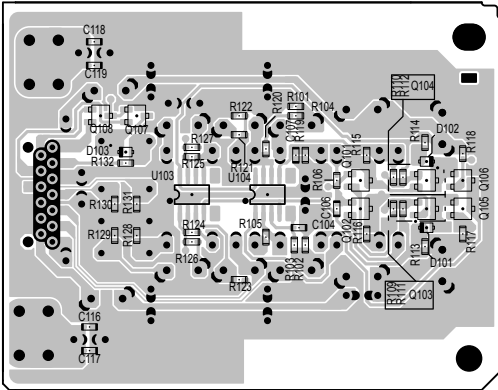
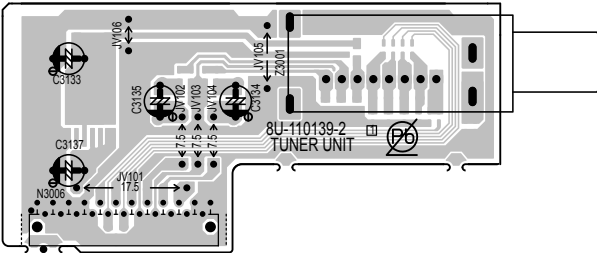
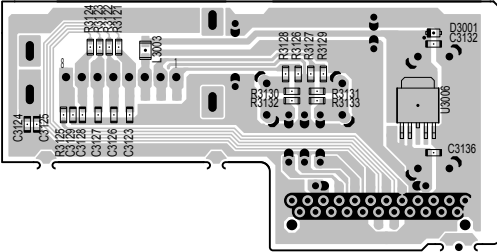
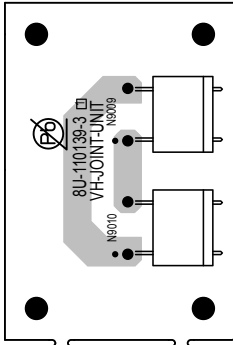
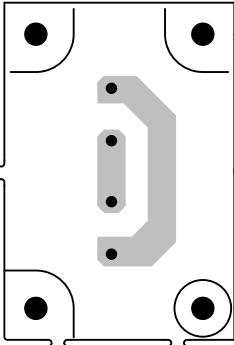
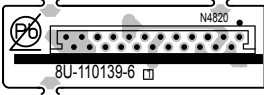
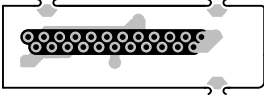


HDAM_CONNECT (FOIL SIDE)
8U-110138-6



鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

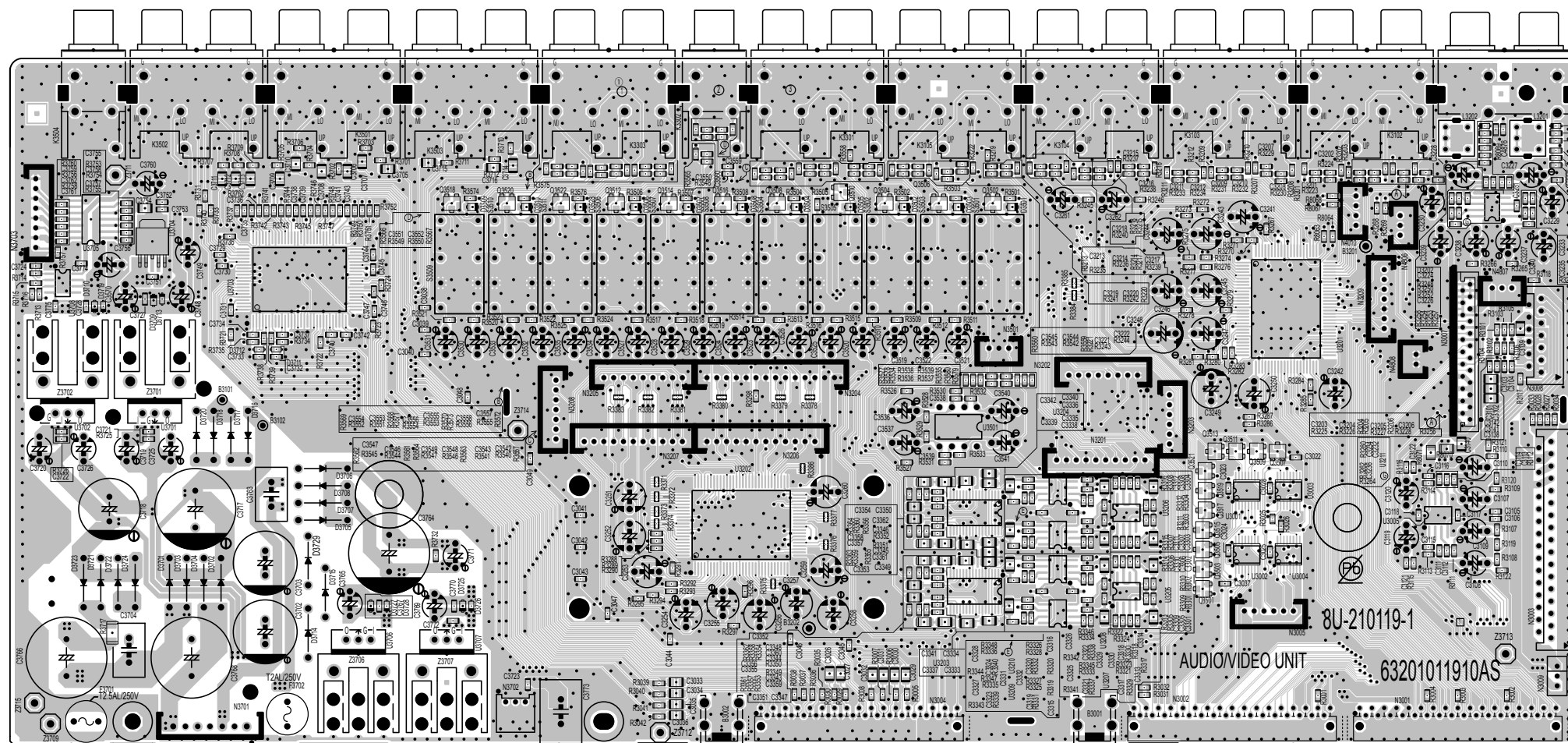
Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
DOOR SW (COMPONENT SIDE) 8U-110138-4		DOOR SW (FOIL SIDE) 8U-110138-4		H/P (COMPONENT SIDE) 8U-110138-5		H/P (FOIL SIDE) 8U-110138-5												A
																		B
																		C
HDAM/XLR-AMP (COMPONENT SIDE) 8U-110139-1		HDAM/XLR-AMP (FOIL SIDE) 8U-110139-1		TUNER (COMPONENT SIDE) 8U-110139-2		TUNER (FOIL SIDE) 8U-110139-2												D
																		E
																		F
VH_JOINT (COMPONENT SIDE) 8U-110139-3		VH_JOINT (FOIL SIDE) 8U-110139-3		BRIGDE (COMPONENT SIDE) 8U-110139-6		BRIGDE (FOIL SIDE) 8U-110139-6												G
																		H
																		I
																		J
																		K
																		L
																		M

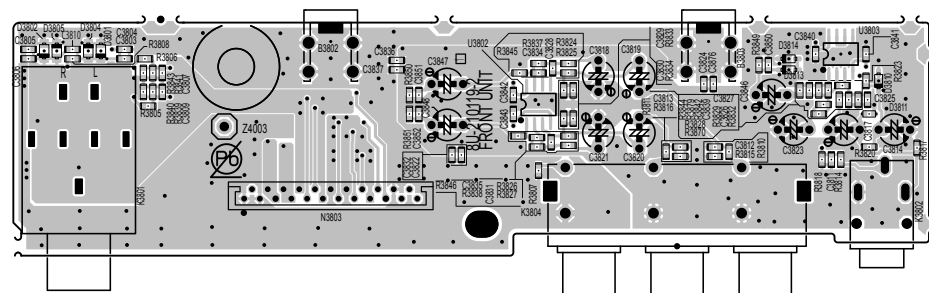
鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

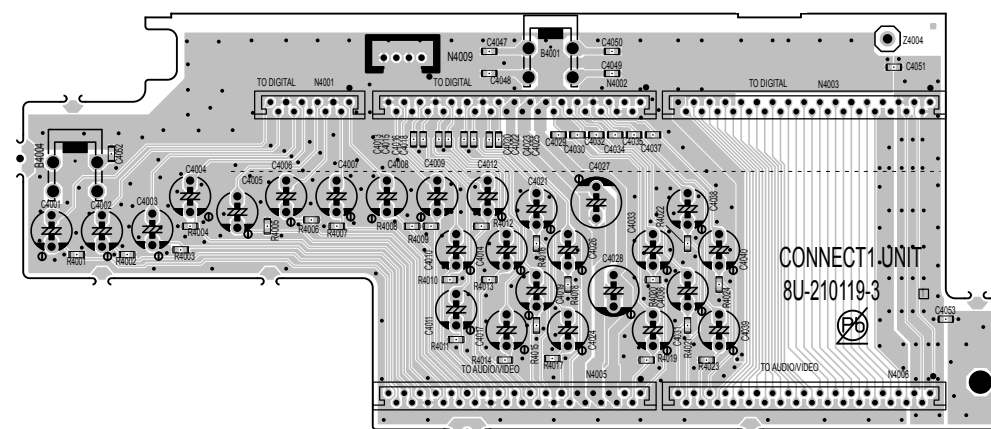
AUDIO/VIDEO (COMPONENT SIDE)
8U-210119-1



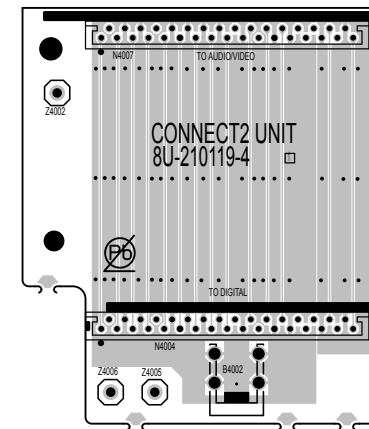
FRONT (COMPONENT SIDE)
8U-210119-2



CONNECT1 (COMPONENT SIDE)
8U-210119-3



CONNECT2 (COMPONENT SIDE)
8U-210119-4

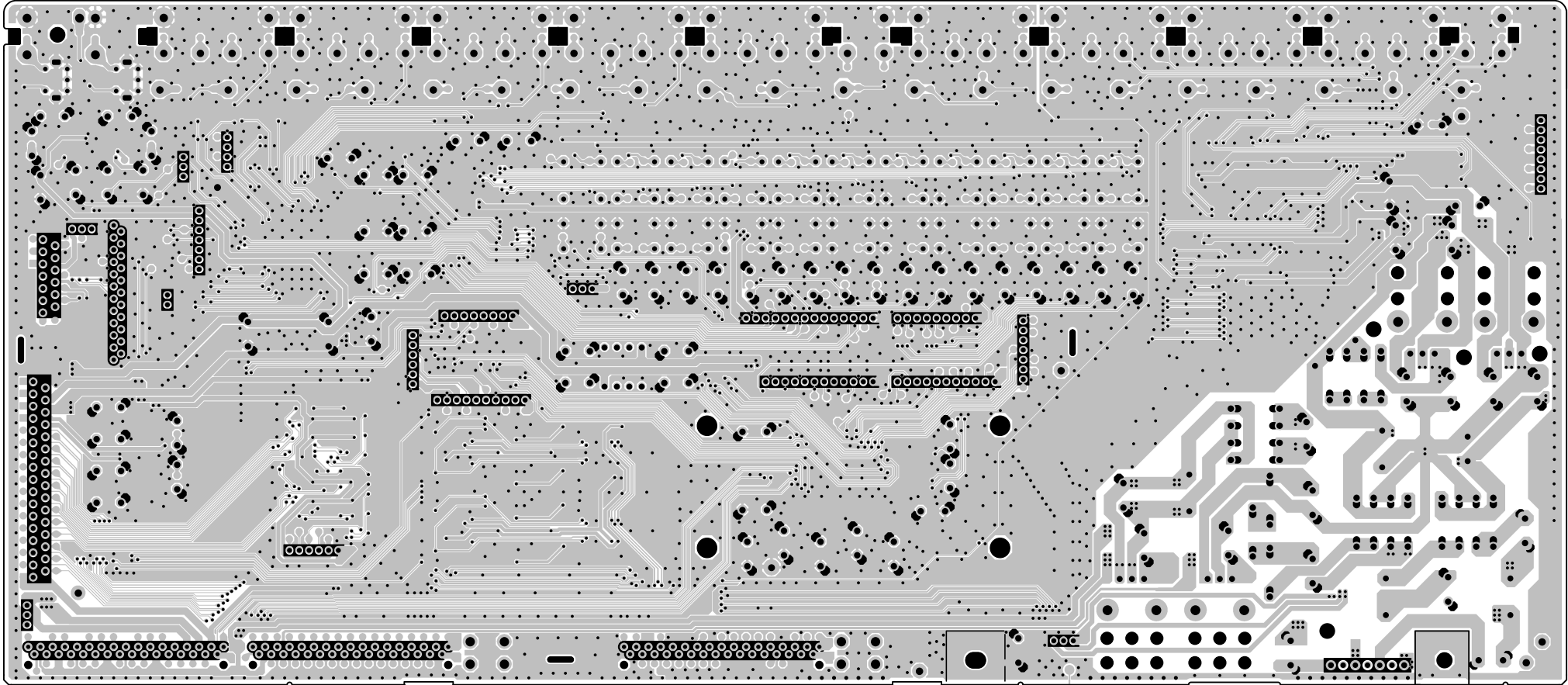


鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

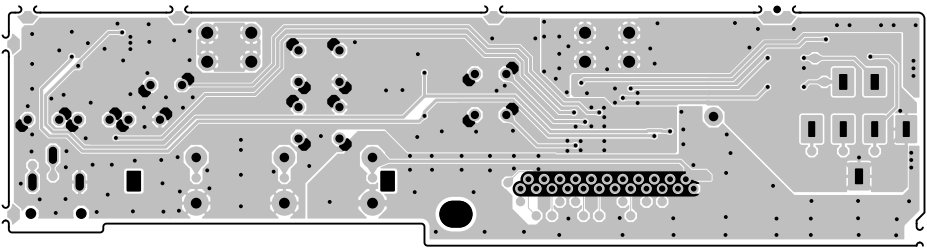
Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

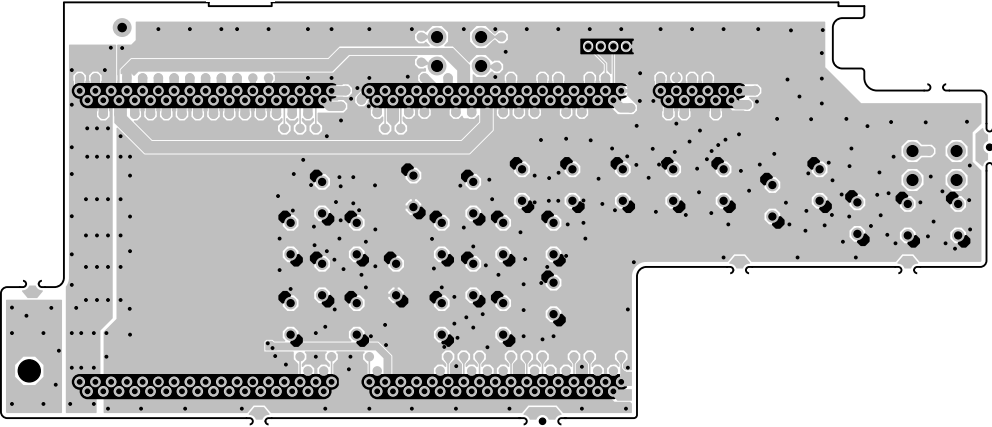
AUDIO/VIDEO (FOIL SIDE)
8U-210119-1



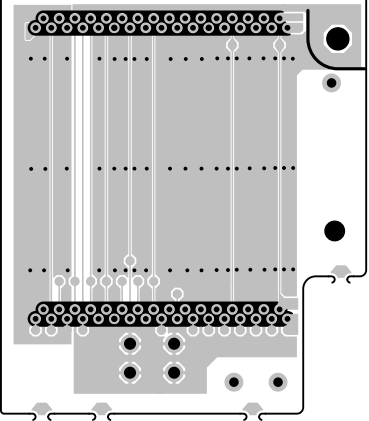
FRONT (FOIL SIDE)
8U-210119-2



CONNECT1 (FOIL SIDE)
8U-210119-3



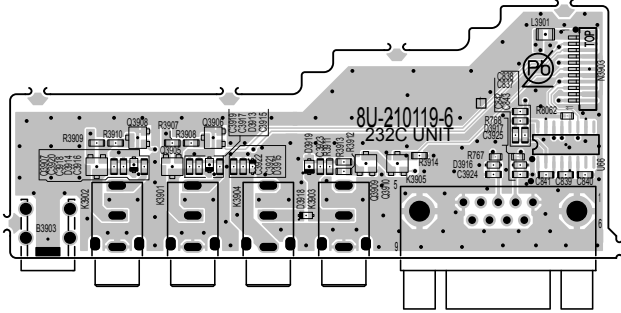
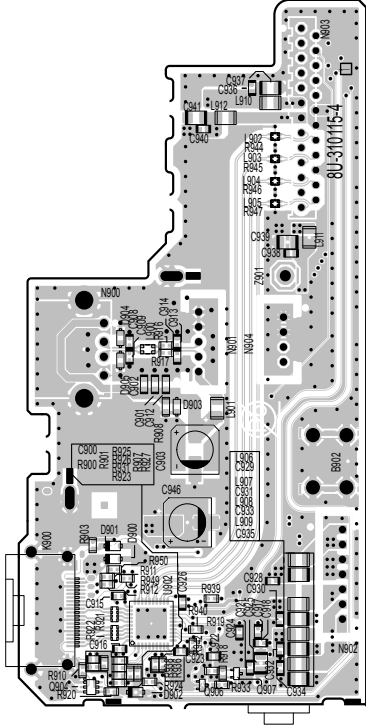
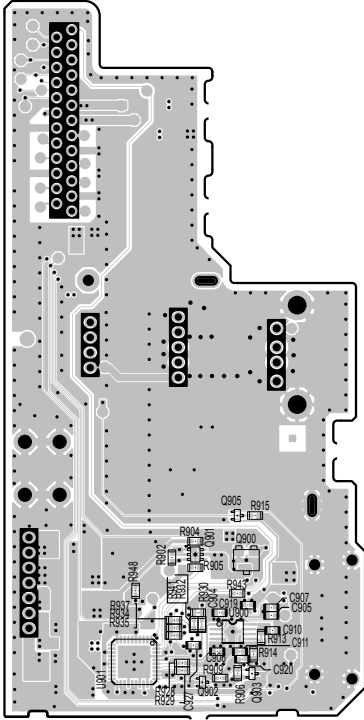
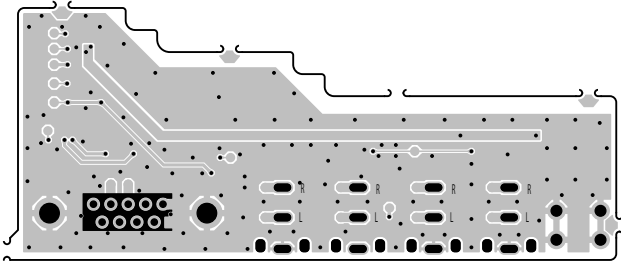
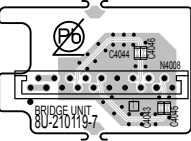
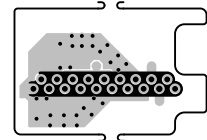
CONNECT2 (FOIL SIDE)
8U-210119-4



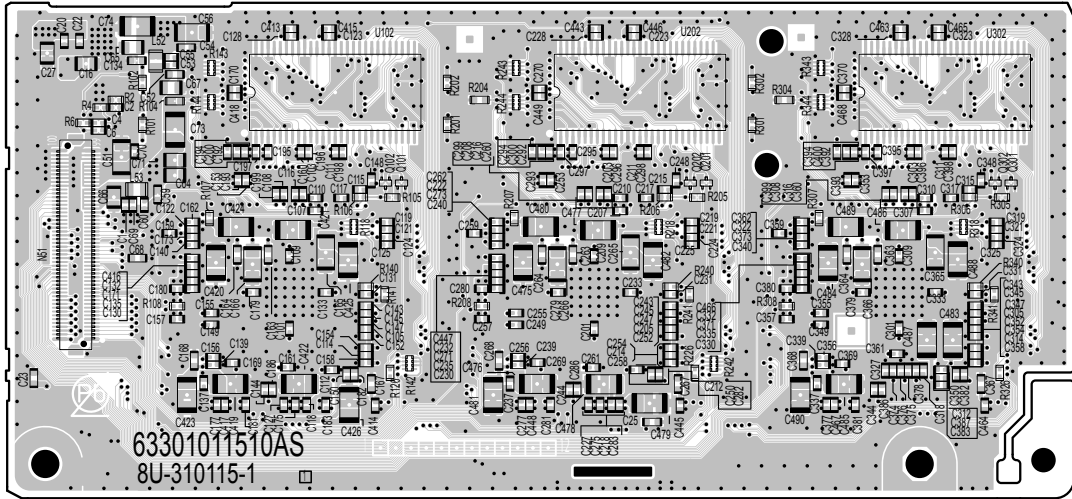
鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

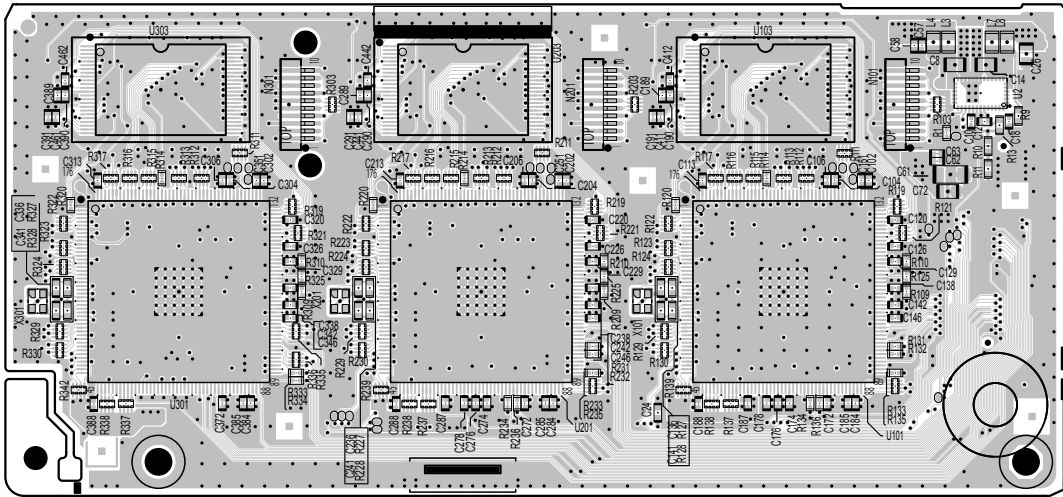
A
B
C
D
E
F
G
H
I
J
K
L
M

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
232C (COMPONENT SIDE) 8U-210119-6 				FRONT HDMI USB (COMPONENT SIDE) 8U-310115-4 				FRONT HDMI USB (FOIL SIDE) 8U-310115-4 										A
232C (FHL) (FOIL SIDE) 8U-210119-6 																		B
																		C
																		D
																		E
																		F
																		G
BRIDGE (COMPONENT SIDE) 8U-210119-7 																		H
BRIDGE (FOIL SIDE) 8U-210119-7 																		I
																		J
																		K
																		L
鉛フリー半田 半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。																		M
Lead-free Solder When soldering, use the Lead-free Solder (Sn-Ag-Cu).																		

DSP (COMPONENT SIDE)
8U-310115-1



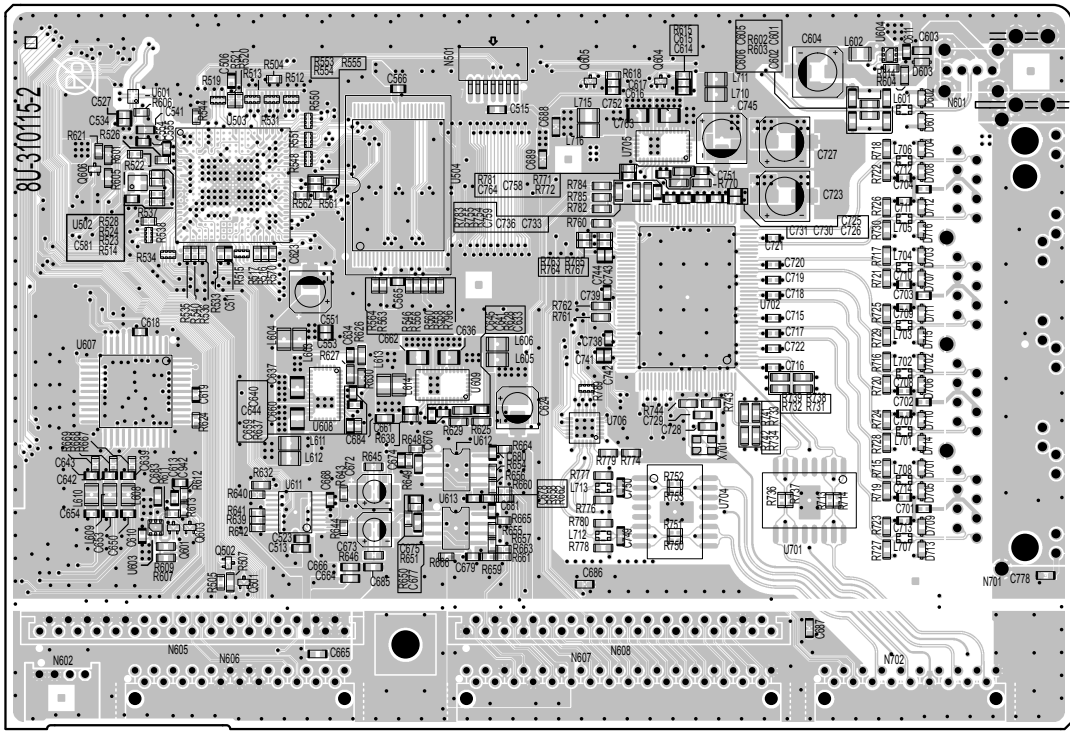
DSP (FOIL SIDE)
8U-310115-1



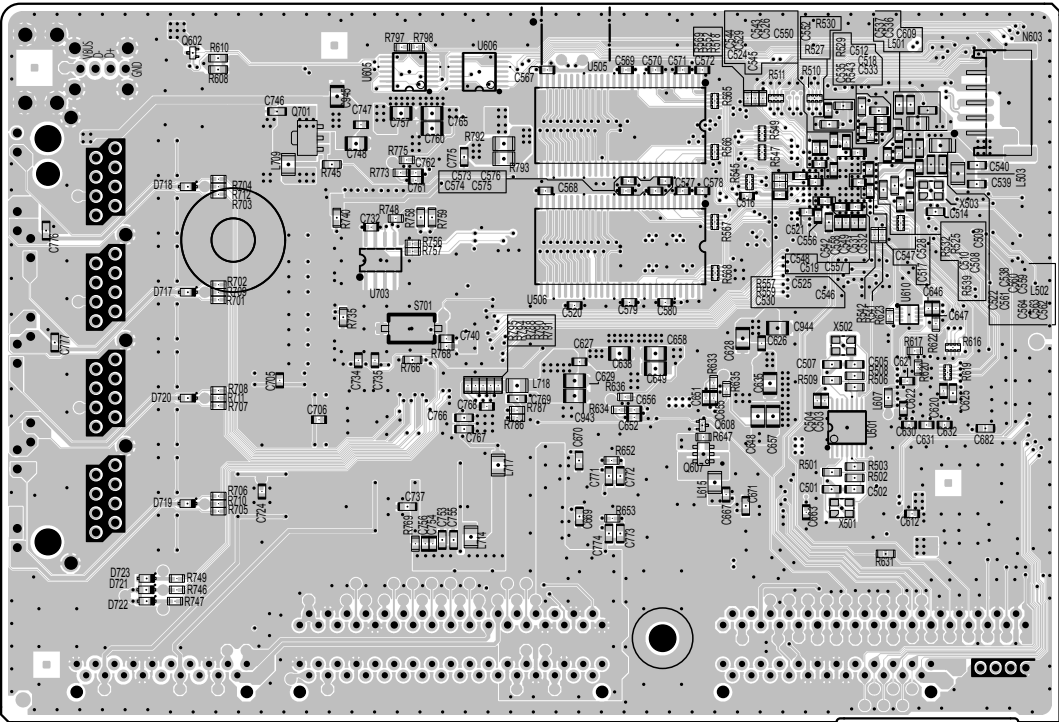
鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

NETWORK (COMPONENT SIDE)
8U-310115-2



NETWORK (FOIL SIDE)
8U-310115-2



A

B

C

D

E

F

G

H

I

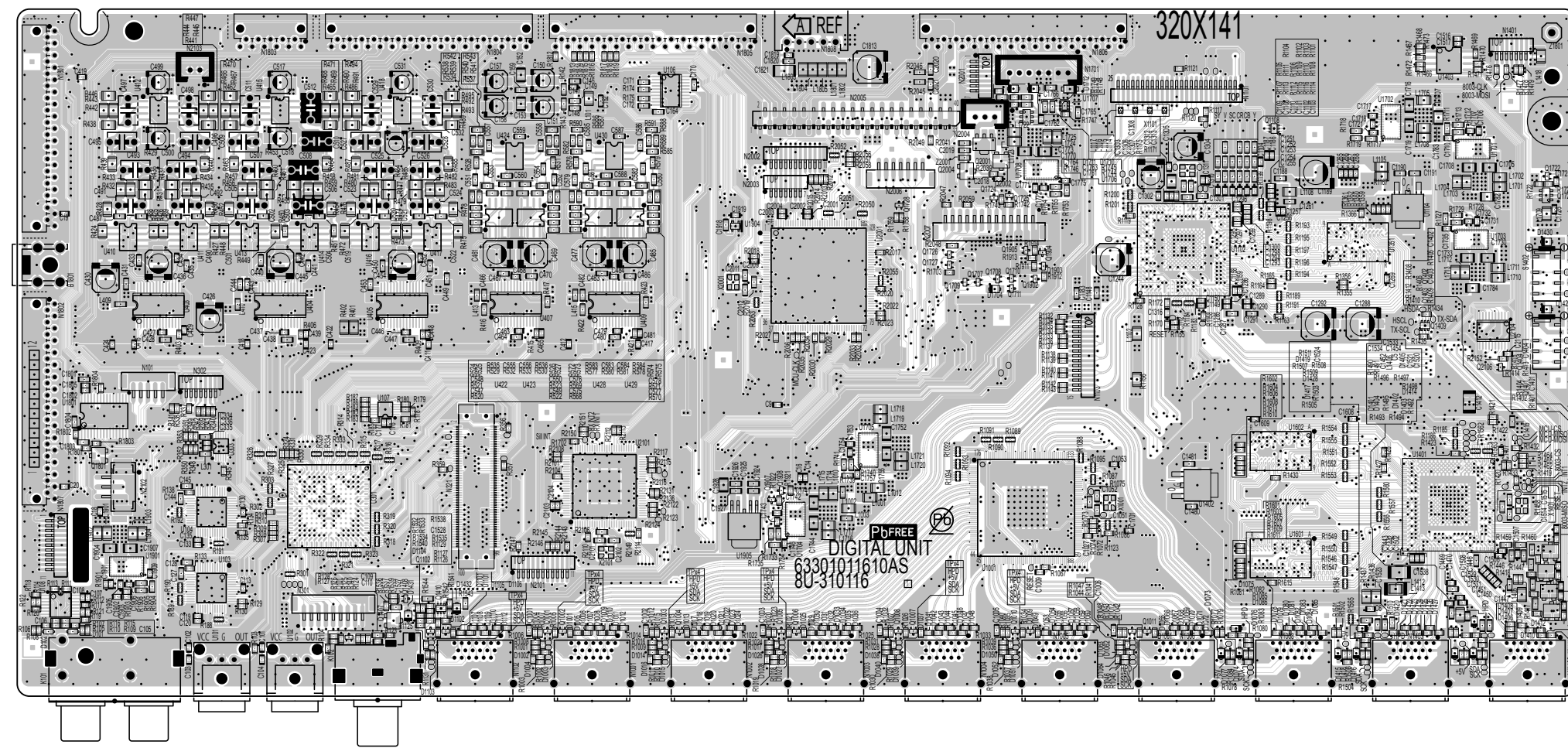
J

K

L

M

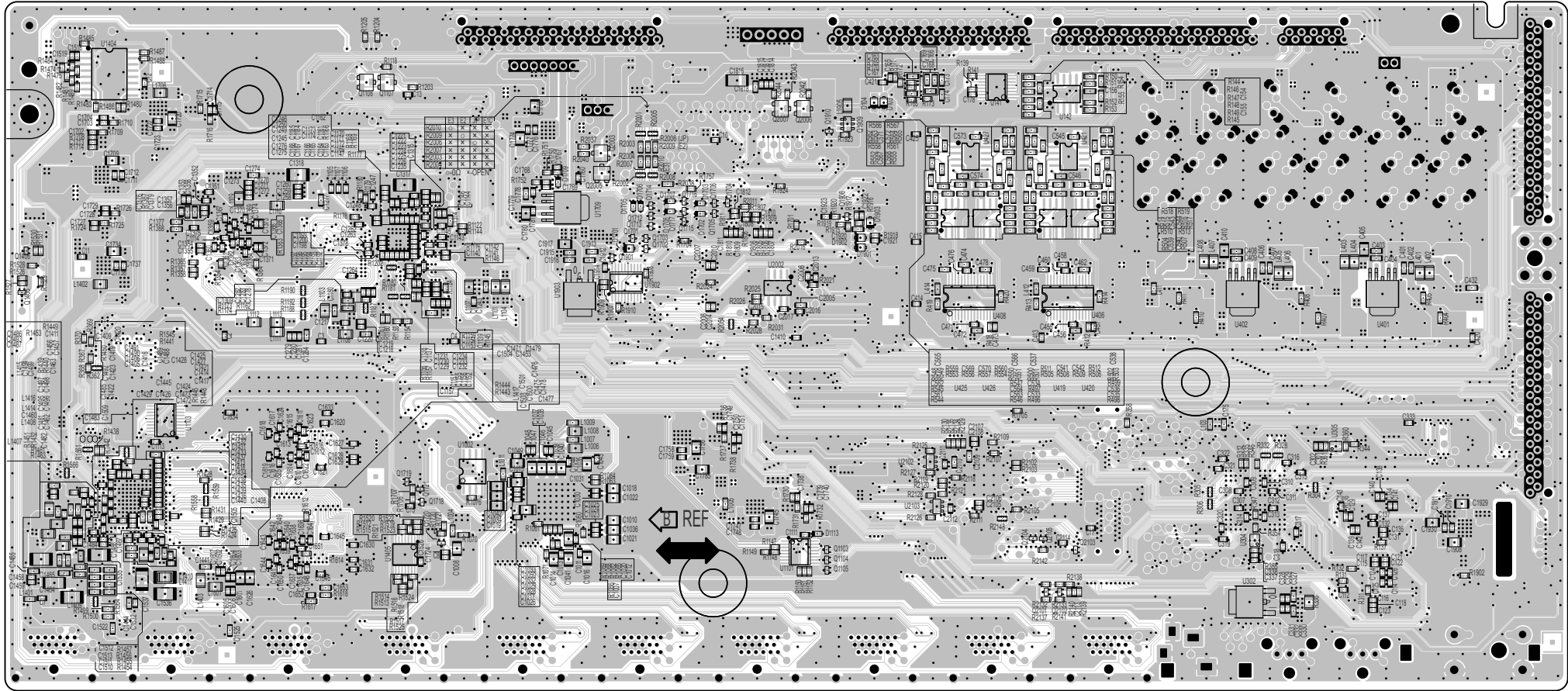
DIGITAL (COMPONENT SIDE)
8U-310116



鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

DIGITAL (FOIL SIDE)
8U-310116



鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

A

B

C

D

E

F

G

H

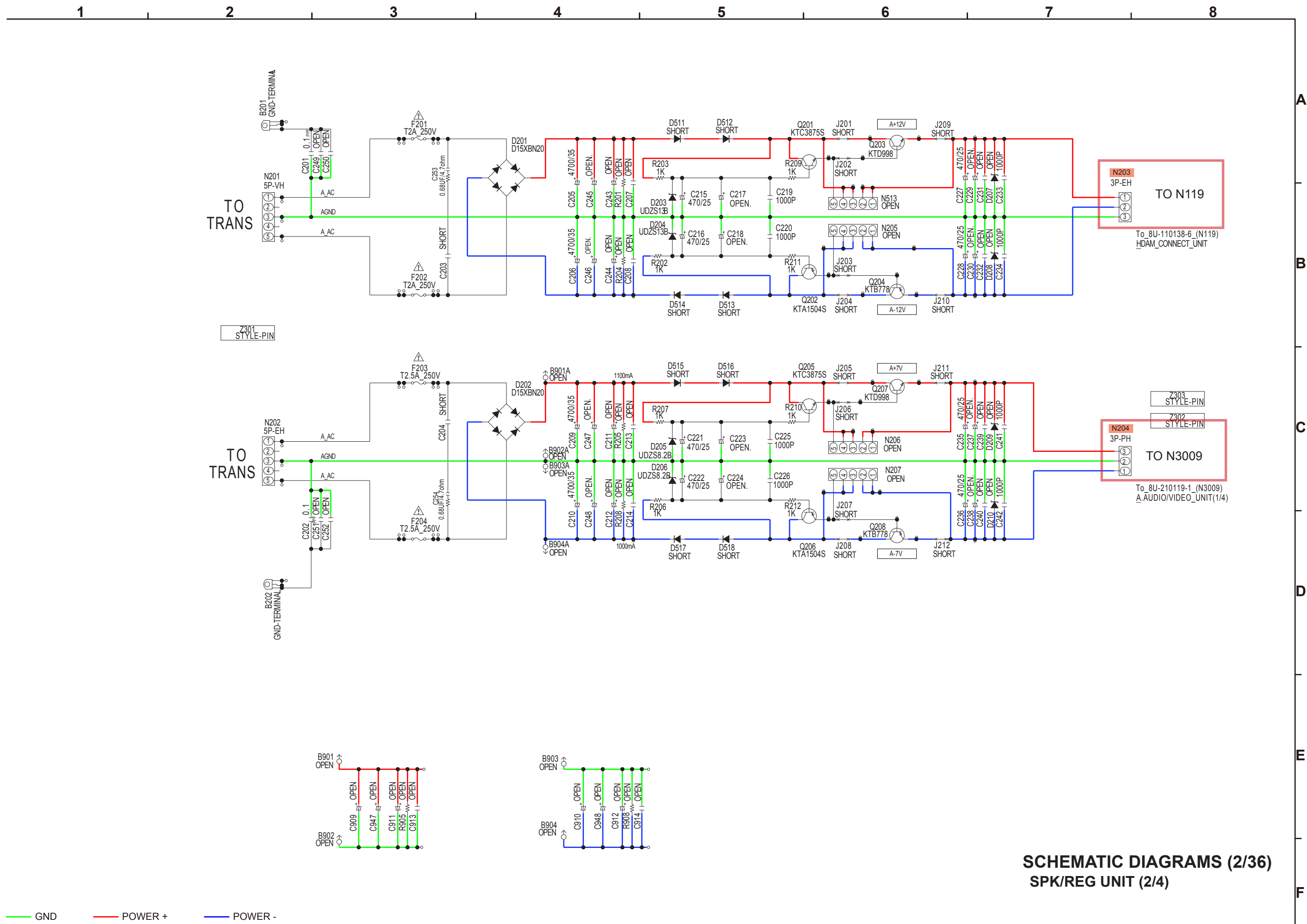
I

J

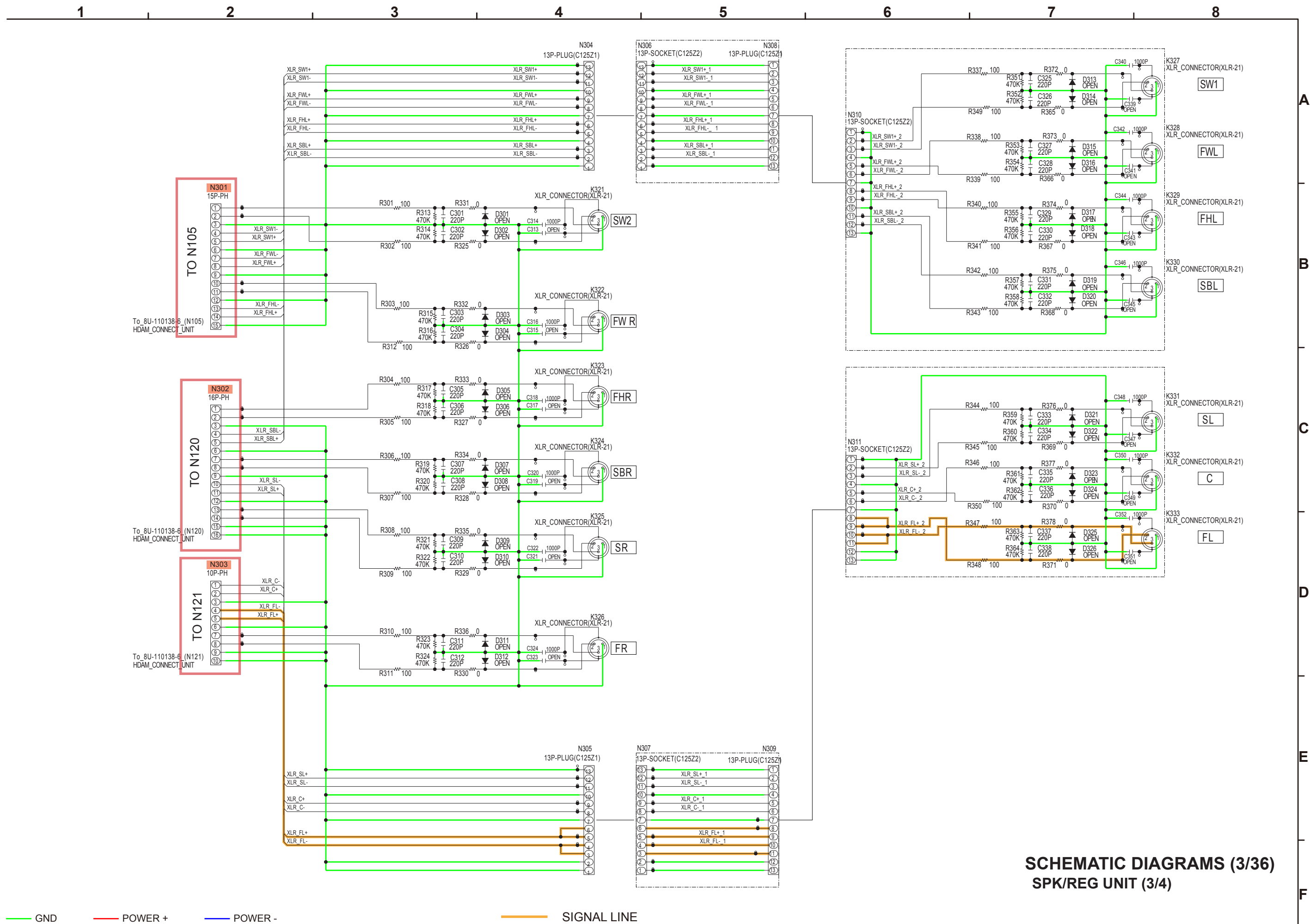
K

L

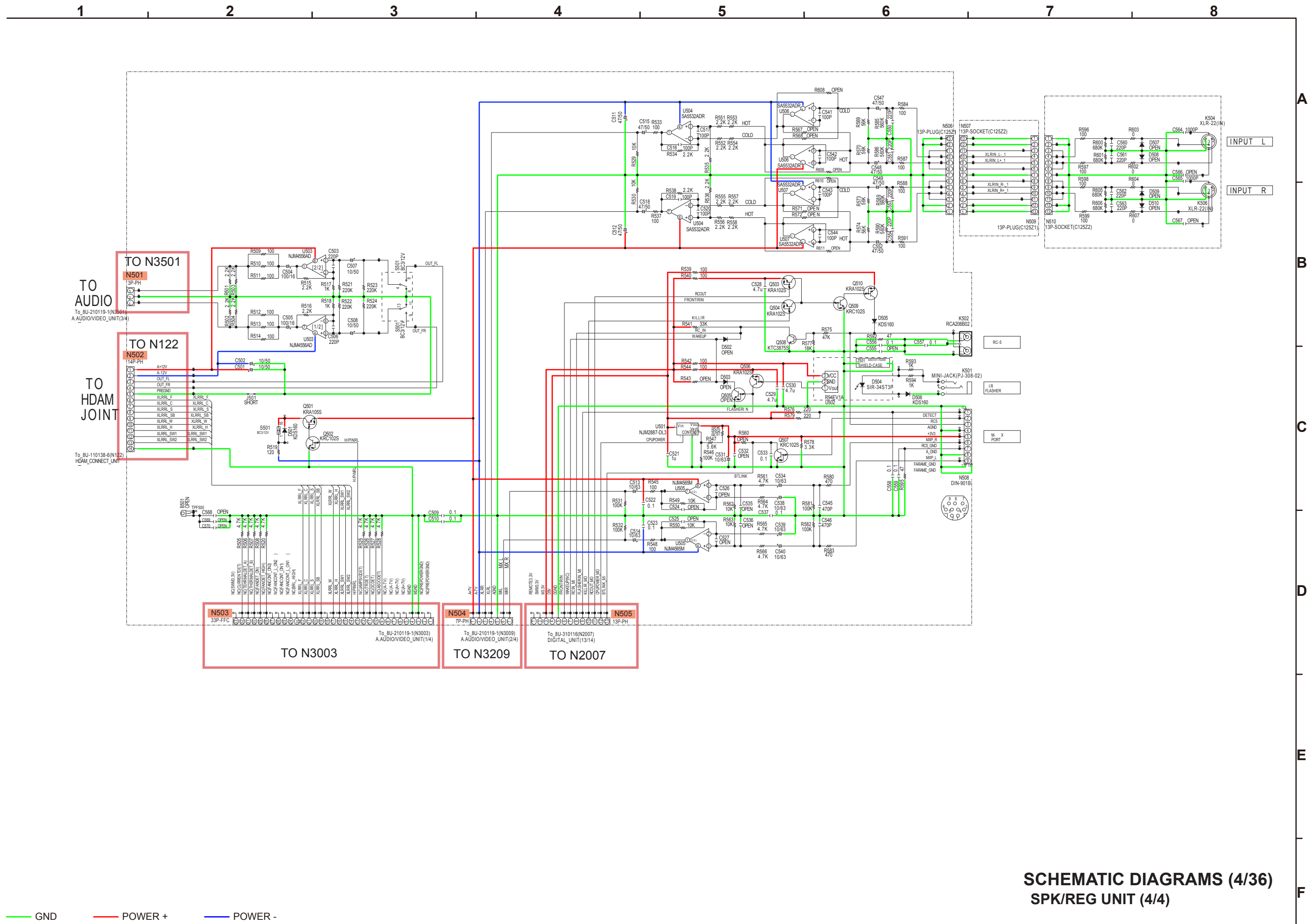
M

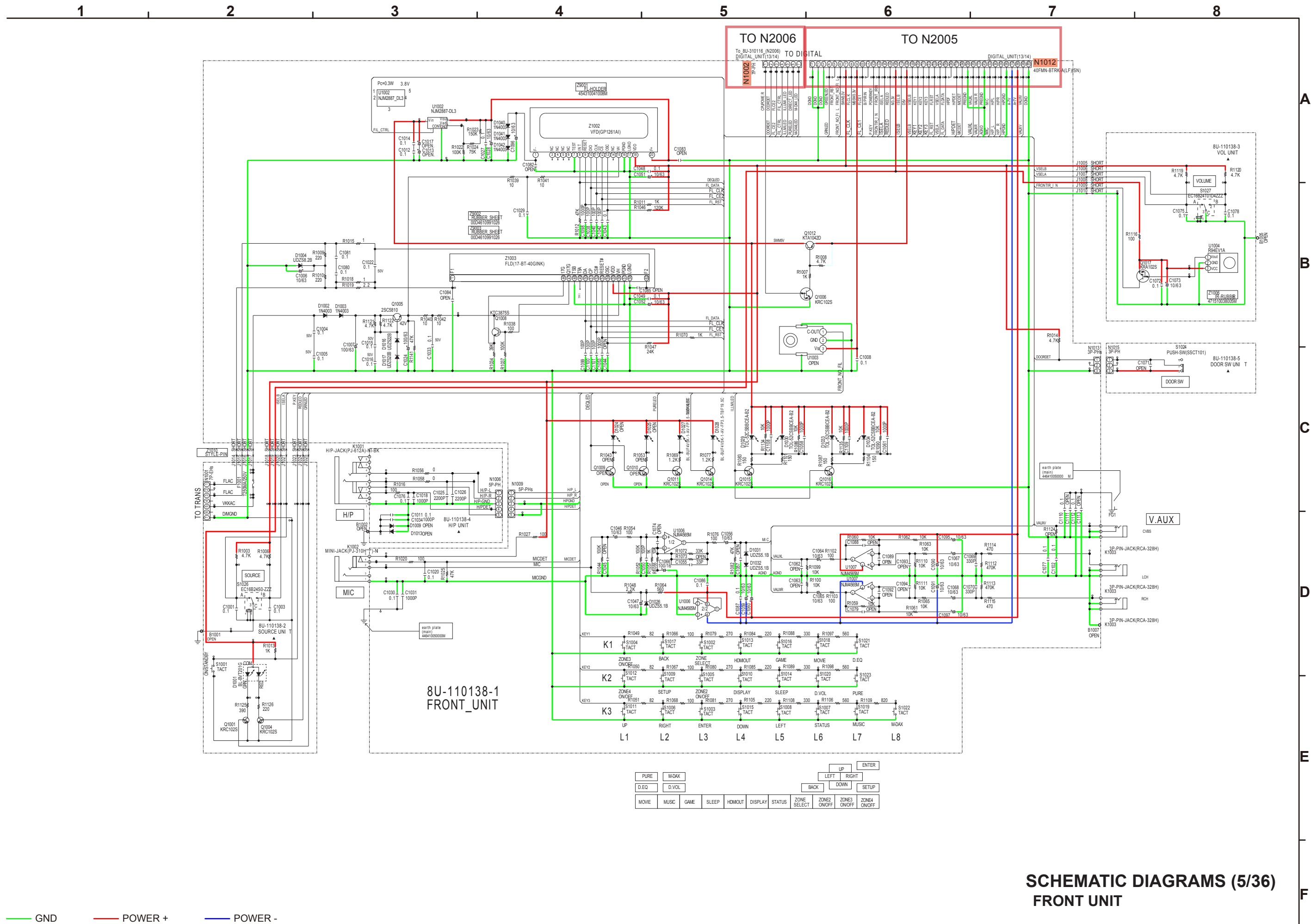


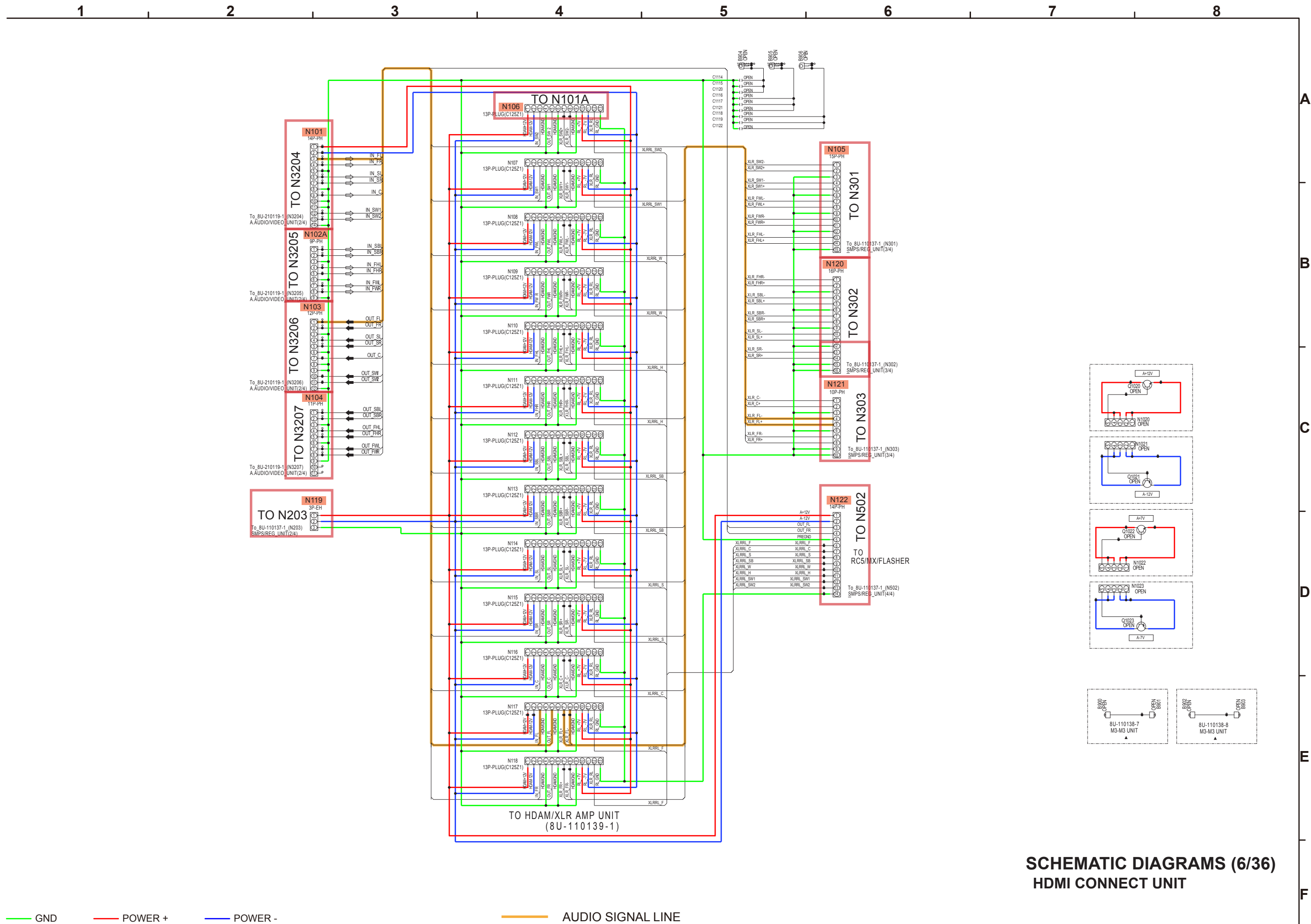
SCHEMATIC DIAGRAMS (2/36)
SPK/REG UNIT (2/4)



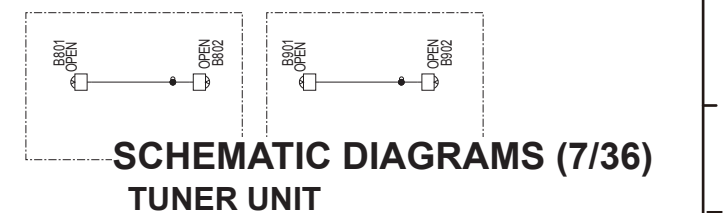
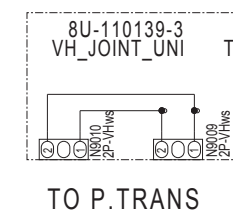
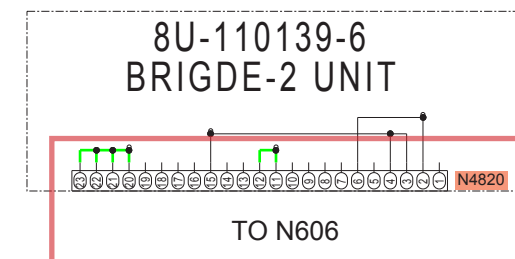
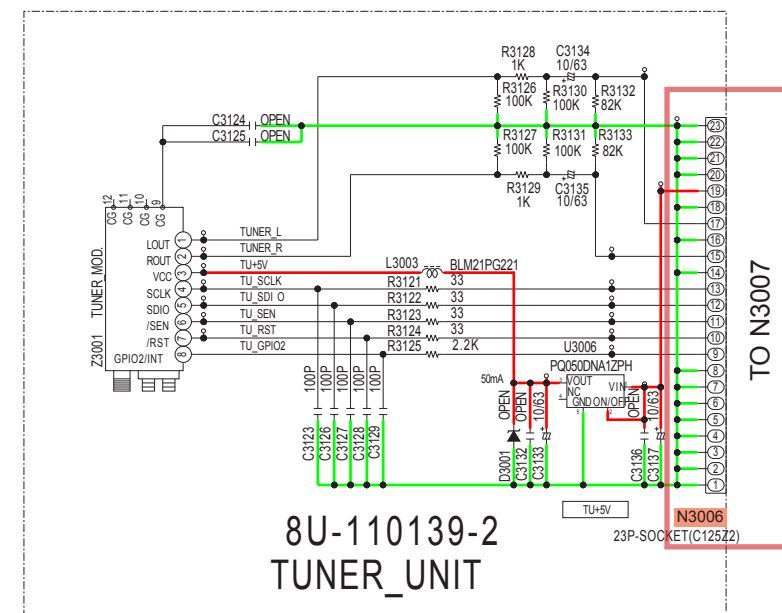
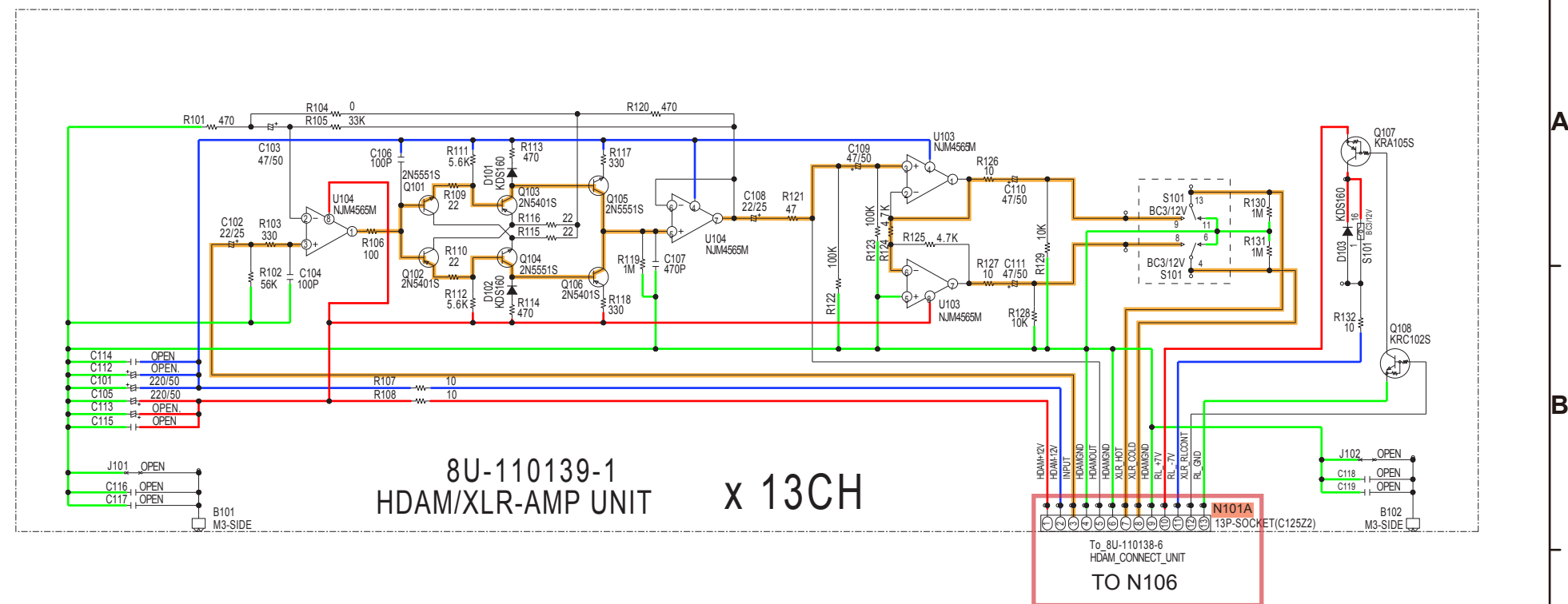
SCHEMATIC DIAGRAMS (3/36)
SPK/REG UNIT (3/4)





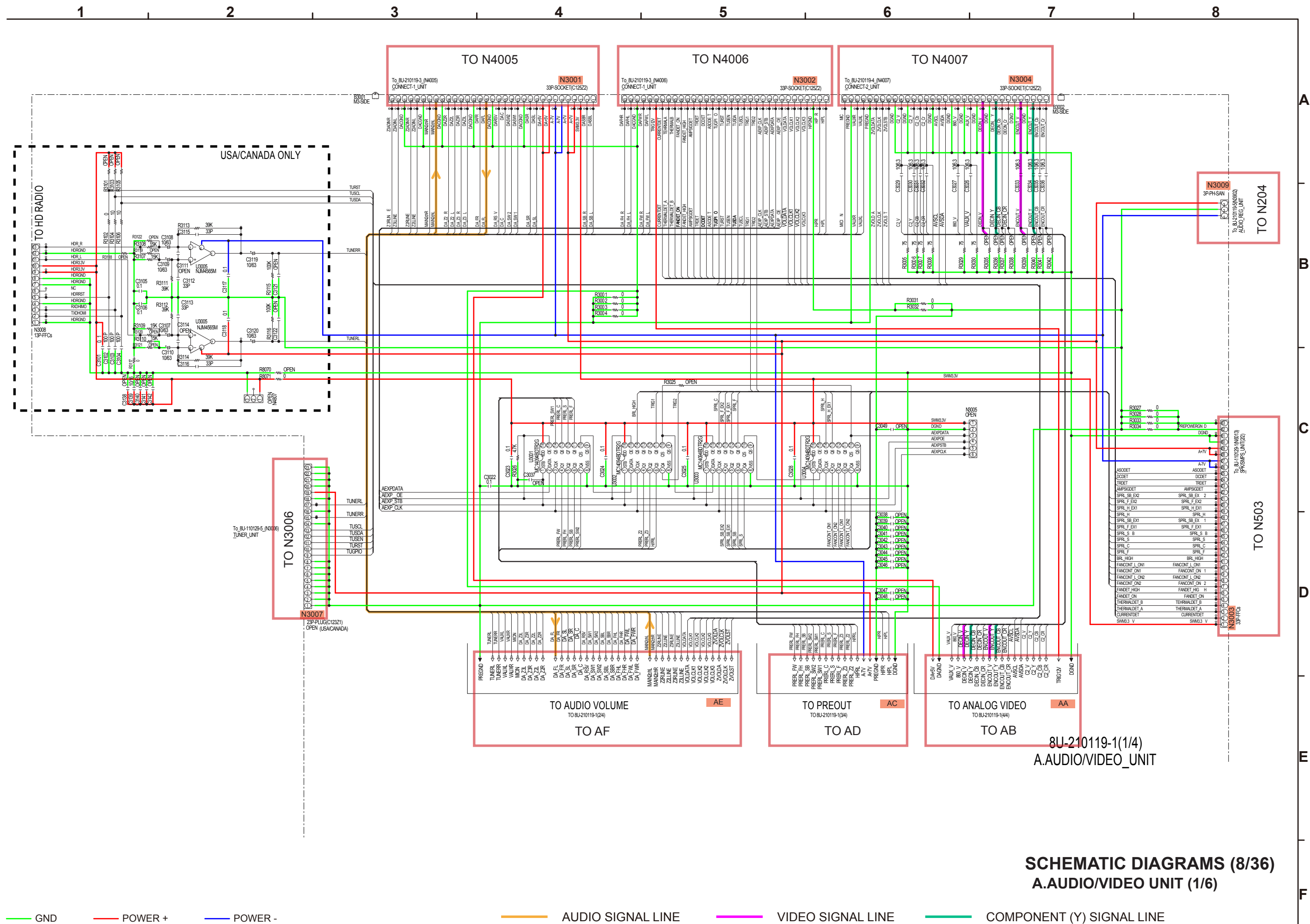


SCHEMATIC DIAGRAMS (6/36)
HDMI CONNECT UNIT



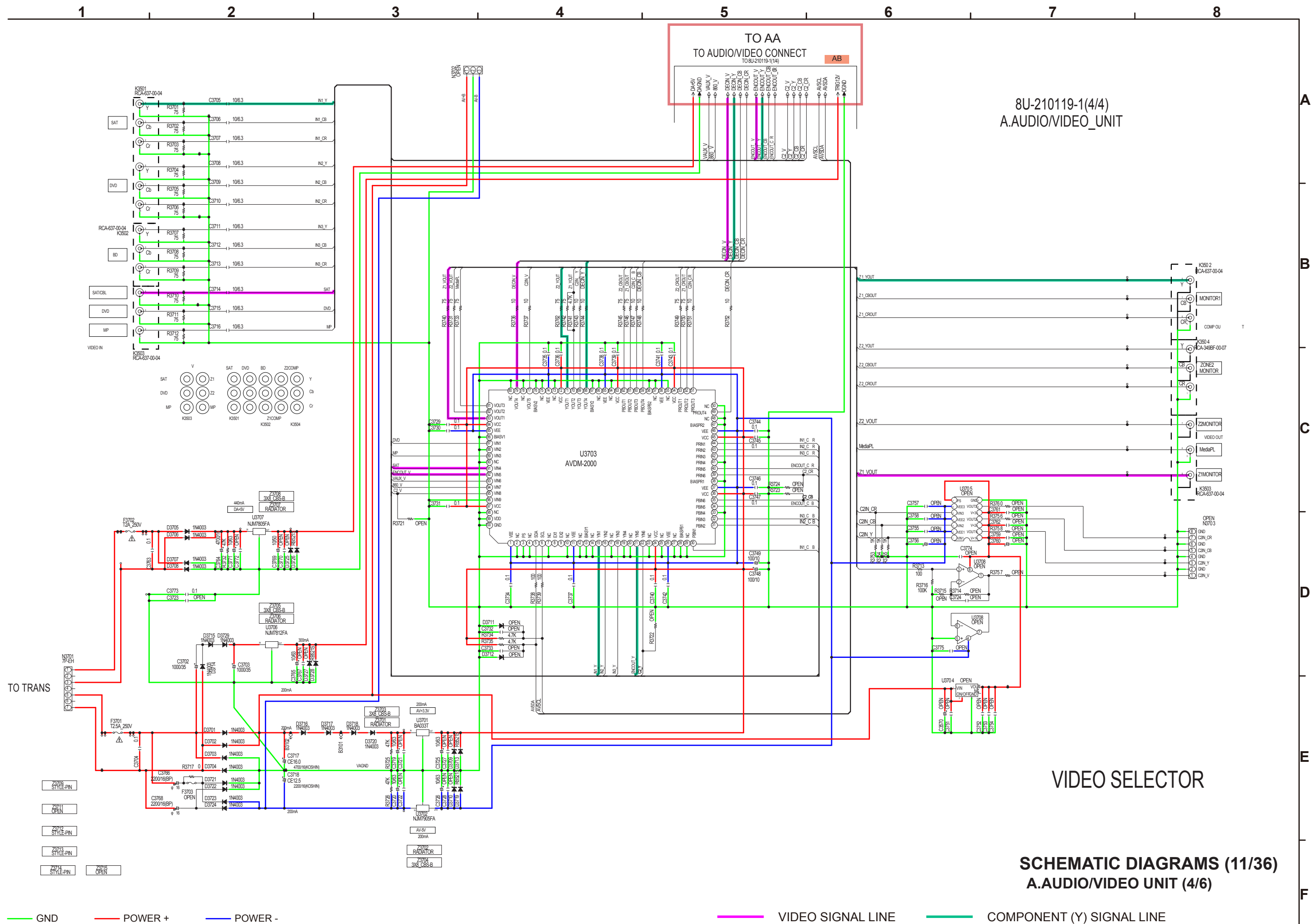
GND POWER + POWER -

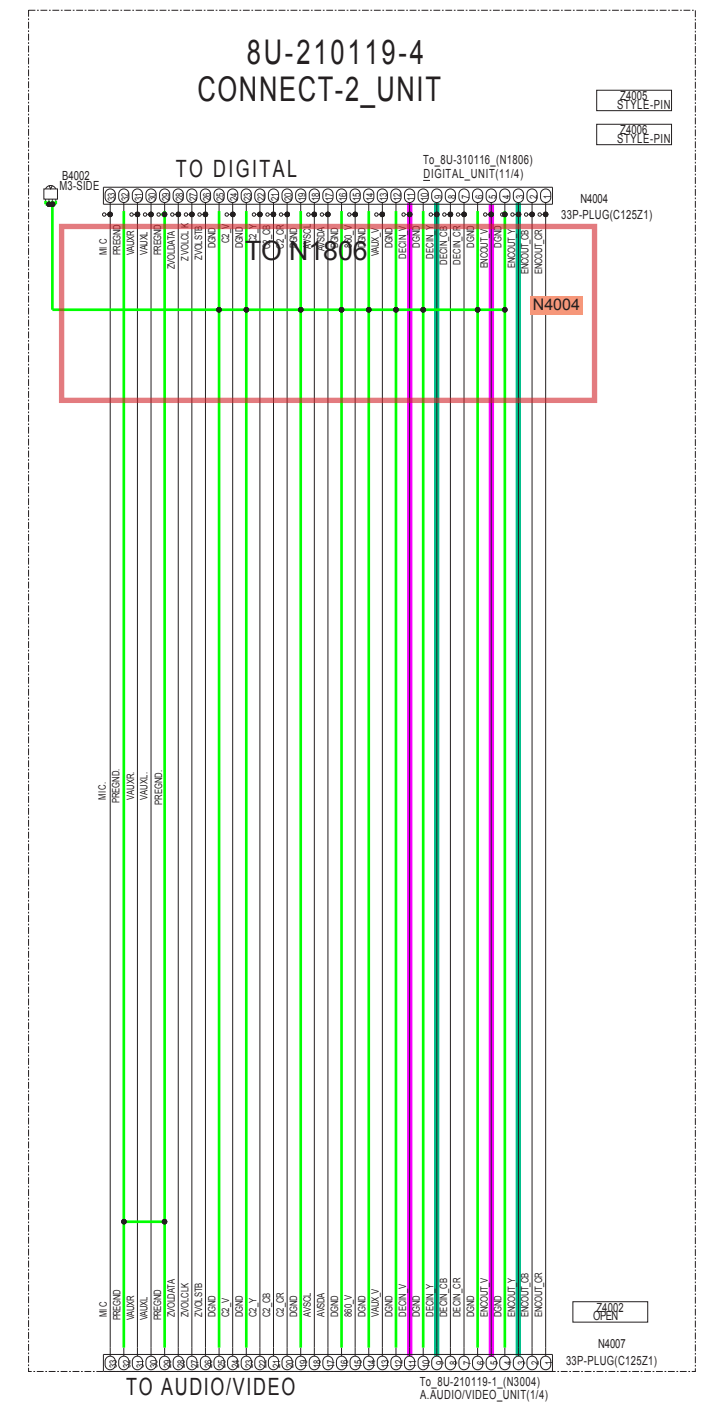
AUDIO SIGNAL LINE



SCHEMATIC DIAGRAMS (8/36)
A.AUDIO/VIDEO UNIT (1/6)







8U-210119-4
CONNECT-2_UNIT

TO DIGITAL

To_8U-310116_(N1806)
DIGITAL_UNIT(11/4)

C2
DGNEI
T0
C2
DGNEI
N1800
PVSDA
DGNEI
C2
DGNEI
VALX_V

DECIN
DGN
DECIN
DECIN_C8
DECIN_C8
DGN
NOUT_V
DGN
NOUT_Y
NOUT_C8
NOUT_C8

8U-210119-3
CONNECT-1_UNIT

TO AUDIO/VIDEO

To_8U-210119-1_(N3001)
A.AUDIO/VIDEO UNIT(1/4)

8U-210119-7
BRIDGE_UNIT

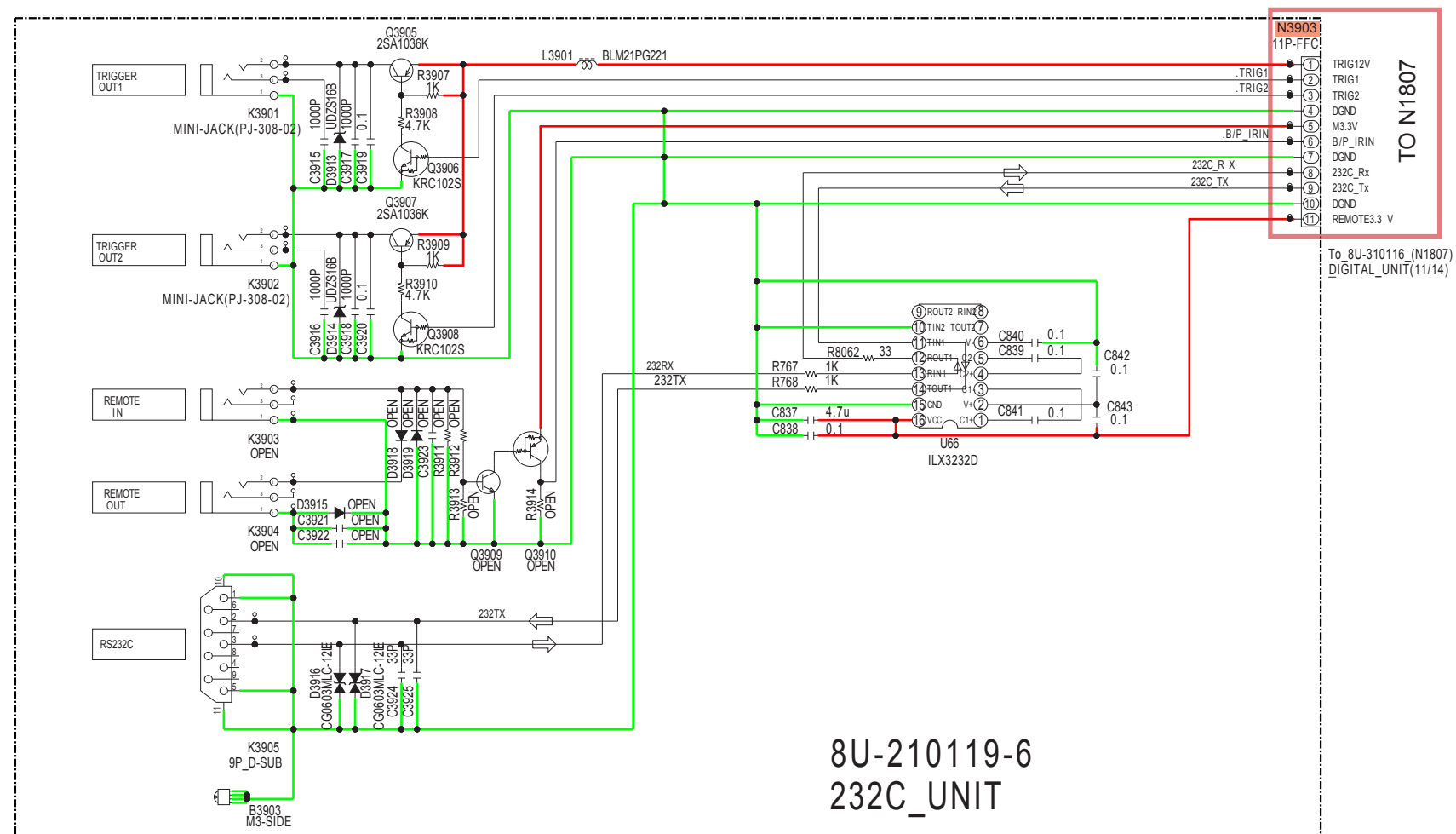
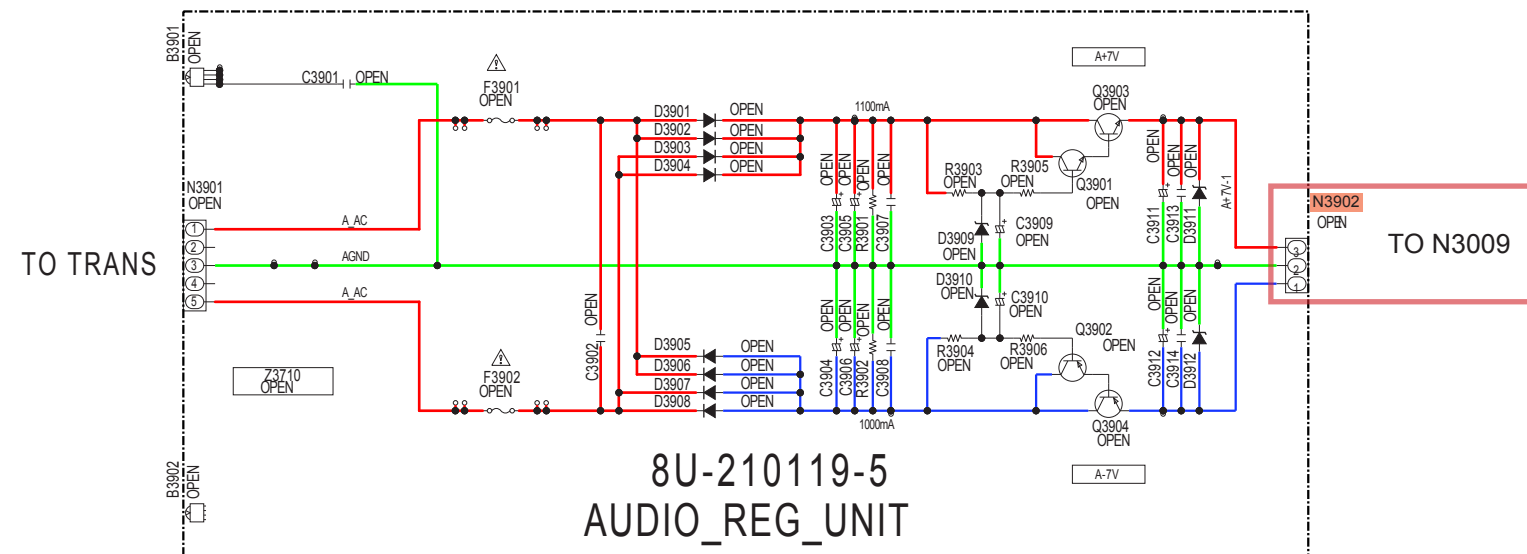
TO N3002

TO N3004

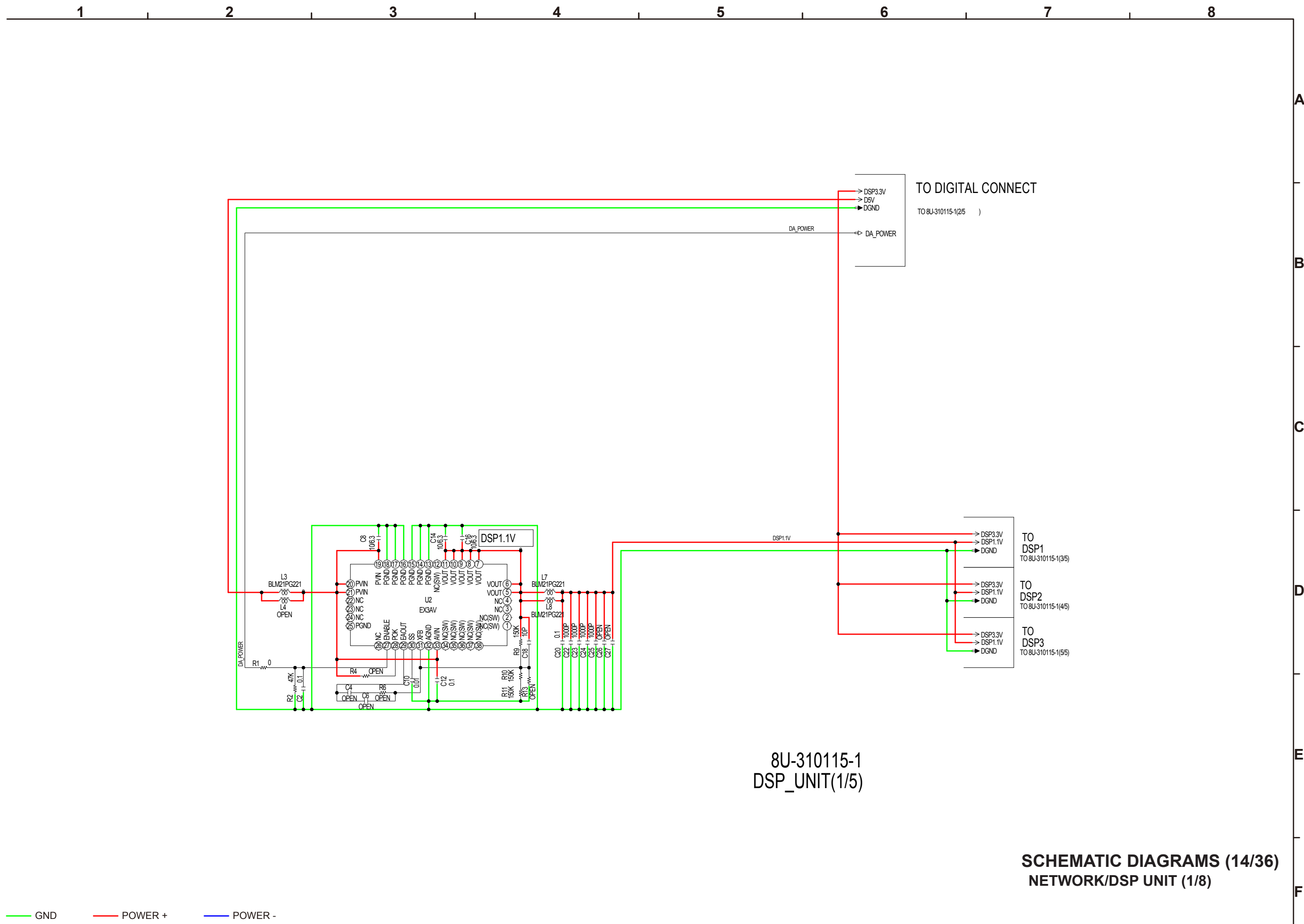
TO N702-2

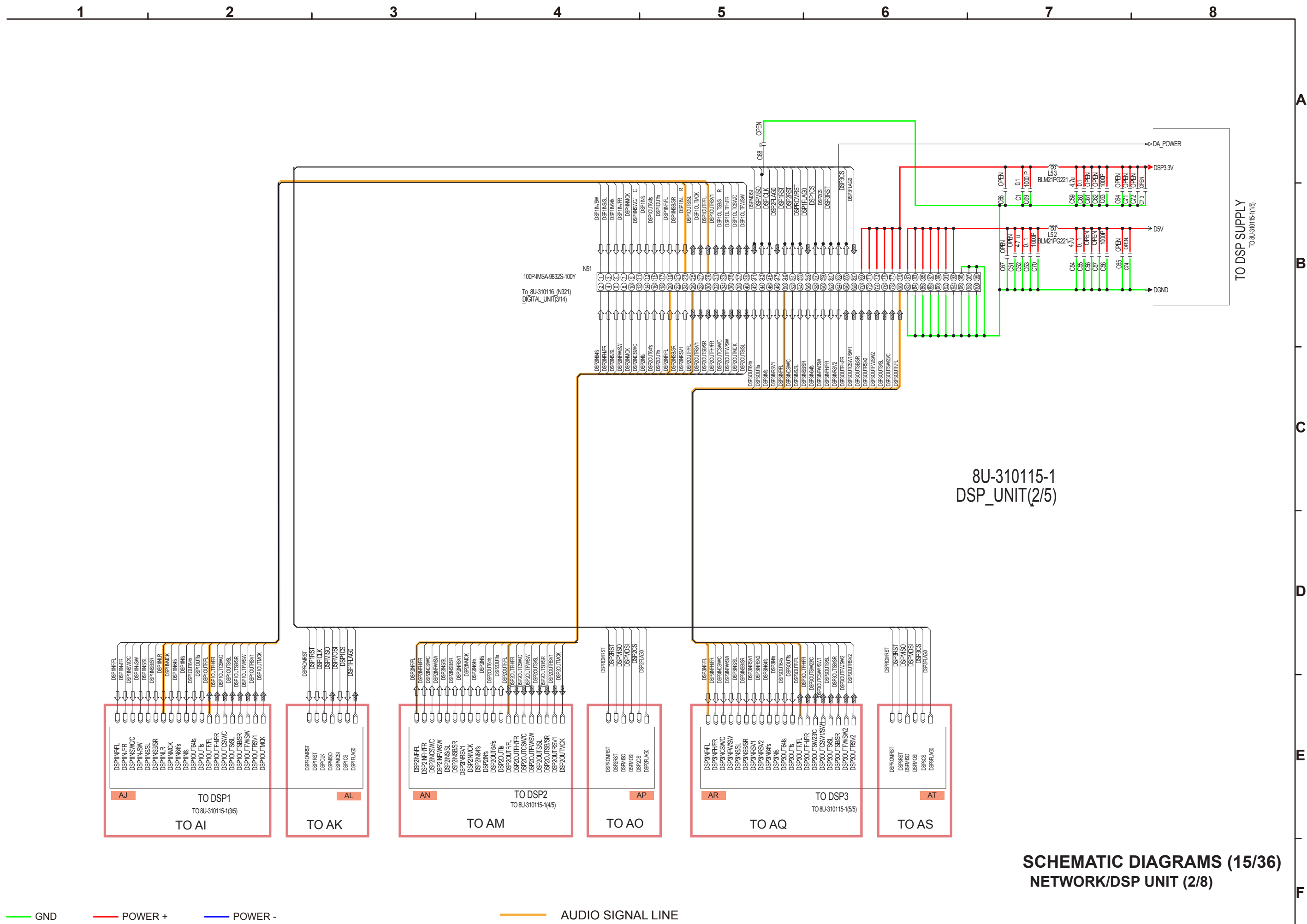
SCHEMATIC DIAGRAMS (12/36)

— GND — POWER + — POWER - — AUDIO SIGNAL LINE — VIDEO SIGNAL LINE

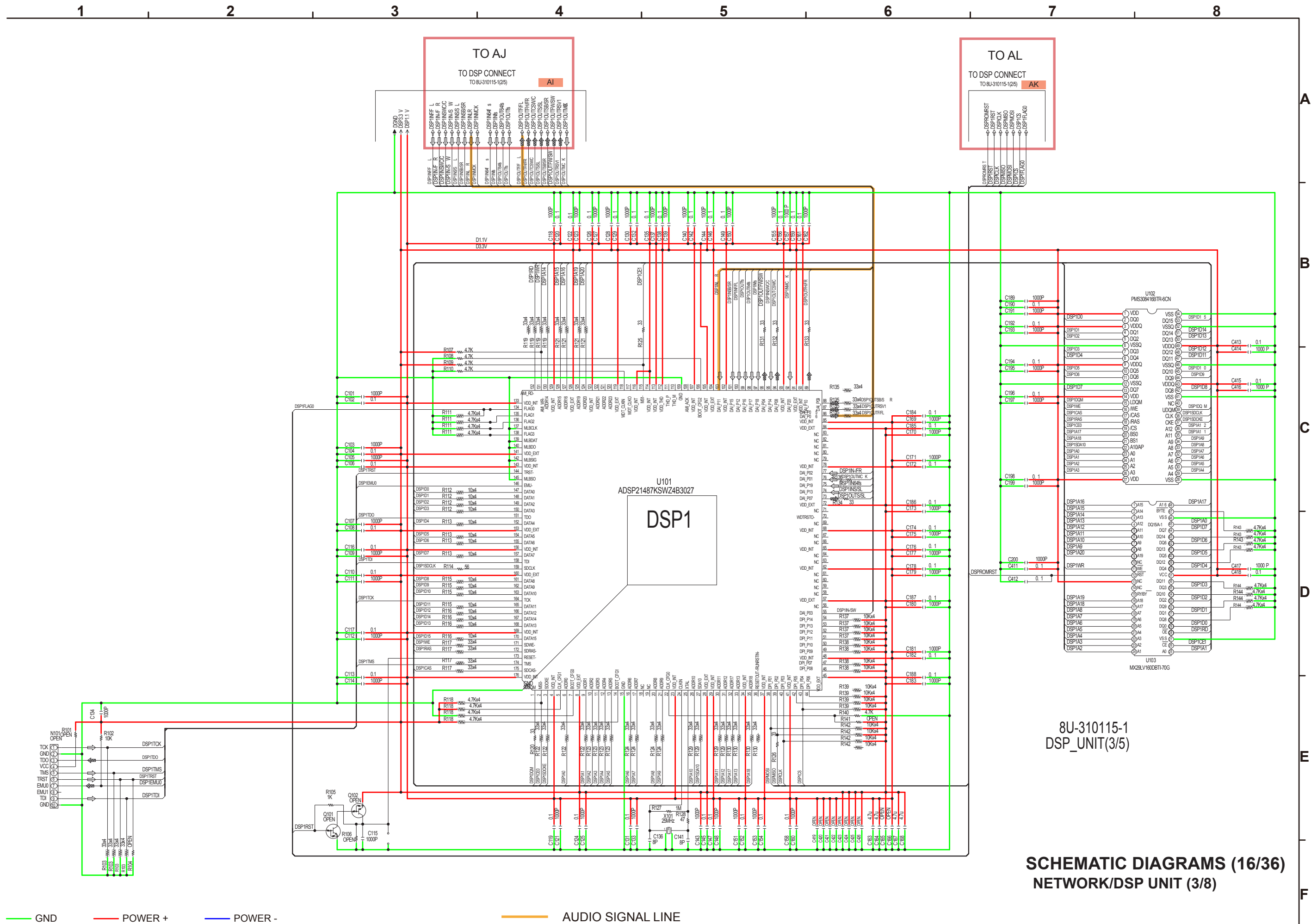


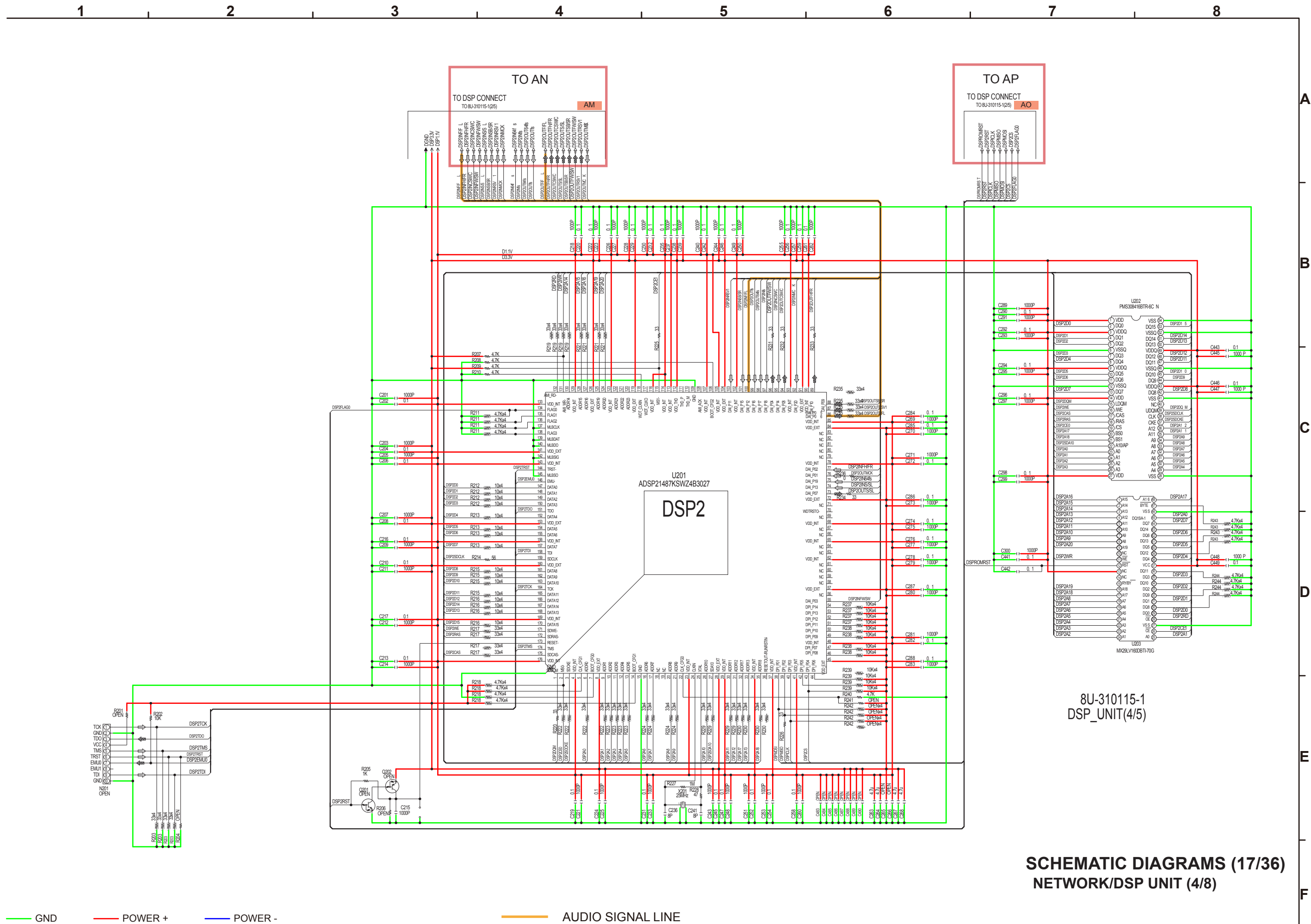
SCHEMATIC DIAGRAMS (13/36)
A.AUDIO/VIDEO UNIT (6/6)

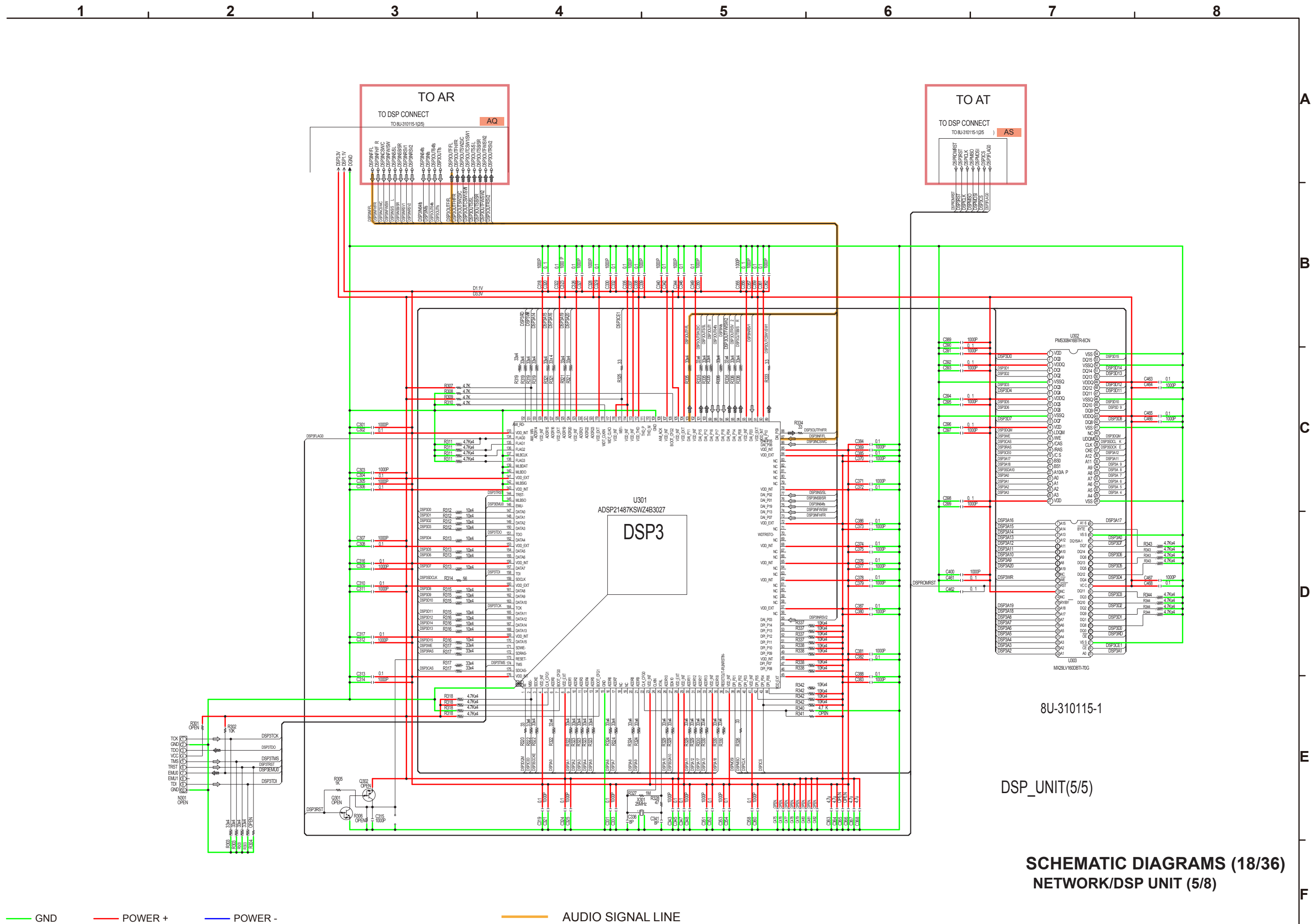


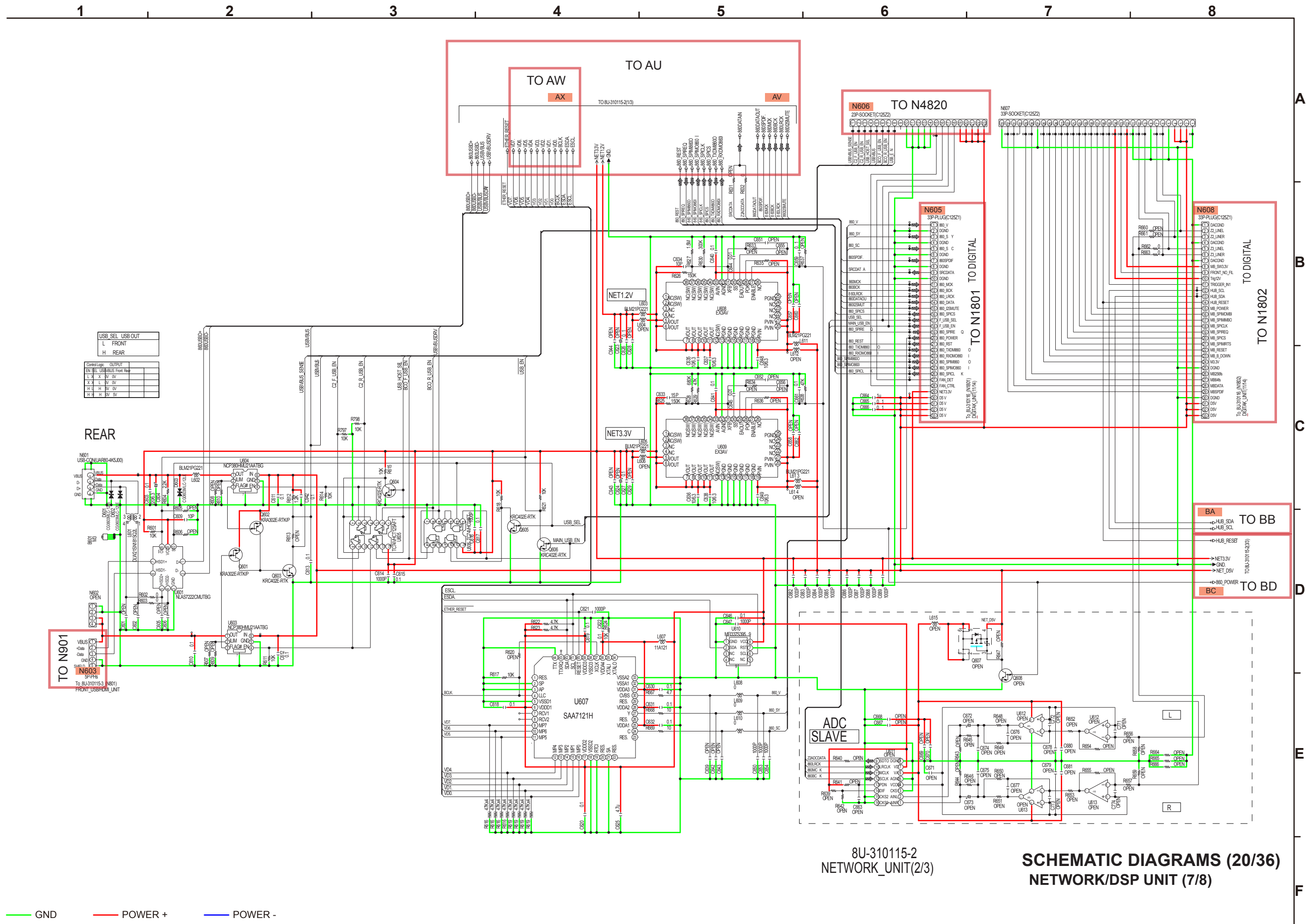


SCHEMATIC DIAGRAMS (15/36)
NETWORK/DSP UNIT (2/8)



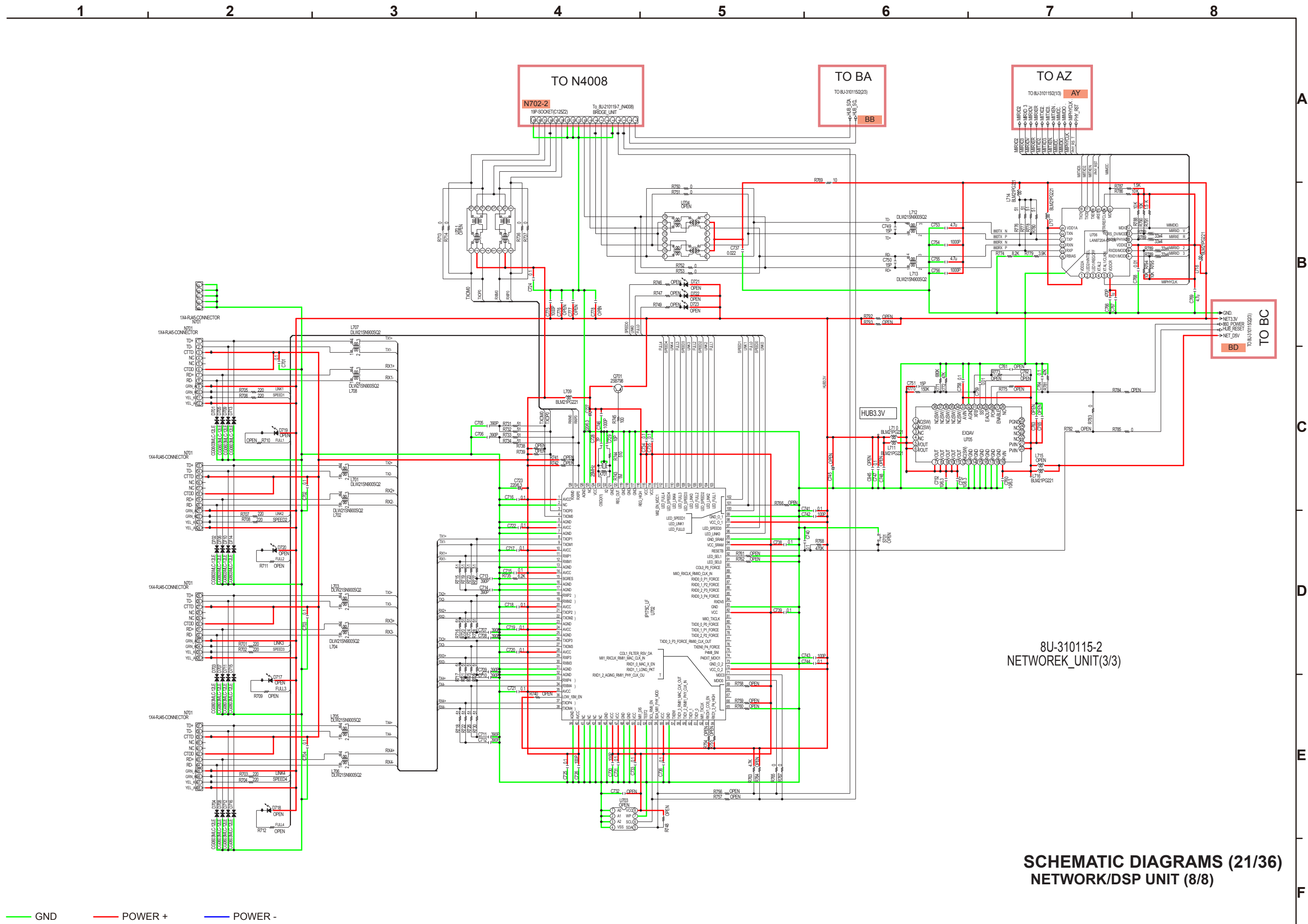




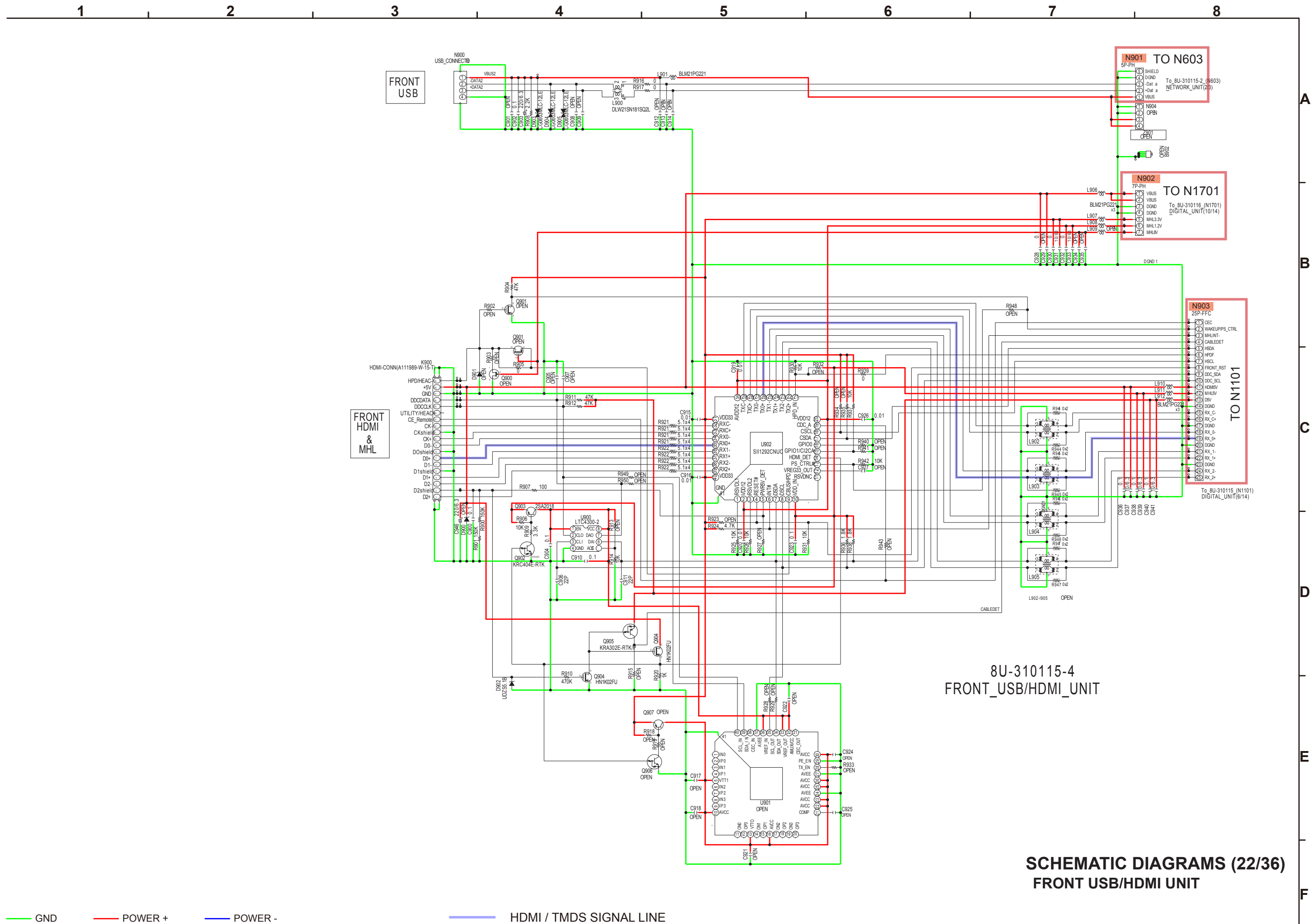


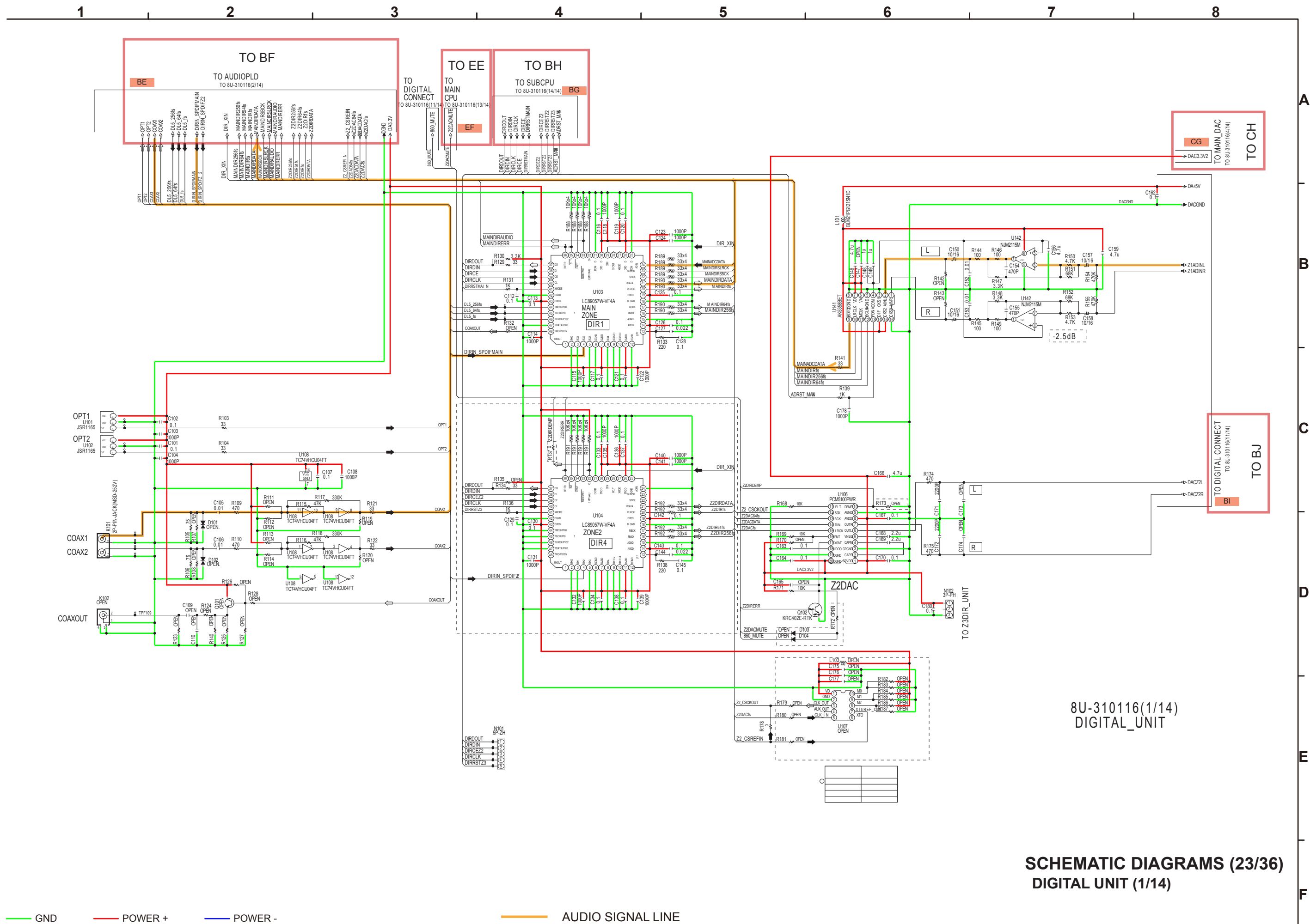
8U-310115-2
NETWORK_UNIT(2/3)

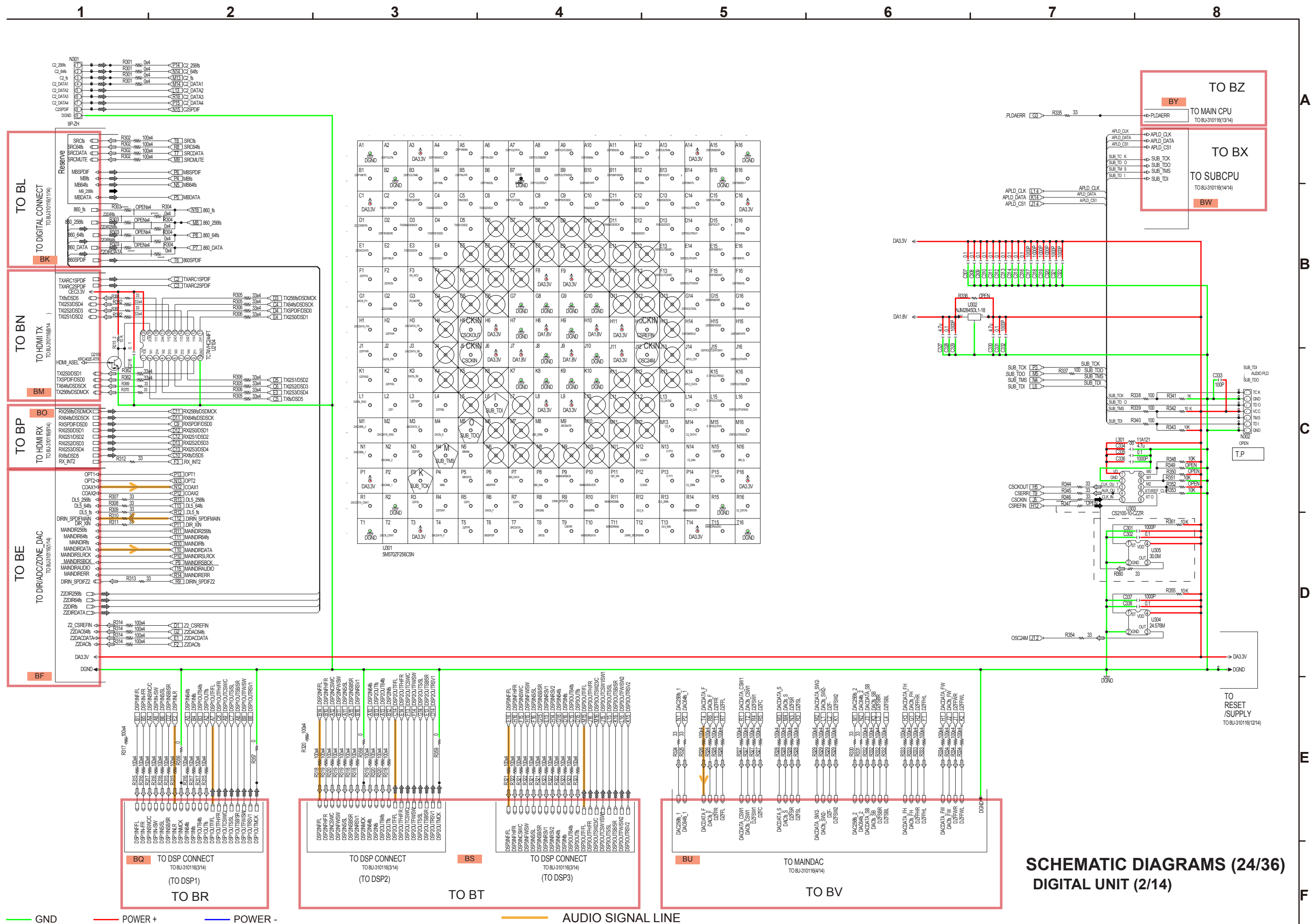
SCHEMATIC DIAGRAMS (20/36)
NETWORK/DSP UNIT (7/8)

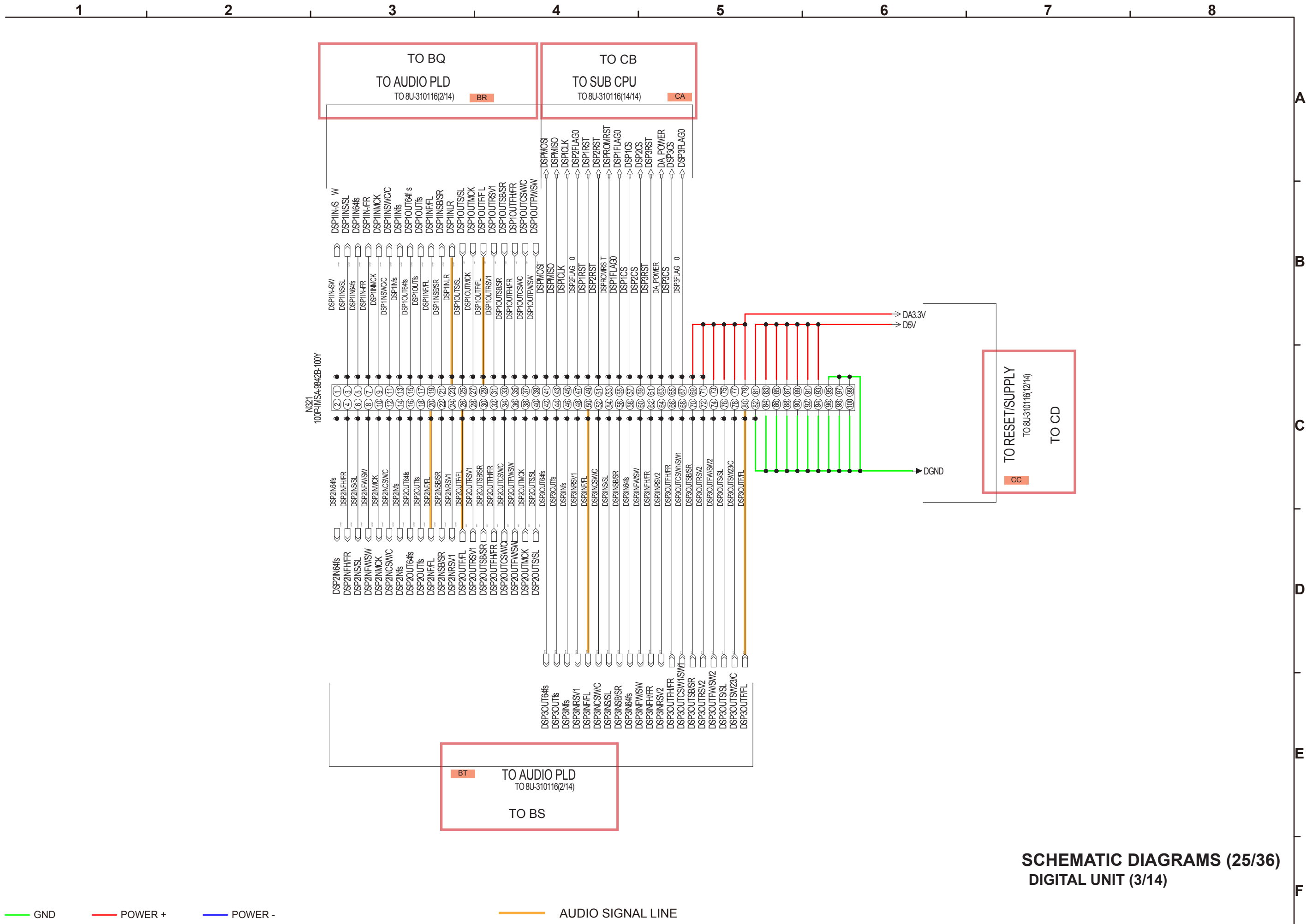


SCHEMATIC DIAGRAMS (21/36)
NETWORK/DSP UNIT (8/8)

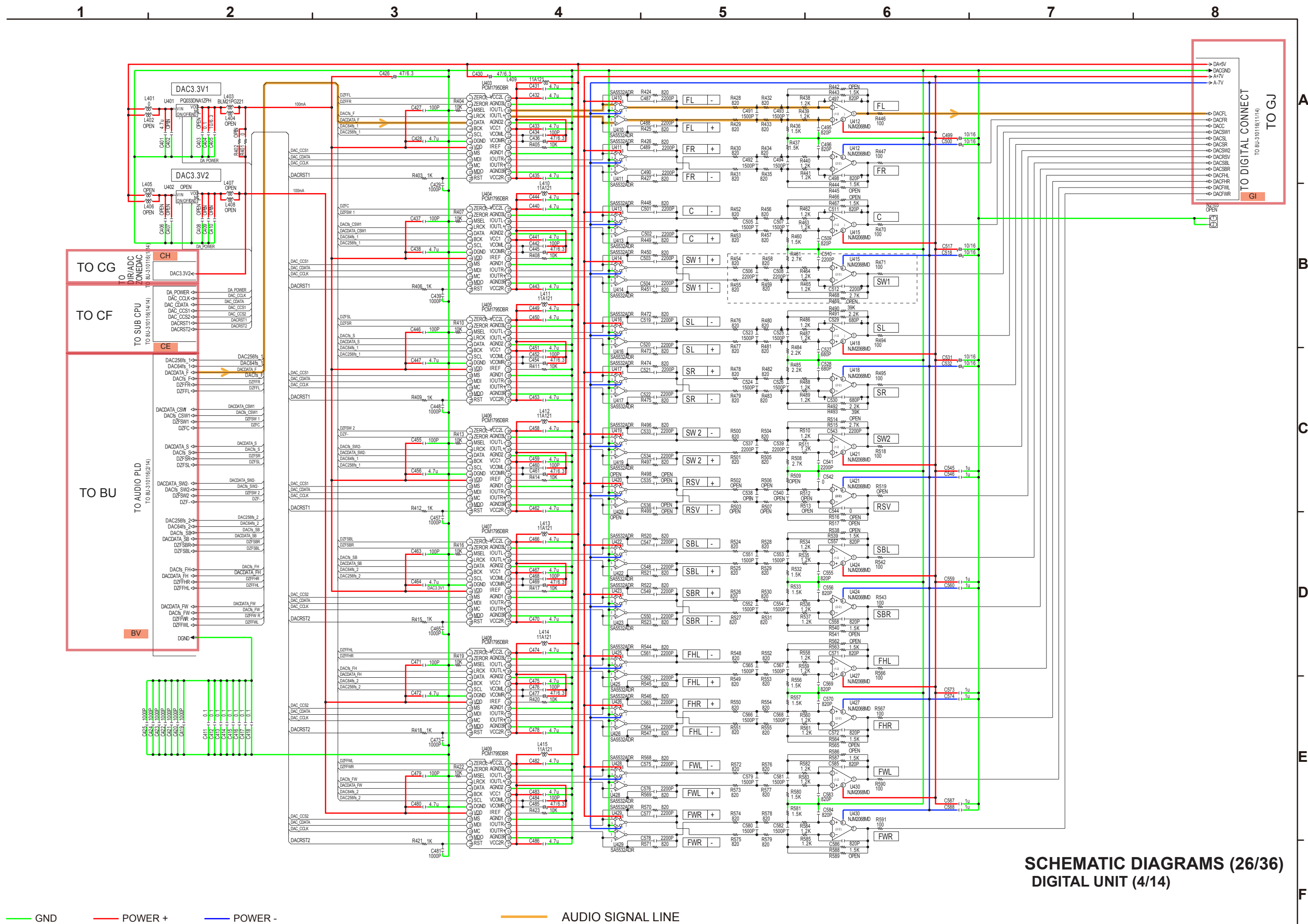




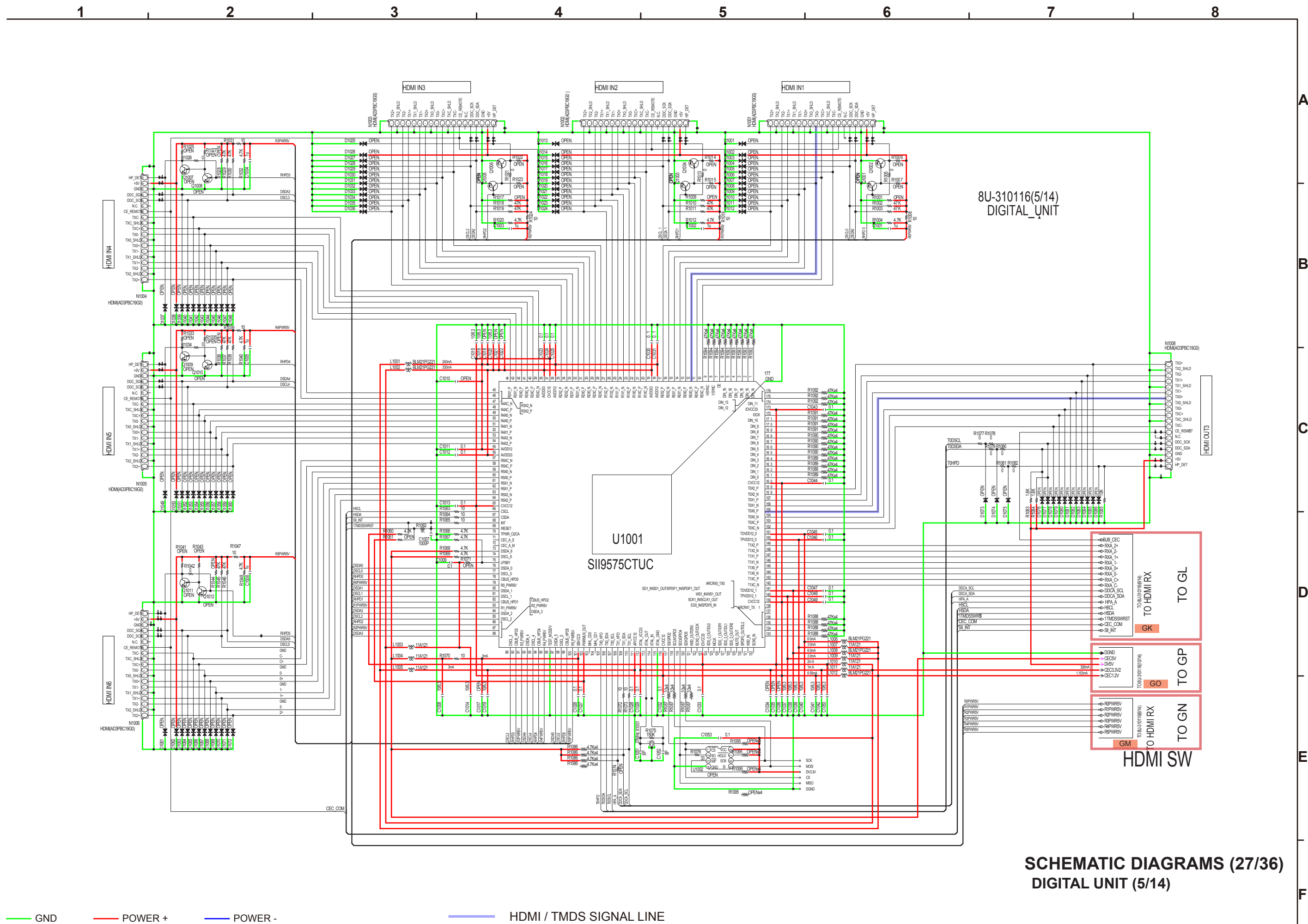




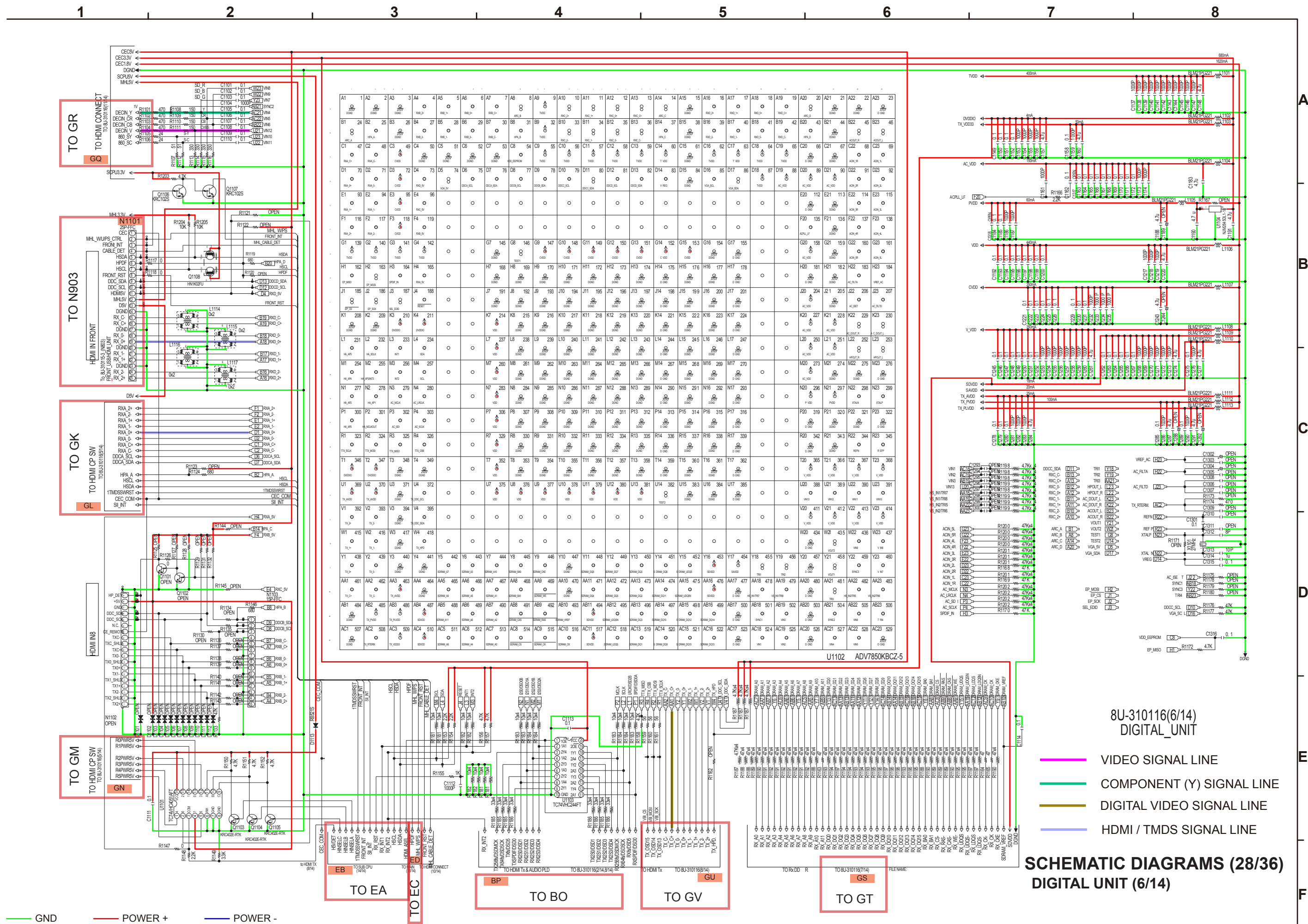
SCHEMATIC DIAGRAMS (25/36)
DIGITAL UNIT (3/14)

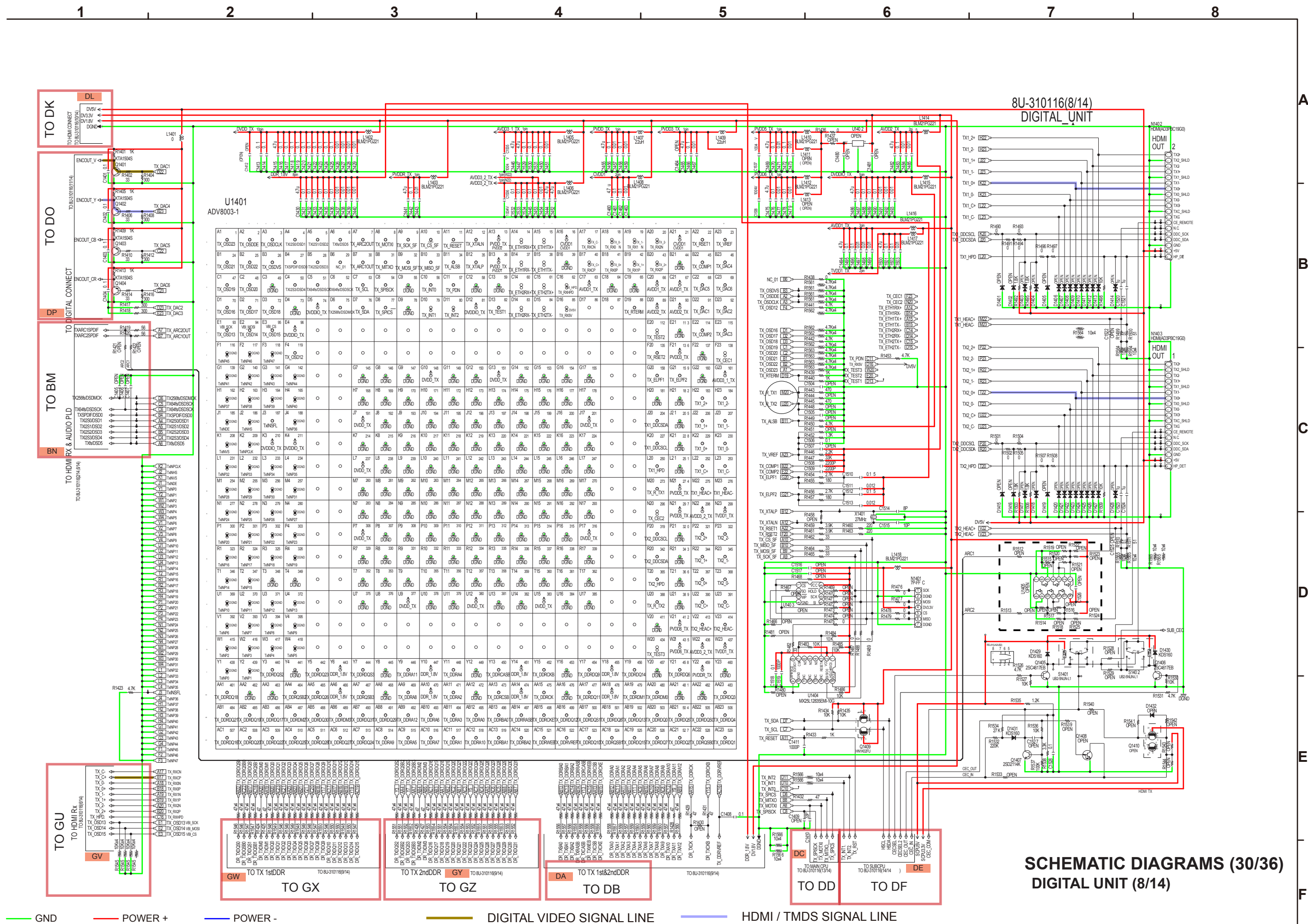


SCHEMATIC DIAGRAMS (26/36)
DIGITAL UNIT (4/14)

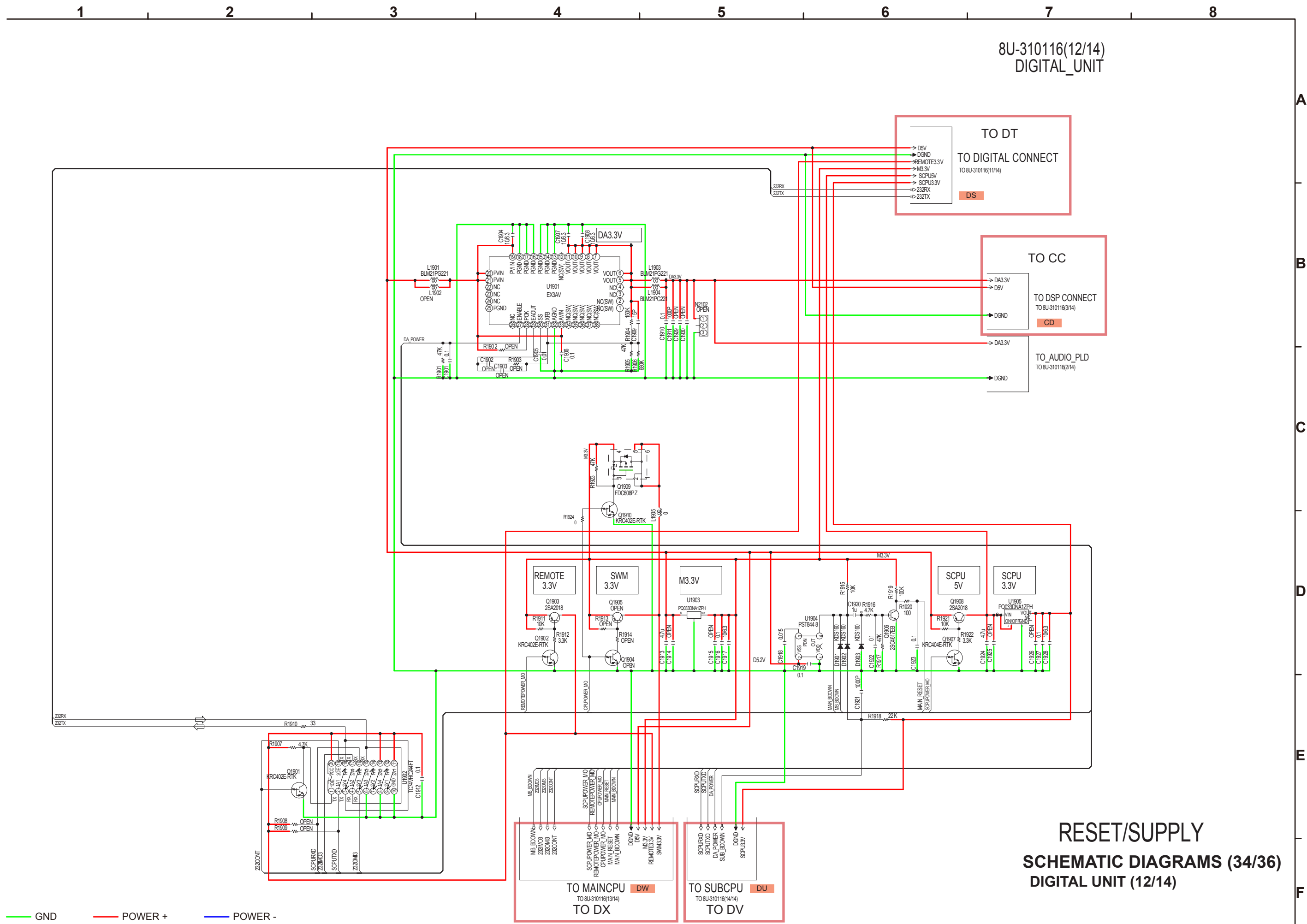


SCHEMATIC DIAGRAMS (27/36)
DIGITAL UNIT (5/14)





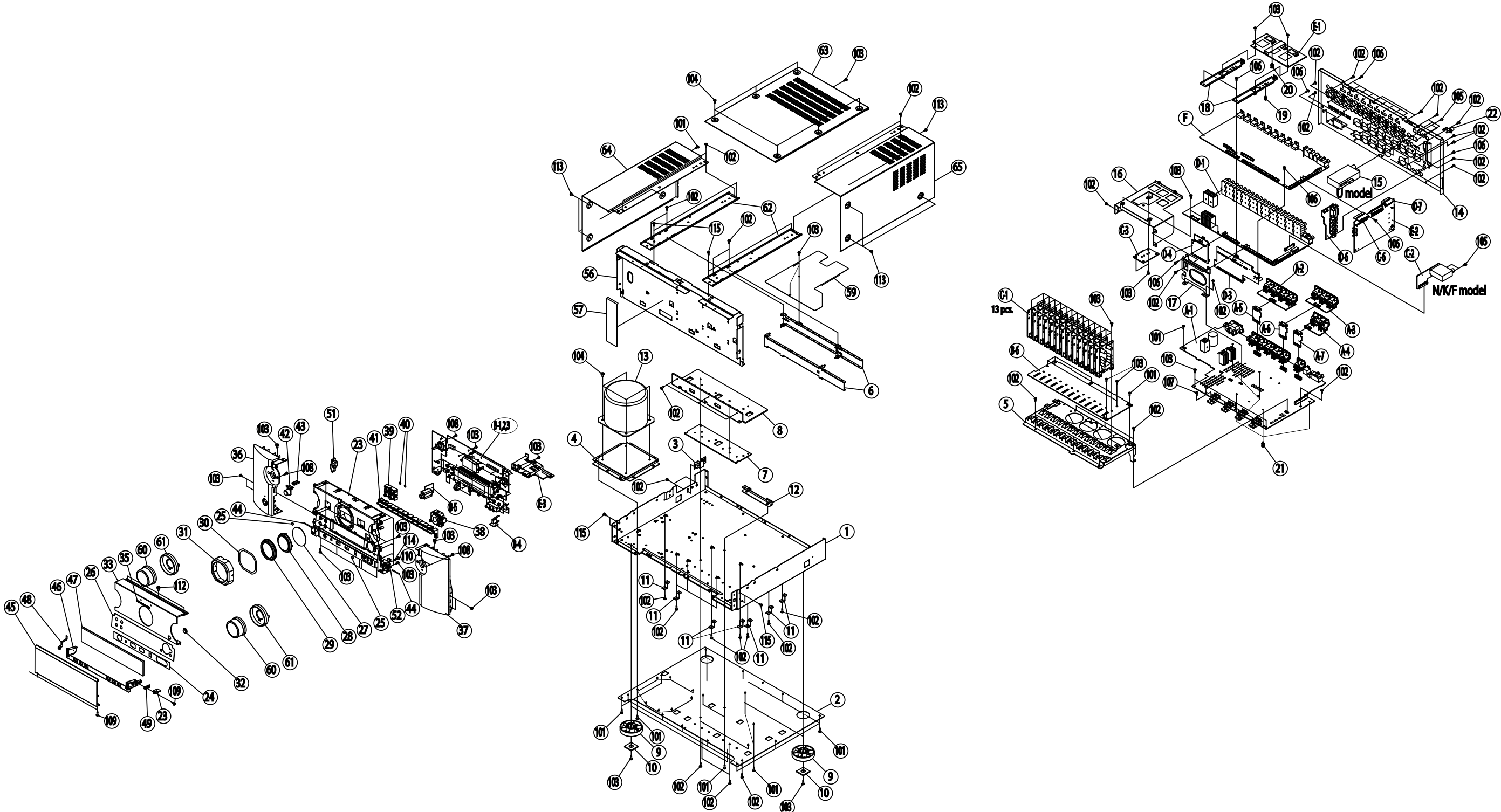








EXPLODED VIEW



WARNING:
Parts marked with this symbol  have critical characteristics.
Use **ONLY** replacement parts recommended by the manufacturer.

PARTS LIST OF EXPLODED VIEW

*Parts indicated by "nsp" on this table cannot be supplied.

*P.W.B. ASS'Y indicated by "nsp" on this table cannot be supplied. When repairing the P.W.B. ASS'Y, check the board parts list and order replacement parts.

*Parts indicated by the "★" mark are not illustrated in the exploded view.

*The parts listed below are only for maintenance. Therefore they might differ from the parts used in the unit in appearances or dimensions.

Note: The symbols in the column "Remarks" indicate the following destinations.

U : U.S.A. & Canada model

N : Europe model

K : China model

F : Japan model

BK : Black model

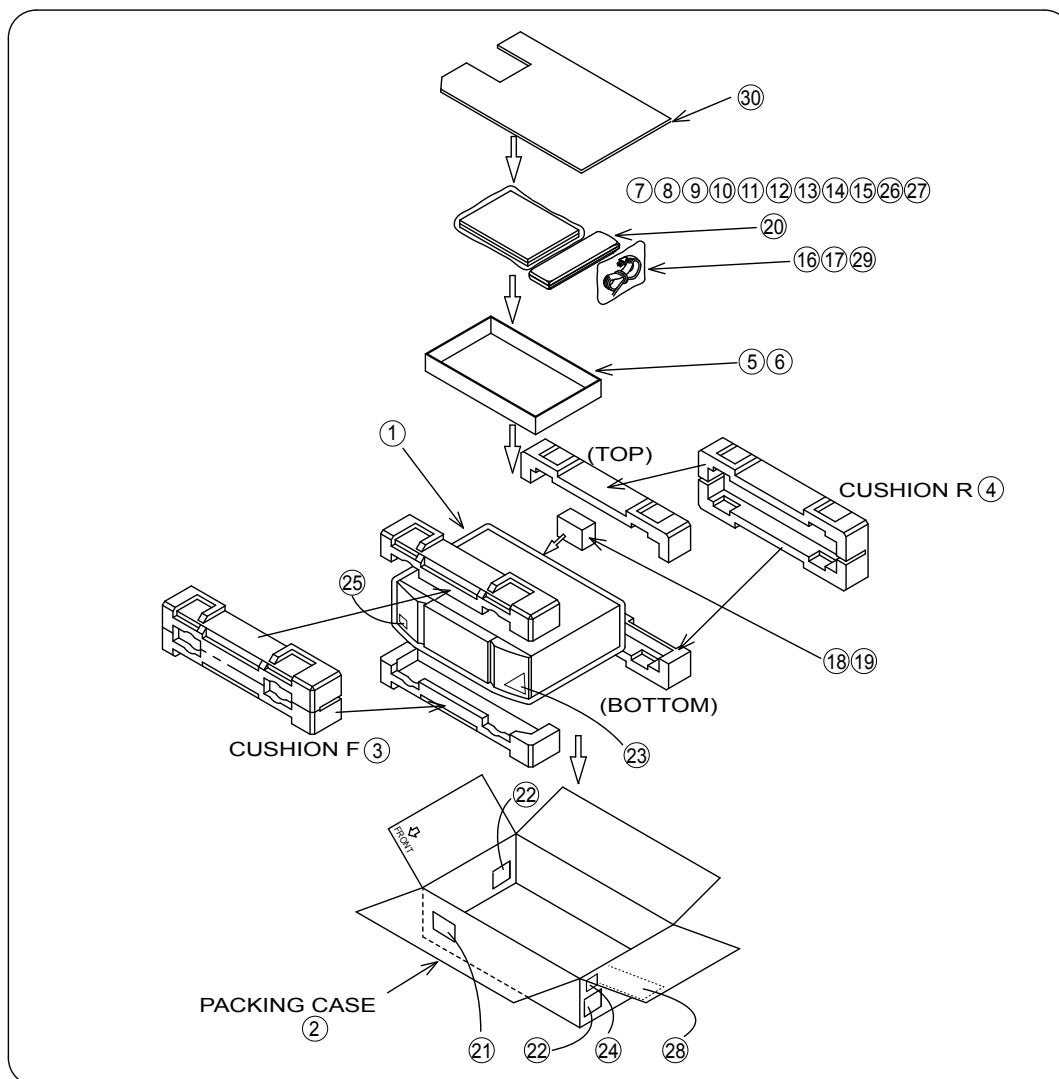
Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
A	nsp	XLR/SMPS PWB ASSY	U		*
A	nso	XLR/SMPS PWB ASSY	N,K		*
A	nsp	XLR/SMPS PWB ASSY	F		*
A-1	-	SMPS/P.SUPPLY UNIT			
A-2	-	XLR TERMINAL1 UNIT			
A-3	-	XLR TERMINAL2 UNIT			
A-4	-	XLR TERMINAL3 UNIT			
A-5	-	XLR CONNECT UNIT			
A-6	-	XLR CONNECT UNIT			
A-7	-	XLR CONNECT UNIT			
B	nsp	FRONT PWB ASSY			*
B-1,2,3	-	FRONT UNIT			
B-4	-	DOOR SW UNIT			
B-5	-	H/P UNIT			
B-6	-	HDAM CONNECT UNIT			
C	nsp	HDAM/XLR-AMP PWB ASSY	U		*
C	nsp	HDAM/XLR-AMP PWB ASSY	N,K		*
C	nsp	HDAM/XLR-AMP PWB ASSY	F		*
C-1	-	HDAM/XLR-AMP UNIT			
C-2	-	TUNER UNIT	N,K,F		
C-3	-	VH JOINT UNIT			
C-6	-	BRIDGE UNIT			
D	nsp	A.AUDIO/VIDEO PWB ASSY	U		*
D	nsp	A.AUDIO/VIDEO PWB ASSY	N,K		*
D	nsp	A.AUDIO/VIDEO PWB ASSY	F		*
D-1	-	AUDIO/VIDEO UNIT			
D-3	-	CONNECT1 UNIT			
D-4	-	CONNECT2 UNIT			
D-6	-	232C UNIT			
D-7	-	BRIDGE UNIT			
E	8U-310115D	NETWORK/DSP PWB ASSY	U		*
E	8U-310115E	NETWORK/DSP PWB ASSY	N		*
E	8U-310115F	NETWORK/DSP PWB ASSY	F		*
E	8U-310115G	NETWORK/DSP PWB ASSY	K		*
E-1	-	DSP UNIT			
E-2	-	NETWORK UNIT			
E-3	-	FRONT HDMI USB UNIT			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	F	8U-310116D	DIGITAL PWB ASSY	U		*
	F	8U-310116E	DIGITAL PWB ASSY	N		*
	F	8U-310116F	DIGITAL PWB ASSY	F		*
	F	8U-310116G	DIGITAL PWB ASSY	K		*
	★	nsp	SHIELD PLATE(AV)		1	
	★	nsp	RUBBER SHEET (AV)		3	
	1	nsp	MAIN CHASSIS		1	*
	2	nsp	BOTTOM PLATE		1	*
	3	nsp	SIDE BRACKET		1	
	4	nsp	TRANS PLATE		1	*
	5	nsp	HDAM BRACKET		1	*
	6	nsp	HDAM STAY		2	*
	7	nsp	PLATE RADIATOR AV8801 A368		1	*
	8	nsp	RADIATOR PLATE L		1	*
	9	00M243W057210	FOOT SL		4	
	10	00M32CW107010	CUSHION FOOT CHG1A360		4	
	11	nsp	BRACKET POWER		9	
	12	nsp	BRACKET MOUNT PWB AV8801 A368		1	*
△	13	10101018303AS	MAIN TRANS(AV8801F Toroidal)	F	1	*
△	13	10101018302AS	MAIN TRANS(AV8801K Toroidal)	K	1	*
△	13	10101018301AS	MAIN TRANS(AV8801N Toroidal)	N	1	*
△	13	10101018300AS	MAIN TRANS(AV8801U Toroidal)	U	1	*
	14	40631011810AM	BACK PANEL	U	1	*
	14	40631011811AM	BACK PANEL	N	1	*
	14	40631011812AM	BACK PANEL	K	1	*
	14	40631011813AM	BACK PANEL	F	1	*
	15	183010011100S	HD TUNER(KSM-H7101NNH-000)	U	1	
	16	nsp	PWB BRACKET (SMPS COVER)		1	
	17	nsp	PWB BRACKET (CONNECT)		1	*
	18	nsp	PWB BRACKET (DSP STAY)		2	
	19	nsp	CARD SPACER (L=6)		1	
	20	nsp	CARD SPACER (L=8)		1	
	21	nsp	CARD SPACER (L=12)		5	
	22	nsp	TERMINAL ASS		1	
	-	nsp	CORD HOLDER (L76)		2	
	23	443510045206M	FRONT INNER PANEL BL SR7005 A332		1	
	24	42251005000AM	PLATE JACK BL AV8801 A368		1	*
	25	471510026002M	BUFFER DOOR UD9004 37AK		2	
	26	41651008100AM	WINDOW DOOR BL AV8801 A368		1	*
	27	41651008900AM	WINDOW FILTER		1	*
	28	416510046009M	WINDOW CENTER SR7005 A332		1	
	29	424410019009M	RING CENTER BL SR7005 A332		1	
	30	451510099006M	SHEET MEDIUM SR7005 A332		1	
	31	481510018107M	LENS RING SR7005 A332		1	
	32	481510019100M	LENS IR BL SR7005 A332		1	
	33	40231027900AM	FRONT PANEL BL AV8801 (U) A368	U	1	*
	33	40231027901AM	FRONT PANEL BL AV8801 (N) A368	N,K	1	*
	33	40231027902AM	FRONT PANEL BL AV8801 (F) A368	F	1	*
	35	421410006004M	MARANTZ BADGE (AL) FOR M1 MODEL		1	
	36	40251028000AM	ESCUTCHEON L BL AV8801 A368		1	*
	37	402510146009M	ESCUTCHEON R BL SR7005 A332		1	

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	38	411510121004M	BUTTON CURSOR BL SR7005 A332		1	
	39	411510120001M	BUTTON 4KEY BL SR7005 A332		1	
	40	451510098003M	SHEET BUTTON SR7005 A332		2	
	41	411510122007M	BUTTON 11KEY BL SR7005 A332		1	
	42	411510021005M	BUTTON BL		1	
	43	481510020001M	LENS STANDBY SR7005 A332		1	
	44	461310010002M	SHAFT DOOR SR7005 A332		2	
	45	415410023103M	DOOR BL SR7005 A332		1	
	46	417510015008M	HINGE DOOR BL SR7005 A332		1	
	47	42251005100AM	COVER DOOR INNER BL AV8801 A368		1	*
	48	nsp	SPRING DOOR SR7005 A332		1	
	49	nsp	BRACKET DOOR SR7005 A332		1	
	★	521550006000P	P-WASHER WITH ADHESIVE		1	
	51	474510008003M	DAMPER DOOR SR7005 A332		1	
	52	457010003008M	MAGNET DOOR SR7005 A332		1	
	★	nsp	PLATE EARTH SR7005 A332		2	
	★	nsp	SHEET		1	
	56	nsp	FRONT CHASSIS		1	
	57	nsp	PC SHEET		1	
	58	nsp	PC WASHER		2	
	59	nsp	FFC HOLDER (FLD)		1	
	★	nsp	WIRE CLAMPER		25	
	60	41201009400AM	KNOB BL AV8801 A368		2	*
	61	424510004006M	RING VOLUME BL PM7003 24AJ		2	
	62	nsp	TOP COVER STAY		2	*
	63	40331006810AM	TOP COVER CENTER		1	*
	64	40331006900AM	TOP COVER (L)		1	*
	65	40331007000AM	TOP COVER (R)		1	*
	★	nsp	7P 220mm PH-PH		1	
	★	nsp	3P 260mm EH-EH		1	
	★	nsp	3P 70mm PH-PH		1	
	★	nsp	3P 340mm PH-PH		1	
	★	nsp	5P 100mm PH-PH		1	
	★	nsp	14P 210mm PH-PH		1	
	★	nsp	9P 240mm PH-PH		1	
	★	nsp	10P 290mm PH-PH		1	
	★	nsp	11P 260mm PH-PH		1	
	★	nsp	12P 260mm PH-PH		1	
	★	nsp	14P 300mm PH-PH		1	
	★	nsp	15P 230mm PH-PH		1	
	★	nsp	16P 250mm PH-PH		1	
	★	nsp	7P 420mm PH-ZH		1	
	★	nsp	13P 380mm PH-ZH		1	
	★	nsp	7P 450mm PH-PH		1	
	★	60605016103AS	FFC 40P 350mm 1.0mm		1	
	★	60605016104AS	FFC 25P 350mm 1.0mm		1	
	★	60605016201AS	FFC 33P 130mm 1.25mm		1	
	★	60605016200AS	FFC 13P 80mm 1.25mm	U	1	
	★	60605016102AS	FFC 11P 80mm 1.0mm		1	
	★	nsp	5P 250mm EH-EH		1	
	★	nsp	2P 120mm VA-VA		1	
	★	nsp	5P 530mm PH-PH (USB)		1	

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	101	nsp	SCREW		23	
	102	nsp	3x10 CBTS(B)-CU		111	
	103	nsp	SCREW		102	
	104	nsp	SCREW		10	
	105	nsp	SCREW		2	
	106	nsp	SCREW		18	
	107	nsp	SCREW 3X10 (+)BH MS CU CLEAR		4	
	108	nsp	SCREW		4	
	109	nsp	SCREW		3	
	110	nsp	3X8 CBTS (P)-Z		2	
	111	nsp	SPECIAL SCREW		1	
	112	nsp	SCREW		3	
	113	nsp	B.T.SCREW EX600240		7	
	114	nsp	3W		2	
	115	nsp	SCREW		8	

PACKING VIEW



PARTS LIST OF PACKING & ACCESSORIES

*Parts indicated by "nsp" on this table cannot be supplied.

*Parts indicated by the "★" mark are not illustrated in the exploded view.

*The parts listed below are only for maintenance. Therefore they might differ from the parts used in the unit in appearances or dimensions.

Note: The symbols in the column "Remarks" indicate the following destinations.

U : U.S.A. & Canada model

N : Europe model

K : China mode

F : Japan model

BK : Black model

Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
1	nsp	CABINET SHEET		1	
2	53121026900AM	CARTON CASE		1	*
3	53361007201AM	CUSHION F SR7005 A332		1	*
4	53361007301AM	CUSHION R SR7005 A332		1	*
5	nsp	PAD		1	*
6	nsp	ACCESSORY BOX	U,N,K	2	*
6	nsp	ACCESSORY BOX	F	1	
7	nap	ENVELOPE	U,N,K	1	*
7	nsp	ENVELOPE (ZIPPER A4 CAUTION)	F	1	*
8	35201019000AM	INST. MANUAL (CD-ROM)	U	1	*
8	35201019700AM	INST. MANUAL (N CD-ROM)	N	1	*
		Disk1:DEU.ENG.ESP.FRA.ITA.			

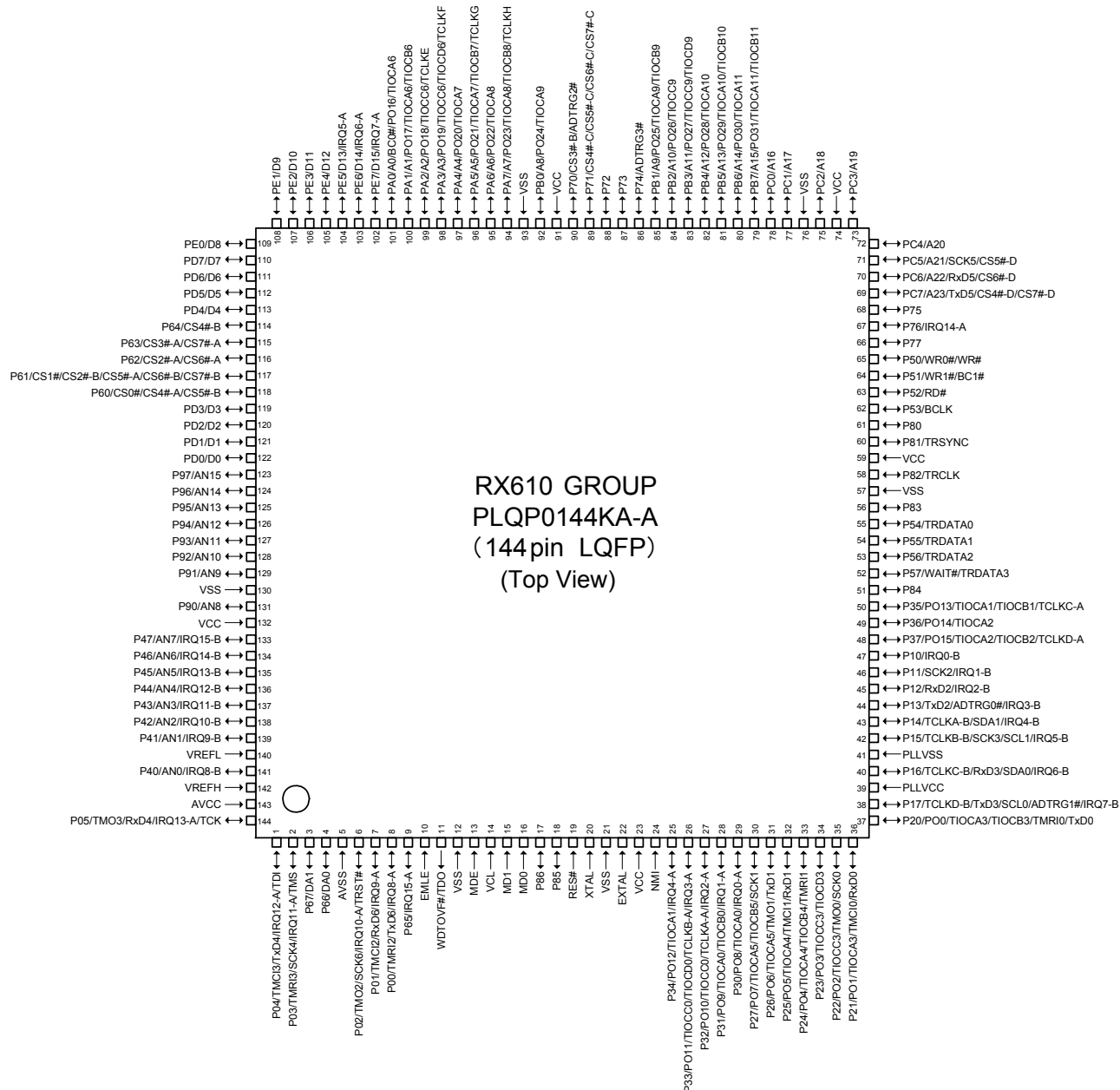
	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New	
	8	35201020200AM	INST. MANUAL (N CD-ROM) Disk2:NED.POL.RUS.SVE.	N	1	*	△
	8	35201019900AM	INST. MANUAL (K CD-ROM)	K	1	*	
	8	35201019800AM	INST. MANUAL (F CD-ROM)	F	1	*	
	9	54111097300AM	GETTING STARTED	U	1	*	
	9	54111098400AM	GETTING STARTED (N)	N	1	*	
	9	54111098700AM	GETTING STARTED (K)	K	1	*	
	9	54111098500AM	GETTING STARTED (F)	F	1	*	
	10	54311022900AM	SAFETY INSTRUCTIONS (U)	U	1	*	
	10	54311022901AM	SAFETY INSTRUCTIONS (N)	N	1	*	
	10	54311022903AM	SAFETY INSTRUCTIONS (K)	K	1	*	
	10	54311022902AM	SAFETY INSTRUCTIONS (F)	F	1	*	
	11	nsp	WARRANTY USA	U	1		
	12	nsp	WARRANTY CANADA	U	1		
	13	11601001400AS	AM ANTENNA(ANTA12G)	U	1		
	14	11601001100AS	FM ANT ASSY		1		
	15	nsp	BATTERY (R03X2) EASTPOWER		1		△
△	16	611050024005S	AC CORD SET(E3) V	U	1		
△	16	00MZC01803080	# 2P AC CORD 10A 250V CLASS2	N	1		
△	16	00D2062249001	AC CORD (E1C)	K	1		
△	16	61105004200AS	OFC AC CORD SET(H20)	F	1		
	17	nsp	POLY COVER	U,N,K	1		
	17	nsp	ENVELOPE	F	1	*	△
	18	32401000800AD	MIC AUDYSSEY ACM1HB		1		
	19	nsp	POLY COVER		1		
	20	30701012600AM	RC019SR REMOTE CONTROLLER		1	*	
	21	nsp	CARTON LABEL (U)	U	1	*	
	21	nap	CARTON LABEL (N)	N	1	*	△
	21	nsp	LABEL AAC SR7005 A332	F	1	*	△
	22	nsp	CONT LABEL SUB ASSY		1	*	
	23	nsp	POP LABEL (U)	U,N	1	*	△
	23	nsp	POP LABEL (K)	K	1		△
	23	nsp	POP LABEL (F)	F	1		△
	24	nsp	MAC ADDRESS SUB ASSY		1		
	25	nsp	LABEL POWER ON/STANDBY UD8004 (K) 38AK	K	1		△
	26	nsp	SHEET SERVICE ADRESS (F)	F	1		△
	27	nsp	USER CARD (F)	F	1		△
	28	nsp	WARRANTY CHINA MZ	K	1		△
	28	nsp	WARRANTY F (HOSHOUHO)	F	1		△
	29	18901004900AS	ANTENNA ISOLATOR	K	1		△
	30	nsp	PAD		1		△

SEMICONDUCTORS

Only major semiconductors are shown. General semiconductors etc. are omitted from list.
The semiconductors which have a detailed drawing in a schematic diagram are omitted from list.

1. IC's

R5F56108VNFP (DIGITAL : U2001)



R5F56108VNFP Terminal Functions

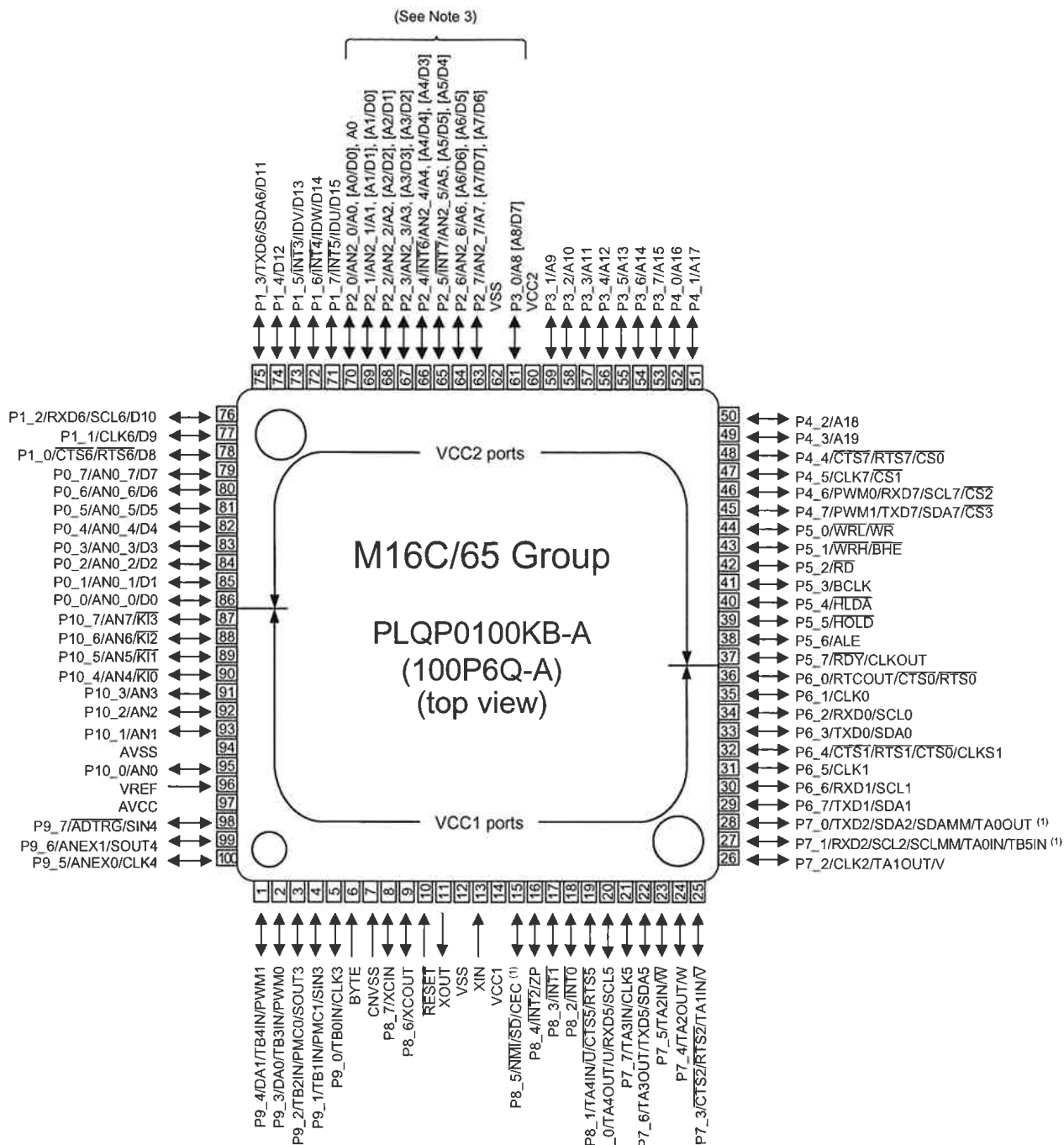
Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	STOP	CEC STBY	Function
1	P04/IRQ12-A/TMC13/ TxD4/TDI	TDI/TXD MITSUBISHI/ NC(NORMAL)	I/O/I	M3VPu		-/I	-/I	I	E20 Emulator control signal/Mitsubishi Programer/Nomal:Input
2	P03/IRQ11-A/TMR13/ SCK4/TMS	TMS/ NC(NORMAL)	I/I	M3VPu		-/I	-/I	I	E20 Emulator control signal/Nomal:Input
3	P67/DA1	USB SEL	O			L	L	L	USB control pin
4	P66/DA0	USB EN	O			L	L	L	USB control pin
5	AVSS	AVSS	-			-	-	-	NC
6	P02/IRQ10-A/TMO2/ SCK6/TRST#	TRST#/ NC(NORMAL)	I/I	Pd		I/I	I/I	I	E20 Emulator control signal/Nomal:Input
7	P01/IRQ9-A/TMC12/ RxD6	RXD MI232O	I	M3VPu		I	I	I	Data received from the external pin(AMX)/ Use for firmware upgrading by DFW.:FFC Connect
8	P00/IRQ8-A/TMR12/ TxD6	TXD MO232I	O			L	L	L	Data transfer to external pin(AMX)/Use for firmware upgrading by DFW.:FFC Connect
9	P65/IRQ15-A	POWER KEY	I	M3VPu		I	I	I	POWER KEY (Waiting Mode cancel, interrupt port)
10	EMLE	EMLE	I	Pd		-	-	-	E20Emulator control signal"H":No OP,"L"OP(When CPU-One chip OP., Need to pull down)
11	WDTOVF#/TDO	TDO/WDTOVF#	O/O			-	-	-	E20Emulator control signal
12	VSS	VSS	I			-	-	-	GND
13	MDE	MDE	I	Pd		-	-	-	Endian select(L:LittleEndian)
14	VCL	VCL	I			-	-	-	VSS need to 0.1μF
15	MD1	MD1	I	M3VPu		-	-	-	Select BootMode,UserBootMode(SingleCh ipMode:SingleChipMode:MD0=1,MD1=1)/
16	MD0	MD0	I	M3VPu		-	-	-	E20Emulato rcontrol signal
17	P86	232C CONTROL(SUB LOG MODE)	O			L	L	L	SUB LOG MODE 232C course switching control
18	P85	REMOTE POWER(232C)	O			L	L	L	232C POWER SUPPLY (REMOTE 3.3V) control pin.(ON: H)
19	RES#	RESET	I			-	-	-	Reset input (reset: L)
20	XTAL	XTAL	I			-	-	-	Clock input(12MHz)
21	VSS	VSS	-			-	-	-	GND
22	EXTAL	EXTAL	-			-	-	-	Clock output(12MHz)
23	VCC	VCC	-			-	-	-	+3.3V
24	NMI	NMI	I	M3VPu		-	-	-	PullUp
25	P34/IRQ4-A/PO12/ TIOCA1	BDOWN	I			I	I	I	Power failure detection pin(Power failure:L)
26	P33/IRQ3-A/PO11/ TIOCC0/TIOCD0/ TCLKB-A	PLDAERR	I			L	L	L	PLD ERROR detection pin(APLD output)
27	P32/IRQ2-A/PO10/ TIOCC0/TCLKA-A	NC	O/I			L/I	L/I	L/I	NC
28	P31/IRQ1-A/PO9/ TIOCA0/TIOCB0	NC	O			L	L	L	NC
29	P30/IRQ0-A/PO8/ TIOCA0	RC IN	I			I	I	I	Remote control signal input pin
30	P27/PO7/TIOCA5/ TIOCB5/SCK1	NC	O			L	L	L	NC
31	P26/PO6/TIOCA5/ TMO1/TxD1	NC	O			L	L	L	NC
32	P25/PO5/TIOCA4/ TMC11/RxD1	NC	O			L	L	L	NC
33	P24/PO4/TIOCA4/ TIOCB4/TMR11	TU RST/HDRADIO RESET	O	SW3VPu		L	L	L	TUNER control pin/HD RADIO control pin
34	P23/PO3/TIOCC3/ TIOCD3	E RESET	O(ODR)	N3VPu		L	L	L	ETHERNET RESET control pin(DM860A)
35	P22/PO2/TIOCC3/ TMO0/SCK0	E POWER	O			L	L	L	ETHER POWER control pin(DM860A)
36	P21/PO1/TIOCA3/ TMC10/RxD0	E_RXDMIEO	I			I	I	I	ETHERNET communication control pin (DM860A)
37	P20/PO0/TIOCA3/ TIOCB3/TMR10/TxD0	E_TXDMOEI	O			L	L	L	ETHERNET communication control pin (DM860A)

Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	STOP	CEC STBY	Function
38	P17/IRQ7-B/TCLKD-B/ TxD3/SCL0/ADTRG1#	HDRADIO MOHI(NA)/TU SCLK	O/I_O			L	L	L	HDRADIO/TUNER control pin
39	PLLVC	PLLVC	-			-	-	-	PLL Power
40	P16/IRQ6-B/TCLKC-B/ RxD3/SDA0	HDRADIO MIHO(NA)/TU SDIO	I/I_O			L	L	L	HDRADIO/TUNER control pin
41	PLLVS	PLLVS	-			-	-	-	GND
42	P15/IRQ5-B/TCLKB-B/ SCK3/SCL1	NC	O			L	L	L	NC
43	P14/IRQ4-B/TCLKA-B/ SDA1	NC	O			L	L	L	NC
44	P13/IRQ3-B/TxD2/ ADTRG0#	ADV8003 SPI MO	O			L	L	L	GUI control pin(ADV8003)
45	P12/IRQ2-B/RxD2	ADV8003 SPI MI	I			L	L	L	GUI control pin(ADV8003)
46	P11/IRQ1-B/SCK2	ADV8003 SPI CLK	O			L	L	L	GUI control pin(ADV8003)
47	P10/IRQ0-B	ADV8003 SPI CS	O			L	L	L	GUI control pin(ADV8003)
48	P37/PO15/TIOCA2/ TIOCB2/TCLKD-A	EEPROM SDA	I_O	M3VPu		I	I	I	EEPROM control pin
49	P36/PO14/TIOCA2	EEPROM SCL	O	M3VPu		I	I	I	EEPROM control pin
50	P35/PO13/TIOCA1/ TIOCB1/TCLKC-A	NC	O			L/H	L/L	L/H	NC
51	P84	NC	O			L	L	L	NC
52	P57/WAIT#/TRDATA3	NC	O			L	L	L	NC
53	P56/TRDATA2	E SPI MOEI	O	N3VPu		L	L	L	ETHERNET communication control pin (DM860A)
54	P55/TRDATA1	NC	O			L	L	L	NC
55	P54/TRDATA0	E SPI MIEO	I	N3VPu		I	L	I	ETHERNET communication control pin (DM860A)
56	P83	E SPI CLK	O	N3VPu		L	L	L	ETHERNET communication control pin (DM860A)
57	VSS	VSS	-			-	-	-	GND
58	P82/TRCLK	FL CE1	O			L	L	L	VFD control pin
59	VCC	VCC	-			-	-	-	+3.3V
60	P81/TRSYNC	FL RST	O			L	L	L	VFD control pin
61	P80	ZVOL DATA	O			L	L	L	ZONE VOL. Control pin (NJW1194)
62	BCLK/P53	NC	I/I	M3VPu/-		I/I	I/I	I/I	NC
63	P52/RD#	ZVOL CLK	O			L	L	L	ZONE VOL. Control pin (NJW1194)
64	P51/WR1#/BC1#	ZVOLSTB	O			L	L	L	ZONE VOL. Control pin (NJW1194)
65	P50/WR0#/WR#	NC	O			L	L	L	NC
66	P77	NC	O			L	L	L	NC
67	P76/IRQ14-A	TU GPO2_INT	I			L	L	L	TUNER GPIO2 input pin
68	P75	SUB UPDATE	O			L	L	L	SUB UPDATEmode control(DPMS WRITTER)."L". SUB Program mode "H",then SUB RST.
69	PC7/A23/CS4#-D/ CS7#-D/TxD5	MOSI	O			L	L	L	MAIN-SUB CPU Communication control output
70	PC6/A22/CS6#-D/RxD5	SOMI	I			I	L	I	MAIN-SUB CPU Communication control input
71	PC5/A21/CS5#-D/ SCK5	CLK MO	O			L	L	L	MAIN-SUB CPU Communication control output
72	PC4/A20	RST SUB	O			L	L	L	MAIN-SUB CPU Communication control output
73	PC3/A19	ACK SIMO	O			L	L	L	MAIN-SUB CPU Communication control output
74	VCC	VCC	-			-	-	-	+3.3V
75	PC2/A18	SUB CPU POWER	O			L	L	L	SUB CPU POWER (H:ON)
76	VSS	VSS	-			-	-	-	GND
77	PC1/A17	GRN LED	O			L	L	L	POWER LED control pin(ON:H)
78	PC0/A16	RED LED	O			L/H	L	H	POWER/STANDBY LED control pin (ON:H)
79	PB7/A15/PO31/ TIOCA11/TIOCB11	DIG FANDET	I	M3VPu		I	L	I	NC
80	PB6/A14/PO30/ TIOCA11	DIG FANCONT ON	O			L	L	L	NC
81	PB5/A13/PO29/ TIOCA10/TIOCB10	NC	O			L	L	L	NC
82	PB4/A12/PO28/ TIOCA10	TU_SEN	O			L	L	L	TUNER control pin

Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	STOP	CEC STBY	Function
83	PB3/A11/PO27/ TIOCC9/TIOCD9	NC	O			L	L	L	NC
84	PB2/A10/PO26/ TIOCC9	C	O			L	L	L	NC
85	PB1/A9/PO25/TIOCA9/ TIOCB9	V FANDET	I	M3VPu		I	L	I	NC
86	P74/ADTRG3#	V FANCONT ON	O			L	L	L	NC
87	P73	AEXP OE	O			L	L	L	EXPANDER control pin(AUDIO MUTE)
88	P72	AEXP CLK	O			L	L	L	EXPANDER control pin(AUDIO MUTE)
89	P71/CS4#-C/CS5#-C/ CS6#-C/CS7#-C	AEXP DATA	O			L	L	L	EXPANDER control pin(AUDIO MUTE)
90	P70/CS3#-B/ADTRG2#	AEXP STB	O			L	L	L	EXPANDER control pin(AUDIO MUTE)
91	VCC	VCC	-			-	-	-	+3.3V
92	PB0/A8/PO24/TIOCA9	NC	O/I			L	L	L	NC
93	VSS	VSS	-			-	-	-	GND
94	PA7/A7/PO23/TIOCA8/ TIOCB8/TCLKH	NC	O			L	L	L	NC
95	PA6/A6/PO22/TIOCA8	VSEL A	I			I	I	I	Master Volume rotation detection pin(Rotary encoder)
96	PA5/A5/PO21/TIOCA7/ TIOCB7/TCLKG	VSEL B	I			I	I	I	Master Volume rotation detection pin(Rotary encoder)
97	PA4/A4/PO20/TIOCA7	MHL VBUS CONT	O			L	L	L	MHL VBUS control pin
98	PA3/A3/PO19/TIOCC6/ TIOCD6/TCLKF	DAC(ETHER) MUTE	O			L	L	L	DAC MUTE control pin(PCM5100 for DM860A),MUTE ON="L"
99	PA2/A2/PO18/TIOCC6/ TCLKE	HUB SDA	O	HUB3VPu		L	L	L	HUB control pin
100	PA1/A1/PO17/TIOCA6/ TIOCB6	HUB SCL	O	HUB3VPu		L	L	L	HUB control pin
101	PA0/A0/BC0#/PO16/ TIOCA6	HUB CONTROL	O			L	L	L	HUB control pin
102	PE7/IRQ7-A/D15	MHL CABLE DET	I			I	I	I	MHL Cable detection pin
103	PE6/IRQ6-A/D14	(MHL W/U)	I			I	I	I	(MHL WakeUp detection pin)
104	PE5/IRQ5-A/D13	REQ SOMI	I			I	L	I	MAIN-SUB CPU Communication control output
105	PE4/D12	ISEL A	I			I	I	I	Input Selector rotation detection pin(Rotary encoder)
106	PE3/D11	ISEL B	I			I	I	I	Input Selector rotation detection pin(Rotary encoder)
107	PE2/D10	VOL CLK1	O			L	L	L	FUNCTION / VOLUME control pin(R2A15220)
108	PE1/D9	VOL DATA	O			L	L	L	FUNCTION / VOLUME control pin(R2A15220)
109	PE0/D8	VOL CLK2	O			L	L	L	FUNCTION / VOLUME control pin(R2A15220)
110	PD7/D7	(VOL CLK3)	O			L	L	L	NC
111	PD6/D6	MHL POWER	O			L	L	L	MHL(Sil1292) power control pin
112	PD5/D5	ASO DET	I			I	I	I	PROTECTION (ASO) (detect:"L")
113	PD4/D4	DC DET	I			I	I	I	PROTECTION (ASO) (detect:"L")
114	P64/CS4#-B	FANDET_HIGH	I/O			I/L	L/L	I/L	FAN control detection pin (detect:"L")
115	P63/CS3#-A/CS7#-A	FANDET_ON	I/O			I/L	L/L	I/L	FAN control detection pin (detect:"L")
116	P62/CS2#-A/CS6#-A	E SPI CS	O	N3VPu		L	L	L	ETHERNET communication control pin (DM860A)
117	P61/CS1#-B/CS2#-B/ CS5#-A/CS6#-B/ CS7#-B	(FRONT RESET)	O			L	L	L	Reset for Front HDMI(Sil1292)
118	P60/CS0#-A/CS4#-A/ CS5#-B	NC	O			L	L	L	NC
119	PD3/D3	NC	O			L	L	L	NC
120	PD2/D2	NC	O			L	L	L	NC
121	PD1/D1	FL CLK	O			L	L	L	VFD control pin
122	PD0/D0	FL DATA	O			L	L	L	VFD control pin
123	P97/AN15	CURRENT DET	I/O			I/L	L/L	I/L	AMP current detection pin
124	P96/AN14	TR DET (THERMAL)	I/O			I/L	L/L	I/L	TR thermal detection pin
125	P95/AN13	THERMALINA	I/O			I/L	L/L	I/L	PROTECTION detection pin (detect:"L")
126	P94/AN12	THERMALINB	I/O			I/L	L/L	I/L	PROTECTION detection pin (detect:"L")
127	P93/AN11	MAIN POWER	O			L	L	L	MAIN POWER control pin

Pin	Pin Name	Symbol	I/O	Pull up/ down	LvCnv	STBY	STOP	CEC STBY	Function
128	P92/AN10	CPU POWER	O			L	L	L	MAIN CPU POWER control pin(POWER ON:"H",CEC ON STANDBY:"H")
129	P91/AN9	AMPSIGDET	I/O			I/L	L/L	I/L	AMP signal detection pin
130	VSS	VSS	-			-	-	-	GND
131	P90/AN8	MODE	I			I	I	I	Destination detection pin
132	VCC	VCC	-			-	-	-	+3.3V
133	P47/IRQ15-B/AN7	MIC DET	I			I	I	I	MIC Detec(Active:H)
134	P46/IRQ14-B/AN6	H/P DET	I			I	I	I	Headphone Detect(Active:H)
135	P45/IRQ13-B/AN5	KEY3	I	SW3VPu		I	I	I	Button input 3
136	P44/IRQ12-B/AN4	KEY2	I	SW3VPu		I	I	I	Button input 2
137	P43/IRQ11-B/AN3	KEY1	I	SW3VPu		I	I	I	Button input 1
138	P42/IRQ10-B/AN2	E SPI REQ	I	Pd		I	L	I	ETHERNET communication control pin(DM860A)
139	P41/IRQ9-B/AN1	NC	O			L	L	L	NC
140	AVSS	AVSS	-			-	-	-	GND
141	P40/IRQ8-B/AN0	MHL VBUS FLAG	I			I	I	I	MHL VBUS current detection pin
142	VREF	VREF	-			-	-	-	Reference voltage (+3.3V) input pin
143	AVCC	AVCC	-			-	-	-	+3.3V
144	P05/IRQ13-A/TMO3/ RxD4/TCK	TCK/RXD MITSUBISHI/ NC(NORMRAL)	I/I/I	M3VPu		-/-/I	-/-/I	I	E20 Emulator control signal/ Mitsubishi Programer/Nomal OP.:Input

R5F3650NNFB (DIGITAL : U2101)



Notes:

1. N-channel open drain output.
2. Check the position of Pin 1 by referring to appendix 1, Package Dimensions.
3. Pin names in brackets [] represent a single functional signal. They should not be considered as two separate functional signals.

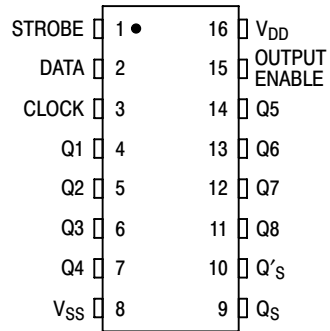
R5F3650NNFB Terminal Functions

Pin	Pin Name	Symbol	I/O	Type	Pu/Pd	STBY	CEC STBY1	CEC STBY2	CEC STBY3	Function
1	P94	NC	O	C	-	Z	-	-	-	NC
2	P93	DIR CE	O	C	-	Z	L	L	L	DIR control pin(LC89057W-VF4A)
3	P92/SOUT3	DIR DIN	O	C	-	Z	L	L	L	DIR control pin(LC89057W-VF4A)
4	P91/SIN3	DIR DOUT	I	-	DA3.3Pu	Z	-	-	-	DIR control pin(LC89057W-VF4A)
5	P90/CLK3	DIR CLK	O	C	-	Z	L	L	L	DIR control pin(LC89057W-VF4A)
6	BYTE	BYTE	-	-	-	-	-	-	-	GND(Ext. data bus bit width switching, 16bit : L)
7	CNVCS	CNVSS	-	-	Pd	-	-	-	-	Single-chip/Micro-processor mode switching (Normal single-chip : L, Rewrite boot program start : H input set)
8	P87	ADC RST	O	C	-	Z	L	L	L	AD control pin(PCM1804)
9	P86	DIR CEZ2	O	C	-	Z	L	L	L	Z2 DIR control pin(LC89057W-VF4A)
10	RESET	SUB RESET	I	-	SCPU3VPu	Z	-	-	-	Reset input
11	XOUT	X1	O	-	-	-	-	-	-	Oscillator connection
12	VSS	VSS	-	-	-	-	-	-	-	GND
13	XIN	X2	I	-	-	-	-	-	-	Oscillator connection
14	VCC	VCC	-	-	-	-	-	-	-	+3.3V
15	P85(N)/(NMI)/(CEC)	NC	I	-	SCPU3VPu	-	-	-	-	NC
16	P84/INT2	CEC_IN	I	-	SCPU3VPu	Z	-	-	-	CEC-D signal input pin
17	P83/INT1	ACK SIMO	I	-	-	Z	-	-	-	MAIN-SUB ucom communication control input pin MAIN ucom Hack from the main "L" Return)
18	P82/INT0	SUB BDOWN	I	-	-	Z	-	-	-	Power failure detect(Power failure:L)
19	P81	NC	O	C	-	Z	-	-	-	NC
20	P80/(RXD5)	NC	O	C	-	Z	-	-	-	NC
21	P77/(CLK5)	SUB TDO	I	-	-	Z	L	L	L	PLD rewriting control (JTAG)
22	P76/(TXD5)	A PLD CS "/D/M"	O	C	Pd	O/L	L	L	L	A PLD control pin/ WRITTER/ MITSUBISHI rewritten for determining (DW :L)
23	P75	A PLD DATA	O	C	-	Z	L	L	L	A PLD control pin
24	P74	A PLD CLK	O	C	-	Z	L	L	L	A PLD control pin
25	P73/CTS2	NC	O	C	-	Z	-	-	-	NC
26	P72/CLK2	DA POWER	O	C	Pd	Z	L	L	L	DIGITAL power (DA3.3V,DA1.1V) ON/OFF control (H: ON)
27	P71(N)/RXD2/SCLMM	HSCL(400k)	I/O	N	CEC3VPu	O/L	O	O	L	VIDEO I2C- ADV8003/ADV7850/Sil9575/Sil1292
28	P70(N)/TXD2/SDAMM	HSDA(400k)	I/O	N	CEC3VPu	O/L	O	O	L	VIDEO I2C- ADV8003/ADV7850/Sil9575/Sil1292
29	P67/TXD1	TXD	O	C	-	Z	L	L	L	Data transmission output to external
30	P66/RXD1	RXD	I	-	-	Z	-	-	-	Data reception input from the external
31	P65/CLK1/SCLK	SCLK	I	-	Pd	Z	-	-	-	Emulator communication pin
32	P64/CTS1	HIN SELA	O	C	NPN Tr	Z	O	O	O	For HDMI +5V selection(TC4051)
33	P63/TXD0	SOMI	O	C	-	Z	-	-	-	MAIN-SUB ucom communication control pin
34	P62/RXD0	SIMO	I	-	-	Z	-	-	-	MAIN-SUB ucom communication control pin
35	P61/CLK0	CLK SIMO	I	-	-	Z	-	-	-	MAIN-SUB ucom communication control pin
36	P60/CTS0	REQ SOMI	O	C	-	Z	-	-	-	MAIN-SUB ucom communication control pin
37	P57	1TMDSSWRST RST	O	C	Pd	Z	H	H	L	HDMI SWITCHER Sil9575 Reset pin
38	P56	DV POWER2	O	C	-	Z	H	L	L	DIGITAL VIDEO power control pin(DV1.8V)
39	P55/EPM	EPM	I	-	Pd	Z	-	-	-	Rewrite boot program start:L input set
40	P54	CEC_OUT	O	C	-	Z	O	O	O	CEC-D signal output pin
41	P53	MHL POWER	O	C	-	Z	H	H	L	MHL Sil1212 power control pin
42	P52	HIN SELC	O	C	NPN Tr	Z	O	O	O	For HDMI +5V selection(TC4051)
43	P51	HIN SELB	O	C	NPN Tr	Z	O	O	O	For HDMI +5V selection(TC4051)
44	P50/CE	CE	O/I	C	SCPU3VPu	Z	-	-	-	Rewrite boot program start:H input set
45	P47/(TXD7)/SDA7	VSDA	I/O	C	AV3VPu	O/L	L	L	L	VIDEO SELECT IC(ADVM2000)
46	P46/(RXD7)/SCL7	VSCL	I/O	C	AV3VPu	O/L	L	L	L	VIDEO SELECT IC(ADVM2000)
47	P45/(CLK7)	ADV8003 INT2	I	-	-	Z	-	-	-	HDMI ADV8003 INT output
48	P44	ADV8003 INT1	I	-	-	Z	-	-	-	HDMI ADV8003 INT output
49	P43	HDMI A.SEL	O	C	-	Z	L	H	L	HDMI AUDIO switch (H : DSP course, L : HDMI Rx→Tx through)(TC74VHC244)
50	P42	NC	O	C	-	Z	-	-	-	NC
51	P41	CEC POWER	O	C	Pd	Z	H	H	L	Power ON (CEC5V,CEC3.3V,CEC1.8V) for CEC STANDBY
52	P40	CEC SEL	O	C	NPN Tr	Z	O	O	O	CEC output LINE switching
53	P37	ADV7850 RST	O	C	Pd	Z	H	H	L	Reset for HDMI ADV7850
54	P36	ADV8003 RST	O	C	Pd	Z	H	L	L	Reset for HDMI ADV8003
55	P35	CECSEL2	O	C	NPN Tr	Z	O	O	O	CEC output LINE switching
56	P34	MHL VBUS CONT	O	C	-	Z	O	O	O	MHL VBUS control pin
57	P33	DACRST2	O	C	-	Z	L	L	L	DAC control pin(PCM1795)
58	P32	DAC MDI	O	C	-	Z	L	L	L	DAC control pin(PCM1795)
59	P31	DAC MC	O	C	-	Z	L	L	L	DAC control pin(PCM1795)
60	VCC	VCC	-	-	-	-	-	-	-	+3.3V
61	P30	DAC MS1	O	C	-	Z	L	L	L	DAC control pin(PCM1795)

Pin	Pin Name	Symbol	I/O	Type	Pu/Pd	STBY	CEC STBY1	CEC STBY2	CEC STBY3	Function
62	VSS	VSS	-	-	-	-	-	-	-	GND
63	P27	DAC RST1	O	C	-	Z	L	L	L	DAC control pin(PCM1795)
64	P26	DV POWER1	O	C	NPN Tr	z	H	L	L	DIGITAL VIDEO power control pin (DV5V,DV3.3V)
65	P25/INT7	ADV7850 INT1	I	-	CEC3VPu	Z	-	-	-	HDMI ADV7850 INT output
66	P24/INT6	ADV7850 INT2	I	-	CEC3VPu	Z	-	-	-	HDMI ADV7850 INT output
67	P23	SUB TMS	O	C	DA3.3Pu	Z	L	L	L	PLD rewriting control (JTAG)
68	P22	DAC MS2	O	C	-	Z	L	L	L	DAC control pin(PCM1795)
69	P21	OSR1	O	C	-	Z	L	L	L	AD control pin(PCM1804)
70	P20	OSR2	O	C	-	Z	L	L	L	AD control pin(PCM1804)
71	P17/INT5	SII INT	I	-	CEC3VPu	Z	-	-	-	HDMI SII9575 INT output
72	P16/INT4	FRONT INT	I	-	SCPU3VPu	Z	-	-	-	INT pin for Front HDMI(SII1292)
73	P15/INT3	H5V DET	I	-	Pd	Z	-	-	-	HDMI IN 5V DET
74	P14	MHL VBUS FLAG	I	-	Pd	Z	-	-	-	MHL VBUS current detection pin
75	P13/TXD6	DSP MOSI	O	C	DA3VPu	Z	L	L	L	DSP control pin
76	P12/RXD6	DSP MISO	I	-	DA3VPu	Z	-	-	-	DSP control pin
77	P11/CLK6	DSPICLK	O	C	DA3VPu	Z	L	L	L	DSP control pin
78	P10	MHL CABLE DET	I	-	Pd	Z	-	-	-	MHL Cable detection pin
79	P07	SUB TDI	O	C	DA3.3Pu	Z	L	L	L	PLD rewriting control (JTAG)
80	P06	NC	O	C	-	z	-	-	-	NC
81	P05	NC	O	C	-	Z	-	-	-	NC
82	P04	NC	O	C	-	Z	-	-	-	NC
83	P03	SUB TCK	O	C	Pd	Z	L	L	L	PLD rewriting control (JTAG)
84	P02	NC	O	C	-	Z	-	-	-	NC
85	P01	NC	O	C	-	Z	-	-	-	NC
86	P00	DIR RST1	O	C	-	O/L	L	L	L	DIR control pin (LC89057W-VF4A)
87	P107/(AN7)	DSP1 RST	O	C	-	Z	L	L	L	DSP reset output pin (Reset:L)
88	P106/(AN6)	DSP2 RST	O	C	-	Z	L	L	L	DSP control pin
89	P105/(AN5)	DSP ROMRST	O	C	-	Z	L	L	L	Memory reset for DSP(Reset:L)
90	P104/(AN4)	DSP2 FLAG0	I	-	Pd	Z	-	-	-	DSP control pin
91	P103/(AN3)	DSP1 FLAG0	I	-	Pd	Z	-	-	-	DSP control pin
92	P102/(AN2)	DSP1 CS	O	C	DA3VPu	Z	L	L	L	DSP control pin
93	P101/(AN1)	DSP2 CS	O	C	DA3VPu	Z	L	L	L	DSP control pin
94	AVSS	AVSS	-	-	-	-	-	-	-	AD GND
95	P100/(AN0)	DSP RST3	O	C	-	Z	L	L	L	DSP control pin
96	VREF	VREF	-	-	-	-	-	-	-	AD standard +3.3V
97	AVCC	AVCC	-	-	-	-	-	-	-	AD +3.3V
98	P97/(SIN4)	FRONT RESET	O	C	-	Z	H	H	L	Reset for Front HDMI(SII1292)
99	P96/(SOUT4)	DSP3 CS	O	C	DA3VPu	Z	L	L	L	DSP control pin
100	P95/(CLK4)	DSP3 FLAG0	I	-	Pd	Z	-	-	-	DSP control pin

MC14094BDTR2G (A.AUDIO/VIDEO : U3001, U3002, U3003, U3004)

PIN ASSIGNMENT



TRUTH TABLE

Clock	Output Enable	Strobe	Data	Parallel Outputs		Serial Outputs	
				Q1	Q _N	Q _S *	Q'S
	0	X	X	Z	Z	Q7	No Chg.
	0	X	X	Z	Z	No Chg.	Q7
	1	0	X	No Chg.	No Chg.	Q7	No Chg.
	1	1	0	0	Q _N -1	Q7	No Chg.
	1	1	1	1	Q _N -1	Q7	No Chg.
	1	1	1	No Chg.	No Chg.	No Chg.	Q7

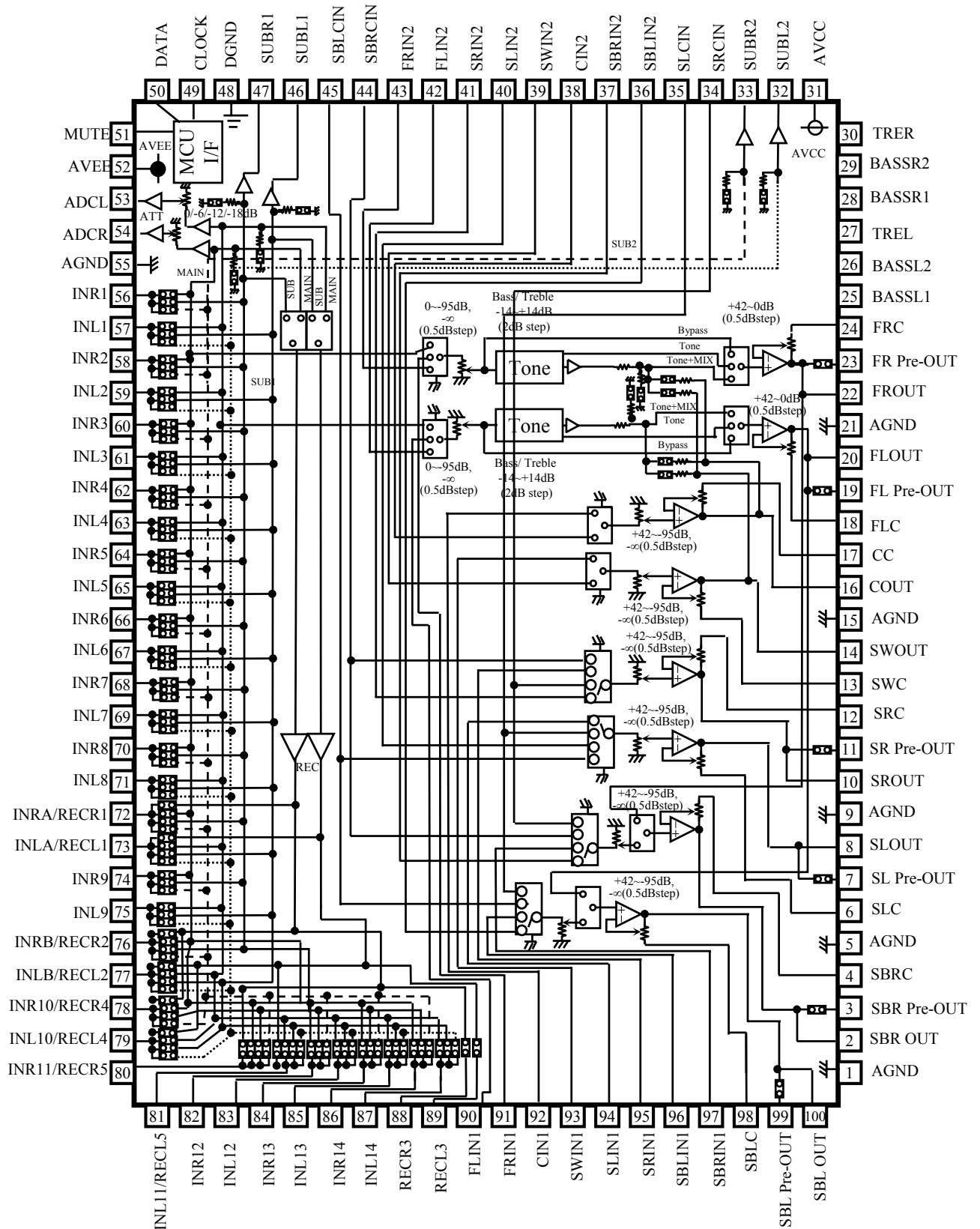
Z = High Impedance X = Don't Care

* At the positive clock edge, information in the 7th shift register stage is transferred to Q8 and Q_S.

MC14094BDTR2G Terminal Functions

Device	Pin Name	I/O	STBY	STOP	CEC STBY	Function
A/V:U3001	PRERL_FW	O	L	L	L	PRE OUT Mute control
	PRERL_FH	O	L	L	L	PRE OUT Mute control
	PRERL_SB	O	L	L	L	PRE OUT Mute control
	PRERL_SW2	O	L	L	L	PRE OUT Mute control
	PRERL_SW1	O	L	L	L	PRE OUT Mute control
	PRERL_C	O	L	L	L	PRE OUT Mute control
	PRERL_S	O	L	L	L	PRE OUT Mute control
A/V:U3002	PRERL_F	O	L	L	L	PRE OUT Mute control
	PRERL_Z2	O	L	L	L	Z2 PRE OUT Mute control
	PRERL_Z3	O	L	L	L	Z3 PRE OUT Mute control
	H/PRL	O	L	L	L	HEADPHONE Relay control
	TRIGGER OUT 2	O	L	L	L	TRIGGER OUT control
	BRL_HIGH	O	L	L	L	HIGH B Relay control
	NC	O	L	L	L	NC
A/V:U3003	NC	O	L	L	L	NC
	TRIGGER OUT 1	O	L	L	L	TRIGGER OUT control
	SPRL_SB_EX2	O	L	L	L	Speaker Relay control
	SPRL_SB_EX1	O	L	L	L	Speaker Relay control
	SPRL_SB	O	L	L	L	Speaker Relay control
	SPRL_S	O	L	L	L	Speaker Relay control
	SPRL_C	O	L	L	L	Speaker Relay control
A/V:U3004	SPRL_F_EX2	O	L	L	L	Speaker Relay control
	SPRL_F_EX1	O	L	L	L	Speaker Relay control
	SPRL_F	O	L	L	L	Speaker Relay control
	FANCONTON_1	O	L	L	L	FAN control
	FANCONTON_2	O	L	L	L	FAN control
	FANCONT L ON 1	O	L	L	L	FAN control
	FANCONT L ON 2	O	L	L	L	FAN control
A/V:U3004	SPRL_H	O	L	L	L	Speaker Relay control
	SPRL_H EX1	O	L	L	L	Speaker Relay control
	NC	O	L	L	L	NC
	NC	O	L	L	L	NC

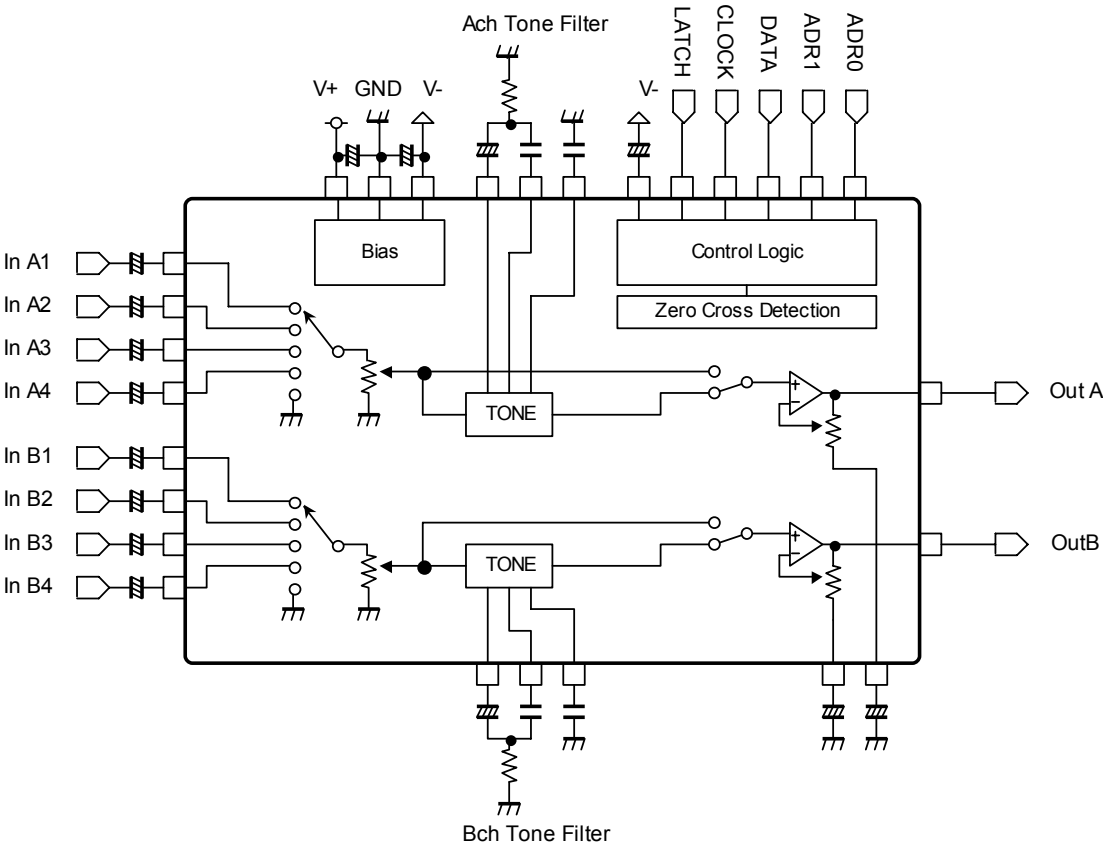
R2A15220FP (A.AUDIO/VIDEO : U3201, U3202)



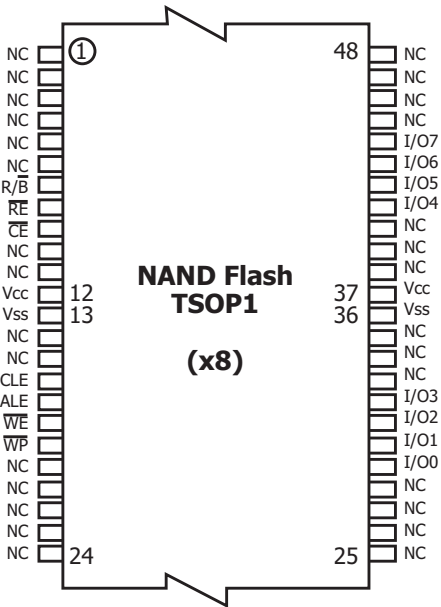
R2A15220FP Pin Function

PIN No.	Name	Function
22,20, 16,14, 10, 8, 2, 100	FROUT,FLOUT, COUT,SWOUT, SROUT, SLOUT, SBROUT,SBLOUT	Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel
23,19, 11, 7, 3, 99	FR Pre-out,FL Pre-out, SR Pre-out, SL Pre-out, SBR Pre-out,SBL Pre-out	Pre-output pin of FL/FR/SL/SR/SBL/SBR channel
24,18, 17,13, 12, 6, 4, 98	FRC,FLC, CC,SWC, SRC,SLC, SBRC,SBLC	Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume
1,5,9,15, 21,55,98	AGND	Analog ground of internal circuit
27,30	TREL, TRER	Frequency characteristic setting pin of L/R channel tone control (Treble)
25,26, 28,29	BASSL1,BASSL2 BASSR1,BASSR2	Frequency characteristic setting pin of L/R channel tone control (Bass)
31	AVCC	Positive power supply to internal circuit
43,42, 41,40, 39,38, 37,36	FRIN2, FLIN2, SRN2,SLIN2, SWIN2,CIN2, SBRIN2,SBLIN2	Multi Input pin of L/R/C/SW/SL/SR/SBL/SBR channel (Multi IN 1/2)
90,91, 92,93, 94,95, 96,97	FLIN1, FRIN1, CIN1,SWIN1, SLIN1,SRIN1, SBLIN1,SBRIN1	
48	DGND	Digital ground of internal circuit
49	DATA	Input pin of control data
50	CLOCK	Input pin of control clock
52	AVEE	Negative power supply to internal circuit
57,59,61,63, 65,67,69,71, 75,83,85,87	INL1,INL2, INL3,INL4, INL5,INL6,INL7,INL8, INL9,INL12,INL13,INL14	Input pin of L/R channel (Input Selector)
56,58,60,62, 64,66,68,70, 74,82,84,86	INR1,INR2, INR3,INR4, INR5,INR6,INR7,INR8, INR9,INR12,INR13,INR14	
51	MUTE	Outside Mute Control PIN
44,45 34,35	SBRCIN,SBLCIN SRCIN,SLCIN	3 rd Multi Input pin for SBL/SBR/SL/SR channel Volume that is able to swap SBR/SBL with SR/SL
46,47 33,32	SUBL1,SUBR1 SUBL2,SUBR2	Output pin for L/R channel SUB1/SUB2 Output
53,54	ADCL, ADCR	Output pin for L/R channel ADC
88,89	RECR3,RECL3	Output pin for L/R channel REC Output
72,73, 76,77, 78,79 80,81	INRA/RECR1,INLA/RECL1, INRB/RECR2,INLB/RECL2, INR10/RECR4,INL10/RECL4, INR11/RECR5,INL11/RECL5	Input pin of L/R channel (Input Selector)/ Output pin for L/R channel REC Output

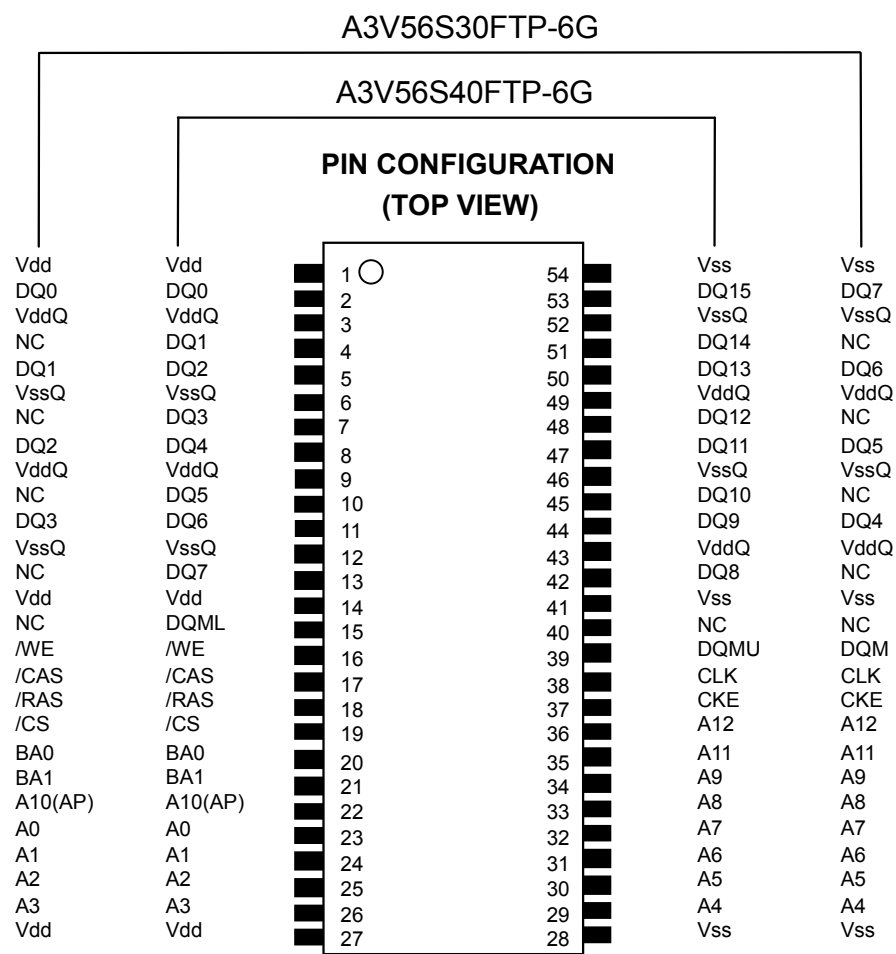
NJW1194A (A.AUDIO/VIDEO : U3203, U3204)



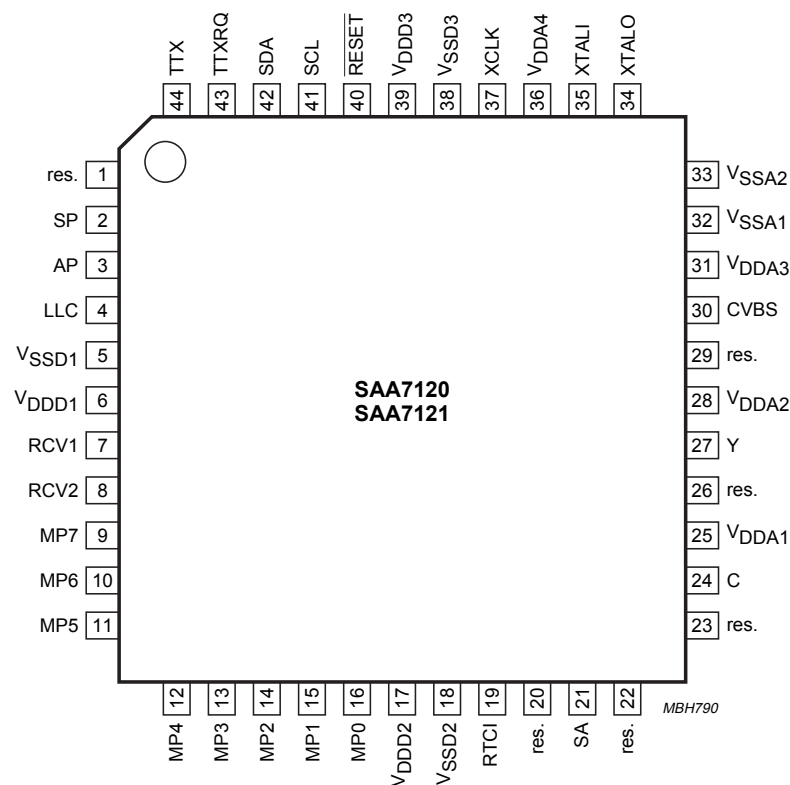
H27U1G8F2BTR-BC (NETWORK/DSP : U0504)



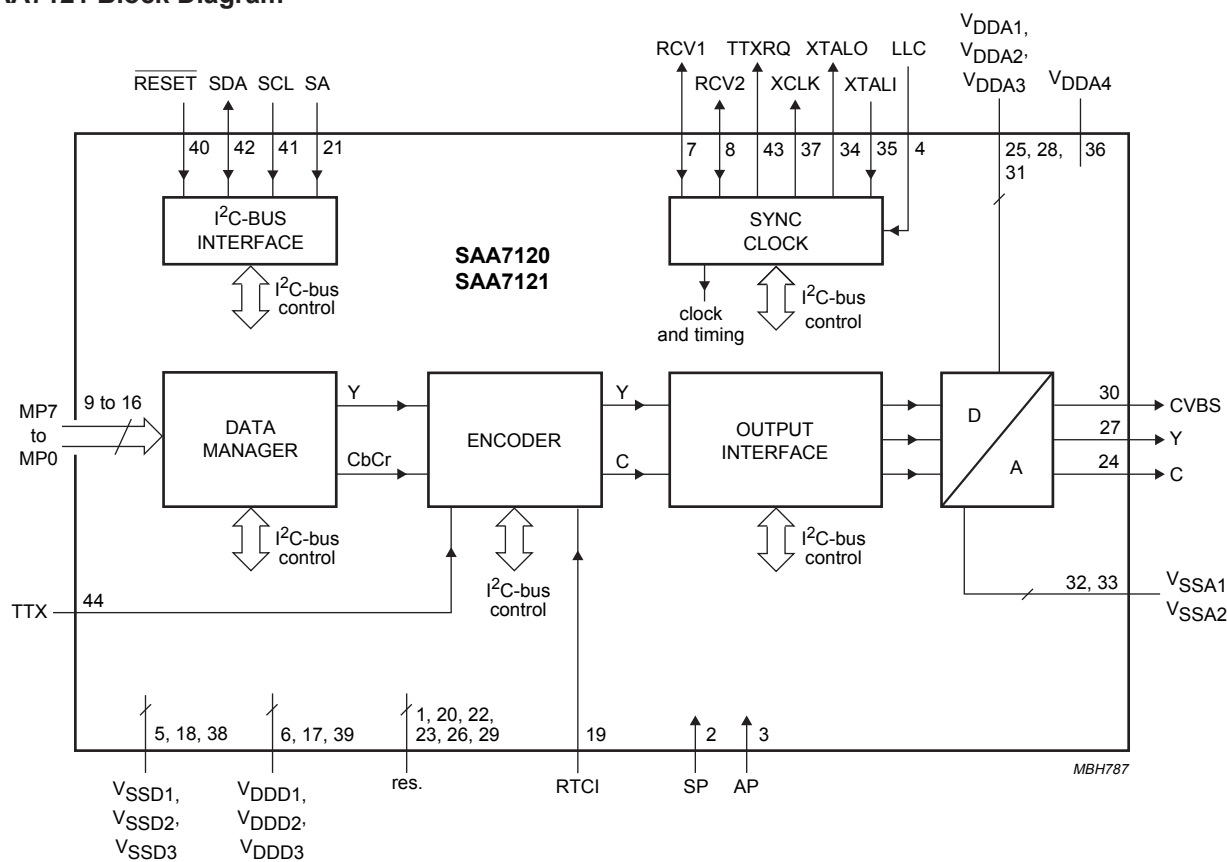
A3V56S30FTP-6G (NETWORK/DSP : U0505, U0506)
A3V56S40FTP-6G (NETWORK/DSP : U0102, U0202, U0302)



SAA7121 (NETWORK/DSP : U0607)



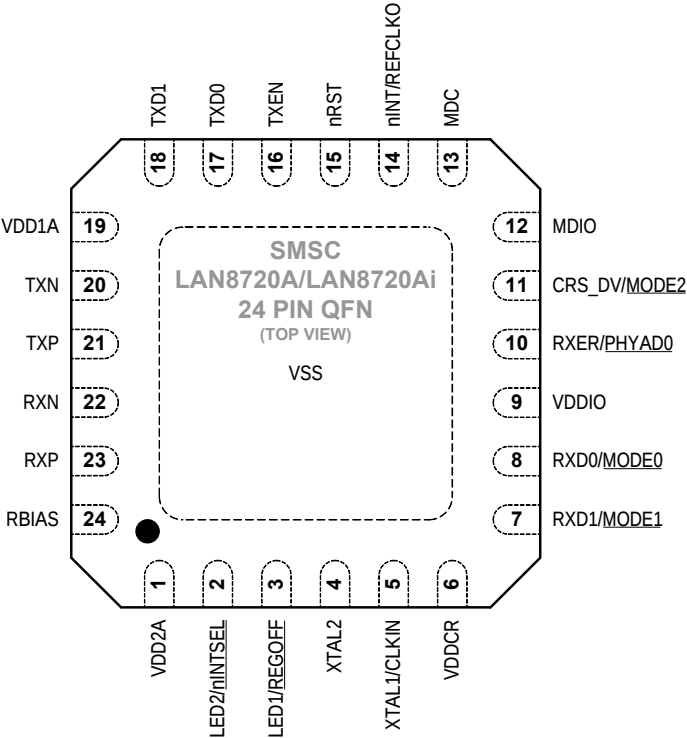
SAA7121 Block Diagram



SAA7121 Pin Description

SYMBOL	PIN	I/O	DESCRIPTION
res.	1	–	reserved
SP	2	I	test pin; connected to digital ground for normal operation
AP	3	I	test pin; connected to digital ground for normal operation
LLC	4	I	line-locked clock; this is the 27 MHz master clock for the encoder
V _{SSD1}	5	I	digital ground 1
V _{DDD1}	6	I	digital supply voltage 1
RCV1	7	I/O	raster control 1 for video port; this pin receives/provides a VS/FS/FSEQ signal
RCV2	8	I/O	raster control 2 for video port; this pin provides an HS pulse of programmable length or receives an HS pulse
MP7	9	I	MPEG port; it is an input for “CCIR 656” style multiplexed Cb Y, Cr data
MP6	10	I	
MP5	11	I	
MP4	12	I	
MP3	13	I	
MP2	14	I	
MP1	15	I	
MP0	16	I	
V _{DDD2}	17	I	digital supply voltage 2
V _{SSD2}	18	I	digital ground 2
RTCI	19	I	Real Time Control input; if the LLC clock is provided by an SAA7111 or SAA7151B, RTCI should be connected to pin RTCO of the decoder to improve the signal quality
res.	20	–	reserved
SA	21	I	the I ² C-bus slave address select input pin; LOW: slave address = 88H, HIGH = 8CH
res.	22	–	reserved
res.	23	–	reserved
C	24	O	analog output of the chrominance signal
V _{DDA1}	25	I	analog supply voltage 1 for the C DAC
res.	26	–	reserved
Y	27	O	analog output of VBS signal
V _{DDA2}	28	I	analog supply voltage 2 for the Y DAC
res.	29	–	reserved
CVBS	30	O	analog output of the CVBS signal
V _{DDA3}	31	I	analog supply voltage 3 for the CVBS DAC
V _{SSA1}	32	I	analog ground 1 for the DACs
V _{SSA2}	33	I	analog ground 2 for the oscillator and reference voltage
XTALO	34	O	crystal oscillator output (to crystal)
XTALI	35	I	crystal oscillator input (from crystal); if the oscillator is not used, this pin should be connected to ground
V _{DDA4}	36	I	analog supply voltage 4 for the oscillator and reference voltage
XCLK	37	O	clock output of the crystal oscillator

LAN8720A (NETWORK/DSP : U0706)



LAN8720A Pin Function

Table 2.8 24-QFN Package Pin Assignments

PIN NUM	PIN NAME	PIN NUM	PIN NAME
1	VDD2A	13	MDC
2	LED2/ <u>nINTSEL</u>	14	nINT/REFCLKO
3	LED1/ <u>REGOFF</u>	15	nRST
4	XTAL2	16	TXEN
5	XTAL1/CLKIN	17	TXD0
6	VDDCR	18	TXD1
7	RXD1/ <u>MODE1</u>	19	VDD1A
8	RXD0/ <u>MODE0</u>	20	TXN
9	VDDIO	21	TXP
10	RXER/ <u>PHYAD0</u>	22	RXN
11	CRS_DV/ <u>MODE2</u>	23	RXP
12	MDIO	24	RBIAS

LAN8720A Block Diagram

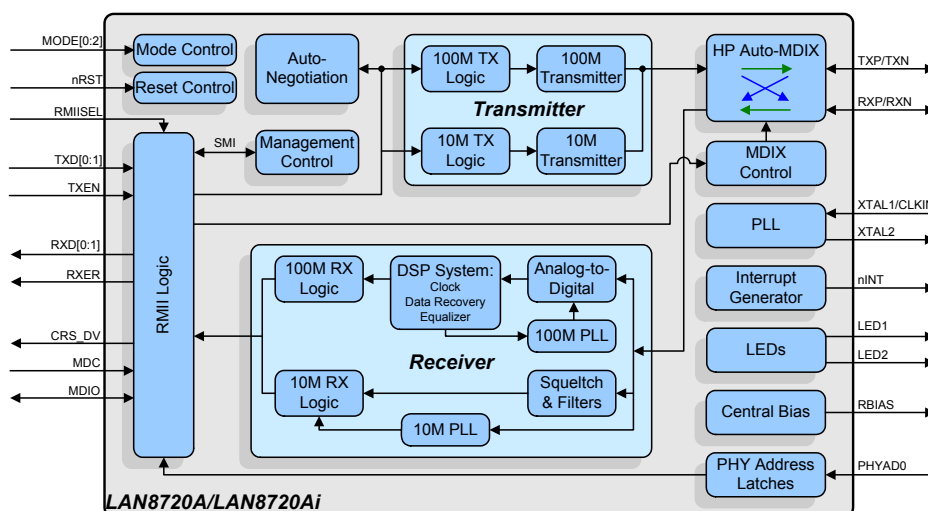
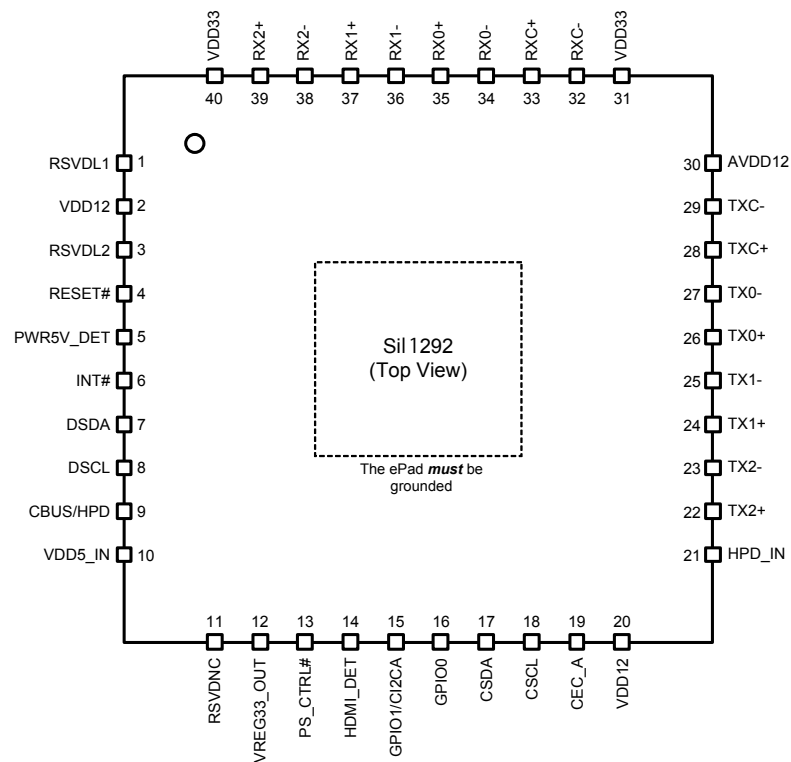
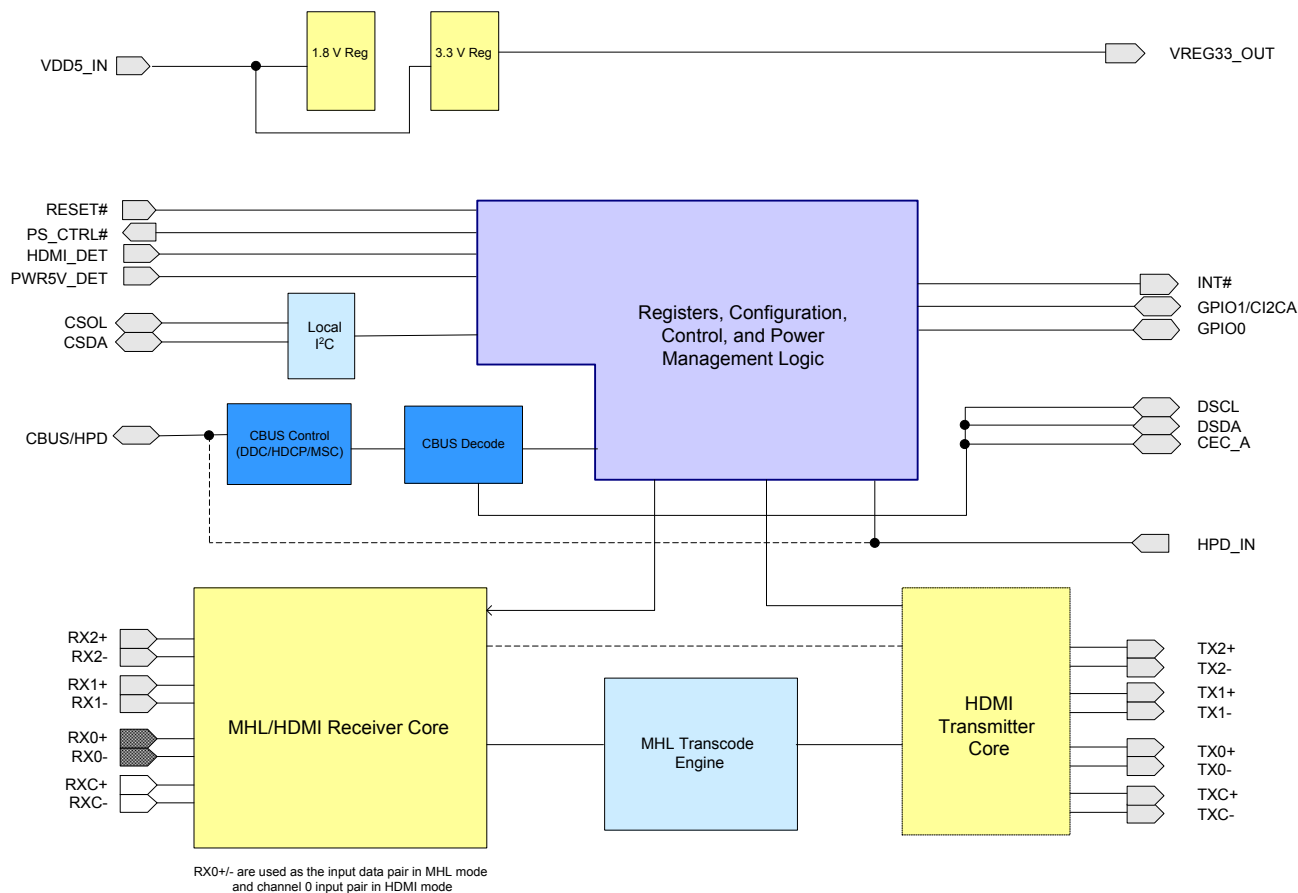


Figure 1.2 Architectural Overview

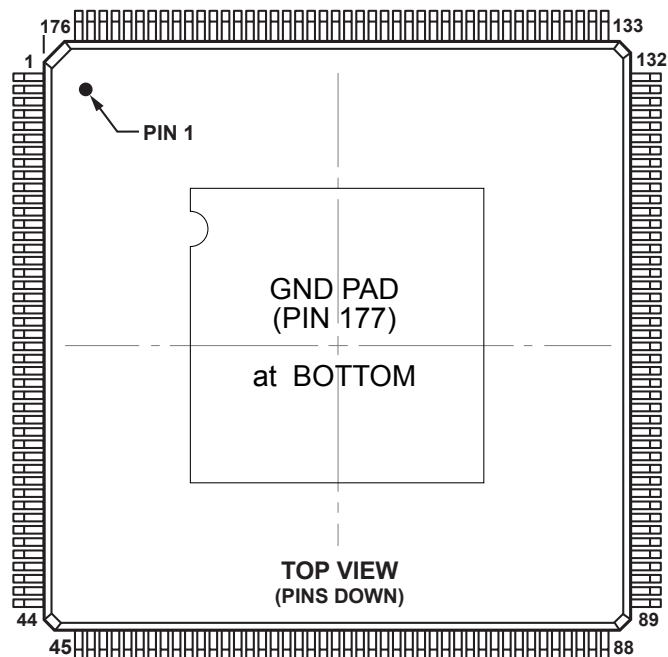
Sil1292CNUC (NETWORK/DSP : U0802)



Sil1292CNUC Block diagram



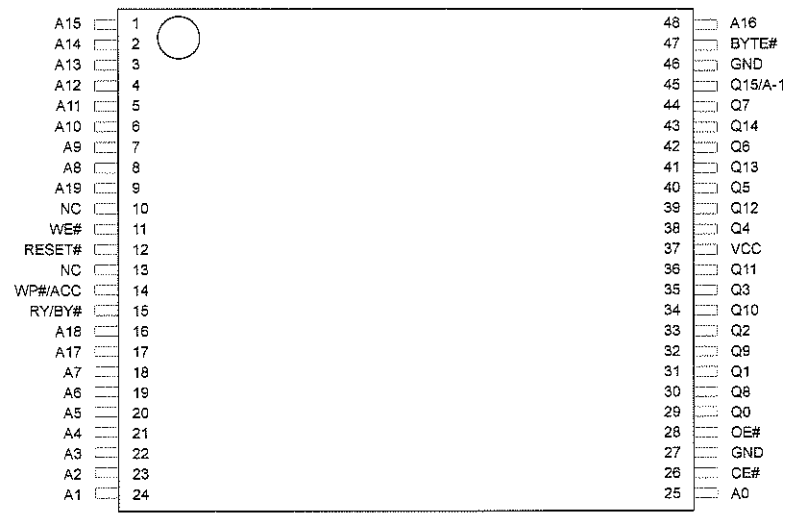
ADSP21487KSWZ4B (NETWORK/DSP : U0101, U0201, U0301)



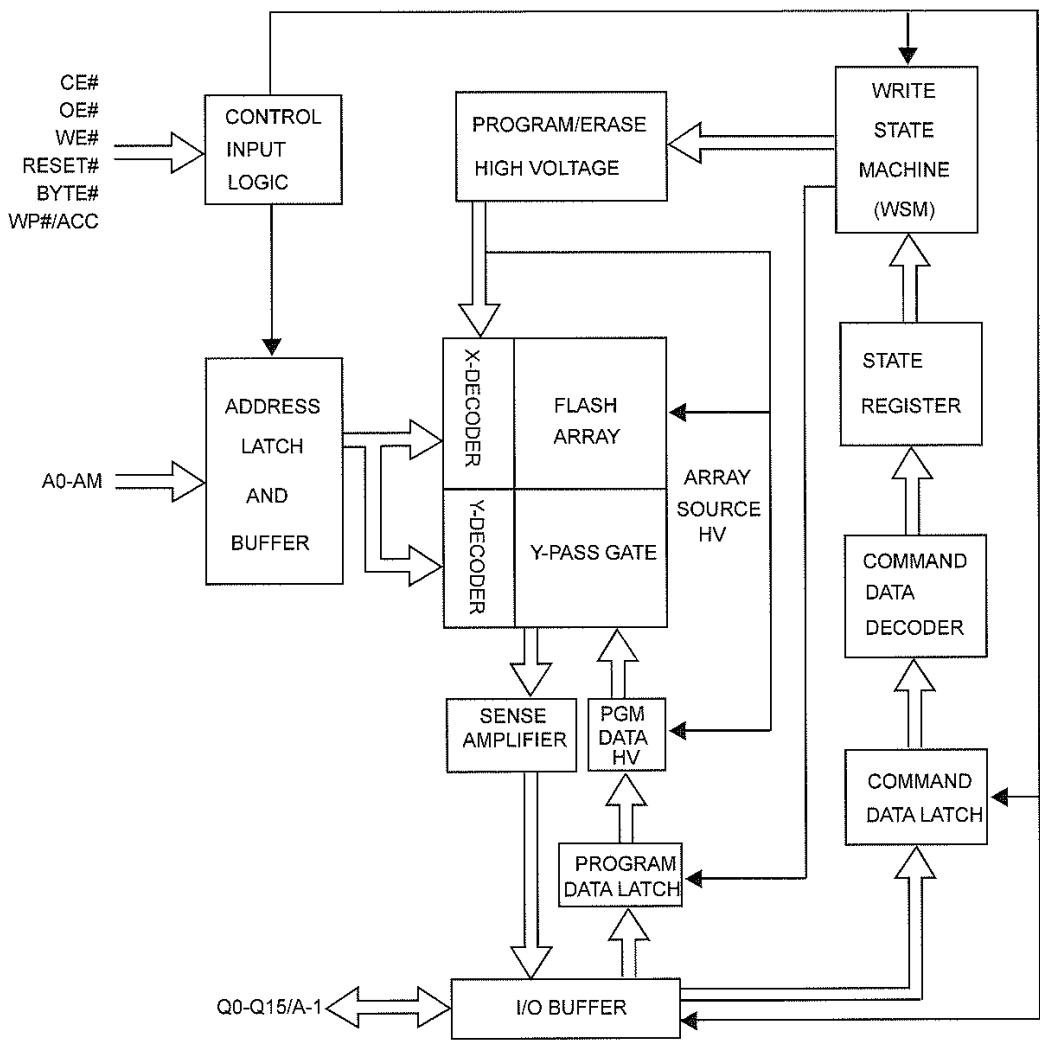
ADSP21487KSWZ4B Terminal Function

Pin Name	Pin No.	Pin Name	Pin No.	Pin Name	Pin No.	Pin Name	Pin No.
SDDQM	1	V _{DD_EXT}	45	DAI_P10	89	V _{DD_INT}	133
MS0	2	DPI_P08	46	V _{DD_INT}	90	FLAG0	134
SDCKE	3	DPI_P07	47	V _{DD_EXT}	91	FLAG1	135
V _{DD_INT}	4	V _{DD_INT}	48	DAI_P20	92	FLAG2	136
CLK_CFG1	5	DPI_P09	49	V _{DD_INT}	93	NC	137
ADDR0	6	DPI_P10	50	DAI_P08	94	FLAG3	138
BOOT_CFG0	7	DPI_P11	51	DAI_P14	95	NC	139
V _{DD_EXT}	8	DPI_P12	52	DAI_P04	96	NC	140
ADDR1	9	DPI_P13	53	DAI_P18	97	V _{DD_EXT}	141
ADDR2	10	DPI_P14	54	DAI_P17	98	NC	142
ADDR3	11	DAI_P03	55	DAI_P16	99	V _{DD_INT}	143
ADDR4	12	NC	56	DAI_P12	100	TRST	144
ADDR5	13	V _{DD_EXT}	57	DAI_P15	101	NC	145
BOOT_CFG1	14	NC	58	V _{DD_INT}	102	EMU	146
GND	15	NC	59	DAI_P11	103	DATA0	147
ADDR6	16	NC	60	V _{DD_EXT}	104	DATA1	148
ADDR7	17	NC	61	V _{DD_INT}	105	DATA2	149
NC	18	V _{DD_INT}	62	BOOT_CFG2	106	DATA3	150
NC	19	NC	63	V _{DD_INT}	107	TDO	151
ADDR8	20	NC	64	AMI_ACK	108	DATA4	152
ADDR9	21	V _{DD_INT}	65	GND	109	V _{DD_EXT}	153
CLK_CFG0	22	NC	66	THD_M	110	DATA5	154
V _{DD_INT}	23	NC	67	THD_P	111	DATA6	155
CLKIN	24	V _{DD_INT}	68	V _{DD_THD}	112	V _{DD_INT}	156
XTAL	25	NC	69	V _{DD_INT}	113	DATA7	157
ADDR10	26	WDTRSTO	70	V _{DD_INT}	114	TDI	158
SDA10	27	NC	71	MS1	115	SDCLK	159
V _{DD_EXT}	28	V _{DD_EXT}	72	V _{DD_INT}	116	V _{DD_EXT}	160
V _{DD_INT}	29	DAI_P07	73	WDT_CLKO	117	DATA8	161
ADDR11	30	DAI_P13	74	WDT_CLKIN	118	DATA9	162
ADDR12	31	DAI_P19	75	V _{DD_EXT}	119	DATA10	163
ADDR17	32	DAI_P01	76	ADDR23	120	TCK	164
ADDR13	33	DAI_P02	77	ADDR22	121	DATA11	165
V _{DD_INT}	34	V _{DD_INT}	78	ADDR21	122	DATA12	166
ADDR18	35	NC	79	V _{DD_INT}	123	DATA14	167
RESETOUT/RUNRSTIN	36	NC	80	ADDR20	124	DATA13	168
V _{DD_INT}	37	NC	81	ADDR19	125	V _{DD_INT}	169
DPI_P01	38	NC	82	V _{DD_EXT}	126	DATA15	170
DPI_P02	39	NC	83	ADDR16	127	SDWE	171
DPI_P03	40	V _{DD_EXT}	84	ADDR15	128	SDRAS	172
V _{DD_INT}	41	V _{DD_INT}	85	V _{DD_INT}	129	RESET	173
DPI_P05	42	DAI_P06	86	ADDR14	130	TMS	174
DPI_P04	43	DAI_P05	87	AMI_WR	131	SDCAS	175
DPI_P06	44	DAI_P09	88	AMI_RD	132	V _{DD_INT}	176
						GND	177*

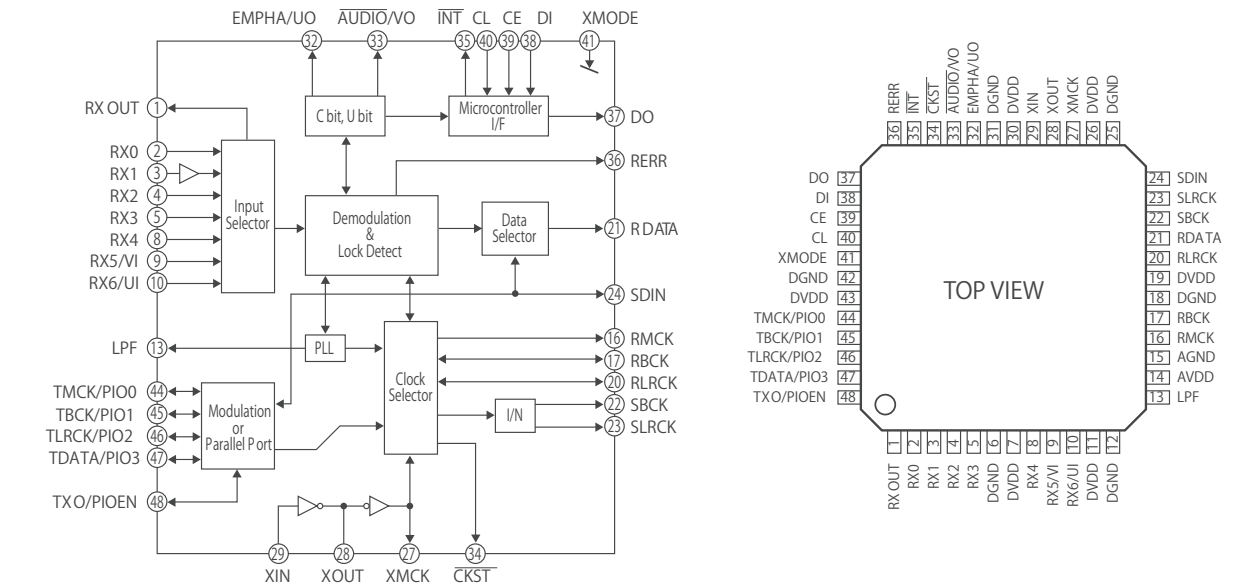
MX29LV160DBTI-70G (NETWORK/DSP : U0103, U0203, U0303)



MX29LV160DBTI-70G Block Diagram



LC89057W-VF4A (DIGITAL : U0103, U0104)



LC89057W-VF4A Termini Function

Pin No.	Pin Name	I/O	Function
1	RXOUT	O	Input bi-phase select data output terminal
2	RX0	I	TTL compatible digital data input terminal
3	RX1	I	Coaxial compatible amp built-in digital data input terminal
4	RX2	I	TTL compatible digital data input terminal
5	RX3	I	TTL compatible digital data input terminal
6	DGND	-	Digital GND
7	DVDD	-	Digital power
8	RX4	I	TTL compatible digital data input terminal
9	RX5/VI	I	TTL compatible digital data/Validity flag input terminal for modulation
10	RX6/UI	I	TTL compatible digital data/User data input terminal for modulation
11	DVDD	-	Digital power for PLL
12	DGND	-	Digital GND for PLL
13	LPF	O	PLL loop filter connecting terminal
14	AVDD	-	Analog power for PLL
15	AGND	-	Analog GND for PLL
16	RMCK	O	RMCK clock output terminal (256fs, 512fs, XIN, VCO)
17	RBCK	O/I	RBCK clock in/output terminal (64fs)
18	DGND	-	Digital GND
19	DVDD	-	Digital power
20	RLRCK	O/I	RLRCK clock in/output terminal (fs)
21	RDATA	O	Serial audio data output terminal
22	SBCK	O	SBCK clock output terminal (32fs, 64fs, 128fs)
23	SLRCK	O	SLRCK clock output terminal (fs/2, fs, 2fs)
24	SDIN	I	Serial audio data input terminal
25	DGND	-	Digital GND
26	DVDD	-	Digital power
27	XMCK	O	Osc. amp output terminal

Pin No.	Pin Name	I/O	Function
28	XOUT	O	X tal osc. connecting output terminal
29	XIN	I	X tal osc. connection, external clock input terminal (24.576MHz or 12.288MHz)
30	DVDD	-	Digital power
31	DGND	-	Digital GND
32	EMPHA/UO	I/O	Emphasis information/U-data output/Chip address setting terminal
33	AUDIO/VO	I/O	Non-PCM detect/V-flag output/Chip address setting terminal
34	CKST	I/O	Clocwitch transition period output/Demodulation master or slave function switching terminal
35	INT	I/O	Interrupt output for μ com (Interrupt factor selectable)/Modulation or general I/O switching terminal
36	RERR	O	PLL lock error, data error flag output
37	DO	O	μ com I/F, read out data output terminal (3-state)
38	DI	I	μ com I/F, write data input terminal
39	CE	I	μ com I/F, chip enable input terminal
40	CL	I	μ com I/F, clock input terminal
41	XMODE	I	System reset input terminal
42	DGND	-	Digital GND
43	DVDD	-	Digital power
44	TMCK/PIO0	I/O	256fs system clock input for modulation/General I/O in/output terminal
45	TBCK/PIO1	I/O	64fs bit clock input for modulation/General I/O in/output terminal
46	TLRCK/PIO2	I/O	fs clock input for modulation/General I/O in/output terminal
47	TDATA/PIO3	I/O	Serial audio data input for modulation/General I/O in/output terminal
48	TXO/PIOEN	O/I	Modulation data output/ General I/O enable input terminal

* For latch-up countermeasure, perform each power supply ON/OFF in the same timing.

PCM5100PWR (DIGITAL : U0106)

PCM510X (top view)

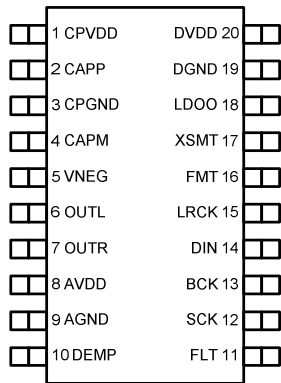


Table 2. TERMINAL FUNCTIONS, PCM510x

TERMINAL		I/O	DESCRIPTION
NAME	NO.		
CPVDD	1	-	Charge pump power supply, 3.3V
CAPP	2	O	Charge pump flying capacitor terminal for positive rail
CPGND	3	-	Charge pump ground
CAPM	4	O	Charge pump flying capacitor terminal for negative rail
VNEG	5	O	Negative charge pump rail terminal for decoupling, -3.3V
OUTL	6	O	Analog output from DAC left channel
OUTR	7	O	Analog output from DAC right channel
AVDD	8	-	Analog power supply, 3.3V
AGND	9	-	Analog ground
DEMP	10	I	De-emphasis control for 44.1kHz sampling rate ⁽¹⁾ : Off (Low) / On (High)
FLT	11	I	Filter select : Normal latency (Low) / Low latency (High)
SCK	12	I	System clock input
BCK	13	I	Audio data bit clock input
DIN	14	I	Audio data input
LRCK	15	I	Audio data word clock input
FMT	16	I	Audio format selection : I ² S (Low) / Left justified (High)
XSMT	17	I	Soft mute control : Soft mute (Low) / soft un-mute (High)
LDOO	18	-	Internal logic supply rail terminal for decoupling
DGND	19	-	Digital ground
DVDD	20	-	Digital power supply, 3.3V

(1) Failsafe LVCMOS Schmitt trigger input

PCM5100PWR Block Diagram

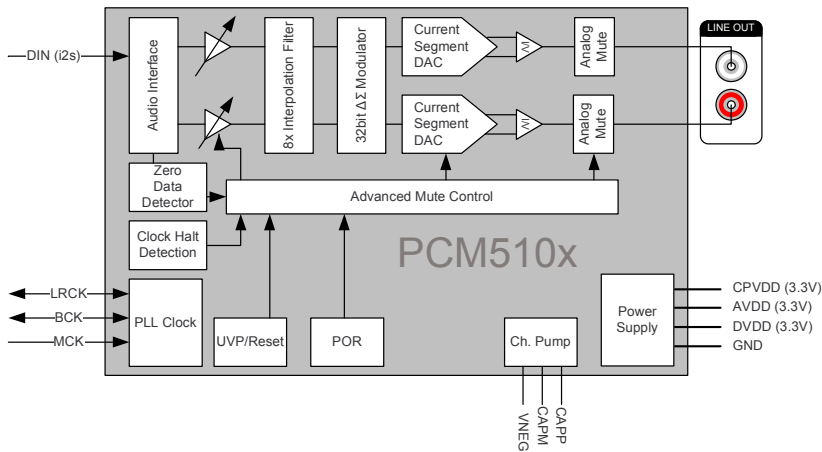
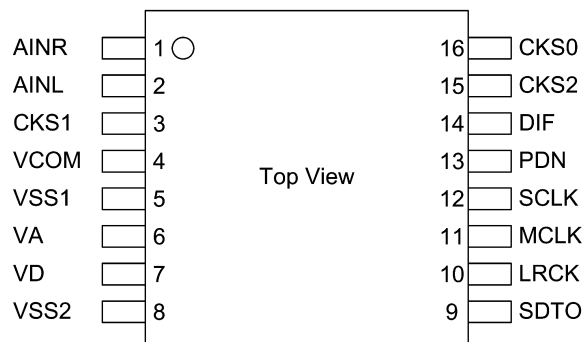


Figure 1. PCM510x Functional Block Diagram

AK5358BET (DIGITAL : U0141)



AK5358BET Pin Function

No.	Pin Name	I/O	Function
1	AINR	I	Rch Analog Input Pin
2	AINL	I	Lch Analog Input Pin
3	CKS1	I	Mode Select 1 Pin
4	VCOM	O	Common Voltage Output Pin, $V_A/2$ Bias voltage of ADC input.
5	VSS1	-	Ground Pin
6	VA	-	Analog Power Supply Pin, 4.5 ~ 5.5V
7	VD	-	Digital Power Supply Pin, 2.7 ~ 5.5V
8	VSS2	-	Ground Pin
9	SDTO	O	Audio Serial Data Output Pin “L” Output at Power-down mode.
10	LRCK	I/O	Output Channel Clock Pin “L” Output in Master Mode at Power-down mode.
11	MCLK	I	Master Clock Input Pin
12	SCLK	I/O	Audio Serial Data Clock Pin “L” Output in Master Mode at Power-down mode.
13	PDN	I	Power Down Mode & Reset Pin “H”: Power up, “L”: Power down & Reset
14	DIF	I	Audio Interface Format Pin “H”: 24bit I ² S Compatible, “L”: 24bit MSB justified
15	CKS2	I	Mode Select 2 Pin
16	CKS0	I	Mode Select 0 Pin

PCM1795 (DIGITAL : U0403, U0404, U0405, U0406, U0407, U0408, U0409)

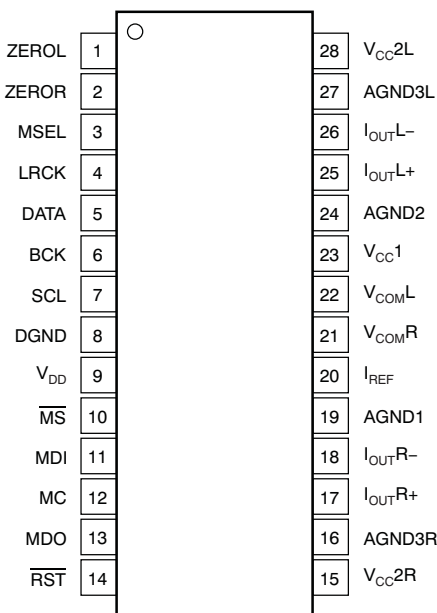


Table 1. TERMINAL FUNCTIONS

TERMINAL		I/O	DESCRIPTION
NAME	NO.		
AGND1	19	—	Analog ground (internal bias)
AGND2	24	—	Analog ground (internal bias)
AGND3L	27	—	Analog ground (left channel DACFF)
AGND3R	16	—	Analog ground (right channel DACFF)
BCK	6	I	Bit clock input ⁽¹⁾
DATA	5	I	Serial audio data input ⁽²⁾
DGND	8	—	Digital ground
I _{OUT} L+	25	O	Left channel analog current output+
I _{OUT} L-	26	O	Left channel analog current output-
I _{OUT} R+	17	O	Right channel analog current output+
I _{OUT} R-	18	O	Right channel analog current output-
I _{REF}	20	—	Output current reference bias pin
LRCK	4	I	Left and right clock (f _S) input ⁽²⁾
MC	12	I	Mode control clock input ⁽²⁾
MDI	11	I	Mode control data input ⁽²⁾
MDO	13	I/O	Mode control readback data output ⁽³⁾
$\overline{\text{MS}}$	10	I/OI	Mode control chip-select input ⁽⁴⁾ ; active low
MSEL	3	I	I ² C/ $\overline{\text{SPI}}$ select ⁽²⁾ ; active low SPI select
$\overline{\text{RST}}$	14	I	Reset ⁽²⁾ ; active low

(1) Schmitt-trigger input, 5-V tolerant.

(2) Schmitt-trigger input, 5-V tolerant.

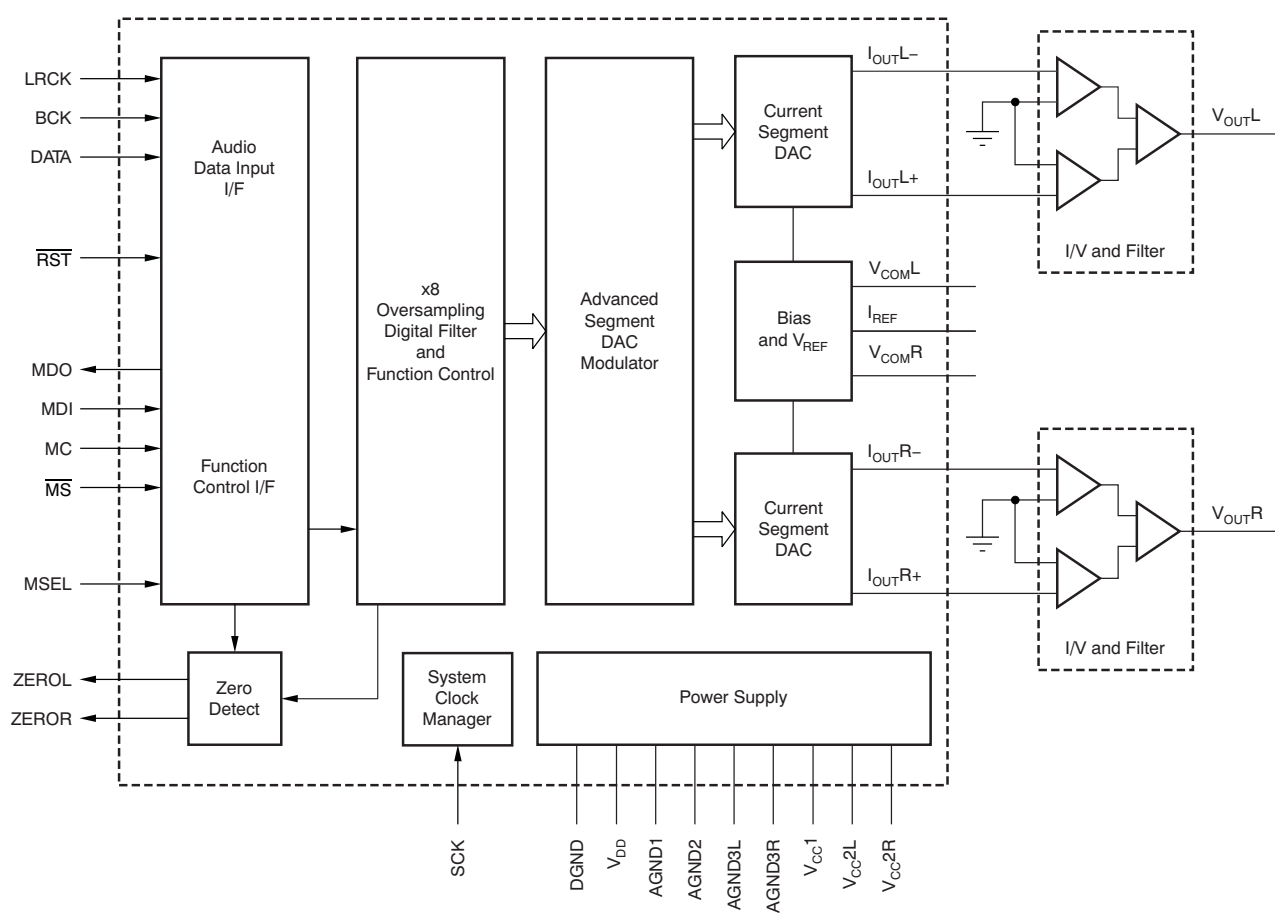
(3) Schmitt-trigger input and output. 5-V tolerant input. In I²C mode, this pin becomes an open-drain 3-state output; otherwise, this pin is a CMOS output.

(4) Schmitt-trigger input and output. 5-V tolerant input and CMOS output.

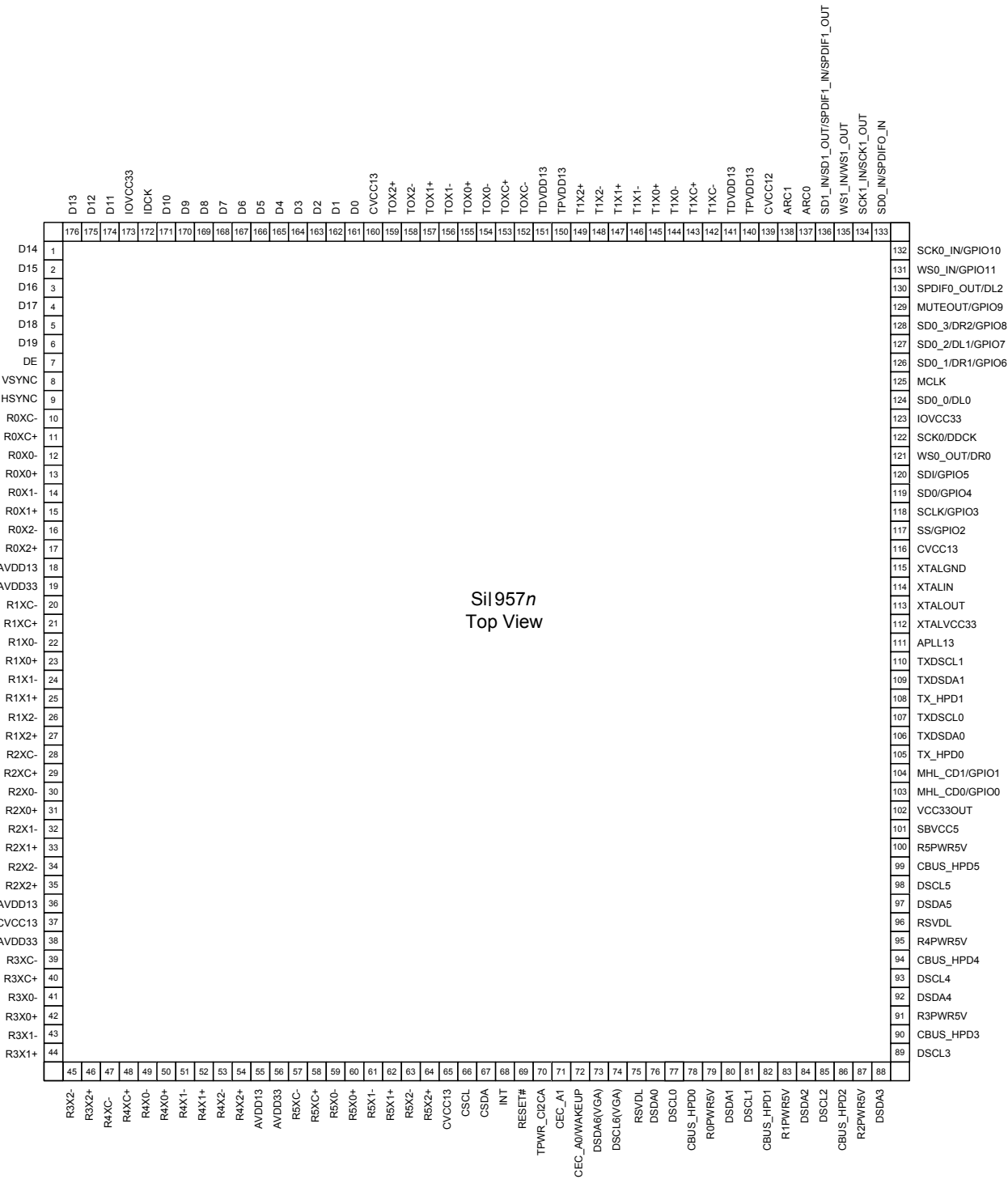
Table 1. TERMINAL FUNCTIONS (continued)

TERMINAL		I/O	DESCRIPTION
NAME	NO.		
SCK	7	I	System clock input ⁽²⁾
V _{CC1}	23	—	Analog power supply, 5 V
V _{CC2L}	28	—	Analog power supply (left channel DACFF), 5 V
V _{CC2R}	15	—	Analog power supply (right channel DACFF), 5 V
V _{COML}	22	—	Left channel internal bias decoupling pin
V _{COMR}	21	—	Right channel internal bias decoupling pin
V _{DD}	9	—	Digital power supply, 3.3 V
ZEROL	1	I/O	Zero flag for left channel ⁽⁴⁾
ZEROR	2	I/O	Zero flag for right channel ⁽⁴⁾

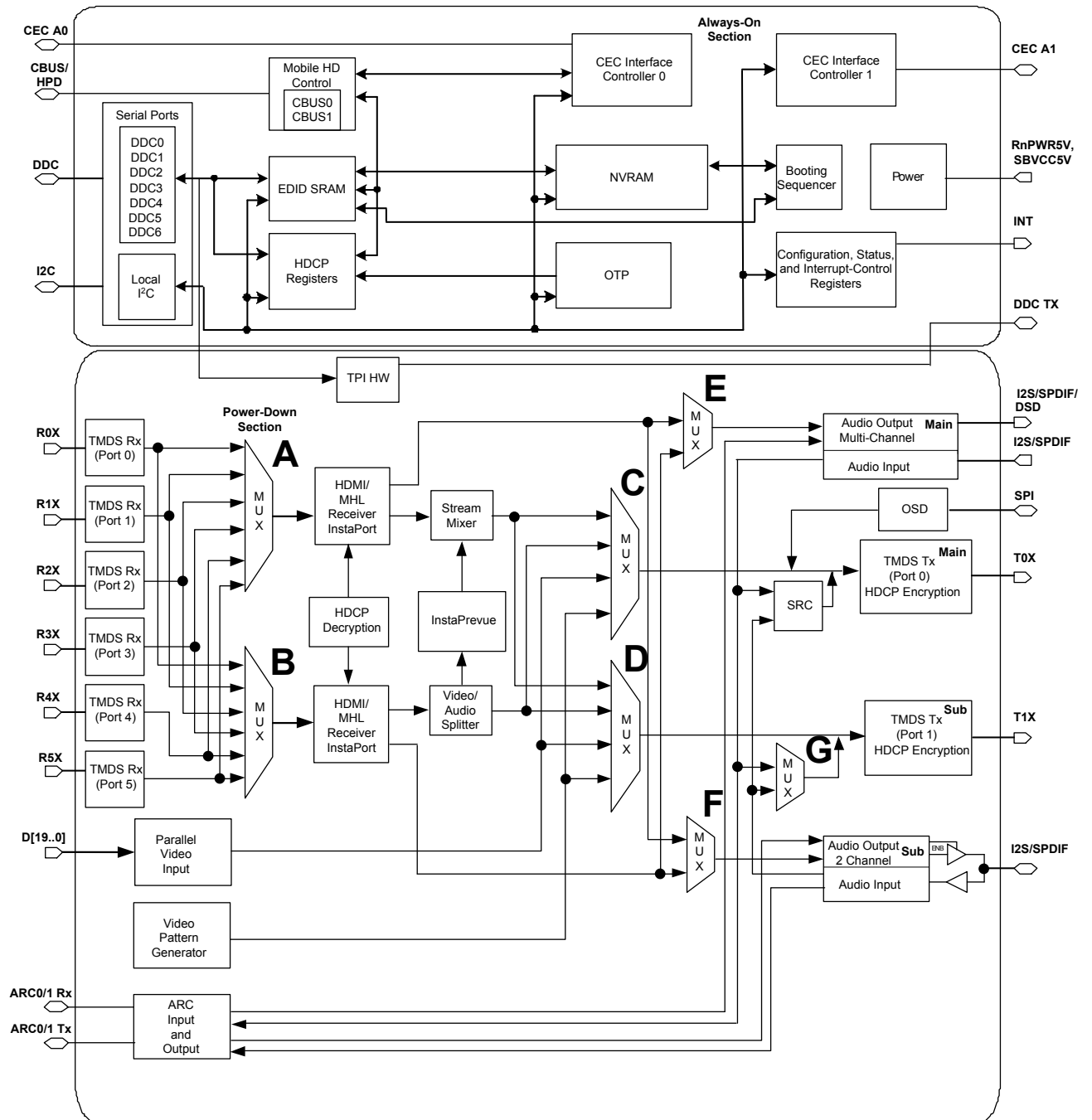
PCM1795 Block Diagram



Sil9575CTUC (DIGITAL : U1001)



SiI9575CTUC Block diagram



ADV7850KBCZ-5 (DIGITAL : U1102)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
A	GND	GND	GND	RXB_2+	RXB_1+	RXB_0+	RXB_C+	ARC_B	TVDD	RXC_2+	RXC_1+	RXC_0+	RXC_C+	ARC_C	GND	RXD_2+	RXD_1+	RXD_0+	RXD_C+	ARC_D	GND	GND	GND	A
B	ARC_A	HPA_A	GND	RXB_2-	RXB_1-	RXB_0-	RXB_C-	HPA_B	TVDD	RXC_2-	RXC_1-	RXC_0-	RXC_C-	HPA_C	GND	RXD_2-	RXD_1-	RXD_0-	RXD_C-	HPA_D	GND	ACMUXO UT_R	ACMUXO UT_L	B
C	RXA_C+	RXA_C-	CVDD	GND	GND	GND	GND	VDD_EE PROM	TVDD	TVDD	TVDD	TVDD	TVDD	TVDD	GND	TVDD	TVDD	TVDD	TVDD	GND	GND	ACMUXIN _1R	ACMUXIN _1L	C
D	RXA_0+	RXA_0-	CVDD	RXD_5V	VGA_5V	DDCA_S CL	DDCA_S DA	DDCB_S CL	DDCB_S DA	DDCC_S CL	DDCC_S DA	DDCD_S CL	DDCD_S DA	VREG	GND	VGA_SC L	VGA_SD A	TVDD	AC_AVD D	AC_AVD D	AC_AVD D	ACMUXIN _2R	ACMUXIN _2L	D
E	RXA_1+	RXA_1-	CVDD	RXC_5V																GND	GND	ACMUXIN _3R	ACMUXIN _3L	E
F	RXA_2+	RXA_2-	CVDD	RXB_5V																PLL_LF	GND	ACMUXIN _4R	ACMUXIN _4L	F
G	TVDD	TVDD	TVDD	TVDD																AC_AVD D	GND	ACMUXIN _5R	ACMUXIN _5L	G
H	EP_M3 O	EP_M03 I	SPDIF JN	RXA_5V																GND	GND	FILTA	VREF_A UDIO	H
J	EP_CSB	EP_SCK	SHARED _EDID	RESET																AC_AVD D	GND	ISET	FILTD	J
K	GND	GND	DVDDIO	DVDDIO																AC_AVD D	AC_AVD D	AC_DAC Out_R	AC_DAC Out_L	K
L	HA_AP5	HA_SCL K	INT1	SDA																AC_AVD D	AC_AVD D	HPOUT_ R	HPOUT_ L	L
M	HA_AP4	HA_AP3/ INT3	INT2	SCL																AC_AVD D	GND	GND	GND	M
N	HA_AP2	HA_AP1	AC_MCL K	AC_LRC LK																PVDD	PVDD	XTALN	XTALP	N
P	HA_AP0	HA_MCL KOUT	AC_SDI	AC_SCL K																GND	GND	GND	GND	P
R	TTX_SC LK	TTX_MO SI	TTX_MIS O	TTX_CSB																GND	GND	REFN	REFP	R
T	DVDDIO	DVDDIO	GND	GND																AVDD	AVDD	AVDD	AVDD	T
U	TX_AVDD	TX_AVDD	GND	TX_DDC _SCL																AVIN13	AVIN12	AVIN11	AVIN10	U
V	TX_2+	TX_2-	GND	TX_DDC _SDA																AVDD	AVDD	AVDD	AVDD	V
W	TX_1+	TX_1-	GND	TX_HPD																GND	AVOUT2	AVIN9	AVIN8	W
Y	TX_0+	TX_0-	GND	GND	A7	A3	A10	BA0	CKE	GND	DQ8	DQ7	DQ0	DQ8	UDQS	SDVDD	SAVDD	TRI1	TRI2	GND	AVOUT1	SYNC3	AVIN7	Y
AA	TX_C+	TX_C-	TX_AVDD	GND	A9	A5	A1	BA1	WE	GND	DQ4	DQ5	DQ2	DQ11	UDQSN	SDVDD	GND	HS_IN1/T R07	VS_IN1/T R08	GND	TRI3	HS_IN2/T R05	VS_IN2/T R08	AA
AB	TX_PLGN	TX_PVDD	TX_PLVDD	SDVDD	A11	A6	A2	CAS	RAS	VREF	SDVDD	LDQSN	DQ3	DQ10	DQ12	DQ14	GND	SYNC1	AVIN3	GND	SYNC2	AVIN5	TRI4	AB
AC	GND	TX_RTE RM	TX_VDD3	SDVDD	A8	A4	A0	CS	CKN	CK	SDVDD	LDQS	DQ1	DQ9	DQ15	DQ13	GND	AVIN1	AVIN2	GND	AVIN4	AVIN5	GND	AC
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	

Pin No.	Mnemonic	Description
A1	GD	Ground
A2	GND	Ground
A3	GND	Ground
A4	RXB_2+	Digital Input Channel 2 true of Port B in the HDMI interface.
A5	RXB_1+	Digital Input Channel 1 true of Port B in the HDMI interface.
A6	RXB_0+	Digital Input Channel 0 true of Port B in the HDMI interface.
A7	RXB_C+	Digital input clock true of Port B in the HDMI interface.
A8	ARC_B	Single ended Audio Return Channel of Port B in the HDMI interface.
A9	TVDD	HDMI termination supply (3.3V)
A10	RXC_2+	Digital Input Channel 2 true of Port C in the HDMI interface.
A11	RXC_1+	Digital Input Channel 1 true of Port C in the HDMI interface.
A12	RXC_0+	Digital Input Channel 0 true of Port C in the HDMI interface.
A13	RXC_C+	Digital input clock true of Port C in the HDMI interface.
A14	ARC_C	Single ended Audio Return Channel of Port C in the HDMI interface.
A15	GND	Ground
A16	RXD_2+	Digital Input Channel 2 true of Port D in the HDMI interface.
A17	RXD_1+	Digital Input Channel 1 true of Port D in the HDMI interface.
A18	RXD_0+	Digital Input Channel 0 true of Port D in the HDMI interface.
A19	RXD_C+	Digital input clock true of Port D in the HDMI interface.
A20	ARC_D	Single ended Audio Return Channel of Port D in the HDMI interface.
A21	GND	Ground
A22	GND	Ground
A23	GND	Ground
B1	ARC_A	Single ended Audio Return Channel of Port A in the HDMI interface.
B2	HPA_A	Hot Plug Assert for Port A.
B3	GND	Ground
B4	RXB_2-	Digital Input Channel 2 complement of Port B in the HDMI interface.
B5	RXB_1-	Digital Input Channel 1 complement of Port B in the HDMI interface.
B6	RXB_0-	Digital Input Channel 0 complement of Port B in the HDMI interface.
B7	RXB_C-	Digital input clock complement of Port B in the HDMI interface.
B8	HPA_B	Hot Plug Assert for Port B.
B9	TVDD	HDMI termination supply (3.3V)
B10	RXC_2-	Digital Input Channel 2 complement of Port C in the HDMI interface.
B11	RXC_1-	Digital Input Channel 1 complement of Port C in the HDMI interface.
B12	RXC_0-	Digital Input Channel 0 complement of Port C in the HDMI interface.
B13	RXC_C-	Digital input clock complement of Port C in the HDMI interface.
B14	HPA_C	Hot Plug Assert for Port C.
B15	GND	Ground
B16	RXD_2-	Digital Input Channel 2 complement of Port D in the HDMI interface.
B17	RXD_1-	Digital Input Channel 1 complement of Port D in the HDMI interface.
B18	RXD_0-	Digital Input Channel 0 complement of Port D in the HDMI interface.
B19	RXD_C-	Digital input clock complement of Port D in the HDMI interface.
B20	HPA_D	Hot Plug Assert for Port D.
B21	GND	Ground
B22	ACMUXOUT_R	Audio Codec Mux Output Right Channel
B23	ACMUXOUT_L	Audio Codec Mux Output Left Channel
C1	RXA_C+	Digital input clock true of Port A in the HDMI interface.
C2	RXA_C-	Digital input clock complement of Port A in the HDMI interface.
C3	CVDD	HDMI comparator supply (1.8V)
C4	GND	Ground
C5	GND	Ground
C6	GND	Ground
C7	GND	Ground
C8	VDD_EEPROM	External EDID EEPROM power supply
C9	TVDD	HDMI termination supply (3.3V)
C10	TVDD	HDMI termination supply (3.3V)
C11	TVDD	HDMI termination supply (3.3V)
C12	TVDD	HDMI termination supply (3.3V)
C13	TVDD	HDMI termination supply (3.3V)
C14	TVDD	HDMI termination supply (3.3V)
C15	GND	Ground
C16	TVDD	HDMI termination supply (3.3V)

Pin No.	Mnemonic	Description
C17	TVDD	HDMI termination supply (3.3V)
C18	TVDD	HDMI termination supply (3.3V)
C19	TVDD	HDMI termination supply (3.3V)
C20	GND	Ground
C21	GND	Ground
C22	ACMUXIN_1R	Audio Codec Mux Input 1 Right Channel
C23	ACMUXIN_1L	Audio Codec Mux Input 1 Left Channel
D1	RXA_0+	Digital Input Channel 0 true of Port A in the HDMI interface.
D2	RXA_0-	Digital Input Channel 0 complement of Port A in the HDMI interface.
D3	CVDD	HDMI comparator supply (1.8V)
D4	RXD_5V	5V detect pin for Port D in the HDMI interface.
D5	VGA_5V	5V detect inout for VGA connector
D6	DDCA_SCL	Serial clock for DDC bus of Port A. DDCA_SCL is 5 V tolerant.
D7	DDCA_SDA	Serial data for DDC bus of Port A. DDCA_SDA is 5 V tolerant.
D8	DDCB_SCL	Serial clock port for DDC bus of Port B. DDCB_SCL is 5 V tolerant.
D9	DDCB_SDA	Serial data port for DDC bus of Port B. DDCB_SDA is 5 V tolerant.
D10	DDCC_SCL	Serial clock port for DDC bus of Port C. DDCC_SCL is 5 V tolerant.
D11	DDCC_SDA	Serial data port for DDC bus of Port C. DDCC_SDA is 5 V tolerant.
D12	DDCD_SCL	Serial clock port for DDC bus of Port D. DDCD_SCL is 5 V tolerant.
D13	DDCD_SDA	Serial data port for DDC bus of Port D. DDCD_SDA is 5 V tolerant.
D14	VREG	Voltage regulator output. Must be decoupled to GND via 1uF capacitor.
D15	GND	Ground
D16	VGA_SCL	Serial clock for VGA interface. VGA_SCL is 5V tolerant.
D17	VGA_SDA	Serial data for VGA interface. VGA_SDA is 5V tolerant.
D18	TVDD	HDMI termination supply (3.3V)
D19	AC_AVDD	Audio block supply (3.3V)
D20	AC_AVDD	Audio block supply (3.3V)
D21	AC_AVDD	Audio block supply (3.3V)
D22	ACMUXIN_2R	Audio Codec Mux Input 2 Right Channel
D23	ACMUXIN_2L	Audio Codec Mux Input 2 Left Channel
E1	RXA_1+	Digital Input Channel 1 true of Port A in the HDMI interface.
E2	RXA_1-	Digital Input Channel 1 complement of Port A in the HDMI interface.
E3	CVDD	HDMI comparator supply (1.8V)
E4	RXC_5V	5V detect pin for Port C in the HDMI interface.
E20	GND	Ground
E21	GND	Ground
E22	ACMUXIN_3R	Audio Codec Mux Input 3 Right Channel
E23	ACMUXIN_3L	Audio Codec Mux Input 3 Left Channel
F1	RXA_2+	Digital Input Channel 2 true of Port A in the HDMI interface.
F2	RXA_2-	Digital Input Channel 2 complement of Port A in the HDMI interface.
F3	CVDD	HDMI comparator supply (1.8V)
F4	RXB_5V	5V detect pin for Port B in the HDMI interface.
F20	PLL_LF	Loop Filter ball for Audio Codec PLL
F21	GND	Ground
F22	ACMUXIN_4R	Audio Codec Mux Input 4 Right Channel
F23	ACMUXIN_4L	Audio Codec Mux Input 4 Left Channel
G1	TVDD	HDMI termination supply (3.3V)
G2	TVDD	HDMI termination supply (3.3V)
G3	TVDD	HDMI termination supply (3.3V)
G4	TVDD	HDMI termination supply (3.3V)
G7	GND	Ground
G8	TEST1	Test pin, do not connect
G9	CVDD	HDMI comparator supply (1.8V)
G10	CVDD	HDMI comparator supply (1.8V)
G11	CVDD	HDMI comparator supply (1.8V)
G12	CVDD	HDMI comparator supply (1.8V)
G13	CVDD	HDMI comparator supply (1.8V)
G14	CVDD	HDMI comparator supply (1.8V)
G15	CVDD	HDMI comparator supply (1.8V)
G16	GND	Ground
G17	GND	Ground
G20	AC_AVDD	Audio block supply (3.3V)
G21	GND	Ground
G22	ACMUXIN_5R	Audio Codec Mux Input 5 Right Channel

Pin No.	Mnemonic	Description
G23	ACMUXIN_5L	Audio Codec Mux Input 5 Left Channel
H1	EP_MISO	External EDID EEPROM interface
H2	EP_MOSI	External EDID EEPROM interface
H3	SPDIF_IN	S/PDIF digital audio input for Audio Return Channel (ARC).
H4	RXA_5V	5V detect pin for Port A in the HDMI interface.
H7	GND	Ground
H8	GND	Ground
H9	GND	Ground
H10	GND	Ground
H11	GND	Ground
H12	GND	Ground
H13	GND	Ground
H14	GND	Ground
H15	GND	Ground
H16	GND	Ground
H17	GND	Ground
H20	GND	Ground
H21	GND	Ground
H22	FILTA	Audio Codec ADC filter capacitor
H23	VREF_AUDIO	Audio Codec block reference voltage capacitor
J1	EP_CSB	External EDID EEPROM interface
J2	EP_SCK	External EDID EEPROM interface
J3	SHARED_EDID	EDID selection signal for HDMI Port D
J4	RESET	Chip Reset. Active low. Minimum low time guarantee reset is 5 ms.
J7	GND	Ground
J8	GND	Ground
J9	GND	Ground
J10	GND	Ground
J11	GND	Ground
J12	GND	Ground
J13	GND	Ground
J14	GND	Ground
J15	GND	Ground
J16	GND	Ground
J17	GND	Ground
J20	AC_AVDD	Audio block supply (3.3V)
J21	GND	Ground
J22	ISSET	Audio Codec ADC current settings
J23	FILTD	Audio Codec DAC filter capacitor
K1	GND	Ground
K2	GND	Ground
K3	DVDDIO	I/O supply (3.3V)
K4	DVDDIO	I/O supply (3.3V)
K7	VDD	Video Digital supply (1.8V)
K8	GND	Ground
K9	GND	Ground
K10	GND	Ground
K11	GND	Ground
K12	GND	Ground
K13	GND	Ground
K14	GND	Ground
K15	GND	Ground
K16	GND	Ground
K17	GND	Ground
K20	AC_AVDD	Audio block supply (3.3V)
K21	AC_AVDD	Audio block supply (3.3V)
K22	AC_DACOut_R	Audio Codec DAC output right channel
K23	AC_DACOut_L	Audio Codec DAC output left channel
L1	HA_AP5	HDMI Audio port output
L2	HA_SCLK	HDMI Audio port serial clock output.
L3	INT1	External Interrupt 1.
L4	SDA	I2C port serial data input/output pin.
L7	VDD	Video Digital supply (1.8V)
L8	GND	Ground

Pin No.	Mnemonic	Description
L9	GND	Ground
L10	GND	Ground
L11	GND	Ground
L12	GND	Ground
L13	GND	Ground
L14	GND	Ground
L15	GND	Ground
L16	GND	Ground
L17	GND	Ground
L20	AC_AVDD	Audio block supply (3.3V)
L21	AC_AVDD	Audio block supply (3.3V)
L22	HPOUT_R	Headphone output right channel
L23	HPOUT_L	Headphone output left channel
M1	HA_AP4	HDMI Audio port output
M2	HA_AP3/INT3	HDMI Audio port output or External Interrupt pin 3. This pin can be configured as a TTL output interrupt pin for the VDP SPI interface.
M3	INT2	External Interrupt 2.
M4	SCL	I2C port serial clock input.
M7	VDD	Video Digital supply (1.8V)
M8	GND	Ground
M9	GND	Ground
M10	GND	Ground
M11	GND	Ground
M12	GND	Ground
M13	GND	Ground
M14	GND	Ground
M15	GND	Ground
M16	GND	Ground
M17	GND	Ground
M20	AC_AVDD	Audio block supply (3.3V)
M21	GND	Ground
M22	GND	Ground
M23	GND	Ground
N1	HA_AP2	HDMI Audio port output
N2	HA_AP1	HDMI Audio port output
N3	AC_MCLK	Audio Codec/DAC clock input
N4	AC_LRCLK	Audio DAC Left/Right clock input
N7	VDD	Video Digital supply (1.8V)
N8	GND	Ground
N9	GND	Ground
N10	GND	Ground
N11	GND	Ground
N12	GND	Ground
N13	GND	Ground
N14	GND	Ground
N15	GND	Ground
N16	GND	Ground
N17	GND	Ground
N20	PVDD	DPLL supply (1.8V)
N21	PVDD	DPLL supply (1.8V)
N22	XTALN	Xtal output
N23	XTALP	Xtal input or external clock input
P1	HA_AP0	HDMI Audio port output
P2	HA_MCLKOUT	HDMI Audio master clock output
P3	AC_SDI	Audio DAC data input
P4	AC_SCLK	Audio DAC SCLK input
P7	VDD	Video Digital supply (1.8V)
P8	GND	Ground
P9	GND	Ground
P10	GND	Ground
P11	GND	Ground
P12	GND	Ground
P13	GND	Ground
P14	GND	Ground

Pin No.	Mnemonic	Description
P15	GND	Ground
P16	GND	Ground
P17	GND	Ground
P20	GND	Ground
P21	GND	Ground
P22	GND	Ground
P23	GND	Ground
R1	TTX_SCLK	VBI data interface
R2	TTX_MOSI	VBI data interface
R3	TTX_MISO	VBI data interface
R4	TTX_CSB	VBI data interface
R7	VDD	Video Digital supply (1.8V)
R8	GND	Ground
R9	GND	Ground
R10	GND	Ground
R11	GND	Ground
R12	GND	Ground
R13	GND	Ground
R14	GND	Ground
R15	GND	Ground
R16	GND	Ground
R17	GND	Ground
R20	GND	Ground
R21	GND	Ground
R22	REFN	Analog video reference output
R23	REFP	Analog video reference output
T1	DVDDIO	I/O supply (3.3V)
T2	DVDDIO	I/O supply (3.3V)
T3	GND	Ground
T4	GND	Ground
T7	VDD	Video Digital supply (1.8V)
T8	GND	Ground
T9	GND	Ground
T10	GND	Ground
T11	GND	Ground
T12	GND	Ground
T13	GND	Ground
T14	GND	Ground
T15	GND	Ground
T16	GND	Ground
T17	GND	Ground
T20	AVDD	Video Analog supply voltage (1.8V)
T21	AVDD	Video Analog supply voltage (1.8V)
T22	AVDD	Video Analog supply voltage (1.8V)
T23	AVDD	Video Analog supply voltage (1.8V)
U1	TX_AVDD	HDMI Tx Analog Supply (1.8V)
U2	TX_AVDD	HDMI Tx Analog Supply (1.8V)
U3	GND	Ground
U4	TX_DDC_SCL	Serial clock for DDC bus of HDMI Tx. TX_DDCA_SCL is 5 V tolerant.
U7	VDD	Video Digital supply (1.8V)
U8	VDD	Video Digital supply (1.8V)
U9	VDD	Video Digital supply (1.8V)
U10	VDD	Video Digital supply (1.8V)
U11	VDD	Video Digital supply (1.8V)
U12	VDD	Video Digital supply (1.8V)
U13	VDD	Video Digital supply (1.8V)
U14	TEST2	Test pin, do not connect
U15	GND	Ground
U16	GND	Ground
U17	GND	Ground
U20	AVIN13	Analog video mux input channel
U21	AVIN12	Analog video mux input channel
U22	AVIN11	Analog video mux input channel
U23	AVIN10	Analog video mux input channel

Pin No.	Mnemonic	Description
V1	TX_2+	Digital Output Channel 2 true of the HDMI Tx.
V2	TX_2-	Digital Output Channel 2 complement of the HDMI Tx.
V3	GND	Ground
V4	TX_DDCA_SDA	Serial data for DDC bus of HDMI Tx. TX_DDCA_SDA is 5 V tolerant.
V20	AVDD	Video Analog supply voltage (1.8V)
V21	AVDD	Video Analog supply voltage (1.8V)
V22	AVDD	Video Analog supply voltage (1.8V)
V23	AVDD	Video Analog supply voltage (1.8V)
W1	TX_1+	Digital Output Channel 1 true of the HDMI Tx.
W2	TX_1-	Digital Output Channel 1 complement of the HDMI Tx.
W3	GND	Ground
W4	TX_HPD	Hot Plug Detect signal of the HDMI Tx.
W20	GND	Ground
W21	AVOUT2	Analog Video Mux output 2
W22	AVIN9	Analog video mux input channel
W23	AVIN8	Analog video mux input channel
Y1	TX_0+	Digital Output Channel 0 true of the HDMI Tx.
Y2	TX_0-	Digital Output Channel 0 complement of the HDMI Tx.
Y3	GND	Ground
Y4	GND	Ground
Y5	A7	SDRAM address line
Y6	A3	SDRAM address line
Y7	A10	SDRAM address line
Y8	BA0	SDRAM block address signal
Y9	CKE	SDRAM clock enable
Y10	GND	Ground
Y11	DQ6	SDRAM data line
Y12	DQ7	SDRAM data line
Y13	DQ0	SDRAM data line
Y14	DQ8	SDRAM data line
Y15	UDQS	SDRAM upper data strobe true signal
Y16	SDVDD	Memory interface supply
Y17	SAVDD	SDRAM interface supply
Y18	TRI1	Digital input capable of slicing bi-level or tri-level input from SCART or D-Connector.
Y19	TRI2	Digital input capable of slicing bi-level or tri-level input from SCART or D-Connector.
Y20	GND	Ground
Y21	AVOUT1	Analog Video Mux output 1
Y22	SYNC3	This is a synchronization on green or luma input (SOG/SOY) used in embedded synchronization mode.
Y23	AVIN7	Analog video mux input channel
AA1	TX_C+	Digital Output clock true of the HDMI Tx.
AA2	TX_C-	Digital Output clock complement of the HDMI Tx.
AA3	TX_AVDD	HDMI Tx Analog Supply (1.8V)
AA4	GND	Ground
AA5	A9	SDRAM address line
AA6	A5	SDRAM address line
AA7	A1	SDRAM address line
AA8	BA1	SDRAM block address signal
AA9	WE	SDRAM write enable signal
AA10	GND	Ground
AA11	DQ4	SDRAM data line
AA12	DQ5	SDRAM data line
AA13	DQ2	SDRAM data line
AA14	DQ11	SDRAM data line
AA15	UDQSN	SDRAM upper data strobe compliment signal
AA16	SDVDD	Memory interface supply
AA17	GND	Ground
AA18	HS_IN1/TRI7	HS on Graphics Port. The HS input signal is used for 5-wire timing mode. This ball can also be used as a trilevel/bilevel input on the SCART or D-terminal connector.
AA19	VS_IN1/TRI8	VS on Graphics Port. The VS input signal is used for 5-wire timing mode. This ball can also be used as a trilevel/bilevel input on the SCART or D-terminal connector.
AA20	GND	Ground
AA21	TRI3	Digital input capable of slicing bi-level or tri-level input from SCART or D-Connector.
AA22	HS_IN2/TRI5	The HS input signal is used for 5-wire timing mode. This ball can also be used as a

Pin No.	Mnemonic	Description
AA23	VS_IN2/TRI6	trilevel/bilevel input on the SCART or D-terminal connector. The VS input signal is used for 5-wire timing mode. This ball can also be used as a trilevel/bilevel input on the SCART or D-terminal connector.
AB1	GND	Ground
AB2	TX_PVDD	HDMI Tx digital supply (1.8V)
AB3	TX_PLVDD	HDMI Tx PLL digital supply (1.8V). It is important to ensure that this supply pin has a clean voltage input.
AB4	SDVDD	Memory interface supply
AB5	A11	SDRAM address line
AB6	A6	SDRAM address line
AB7	A2	SDRAM address line
AB8	CAS	SDRAM interface Column Address Select Command Signal. One of four command signals to the external SDRAM.
AB9	RAS	SDRAM interface Row Address Select Command Signal. One of four command signals to the external SDRAM.
AB10	VREF	Termination reference voltage for memory interface
AB11	SDVDD	Memory interface supply
AB12	LDQSN	SDRAM lower data strobe compliment signal
AB13	DQ3	SDRAM data line
AB14	DQ10	SDRAM data line
AB15	DQ12	SDRAM data line
AB16	DQ14	SDRAM data line
AB17	GND	Ground
AB18	SYNC1	This is a synchronization on green or luma input (SOG/SOY) used in embedded synchronization mode.
AB19	AVIN3	Analog video mux input channel
AB20	GND	Ground
AB21	SYNC2	This is a synchronization on green or luma input (SOG/SOY) used in embedded synchronization mode.
AB22	AVIN6	Analog video mux input channel
AB23	TRI4	Digital input capable of slicing bi-level or tri-level input from SCART or D-Connector.
AC1	GND	Ground
AC2	TX_RTERM	This signal sets the internal termination resistance. A 500R resistor between this ball and GND should be used.
AC3	TX_VDD33	HDMI Tx PLL Regulator Supply input (3.3V). This pin is an internal voltage regulator input.
AC4	SDVDD	Memory interface supply
AC5	A8	SDRAM address line
AC6	A4	SDRAM address line
AC7	A0	SDRAM address line
AC8	CS	SDRAM interface Chip Select. SDRAM CS Enables and disables the command decoder on the RAM. One of four command signals to the external SDRAM.
AC9	CKN	SDRAM interface Differential Clock Compliment Output. All address and control output signals to the RAM should be sampled on the positive edge of CK and on the negative edge of CKN.
AC10	CK	SDRAM interface Differential Clock Right Output. All address and control output signals to the RAM should be sampled on the positive edge of CK and on the negative edge of CKN.
AC11	SDVDD	Memory interface supply
AC12	LDQS	SDRAM lower data strobe true signal
AC13	DQ1	SDRAM data line
AC14	DQ9	SDRAM data line
AC15	DQ15	SDRAM data line
AC16	DQ13	SDRAM data line
AC17	GND	Ground
AC18	AVIN1	Analog video mux input channel
AC19	AVIN2	Analog video mux input channel
AC20	GND	Ground
AC21	AVIN4	Analog video mux input channel
AC22	AVIN5	Analog video mux input channel
AC23	GND	Ground

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
A	OSD_IN[23] EXT_DIN[7]	OSD_DE	OSD_CLK/EXT_CLK	AUD_IN[1]	AUD_IN[2]	AUD_IN[5]	ARC2_OUT	MOSI1	SCK2	CS2	RESET	XTALN	PVDD2	NC	NC	CVDD1	RX_CN	RX_ON	RX_1N	RX_2N	CVDD1	RSET1	VREF	A
B	OSD_IN[21] EXT_DIN[5]	OSD_IN[22] EXT_DIN[6]	OSD_VS	AUD_IN[0]	AUD_IN[3]	SFL	ARC1_OUT	MISO1	MOSI2	MISO2	ALSB	XTALP	PVDD1	NC	NC	GND	RX_CP	RX_OP	RX_1P	RX_2P	GND	COMP1	DAC4	B
C	OSD_IN[19] EXT_DIN[3]	OSD_IN[20] EXT_DIN[4]	GND	AUD_IN[4]	DSD_CLK	SCLK	SCL	SCK1	GND	INT0	PDN	GND	GND	NC	NC	RX_HPD	AVDD1	GND	GND	AVDD1	AVDD1	DAC5	DAC6	C
D	OSD_IN[16] EXT_DIN[0]	OSD_IN[17] EXT_DIN[1]	OSD_IN[18] EXT_DIN[2]	GND	DVDD_IO	MCLK	SDA	CS1	GND	INT1	INT2	DVDD_IO	TEST1	NC	NC	RX_5V	NC	NC	RTERM	AVDD2	AVDD2	DAC1	DAC2	D
E	OSD_IN[13] VBI_SCK	OSD_IN[14] VBI_MOSI	OSD_IN[15] VBI_CS	DVDD_IO																TEST2	GND	COMP2	DAC3	E
F	OSD_IN[9]	OSD_IN[10]	OSD_IN[11]	OSD_IN[12]																RSET2	PVDD3	GND	CEC1	F
G	OSD_IN[5]	OSD_IN[6]	OSD_IN[7]	OSD_IN[8]			GND	GND	GND	DVDD	GND	GND	DVDD	GND	GND	GND	GND			ELPF1	ELPF2	GND	AVDD3	G
H	OSD_IN[1]	OSD_IN[2]	OSD_IN[3]	OSD_IN[4]			GND	GND	GND	GND	GND	GND	GND	GND	GND	GND			GND	GND	TX1_2+	TX1_2-		H
J	DE	HS	OSD_HS	OSD_IN[0]			DVDD	GND	GND	GND	GND	GND	GND	GND	GND	GND	DVDD			DDC1_SDA	GND	TX1_1+	TX1_1-	J
K	VS	PCLK	DVDD_IO	DVDD_IO			GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND			DDC1_SCL	GND	TX1_0+	TX1_0-	K
L	P[32]	P[33]	P[34]	P[35]			DVDD	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND			HPD_TX1	GND	TX1_C+	TX1_C-	L
M	P[28]	P[29]	P[30]	P[31]			GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND			R_TX1	PVDD5	HEAC_1+	HEAC_1-	M
N	P[24]	P[25]	P[26]	P[27]			GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND			CEC2	PVDD5	AVDD3	NC	N
P	P[20]	P[21]	P[22]	P[23]			DVDD	GND	GND	GND	GND	GND	GND	GND	GND	GND	DVDD			DDC2_SCL	GND	TX2_2+	TX2_2-	P
R	P[16]	P[17]	P[18]	P[19]			GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND			DDC2_SDA	GND	TX2_1+	TX2_1-	R
T	P[14]	P[15]	GND	GND			GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND			HPD_TX2	GND	TX2_0+	TX2_0-	T
U	P[10]	P[11]	P[12]	P[13]			GND	GND	DVDD	GND	GND	DVDD	GND	GND	DVDD	GND	GND			R_TX2	GND	TX2_C+	TX2_C-	U
V	P[6]	P[7]	P[8]	P[9]																GND	PVDD6	HEAC_2+	HEAC_2-	V
W	P[2]	P[3]	P[4]	P[5]																TEST3	PVDD6	AVDD3	NC	W
Y	P[0]	P[1]	DDR_DQS[2]	GND	DDR_DQ[23]	DVDD_DDR	DDR_DQS[3]	GND	DDR_A[11]	DVDD_DDR	DDR_A[4]	GND	DDR_CAS	DVDD_DDR	DDR_CK	GND	DDR_DQ[9]	DVDD_DDR	DDR_DQ[14]	GND	DDR_DQ[6]	PVDD_DDR	GND	Y
AA	DDR_DQ[18]	GND	GND	DDR_DQS[2]	DDR_DQ[26]	DVDD_DDR	DDR_DQS[3]	NC/GND	DDR_A[8]	DVDD_DDR	DDR_A[2]	GND	DDR_CS	DVDD_DDR	DDR_CK	GND	DDR_DQ[11]	DVDD_DDR	DDR_DM[1]	DDR_DM[0]	GND	GND	DDR_DQ[3]	AA
AB	DDR_DQ[21]	DDR_DQ[19]	DDR_DQ[17]	DDR_DM[2]	DDR_DQ[30]	DDR_DM[3]	DDR_DQ[31]	DDR_DQ[29]	DDR_A[12]	DDR_A[6]	DDR_A[3]	DDR_A[0]	DDR_BA[0]	DDR_RAS	DDR_CKE	DDR_DQ[12]	DDR_DQS[1]	DDR_DQ[8]	DDR_DQ[13]	DDR_DQ[0]	DDR_DQ[5]	DDR_DQS[0]	DDR_DQ[4]	AB
AC	DDR_DQ[16]	DDR_DQ[20]	DDR_DQ[22]	DDR_DQ[25]	DDR_DQ[28]	DDR_DQ[27]	DDR_DQ[24]	DDR_A[9]	DDR_A[5]	DDR_A[7]	DDR_A[1]	DDR_A[10]	DDR_BA[1]	DDR_BA[2]	DDR_WE	DDR_VREF	DDR_DQ[10]	DDR_DQS[1]	DDR_DQ[15]	DDR_DQ[7]	DDR_DQ[2]	DDR_DQS[0]	DDR_DQ[1]	AC
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	

Pin No.	Mnemonic	Type	Description
A1	OSD_IN[23]/EXT_DIN[7]	OSD video input/ miscellaneous digital	External OSD Video Pixel Input Port (OSD_IN[23])/Additional TTL Input for External CCIR 656 Video Data (EXT_DIN[7]).
A2	OSD_DE	OSD video sync	Data Enable for the OSD Input Port.
A3	OSD_CLK/EXT_CLK	OSD video sync	Pixel Clock for the OSD Input Port (OSD_CLK)/Pixel Clock for External Video Data (EXT_CLK).
A4	AUD_IN[1]	Audio input	I ² S0/DSD1 Audio Input.
A5	AUD_IN[2]	Audio input	I ² S1/DSD2 Audio Input.
A6	AUD_IN[5]	Audio input	LRCLK/DSD5 Audio Input.
A7	ARC2_OUT	Audio output	Audio Return Channel for HDMI Tx2.
A8	MOSI1	Serial port control	Master Out Slave In (Serial Port 1). Serial Port 1 is used for OSD control.
A9	SCK2	Serial port control	Serial Clock (Serial Port 2). Serial Port 2 is used for the external flash ROM.
A10	$\overline{\text{CS2}}$	Serial port control	Chip Select (Serial Port 2). Serial Port 2 is used for the external flash ROM.
A11	$\overline{\text{RESET}}$	Miscellaneous digital	Reset Pin for the ADV8003.
A12	XTALN	Miscellaneous digital	Crystal Input.
A13	PVDD2	Power	PLL Digital Supply Voltage (1.8 V).
A14	NC	No connect	Do not connect to this pin.
A15	NC	No connect	Do not connect to this pin.
A16	CVDD1	Power	Comparator Supply Voltage (1.8 V).
A17	RX_CN	Rx input	Rx Clock Complement Input.
A18	RX_ON	Rx input	Rx Channel 0 Complement Input.
A19	RX_1N	Rx input	Rx Channel 1 Complement Input.
A20	RX_2N	Rx input	Rx Channel 2 Complement Input.
A21	CVDD1	Power	Comparator Supply Voltage (1.8 V).
A22	RSET1	Miscellaneous analog ¹	Resistor Current Setting for Encoder DACs: DAC1, DAC2, and DAC3. The RSET resistor should be placed as close as possible to the ADV8003.
A23	VREF	Miscellaneous analog ¹	Optional External Voltage Reference Input for DACs or Voltage Reference Output. Place VREF voltage components as close as possible to the ADV8003.
B1	OSD_IN[21]/EXT_DIN[5]	OSD video input/ miscellaneous digital	External OSD Video Pixel Input Port (OSD_IN[21])/Additional TTL Input for External CCIR 656 Video Data (EXT_DIN[5]).
B2	OSD_IN[22]/EXT_DIN[6]	OSD video input/ miscellaneous digital	External OSD Video Pixel Input Port (OSD_IN[22])/Additional TTL Input for External CCIR 656 Video Data (EXT_DIN[6]).
B3	OSD_VS	OSD video sync	Vertical Sync for the OSD Input Port.
B4	AUD_IN[0]	Audio input	S/PDIF/DSD0 Audio Input.
B5	AUD_IN[3]	Audio input	I ² S2/DSD3 Audio Input.
B6	SFL	SFL	Subcarrier Frequency Lock Signal (SFL).
B7	ARC1_OUT	Audio output	Audio Return Channel for HDMI Tx1.
B8	MISO1	Serial port control	Master In Slave Out (Serial Port 1). Serial Port 1 is used for OSD control.
B9	MOSI2	Serial port control	Master Out Slave In (Serial Port 2). Serial Port 2 is used for the external flash ROM.
B10	MISO2	Serial port control	Master In Slave Out (Serial Port 2). Serial Port 2 is used for the external flash ROM.
B11	ALSb	I ² C control	Sets LSB of ADV8003 I ² C address (0x18 with LSB low, 0x1A with LSB high).
B12	XTALP	Miscellaneous digital ¹	ADV8003 Crystal Input.
B13	PVDD1	Power	PLL Analog Supply Voltage (1.8 V).
B14	NC	No connect	Do not connect to this pin.
B15	NC	No connect	Do not connect to this pin.
B16	GND	GND	Ground.
B17	RX_CP	Rx input	Rx Clock True Input.
B18	RX_OP	Rx input	Rx Channel 0 True Input.
B19	RX_1P	Rx input	Rx Channel 1 True Input.
B20	RX_2P	Rx input	Rx Channel 2 True Input.
B21	GND	GND	Ground.
B22	COMP1	Miscellaneous analog ¹	Compensation Pin. Connect a 2.2 nF capacitor to AVDD2.
B23	DAC4	Analog video output	Encoder DAC4 Output.

Pin No.	Mnemonic	Type	Description
C1	OSD_IN[19]/EXT_DIN[3]	OSD video input/ miscellaneous digital	External OSD Video Pixel Input Port (OSD_IN[19])/Additional TTL Input for External CCIR 656 Video Data (EXT_DIN[3]).
C2	OSD_IN[20]/EXT_DIN[4]	OSD video input/ miscellaneous digital	External OSD Video Pixel Input Port (OSD_IN[20])/Additional TTL Input for External CCIR 656 Video Data (EXT_DIN[4]).
C3	GND	GND	Ground.
C4	AUD_IN[4]	Audio input	I ² S3/DSD4 Audio Input.
C5	DSD_CLK	Audio input	DSD Audio Clock Input.
C6	SCLK	Audio input	I ² S Bit Clock Input.
C7	SCL	I ² C control	I ² C Clock Input. This pin is open drain; use a 4.7 k Ω resistor to connect this pin to a 3.3 V supply.
C8	SCK1	Serial port control	Serial Clock (Serial Port 1). Serial Port 1 is used for OSD control.
C9	GND	GND	Ground.
C10	INT0	Miscellaneous digital	Interrupt Pin 0. When status bits change, this pin is triggered.
C11	PDN	Miscellaneous digital	Power-Down. This pin controls the power state of the ADV8003.
C12	GND	GND	Ground.
C13	GND	GND	Ground.
C14	NC	No connect	Do not connect to this pin.
C15	NC	No connect	Do not connect to this pin.
C16	RX_HPD	Rx input	Hot Plug Assert Signal Output for the Rx Input.
C17	AVDD1	Power	HDMI Rx Inputs Analog Supply (3.3 V).
C18	GND	GND	Ground.
C19	GND	GND	Ground.
C20	AVDD1	Power	HDMI Rx Inputs Analog Supply (3.3 V).
C21	AVDD1	Power	HDMI Rx Inputs Analog Supply (3.3 V).
C22	DAC5	Analog video output	Encoder DAC5 Output.
C23	DAC6	Analog video output	Encoder DAC6 Output.
D1	OSD_IN[16]/EXT_DIN[0]	OSD video input/ miscellaneous digital	External OSD Video Pixel Input Port (OSD_IN[16])/Additional TTL Input for External CCIR 656 Video Data (EXT_DIN[0]).
D2	OSD_IN[17]/EXT_DIN[1]	OSD video input/ miscellaneous digital	External OSD Video Pixel Input Port (OSD_IN[17])/Additional TTL Input for External CCIR 656 Video Data (EXT_DIN[1]).
D3	OSD_IN[18]/EXT_DIN[2]	OSD video input/ miscellaneous digital	External OSD Video Pixel Input Port (OSD_IN[18])/Additional TTL Input for External CCIR 656 Video Data (EXT_DIN[2]).
D4	GND	GND	Ground.
D5	DVDD_IO	Power	Digital Interface Supply (3.3 V).
D6	MCLK	Audio input	MCLK for S/PDIF Input Audio.
D7	SDA	I ² C control	I ² C Data Input. This pin is open drain; use a 4.7 k Ω resistor to connect this pin to a 3.3 V supply.
D8	$\overline{CS1}$	Serial port control	Chip Select (Serial Port 1). Serial Port 1 is used for OSD control.
D9	GND	GND	Ground.
D10	INT1	Miscellaneous digital	Interrupt Pin for HDMI Transmitter Outputs. When status bits change, an interrupt is generated on this pin.
D11	INT2	Miscellaneous digital	Interrupt Pin for HDMI Receiver Input Lines. When status bits change, an interrupt is generated on this pin.
D12	DVDD_IO	Power	Digital Interface Supply (3.3 V).
D13	TEST1	Miscellaneous digital	Test Pin.
D14	NC	No connect	Do not connect to this pin.
D15	NC	No connect	Do not connect to this pin.
D16	RX_5V	Rx input	5 V Detect Pin for the Rx Input.
D17	NC	No connect	Do not connect to this pin.
D18	NC	No connect	Do not connect to this pin.
D19	RTERM	HDMI Rx input	This pin sets internal termination resistance. Use a 500 Ω resistor between this pin and GND. Place the RTERM resistor as close as possible to the ADV8003.
D20	AVDD2	Power	Encoder Analog Power Supply (3.3 V).
D21	AVDD2	Power	Encoder Analog Power Supply (3.3 V).

Pin No.	Mnemonic	Type	Description
D22	DAC1	Analog video output	Encoder DAC1 Output.
D23	DAC2	Analog video output	Encoder DAC2 Output.
E1	OSD_IN[13]/VBI_SCK	OSD video input/ miscellaneous digital	External OSD Video Pixel Input Port (OSD_IN[13])/Serial Clock for VBI Data Serial Port (VBI_SCK).
E2	OSD_IN[14]/VBI_MOSI	OSD video input/ miscellaneous digital	External OSD Video Pixel Input Port (OSD_IN[14])/Master Out Slave In for VBI Data Serial Port (VBI_MOSI).
E3	OSD_IN[15]/VBI_C $\overline{S}$	OSD video input/ miscellaneous digital	External OSD Video Pixel Input Port (OSD_IN[15])/Chip Select for VBI Data Serial Port (VBI_C $\overline{S}$).
E4	DVDD_IO	Power	Digital Interface Supply (3.3 V).
E20	TEST2	Miscellaneous analog	Test Pin.
E21	GND	GND	Ground.
E22	COMP2	Miscellaneous analog ¹	Compensation Pin. Connect a 2.2 nF capacitor to AVDD2.
E23	DAC3	Analog video output	Encoder DAC3 Output.
F1	OSD_IN[9]	OSD video input	External OSD Video Pixel Input Port (OSD_IN[9]).
F2	OSD_IN[10]	OSD video input	External OSD Video Pixel Input Port (OSD_IN[10]).
F3	OSD_IN[11]	OSD video input	External OSD Video Pixel Input Port (OSD_IN[11]).
F4	OSD_IN[12]	OSD video input/ miscellaneous digital	External OSD Video Pixel Input Port.
F20	RSET2	Miscellaneous analog ¹	Resistor Current Setting for Encoder DACs: DAC4, DAC5, and DAC6. Place the RSET resistor as close as possible to the ADV8003.
F21	PVDD3	Power	Encoder PLL Supply (1.8 V).
F22	GND	GND	Ground.
F23	CEC1	HDMI Tx1	HDMI Tx1 Consumer Electronics Control (CEC).
G1	OSD_IN[5]	OSD video input	External OSD Video Pixel Input Port (OSD_IN[5]).
G2	OSD_IN[6]	OSD video input	External OSD Video Pixel Input Port (OSD_IN[6]).
G3	OSD_IN[7]	OSD video input	External OSD Video Pixel Input Port (OSD_IN[7]).
G4	OSD_IN[8]	OSD video input	External OSD Video Pixel Input Port (OSD_IN[8]).
G7	GND	GND	Ground.
G8	GND	GND	Ground.
G9	GND	GND	Ground.
G10	DVDD	Power	Digital Power Supply (1.8 V).
G11	GND	GND	Ground.
G12	GND	GND	Ground.
G13	DVDD	Power	Digital Power Supply (1.8 V).
G14	GND	GND	Ground.
G15	GND	GND	Ground.
G16	GND	GND	Ground.
G17	GND	GND	Ground.
G20	ELPF1	Miscellaneous analog ¹	External Loop Filter for Video Encoder PLL 1. Connected to PVDD3.
G21	ELPF2	Miscellaneous analog ¹	External Loop Filter for Video Encoder PLL 2. Connected to PVDD3.
G22	GND	GND	Ground.
G23	AVDD3	Power	HDMI Analog Power Supply (1.8 V).
H1	OSD_IN[1]	OSD video input	External OSD Video Pixel Input Port (OSD_IN[1]).
H2	OSD_IN[2]	OSD video input	External OSD Video Pixel Input Port (OSD_IN[2]).
H3	OSD_IN[3]	OSD video input	External OSD Video Pixel Input Port (OSD_IN[3]).
H4	OSD_IN[4]	OSD video input	External OSD Video Pixel Input Port (OSD_IN[4]).
H7	GND	GND	Ground.
H8	GND	GND	Ground.
H9	GND	GND	Ground.
H10	GND	GND	Ground.
H11	GND	GND	Ground.
H12	GND	GND	Ground.
H13	GND	GND	Ground.

Pin No.	Mnemonic	Type	Description
H14	GND	GND	Ground.
H15	GND	GND	Ground.
H16	GND	GND	Ground.
H17	GND	GND	Ground.
H20	GND	GND	Ground.
H21	GND	GND	Ground.
H22	TX1_2+	HDMI Tx1	HDMI1 Channel 2 True Output.
H23	TX1_2–	HDMI Tx1	HDMI1 Channel 2 Complementary Output.
J1	DE	Digital video sync	Data Enable for Digital Input Video.
J2	HS	Digital video sync	Horizontal Sync for Digital Input Video.
J3	OSD_HS	Digital video sync	Horizontal Sync for the OSD Input Port (OSD_HS).
J4	OSD_IN[0]	OSD video input	External OSD Video Pixel Input Port (OSD_IN[0]).
J7	DVDD	Power	Digital Power Supply (1.8 V).
J8	GND	GND	Ground.
J9	GND	GND	Ground.
J10	GND	GND	Ground.
J11	GND	GND	Ground.
J12	GND	GND	Ground.
J13	GND	GND	Ground.
J14	GND	GND	Ground.
J15	GND	GND	Ground.
J16	GND	GND	Ground.
J17	DVDD	Power	Digital Power Supply (1.8 V).
J20	DDC1_SDA	HDMI Tx1	HDCE Slave Serial Data for HDMI Tx1. This pin is open drain; use a 2 k Ω resistor to connect this pin to the HDMI Tx 5 V supply.
J21	GND	GND	Ground.
J22	TX1_1+	HDMI Tx1	HDMI1 Channel 1 True Output.
J23	TX1_1–	HDMI Tx1	HDMI1 Channel 1 Complementary Output.
K1	VS	Digital video sync	Vertical Sync for Digital Input Video.
K2	PCLK	Digital Video Sync	Pixel Clock for Digital Input Video.
K3	DVDD_IO	Power	Digital Interface Supply (3.3 V).
K4	DVDD_IO	Power	Digital Interface Supply (3.3 V).
K7	GND	GND	Ground.
K8	GND	GND	Ground.
K9	GND	GND	Ground.
K10	GND	GND	Ground.
K11	GND	GND	Ground.
K12	GND	GND	Ground.
K13	GND	GND	Ground.
K14	GND	GND	Ground.
K15	GND	GND	Ground.
K16	GND	GND	Ground.
K17	GND	GND	Ground.
K20	DDC1_SCL	HDMI Tx1	HDCE Slave Serial Clock for HDMI Tx1. This pin is open drain; use a 2 k Ω resistor to connect this pin to the HDMI Tx 5 V supply.
K21	GND	GND	Ground.
K22	TX1_0+	HDMI Tx1	HDMI1 Channel 0 True Output.
K23	TX1_0–	HDMI Tx1	HDMI1 Channel 0 Complementary Output.
L1	P[32]	Digital video input	Digital Video Input Bus[35:0].
L2	P[33]	Digital video input	Digital Video Input Bus[35:0].
L3	P[34]	Digital video input	Digital Video Input Bus[35:0].
L4	P[35]	Digital video input	Digital Video Input Bus[35:0].

Pin No.	Mnemonic	Type	Description
L7	DVDD	Power	Digital Power Supply (1.8 V).
L8	GND	GND	Ground.
L9	GND	GND	Ground.
L10	GND	GND	Ground.
L11	GND	GND	Ground.
L12	GND	GND	Ground.
L13	GND	GND	Ground.
L14	GND	GND	Ground.
L15	GND	GND	Ground.
L16	GND	GND	Ground.
L17	GND	GND	Ground.
L20	HPD_TX1	HDMI Tx1	Hot Plug Assert Signal Input for HDMI Tx1.
L21	GND	GND	Ground.
L22	TX1_C+	HDMI Tx1	HDMI1 Clock True Output.
L23	TX1_C-	HDMI Tx1	HDMI1 Clock Complementary Output.
M1	P[28]	Digital video input	Digital Video Input Bus[35:0].
M2	P[29]	Digital video input	Digital Video Input Bus[35:0].
M3	P[30]	Digital video input	Digital Video Input Bus[35:0].
M4	P[31]	Digital video input	Digital Video Input Bus[35:0].
M7	GND	GND	Ground.
M8	GND	GND	Ground.
M9	GND	GND	Ground.
M10	GND	GND	Ground.
M11	GND	GND	Ground.
M12	GND	GND	Ground.
M13	GND	GND	Ground.
M14	GND	GND	Ground.
M15	GND	GND	Ground.
M16	GND	GND	Ground.
M17	GND	GND	Ground.
M20	R_TX1	HDMI Tx1 ¹	Sets Internal Reference Currents. Place a 470 Ω resistor (1% tolerance) between this pin and ground. The external resistor should be placed as close as possible to the ADV8003.
M21	PVDD5	Power	HDMI Tx PLL Power Supply (1.8 V). This pin is a voltage regulator output. Connect a decoupling capacitor between this pin and ground.
M22	HEAC_1+	HDMI Tx1	HDMI Tx1 HEC+ from HDMI Connector.
M23	HEAC_1-	HDMI Tx1	HDMI Tx1 HEC- from HDMI Connector.
N1	P[24]	Digital video input	Digital Video Input Bus[35:0].
N2	P[25]	Digital video input	Digital Video Input Bus[35:0].
N3	P[26]	Digital video input	Digital Video Input Bus[35:0].
N4	P[27]	Digital video input	Digital Video Input Bus[35:0].
N7	GND	GND	Ground.
N8	GND	GND	Ground.
N9	GND	GND	Ground.
N10	GND	GND	Ground.
N11	GND	GND	Ground.
N12	GND	GND	Ground.
N13	GND	GND	Ground.
N14	GND	GND	Ground.
N15	GND	GND	Ground.
N16	GND	GND	Ground.
N17	GND	GND	Ground.

Pin No.	Mnemonic	Type	Description
N20	CEC2	HDMI Tx2	HDMI Tx2 Consumer Electronics Control (CEC).
N21	PVDD5	Power ¹	HDMI Tx PLL Power Supply (1.8 V). This pin is a voltage regulator output. Connect a decoupling capacitor between this pin and ground.
N22	AVDD3	Power	HDMI Analog Power Supply (1.8 V).
N23	NC	No connect	Do not connect to this pin.
P1	P[20]	Digital video input	Digital Video Input Bus[35:0].
P2	P[21]	Digital video input	Digital Video Input Bus[35:0].
P3	P[22]	Digital video input	Digital Video Input Bus[35:0].
P4	P[23]	Digital video input	Digital Video Input Bus[35:0].
P7	DVDD	Power	Digital Power Supply (1.8 V).
P8	GND	GND	Ground.
P9	GND	GND	Ground.
P10	GND	GND	Ground.
P11	GND	GND	Ground.
P12	GND	GND	Ground.
P13	GND	GND	Ground.
P14	GND	GND	Ground.
P15	GND	GND	Ground.
P16	GND	GND	Ground.
P17	DVDD	Power	Digital Power Supply (1.8 V).
P20	DDC2_SCL	HDMI Tx2	HDCP Slave Serial Clock for HDMI Tx2. This pin is open drain; use a 2 k Ω resistor to connect this pin to the HDMI Tx 5 V supply.
P21	GND	GND	Ground.
P22	TX2_2+	HDMI Tx2	HDMI2 Channel 2 True Output.
P23	TX2_2–	HDMI Tx2	HDMI2 Channel 2 Complementary Output.
R1	P[16]	Digital video input	Digital Video Input Bus[35:0].
R2	P[17]	Digital video input	Digital Video Input Bus[35:0].
R3	P[18]	Digital video input	Digital Video Input Bus[35:0].
R4	P[19]	Digital video input	Digital Video Input Bus[35:0].
R7	GND	GND	Ground.
R8	GND	GND	Ground.
R9	GND	GND	Ground.
R10	GND	GND	Ground.
R11	GND	GND	Ground.
R12	GND	GND	Ground.
R13	GND	GND	Ground.
R14	GND	GND	Ground.
R15	GND	GND	Ground.
R16	GND	GND	Ground.
R17	GND	GND	Ground.
R20	DDC2_SDA	HDMI Tx2	HDCP Slave Serial Data for HDMI Tx2. This pin is open drain; use a 2 k Ω resistor to connect this pin to the HDMI Tx 5 V supply.
R21	GND	GND	Ground.
R22	TX2_1+	HDMI Tx2	HDMI2 Channel 1 True Output.
R23	TX2_1–	HDMI Tx2	HDMI2 Channel 1 Complementary Output.
T1	P[14]	Digital video input	Digital Video Input Bus[35:0].
T2	P[15]	Digital video input	Digital Video Input Bus[35:0].
T3	GND	GND	Ground.
T4	GND	GND	Ground.
T7	GND	GND	Ground.
T8	GND	GND	Ground.
T9	GND	GND	Ground.

Pin No.	Mnemonic	Type	Description
T10	GND	GND	Ground.
T11	GND	GND	Ground.
T12	GND	GND	Ground.
T13	GND	GND	Ground.
T14	GND	GND	Ground.
T15	GND	GND	Ground.
T16	GND	GND	Ground.
T17	GND	GND	Ground.
T20	HPD_TX2	HDMI Tx2	Hot Plug Assert Signal Input for HDMI Tx2.
T21	GND	GND	Ground.
T22	TX2_0+	HDMI Tx2	HDMI2 Channel 0 True Output.
T23	TX2_0–	HDMI Tx2	HDMI2 Channel 0 Complementary Output.
U1	P[10]	Digital video input	Digital Video Input Bus[35:0].
U2	P[11]	Digital video input	Digital Video Input Bus[35:0].
U3	P[12]	Digital video input	Digital Video Input Bus[35:0].
U4	P[13]	Digital video input	Digital Video Input Bus[35:0].
U7	GND	GND	Ground.
U8	GND	GND	Ground.
U9	DVDD	Power	Digital Power Supply (1.8 V).
U10	GND	GND	Ground.
U11	GND	GND	Ground.
U12	DVDD	Power	Digital Power Supply (1.8 V).
U13	GND	GND	Ground.
U14	GND	GND	Ground.
U15	DVDD	Power	Digital Power Supply (1.8 V).
U16	GND	GND	Ground.
U17	GND	GND	Ground.
U20	R_TX2	HDMI Tx2 ¹	Sets internal reference currents. Place a 470 Ω resistor (1% tolerance) between this pin and ground. The external resistor should be placed as close as possible to the ADV8003.
U21	GND	GND	Ground.
U22	TX2_C+	HDMI Tx2 ¹	HDMI2 Clock True Output.
U23	TX2_C–	HDMI Tx2 ¹	HDMI2 Clock Complementary Output.
V1	P[6]	Digital video input	Digital Video Input Bus[35:0].
V2	P[7]	Digital video input	Digital Video Input Bus[35:0].
V3	P[8]	Digital video input	Digital Video Input Bus[35:0].
V4	P[9]	Digital video input	Digital Video Input Bus[35:0].
V20	GND	GND	Ground.
V21	PVDD6	Power	HDMI Tx PLL Power Supply (1.8 V). This pin is a voltage regulator output. Connect a decoupling capacitor between this pin and ground.
V22	HEAC_2+	HDMI Tx2	HDMI Tx2 HEC+ from HDMI Connector.
V23	HEAC_2–	HDMI Tx2	HDMI Tx2 HEC– from HDMI Connector.
W1	P[2]	Digital video input	Digital Video Input Bus[35:0].
W2	P[3]	Digital video input	Digital Video Input Bus[35:0].
W3	P[4]	Digital video input	Digital Video Input Bus[35:0].
W4	P[5]	Digital video input	Digital Video Input Bus[35:0].
W20	TEST3	Miscellaneous digital	Test Pin.
W21	PVDD6	Power ¹	HDMI Tx PLL Power Supply (1.8 V). This pin is a voltage regulator output. Connect a decoupling capacitor between this pin and ground.
W22	AVDD3	Power	HDMI Analog Power Supply (1.8 V).
W23	NC	No connect	Do not connect to this pin.
Y1	P[0]	Digital video input	Digital Video Input Bus[35:0].
Y2	P[1]	Digital video input	Digital Video Input Bus[35:0].

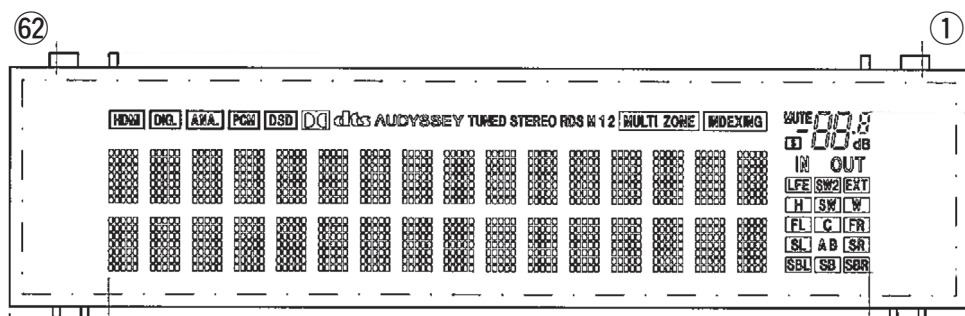
Pin No.	Mnemonic	Type	Description
Y3	DDR_DQS[2]	DDR interface	Data Strobe for DDR Data Byte[23:16].
Y4	GND	GND	Ground.
Y5	DDR_DQ[23]	DDR interface	Data Line. Interface to external RAM data lines.
Y6	DVDD_DDR	Power	DDR Interface Supply (1.8 V).
Y7	DDR_DQS[3]	DDR interface	Data Strobe for DDR Data Byte[31:24].
Y8	GND	GND	Ground.
Y9	DDR_A[11]	DDR interface	Address Line. Interface to external RAM address lines.
Y10	DVDD_DDR	Power	DDR Interface Supply (1.8 V).
Y11	DDR_A[4]	DDR interface	Address Line. Interface to external RAM address lines.
Y12	GND	GND	Ground.
Y13	DDR_CAS	DDR interface	Column Address Strobe for DDR Memory.
Y14	DVDD_DDR	Power	DDR Interface Supply (1.8 V).
Y15	DDR_CK	DDR interface	DDR Memory Clock. Interface to external DDR RAM clock lines.
Y16	GND	GND	Ground.
Y17	DDR_DQ[9]	DDR Interface	Data Line. Interface to external RAM data lines.
Y18	DVDD_DDR	Power	DDR Interface Supply (1.8 V).
Y19	DDR_DQ[14]	DDR interface	Data Line. Interface to external RAM data lines.
Y20	GND	GND	Ground.
Y21	DDR_DQ[6]	DDR interface	Data Line. Interface to external RAM data lines.
Y22	PVDD_DDR	Power	DDR Interface PLL Supply (1.8 V).
Y23	GND	GND	Ground.
AA1	DDR_DQ[18]	DDR interface	Data Line. Interface to external RAM data lines.
AA2	GND	GND	Ground.
AA3	GND	GND	Ground.
AA4	DDR_DQS[2]	DDR interface	Data Strobe for DDR Data Byte[23:16].
AA5	DDR_DQ[26]	DDR interface	Data Line. Interface to external RAM data lines.
AA6	DVDD_DDR	Power	DDR Interface Supply (1.8 V).
AA7	DDR_DQS[3]	DDR interface	Data Strobe for DDR Data Byte[31:24].
AA8	NC/GND	No connect/GND	For new ADV8003 designs, do not connect to this pin. For designs that must maintain consistency with the ADV8002, this pin can be grounded.
AA9	DDR_A[8]	DDR interface	Address Line. Interface to external RAM address lines.
AA10	DVDD_DDR	Power	DDR Interface Supply (1.8 V).
AA11	DDR_A[2]	DDR interface	Address Line. Interface to external RAM address lines.
AA12	GND	GND	Ground.
AA13	DDR_CS	DDR interface	DDR Chip Select. Interface to external DDR RAM chip selects.
AA14	DVDD_DDR	Power	DDR Interface Supply (1.8 V).
AA15	DDR_CK	DDR interface	DDR Memory Clock. Interface to external DDR RAM clock lines.
AA16	GND	GND	Ground.
AA17	DDR_DQ[11]	DDR interface	Data Line. Interface to external RAM data lines.
AA18	DVDD_DDR	Power	DDR Interface Supply (1.8 V).
AA19	DDR_DM[1]	DDR interface	Data Mask for Data Lines[15:8].
AA20	DDR_DM[0]	DDR interface	Data Mask for Data Lines[7:0].
AA21	GND	GND	Ground.
AA22	GND	GND	Ground.
AA23	DDR_DQ[3]	DDR interface	Data Line. Interface to external RAM data lines.
AB1	DDR_DQ[21]	DDR interface	Data Line. Interface to external RAM data lines.
AB2	DDR_DQ[19]	DDR interface	Data Line. Interface to external RAM data lines.
AB3	DDR_DQ[17]	DDR interface	Data Line. Interface to external RAM data lines.
AB4	DDR_DM[2]	DDR interface	Data Mask for Data Lines[23:16].
AB5	DDR_DQ[30]	DDR interface	Data Line. Interface to external RAM data lines.
AB6	DDR_DM[3]	DDR interface	Data Mask for Data Lines[31:25].
AB7	DDR_DQ[31]	DDR interface	Data Line. Interface to external RAM data lines.

Pin No.	Mnemonic	Type	Description
AB8	DDR_DQ[29]	DDR interface	Data Line. Interface to external RAM data lines.
AB9	DDR_A[12]	DDR interface	Address Line. Interface to external RAM address lines.
AB10	DDR_A[6]	DDR interface	Address Line. Interface to external RAM address lines.
AB11	DDR_A[3]	DDR interface	Address Line. Interface to external RAM address lines.
AB12	DDR_A[0]	DDR interface	Address Line. Interface to external RAM address lines.
AB13	DDR_BA[0]	DDR interface	Bank Address Line. Indicates which data bank to write/read from.
AB14	DDR_RAS	DDR interface	Row Address Strobe for DDR Memory.
AB15	DDR_CKE	DDR interface	Clock Enable for External DDR Memory.
AB16	DDR_DQ[12]	DDR interface	Data Line. Interface to external RAM data lines.
AB17	DDR_DQS[1]	DDR interface	Data Strobe for DDR Data Bytes[15:8].
AB18	DDR_DQ[8]	DDR interface	Data Line. Interface to external RAM data lines.
AB19	DDR_DQ[13]	DDR interface	Data Line. Interface to external RAM data lines.
AB20	DDR_DQ[0]	DDR interface	Data Line. Interface to external RAM data lines.
AB21	DDR_DQ[5]	DDR interface	Data Line. Interface to external RAM data lines.
AB22	DDR_DQS[0]	DDR interface	Data Strobe for DDR Data Bytes[7:0].
AB23	DDR_DQ[4]	DDR interface	Data Line. Interface to external RAM data lines.
AC1	DDR_DQ[16]	DDR interface	Data Line. Interface to external RAM data lines.
AC2	DDR_DQ[20]	DDR interface	Data Line. Interface to external RAM data lines.
AC3	DDR_DQ[22]	DDR interface	Data Line. Interface to external RAM data lines.
AC4	DDR_DQ[25]	DDR interface	Data Line. Interface to external RAM data lines.
AC5	DDR_DQ[28]	DDR interface	Data Line. Interface to external RAM data lines.
AC6	DDR_DQ[27]	DDR interface	Data Line. Interface to external RAM data lines.
AC7	DDR_DQ[24]	DDR interface	Data Line. Interface to external RAM data lines.
AC8	DDR_A[9]	DDR interface	Address Line. Interface to external RAM address lines.
AC9	DDR_A[5]	DDR interface	Address Line. Interface to external RAM address lines.
AC10	DDR_A[7]	DDR interface	Address Line. Interface to external RAM address lines.
AC11	DDR_A[1]	DDR interface	Address Line. Interface to external RAM address lines.
AC12	DDR_A[10]	DDR interface	Address Line. Interface to external RAM address lines.
AC13	DDR_BA[1]	DDR interface	Bank Address Line. Indicates which data bank to write/read from.
AC14	DDR_BA[2]	DDR interface	Bank Address Line. Indicates which data bank to write/read from.
AC15	DDR_WE	DDR interface	Write Enable Signal for DDR RAM.
AC16	DDR_VREF	DDR interface ¹	Reference Voltage for DDR RAM.
AC17	DDR_DQ[10]	DDR interface	Data Line. Interface to external RAM data lines.
AC18	DDR_DQS[1]	DDR interface	Data Strobe for DDR Data Byte[15:8].
AC19	DDR_DQ[15]	DDR interface	Data Line. Interface to external RAM data lines.
AC20	DDR_DQ[7]	DDR interface	Data Line. Interface to external RAM data lines.
AC21	DDR_DQ[2]	DDR interface	Data Line. Interface to external RAM data lines.
AC22	DDR_DQS[0]	DDR interface	Data Strobe for DDR Data Byte[7:0].
AC23	DDR_DQ[1]	DDR interface	Data Line. Interface to external RAM data lines.

¹ Sensitive node. Careful layout is important. The associated circuitry should be kept as close as possible to the ADV8003.

2. FL DISPLAY

FLD(17-BT-40GINK) (SPK/SMPS : Z6801)



PIN CONNECTION

PIN CONNECTION

PIN NO.	62	61	60	59	58	57	56	55	54	53	52
CONNECTION	F2	NX	PN	PN	GG	PG	GV	VD	OS	IRMS	CC

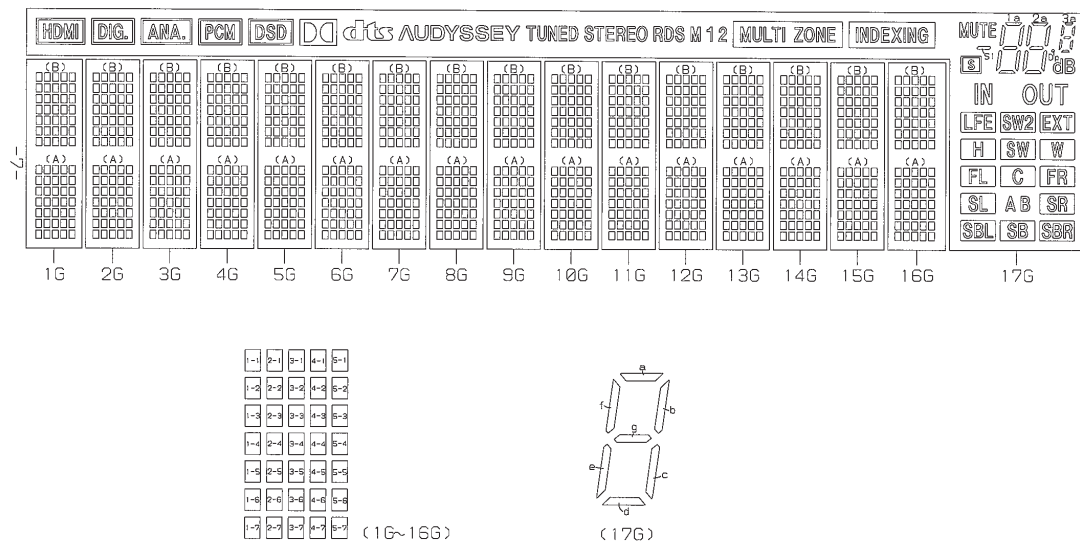
[illegible]

- ```

NOTE 1) F1,F2 --- Filament
 2) NP ----- No pin
 3) DL ----- Datum Line
 4) NX ----- No extend pin
 5) 17G ----- Grid
 6) Q17G ----- Driver Output Port
 7) LGND ----- Logic GND pin
 8) PGND ----- Power GND pin
 9) VH ----- High Voltage Supply pin
 10) VDD ----- Logic Voltage Supply pin
 11) OSC ----- Pin for self-oscillation
 12) RESET ---- Reset Input
 13) CS ----- Chip Select Input pin
 14) CP ----- Shift Register Clock
 15) DA ----- Serial Data Input
 16) TSA,B --- Test pin
 17) Solder composition is Sn-3Ag-0.5Cu.
 18) Field of vision is a minimum of 17.6° from the lower side.

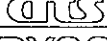
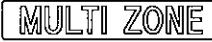
```

## GRID ASSIGNMENT



# ANODE CONNECTION

|      | 1G~16G | 17G                                                                                 |
|------|--------|-------------------------------------------------------------------------------------|
| D0A  | 1-1A   | -                                                                                   |
| D1A  | 2-1A   | -                                                                                   |
| D2A  | 3-1A   | -                                                                                   |
| D3A  | 4-1A   | -                                                                                   |
| D4A  | 5-1A   | -                                                                                   |
| D5A  | 1-2A   | -                                                                                   |
| D6A  | 2-2A   | -                                                                                   |
| D7A  | 3-2A   | -                                                                                   |
| D8A  | 4-2A   | -                                                                                   |
| D9A  | 5-2A   | -                                                                                   |
| D10A | 1-3A   | dB                                                                                  |
| D11A | 2-3A   | Dp                                                                                  |
| D12A | 3-3A   | 3d                                                                                  |
| D13A | 4-3A   | 3e                                                                                  |
| D14A | 5-3A   | 3c                                                                                  |
| D15A | 1-4A   | 3g                                                                                  |
| D16A | 2-4A   | 3f                                                                                  |
| D17A | 3-4A   | 3b                                                                                  |
| D18A | 4-4A   | 3a                                                                                  |
| D19A | 5-4A   | 2d                                                                                  |
| D20A | 1-5A   | 2e                                                                                  |
| D21A | 2-5A   | 2c                                                                                  |
| D22A | 3-5A   | 2g                                                                                  |
| D23A | 4-5A   | 2f                                                                                  |
| D24A | 5-5A   | 2b                                                                                  |
| D25A | 1-6A   | 2a                                                                                  |
| D26A | 2-6A   | 1d                                                                                  |
| D27A | 3-6A   | 1e                                                                                  |
| D28A | 4-6A   | 1c                                                                                  |
| D29A | 5-6A   | 1g                                                                                  |
| D30A | 1-7A   | 1f                                                                                  |
| D31A | 2-7A   | 1b                                                                                  |
| D32A | 3-7A   | 1a                                                                                  |
| D33A | 4-7A   | S1                                                                                  |
| D34A | 5-7A   |  |

|      | 1G~16G | 17G                                                                                   |
|------|--------|---------------------------------------------------------------------------------------|
| D0B  | 1-1B   |    |
| D1B  | 2-1B   |    |
| D2B  | 3-1B   |    |
| D3B  | 4-1B   |    |
| D4B  | 5-1B   |    |
| D5B  | 1-2B   |    |
| D6B  | 2-2B   |    |
| D7B  | 3-2B   | AUDYSSEY                                                                              |
| D8B  | 4-2B   | TUNED                                                                                 |
| D9B  | 5-2B   | STEREO                                                                                |
| D10B | 1-3B   | RDS                                                                                   |
| D11B | 2-3B   | M                                                                                     |
| D12B | 3-3B   | 1                                                                                     |
| D13B | 4-3B   | 2                                                                                     |
| D14B | 5-3B   |    |
| D15B | 1-4B   |   |
| D16B | 2-4B   | MUTE                                                                                  |
| D17B | 3-4B   | IN                                                                                    |
| D18B | 4-4B   | OUT                                                                                   |
| D19B | 5-4B   |  |
| D20B | 1-5B   |  |
| D21B | 2-5B   |  |
| D22B | 3-5B   |  |
| D23B | 4-5B   |  |
| D24B | 5-5B   |  |
| D25B | 1-6B   |  |
| D26B | 2-6B   |  |
| D27B | 3-6B   |  |
| D28B | 4-6B   |  |
| D29B | 5-6B   | A                                                                                     |
| D30B | 1-7B   | B                                                                                     |
| D31B | 2-7B   |  |
| D32B | 3-7B   |  |
| D33B | 4-7B   |  |
| D34B | 5-7B   |  |

## PARTS LIST OF P.W.B. UNIT

\*Parts indicated by "nsp" on this table cannot be supplied.

\*The parts listed below are only for maintenance. Therefore they might differ from the parts used in the unit in appearances or dimensions.

Note: The symbols in the column "Remarks" indicate the following destinations.

U : U.S.A. & Canada model

N : Europe model

K : China model

F : Japan model

### XLR/SMPS UNIT ASSY

| Ref. No.                    | Part No.      | Part Name                    | Remarks | Q'ty | New |
|-----------------------------|---------------|------------------------------|---------|------|-----|
| <b>SEMICONDUCTORS GROUP</b> |               |                              |         |      |     |
| D0101,0102                  | 203050021504S | 1N4007                       |         | 1    |     |
| D0103                       | 00D2760683901 | UDZS5.6B-TE17 +C             | U       | 1    |     |
| D0103                       | 00D2760683972 | UDZS13B-TE17 +C              | N,K     | 1    |     |
| D0103                       | 00D2760683930 | UDZS5.1B-TE17 +C             | F       | 1    |     |
| D0104                       | 203010001007S | D3SB60                       |         | 1    |     |
| D0105                       | 20205004900AS | ZENER DIODE 39V_ZJ39B 1/2W   |         | 1    |     |
| D0106                       | 20205002710AS | P6KE120A(PANJIT)             | U,F     | 1    |     |
| D0107                       | 20205004900AS | ZENER DIODE 39V_ZJ39B 1/2W   |         | 1    |     |
| D0108                       | 20305002730AS | 1N4003(HOMI)                 |         | 1    |     |
| D0109                       | 00D2760848908 | UDZS22B-TE17                 |         | 1    |     |
| D0111                       | 20205004710AS | P6KE150A(PANJIT)             |         | 1    |     |
| D0112                       | 203050021504S | 1N4007                       |         | 1    |     |
| D0113                       | 20305002730AS | 1N4003(HOMI)                 |         | 1    |     |
| D0114,0115                  | 20305003200AS | SR3060PT                     |         | 1    |     |
| D0116                       | 20105001130AS | 1SS133(HOMI)                 |         | 1    |     |
| D0117                       | 212050010508S | KIA2431AP                    |         | 1    |     |
| D0118                       | 20205004800AS | ZENER DIODE 5.6V_ZJ5.6B 1/2W |         | 1    |     |
| D0201,0202                  | 20305003100AS | D15XBN20                     |         | 1    |     |
| D0203,0204                  | 00D2760683972 | UDZS13B-TE17 +C              |         | 1    |     |
| D0205,0206                  | 00D2760798948 | UDZS8.2B-TE17                |         | 1    |     |
| D0501                       | 00D2760794900 | KDS160-RTK/P                 |         | 1    |     |
| D0504                       | 00MHI20002210 | SIR-34ST3F                   |         | 1    |     |
| D0505,0506                  | 00D2760794900 | KDS160-RTK/P                 |         | 1    |     |
| Q0101                       | 22985001050AS | SSM3K7002BF                  |         | 1    |     |
| Q0102                       | 00D2730464901 | KTC3875S-GR-RTK/P            |         | 1    |     |
| Q0201                       | 00D2730464901 | KTC3875S-GR-RTK/P            |         | 1    |     |
| Q0202                       | 00D2710312905 | KTA1504S-GR-RTK/P            |         | 1    |     |
| Q0203                       | 00D2740198005 | KTD998-O-U/P                 |         | 1    |     |
| Q0204                       | 00D2720158007 | KTB778-O-U/P                 |         | 1    |     |
| Q0205                       | 00D2730464901 | KTC3875S-GR-RTK/P            |         | 1    |     |
| Q0206                       | 00D2710312905 | KTA1504S-GR-RTK/P            |         | 1    |     |
| Q0207                       | 00D2740198005 | KTD998-O-U/P                 |         | 1    |     |
| Q0208                       | 00D2720158007 | KTB778-O-U/P                 |         | 1    |     |
| Q0501                       | 21585001550AS | KRA105S-RTK/P(2.2K-47K)      |         | 1    |     |
| Q0502                       | 00D2690192902 | KRC102S-RTK/P (10K-10K)      |         | 1    |     |
| Q0503,0504                  | 00D2690184907 | KRA102S-RTK/P (10K-10K)      |         | 1    |     |
| Q0506                       | 00D2690184907 | KRA102S-RTK/P (10K-10K)      |         | 1    |     |
| Q0507                       | 00D2690192902 | KRC102S-RTK/P (10K-10K)      |         | 1    |     |
| Q0508                       | 00D2730464901 | KTC3875S-GR-RTK/P            |         | 1    |     |
| Q0509                       | 00D2690192902 | KRC102S-RTK/P (10K-10K)      |         | 1    |     |
| Q0510                       | 00D2690184907 | KRA102S-RTK/P (10K-10K)      |         | 1    |     |
| U0501                       | 23181012550AS | NJM2887DL3-TE2               |         | 1    |     |
| U0502                       | 262010007707S | R94EV1A                      |         | 1    |     |
| U0503                       | 00D2630995004 | NJM4556AD +T                 |         | 1    |     |
| U0504                       | 00D2623555901 | SA5532ADR                    |         | 1    |     |
| U0505                       | 235810050503S | NJM4565M                     |         | 1    |     |
| U0506,0507                  | 00D2623555901 | SA5532ADR                    |         | 1    |     |
| <b>RESISTORS GROUP</b>      |               |                              |         |      |     |
| R0101-0103                  | 00D2412405990 | RD14B2E225JT(5)              |         | 1    |     |
| R0104-0106                  | 00D2412405974 | RD14B2E105JT(5)              |         | 1    |     |

| Ref. No.   | Part No.      | Part Name                 | Remarks | Q'ty | New |
|------------|---------------|---------------------------|---------|------|-----|
| R0107      | 00D2412404959 | RD14B2E334JT(5)           |         | 1    |     |
| R0108      | nsp           | RM73B--105JT +1608        |         | 1    |     |
| R0109      | nsp           | RM73B--102JT +1608        |         | 1    |     |
| R0110      | nsp           | RM73B--822JT +1608        |         | 1    |     |
| R0111,0112 | 00D2412405990 | RD14B2E225JT(5)           | U,F     | 1    |     |
| R0113      | 00D2412405974 | RD14B2E105JT(5)           | U,F     | 1    |     |
| R0114      | nsp           | RM73B--274JT +1608        | U,F     | 1    |     |
| R0114      | nsp           | RM73B--563JT +1608        | N,K     | 1    |     |
| R0116      | 00D2412393947 | RD14B2E6R8JT(5)           |         | 1    |     |
| R0119      | nsp           | RM73B--103JT +1608        |         | 1    |     |
| R0120      | nsp           | RM73B--152JT +1608        |         | 1    |     |
| R0122      | 00D2412395961 | RD14B2E560JT(5)           |         | 1    |     |
| R0123      | nsp           | RM73B--332JT +1608        |         | 1    |     |
| R0124      | nsp           | RM73B--562JT +1608        |         | 1    |     |
| R0125      | nsp           | RM73B--223DT(1608)        |         | 1    |     |
| R0126      | 00D2412405974 | RD14B2E105JT(5)           |         | 1    |     |
| R0127      | nsp           | RM73B--682DT(1608)        |         | 1    |     |
| R0202,0203 | nsp           | RM73B--102JT +1608        |         | 1    |     |
| R0206,0207 | nsp           | RM73B--102JT +1608        |         | 1    |     |
| R0209-0212 | nsp           | RM73B--102JT +1608        |         | 1    |     |
| R0301-0312 | nsp           | RM73B--101JT +1608        |         | 1    |     |
| R0313-0324 | nsp           | RM73B--474JT +1608        |         | 1    |     |
| R0325-0336 | nsp           | RM73B--0R0KT +1608        |         | 1    |     |
| R0337-0350 | nsp           | RM73B--101JT +1608        |         | 1    |     |
| R0351-0364 | nsp           | RM73B--474JT +1608        |         | 1    |     |
| R0365-0378 | nsp           | RM73B--0R0KT +1608        |         | 1    |     |
| R0501-0504 | nsp           | RM73B--222JT +1608        |         | 1    |     |
| R0505-0508 | nsp           | RM73B--472JT (1608) +1608 |         | 1    |     |
| R0509-0514 | nsp           | RM73B--101JT +1608        |         | 1    |     |
| R0515,0516 | nsp           | RM73B--222JT +1608        |         | 1    |     |
| R0517,0518 | nsp           | RM73B--102JT +1608        |         | 1    |     |
| R0519      | nsp           | RM73B--121JT +1608        |         | 1    |     |
| R0520      | nsp           | RM73B--472JT (1608) +1608 |         | 1    |     |
| R0521-0524 | nsp           | RM73B--224JT +1608        |         | 1    |     |
| R0525-0528 | nsp           | RM73B--472JT (1608) +1608 |         | 1    |     |
| R0529,0530 | nsp           | RM73B--103JT +1608        |         | 1    |     |
| R0531,0532 | nsp           | RM73B--104JT +1608        |         | 1    |     |
| R0533      | nsp           | RM73B--101JT +1608        |         | 1    |     |
| R0534-0536 | nsp           | RM73B--222JT +1608        |         | 1    |     |
| R0537      | nsp           | RM73B--101JT +1608        |         | 1    |     |
| R0538      | nsp           | RM73B--222JT +1608        |         | 1    |     |
| R0539,0540 | nsp           | RM73B--101JT +1608        |         | 1    |     |
| R0541      | nsp           | RM73B--333JT +1608        |         | 1    |     |
| R0542      | nsp           | RM73B--101JT +1608        |         | 1    |     |
| R0544,0545 | nsp           | RM73B--101JT +1608        |         | 1    |     |
| R0546      | nsp           | RM73B--104JT +1608        |         | 1    |     |
| R0547      | nsp           | RM73B--562JT +1608        |         | 1    |     |
| R0548      | nsp           | RM73B--101JT +1608        |         | 1    |     |
| R0549,0550 | nsp           | RM73B--103JT +1608        |         | 1    |     |
| R0551-0558 | nsp           | RM73B--222JT +1608        |         | 1    |     |
| R0559      | nsp           | RM73B--154JT +1608        |         | 1    |     |
| R0561      | nsp           | RM73B--472JT (1608) +1608 |         | 1    |     |
| R0562,0563 | nsp           | RM73B--103JT +1608        |         | 1    |     |
| R0564-0566 | nsp           | RM73B--472JT (1608) +1608 |         | 1    |     |
| R0569,0570 | nsp           | RM73B--563JT +1608        |         | 1    |     |
| R0573,0574 | nsp           | RM73B--563JT +1608        |         | 1    |     |
| R0575      | nsp           | RM73B--473JT +1608        |         | 1    |     |
| R0576      | nsp           | RM73B--221JT +1608        |         | 1    |     |
| R0577      | nsp           | RM73B--183JT +1608        |         | 1    |     |
| R0578      | nsp           | RM73B--332JT +1608        |         | 1    |     |

| Ref. No.                | Part No.      | Part Name                             | Remarks | Q'ty | New |
|-------------------------|---------------|---------------------------------------|---------|------|-----|
| R0579                   | nsp           | RM73B--221JT +1608                    |         | 1    |     |
| R0580                   | nsp           | RM73B--471JT +1608                    |         | 1    |     |
| R0581,0582              | nsp           | RM73B--104JT +1608                    |         | 1    |     |
| R0583                   | nsp           | RM73B--471JT +1608                    |         | 1    |     |
| R0584                   | nsp           | RM73B--101JT +1608                    |         | 1    |     |
| R0585,0586              | nsp           | RM73B--564JT +1608                    |         | 1    |     |
| R0587,0588              | nsp           | RM73B--101JT +1608                    |         | 1    |     |
| R0589,0590              | nsp           | RM73B--564JT +1608                    |         | 1    |     |
| R0591                   | nsp           | RM73B--101JT +1608                    |         | 1    |     |
| R0592                   | nsp           | RM73B--470JT +1608                    |         | 1    |     |
| R0593,0594              | nsp           | RM73B--102JT +1608                    |         | 1    |     |
| R0595                   | nsp           | RM73B--470JT +1608                    |         | 1    |     |
| R0596-0599              | nsp           | RM73B--101JT +1608                    |         | 1    |     |
| R0600,0601              | nsp           | RM73B--684JT +1608                    |         | 1    |     |
| R0602-0604              | nsp           | RM73B--0R0KT +1608                    |         | 1    |     |
| R0605,0606              | nsp           | RM73B--684JT +1608                    |         | 1    |     |
| R0607                   | nsp           | RM73B--0R0KT +1608                    |         | 1    |     |
|                         |               |                                       |         |      |     |
| <b>CAPACITORS GROUP</b> |               |                                       |         |      |     |
| ⚠ C0101,0102            | 00D2538029713 | CK45F2EAC471KC(KX)                    |         | 1    |     |
| ⚠ C0103                 | 00D2538022707 | CK45F2EAC103MC                        |         | 1    |     |
| ⚠ C0104,0105            | 00D2568039003 | CF99--2EAC104K(LEMX)                  |         | 1    |     |
| C0108                   | nsp           | CK73B1E473KT +1608                    | N,K     | 1    |     |
| C0109                   | nsp           | CK73B1E104KT +1608                    |         | 1    |     |
| ⚠ C0110,0111            | 00D2538022707 | CK45F2EAC103MC                        |         | 1    |     |
| C0112                   | 13405021210AS | CE04W2G121MC(KXG)                     |         | 1    |     |
| C0114                   | 134050107502S | CE04W1E470MT(NXA)                     |         | 1    |     |
| C0115                   | 00MDK9610430Y | C1608X7R1H104K                        |         | 1    |     |
| C0116                   | 13305015020AS | CQ93M3A103H(PHF)                      |         | 1    |     |
| C0118                   | 134050106509S | CE04W1H100MT(NXA)                     |         | 1    |     |
| ⚠ C0119                 | 00D2538029700 | CK45F2EAC222MC (KX)                   |         | 1    |     |
| C0120                   | nsp           | CK73B1E104KT +1608                    |         | 1    |     |
| C0123                   | nsp           | CK73B0J475KT +1608                    |         | 1    |     |
| C0124-0126              | 134050105209S | CE04W0J562MC(NXA)                     |         | 1    |     |
| C0127                   | nsp           | CK73B1H102KT +1608                    |         | 1    |     |
| C0128                   | nsp           | CK73B1E104KT +1608                    |         | 1    |     |
| C0129                   | 13405012640AS | CE04W0J471MT(KR3)                     |         | 1    |     |
| C0201,0202              | 133050090557S | CQ93P2A104JT(PPF)                     |         | 1    |     |
| C0205,0206              | 13405017200AS | CE04W1V472MC                          |         | 1    |     |
| C0209,0210              | 13405017200AS | CE04W1V472MC                          |         | 1    |     |
| C0215,0216              | 00MOA477025R6 | ROA-25V 471M -I6#PE - S13 (470UF 25V) |         | 1    |     |
| C0219,0220              | 00MOF55102581 | 1000PF 100V FNS                       |         | 1    |     |
| C0221,0222              | 00MOA477025R6 | ROA-25V 471M -I6#PE - S13 (470UF 25V) |         | 1    |     |
| C0225,0226              | 00MOF55102581 | 1000PF 100V FNS                       |         | 1    |     |
| C0227,0228              | 00MOA477025R6 | ROA-25V 471M -I6#PE - S13 (470UF 25V) |         | 1    |     |
| C0233,0234              | 00MOF55102581 | 1000PF 100V FNS                       |         | 1    |     |
| C0235,0236              | 00MOA477025R6 | ROA-25V 471M -I6#PE - S13 (470UF 25V) |         | 1    |     |
| C0241,0242              | 00MOF55102581 | 1000PF 100V FNS                       |         | 1    |     |
| C0253,0254              | 00MBF68400016 | ! 0.68UF/4.7OHM                       |         | 1    |     |
| C0301-0312              | nsp           | CC73CH1H221JT +1608                   |         | 1    |     |
| C0314                   | nsp           | CC73CH1H272JT +1608                   |         | 1    |     |
| C0316                   | nsp           | CC73CH1H272JT +1608                   |         | 1    |     |
| C0318                   | nsp           | CC73CH1H272JT +1608                   |         | 1    |     |
| C0320                   | nsp           | CC73CH1H272JT +1608                   |         | 1    |     |
| C0322                   | nsp           | CC73CH1H272JT +1608                   |         | 1    |     |
| C0324                   | nsp           | CC73CH1H272JT +1608                   |         | 1    |     |
| C0325-0338              | nsp           | CC73CH1H221JT +1608                   |         | 1    |     |
| C0340                   | nsp           | CC73CH1H272JT +1608                   |         | 1    |     |
| C0342                   | nsp           | CC73CH1H272JT +1608                   |         | 1    |     |
| C0344                   | nsp           | CC73CH1H272JT +1608                   |         | 1    |     |

| Ref. No.                  | Part No.      | Part Name                    | Remarks | Q'ty | New |
|---------------------------|---------------|------------------------------|---------|------|-----|
| C0346                     | nsp           | CC73CH1H272JT +1608          |         | 1    |     |
| C0348                     | nsp           | CC73CH1H272JT +1608          |         | 1    |     |
| C0350                     | nsp           | CC73CH1H272JT +1608          |         | 1    |     |
| C0352                     | nsp           | CC73CH1H272JT +1608          |         | 1    |     |
| C0501,0502                | 00D2544573981 | CE04W1H100MT(RA3)            |         | 1    |     |
| C0503                     | nsp           | CC73CH1H221JT +1608          |         | 1    |     |
| C0504,0505                | 00D2544577945 | CE04W1C101MT(RA3)            |         | 1    |     |
| C0506                     | nsp           | CC73CH1H221JT +1608          |         | 1    |     |
| C0507,0508                | 00D2544573981 | CE04W1H100MT(RA3)            |         | 1    |     |
| C0509,0510                | nsp           | CK73B1E104KT +1608           |         | 1    |     |
| C0511,0512                | 00D2544574919 | CE04W1H470MT(RA3)            |         | 1    |     |
| C0513,0514                | 13405014840AS | CE04W1J100MT(KR3)            |         | 1    |     |
| C0515                     | 00D2544574919 | CE04W1H470MT(RA3)            |         | 1    |     |
| C0516,0517                | nsp           | CC73CH1H101JT +1608          |         | 1    |     |
| C0518                     | 00D2544574919 | CE04W1H470MT(RA3)            |         | 1    |     |
| C0519,0520                | nsp           | CC73CH1H101JT +1608          |         | 1    |     |
| C0521                     | nsp           | CK73B1A105KT +1608           |         | 1    |     |
| C0522,0523                | nsp           | CK73B1E104KT +1608           |         | 1    |     |
| C0528-0530                | nsp           | CK73B0J475KT +1608           |         | 1    |     |
| C0531                     | 13405014840AS | CE04W1J100MT(KR3)            |         | 1    |     |
| C0533                     | nsp           | CK73B1E104KT +1608           |         | 1    |     |
| C0534                     | 13405014840AS | CE04W1J100MT(KR3)            |         | 1    |     |
| C0537                     | nsp           | CK73B1E104KT +1608           |         | 1    |     |
| C0538-0540                | 13405014840AS | CE04W1J100MT(KR3)            |         | 1    |     |
| C0541-0544                | nsp           | CC73CH1H101JT +1608          |         | 1    |     |
| C0545,0546                | nsp           | CC73CH1H471JT +1608          |         | 1    |     |
| C0547-0549                | 00D2544574919 | CE04W1H470MT(RA3)            |         | 1    |     |
| C0550,0551                | nsp           | CC73CH1H221JT +1608          |         | 1    |     |
| C0552                     | 00D2544574919 | CE04W1H470MT(RA3)            |         | 1    |     |
| C0553,0554                | nsp           | CC73CH1H221JT +1608          |         | 1    |     |
| C0556-0559                | nsp           | CK73B1E104KT +1608           |         | 1    |     |
| C0560-0563                | nsp           | CC73CH1H221JT +1608          |         | 1    |     |
| C0564,0565                | nsp           | CC73CH1H102JT +1608          |         | 1    |     |
| <b>OTHERS PARTS GROUP</b> |               |                              |         |      |     |
| B0101,0102                | nsp           | M3 SCREW TERMINAL            |         | 1    |     |
| B0103                     | 00MYL01010241 | GND TERMINAL FOR PCB         |         | 1    |     |
| B0201,0202                | 00MYL01010241 | GND TERMINAL FOR PCB         |         | 1    |     |
| ⚠ F0100                   | 00D2061087028 | FUSE (ET2A)                  |         | 1    |     |
| ⚠ F0102                   | 00MFS20200201 | # T2.0A 250V TR5             | U,F     | 1    |     |
| ⚠ F0102                   | 00MFS20315201 | # FUSE 3.15A 250V SEMKO VDE  | N,K     | 1    |     |
| ⚠ F0201,0202              | 00MFS20200201 | # T2.0A 250V TR5             |         | 1    |     |
| ⚠ F0203,0204              | 00MFS20250201 | # T2.5A/250V TR5 NO.19372 (T |         | 1    |     |
| H0101,0102                | nsp           | FUSE CLIP(TAPE)              |         | 1    |     |
| ⚠ K0101                   | 64105002280AS | AC INLET(R-30190)            |         | 1    |     |
| K0321-0333                | 64301021210AS | XLR CONNECTOR (XLR-21)       |         | 1    |     |
| K0501                     | 643010086002S | MINI JACK(PJ-308-02)         |         | 1    |     |
| K0502                     | 643010084006S | 2P PINJACK(RCA-206B)-NI-O    |         | 1    |     |
| K0504                     | 64301021100AS | XLR CONNECTOR (XLR-22)       |         | 1    |     |
| K0506                     | 64301021100AS | XLR CONNECTOR (XLR-22)       |         | 1    |     |
| ⚠ L0101                   | 11101004400AS | L.FILTER(LF2628NP-R273)      |         | 1    |     |
| L0102-0105                | 00D2350049900 | BEADS INDUCTOR TAPE          |         | 1    |     |
| N0101                     | 00MYP04000760 | CONNECTOR 2P B3P-VH          |         | 1    |     |
| N0102                     | 00MYP06010450 | B5B-EH                       |         | 1    |     |
| N0201                     | 00MYP06010950 | B5P-VH                       |         | 1    |     |
| N0202                     | 00MYP06010450 | B5B-EH                       |         | 1    |     |
| N0203                     | 00MYP06003830 | B3B-EH 3P                    |         | 1    |     |
| N0204                     | 00MYJ06006230 | B3B-PH-K-S (LF)(SN)          |         | 1    |     |
| N0301                     | 00MYJ06006350 | B15B-PH-K-S (LF)(SN)         |         | 1    |     |
| N0302                     | 00MYJ06006360 | B16B-PH-K-S (LF)(SN)         |         | 1    |     |



|   | Ref. No.   | Part No.      | Part Name                       | Remarks | Q'ty | New |
|---|------------|---------------|---------------------------------|---------|------|-----|
|   | N0303      | 00MYJ06006300 | B10B-PH-K-S (LF)(SN)            |         | 1    |     |
|   | N0304,0305 | 645010056014S | 13P PLUG(C125Z1)                |         | 1    |     |
|   | N0306,0307 | 645010057017S | 13P SOCKET(C125Z2)              |         | 1    |     |
|   | N0308,0309 | 645010056014S | 13P PLUG(C125Z1)                |         | 1    |     |
|   | N0310,0311 | 645010057017S | 13P SOCKET(C125Z2)              |         | 1    |     |
|   | N0501      | 00MYJ06006230 | B3B-PH-K-S (LF)(SN)             |         | 1    |     |
|   | N0502      | 00MYJ06006340 | B14B-PH-K-S (LF)(SN)            |         | 1    |     |
|   | N0503      | 00D2050736005 | 33P FFC BASE                    |         | 1    |     |
|   | N0504      | 00MYJ06006270 | B7B-PH-K-S (LF)(SN)             |         | 1    |     |
|   | N0505      | 00MYJ06006330 | B13B-PH-K-S (LF)(SN)            |         | 1    |     |
|   | N0506      | 645010056014S | 13P PLUG(C125Z1)                |         | 1    |     |
|   | N0507      | 645010057017S | 13P SOCKET(C125Z2)              |         | 1    |     |
|   | N0508      | 643010089001S | MX JACK(DIN-901B)               |         | 1    |     |
|   | N0509      | 645010056014S | 13P PLUG(C125Z1)                |         | 1    |     |
|   | N0510      | 645010057017S | 13P SOCKET(C125Z2)              |         | 1    |     |
| ⚠ | S0101      | 00D2140241002 | RELAY DL1SU TV-8                |         | 1    |     |
|   | S0501      | 682010021000S | RELAY(BC3-12)                   |         | 1    |     |
| ⚠ | T0103      | 10201002401AS | SW TRANS(979C/A)                |         | 1    | ⚠   |
| ⚠ | U0101      | 23901007520AS | TOP256YN                        |         | 1    |     |
| ⚠ | U0102      | 00D2623047008 | PC123Y22                        |         | 1    |     |
|   | Z0102      | 00D4170476007 | RADIATOR                        |         | 1    |     |
|   | Z0103      | 00M51100308U9 | SCREW                           |         | 1    |     |
|   | Z0104,0105 | 00D4170476023 | RADIATOR                        |         | 1    |     |
|   | Z0106,0107 | 00M51100308U9 | SCREW                           |         | 1    |     |
|   | Z0302-0303 | nsp           | STYLE PIN                       |         | 1    |     |
|   | Z0501      | 445310117000M | SHIELD CASE FLASHER SR7005 A332 |         | 1    |     |
|   |            |               |                                 |         |      |     |

## FRONT UNIT ASSY

|                             | Ref. No.   | Part No.      | Part Name                      | Remarks | Q'ty | New |
|-----------------------------|------------|---------------|--------------------------------|---------|------|-----|
| <b>SEMICONDUCTORS GROUP</b> |            |               |                                |         |      |     |
|                             | D1001      | 263010045504S | BL-BVT201G                     |         | 1    |     |
|                             | D1002,1003 | 20305002730AS | 1N4003(HOMI)                   |         | 1    |     |
|                             | D1004      | 00D2760798948 | UDZS8.2B-TE17                  |         | 1    |     |
|                             | D1016      | 00D2760848908 | UDZS22B-TE17                   |         | 1    |     |
|                             | D1017      | 00D2760798935 | UDZS20B-TE17                   |         | 1    |     |
|                             | D1026      | 00D2760683930 | UDZS5.1B-TE17 +C               |         | 1    |     |
|                             | D1027,1028 | 263010046507S | BL-BUF4V5K-1-AV-FP3.5-TBF19.5C |         | 1    |     |
|                             | D1029,1030 | 263010047500S | TOL-52CSBBCEA-B2               |         | 1    |     |
|                             | D1031,1032 | 00D2760683930 | UDZS5.1B-TE17 +C               |         | 1    |     |
|                             | D1033,1034 | 263010047500S | TOL-52CSBBCEA-B2               |         | 1    |     |
|                             | D1040-1042 | 20305002730AS | 1N4003(HOMI)                   |         | 1    |     |
|                             | Q1001      | 00D2690192902 | KRC102S-RTK/P (10K-10K)        |         | 1    |     |
|                             | Q1004      | 00D2690192902 | KRC102S-RTK/P (10K-10K)        |         | 1    |     |
|                             | Q1005      | 21385001950AS | 2SC5810                        |         | 1    |     |
|                             | Q1006      | 00D2690192902 | KRC102S-RTK/P (10K-10K)        |         | 1    |     |
|                             | Q1008      | 00D2730464901 | KTC3875S-GR-RTK/P              |         | 1    |     |
|                             | Q1011      | 00D2690192902 | KRC102S-RTK/P (10K-10K)        |         | 1    |     |
|                             | Q1012      | 00D2710316901 | KTA1042D-Y-RTF/P               |         | 1    |     |
|                             | Q1014-1016 | 00D2690192902 | KRC102S-RTK/P (10K-10K)        |         | 1    |     |
|                             | Q1017      | 00D2690184907 | KRA102S-RTK/P (10K-10K)        |         | 1    |     |
|                             | U1002      | 23181012550AS | NJM2887DL3-TE2                 |         | 1    |     |
|                             | U1004      | 262010007707S | R94EV1A                        |         | 1    |     |

| Ref. No.               | Part No.      | Part Name                 | Remarks | Q'ty | New |
|------------------------|---------------|---------------------------|---------|------|-----|
| U1006,1007             | 235810050503S | NJM4565M                  |         | 1    |     |
|                        |               |                           |         |      |     |
| <b>RESISTORS GROUP</b> |               |                           |         |      |     |
| R1003                  | nsp           | RM73B--472JT (1608) +1608 |         | 1    |     |
| R1006                  | nsp           | RM73B--472JT (1608) +1608 |         | 1    |     |
| R1007                  | nsp           | RM73B--102JT +1608        |         | 1    |     |
| R1008                  | nsp           | RM73B--472JT (1608) +1608 |         | 1    |     |
| R1009,1010             | nsp           | RM73B--221JT +1608        |         | 1    |     |
| R1011                  | nsp           | RM73B--102JT +1608        |         | 1    |     |
| R1012                  | nsp           | RM73B--473JT +1608        |         | 1    |     |
| R1013                  | nsp           | RM73B--102JT +1608        |         | 1    |     |
| R1014                  | nsp           | RM73B--472JT (1608) +1608 |         | 1    |     |
| R1015                  | nsp           | RM73B--010KT +1608        |         | 1    |     |
| R1016                  | nsp           | RM73B--101JT +1608        |         | 1    |     |
| R1018                  | nsp           | RM73B--010KT +1608        |         | 1    |     |
| R1019                  | nsp           | RM73B--2R2KT +1608        |         | 1    |     |
| R1020                  | nsp           | RM73B--101JT +1608        |         | 1    |     |
| R1022                  | nsp           | RM73B--104JT +1608        |         | 1    |     |
| R1023                  | nsp           | RM73B--154JT +1608        |         | 1    |     |
| R1024                  | nsp           | RM73B--623JT +1608        |         | 1    |     |
| R1025                  | nsp           | RM73B--473JT +1608        |         | 1    |     |
| R1027                  | nsp           | RM73B--101JT +1608        |         | 1    |     |
| R1034                  | nsp           | RM73B--393JT +1608        |         | 1    |     |
| R1037                  | nsp           | RM73B--104JT +1608        |         | 1    |     |
| R1038                  | nsp           | RM73B--101JT +1608        |         | 1    |     |
| R1039-1042             | nsp           | RM73B--100JT +1608        |         | 1    |     |
| R1044                  | nsp           | RM73B--104JT +1608        |         | 1    |     |
| R1046                  | nsp           | RM73B--124JT +1608        |         | 1    |     |
| R1047                  | nsp           | RM73B--243JT +1608        |         | 1    |     |
| R1048                  | nsp           | RM73B--222JT +1608        |         | 1    |     |
| R1049-1051             | nsp           | RM73B--820JT +1608        |         | 1    |     |
| R1052                  | nsp           | RM73B--104JT +1608        |         | 1    |     |
| R1054                  | nsp           | RM73B--101JT +1608        |         | 1    |     |
| R1055                  | nsp           | RM73B--103JT +1608        |         | 1    |     |
| R1056                  | nsp           | RM73B--0R0KT +1608        |         | 1    |     |
| R1057                  | nsp           | RM73B--102JT +1608        |         | 1    |     |
| R1058                  | nsp           | RM73B--0R0KT +1608        |         | 1    |     |
| R1059-1063             | nsp           | RM73B--103JT +1608        |         | 1    |     |
| R1064                  | nsp           | RM73B--561JT +1608        |         | 1    |     |
| R1065                  | nsp           | RM73B--103JT +1608        |         | 1    |     |
| R1066-1068             | nsp           | RM73B--101JT +1608        |         | 1    |     |
| R1069                  | nsp           | RM73B--122JT +1608        |         | 1    |     |
| R1070                  | nsp           | RM73B--102JT +1608        |         | 1    |     |
| R1072                  | nsp           | RM73B--333JT +1608        |         | 1    |     |
| R1076                  | nsp           | RM73B--101JT +1608        |         | 1    |     |
| R1077                  | nsp           | RM73B--122JT +1608        |         | 1    |     |
| R1079-1081             | nsp           | RM73B--271JT +1608        |         | 1    |     |
| R1082                  | nsp           | RM73B--473JT +1608        |         | 1    |     |

| Ref. No.                | Part No.      | Part Name                 | Remarks | Q'ty | New |
|-------------------------|---------------|---------------------------|---------|------|-----|
| R1083                   | nsp           | RM73B--151JT +1608        |         | 1    |     |
| R1084,1085              | nsp           | RM73B--221JT +1608        |         | 1    |     |
| R1086                   | nsp           | RM73B--103JT +1608        |         | 1    |     |
| R1087                   | nsp           | RM73B--151JT +1608        |         | 1    |     |
| R1088,1089              | nsp           | RM73B--331JT (1608) +1608 |         | 1    |     |
| R1090                   | nsp           | RM73B--103JT +1608        |         | 1    |     |
| R1097,1098              | nsp           | RM73B--561JT +1608        |         | 1    |     |
| R1099,1100              | nsp           | RM73B--103JT +1608        |         | 1    |     |
| R1101                   | nsp           | RM73B--151JT +1608        |         | 1    |     |
| R1102,1103              | nsp           | RM73B--101JT +1608        |         | 1    |     |
| R1104                   | nsp           | RM73B--151JT +1608        |         | 1    |     |
| R1105                   | nsp           | RM73B--221JT +1608        |         | 1    |     |
| R1106                   | nsp           | RM73B--561JT +1608        |         | 1    |     |
| R1108                   | nsp           | RM73B--331JT (1608) +1608 |         | 1    |     |
| R1109                   | nsp           | RM73B--821JT +1608        |         | 1    |     |
| R1110,1111              | nsp           | RM73B--103JT +1608        |         | 1    |     |
| R1112,1113              | nsp           | RM73B--474JT +1608        |         | 1    |     |
| R1114,1115              | nsp           | RM73B--471JT +1608        |         | 1    |     |
| R1116                   | nsp           | RM73B--101JT +1608        |         | 1    |     |
| R1119-1122              | nsp           | RM73B--472JT (1608) +1608 |         | 1    |     |
| R1125                   | nsp           | RM73B--391JT +1608        |         | 1    |     |
| R1126                   | nsp           | RM73B--221JT +1608        |         | 1    |     |
| R1134,1135              | nsp           | RM73B--103JT +1608        |         | 1    |     |
| R1141                   | nsp           | RM73B--473JT +1608        |         | 1    |     |
|                         |               |                           |         |      |     |
| <b>CAPACITORS GROUP</b> |               |                           |         |      |     |
| C1001                   | nsp           | C1608X7R1H104K            |         | 1    |     |
| C1003-1005              | nsp           | C1608X7R1H104K            |         | 1    |     |
| C1006                   | 13405014840AS | CE04W1J100MT(KR3)         |         | 1    |     |
| C1007                   | 13405014940AS | CE04W1J101MT(KR3)         |         | 1    |     |
| C1008                   | nsp           | C1608X7R1H104K            |         | 1    |     |
| C1011,1012              | nsp           | C1608X7R1H104K            |         | 1    |     |
| C1014-1016              | nsp           | C1608X7R1H104K            |         | 1    |     |
| C1018                   | nsp           | CC73CH1H102JT +1608       |         | 1    |     |
| C1020                   | nsp           | C1608X7R1H104K            |         | 1    |     |
| C1022                   | nsp           | C1608X7R1H104K            |         | 1    |     |
| C1024                   | 13405014940AS | CE04W1J101MT(KR3)         |         | 1    |     |
| C1025,1026              | nsp           | CK73B1H222KT +1608        |         | 1    |     |
| C1027                   | nsp           | C1608X7R1H104K            |         | 1    |     |
| C1028                   | 13405014840AS | CE04W1J100MT(KR3)         |         | 1    |     |
| C1029,1030              | nsp           | C1608X7R1H104K            |         | 1    |     |
| C1031                   | nsp           | CC73CH1H102JT +1608       |         | 1    |     |
| C1033                   | nsp           | C1608X7R1H104K            |         | 1    |     |
| C1034                   | nsp           | CC73CH1H102JT +1608       |         | 1    |     |
| C1038                   | nsp           | CC73CH1H101JT +1608       |         | 1    |     |
| C1040                   | nsp           | CC73CH1H101JT +1608       |         | 1    |     |
| C1042                   | nsp           | CC73CH1H101JT +1608       |         | 1    |     |
| C1043                   | nsp           | C1608X7R1H104K            |         | 1    |     |

|                    | Ref. No.   | Part No.      | Part Name                      | Remarks | Q'ty | New |
|--------------------|------------|---------------|--------------------------------|---------|------|-----|
|                    | C1046,1047 | 13405014840AS | CE04W1J100MT(KR3)              |         | 1    |     |
|                    | C1048,1049 | nsp           | C1608X7R1H104K                 |         | 1    |     |
|                    | C1050      | nsp           | CC73CH1H101JT +1608            |         | 1    |     |
|                    | C1051,1052 | 13405014840AS | CE04W1J100MT(KR3)              |         | 1    |     |
|                    | C1053      | nsp           | CC73CH1H102JT +1608            |         | 1    |     |
|                    | C1055      | nsp           | CC73CH1H330JT +1608            |         | 1    |     |
|                    | C1056      | 13405014840AS | CE04W1J100MT(KR3)              |         | 1    |     |
|                    | C1058      | nsp           | CC73CH1H102JT +1608            |         | 1    |     |
|                    | C1059,1060 | 13405014840AS | CE04W1J100MT(KR3)              |         | 1    |     |
|                    | C1061      | nsp           | CC73CH1H102JT +1608            |         | 1    |     |
|                    | C1064,1065 | 13405014840AS | CE04W1J100MT(KR3)              |         | 1    |     |
|                    | C1066      | 13405012940AS | CE04W1C101MT(KR3)              |         | 1    |     |
|                    | C1067,1068 | 13405014840AS | CE04W1J100MT(KR3)              |         | 1    |     |
|                    | C1069,1070 | nsp           | CC73CH1H331JT +1608            |         | 1    |     |
|                    | C1072      | nsp           | C1608X7R1H104K                 |         | 1    |     |
|                    | C1073      | 13405014840AS | CE04W1J100MT(KR3)              |         | 1    |     |
|                    | C1075-1078 | nsp           | C1608X7R1H104K                 |         | 1    |     |
|                    | C1080,1081 | nsp           | C1608X7R1H104K                 |         | 1    |     |
|                    | C1086,1087 | nsp           | C1608X7R1H104K                 |         | 1    |     |
|                    | C1090,1091 | 13405014840AS | CE04W1J100MT(KR3)              |         | 1    |     |
|                    | C1095-1097 | 13405014840AS | CE04W1J100MT(KR3)              |         | 1    |     |
|                    | C1098      | nsp           | CC73CH1H102JT +1608            |         | 1    |     |
|                    | C1099-1101 | nsp           | CC73CH1H101JT +1608            |         | 1    |     |
|                    | C1102      | nsp           | C1608X7R1H104K                 |         | 1    |     |
|                    | C1108,1109 | nsp           | CC73CH1H102JT +1608            |         | 1    |     |
|                    | C1110      | nsp           | C1608X7R1H104K                 |         | 1    |     |
|                    | C1112      | nsp           | C1608X7R1H104K                 |         | 1    |     |
|                    |            |               |                                |         |      |     |
| OTHERS PARTS GROUP |            |               |                                |         |      |     |
| ⚠                  | F1001      | 00MFS20025201 | # T250MA/250V TR5 NO.19372(TP) |         | 1    |     |
|                    | K1001      | 643010087005S | H/P JACK(PJ-612A)-NI-BK        |         | 1    |     |
|                    | K1002      | 643010088008S | MINI JACK(PJ-310HA-7)-NI       |         | 1    |     |
|                    | K1003      | 64301019700AS | 3P PIN JACK(RCA-328H)-NI-BK    |         | 1    |     |
|                    | N0101      | 00MYJ06006340 | B14B-PH-K-S (LF)(SN)           |         | 1    |     |
|                    | N0102      | 00MYJ06006290 | B9B-PH-K-S (LF)(SN)            |         | 1    |     |
|                    | N0103      | 00MYJ06006320 | B12B-PH-K-S (LF)(SN)           |         | 1    |     |
|                    | N0104      | 00MYJ06006310 | B11B-PH-K-S (LF)(SN)           |         | 1    |     |
|                    | N0105      | 00MYJ06006350 | B15B-PH-K-S (LF)(SN)           |         | 1    |     |
|                    | N0106-0118 | 645010056014S | 13P PLUG(C125Z1)               |         | 1    |     |
|                    | N0119      | 00MYP06003830 | B3B-EH 3P                      |         | 1    |     |
|                    | N0120      | 00MYJ06006360 | B16B-PH-K-S (LF)(SN)           |         | 1    |     |
|                    | N0121      | 00MYJ06006300 | B10B-PH-K-S (LF)(SN)           |         | 1    |     |
|                    | N0122      | 00MYJ06006340 | B14B-PH-K-S (LF)(SN)           |         | 1    |     |
|                    | N1001      | 00MYP06003960 | S7B-EH                         |         | 1    |     |
|                    | N1002      | 00MYJ06006270 | B7B-PH-K-S (LF)(SN)            |         | 1    |     |
|                    | N1006      | 00MYJ06006250 | B5B-PH-K-S (LF)(SN)            |         | 1    |     |
|                    | N1009      | 00MYJ06006450 | S5B-PH-K-S (LF)(SN)            |         | 1    |     |
|                    | N1012      | 645010077004S | 40FMN-BTRK-A(LF)(SN)           |         | 1    |     |

|  | Ref. No.   | Part No.      | Part Name                    | Remarks | Q'ty | New |
|--|------------|---------------|------------------------------|---------|------|-----|
|  | N1013      | 00MYJ06006430 | S3B-PH-K-S (LF)(SN)          |         | 1    |     |
|  | N1015      | 00MYJ06006230 | B3B-PH-K-S (LF)(SN)          |         | 1    |     |
|  | S1001-1023 | 00D2125611903 | TACT SWITCH(TAPE H5)         |         | 1    |     |
|  | S1024      | 665010017006S | PUSH SW(SSCT101)             |         | 1    |     |
|  | S1026      | 663010005007S | ROT.ENCODER(EC16B24S0-ZZZ)   |         | 1    |     |
|  | S1027      | 663010006000S | ROT.ENCODER(EC16B24T01D4ZZZ) |         | 1    |     |
|  | Z1002      | 172010008005S | VFD(GP1261AI)                |         | 1    |     |
|  | Z1003      | 17201001300AS | FLD(17-BT-40GINK)            |         | 1    |     |
|  | Z1006      | 471510038005M | BUFFER 10X7 T12 CR60         |         | 1    |     |
|  | Z1010      | nsp           | STYLE PIN                    |         | 1    |     |
|  | Z9001      | 454310041008M | HOLDER FLD SR7005 A332       |         | 1    |     |
|  | Z9002,9003 | 00D4610991026 | RUBBER SHEET                 |         | 1    |     |
|  |            |               |                              |         |      |     |

## HDAM/XLR AMP UNIT ASSY

|                             | Ref. No.   | Part No.      | Part Name                 | Remarks | Q'ty | New |
|-----------------------------|------------|---------------|---------------------------|---------|------|-----|
| <b>SEMICONDUCTORS GROUP</b> |            |               |                           |         |      |     |
|                             | D0101-0103 | 00D2760794900 | KDS160-RTK/P              |         | 1    |     |
|                             | Q0101      | 00D2730479909 | 2N5551S-RTK/P             |         | 1    |     |
|                             | Q0102,0103 | 00D2710318909 | 2N5401S-RTK/P             |         | 1    |     |
|                             | Q0104,0105 | 00D2730479909 | 2N5551S-RTK/P             |         | 1    |     |
|                             | Q0106      | 00D2710318909 | 2N5401S-RTK/P             |         | 1    |     |
|                             | Q0107      | 21585001550AS | KRA105S-RTK/P(2.2K-47K)   |         | 1    |     |
|                             | Q0108      | 00D2690192902 | KRC102S-RTK/P (10K-10K)   |         | 1    |     |
|                             | U0103,0104 | 235810050503S | NJM4565M                  |         | 1    |     |
|                             | U3006      | 00D2631288901 | PQ050DNA1ZPH              | N,K,F   | 1    |     |
|                             |            |               |                           |         |      |     |
| <b>RESISTORS GROUP</b>      |            |               |                           |         |      |     |
|                             | R0101      | nsp           | RM73B--471JT +1608        |         | 1    |     |
|                             | R0102      | nsp           | RM73B--333JT +1608        |         | 1    |     |
|                             | R0103      | nsp           | RM73B--331JT (1608) +1608 |         | 1    |     |
|                             | R0104      | nsp           | RM73B--0R0KT +1608        |         | 1    |     |
|                             | R0105      | nsp           | RM73B--333JT +1608        |         | 1    |     |
|                             | R0106      | nsp           | RM73B--101JT +1608        |         | 1    |     |
|                             | R0107,0108 | 00MGG0510016X | 10 OHM +- 5% 1/6W         |         | 1    |     |
|                             | R0109,0110 | nsp           | RM73B--220JT +1608        |         | 1    |     |
|                             | R0111,0112 | nsp           | RM73B--562JT +1608        |         | 1    |     |
|                             | R0113,0114 | nsp           | RM73B--471JT +1608        |         | 1    |     |
|                             | R0115,0116 | nsp           | RM73B--220JT +1608        |         | 1    |     |
|                             | R0117,0118 | nsp           | RM73B--331JT (1608) +1608 |         | 1    |     |
|                             | R0119      | nsp           | RM73B--105JT +1608        |         | 1    |     |
|                             | R0120      | nsp           | RM73B--471JT +1608        |         | 1    |     |
|                             | R0121      | nsp           | RM73B--470JT +1608        |         | 1    |     |
|                             | R0122,0123 | nsp           | RM73B--103JT +1608        |         | 1    |     |
|                             | R0124,0125 | nsp           | RM73B--472JT (1608) +1608 |         | 1    |     |
|                             | R0126,0127 | nsp           | RM73B--100JT +1608        |         | 1    |     |
|                             | R0128,0129 | nsp           | RM73B--103JT +1608        |         | 1    |     |
|                             | R0130,0131 | nsp           | RM73B--105JT +1608        |         | 1    |     |

| Ref. No.                  | Part No.      | Part Name                            | Remarks | Q'ty | New |
|---------------------------|---------------|--------------------------------------|---------|------|-----|
| R0132                     | nsp           | RM73B--100JT +1608                   |         | 1    |     |
| R3121-3124                | nsp           | RM73B--330JT +1608                   | N,K,F   | 1    |     |
| R3125                     | nsp           | RM73B--222JT +1608                   | N,K,F   | 1    |     |
| R3126,3127                | nsp           | RM73B--104JT +1608                   | N,K,F   | 1    |     |
| R3128,3129                | nsp           | RM73B--102JT +1608                   | N,K,F   | 1    |     |
| R3130,3131                | nsp           | RM73B--104JT +1608                   | N,K,F   | 1    |     |
| R3132,3133                | nsp           | RM73B--823JT +1608                   | N,K,F   | 1    |     |
| <b>CAPACITORS GROUP</b>   |               |                                      |         |      |     |
| C0101                     | 00D2544579707 | CE04W1H221MC(RA3)                    |         | 1    |     |
| C0102                     | 00MOA226025Z1 | ROS-25V 220M - F3#PE - T2 (22UF 25V) |         | 1    |     |
| C0103                     | 00D2544574919 | CE04W1H470MT(RA3)                    |         | 1    |     |
| C0104                     | nsp           | CC73CH1H101JT +1608                  |         | 1    |     |
| C0105                     | 00D2544579707 | CE04W1H221MC(RA3)                    |         | 1    |     |
| C0106                     | nsp           | CC73CH1H101JT +1608                  |         | 1    |     |
| C0107                     | nsp           | CC73CH1H471JT +1608                  |         | 1    |     |
| C0108                     | 00MOA226025Z1 | ROS-25V 220M - F3#PE - T2 (22UF 25V) |         | 1    |     |
| C0109-0111                | 00D2544574919 | CE04W1H470MT(RA3)                    |         | 1    |     |
| C3123                     | nsp           | CC73CH1H101JT +1608                  | N,K,F   | 1    |     |
| C3126-3129                | nsp           | CC73CH1H101JT +1608                  | N,K,F   | 1    |     |
| C3133-3135                | 13405014840AS | CE04W1J100MT(KR3)                    | N,K,F   | 1    |     |
| C3137                     | 13405014840AS | CE04W1J100MT(KR3)                    | N,K,F   | 1    |     |
| <b>OTHERS PARTS GROUP</b> |               |                                      |         |      |     |
| B0101,0102                | nsp           | M3 SCREW TERMINAL                    |         | 1    |     |
| L3003                     | 00D2350147909 | E.FIL(BLM21PG221SN1)+2125            | N,K,F   | 1    |     |
| N0101                     | 645010057017S | 13P SOCKET(C125Z2)                   |         | 1    |     |
| N3006                     | 645010057062S | 23P SOCKET(C125Z2)                   | N,K,F   | 1    |     |
| N4820                     | 645010056069S | 23P PLUG(C125Z1)                     |         | 1    |     |
| N9009,9010                | 00MYP06013300 | 2P PLUG B2P3S-VH                     |         | 1    |     |
| S0101                     | 682010021000S | RELAY(BC3-12)                        |         | 1    |     |
| Z3001                     | 18301002800AS | TUNER MODULE (KST-MW104FV1-S63V)     | N       | 1    |     |
| Z3001                     | 18301002900AS | TUNER MODULE (KST-MW004FV1-S63)      | K,F     | 1    |     |

## A.AUDIO/VIDEO UNIT ASSY

| Ref. No.                    | Part No.      | Part Name          | Remarks | Q'ty | New |
|-----------------------------|---------------|--------------------|---------|------|-----|
| <b>SEMICONDUCTORS GROUP</b> |               |                    |         |      |     |
| D3501-3510                  | 00D2760794900 | KDS160-RTK/P       |         | 1    |     |
| D3528                       | 00D2760794900 | KDS160-RTK/P       |         | 1    |     |
| D3701-3708                  | 20305002730AS | 1N4003(HOMI)       |         | 1    |     |
| D3713                       | 00D2760750902 | RB521S-30TE61 +REF |         | 1    |     |
| D3714-3718                  | 20305002730AS | 1N4003(HOMI)       |         | 1    |     |
| D3719                       | 00D2760750902 | RB521S-30TE61 +REF |         | 1    |     |
| D3721-3724                  | 20305002730AS | 1N4003(HOMI)       |         | 1    |     |
| D3726                       | 00D2760750902 | RB521S-30TE61 +REF |         | 1    |     |
| D3728                       | 00D2760750902 | RB521S-30TE61 +REF |         | 1    |     |



|                        | Ref. No.   | Part No.      | Part Name                 | Remarks | Q'ty | New |
|------------------------|------------|---------------|---------------------------|---------|------|-----|
|                        | D3729      | 20305002730AS | 1N4003(HOMI)              |         | 1    |     |
|                        | D3913,3914 | 00D2760683998 | UDZS16B-TE17 +C           |         | 1    |     |
|                        | D3916,3917 | 251310004507S | CG0603MLC-12LE            |         | 1    |     |
|                        | Q3501      | 00D2690192902 | KRC102S-RTK/P (10K-10K)   |         | 1    |     |
|                        | Q3502      | 21585001550AS | KRA105S-RTK/P(2.2K-47K)   |         | 1    |     |
|                        | Q3503      | 00D2690192902 | KRC102S-RTK/P (10K-10K)   |         | 1    |     |
|                        | Q3504      | 21585001550AS | KRA105S-RTK/P(2.2K-47K)   |         | 1    |     |
|                        | Q3505      | 00D2690192902 | KRC102S-RTK/P (10K-10K)   |         | 1    |     |
|                        | Q3506      | 21585001550AS | KRA105S-RTK/P(2.2K-47K)   |         | 1    |     |
|                        | Q3507      | 00D2690192902 | KRC102S-RTK/P (10K-10K)   |         | 1    |     |
|                        | Q3508      | 21585001550AS | KRA105S-RTK/P(2.2K-47K)   |         | 1    |     |
|                        | Q3509      | 00D2690192902 | KRC102S-RTK/P (10K-10K)   |         | 1    |     |
|                        | Q3510      | 21585001550AS | KRA105S-RTK/P(2.2K-47K)   |         | 1    |     |
|                        | Q3511      | 00D2690192902 | KRC102S-RTK/P (10K-10K)   |         | 1    |     |
|                        | Q3512      | 21585001550AS | KRA105S-RTK/P(2.2K-47K)   |         | 1    |     |
|                        | Q3513      | 00D2690192902 | KRC102S-RTK/P (10K-10K)   |         | 1    |     |
|                        | Q3514      | 21585001550AS | KRA105S-RTK/P(2.2K-47K)   |         | 1    |     |
|                        | Q3515      | 00D2690192902 | KRC102S-RTK/P (10K-10K)   |         | 1    |     |
|                        | Q3516      | 21585001550AS | KRA105S-RTK/P(2.2K-47K)   |         | 1    |     |
|                        | Q3517      | 00D2690192902 | KRC102S-RTK/P (10K-10K)   |         | 1    |     |
|                        | Q3518      | 21585001550AS | KRA105S-RTK/P(2.2K-47K)   |         | 1    |     |
|                        | Q3519      | 00D2690192902 | KRC102S-RTK/P (10K-10K)   |         | 1    |     |
|                        | Q3520      | 21585001550AS | KRA105S-RTK/P(2.2K-47K)   |         | 1    |     |
|                        | Q3521      | 00D2690192902 | KRC102S-RTK/P (10K-10K)   |         | 1    |     |
|                        | Q3522      | 21585001550AS | KRA105S-RTK/P(2.2K-47K)   |         | 1    |     |
|                        | Q3905      | 00D2710260905 | 2SA1036KT146(S/R) +C      |         | 1    |     |
|                        | Q3906      | 00D2690192902 | KRC102S-RTK/P (10K-10K)   |         | 1    |     |
|                        | Q3907      | 00D2710260905 | 2SA1036KT146(S/R) +C      |         | 1    |     |
|                        | Q3908      | 00D2690192902 | KRC102S-RTK/P (10K-10K)   |         | 1    |     |
|                        | U0066      | 236810090504S | ILX3232D                  |         | 1    |     |
|                        | U3001-3004 | 234810014504S | MC14094BDTR2G             |         | 1    |     |
|                        | U3005      | 235810050503S | NJM4565M                  | U       | 1    |     |
|                        | U3201,3202 | 235810045600S | R2A15220FP                |         | 1    |     |
|                        | U3203,3204 | 00D2623727904 | NJW1194V-TE1              |         | 1    |     |
|                        | U3205-3210 | 235810050503S | NJM4565M                  |         | 1    |     |
|                        | U3211      | 00D2631289900 | AZ4580MTR-E1              |         | 1    |     |
|                        | U3701      | 00D2631048002 | BA033T                    |         | 1    |     |
|                        | U3702      | 00D2630554005 | NJM7905FA                 |         | 1    |     |
|                        | U3703      | 235810046603S | AVDM-2000                 |         | 1    |     |
|                        | U3706      | 00D2630801004 | NJM7812FA(S)              |         | 1    |     |
|                        | U3707      | 00D2630809006 | NJM7805FA(S)              |         | 1    |     |
|                        |            |               |                           |         |      |     |
| <b>RESISTORS GROUP</b> |            |               |                           |         |      |     |
|                        | R0767,0768 | 00D2473008941 | RM73B--102JT              |         | 1    |     |
|                        | R3001-3004 | nsp           | RM73B--0R0KT +1608        |         | 1    |     |
|                        | R3005-3008 | nsp           | RM73B--750JT +1608        |         | 1    |     |
|                        | R3026      | nsp           | RM73B--472JT (1608) +1608 |         | 1    |     |
|                        | R3027,3028 | nsp           | RM73B--0R0KT +1608        |         | 1    |     |

|  | Ref. No.   | Part No.      | Part Name                 | Remarks | Q'ty | New |
|--|------------|---------------|---------------------------|---------|------|-----|
|  | R3029,3030 | 00D2472032905 | RM73B--750DT(1608)        |         | 1    |     |
|  | R3031-3034 | nsp           | RM73B--0R0KT +1608        |         | 1    |     |
|  | R3102      | nsp           | RM73B--0R0KT +1608        | U       | 1    |     |
|  | R3104      | nsp           | RM73B--100JT +1608        | U       | 1    |     |
|  | R3106      | nsp           | RM73B--100JT +1608        | U       | 1    |     |
|  | R3107-3110 | nsp           | RM73B--153JT +1608        | U       | 1    |     |
|  | R3111-3114 | nsp           | RM73B--393JT +1608        | U       | 1    |     |
|  | R3115,3116 | nsp           | RM73B--104JT +1608        | U       | 1    |     |
|  | R3117      | nsp           | RM73B--0R0KT +1608        | U       | 1    |     |
|  | R3201-3222 | nsp           | RM73B--471JT +1608        |         | 1    |     |
|  | R3223-3234 | nsp           | RM73B--824JT +1608        |         | 1    |     |
|  | R3235,3236 | nsp           | RM73B--104JT +1608        |         | 1    |     |
|  | R3237-3244 | nsp           | RM73B--824JT +1608        |         | 1    |     |
|  | R3245,3246 | nsp           | RM73B--104JT +1608        |         | 1    |     |
|  | R3247,3248 | nsp           | RM73B--0R0KT +1608        | U,F     | 1    |     |
|  | R3247,3248 | nsp           | RM73B--472JT (1608) +1608 | N,K     | 1    |     |
|  | R3249,3250 | nsp           | RM73B--391JT +1608        |         | 1    |     |
|  | R3251,3252 | nsp           | RM73B--683JT +1608        |         | 1    |     |
|  | R3253,3254 | nsp           | RM73B--154JT +1608        |         | 1    |     |
|  | R3255,3256 | nsp           | RM73B--271JT +1608        |         | 1    |     |
|  | R3257,3258 | nsp           | RM73B--470JT +1608        |         | 1    |     |
|  | R3259,3260 | nsp           | RM73B--154JT +1608        |         | 1    |     |
|  | R3261,3262 | nsp           | RM73B--123JT +1608        |         | 1    |     |
|  | R3263,3264 | nsp           | RM73B--470JT +1608        |         | 1    |     |
|  | R3265,3266 | nsp           | RM73B--474JT +1608        |         | 1    |     |
|  | R3267      | nsp           | RM73B--473JT +1608        |         | 1    |     |
|  | R3270-3275 | nsp           | RM73B--470JT +1608        |         | 1    |     |
|  | R3276,3277 | nsp           | RM73B--473JT +1608        |         | 1    |     |
|  | R3278-3283 | nsp           | RM73B--470JT +1608        |         | 1    |     |
|  | R3284-3288 | nsp           | RM73B--473JT +1608        |         | 1    |     |
|  | R3289,3290 | nsp           | RM73B--470JT +1608        |         | 1    |     |
|  | R3291,3292 | nsp           | RM73B--473JT +1608        |         | 1    |     |
|  | R3293,3294 | nsp           | RM73B--470JT +1608        |         | 1    |     |
|  | R3295      | nsp           | RM73B--473JT +1608        |         | 1    |     |
|  | R3296,3297 | nsp           | RM73B--470JT +1608        |         | 1    |     |
|  | R3301-3304 | nsp           | RM73B--474JT +1608        |         | 1    |     |
|  | R3305-3308 | nsp           | RM73B--154JT +1608        |         | 1    |     |
|  | R3309-3312 | nsp           | RM73B--334JT +1608        |         | 1    |     |
|  | R3313-3316 | nsp           | RM73B--101JT +1608        |         | 1    |     |
|  | R3317-3320 | nsp           | RM73B--104JT +1608        |         | 1    |     |
|  | R3321-3328 | nsp           | RM73B--393JT +1608        |         | 1    |     |
|  | R3329-3332 | nsp           | RM73B--223JT +1608        |         | 1    |     |
|  | R3333-3340 | nsp           | RM73B--472JT (1608) +1608 |         | 1    |     |
|  | R3341-3344 | nsp           | RM73B--470JT +1608        |         | 1    |     |
|  | R3345-3348 | nsp           | RM73B--104JT +1608        |         | 1    |     |
|  | R3349-3352 | nsp           | RM73B--101JT +1608        |         | 1    |     |
|  | R3353-3356 | nsp           | RM73B--472JT (1608) +1608 |         | 1    |     |
|  | R3357-3364 | nsp           | RM73B--104JT +1608        |         | 1    |     |

|                         | Ref. No.   | Part No.      | Part Name                 | Remarks | Q'ty | New |
|-------------------------|------------|---------------|---------------------------|---------|------|-----|
|                         | R3371-3377 | 126210009591S | MNR04=473(1005X4)         |         | 1    |     |
|                         | R3386      | 126210009591S | MNR04=473(1005X4)         |         | 1    |     |
|                         | R3501-3508 | nsp           | RM73B--100JT +1608        |         | 1    |     |
|                         | R3509-3525 | nsp           | RM73B--104JT +1608        |         | 1    |     |
|                         | R3540-3556 | nsp           | RM73B--104JT +1608        |         | 1    |     |
|                         | R3557-3573 | nsp           | RM73B--221JT +1608        |         | 1    |     |
|                         | R3574-3576 | nsp           | RM73B--100JT +1608        |         | 1    |     |
|                         | R3701-3712 | nsp           | RM73B--750DT(1608)        |         | 1    |     |
|                         | R3713      | nsp           | RM73B--101JT +1608        |         | 1    |     |
|                         | R3716      | nsp           | RM73B--104JT +1608        |         | 1    |     |
|                         | R3717      | nsp           | RM73B2B0R0KT +3216        |         | 1    |     |
|                         | R3725,3726 | nsp           | RM73B--473JT +1608        |         | 1    |     |
|                         | R3731      | nsp           | RM73B--750DT(1608)        |         | 1    |     |
|                         | R3732      | nsp           | RM73B--473JT +1608        |         | 1    |     |
|                         | R3733      | nsp           | RM73B--750DT(1608)        |         | 1    |     |
|                         | R3734,3735 | nsp           | RM73B--472JT (1608) +1608 |         | 1    |     |
|                         | R3736,3737 | nsp           | RM73B--100JT +1608        |         | 1    |     |
|                         | R3738,3739 | nsp           | RM73B--101JT +1608        |         | 1    |     |
|                         | R3740      | nsp           | RM73B--750DT(1608)        |         | 1    |     |
|                         | R3741      | nsp           | RM73B--472JT (1608) +1608 |         | 1    |     |
|                         | R3742      | nsp           | RM73B--750DT(1608)        |         | 1    |     |
|                         | R3743,3744 | nsp           | RM73B--100JT +1608        |         | 1    |     |
|                         | R3745,3746 | nsp           | RM73B--750DT(1608)        |         | 1    |     |
|                         | R3747,3748 | nsp           | RM73B--100JT +1608        |         | 1    |     |
|                         | R3749,3750 | nsp           | RM73B--750DT(1608)        |         | 1    |     |
|                         | R3751,3752 | nsp           | RM73B--100JT +1608        |         | 1    |     |
|                         | R3753-3755 | nsp           | RM73B--102JT +1608        |         | 1    |     |
|                         | R3762      | nsp           | RM73B--750DT(1608)        |         | 1    |     |
|                         | R3907      | nsp           | RM73B--102JT +1608        |         | 1    |     |
|                         | R3908      | nsp           | RM73B--472JT (1608) +1608 |         | 1    |     |
|                         | R3909      | nsp           | RM73B--102JT +1608        |         | 1    |     |
|                         | R3910      | nsp           | RM73B--472JT (1608) +1608 |         | 1    |     |
|                         | R4001-4024 | nsp           | RM73B--103JT +1608        |         | 1    |     |
|                         | R8062      | nsp           | RM73B--330JT +1005        |         | 1    |     |
|                         | R8063,8064 | nsp           | RM73B--0R0KT +1608        |         | 1    |     |
|                         |            |               |                           |         |      |     |
| <b>CAPACITORS GROUP</b> |            |               |                           |         |      |     |
|                         | B3001,3002 | nsp           | M3 SCREW TERMINAL         |         | 1    |     |
|                         | B3903      | nsp           | M3 SCREW TERMINAL         |         | 1    |     |
|                         | B4001,4002 | nsp           | M3 SCREW TERMINAL         |         | 1    |     |
|                         | B4004      | nsp           | M3 SCREW TERMINAL         |         | 1    |     |
|                         | C0837      | nsp           | CK73B0J475KT +1608        |         | 1    |     |
|                         | C0838-0843 | nsp           | CK73B1E104KT +1608        |         | 1    |     |
|                         | C3022-3025 | nsp           | CK73B1E104KT +1608        |         | 1    |     |
|                         | C3026,3027 | nsp           | CK73X5R0J106MT(2125)      |         | 1    |     |
|                         | C3028      | nsp           | CK73B1E104KT +1608        |         | 1    |     |
|                         | C3029-3036 | nsp           | CK73X5R0J106MT(2125)      |         | 1    |     |
|                         | C3101      | nsp           | CK73B1E104KT +1608        | U       | 1    |     |

|  | Ref. No.   | Part No.      | Part Name                 | Remarks | Q'ty | New |
|--|------------|---------------|---------------------------|---------|------|-----|
|  | C3102-3104 | nsp           | CC73CH1H101JT +1608       | U       | 1    |     |
|  | C3105,3106 | nsp           | CK73B1E104KT +1608        | U       | 1    |     |
|  | C3107-3110 | 13405014840AS | CE04W1J100MT(KR3)         | U       | 1    |     |
|  | C3112,3113 | nsp           | CC73CH1H330JT +1608       | U       | 1    |     |
|  | C3115,3116 | nsp           | CC73CH1H330JT +1608       | U       | 1    |     |
|  | C3117,3118 | nsp           | CK73B1E104KT +1608        | U       | 1    |     |
|  | C3119,3120 | 13405014840AS | CE04W1J100MT(KR3)         | U       | 1    |     |
|  | C3139      | nsp           | CK73X5R1C106KT(2125)      | U       | 1    |     |
|  | C3201-3212 | nsp           | CC73CH1H331JT +1608       |         | 1    |     |
|  | C3213,3214 | nsp           | CC73CH1H471JT +1608       |         | 1    |     |
|  | C3215-3222 | nsp           | CC73CH1H331JT +1608       |         | 1    |     |
|  | C3225,3226 | nsp           | CC73CH1H221JT +1608       |         | 1    |     |
|  | C3227,3228 | 00D2544573981 | CE04W1H100MT(RA3)         |         | 1    |     |
|  | C3229,3230 | 00D2544577958 | CE04W1C221MT(RA3)         |         | 1    |     |
|  | C3231,3232 | nsp           | CC73CH1H101JT +1608       |         | 1    |     |
|  | C3233,3234 | nsp           | CK73B1E223KT +1608        |         | 1    |     |
|  | C3235,3236 | nsp           | CK73B1H682KT +1608        |         | 1    |     |
|  | C3237,3238 | 00D2544573981 | CE04W1H100MT(RA3)         |         | 1    |     |
|  | C3239,3240 | 13405013240AS | CE04W1E470MT(KR3)         |         | 1    |     |
|  | C3241-3247 | 00D2544577958 | CE04W1C221MT(RA3)         |         | 1    |     |
|  | C3248,3249 | 00D2544577961 | CE04W1C331MT(RA3)         |         | 1    |     |
|  | C3250-3260 | 00D2544577958 | CE04W1C221MT(RA3)         |         | 1    |     |
|  | C3261,3262 | 13405014840AS | CE04W1J100MT(KR3)         |         | 1    |     |
|  | C3301-3304 | nsp           | CK73X5R1C106KT(2125)      |         | 1    |     |
|  | C3305-3312 | nsp           | CK73B1H103KT (1608) +1608 |         | 1    |     |
|  | C3313-3316 | nsp           | CK73X5R1C106KT(2125)      |         | 1    |     |
|  | C3317-3324 | nsp           | CC73CH1H101JT +1608       |         | 1    |     |
|  | C3325-3328 | nsp           | CK73X5R1C106KT(2125)      |         | 1    |     |
|  | C3329-3332 | nsp           | CK73B1E104KT +1608        |         | 1    |     |
|  | C3333-3336 | nsp           | CK73X5R1C106KT(2125)      |         | 1    |     |
|  | C3341,3342 | nsp           | CK73X5R1C106KT(2125)      |         | 1    |     |
|  | C3343-3346 | nsp           | CK73B1H332KT +1608        |         | 1    |     |
|  | C3347-3350 | nsp           | CK73X5R1C106KT(2125)      |         | 1    |     |
|  | C3351-3354 | nsp           | RM73B--0R0KT +2125        |         | 1    |     |
|  | C3355-3358 | nsp           | CK73X5R1C106KT(2125)      |         | 1    |     |
|  | C3359-3362 | nsp           | CK73B1E104KT +1608        |         | 1    |     |
|  | C3519-3535 | 00D2544573981 | CE04W1H100MT(RA3)         |         | 1    |     |
|  | C3542-3558 | nsp           | CC73CH1H471JT +1608       |         | 1    |     |
|  | C3559      | nsp           | CK73B1E104KT +1608        |         | 1    |     |
|  | C3560      | nsp           | CK73B1H102KT +1608        |         | 1    |     |
|  | C3702,3703 | 13405013540AS | CE04W1V102MT(KR3)         |         | 1    |     |
|  | C3704      | 133050083511S | CQ93M2A104JT(PEF)         |         | 1    |     |
|  | C3705-3716 | nsp           | CK73X5R0J106MT(2125)      |         | 1    |     |
|  | C3717      | 13405018320AS | CE04W1C472MC(KR1)         |         | 1    |     |
|  | C3718      | 13405018220AS | CE04W1C222MC(KR1)         |         | 1    |     |
|  | C3719,3720 | 13405014840AS | CE04W1J100MT(KR3)         |         | 1    |     |
|  | C3725,3726 | 13405014840AS | CE04W1J100MT(KR3)         |         | 1    |     |
|  | C3729-3731 | nsp           | CK73B1E104KT +1608        |         | 1    |     |

|                           | Ref. No.   | Part No.      | Part Name                                   | Remarks | Q'ty | New |
|---------------------------|------------|---------------|---------------------------------------------|---------|------|-----|
|                           | C3734-3747 | nsp           | CK73B1E104KT +1608                          |         | 1    |     |
|                           | C3748,3749 | 13405012840AS | CE04W1A101MT(KR3)                           |         | 1    |     |
|                           | C3763      | 133050083511S | CQ93M2A104JT(PEF)                           |         | 1    |     |
|                           | C3764      | 00D2544761735 | CE04W1C472MC(SMQ)                           |         | 1    |     |
|                           | C3765      | 13405014840AS | CE04W1J100MT(KR3)                           |         | 1    |     |
|                           | C3766      | 13405018420AS | CE04D1C222MBPC(SME)                         |         | 1    |     |
|                           | C3768      | 13405018420AS | CE04D1C222MBPC(SME)                         |         | 1    |     |
|                           | C3769      | 00D2544573981 | CE04W1H100MT(RA3)                           |         | 1    |     |
|                           | C3771      | 13405014840AS | CE04W1J100MT(KR3)                           |         | 1    |     |
|                           | C3773      | 133050090557S | CQ93P2A104JT(PPF)                           |         | 1    |     |
|                           | C3915-3918 | nsp           | CK73B1H102KT +1608                          |         | 1    |     |
|                           | C3919,3920 | nsp           | CK73B1E104KT +1608                          |         | 1    |     |
|                           | C3924,3925 | nsp           | CC73CH1H330JT +1608                         |         | 1    |     |
|                           | C4001-4012 | 00D2544574919 | CE04W1H470MT(RA3)                           |         | 1    |     |
|                           | C4017      | 00D2544574919 | CE04W1H470MT(RA3)                           |         | 1    |     |
|                           | C4019      | 00D2544574919 | CE04W1H470MT(RA3)                           |         | 1    |     |
|                           | C4021      | 00D2544574919 | CE04W1H470MT(RA3)                           |         | 1    |     |
|                           | C4024      | 00D2544574919 | CE04W1H470MT(RA3)                           |         | 1    |     |
|                           | C4026      | 00D2544574919 | CE04W1H470MT(RA3)                           |         | 1    |     |
|                           | C4027,4028 | 00D2544569937 | CE04W1E221MT(RA3)                           |         | 1    |     |
|                           | C4031      | 00D2544574919 | CE04W1H470MT(RA3)                           |         | 1    |     |
|                           | C4033      | 00D2544574919 | CE04W1H470MT(RA3)                           |         | 1    |     |
|                           | C4036      | 00D2544574919 | CE04W1H470MT(RA3)                           |         | 1    |     |
|                           | C4038-4040 | 00D2544574919 | CE04W1H470MT(RA3)                           |         | 1    |     |
|                           | C4043-4046 | nsp           | RM73B--0R0KT+1005                           |         | 1    |     |
|                           | C4047      | nsp           | CK73B1H102KT +1608                          |         | 1    |     |
|                           | C4048      | nsp           | CC73CH1H101JT +1608                         |         | 1    |     |
|                           | C4049      | nsp           | CK73B1H102KT +1608                          |         | 1    |     |
|                           | C4050      | nsp           | CC73CH1H101JT +1608                         |         | 1    |     |
|                           | C4051-4053 | nsp           | CK73B1H102KT +1608                          |         | 1    |     |
|                           | C4876      | nsp           | CC73CH1H102JT +1608                         |         | 1    |     |
|                           |            |               |                                             |         |      |     |
| <b>OTHERS PARTS GROUP</b> |            |               |                                             |         |      |     |
| ⚠                         | F3701      | 00MFS20250201 | # T2.5A/250V TR5 NO.19372 (T                |         | 1    |     |
| ⚠                         | F3702      | 00MFS20200201 | # T2.0A 250V TR5                            |         | 1    |     |
|                           | K3102-3104 | 64301016600AS | 6P PIN JACK(RCA-637G)-AU-RW                 |         | 1    |     |
|                           | K3105      | 64301016700AS | 6P PIN JACK(RCA-637G)-AU-RWB                |         | 1    |     |
|                           | K3301      | 64301016600AS | 6P PIN JACK(RCA-637G)-AU-RW                 |         | 1    |     |
|                           | K3302      | 64301016800AS | 3P PIN JACK(RCA-349BG)-AU-WBB               |         | 1    |     |
|                           | K3303      | 64301016600AS | 6P PIN JACK(RCA-637G)-AU-RW                 |         | 1    |     |
|                           | K3501,3502 | 64301017000AS | 6P PIN JACK(RCA-637G)-AU-GBR                |         | 1    |     |
|                           | K3503      | 64301016900AS | 6P PIN JACK(RCA-637G)-AU-Y                  |         | 1    |     |
|                           | K3504      | 64301017100AS | 3P PIN JACK(RCA-349BG)-AU-GBR               |         | 1    |     |
|                           | K3901,3902 | 643010086002S | MINI JACK(PJ-308-02)                        |         | 1    |     |
|                           | K3905      | 64301017200AS | 9 P D - S U B<br>CONNECTOR(D227FD009S100BY) |         | 1    |     |
|                           | K4805      | 64301000710AS | 2PIN PIN JACK(RCA-206BG-00-05)-AU-RD/<br>WH |         | 1    |     |
|                           | L3201,3202 | 00D2359003002 | FTZ CHOKE COIL                              | N,K     | 1    |     |

|  | Ref. No.   | Part No.      | Part Name                 | Remarks | Q'ty | New |
|--|------------|---------------|---------------------------|---------|------|-----|
|  | L3901      | nsp           | E.FIL(BLM21PG221SN1)+2125 |         | 1    |     |
|  | N3001,3002 | 645010057093S | 33P SOCKET(C125Z2)        |         | 1    |     |
|  | N3003      | 00D2050770058 | 33PFFC BASE (SIDE)        |         | 1    |     |
|  | N3004      | 645010057093S | 33P SOCKET(C125Z2)        |         | 1    |     |
|  | N3007      | 645010056069S | 23P PLUG(C125Z1)          | N,K,F   | 1    |     |
|  | N3008      | 00D2051318011 | 13 FFC BASE(9604F)        | U       | 1    |     |
|  | N3009      | 61205049901AS | 3P 330mm PH-SAN           |         | 1    |     |
|  | N3204      | 00MYJ06006340 | B14B-PH-K-S (LF)(SN)      |         | 1    |     |
|  | N3205      | 00MYJ06006290 | B9B-PH-K-S (LF)(SN)       |         | 1    |     |
|  | N3206      | 00MYJ06006320 | B12B-PH-K-S (LF)(SN)      |         | 1    |     |
|  | N3207      | 00MYJ06006310 | B11B-PH-K-S (LF)(SN)      |         | 1    |     |
|  | N3209      | 00MYJ06006270 | B7B-PH-K-S (LF)(SN)       |         | 1    |     |
|  | N3501      | 00MYJ06006230 | B3B-PH-K-S (LF)(SN)       |         | 1    |     |
|  | N3701      | 00MYP06010460 | B7B-EH                    |         | 1    |     |
|  | N3903      | 00D2051343905 | 11P FFC BASE(9610SCA      |         | 1    |     |
|  | N4001      | 645010056007S | 11P PLUG(C125Z1)          |         | 1    |     |
|  | N4002-4007 | 645010056090S | 33P PLUG(C125Z1)          |         | 1    |     |
|  | N4008      | 645010056045S | 19P PLUG(C125Z1)          |         | 1    |     |
|  | N4009      | 00MYJ06006240 | B4B-PH-K-S (LF)(SN)       |         | 1    |     |
|  | N4807      | 61205053600AS | 3P 250mm PH-SAN           | U       | 1    |     |
|  | S3501-3511 | 682010021000S | RELAY(BC3-12)             |         | 1    |     |
|  | Z3701      | 00D4170476023 | RADIATOR                  |         | 1    |     |
|  | Z3702      | 00D4170476007 | RADIATOR                  |         | 1    |     |
|  | Z3703-3705 | nsp           | SCREW                     |         | 1    |     |
|  | Z3706,3707 | nsp           | RADIATOR                  |         | 1    |     |
|  | Z3708      | nsp           | SCREW                     |         | 1    |     |
|  | Z3709      | nsp           | STYLE PIN                 |         | 1    |     |
|  | Z3712      | nsp           | STYLE PIN                 |         | 1    |     |
|  | Z4004-4006 | nsp           | STYLE PIN                 |         | 1    |     |
|  |            |               |                           |         |      |     |

## NETWORK\_DSP UNIT ASSY

|                             | Ref. No.   | Part No.      | Part Name                | Remarks | Q'ty | New |
|-----------------------------|------------|---------------|--------------------------|---------|------|-----|
| <b>SEMICONDUCTORS GROUP</b> |            |               |                          |         |      |     |
|                             | D0601-0603 | 251310004507S | CG0603MLC-12LE           |         | 1    |     |
|                             | D0701-0716 | 251310004507S | CG0603MLC-12LE           |         | 1    |     |
|                             | D0902      | 00D2760683930 | UDZS5.1B-TE17 +C         |         | 1    |     |
|                             | D0903-0905 | 251310004507S | CG0603MLC-12LE           |         | 1    |     |
|                             | Q0601,0602 | 21535001250AS | KRA302E-RTK/P            |         | 1    |     |
|                             | Q0603-0606 | 00MBA2000399Y | KRC402E-RTK KEC          |         | 1    |     |
|                             | Q0701      | 00D2720166905 | 2SB798(DL/DK)-T1 +C      |         | 1    |     |
|                             | Q0902      | 00MBA2000199Y | KRC404E-RTK KEC STANDARD |         | 1    |     |
|                             | Q0903      | 211850008504S | 2SA2018TL                |         | 1    |     |
|                             | Q0904      | 00D2750110905 | HN1K02FU-TE85L           |         | 1    |     |
|                             | Q0905      | 21535001250AS | KRA302E-RTK/P            |         | 1    |     |
|                             | U0002      | 231810089509S | EX3AV                    |         | 1    |     |
|                             | U0101      | 24581002961AS | ADSP21487KSWZ4B3027      |         | 1    |     |

| Ref. No.   | Part No.      | Part Name                                                                             | Remarks | Q'ty | New |
|------------|---------------|---------------------------------------------------------------------------------------|---------|------|-----|
| U0102      | 24681007360AS | A3V56S40FTP-6G                                                                        |         | 1    |     |
| U0103      | 8R2481011300S | D S P 1 R O M S U B A S S Y<br>(MX29LV160DBTI-70G)                                    |         | 1    |     |
| U0201      | 24581002961AS | ADSP21487KSWZ4B3027                                                                   |         | 1    |     |
| U0202      | 24681007360AS | A3V56S40FTP-6G                                                                        |         | 1    |     |
| U0203      | 8R2481011400S | D S P 2 R O M S U B A S S Y<br>(MX29LV160DBTI-70G)                                    |         | 1    |     |
| U0301      | 24581002961AS | ADSP21487KSWZ4B3027                                                                   |         | 1    |     |
| U0302      | 24681007360AS | A3V56S40FTP-6G                                                                        |         | 1    |     |
| U0303      | 8R2481011500S | D S P 3 R O M S U B A S S Y<br>(MX29LV160DBTI-70G)                                    |         | 1    |     |
| U0503      | 23681011260AS | DM860A                                                                                |         | 1    |     |
| U0504      | 8R2481014200S | D M 8 6 0 R O M S U B N R 1 6 0 3 _<br>S R X 0 0 7 _ A V X X 0 1<br>(H27U1G8F2BTR-BC) |         | 1    |     |
| U0505,0506 | 24681007660AS | A3V56S30FTP-6G                                                                        |         | 1    |     |
| U0601      | 236810071503S | NLAS7222CMUTBG                                                                        |         | 1    |     |
| U0603,0604 | 23681012650AS | NCP380HMu21AATBG                                                                      |         | 1    |     |
| U0605      | 00MHC007805KZ | TC74VHCT125AFT OUAD BUS BUFFER                                                        |         | 1    |     |
| U0606      | 00D2623444902 | TC74VHC08FT                                                                           |         | 1    |     |
| U0607      | 00D2623711907 | SAA7121H/V2.518                                                                       |         | 1    |     |
| U0608,0609 | 231810089509S | EX3AV                                                                                 |         | 1    |     |
| U0610      | 23671011050AS | MFI337S3959 IPOD COPROCESSOR 2.0C<br>CLASS6                                           |         | 1    |     |
| U0701      | 103810002508S | PULSE-TRANS(S558-5999-U-7-F)                                                          |         | 1    |     |
| U0702      | 23681012560AS | IP175C LF                                                                             |         | 1    |     |
| U0704      | 103810002508S | PULSE-TRANS(S558-5999-U-7-F)                                                          |         | 1    |     |
| U0705      | 231810089509S | EX3AV                                                                                 |         | 1    |     |
| U0706      | 23681012350AS | LAN8720A-CP-TR                                                                        |         | 1    |     |
| U0900      | 00D2623425905 | LTC4300-2CMS8                                                                         |         | 1    |     |
| U0902      | 23681013060AS | SII1292CNUC                                                                           |         | 1    |     |

#### RESISTORS GROUP

|            |               |                    |  |   |  |
|------------|---------------|--------------------|--|---|--|
| R0001      | nsp           | RM73B--0R0KT+1005  |  | 1 |  |
| R0002      | nsp           | RM73B--473JT+1005  |  | 1 |  |
| R0009-0011 | nsp           | RM73B--154DT(1608) |  | 1 |  |
| R0102      | nsp           | RM73B--103JT +1005 |  | 1 |  |
| R0103      | nsp           | MNR04=330(1005X4)  |  | 1 |  |
| R0105      | 00D2473008941 | RM73B--102JT       |  | 1 |  |
| R0107-0110 | nsp           | RM73B--472JT+1005  |  | 1 |  |
| R0111      | nsp           | MNR04=472(1005X4)  |  | 1 |  |
| R0112,0113 | nsp           | MNR04=100(1005X4)  |  | 1 |  |
| R0114      | 00D2473005944 | RM73B--560JT       |  | 1 |  |
| R0115,0116 | nsp           | MNR04=100(1005X4)  |  | 1 |  |
| R0117      | nsp           | MNR04=330(1005X4)  |  | 1 |  |
| R0118      | nsp           | MNR04=472(1005X4)  |  | 1 |  |
| R0119      | nsp           | MNR04=330(1005X4)  |  | 1 |  |
| R0120      | nsp           | RM73B--330JT +1005 |  | 1 |  |
| R0121-0124 | nsp           | MNR04=330(1005X4)  |  | 1 |  |
| R0125,0126 | nsp           | RM73B--330JT +1005 |  | 1 |  |



| Ref. No.   | Part No.      | Part Name          | Remarks | Q'ty | New |
|------------|---------------|--------------------|---------|------|-----|
| R0127      | nsp           | RM73B--105JT +1608 |         | 1    |     |
| R0128      | nsp           | RM73B--470JT +1608 |         | 1    |     |
| R0129,0130 | nsp           | MNR04=330(1005X4)  |         | 1    |     |
| R0131-0134 | nsp           | RM73B--330JT +1005 |         | 1    |     |
| R0135      | nsp           | MNR04=330(1005X4)  |         | 1    |     |
| R0136      | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
| R0137-0139 | nsp           | MNR04=103(1005X4)  |         | 1    |     |
| R0140      | nsp           | RM73B--472JT+1005  |         | 1    |     |
| R0142      | nsp           | MNR04=103(1005X4)  |         | 1    |     |
| R0143,0144 | nsp           | MNR04=472(1005X4)  |         | 1    |     |
| R0202      | nsp           | RM73B--103JT +1005 |         | 1    |     |
| R0203      | nsp           | MNR04=330(1005X4)  |         | 1    |     |
| R0205      | 00D2473008941 | RM73B--102JT       |         | 1    |     |
| R0207-0210 | nsp           | RM73B--472JT+1005  |         | 1    |     |
| R0211      | nsp           | MNR04=472(1005X4)  |         | 1    |     |
| R0212,0213 | nsp           | MNR04=100(1005X4)  |         | 1    |     |
| R0214      | 00D2473005944 | RM73B--560JT       |         | 1    |     |
| R0215,0216 | nsp           | MNR04=100(1005X4)  |         | 1    |     |
| R0217      | nsp           | MNR04=330(1005X4)  |         | 1    |     |
| R0218      | nsp           | MNR04=472(1005X4)  |         | 1    |     |
| R0219      | nsp           | MNR04=330(1005X4)  |         | 1    |     |
| R0220      | nsp           | RM73B--330JT +1005 |         | 1    |     |
| R0221-0224 | nsp           | MNR04=330(1005X4)  |         | 1    |     |
| R0225,0226 | nsp           | RM73B--330JT +1005 |         | 1    |     |
| R0227      | nsp           | RM73B--105JT +1608 |         | 1    |     |
| R0228      | nsp           | RM73B--470JT +1608 |         | 1    |     |
| R0229,0230 | nsp           | MNR04=330(1005X4)  |         | 1    |     |
| R0231-0234 | nsp           | RM73B--330JT +1005 |         | 1    |     |
| R0235      | nsp           | MNR04=330(1005X4)  |         | 1    |     |
| R0236      | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
| R0237-0239 | nsp           | MNR04=103(1005X4)  |         | 1    |     |
| R0240      | nsp           | RM73B--472JT+1005  |         | 1    |     |
| R0243,0244 | nsp           | MNR04=472(1005X4)  |         | 1    |     |
| R0302      | nsp           | RM73B--103JT +1005 |         | 1    |     |
| R0303      | nsp           | MNR04=330(1005X4)  |         | 1    |     |
| R0305      | 00D2473008941 | RM73B--102JT       |         | 1    |     |
| R0307-0310 | nsp           | RM73B--472JT+1005  |         | 1    |     |
| R0311      | nsp           | MNR04=472(1005X4)  |         | 1    |     |
| R0312,0313 | nsp           | MNR04=100(1005X4)  |         | 1    |     |
| R0314      | 00D2473005944 | RM73B--560JT       |         | 1    |     |
| R0315,0316 | nsp           | MNR04=100(1005X4)  |         | 1    |     |
| R0317      | nsp           | MNR04=330(1005X4)  |         | 1    |     |
| R0318      | nsp           | MNR04=472(1005X4)  |         | 1    |     |
| R0319      | nsp           | MNR04=330(1005X4)  |         | 1    |     |
| R0320      | nsp           | RM73B--330JT +1005 |         | 1    |     |
| R0321-0324 | nsp           | MNR04=330(1005X4)  |         | 1    |     |
| R0325,0326 | nsp           | RM73B--330JT +1005 |         | 1    |     |
| R0327      | nsp           | RM73B--105JT +1608 |         | 1    |     |

| Ref. No.   | Part No.      | Part Name          | Remarks | Q'ty | New |
|------------|---------------|--------------------|---------|------|-----|
| R0328      | nsp           | RM73B--470JT +1608 |         | 1    |     |
| R0329,0330 | nsp           | MNR04=330(1005X4)  |         | 1    |     |
| R0333,0334 | nsp           | RM73B--330JT +1005 |         | 1    |     |
| R0335,0336 | nsp           | MNR04=330(1005X4)  |         | 1    |     |
| R0337,0338 | nsp           | MNR04=103(1005X4)  |         | 1    |     |
| R0340      | nsp           | RM73B--472JT+1005  |         | 1    |     |
| R0342      | nsp           | MNR04=103(1005X4)  |         | 1    |     |
| R0343,0344 | nsp           | MNR04=472(1005X4)  |         | 1    |     |
| R0507      | nsp           | RM73B--0R0KT +1608 |         | 1    |     |
| R0510,0511 | nsp           | MNR04=330(1005X4)  |         | 1    |     |
| R0512,0513 | nsp           | MNR04=103(1005X4)  |         | 1    |     |
| R0515      | nsp           | MNR04=330(1005X4)  |         | 1    |     |
| R0516,0517 | nsp           | RM73B--330JT +1005 |         | 1    |     |
| R0518      | nsp           | RM73B--103JT +1005 |         | 1    |     |
| R0519      | nsp           | MNR04=103(1005X4)  |         | 1    |     |
| R0520      | nsp           | RM73B--103JT +1005 |         | 1    |     |
| R0521      | nsp           | RM73B--330JT +1005 |         | 1    |     |
| R0522-0524 | nsp           | RM73B--103JT +1005 |         | 1    |     |
| R0525      | nsp           | RM73B--102JT +1608 |         | 1    |     |
| R0526      | nsp           | RM73B--103JT +1005 |         | 1    |     |
| R0527      | nsp           | RM73B--302DT(1608) |         | 1    |     |
| R0529      | nsp           | RM73B--133DT(1608) |         | 1    |     |
| R0530      | nsp           | RM73B--622DT(1608) |         | 1    |     |
| R0531      | nsp           | MNR04=103(1005X4)  |         | 1    |     |
| R0532      | nsp           | RM73B--105JT +1608 |         | 1    |     |
| R0533      | 00D2473008983 | RM73B--152JT       |         | 1    |     |
| R0534      | nsp           | MNR04=330(1005X4)  |         | 1    |     |
| R0537      | nsp           | RM73B--330JT +1005 |         | 1    |     |
| R0538,0539 | nsp           | MNR04=330(1005X4)  |         | 1    |     |
| R0540      | nsp           | RM73B--330JT +1005 |         | 1    |     |
| R0541,0542 | 00D2473003962 | RM73B--100JT       |         | 1    |     |
| R0543      | 00D2473009940 | RM73B--272JT       |         | 1    |     |
| R0544      | 00D2473008983 | RM73B--152JT       |         | 1    |     |
| R0545      | nsp           | MNR04=472(1005X4)  |         | 1    |     |
| R0547-0551 | nsp           | MNR04=330(1005X4)  |         | 1    |     |
| R0552-0555 | nsp           | RM73B--330JT +1005 |         | 1    |     |
| R0556      | nsp           | RM73B--472JT+1005  |         | 1    |     |
| R0557      | nsp           | RM73B--330JT +1005 |         | 1    |     |
| R0558      | nsp           | RM73B--472JT+1005  |         | 1    |     |
| R0559      | nsp           | RM73B--330JT +1005 |         | 1    |     |
| R0563,0564 | nsp           | RM73B--472JT+1005  |         | 1    |     |
| R0565-0568 | nsp           | MNR04=330(1005X4)  |         | 1    |     |
| R0569      | nsp           | RM73B--103JT +1005 |         | 1    |     |
| R0570      | nsp           | RM73B--330JT +1005 |         | 1    |     |
| R0601      | nsp           | RM73B--103JT +1608 |         | 1    |     |
| R0602,0603 | nsp           | RM73B--0R0KT +1608 |         | 1    |     |
| R0604      | nsp           | RM73B--222JT +1608 |         | 1    |     |
| R0611      | nsp           | RM73B--103JT +1005 |         | 1    |     |

|  | Ref. No.   | Part No.      | Part Name          | Remarks | Q'ty | New |
|--|------------|---------------|--------------------|---------|------|-----|
|  | R0612      | nsp           | RM73B--122JT +1005 |         | 1    |     |
|  | R0614,0615 | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R0616      | nsp           | MNR04=473(1005X4)  |         | 1    |     |
|  | R0617,0618 | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R0619      | nsp           | MNR04=473(1005X4)  |         | 1    |     |
|  | R0621      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R0622,0623 | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R0624      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R0625,0626 | nsp           | RM73B--154DT(1608) |         | 1    |     |
|  | R0627      | nsp           | RM73B--155KT +1608 |         | 1    |     |
|  | R0628      | nsp           | RM73B--684JT +1608 |         | 1    |     |
|  | R0629      | nsp           | RM73B--473DT(1608) |         | 1    |     |
|  | R0630      | nsp           | RM73B--304DT(1608) |         | 1    |     |
|  | R0632      | nsp           | RM73B--0R0KT +1608 |         | 1    |     |
|  | R0638      | nsp           | RM73B--473JT+1005  |         | 1    |     |
|  | R0662,0663 | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
|  | R0667      | 00D2473002989 | RM73B--4R7KT       |         | 1    |     |
|  | R0668,0669 | 00D2473003962 | RM73B--100JT       |         | 1    |     |
|  | R0701-0708 | nsp           | RM73B--221JT +1005 |         | 1    |     |
|  | R0715-0734 | nsp           | RM73B--510DT(1608) |         | 1    |     |
|  | R0735      | nsp           | RM73B--622DT(1608) |         | 1    |     |
|  | R0743      | nsp           | RM73B--105JT +1608 |         | 1    |     |
|  | R0744      | nsp           | RM73B--511JT +1608 |         | 1    |     |
|  | R0745      | nsp           | RM73B--101JT +1608 |         | 1    |     |
|  | R0763      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R0765      | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
|  | R0767      | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
|  | R0768      | 00D2473014980 | RM73B--474JT       |         | 1    |     |
|  | R0769      | 00D2473003962 | RM73B--100JT       |         | 1    |     |
|  | R0770      | nsp           | RM73B--154DT(1608) |         | 1    |     |
|  | R0771      | nsp           | RM73B--684JT +1608 |         | 1    |     |
|  | R0772      | nsp           | RM73B--473DT(1608) |         | 1    |     |
|  | R0774      | nsp           | RM73B--822DT(1608) |         | 1    |     |
|  | R0776-0778 | nsp           | RM73B--510DT(1608) |         | 1    |     |
|  | R0779      | nsp           | RM73B--392DT(1608) |         | 1    |     |
|  | R0780      | nsp           | RM73B--510DT(1608) |         | 1    |     |
|  | R0781      | nsp           | RM73B--473JT+1005  |         | 1    |     |
|  | R0783      | nsp           | RM73B--0R0KT +1608 |         | 1    |     |
|  | R0785      | nsp           | RM73B--0R0KT +1608 |         | 1    |     |
|  | R0786      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R0787      | 00D2473008983 | RM73B--152JT       |         | 1    |     |
|  | R0788      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R0789      | nsp           | MNR04=330(1005X4)  |         | 1    |     |
|  | R0790      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R0791      | 00D2473008983 | RM73B--152JT       |         | 1    |     |
|  | R0794-0798 | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R0900,0901 | 00D2473013965 | RM73B--154JT       |         | 1    |     |
|  | R0904      | nsp           | RM73B--473JT+1005  |         | 1    |     |

| Ref. No.                | Part No.      | Part Name            | Remarks | Q'ty | New |
|-------------------------|---------------|----------------------|---------|------|-----|
| R0905                   | nsp           | RM73B--0R0KT+1005    |         | 1    |     |
| R0906                   | nsp           | RM73B--103JT +1005   |         | 1    |     |
| R0907                   | nsp           | RM73B--101JT+1005    |         | 1    |     |
| R0908                   | nsp           | RM73B--222JT +1608   |         | 1    |     |
| R0909                   | 00D2473009966 | RM73B--332JT         |         | 1    |     |
| R0910                   | 00D2473014980 | RM73B--474JT         |         | 1    |     |
| R0911,0912              | nsp           | RM73B--473JT+1005    |         | 1    |     |
| R0914                   | nsp           | RM73B--103JT +1005   |         | 1    |     |
| R0916,0917              | nsp           | RM73B--0R0KT+1005    |         | 1    |     |
| R0920                   | 00D2473008941 | RM73B--102JT         |         | 1    |     |
| R0921,0922              | nsp           | MNR04=5R1(1005X4)    |         | 1    |     |
| R0924                   | nsp           | RM73B--472JT+1005    |         | 1    |     |
| R0925,0926              | nsp           | RM73B--103JT +1005   |         | 1    |     |
| R0930,0931              | nsp           | RM73B--103JT +1005   |         | 1    |     |
| R0936                   | 00D2473009908 | RM73B--182JT         |         | 1    |     |
| R0937                   | nsp           | RM73B--103JT +1005   |         | 1    |     |
| R0938                   | 00D2473009908 | RM73B--182JT         |         | 1    |     |
| R0939                   | nsp           | RM73B--0R0KT+1005    |         | 1    |     |
| R0942                   | nsp           | RM73B--103JT +1005   |         | 1    |     |
| R0944-0947              | nsp           | MNR02=000(1005X2)    |         | 1    |     |
|                         |               |                      |         |      |     |
| <b>CAPACITORS GROUP</b> |               |                      |         |      |     |
| C0001,0002              | nsp           | CK73B1A104KT +1005   |         | 1    |     |
| C0008                   | nsp           | CK73X5R0J106MT(2125) |         | 1    |     |
| C0010                   | nsp           | CK73B1E103KT(1005)   |         | 1    |     |
| C0012                   | nsp           | CK73B1A104KT +1005   |         | 1    |     |
| C0014                   | nsp           | CK73X5R0J106MT(2125) |         | 1    |     |
| C0016                   | nsp           | CK73X5R0J106MT(2125) |         | 1    |     |
| C0018                   | nsp           | CC73CH1H100DT +1005  |         | 1    |     |
| C0020                   | nsp           | CK73B1A104KT +1005   |         | 1    |     |
| C0022                   | nsp           | CK73B1H102KT +1005   |         | 1    |     |
| C0023-0025              | nsp           | CK73B1H102KT +1608   |         | 1    |     |
| C0052                   | nsp           | CK73B0J475KT +1608   |         | 1    |     |
| C0053                   | nsp           | CK73B1A104KT +1005   |         | 1    |     |
| C0054                   | nsp           | CK73B0J475KT +1608   |         | 1    |     |
| C0055                   | nsp           | CK73B1A104KT +1005   |         | 1    |     |
| C0058                   | nsp           | CK73B1H102KT +1005   |         | 1    |     |
| C0059                   | nsp           | CK73B0J475KT +1608   |         | 1    |     |
| C0060                   | nsp           | CK73B1A104KT +1005   |         | 1    |     |
| C0063                   | nsp           | CK73B1H102KT +1005   |         | 1    |     |
| C0069,0070              | nsp           | CK73B1H102KT +1005   |         | 1    |     |
| C0101                   | nsp           | CK73B1H102KT +1005   |         | 1    |     |
| C0102                   | nsp           | CK73B1A104KT +1005   |         | 1    |     |
| C0103                   | nsp           | CK73B1H102KT +1005   |         | 1    |     |
| C0104                   | nsp           | CK73B1A104KT +1005   |         | 1    |     |
| C0105                   | nsp           | CK73B1H102KT +1005   |         | 1    |     |
| C0106                   | nsp           | CK73B1A104KT +1005   |         | 1    |     |
| C0107                   | nsp           | CK73B1H102KT +1005   |         | 1    |     |

|  | Ref. No.   | Part No. | Part Name           | Remarks | Q'ty | New |
|--|------------|----------|---------------------|---------|------|-----|
|  | C0108      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0109      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0110      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0111,0112 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0113      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0114,0115 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0116,0117 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0118      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0119,0120 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0121      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0122      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0123      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0124      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0125      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0126      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0127,0128 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0129      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0130      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0131,0132 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0133      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0134      | nsp      | CK73B1H102KT +1608  |         | 1    |     |
|  | C0135      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0136      | nsp      | CC73CH1H8R0DT +1608 |         | 1    |     |
|  | C0137      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0138      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0139,0140 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0141      | nsp      | CC73CH1H8R0DT +1608 |         | 1    |     |
|  | C0142      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0143,0144 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0145-0147 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0148      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0149      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0150,0151 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0152      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0153      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0154      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0155      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0156      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0157      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0158,0159 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0160      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0161      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0162      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0163,0164 | nsp      | CK73B0J475KT +1608  |         | 1    |     |
|  | C0167,0168 | nsp      | CK73B0J475KT +1608  |         | 1    |     |
|  | C0169-0171 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0172      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0173      | nsp      | CK73B1H102KT +1005  |         | 1    |     |

| Ref. No.   | Part No. | Part Name           | Remarks | Q'ty | New |
|------------|----------|---------------------|---------|------|-----|
| C0174      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0175      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0176      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0177      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0178      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0179-0181 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0182      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0183      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0184-0188 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0189      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0190      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0191      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0192      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0193      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0194      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0195      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0196      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0197      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0198      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0199-0201 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0202      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0203      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0204      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0205      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0206      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0207      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0208      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0209      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0210      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0211,0212 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0213      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0214,0215 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0216,0217 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0218      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0219,0220 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0221      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0222      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0223      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0224      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0225      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0226      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0227,0228 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0229      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0230      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0231,0232 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0233      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0235      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0236      | nsp      | CC73CH1H8R0DT +1608 |         | 1    |     |

|  | Ref. No.   | Part No. | Part Name           | Remarks | Q'ty | New |
|--|------------|----------|---------------------|---------|------|-----|
|  | C0237      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0238      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0239,0240 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0241      | nsp      | CC73CH1H8R0DT +1608 |         | 1    |     |
|  | C0242      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0243,0244 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0245-0247 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0248      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0249      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0250,0251 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0252      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0253      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0254      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0255      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0256      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0257      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0258,0259 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0260      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0261      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0262      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0263,0264 | nsp      | CK73B0J475KT +1608  |         | 1    |     |
|  | C0267,0268 | nsp      | CK73B0J475KT +1608  |         | 1    |     |
|  | C0269-0271 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0272      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0273      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0274      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0275      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0276      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0277      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0278      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0279-0281 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0282      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0283      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0284-0288 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0289      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0290      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0291      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0292      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0293      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0294      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0295      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0296      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0297      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0298      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0299-0301 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0302      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0303      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0304      | nsp      | CK73B1A104KT +1005  |         | 1    |     |



| Ref. No.   | Part No. | Part Name           | Remarks | Q'ty | New |
|------------|----------|---------------------|---------|------|-----|
| C0305      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0306      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0307      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0308      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0309      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0310      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0311,0312 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0313      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0314,0315 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0316,0317 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0318      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0319,0320 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0321      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0322      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0323      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0324      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0325      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0326      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0327,0328 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0329      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0330      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0331,0332 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0333      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0335      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0336      | nsp      | CC73CH1H8R0DT +1608 |         | 1    |     |
| C0337      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0338      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0339,0340 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0341      | nsp      | CC73CH1H8R0DT +1608 |         | 1    |     |
| C0342      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0343,0344 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0345-0347 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0348      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0349      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0350,0351 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0352      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0353      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0354      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0355      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0356      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0357      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0358,0359 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0360      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0361      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
| C0362      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
| C0363,0364 | nsp      | CK73B0J475KT +1608  |         | 1    |     |
| C0367,0368 | nsp      | CK73B0J475KT +1608  |         | 1    |     |
| C0369-0371 | nsp      | CK73B1H102KT +1005  |         | 1    |     |

|  | Ref. No.   | Part No. | Part Name           | Remarks | Q'ty | New |
|--|------------|----------|---------------------|---------|------|-----|
|  | C0372      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0373      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0374      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0375      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0376      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0377      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0378      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0379-0381 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0382      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0383      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0384-0388 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0389      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0390      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0391      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0392      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0393      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0394      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0395      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0396      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0397      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0398      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0399,0400 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0411-0413 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0414      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0415      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0416,0417 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0418      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0441-0443 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0445      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0446      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0447,0448 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0449      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0461-0463 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0464      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0465      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0466,0467 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0468      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0506      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0508,0509 | nsp      | CC73CH1H120JT +1608 |         | 1    |     |
|  | C0512-0515 | nsp      | CK73B0J475KT +1608  |         | 1    |     |
|  | C0516      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0517      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0518      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0519      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0520      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0521      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C0522      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C0523      | nsp      | CK73B1H102KT +1005  |         | 1    |     |

| Ref. No.   | Part No.      | Part Name              | Remarks | Q'ty | New |
|------------|---------------|------------------------|---------|------|-----|
| C0524      | nsp           | CK73B1A104KT +1005     |         | 1    |     |
| C0525      | nsp           | CK73B1H102KT +1005     |         | 1    |     |
| C0526-0531 | nsp           | CK73B1A104KT +1005     |         | 1    |     |
| C0532-0535 | nsp           | CK73B1H102KT +1005     |         | 1    |     |
| C0536      | nsp           | CK73B0J475KT +1608     |         | 1    |     |
| C0539-0542 | nsp           | CK73B0J475KT +1608     |         | 1    |     |
| C0543      | nsp           | CK73B1A104KT +1005     |         | 1    |     |
| C0544      | nsp           | CK73B1H102KT +1005     |         | 1    |     |
| C0545      | nsp           | CK73B1A104KT +1005     |         | 1    |     |
| C0546      | nsp           | CK73B1H102KT +1005     |         | 1    |     |
| C0547-0554 | nsp           | CK73B1A104KT +1005     |         | 1    |     |
| C0555-0558 | nsp           | CK73B1H102KT +1005     |         | 1    |     |
| C0559      | nsp           | CK73B0J475KT +1608     |         | 1    |     |
| C0562      | nsp           | CK73B0J475KT +1608     |         | 1    |     |
| C0565,0566 | nsp           | CK73B1A104KT +1005     |         | 1    |     |
| C0567-0581 | nsp           | CK73B1H102KT +1005     |         | 1    |     |
| C0603      | nsp           | CK73B1E104KT +1608     |         | 1    |     |
| C0604      | 00D2544645903 | CE67C0J221MT(MVA) +REF |         | 1    |     |
| C0609      | nsp           | CC73CH1H100DT +1608    |         | 1    |     |
| C0610-0613 | nsp           | CK73B1A104KT +1005     |         | 1    |     |
| C0614      | nsp           | CK73B1H102KT +1005     |         | 1    |     |
| C0615      | nsp           | CK73B1A104KT +1005     |         | 1    |     |
| C0616      | nsp           | CK73B1H102KT +1005     |         | 1    |     |
| C0617-0620 | nsp           | CK73B1A104KT +1005     |         | 1    |     |
| C0621      | nsp           | CK73B1H102KT +1005     |         | 1    |     |
| C0622      | nsp           | CK73B1A104KT +1005     |         | 1    |     |
| C0625      | nsp           | CK73B0J475KT +1608     |         | 1    |     |
| C0626,0627 | nsp           | CK73B1A104KT +1005     |         | 1    |     |
| C0630-0632 | nsp           | CK73B1A104KT +1005     |         | 1    |     |
| C0633      | nsp           | CC73CH1H150JT +1005    |         | 1    |     |
| C0634      | nsp           | CC73CH1H100DT +1005    |         | 1    |     |
| C0635-0638 | nsp           | CK73X5R0J106MT(2125)   |         | 1    |     |
| C0640,0641 | nsp           | CK73B1A104KT +1005     |         | 1    |     |
| C0644,0645 | nsp           | CK73B1E103KT(1005)     |         | 1    |     |
| C0646      | nsp           | CK73B1A104KT +1005     |         | 1    |     |
| C0647      | nsp           | CK73B1H102KT +1005     |         | 1    |     |
| C0648,0649 | nsp           | CK73X5R0J106MT(2125)   |         | 1    |     |
| C0650      | nsp           | CK73B1H102KT +1005     |         | 1    |     |
| C0653,0654 | nsp           | CK73B1H102KT +1005     |         | 1    |     |
| C0659      | nsp           | CK73B1A104KT +1005     |         | 1    |     |
| C0661      | nsp           | CK73B1A104KT +1005     |         | 1    |     |
| C0664      | nsp           | CK73B1A105KT +1608     |         | 1    |     |
| C0665,0666 | nsp           | CK73B1E104KT +1608     |         | 1    |     |
| C0682-0689 | nsp           | CK73B1H102KT +1608     |         | 1    |     |
| C0701-0704 | nsp           | CK73B1A104KT +1005     |         | 1    |     |
| C0705-0714 | nsp           | CC73CH1H391JT +1005    |         | 1    |     |
| C0715-0722 | nsp           | CK73B1A104KT +1005     |         | 1    |     |
| C0723      | 00D2544645903 | CE67C0J221MT(MVA) +REF |         | 1    |     |

|  | Ref. No.   | Part No.      | Part Name              | Remarks | Q'ty | New |
|--|------------|---------------|------------------------|---------|------|-----|
|  | C0724,0725 | nsp           | CK73B1A104KT +1005     |         | 1    |     |
|  | C0726      | nsp           | CC73CH1H101JT +1005    |         | 1    |     |
|  | C0727      | 00D2544645903 | CE67C0J221MT(MVA) +REF |         | 1    |     |
|  | C0728      | nsp           | CC73CH1H7R0DT +1608    |         | 1    |     |
|  | C0729      | nsp           | CC73CH1H100DT +1608    |         | 1    |     |
|  | C0730      | nsp           | CC73CH1H101JT +1005    |         | 1    |     |
|  | C0731      | nsp           | CK73B1A104KT +1005     |         | 1    |     |
|  | C0733-0736 | nsp           | CK73B1A104KT +1005     |         | 1    |     |
|  | C0737      | nsp           | CK73B1E223KT +1608     |         | 1    |     |
|  | C0738-0741 | nsp           | CK73B1A104KT +1005     |         | 1    |     |
|  | C0742,0743 | nsp           | CC73CH1H101JT +1005    |         | 1    |     |
|  | C0744      | nsp           | CK73B1A104KT +1005     |         | 1    |     |
|  | C0746      | nsp           | CK73B1H102KT +1608     |         | 1    |     |
|  | C0747      | nsp           | CK73B1A104KT +1005     |         | 1    |     |
|  | C0749,0750 | nsp           | CC73CH1H150JT +1608    |         | 1    |     |
|  | C0751      | nsp           | CC73CH1H150JT +1005    |         | 1    |     |
|  | C0752      | nsp           | CK73X5R0J106MT(2125)   |         | 1    |     |
|  | C0753      | nsp           | CK73B0J475KT +1608     |         | 1    |     |
|  | C0754      | nsp           | CK73B1H102KT +1005     |         | 1    |     |
|  | C0755      | nsp           | CK73B0J475KT +1608     |         | 1    |     |
|  | C0756      | nsp           | CK73B1H102KT +1005     |         | 1    |     |
|  | C0757      | nsp           | CK73X5R0J106MT(2125)   |         | 1    |     |
|  | C0758      | nsp           | CK73B1A104KT +1005     |         | 1    |     |
|  | C0759      | nsp           | CK73B1E103KT(1005)     |         | 1    |     |
|  | C0760      | nsp           | CK73X5R0J106MT(2125)   |         | 1    |     |
|  | C0764      | nsp           | CK73B1A104KT +1005     |         | 1    |     |
|  | C0766      | nsp           | CC73CH1H471JT +1608    |         | 1    |     |
|  | C0767      | nsp           | CK73B1A105KT +1608     |         | 1    |     |
|  | C0768      | nsp           | CK73B1E103KT(1005)     |         | 1    |     |
|  | C0769      | nsp           | CK73B0J475KT +1608     |         | 1    |     |
|  | C0775      | nsp           | CK73B1H102KT +1608     |         | 1    |     |
|  | C0900      | nsp           | CK73B1A104KT +1005     |         | 1    |     |
|  | C0902      | nsp           | CK73B1E104KT +1608     |         | 1    |     |
|  | C0903      | 00D2544645903 | CE67C0J221MT(MVA) +REF |         | 1    |     |
|  | C0904      | nsp           | CK73B1A104KT +1005     |         | 1    |     |
|  | C0906      | nsp           | CC73CH1H220JT +1005    |         | 1    |     |
|  | C0910      | nsp           | CK73B1A104KT +1005     |         | 1    |     |
|  | C0911      | nsp           | CC73CH1H220JT +1005    |         | 1    |     |
|  | C0915,0916 | nsp           | CK73B1E103KT(1005)     |         | 1    |     |
|  | C0919,0920 | nsp           | CK73B1E103KT(1005)     |         | 1    |     |
|  | C0923      | nsp           | CK73B1A104KT +1005     |         | 1    |     |
|  | C0926      | nsp           | CK73B1E103KT(1005)     |         | 1    |     |
|  | C0928      | nsp           | CK73B1A104KT +1005     |         | 1    |     |
|  | C0930      | nsp           | CK73B1A104KT +1005     |         | 1    |     |
|  | C0931      | nsp           | CK73X5R0J106MT(2125)   |         | 1    |     |
|  | C0932      | nsp           | CK73B1A104KT +1005     |         | 1    |     |
|  | C0933      | nsp           | CK73X5R0J106MT(2125)   |         | 1    |     |
|  | C0936      | nsp           | CK73B1A104KT +1005     |         | 1    |     |

| Ref. No.                  | Part No.      | Part Name                      | Remarks | Q'ty | New |
|---------------------------|---------------|--------------------------------|---------|------|-----|
| C0937                     | nsp           | CK73X5R0J106MT(2125)           |         | 1    |     |
| C0938                     | nsp           | CK73B1A104KT +1005             |         | 1    |     |
| C0939                     | nsp           | CK73X5R0J106MT(2125)           |         | 1    |     |
| C0940                     | nsp           | CK73B1A104KT +1005             |         | 1    |     |
| C0941                     | nsp           | CK73X5R0J106MT(2125)           |         | 1    |     |
| C0942                     | nsp           | CK73B1A104KT +1005             |         | 1    |     |
| C0946                     | 00D2544645903 | CE67C0J221MT(MVA) +REF         |         | 1    |     |
|                           |               |                                |         |      |     |
| <b>OTHERS PARTS GROUP</b> |               |                                |         |      |     |
| B0601                     | nsp           | PWB BRACKET (USB)              |         | 1    |     |
| K0900                     | 64401015560AS | HDMI CONNECTOR(A111989-W-15-T) |         | 1    |     |
| L0003                     | nsp           | E.FIL(BLM21PG221SN1)+2125      |         | 1    |     |
| L0007,0008                | nsp           | E.FIL(BLM21PG221SN1)+2125      |         | 1    |     |
| L0052,0053                | nsp           | E.FIL(BLM21PG221SN1)+2125      |         | 1    |     |
| L0501-0503                | nsp           | E.FIL(BLM21PG221SN1)+2125      |         | 1    |     |
| L0601                     | 113410007504S | DLW21SN181SQ2L                 |         | 1    |     |
| L0602,0603                | nsp           | E.FIL(BLM21PG221SN1)+2125      |         | 1    |     |
| L0605                     | nsp           | E.FIL(BLM21PG221SN1)+2125      |         | 1    |     |
| L0607                     | 00D2350130903 | CHIP EMIFIL(11A121) +1608      |         | 1    |     |
| L0608-0610                | nsp           | RM73B--0R0KT +2125             |         | 1    |     |
| L0611                     | nsp           | E.FIL(BLM21PG221SN1)+2125      |         | 1    |     |
| L0613                     | nsp           | E.FIL(BLM21PG221SN1)+2125      |         | 1    |     |
| L0701-0708                | 113410001506S | DLW21SN900HQ2L                 |         | 1    |     |
| L0709-0711                | nsp           | E.FIL(BLM21PG221SN1)+2125      |         | 1    |     |
| L0712,0713                | 113410001506S | DLW21SN900HQ2L                 |         | 1    |     |
| L0714                     | nsp           | E.FIL(BLM21PG221SN1)+2125      |         | 1    |     |
| L0716-0718                | nsp           | E.FIL(BLM21PG221SN1)+2125      |         | 1    |     |
| L0900                     | 113410007504S | DLW21SN181SQ2L                 |         | 1    |     |
| L0901                     | nsp           | E.FIL(BLM21PG221SN1)+2125      |         | 1    |     |
| L0906-0908                | nsp           | E.FIL(BLM21PG221SN1)+2125      |         | 1    |     |
| L0910-0912                | nsp           | E.FIL(BLM21PG221SN1)+2125      |         | 1    |     |
| N0051                     | 64501008150AS | 100P IMSA-9832S-100Y903        |         | 1    |     |
| N0501                     | 00D2051257978 | 7P FFC BASE (9610SD)           |         | 1    |     |
| N0601                     | 64401015000AS | USB CONNECTOR(UAR80-4K5J00)    |         | 1    |     |
| N0603                     | 00MYJ0701855Y | S5B-PH-SM4-TB (LF)(SN)         |         | 1    |     |
| N0605                     | 645010056090S | 33P PLUG(C125Z1)               |         | 1    |     |
| N0606                     | 645010057062S | 23P SOCKET(C125Z2)             |         | 1    |     |
| N0607                     | 645010057093S | 33P SOCKET(C125Z2)             |         | 1    |     |
| N0608                     | 645010056090S | 33P PLUG(C125Z1)               |         | 1    |     |
| N0701                     | 64401015110AS | 1X4 RJ45 CONNECTOR(640-007BC)  |         | 1    |     |
| N0702                     | 645010057048S | 19P SOCKET(C125Z2)             |         | 1    |     |
| N0900                     | 00D2051381103 | USB CONNECTOR                  |         | 1    |     |
| N0901                     | 00MYJ06006250 | B5B-PH-K-S (LF)(SN)            |         | 1    |     |
| N0902                     | 00MYJ06006270 | B7B-PH-K-S (LF)(SN)            |         | 1    |     |
| N0903                     | 00D2051260020 | 25P FFC BASE(9610S)T           |         | 1    |     |
| X0101                     | 14181006850AS | TXC 7V(25MHZ)                  |         | 1    |     |
| X0201                     | 14181006850AS | TXC 7V(25MHZ)                  |         | 1    |     |
| X0301                     | 14181006850AS | TXC 7V(25MHZ)                  |         | 1    |     |

| Ref. No. | Part No.      | Part Name          | Remarks | Q'ty | New |
|----------|---------------|--------------------|---------|------|-----|
| X0503    | 14181006750AS | TXC 7V(24MHZ)      |         | 1    |     |
| X0701    | 14181006850AS | TXC 7V(25MHZ)      |         | 1    |     |
| Z3801    | nsp           | HDMI USB BRACKET   |         | 1    |     |
| Z9999    | nsp           | SHIELD PLATE (DSP) |         | 1    |     |
|          |               |                    |         |      |     |

## DIGITAL UNIT ASSY

| Ref. No.                    | Part No.      | Part Name                | Remarks | Q'ty | New |
|-----------------------------|---------------|--------------------------|---------|------|-----|
| <b>SEMICONDUCTORS GROUP</b> |               |                          |         |      |     |
| D1113                       | 00D2760750902 | RB521S-30TE61 +REF       |         | 1    |     |
| D1429-1431                  | 00D2760794900 | KDS160-RTK/P             |         | 1    |     |
| D1701                       | 00D2760794900 | KDS160-RTK/P             |         | 1    |     |
| D1702,1703                  | 201310001503S | KDS160E                  |         | 1    |     |
| D1704                       | 00D2760794900 | KDS160-RTK/P             |         | 1    |     |
| D1705-1708                  | 201310001503S | KDS160E                  |         | 1    |     |
| D1712                       | 00D2760846900 | RB060M-30                |         | 1    |     |
| D1901-1903                  | 00D2760794900 | KDS160-RTK/P             |         | 1    |     |
| Q1103-1105                  | 00MBA2000399Y | KRC402E-RTK KEC          |         | 1    |     |
| Q1106,1107                  | 00D2690192902 | KRC102S-RTK/P (10K-10K)  |         | 1    |     |
| Q1108                       | 00D2750110905 | HN1K02FU-TE85L           |         | 1    |     |
| Q1401-1404                  | 00D2710312905 | KTA1504S-GR-RTK/P        |         | 1    |     |
| Q1405,1406                  | 213850009503S | 2SC4617EBTLR             |         | 1    |     |
| Q1407                       | 00D2740195901 | 2SD2114KT196 +C          |         | 1    |     |
| Q1409                       | 00D2750110905 | HN1K02FU-TE85L           |         | 1    |     |
| Q1701                       | 00MBA2000199Y | KRC404E-RTK KEC STANDARD |         | 1    |     |
| Q1702,1703                  | 21535001250AS | KRA302E-RTK/P            |         | 1    |     |
| Q1704                       | 00MBA2000199Y | KRC404E-RTK KEC STANDARD |         | 1    |     |
| Q1705,1706                  | 21535001250AS | KRA302E-RTK/P            |         | 1    |     |
| Q1707                       | 00MBA2000199Y | KRC404E-RTK KEC STANDARD |         | 1    |     |
| Q1708-1710                  | 21535001250AS | KRA302E-RTK/P            |         | 1    |     |
| Q1711                       | 00MBA2000399Y | KRC402E-RTK KEC          |         | 1    |     |
| Q1712                       | 00MBA2000199Y | KRC404E-RTK KEC STANDARD |         | 1    |     |
| Q1713,1714                  | 21535001250AS | KRA302E-RTK/P            |         | 1    |     |
| Q1715                       | 00MBA2000199Y | KRC404E-RTK KEC STANDARD |         | 1    |     |
| Q1716,1717                  | 21535001250AS | KRA302E-RTK/P            |         | 1    |     |
| Q1718                       | 211850008504S | 2SA2018TL                |         | 1    |     |
| Q1719                       | 00MBA2000199Y | KRC404E-RTK KEC STANDARD |         | 1    |     |
| Q1720                       | 211850008504S | 2SA2018TL                |         | 1    |     |
| Q1721,1722                  | 00MBA2000199Y | KRC404E-RTK KEC STANDARD |         | 1    |     |
| Q1723                       | 00D2757001907 | FDC608PZ                 |         | 1    |     |
| Q1724                       | 00MBA2000199Y | KRC404E-RTK KEC STANDARD |         | 1    |     |
| Q1725                       | 211850008504S | 2SA2018TL                |         | 1    |     |
| Q1726                       | 21535001250AS | KRA302E-RTK/P            |         | 1    |     |
| Q1727                       | 00MBA2000199Y | KRC404E-RTK KEC STANDARD |         | 1    |     |
| Q1901,1902                  | 00MBA2000399Y | KRC402E-RTK KEC          |         | 1    |     |
| Q1903                       | 211850008504S | 2SA2018TL                |         | 1    |     |
| Q1906                       | 213850009503S | 2SC4617EBTLR             |         | 1    |     |
| Q1907                       | 00MBA2000199Y | KRC404E-RTK KEC STANDARD |         | 1    |     |
| Q1908                       | 211850008504S | 2SA2018TL                |         | 1    |     |
| Q1909                       | 00D2757001907 | FDC608PZ                 |         | 1    |     |
| Q1910                       | 00MBA2000399Y | KRC402E-RTK KEC          |         | 1    |     |
| Q2006,2007                  | 00D2690192902 | KRC102S-RTK/P (10K-10K)  |         | 1    |     |
| Q2101,2102                  | 213850009503S | 2SC4617EBTLR             |         | 1    |     |
| Q2103                       | 00MBA2000399Y | KRC402E-RTK KEC          |         | 1    |     |
| Q2104                       | 21535001250AS | KRA302E-RTK/P            |         | 1    |     |
| Q2105,2106                  | 00MBA2000399Y | KRC402E-RTK KEC          |         | 1    |     |
| U0101,0102                  | 262010006704S | JSR1165                  |         | 1    |     |
| U0103,0104                  | 00D2623449004 | LC89057W-VF4A            |         | 1    |     |

|                        | Ref. No.   | Part No.      | Part Name                                             | Remarks | Q'ty | New |
|------------------------|------------|---------------|-------------------------------------------------------|---------|------|-----|
|                        | U0106      | 23681012050AS | PCM5100PWR                                            |         | 1    |     |
|                        | U0108      | 00D2623077900 | TC74VHCU04FT +REF                                     |         | 1    |     |
|                        | U0141      | 236810086505S | AK5358BET                                             |         | 1    |     |
|                        | U0142      | 00D2631047906 | NJM2115M-TE1 +C                                       |         | 1    |     |
|                        | U0301      | 23681011960AS | 5M570ZF256C5N                                         |         | 1    |     |
|                        | U0302      | 23171011751AS | NJM2845DL1-18                                         |         | 1    |     |
|                        | U0303      | 236810083506S | CS2100-10-CZZR                                        |         | 1    |     |
|                        | U0304      | 236810012504S | FCXO-05B(24.576MHz)                                   |         | 1    |     |
|                        | U0305      | 141810003503S | FCXO-05 (30.00MHz)                                    |         | 1    |     |
|                        | U0401      | 231310009508S | PQ033DNA1ZPH                                          |         | 1    |     |
|                        | U0403-0409 | 236810081500S | PCM1795                                               |         | 1    |     |
|                        | U0410,0411 | 00D2623555901 | SA5532ADR                                             |         | 1    |     |
|                        | U0412      | 00D2630896909 | NJM2068MD-TE1 +C                                      |         | 1    |     |
|                        | U0413,0414 | 00D2623555901 | SA5532ADR                                             |         | 1    |     |
|                        | U0415      | 00D2630896909 | NJM2068MD-TE1 +C                                      |         | 1    |     |
|                        | U0416,0417 | 00D2623555901 | SA5532ADR                                             |         | 1    |     |
|                        | U0418      | 00D2630896909 | NJM2068MD-TE1 +C                                      |         | 1    |     |
|                        | U0419      | 00D2623555901 | SA5532ADR                                             |         | 1    |     |
|                        | U0421      | 00D2630896909 | NJM2068MD-TE1 +C                                      |         | 1    |     |
|                        | U0422,0423 | 00D2623555901 | SA5532ADR                                             |         | 1    |     |
|                        | U0424      | 00D2630896909 | NJM2068MD-TE1 +C                                      |         | 1    |     |
|                        | U0425,0426 | 00D2623555901 | SA5532ADR                                             |         | 1    |     |
|                        | U0427      | 00D2630896909 | NJM2068MD-TE1 +C                                      |         | 1    |     |
|                        | U0428,0429 | 00D2623555901 | SA5532ADR                                             |         | 1    |     |
|                        | U0430      | 00D2630896909 | NJM2068MD-TE1 +C                                      |         | 1    |     |
|                        | U1001      | 23681012860AS | SII9575CTUC                                           |         | 1    |     |
|                        | U1101      | 23381000450AS | TC74VHC4051AFT                                        |         | 1    |     |
|                        | U1102      | 23681012760AS | ADV7850KBCZ-5                                         |         | 1    |     |
|                        | U1103      | 00D2623436907 | TC74VHC244FT                                          |         | 1    |     |
|                        | U1104      | 23171011751AS | NJM2845DL1-18                                         |         | 1    |     |
|                        | U1351      | 23981007960AS | K4T51163QJ-BCE7                                       |         | 1    |     |
|                        | U1401      | 23681012960AS | ADV8003-1                                             |         | 1    |     |
|                        | U1404      | 8R2481014600S | GUI ROM SUB ASSY(AV8801/U/N/F)<br>(MX25L12835EMI-10G) | U,N,F   | 1    |     |
|                        | U1404      | 8R2481014601S | GUI ROM SUB ASSY(AV8801K)<br>(MX25L12835EMI-10G)      | K       | 1    |     |
|                        | U1601,1602 | 23981007960AS | K4T51163QJ-BCE7                                       |         | 1    |     |
|                        | U1701-1703 | 231810089509S | EX3AV                                                 |         | 1    |     |
|                        | U1705      | 231810089509S | EX3AV                                                 |         | 1    |     |
|                        | U1707      | 23681013550AS | NCP380HMuJAATBG                                       |         | 1    |     |
|                        | U1708      | 231810089509S | EX3AV                                                 |         | 1    |     |
|                        | U1709      | 231810071508S | PQ012ENB1ZPH                                          |         | 1    |     |
|                        | U1901      | 231810089509S | EX3AV                                                 |         | 1    |     |
|                        | U1902      | 00D2623436907 | TC74VHC244FT                                          |         | 1    |     |
|                        | U1903      | 23171011750AS | NJM2845DL1-33                                         |         | 1    |     |
|                        | U1904      | 23981007450AS | PST8448(SC-82AB)                                      |         | 1    |     |
|                        | U1905      | 231310009508S | PQ033DNA1ZPH                                          |         | 1    |     |
|                        | U2001      | 8R2431012400S | MAIN CPU SUB ASSY(AV8801)<br>(R5F56108VNFP)           |         | 1    |     |
|                        | U2002      | 24681007550AS | R1EX24256BSAS0A                                       |         | 1    |     |
|                        | U2101      | 8R2431012500S | SUB CPU SUB ASSY(AV8801)<br>(R5F3650NNFB)             |         | 1    |     |
|                        | U2104      | 00D2623436907 | TC74VHC244FT                                          |         | 1    |     |
|                        |            |               |                                                       |         |      |     |
| <b>RESISTORS GROUP</b> |            |               |                                                       |         |      |     |
|                        | R0103,0104 | nsp           | RM73B--330JT +1005                                    |         | 1    |     |
|                        | R0105,0106 | 00D2473005973 | RM73B--750JT                                          |         | 1    |     |
|                        | R0109,0110 | 00D2473007968 | RM73B--471JT                                          |         | 1    |     |
|                        | R0115,0116 | nsp           | RM73B--473JT+1005                                     |         | 1    |     |
|                        | R0117,0118 | nsp           | RM73B--334JT +1005                                    |         | 1    |     |



|  | Ref. No.   | Part No.      | Part Name                 | Remarks | Q'ty | New |
|--|------------|---------------|---------------------------|---------|------|-----|
|  | R0121,0122 | nsp           | RM73B--330JT +1005        |         | 1    |     |
|  | R0129      | nsp           | RM73B--330JT +1005        |         | 1    |     |
|  | R0130      | 00D2473009966 | RM73B--332JT              |         | 1    |     |
|  | R0131      | 00D2473008941 | RM73B--102JT              |         | 1    |     |
|  | R0133      | nsp           | RM73B--221JT +1005        |         | 1    |     |
|  | R0134      | nsp           | RM73B--330JT +1005        |         | 1    |     |
|  | R0136      | 00D2473008941 | RM73B--102JT              |         | 1    |     |
|  | R0137      | nsp           | RM73B--0R0KT+1005         |         | 1    |     |
|  | R0138      | nsp           | RM73B--221JT +1005        |         | 1    |     |
|  | R0139      | 00D2473008941 | RM73B--102JT              |         | 1    |     |
|  | R0141      | nsp           | RM73B--330JT +1005        |         | 1    |     |
|  | R0144-0146 | nsp           | RM73B--101JT +1608        |         | 1    |     |
|  | R0147,0148 | nsp           | RM73B--332JT +1608        |         | 1    |     |
|  | R0149      | nsp           | RM73B--101JT +1608        |         | 1    |     |
|  | R0150      | nsp           | RM73B--472JT (1608) +1608 |         | 1    |     |
|  | R0151,0152 | nsp           | RM73B--683JT +1608        |         | 1    |     |
|  | R0153      | nsp           | RM73B--472JT (1608) +1608 |         | 1    |     |
|  | R0154,0155 | nsp           | RM73B--474JT +1608        |         | 1    |     |
|  | R0168,0169 | nsp           | RM73B--103JT +1005        |         | 1    |     |
|  | R0171      | nsp           | RM73B--103JT +1005        |         | 1    |     |
|  | R0174,0175 | nsp           | RM73B--471JT +1608        |         | 1    |     |
|  | R0178      | nsp           | RM73B--0R0KT+1005         |         | 1    |     |
|  | R0188      | nsp           | MNR04=103(1005X4)         |         | 1    |     |
|  | R0189,0190 | nsp           | MNR04=330(1005X4)         |         | 1    |     |
|  | R0191      | nsp           | MNR04=103(1005X4)         |         | 1    |     |
|  | R0192      | nsp           | MNR04=330(1005X4)         |         | 1    |     |
|  | R0301      | nsp           | PRB3T4=0R0(1005X4)        |         | 1    |     |
|  | R0302      | nsp           | MNR04=101(1005X4)         |         | 1    |     |
|  | R0304      | nsp           | PRB3T4=0R0(1005X4)        |         | 1    |     |
|  | R0305,0306 | nsp           | MNR04=330(1005X4)         |         | 1    |     |
|  | R0307-0313 | nsp           | RM73B--330JT +1005        |         | 1    |     |
|  | R0314-0323 | nsp           | MNR04=101(1005X4)         |         | 1    |     |
|  | R0324,0325 | nsp           | RM73B--330JT +1005        |         | 1    |     |
|  | R0326-0329 | nsp           | MNR04=101(1005X4)         |         | 1    |     |
|  | R0330,0331 | nsp           | RM73B--330JT +1005        |         | 1    |     |
|  | R0332-0334 | nsp           | MNR04=101(1005X4)         |         | 1    |     |
|  | R0335      | nsp           | RM73B--330JT +1005        |         | 1    |     |
|  | R0337-0340 | nsp           | RM73B--101JT+1005         |         | 1    |     |
|  | R0341      | 00D2473008941 | RM73B--102JT              |         | 1    |     |
|  | R0342,0343 | nsp           | RM73B--103JT +1005        |         | 1    |     |
|  | R0344-0346 | nsp           | RM73B--330JT +1005        |         | 1    |     |
|  | R0348      | nsp           | RM73B--103JT +1005        |         | 1    |     |
|  | R0351      | nsp           | RM73B--103JT +1005        |         | 1    |     |
|  | R0353      | nsp           | RM73B--103JT +1005        |         | 1    |     |
|  | R0354      | nsp           | RM73B--330JT +1005        |         | 1    |     |
|  | R0355      | nsp           | RM73B--103JT +1005        |         | 1    |     |
|  | R0356-0359 | nsp           | RM73B--0R0KT+1005         |         | 1    |     |
|  | R0360      | nsp           | RM73B--330JT +1005        |         | 1    |     |
|  | R0361      | nsp           | RM73B--103JT +1005        |         | 1    |     |
|  | R0362      | nsp           | MNR04=330(1005X4)         |         | 1    |     |
|  | R0367-0370 | nsp           | RM73B--330JT +1005        |         | 1    |     |
|  | R0401      | nsp           | RM73B--0R0KT +2125        |         | 1    |     |
|  | R0403      | 00D2473008941 | RM73B--102JT              |         | 1    |     |
|  | R0404,0405 | nsp           | RM73B--103JT +1608        |         | 1    |     |
|  | R0406      | 00D2473008941 | RM73B--102JT              |         | 1    |     |
|  | R0407,0408 | nsp           | RM73B--103JT +1608        |         | 1    |     |
|  | R0409      | 00D2473008941 | RM73B--102JT              |         | 1    |     |
|  | R0410,0411 | nsp           | RM73B--103JT +1608        |         | 1    |     |
|  | R0412      | 00D2473008941 | RM73B--102JT              |         | 1    |     |
|  | R0413,0414 | nsp           | RM73B--103JT +1608        |         | 1    |     |

|  | Ref. No.   | Part No.      | Part Name          | Remarks | Q'ty | New |
|--|------------|---------------|--------------------|---------|------|-----|
|  | R0415      | 00D2473008941 | RM73B--102JT       |         | 1    |     |
|  | R0416,0417 | nsp           | RM73B--103JT +1608 |         | 1    |     |
|  | R0418      | 00D2473008941 | RM73B--102JT       |         | 1    |     |
|  | R0419,0420 | nsp           | RM73B--103JT +1608 |         | 1    |     |
|  | R0421      | 00D2473008941 | RM73B--102JT       |         | 1    |     |
|  | R0422,0423 | nsp           | RM73B--103JT +1608 |         | 1    |     |
|  | R0424-0435 | nsp           | RM73B--821JT +2125 |         | 1    |     |
|  | R0436,0437 | nsp           | RM73B--152JT +2125 |         | 1    |     |
|  | R0438-0441 | nsp           | RM73B--122JT +2125 |         | 1    |     |
|  | R0443,0444 | nsp           | RM73B--152JT +2125 |         | 1    |     |
|  | R0446,0447 | nsp           | RM73B--101JT +2125 |         | 1    |     |
|  | R0448,0449 | nsp           | RM73B--821JT +2125 |         | 1    |     |
|  | R0450,0451 | nsp           | RM73B--821JT +1608 |         | 1    |     |
|  | R0452-0459 | nsp           | RM73B--821JT +2125 |         | 1    |     |
|  | R0460      | nsp           | RM73B--152JT +2125 |         | 1    |     |
|  | R0461      | nsp           | RM73B--272JT +2125 |         | 1    |     |
|  | R0462-0465 | nsp           | RM73B--122JT +2125 |         | 1    |     |
|  | R0467      | nsp           | RM73B--152JT +2125 |         | 1    |     |
|  | R0468      | nsp           | RM73B--272JT +2125 |         | 1    |     |
|  | R0470,0471 | nsp           | RM73B--101JT +2125 |         | 1    |     |
|  | R0472-0483 | nsp           | RM73B--821JT +2125 |         | 1    |     |
|  | R0484,0485 | nsp           | RM73B--222JT +2125 |         | 1    |     |
|  | R0486-0489 | nsp           | RM73B--122JT +2125 |         | 1    |     |
|  | R0490      | nsp           | RM73B--393JT +2125 |         | 1    |     |
|  | R0491,0492 | nsp           | RM73B--222JT +2125 |         | 1    |     |
|  | R0493      | nsp           | RM73B--393JT +2125 |         | 1    |     |
|  | R0494,0495 | nsp           | RM73B--101JT +2125 |         | 1    |     |
|  | R0496,0497 | nsp           | RM73B--821JT +1608 |         | 1    |     |
|  | R0500,0501 | nsp           | RM73B--821JT +1608 |         | 1    |     |
|  | R0504,0505 | nsp           | RM73B--821JT +1608 |         | 1    |     |
|  | R0508      | nsp           | RM73B--272JT +1608 |         | 1    |     |
|  | R0510,0511 | nsp           | RM73B--122JT +1608 |         | 1    |     |
|  | R0515      | nsp           | RM73B--272JT +1608 |         | 1    |     |
|  | R0518      | nsp           | RM73B--101JT +1608 |         | 1    |     |
|  | R0520-0531 | nsp           | RM73B--821JT +1608 |         | 1    |     |
|  | R0532,0533 | nsp           | RM73B--152JT +1608 |         | 1    |     |
|  | R0534-0537 | nsp           | RM73B--122JT +1608 |         | 1    |     |
|  | R0539,0540 | nsp           | RM73B--152JT +1608 |         | 1    |     |
|  | R0542,0543 | nsp           | RM73B--101JT +1608 |         | 1    |     |
|  | R0544-0555 | nsp           | RM73B--821JT +1608 |         | 1    |     |
|  | R0556,0557 | nsp           | RM73B--152JT +1608 |         | 1    |     |
|  | R0558-0561 | nsp           | RM73B--122JT +1608 |         | 1    |     |
|  | R0563,0564 | nsp           | RM73B--152JT +1608 |         | 1    |     |
|  | R0566,0567 | nsp           | RM73B--101JT +1608 |         | 1    |     |
|  | R0568-0579 | nsp           | RM73B--821JT +1608 |         | 1    |     |
|  | R0580,0581 | nsp           | RM73B--152JT +1608 |         | 1    |     |
|  | R0582-0585 | nsp           | RM73B--122JT +1608 |         | 1    |     |
|  | R0587,0588 | nsp           | RM73B--152JT +1608 |         | 1    |     |
|  | R0590,0591 | nsp           | RM73B--101JT +1608 |         | 1    |     |
|  | R1002,1003 | nsp           | RM73B--473JT+1005  |         | 1    |     |
|  | R1004      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R1005      | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
|  | R1008      | 00D2473003962 | RM73B--100JT       |         | 1    |     |
|  | R1010,1011 | nsp           | RM73B--473JT+1005  |         | 1    |     |
|  | R1012      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R1013      | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
|  | R1016      | 00D2473003962 | RM73B--100JT       |         | 1    |     |
|  | R1018,1019 | nsp           | RM73B--473JT+1005  |         | 1    |     |
|  | R1020      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R1021      | nsp           | RM73B--0R0KT+1005  |         | 1    |     |

|  | Ref. No.   | Part No.      | Part Name          | Remarks | Q'ty | New |
|--|------------|---------------|--------------------|---------|------|-----|
|  | R1024      | 00D2473003962 | RM73B--100JT       |         | 1    |     |
|  | R1026      | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
|  | R1029,1030 | nsp           | RM73B--473JT+1005  |         | 1    |     |
|  | R1031      | 00D2473003962 | RM73B--100JT       |         | 1    |     |
|  | R1032      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R1034      | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
|  | R1037,1038 | nsp           | RM73B--473JT+1005  |         | 1    |     |
|  | R1039      | 00D2473003962 | RM73B--100JT       |         | 1    |     |
|  | R1040      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R1042      | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
|  | R1045,1046 | nsp           | RM73B--473JT+1005  |         | 1    |     |
|  | R1047      | 00D2473003962 | RM73B--100JT       |         | 1    |     |
|  | R1048      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R1060      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R1062      | 00D2473008941 | RM73B--102JT       |         | 1    |     |
|  | R1063-1065 | 00D2473003962 | RM73B--100JT       |         | 1    |     |
|  | R1066-1069 | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R1070      | nsp           | RM73B--100JT +1608 |         | 1    |     |
|  | R1072,1073 | 00D2473003962 | RM73B--100JT       |         | 1    |     |
|  | R1075      | nsp           | RM73B--154JT +1608 |         | 1    |     |
|  | R1076      | nsp           | RM73B--330JT +1005 |         | 1    |     |
|  | R1077-1082 | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
|  | R1083,1084 | 00D2473009908 | RM73B--182JT       |         | 1    |     |
|  | R1085      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R1086      | nsp           | MNR04=472(1005X4)  |         | 1    |     |
|  | R1087      | nsp           | MNR04=330(1005X4)  |         | 1    |     |
|  | R1088-1094 | nsp           | MNR04=473(1005X4)  |         | 1    |     |
|  | R1101-1104 | nsp           | RM73B--471DT(1608) |         | 1    |     |
|  | R1105,1106 | nsp           | RM73B--240DT(1608) |         | 1    |     |
|  | R1107      | nsp           | RM73B--510DT(1608) |         | 1    |     |
|  | R1108-1111 | nsp           | RM73B--151DT(1608) |         | 1    |     |
|  | R1112      | nsp           | RM73B--510DT(1608) |         | 1    |     |
|  | R1113-1116 | nsp           | RM73B--331DT(1608) |         | 1    |     |
|  | R1117,1118 | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
|  | R1119      | 00D2473008909 | RM73B--681JT       |         | 1    |     |
|  | R1124      | 00D2473008909 | RM73B--681JT       |         | 1    |     |
|  | R1126      | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
|  | R1133      | nsp           | RM73B--473JT+1005  |         | 1    |     |
|  | R1146      | 00D2473008909 | RM73B--681JT       |         | 1    |     |
|  | R1147      | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
|  | R1148      | 00D2473009924 | RM73B--222JT       |         | 1    |     |
|  | R1149      | 00D2473009966 | RM73B--332JT       |         | 1    |     |
|  | R1150-1152 | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R1153,1154 | 00D2473009924 | RM73B--222JT       |         | 1    |     |
|  | R1155      | 00D2473008941 | RM73B--102JT       |         | 1    |     |
|  | R1156-1158 | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R1159-1161 | 00D2473005944 | RM73B--560JT       |         | 1    |     |
|  | R1163-1165 | nsp           | RM73B--470JT +1005 |         | 1    |     |
|  | R1166      | 00D2473009924 | RM73B--222JT       |         | 1    |     |
|  | R1168-1170 | nsp           | RM73B--473JT+1005  |         | 1    |     |
|  | R1172      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R1174      | nsp           | RM73B--471DT(1608) |         | 1    |     |
|  | R1176,1177 | nsp           | RM73B--473JT+1005  |         | 1    |     |
|  | R1181-1184 | nsp           | MNR04=100(1005X4)  |         | 1    |     |
|  | R1185,1186 | nsp           | MNR04=330(1005X4)  |         | 1    |     |
|  | R1187      | nsp           | MNR04=472(1005X4)  |         | 1    |     |
|  | R1188-1197 | nsp           | MNR04=470(1005X4)  |         | 1    |     |
|  | R1198,1199 | nsp           | MNR04=472(1005X4)  |         | 1    |     |
|  | R1200-1202 | nsp           | MNR04=473(1005X4)  |         | 1    |     |
|  | R1203      | nsp           | RM73B--472JT+1005  |         | 1    |     |

|  | Ref. No.   | Part No.      | Part Name          | Remarks | Q'ty | New |
|--|------------|---------------|--------------------|---------|------|-----|
|  | R1204,1205 | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R1363-1366 | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R1367,1368 | nsp           | RM73B--102DT(1608) |         | 1    |     |
|  | R1401      | 00D2473008941 | RM73B--102JT       |         | 1    |     |
|  | R1402      | nsp           | RM73B--330JT +1005 |         | 1    |     |
|  | R1404      | nsp           | RM73B--301DT(1608) |         | 1    |     |
|  | R1405      | 00D2473008941 | RM73B--102JT       |         | 1    |     |
|  | R1406      | nsp           | RM73B--330JT +1005 |         | 1    |     |
|  | R1408      | nsp           | RM73B--301DT(1608) |         | 1    |     |
|  | R1409      | 00D2473008941 | RM73B--102JT       |         | 1    |     |
|  | R1410      | nsp           | RM73B--330JT +1005 |         | 1    |     |
|  | R1412      | nsp           | RM73B--301DT(1608) |         | 1    |     |
|  | R1413      | 00D2473008941 | RM73B--102JT       |         | 1    |     |
|  | R1414      | nsp           | RM73B--330JT +1005 |         | 1    |     |
|  | R1416      | nsp           | RM73B--301DT(1608) |         | 1    |     |
|  | R1417,1418 | 00D2473007913 | RM73B--301JT       |         | 1    |     |
|  | R1419,1420 | 00D2473005944 | RM73B--560JT       |         | 1    |     |
|  | R1423      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R1424-1429 | nsp           | RM73B--470JT +1005 |         | 1    |     |
|  | R1431,1432 | nsp           | RM73B--470JT +1005 |         | 1    |     |
|  | R1433      | 00D2473008941 | RM73B--102JT       |         | 1    |     |
|  | R1434,1435 | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R1436      | nsp           | RM73B--0R0KT +2125 |         | 1    |     |
|  | R1438      | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
|  | R1439,1440 | nsp           | RM73B--102DT(1608) |         | 1    |     |
|  | R1441,1442 | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R1443      | nsp           | RM73B--471DT(1608) |         | 1    |     |
|  | R1445      | nsp           | RM73B--471DT(1608) |         | 1    |     |
|  | R1446      | nsp           | RM73B--222DT(1608) |         | 1    |     |
|  | R1447      | nsp           | RM73B--333JT +1608 |         | 1    |     |
|  | R1450      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R1452      | nsp           | RM73B--132DT(1608) |         | 1    |     |
|  | R1453      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R1454      | nsp           | RM73B--272DT(1608) |         | 1    |     |
|  | R1455      | nsp           | RM73B--181DT(1608) |         | 1    |     |
|  | R1456      | nsp           | RM73B--272DT(1608) |         | 1    |     |
|  | R1457      | nsp           | RM73B--181DT(1608) |         | 1    |     |
|  | R1459      | nsp           | RM73B--392DT(1608) |         | 1    |     |
|  | R1460      | nsp           | RM73B--221DT(1608) |         | 1    |     |
|  | R1461      | nsp           | RM73B--392DT(1608) |         | 1    |     |
|  | R1462      | nsp           | RM73B--330JT +1005 |         | 1    |     |
|  | R1463      | nsp           | RM73B--221DT(1608) |         | 1    |     |
|  | R1464,1465 | nsp           | RM73B--330JT +1005 |         | 1    |     |
|  | R1475-1479 | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
|  | R1482      | nsp           | RM73B--330JT +1005 |         | 1    |     |
|  | R1483-1486 | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R1487-1491 | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
|  | R1492      | 00D2473009908 | RM73B--182JT       |         | 1    |     |
|  | R1493,1494 | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
|  | R1495      | 00D2473009908 | RM73B--182JT       |         | 1    |     |
|  | R1496,1497 | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
|  | R1498      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R1499,1500 | nsp           | RM73B--510DT(1608) |         | 1    |     |
|  | R1501,1502 | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
|  | R1503      | 00D2473009908 | RM73B--182JT       |         | 1    |     |
|  | R1504,1505 | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
|  | R1506      | 00D2473009908 | RM73B--182JT       |         | 1    |     |
|  | R1507,1508 | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
|  | R1509      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R1510,1511 | nsp           | RM73B--510DT(1608) |         | 1    |     |

|  | Ref. No.   | Part No.      | Part Name          | Remarks | Q'ty | New |
|--|------------|---------------|--------------------|---------|------|-----|
|  | R1526      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R1527      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R1530      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R1531      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R1532      | 00D2473014906 | RM73B--224JT       |         | 1    |     |
|  | R1534      | 00D2473011983 | RM73B--273JT       |         | 1    |     |
|  | R1535      | 00D2473008967 | RM73B--122JT +1005 |         | 1    |     |
|  | R1536      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R1537      | 00D2473013923 | RM73B--104JT       |         | 1    |     |
|  | R1538      | 00D2473009966 | RM73B--332JT       |         | 1    |     |
|  | R1545      | nsp           | MNR04=103(1005X4)  |         | 1    |     |
|  | R1546-1560 | nsp           | MNR04=470(1005X4)  |         | 1    |     |
|  | R1561-1563 | nsp           | MNR04=472(1005X4)  |         | 1    |     |
|  | R1564-1566 | nsp           | MNR04=100(1005X4)  |         | 1    |     |
|  | R1615,1616 | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R1617,1618 | nsp           | RM73B--102DT(1608) |         | 1    |     |
|  | R1701,1702 | 00D2473013923 | RM73B--104JT       |         | 1    |     |
|  | R1703-1706 | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R1707      | 00D2473009966 | RM73B--332JT       |         | 1    |     |
|  | R1708      | nsp           | RM73B--473JT+1005  |         | 1    |     |
|  | R1711      | nsp           | RM73B--154DT(1608) |         | 1    |     |
|  | R1712      | nsp           | RM73B--473DT(1608) |         | 1    |     |
|  | R1713      | nsp           | RM73B--684JT +1608 |         | 1    |     |
|  | R1717      | nsp           | RM73B--154DT(1608) |         | 1    |     |
|  | R1718      | nsp           | RM73B--124DT(1608) |         | 1    |     |
|  | R1719      | nsp           | RM73B--105JT +1608 |         | 1    |     |
|  | R1720      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R1721      | 00D2473009966 | RM73B--332JT       |         | 1    |     |
|  | R1722,1723 | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R1727      | nsp           | RM73B--154DT(1608) |         | 1    |     |
|  | R1728      | nsp           | RM73B--124DT(1608) |         | 1    |     |
|  | R1729      | nsp           | RM73B--824JT +1608 |         | 1    |     |
|  | R1736      | nsp           | RM73B--473JT+1005  |         | 1    |     |
|  | R1739      | nsp           | RM73B--154DT(1608) |         | 1    |     |
|  | R1740      | nsp           | RM73B--224DT(1608) |         | 1    |     |
|  | R1741      | nsp           | RM73B--225KT +1608 |         | 1    |     |
|  | R1742      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R1743      | 00D2473009966 | RM73B--332JT       |         | 1    |     |
|  | R1747      | nsp           | RM73B--473JT+1005  |         | 1    |     |
|  | R1749      | nsp           | RM73B--153JT +1608 |         | 1    |     |
|  | R1753      | nsp           | RM73B--154DT(1608) |         | 1    |     |
|  | R1754      | nsp           | RM73B--473DT(1608) |         | 1    |     |
|  | R1755      | nsp           | RM73B--684JT +1608 |         | 1    |     |
|  | R1756      | nsp           | RM73B--0R0KT +2125 |         | 1    |     |
|  | R1757      | nsp           | RM73B--0R0KT+1005  |         | 1    |     |
|  | R1758      | nsp           | RM73B--473JT+1005  |         | 1    |     |
|  | R1805-1811 | nsp           | RM73B--105KT +1005 |         | 1    |     |
|  | R1812      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R1813-1819 | nsp           | RM73B--101JT+1005  |         | 1    |     |
|  | R1901      | nsp           | RM73B--473JT+1005  |         | 1    |     |
|  | R1904      | nsp           | RM73B--154DT(1608) |         | 1    |     |
|  | R1905      | nsp           | RM73B--473DT(1608) |         | 1    |     |
|  | R1906      | nsp           | RM73B--684JT +1608 |         | 1    |     |
|  | R1907      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R1910      | nsp           | RM73B--330JT +1005 |         | 1    |     |
|  | R1911      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R1912      | 00D2473009966 | RM73B--332JT       |         | 1    |     |
|  | R1915      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|  | R1916      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|  | R1917      | nsp           | RM73B--473JT+1005  |         | 1    |     |

|                         | Ref. No.   | Part No.      | Part Name          | Remarks | Q'ty | New |
|-------------------------|------------|---------------|--------------------|---------|------|-----|
|                         | R1918      | 00D2473011967 | RM73B--223JT       |         | 1    |     |
|                         | R1919      | 00D2473013923 | RM73B--104JT       |         | 1    |     |
|                         | R1920      | nsp           | RM73B--101JT+1005  |         | 1    |     |
|                         | R1921      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|                         | R1922      | 00D2473009966 | RM73B--332JT       |         | 1    |     |
|                         | R1923      | 00D2473008941 | RM73B--102JT       |         | 1    |     |
|                         | R1924      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|                         | R2005      | nsp           | MNR04=103(1005X4)  |         | 1    |     |
|                         | R2006      | nsp           | RM73B--0R0KT +1608 | F       | 1    |     |
|                         | R2008      | nsp           | MNR04=103(1005X4)  |         | 1    |     |
|                         | R2009      | nsp           | RM73B--0R0KT +1608 | N       | 1    |     |
|                         | R2010      | nsp           | RM73B--0R0KT +1608 | U       | 1    |     |
|                         | R2011      | nsp           | RM73B--330JT +1005 |         | 1    |     |
|                         | R2012      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|                         | R2014      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|                         | R2015      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|                         | R2016,2017 | nsp           | RM73B--330JT +1005 |         | 1    |     |
|                         | R2018      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|                         | R2020      | nsp           | RM73B--330JT +1005 |         | 1    |     |
|                         | R2021      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|                         | R2022,2023 | nsp           | RM73B--330JT +1005 |         | 1    |     |
|                         | R2024      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|                         | R2025,2026 | nsp           | RM73B--472JT+1005  |         | 1    |     |
|                         | R2027-2036 | nsp           | RM73B--330JT +1005 |         | 1    |     |
|                         | R2038      | nsp           | RM73B--103JT +1608 |         | 1    |     |
|                         | R2042-2044 | nsp           | RM73B--472JT+1005  |         | 1    |     |
|                         | R2045,2046 | nsp           | RM73B--0R0KT +1608 |         | 1    |     |
|                         | R2047      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|                         | R2050,2051 | nsp           | MNR04=330(1005X4)  |         | 1    |     |
|                         | R2052      | nsp           | MNR04=472(1005X4)  |         | 1    |     |
|                         | R2053-2055 | nsp           | MNR04=330(1005X4)  |         | 1    |     |
|                         | R2056-2058 | 00D2473008941 | RM73B--102JT       |         | 1    |     |
|                         | R2059      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|                         | R2101-2104 | nsp           | RM73B--330JT +1005 |         | 1    |     |
|                         | R2106      | nsp           | RM73B--105JT +1608 |         | 1    |     |
|                         | R2107      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|                         | R2108-2110 | nsp           | RM73B--330JT +1005 |         | 1    |     |
|                         | R2111      | nsp           | RM73B--103JT +1005 |         | 1    |     |
|                         | R2112-2114 | nsp           | RM73B--330JT +1005 |         | 1    |     |
|                         | R2115,2116 | 00D2473003962 | RM73B--100JT       |         | 1    |     |
|                         | R2117      | nsp           | RM73B--330JT +1005 |         | 1    |     |
|                         | R2118      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|                         | R2119-2122 | nsp           | RM73B--330JT +1005 |         | 1    |     |
|                         | R2123,2124 | 00D2473003962 | RM73B--100JT       |         | 1    |     |
|                         | R2132      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|                         | R2133      | nsp           | RM73B--105KT +1005 |         | 1    |     |
|                         | R2134-2136 | nsp           | RM73B--472JT+1005  |         | 1    |     |
|                         | R2137      | nsp           | RM73B--473JT+1005  |         | 1    |     |
|                         | R2138      | nsp           | RM73B--105KT +1005 |         | 1    |     |
|                         | R2139      | 00D2473014906 | RM73B--224JT       |         | 1    |     |
|                         | R2140      | 00D2473013923 | RM73B--104JT       |         | 1    |     |
|                         | R2142      | 00D2473013965 | RM73B--154JT       |         | 1    |     |
|                         | R2143,2144 | nsp           | RM73B--472JT+1005  |         | 1    |     |
|                         | R2146      | 00D2473009966 | RM73B--332JT       |         | 1    |     |
|                         | R2147      | nsp           | RM73B--472JT+1005  |         | 1    |     |
|                         | R2148,2149 | nsp           | MNR04=330(1005X4)  |         | 1    |     |
|                         | R2150-2152 | nsp           | RM73B--103JT +1005 |         | 1    |     |
|                         |            |               |                    |         |      |     |
| <b>CAPACITORS GROUP</b> |            |               |                    |         |      |     |
|                         | C0001-0020 | nsp           | CK73B1H102KT +1005 |         | 1    |     |

| Ref. No.   | Part No.      | Part Name               | Remarks | Q'ty | New |
|------------|---------------|-------------------------|---------|------|-----|
| C0101,0102 | nsp           | CK73B1A104KT +1005      |         | 1    |     |
| C0103,0104 | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0105,0106 | nsp           | CK73B1E103KT(1005)      |         | 1    |     |
| C0107      | nsp           | CK73B1A104KT +1005      |         | 1    |     |
| C0108      | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0112,0113 | nsp           | CK73B1A104KT +1005      |         | 1    |     |
| C0114,0115 | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0116,0117 | nsp           | CK73B1A104KT +1005      |         | 1    |     |
| C0118,0119 | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0120,0121 | nsp           | CK73B1A104KT +1005      |         | 1    |     |
| C0122-0124 | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0125,0126 | nsp           | CK73B1A104KT +1005      |         | 1    |     |
| C0127      | nsp           | CK73B1E223KT +1608      |         | 1    |     |
| C0128      | nsp           | CK73B1E104KT +1608      |         | 1    |     |
| C0129,0130 | nsp           | CK73B1A104KT +1005      |         | 1    |     |
| C0131,0132 | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0133,0134 | nsp           | CK73B1A104KT +1005      |         | 1    |     |
| C0135,0136 | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0137,0138 | nsp           | CK73B1A104KT +1005      |         | 1    |     |
| C0139-0141 | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0142,0143 | nsp           | CK73B1A104KT +1005      |         | 1    |     |
| C0144      | nsp           | CK73B1E223KT +1608      |         | 1    |     |
| C0145      | nsp           | CK73B1E104KT +1608      |         | 1    |     |
| C0146      | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0148,0149 | nsp           | CK73B1A105KT +1608      |         | 1    |     |
| C0150,0151 | 00D2544657904 | CE67C1C100MT(RV2)       |         | 1    |     |
| C0152,0153 | nsp           | CC73CH1H103JT +2125     |         | 1    |     |
| C0154,0155 | nsp           | CC73CH1H471JT +1608     |         | 1    |     |
| C0156      | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0157,0158 | 00D2544657904 | CE67C1C100MT(RV2)       |         | 1    |     |
| C0159      | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0162-0164 | nsp           | CK73B1E104KT +1608      |         | 1    |     |
| C0166      | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0167      | nsp           | CK73B1E104KT +1608      |         | 1    |     |
| C0168,0169 | nsp           | CK73B1A225KT 1608       |         | 1    |     |
| C0170      | nsp           | CK73B1E104KT +1608      |         | 1    |     |
| C0171,0172 | nsp           | CC73CH1H222JT +1608     |         | 1    |     |
| C0178      | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0301      | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0302      | nsp           | CK73B1A104KT +1005      |         | 1    |     |
| C0307-0316 | nsp           | CK73B1A104KT +1005      |         | 1    |     |
| C0317-0322 | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0327      | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0328      | nsp           | CK73B1A104KT +1005      |         | 1    |     |
| C0329      | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0330      | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0331      | nsp           | CK73B1A104KT +1005      |         | 1    |     |
| C0332      | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0333      | nsp           | CC73CH1H101JT +1005     |         | 1    |     |
| C0334      | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0335      | nsp           | CK73B1A104KT +1005      |         | 1    |     |
| C0336,0337 | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0338      | nsp           | CK73B1A104KT +1005      |         | 1    |     |
| C0401      | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0404      | nsp           | CK73B1E104KT +1608      |         | 1    |     |
| C0405      | nsp           | CK73X5R0J106MT(2125)    |         | 1    |     |
| C0411-0418 | nsp           | CK73B1A104KT +1005      |         | 1    |     |
| C0419-0425 | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0426      | 00D2544655922 | CE67C0J470MT (RV2) +REF |         | 1    |     |
| C0427      | nsp           | CC73CH1H101JT +1005     |         | 1    |     |



| Ref. No.   | Part No.      | Part Name               | Remarks | Q'ty | New |
|------------|---------------|-------------------------|---------|------|-----|
| C0428      | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0429      | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0430      | 00D2544655922 | CE67C0J470MT (RV2) +REF |         | 1    |     |
| C0431-0433 | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0434      | nsp           | CC73CH1H101JT +1005     |         | 1    |     |
| C0435      | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0436      | 00D2544655922 | CE67C0J470MT (RV2) +REF |         | 1    |     |
| C0437      | nsp           | CC73CH1H101JT +1005     |         | 1    |     |
| C0438      | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0439      | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0440,0441 | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0442      | nsp           | CC73CH1H101JT +1005     |         | 1    |     |
| C0443,0444 | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0445      | 00D2544655922 | CE67C0J470MT (RV2) +REF |         | 1    |     |
| C0446      | nsp           | CC73CH1H101JT +1005     |         | 1    |     |
| C0447      | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0448      | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0449-0451 | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0452      | nsp           | CC73CH1H101JT +1005     |         | 1    |     |
| C0453      | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0454      | 00D2544655922 | CE67C0J470MT (RV2) +REF |         | 1    |     |
| C0455      | nsp           | CC73CH1H101JT +1005     |         | 1    |     |
| C0456      | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0457      | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0458,0459 | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0460      | nsp           | CC73CH1H101JT +1005     |         | 1    |     |
| C0461      | 00D2544655922 | CE67C0J470MT (RV2) +REF |         | 1    |     |
| C0462      | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0463      | nsp           | CC73CH1H101JT +1005     |         | 1    |     |
| C0464      | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0465      | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0466,0467 | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0468      | nsp           | CC73CH1H101JT +1005     |         | 1    |     |
| C0469      | 00D2544655922 | CE67C0J470MT (RV2) +REF |         | 1    |     |
| C0470      | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0471      | nsp           | CC73CH1H101JT +1005     |         | 1    |     |
| C0472      | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0473      | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0474,0475 | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0476      | nsp           | CC73CH1H101JT +1005     |         | 1    |     |
| C0477      | 00D2544655922 | CE67C0J470MT (RV2) +REF |         | 1    |     |
| C0478      | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0479      | nsp           | CC73CH1H101JT +1005     |         | 1    |     |
| C0480      | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0481      | nsp           | CK73B1H102KT +1005      |         | 1    |     |
| C0482,0483 | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0484      | nsp           | CC73CH1H101JT +1005     |         | 1    |     |
| C0485      | 00D2544655922 | CE67C0J470MT (RV2) +REF |         | 1    |     |
| C0486      | nsp           | CK73B0J475KT +1608      |         | 1    |     |
| C0487-0490 | nsp           | CC73CH1H222JT +1608     |         | 1    |     |
| C0491-0494 | 133050086541S | CQ93M2A152JT(PEF)       |         | 1    |     |
| C0495-0498 | 13305014941AS | CQ93M2A821JT(PEF)       |         | 1    |     |
| C0499,0500 | 00D2544657904 | CE67C1C100MT(RV2)       |         | 1    |     |
| C0501-0504 | nsp           | CC73CH1H222JT +1608     |         | 1    |     |
| C0505      | 133050086541S | CQ93M2A152JT(PEF)       |         | 1    |     |
| C0506      | 133050086565S | CQ93M2A222JT(PEF)       |         | 1    |     |
| C0507      | 133050086541S | CQ93M2A152JT(PEF)       |         | 1    |     |
| C0508      | 133050086565S | CQ93M2A222JT(PEF)       |         | 1    |     |
| C0509      | 13305014941AS | CQ93M2A821JT(PEF)       |         | 1    |     |
| C0510      | 133050086565S | CQ93M2A222JT(PEF)       |         | 1    |     |

|  | Ref. No.   | Part No.      | Part Name            | Remarks | Q'ty | New |
|--|------------|---------------|----------------------|---------|------|-----|
|  | C0511      | 13305014941AS | CQ93M2A821JT(PEF)    |         | 1    |     |
|  | C0512      | 133050086565S | CQ93M2A222JT(PEF)    |         | 1    |     |
|  | C0517,0518 | 00D2544657904 | CE67C1C100MT(RV2)    |         | 1    |     |
|  | C0519-0522 | nsp           | CC73CH1H222JT +1608  |         | 1    |     |
|  | C0523-0526 | 133050086541S | CQ93M2A152JT(PEF)    |         | 1    |     |
|  | C0527-0530 | 13305014940AS | CQ93M2A681JT(PEF)    |         | 1    |     |
|  | C0531,0532 | 00D2544657904 | CE67C1C100MT(RV2)    |         | 1    |     |
|  | C0533,0534 | nsp           | CC73CH1H222JT +1608  |         | 1    |     |
|  | C0537      | nsp           | CC73CH1H222JT +1608  |         | 1    |     |
|  | C0539      | nsp           | CC73CH1H222JT +1608  |         | 1    |     |
|  | C0541      | nsp           | CC73CH1H222JT +1608  |         | 1    |     |
|  | C0542      | nsp           | RM73B--0R0KT +1608   |         | 1    |     |
|  | C0543      | nsp           | CC73CH1H222JT +1608  |         | 1    |     |
|  | C0544      | nsp           | RM73B--0R0KT +1608   |         | 1    |     |
|  | C0545,0546 | nsp           | CK73B1A105KT +1608   |         | 1    |     |
|  | C0547-0550 | nsp           | CC73CH1H222JT +1608  |         | 1    |     |
|  | C0551-0554 | nsp           | CC73CH1H152JT +1608  |         | 1    |     |
|  | C0555-0558 | nsp           | CC73CH1H821JT +1608  |         | 1    |     |
|  | C0559,0560 | nsp           | CK73B1A105KT +1608   |         | 1    |     |
|  | C0561-0564 | nsp           | CC73CH1H222JT +1608  |         | 1    |     |
|  | C0565-0568 | nsp           | CC73CH1H152JT +1608  |         | 1    |     |
|  | C0569-0572 | nsp           | CC73CH1H821JT +1608  |         | 1    |     |
|  | C0573,0574 | nsp           | CK73B1A105KT +1608   |         | 1    |     |
|  | C0575-0578 | nsp           | CC73CH1H222JT +1608  |         | 1    |     |
|  | C0579-0582 | nsp           | CC73CH1H152JT +1608  |         | 1    |     |
|  | C0583-0586 | nsp           | CC73CH1H821JT +1608  |         | 1    |     |
|  | C0587,0588 | nsp           | CK73B1A105KT +1608   |         | 1    |     |
|  | C1001-1006 | nsp           | CK73B1A105KT +1608   |         | 1    |     |
|  | C1007      | nsp           | CK73B1H102KT +1005   |         | 1    |     |
|  | C1008      | nsp           | CK73X5R0J106MT(2125) |         | 1    |     |
|  | C1009      | nsp           | CK73B1A104KT +1005   |         | 1    |     |
|  | C1011-1013 | nsp           | CK73B1A104KT +1005   |         | 1    |     |
|  | C1014-1016 | nsp           | CK73X5R0J106MT(2125) |         | 1    |     |
|  | C1019,1020 | nsp           | CK73X5R0J106MT(2125) |         | 1    |     |
|  | C1023-1033 | nsp           | CK73B1A104KT +1005   |         | 1    |     |
|  | C1037-1042 | nsp           | CK73X5R0J106MT(2125) |         | 1    |     |
|  | C1043-1049 | nsp           | CK73B1A104KT +1005   |         | 1    |     |
|  | C1050      | nsp           | CK73X5R0J106MT(2125) |         | 1    |     |
|  | C1051,1052 | nsp           | CC73CH1H8R0DT +1608  |         | 1    |     |
|  | C1053      | nsp           | CK73B1A104KT +1005   |         | 1    |     |
|  | C1101-1103 | nsp           | CK73B1A104KT +1005   |         | 1    |     |
|  | C1104      | nsp           | CK73B1H102KT +1005   |         | 1    |     |
|  | C1105-1111 | nsp           | CK73B1A104KT +1005   |         | 1    |     |
|  | C1112      | nsp           | CK73B1H102KT +1005   |         | 1    |     |
|  | C1113,1114 | nsp           | CK73B1A104KT +1005   |         | 1    |     |
|  | C1137-1147 | nsp           | CK73B1H102KT +1005   |         | 1    |     |
|  | C1148      | nsp           | CK73B0J475KT +1608   |         | 1    |     |
|  | C1149-1152 | nsp           | CK73B1A104KT +1005   |         | 1    |     |
|  | C1153-1156 | nsp           | CK73B1H102KT +1005   |         | 1    |     |
|  | C1157      | nsp           | CK73B0J475KT +1608   |         | 1    |     |
|  | C1158      | nsp           | CK73B1A104KT +1005   |         | 1    |     |
|  | C1159      | nsp           | CK73B1H102KT +1005   |         | 1    |     |
|  | C1160      | nsp           | CK73B0J475KT +1608   |         | 1    |     |
|  | C1161      | nsp           | CK73B1H102KT +1005   |         | 1    |     |
|  | C1162-1172 | nsp           | CK73B1A104KT +1005   |         | 1    |     |
|  | C1173,1174 | nsp           | CK73B1H102KT +1005   |         | 1    |     |
|  | C1183      | nsp           | CK73B0J475KT +1608   |         | 1    |     |
|  | C1184,1185 | nsp           | CK73B1A104KT +1005   |         | 1    |     |
|  | C1186,1187 | nsp           | CK73B1H102KT +1005   |         | 1    |     |
|  | C1188      | nsp           | CK73B0J475KT +1608   |         | 1    |     |

|  | Ref. No.   | Part No. | Part Name           | Remarks | Q'ty | New |
|--|------------|----------|---------------------|---------|------|-----|
|  | C1190,1191 | nsp      | CK73B0J475KT +1608  |         | 1    |     |
|  | C1192-1200 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1217-1219 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C1220      | nsp      | CK73B0J475KT +1608  |         | 1    |     |
|  | C1221-1226 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1229-1231 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1232-1235 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C1243      | nsp      | CK73B0J475KT +1608  |         | 1    |     |
|  | C1245-1252 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1253-1260 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C1261      | nsp      | CK73B0J475KT +1608  |         | 1    |     |
|  | C1262-1267 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1268-1273 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C1274      | nsp      | CK73B0J475KT +1608  |         | 1    |     |
|  | C1275      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1276      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C1277      | nsp      | CK73B0J475KT +1608  |         | 1    |     |
|  | C1278-1280 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1281-1283 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C1284      | nsp      | CK73B0J475KT +1608  |         | 1    |     |
|  | C1285      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1286      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C1287      | nsp      | CK73B0J475KT +1608  |         | 1    |     |
|  | C1289      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1290      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C1291      | nsp      | CK73B0J475KT +1608  |         | 1    |     |
|  | C1301      | nsp      | CK73B1E104KT +1608  |         | 1    |     |
|  | C1312      | nsp      | CC73CH1H8R0DT +1608 |         | 1    |     |
|  | C1313      | nsp      | CC73CH1H100DT +1608 |         | 1    |     |
|  | C1314      | nsp      | CK73B1A105KT +1608  |         | 1    |     |
|  | C1315,1316 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1351-1366 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1367-1374 | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C1375      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1377      | nsp      | CK73B1A105KT +1608  |         | 1    |     |
|  | C1378      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1379      | nsp      | CK73B0J475KT +1608  |         | 1    |     |
|  | C1401-1404 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1408      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1410      | nsp      | CC73CH1H330JT +1005 |         | 1    |     |
|  | C1411      | nsp      | CK73B1H102KT +1005  |         | 1    |     |
|  | C1413,1414 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1415      | nsp      | CK73B0J475KT +1608  |         | 1    |     |
|  | C1416-1425 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1426-1429 | nsp      | CK73B1E103KT(1005)  |         | 1    |     |
|  | C1430      | nsp      | CK73B0J475KT +1608  |         | 1    |     |
|  | C1431-1436 | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1437-1440 | nsp      | CK73B1E103KT(1005)  |         | 1    |     |
|  | C1441      | nsp      | CK73B0J475KT +1608  |         | 1    |     |
|  | C1442      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1443      | nsp      | CK73B1E103KT(1005)  |         | 1    |     |
|  | C1444      | nsp      | CK73B0J475KT +1608  |         | 1    |     |
|  | C1445      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1446,1447 | nsp      | CK73B0J475KT +1608  |         | 1    |     |
|  | C1450      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1451      | nsp      | CK73B1E103KT(1005)  |         | 1    |     |
|  | C1452      | nsp      | CK73B0J475KT +1608  |         | 1    |     |
|  | C1453      | nsp      | CK73B1A104KT +1005  |         | 1    |     |
|  | C1454      | nsp      | CK73B1E103KT(1005)  |         | 1    |     |
|  | C1455      | nsp      | CK73B0J475KT +1608  |         | 1    |     |

| Ref. No.   | Part No. | Part Name            | Remarks | Q'ty | New |
|------------|----------|----------------------|---------|------|-----|
| C1456      | nsp      | CK73B1A104KT +1005   |         | 1    |     |
| C1457      | nsp      | CK73B1E103KT(1005)   |         | 1    |     |
| C1458      | nsp      | CK73B1A104KT +1005   |         | 1    |     |
| C1459      | nsp      | CK73B1E103KT(1005)   |         | 1    |     |
| C1460      | nsp      | CK73B0J475KT +1608   |         | 1    |     |
| C1461,1462 | nsp      | CK73B1A104KT +1005   |         | 1    |     |
| C1463      | nsp      | CK73B1E103KT(1005)   |         | 1    |     |
| C1465      | nsp      | CK73B0J475KT +1608   |         | 1    |     |
| C1466      | nsp      | CK73B1A104KT +1005   |         | 1    |     |
| C1467      | nsp      | CK73B1E103KT(1005)   |         | 1    |     |
| C1469      | nsp      | CK73B0J475KT +1608   |         | 1    |     |
| C1470      | nsp      | CK73B1A104KT +1005   |         | 1    |     |
| C1471      | nsp      | CK73B1E103KT(1005)   |         | 1    |     |
| C1472      | nsp      | CK73B1A104KT +1005   |         | 1    |     |
| C1473      | nsp      | CK73B1E103KT(1005)   |         | 1    |     |
| C1475      | nsp      | CK73B0J475KT +1608   |         | 1    |     |
| C1476      | nsp      | CK73B1A104KT +1005   |         | 1    |     |
| C1477      | nsp      | CK73B1E103KT(1005)   |         | 1    |     |
| C1478      | nsp      | CK73B1A104KT +1005   |         | 1    |     |
| C1479      | nsp      | CK73B1E103KT(1005)   |         | 1    |     |
| C1482      | nsp      | CK73B0J475KT +1608   |         | 1    |     |
| C1483      | nsp      | CK73B1A104KT +1005   |         | 1    |     |
| C1484,1485 | nsp      | CK73B1E103KT(1005)   |         | 1    |     |
| C1486      | nsp      | CK73B0J475KT +1608   |         | 1    |     |
| C1487-1490 | nsp      | CK73B1A104KT +1005   |         | 1    |     |
| C1491-1493 | nsp      | CK73B1E103KT(1005)   |         | 1    |     |
| C1494      | nsp      | CK73B0J475KT +1608   |         | 1    |     |
| C1495,1496 | nsp      | CK73B1A104KT +1005   |         | 1    |     |
| C1497-1499 | nsp      | CK73B1E103KT(1005)   |         | 1    |     |
| C1500      | nsp      | CK73B0J475KT +1608   |         | 1    |     |
| C1501,1502 | nsp      | CK73B1A104KT +1005   |         | 1    |     |
| C1503      | nsp      | CK73B1E103KT(1005)   |         | 1    |     |
| C1506      | nsp      | CK73B1A104KT +1005   |         | 1    |     |
| C1508,1509 | nsp      | CK73B1H222KT +1005   |         | 1    |     |
| C1510      | nsp      | CK73B1A154KT +1608   |         | 1    |     |
| C1511      | nsp      | CK73B1H123KT +1608   |         | 1    |     |
| C1512      | nsp      | CK73B1A154KT +1608   |         | 1    |     |
| C1513      | nsp      | CK73B1H123KT +1608   |         | 1    |     |
| C1514      | nsp      | CC73CH1H8R0DT +1608  |         | 1    |     |
| C1515      | nsp      | CC73CH1H100DT +1608  |         | 1    |     |
| C1518      | nsp      | CK73B1A104KT +1005   |         | 1    |     |
| C1519      | nsp      | CK73B1H102KT +1005   |         | 1    |     |
| C1520,1521 | nsp      | CK73B1A105KT +1608   |         | 1    |     |
| C1523,1524 | nsp      | CK73B1A105KT +1608   |         | 1    |     |
| C1528-1534 | nsp      | CK73B1A104KT +1005   |         | 1    |     |
| C1535-1538 | nsp      | CK73X7U0G107MT(3225) |         | 1    |     |
| C1601      | nsp      | CK73X5R0J106MT(2125) |         | 1    |     |
| C1602-1617 | nsp      | CK73B1A104KT +1005   |         | 1    |     |
| C1618-1625 | nsp      | CK73B1H102KT +1005   |         | 1    |     |
| C1626      | nsp      | CK73X5R0J106MT(2125) |         | 1    |     |
| C1627-1642 | nsp      | CK73B1A104KT +1005   |         | 1    |     |
| C1643-1650 | nsp      | CK73B1H102KT +1005   |         | 1    |     |
| C1651      | nsp      | CK73B1A104KT +1005   |         | 1    |     |
| C1653      | nsp      | CK73B1A105KT +1608   |         | 1    |     |
| C1701,1702 | nsp      | CK73B1A104KT +1005   |         | 1    |     |
| C1705      | nsp      | CK73X5R0J106MT(2125) |         | 1    |     |
| C1706      | nsp      | CK73B1E103KT(1005)   |         | 1    |     |
| C1707      | nsp      | CK73B1A104KT +1005   |         | 1    |     |
| C1708,1709 | nsp      | CK73X5R0J106MT(2125) |         | 1    |     |
| C1710      | nsp      | CC73CH1H150JT +1005  |         | 1    |     |

| Ref. No.   | Part No.      | Part Name                | Remarks | Q'ty | New |
|------------|---------------|--------------------------|---------|------|-----|
| C1711      | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1712      | nsp           | CK73B1H102KT +1005       |         | 1    |     |
| C1713      | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1716      | nsp           | CK73X5R0J106MT(2125)     |         | 1    |     |
| C1717      | nsp           | CK73B1E103KT(1005)       |         | 1    |     |
| C1718      | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1719,1720 | nsp           | CK73X5R0J106MT(2125)     |         | 1    |     |
| C1721      | nsp           | CC73CH1H100DT +1005      |         | 1    |     |
| C1722      | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1723      | nsp           | CK73B1H102KT +1005       |         | 1    |     |
| C1724-1727 | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1730      | nsp           | CK73X5R0J106MT(2125)     |         | 1    |     |
| C1731      | nsp           | CK73B1E103KT(1005)       |         | 1    |     |
| C1732      | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1733,1734 | nsp           | CK73X5R0J106MT(2125)     |         | 1    |     |
| C1735      | nsp           | CC73CH1H100DT +1005      |         | 1    |     |
| C1736      | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1737      | nsp           | CK73B1H102KT +1005       |         | 1    |     |
| C1749      | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1752      | nsp           | CK73X5R0J106MT(2125)     |         | 1    |     |
| C1753      | nsp           | CK73B1E103KT(1005)       |         | 1    |     |
| C1754      | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1755,1756 | nsp           | CK73X5R0J106MT(2125)     |         | 1    |     |
| C1757      | nsp           | CC73CH1H100DT +1005      |         | 1    |     |
| C1758      | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1759      | nsp           | CK73B1H102KT +1005       |         | 1    |     |
| C1760      | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1765,1766 | nsp           | CK73B1A105KT +1608       |         | 1    |     |
| C1767      | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1770      | nsp           | CK73X5R0J106MT(2125)     |         | 1    |     |
| C1771      | nsp           | CK73B1E103KT(1005)       |         | 1    |     |
| C1772      | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1773,1774 | nsp           | CK73X5R0J106MT(2125)     |         | 1    |     |
| C1775      | nsp           | CC73CH1H150JT +1005      |         | 1    |     |
| C1776      | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1777      | nsp           | CK73B1H102KT +1005       |         | 1    |     |
| C1778      | nsp           | CK73B0J475KT +1608       |         | 1    |     |
| C1779      | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1780      | nsp           | CK73X5R0J106MT(2125)     |         | 1    |     |
| C1781      | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1806-1812 | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1813      | 00D2544601934 | CE67W0J101MT(P.CAP) +REF |         | 1    |     |
| C1817      | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1818      | nsp           | CK73B0J475KT +1608       |         | 1    |     |
| C1819      | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1820      | nsp           | CK73B0J475KT +1608       |         | 1    |     |
| C1901      | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1904      | nsp           | CK73X5R0J106MT(2125)     |         | 1    |     |
| C1905      | nsp           | CK73B1E103KT(1005)       |         | 1    |     |
| C1906      | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1907,1908 | nsp           | CK73X5R0J106MT(2125)     |         | 1    |     |
| C1909      | nsp           | CC73CH1H150JT +1005      |         | 1    |     |
| C1910      | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1911      | nsp           | CK73B1H102KT +1005       |         | 1    |     |
| C1912      | nsp           | CK73B1A104KT +1005       |         | 1    |     |
| C1913      | nsp           | CK73B0J475KT +1608       |         | 1    |     |
| C1916      | nsp           | CK73B1E104KT +1608       |         | 1    |     |
| C1917      | nsp           | CK73X5R0J106MT(2125)     |         | 1    |     |
| C1918      | nsp           | CK73B1H153KT +1608       |         | 1    |     |
| C1919      | nsp           | CK73B1A104KT +1005       |         | 1    |     |

| Ref. No.                  | Part No.      | Part Name                   | Remarks | Q'ty | New |
|---------------------------|---------------|-----------------------------|---------|------|-----|
| C1920                     | nsp           | CK73B1A105KT +1608          |         | 1    |     |
| C1921                     | nsp           | CK73B1H102KT +1005          |         | 1    |     |
| C1922,1923                | nsp           | CK73B1A104KT +1005          |         | 1    |     |
| C1924                     | nsp           | CK73B0J475KT +1608          |         | 1    |     |
| C1927                     | nsp           | CK73B1E104KT +1608          |         | 1    |     |
| C1928                     | nsp           | CK73X5R0J106MT(2125)        |         | 1    |     |
| C2001                     | nsp           | CK73B1H102KT +1005          |         | 1    |     |
| C2002,2003                | nsp           | CK73B1A104KT +1005          |         | 1    |     |
| C2004                     | nsp           | CK73B1H102KT +1005          |         | 1    |     |
| C2005                     | nsp           | CK73B0J475KT +1608          |         | 1    |     |
| C2006-2008                | nsp           | CK73B1H102KT +1005          |         | 1    |     |
| C2009,2010                | nsp           | CK73B1A104KT +1005          |         | 1    |     |
| C2011,2012                | nsp           | CC73CH1H8R0DT +1608         |         | 1    |     |
| C2013-2017                | nsp           | CK73B1A104KT +1005          |         | 1    |     |
| C2101,2102                | nsp           | CC73CH1H100DT +1608         |         | 1    |     |
| C2103                     | nsp           | CK73B1A104KT +1005          |         | 1    |     |
| C2104                     | nsp           | CK73B1H102KT +1005          |         | 1    |     |
| C2105                     | nsp           | CK73B1A104KT +1005          |         | 1    |     |
| C2106                     | nsp           | CK73B1H102KT +1005          |         | 1    |     |
| C2107                     | nsp           | CK73B1A104KT +1005          |         | 1    |     |
| C2108                     | nsp           | CK73B1H102KT +1005          |         | 1    |     |
| C2109                     | nsp           | CK73B0J475KT +1608          |         | 1    |     |
| C2111,2112                | nsp           | CK73B1A104KT +1005          |         | 1    |     |
| C2113                     | nsp           | CK73B1H221KT +1005          |         | 1    |     |
| C2114,2115                | nsp           | CK73B1A104KT +1005          |         | 1    |     |
|                           |               |                             |         |      |     |
| <b>OTHERS PARTS GROUP</b> |               |                             |         |      |     |
|                           | 00D4610415007 | RUBBER SHEET                |         | 1    |     |
|                           | 13405012940AS | CE04W1C101MT(KR3)           |         | 1    |     |
| B1801                     | nsp           | M3 SCREW TERMINAL           |         | 1    |     |
| K0101                     | 64601001802AS | 2P PIN JACK(MSD-252V)-AU-BK |         | 1    |     |
| L0101                     | 119410009508S | BLM21PG121SN1D              |         | 1    |     |
| L0301                     | nsp           | CHIP EMIFIL(11A121) +1608   |         | 1    |     |
| L0401                     | nsp           | RM73B--0R0KT +2125          |         | 1    |     |
| L0403                     | nsp           | E.FIL(BLM21PG221SN1)+2125   |         | 1    |     |
| L0409-0415                | nsp           | CHIP EMIFIL(11A121) +1608   |         | 1    |     |
| L1001,1002                | nsp           | E.FIL(BLM21PG221SN1)+2125   |         | 1    |     |
| L1003-1005                | nsp           | CHIP EMIFIL(11A121) +1608   |         | 1    |     |
| L1006                     | nsp           | E.FIL(BLM21PG221SN1)+2125   |         | 1    |     |
| L1007                     | nsp           | CHIP EMIFIL(11A121) +1608   |         | 1    |     |
| L1008                     | nsp           | E.FIL(BLM21PG221SN1)+2125   |         | 1    |     |
| L1009-1011                | nsp           | CHIP EMIFIL(11A121) +1608   |         | 1    |     |
| L1012                     | nsp           | E.FIL(BLM21PG221SN1)+2125   |         | 1    |     |
| L1101-1113                | nsp           | E.FIL(BLM21PG221SN1)+2125   |         | 1    |     |
| L1114-1117                | nsp           | MNR02=000(1005X2)           |         | 1    |     |
| L1401                     | nsp           | RM73B--0R0KT +1608          |         | 1    |     |
| L1402,1403                | nsp           | E.FIL(BLM21PG221SN1)+2125   |         | 1    |     |
| L1405,1406                | nsp           | E.FIL(BLM21PG221SN1)+2125   |         | 1    |     |
| L1407                     | 111810003502S | NLCV32T-220J-PF             |         | 1    |     |
| L1408                     | nsp           | E.FIL(BLM21PG221SN1)+2125   |         | 1    |     |
| L1409                     | 111810003502S | NLCV32T-220J-PF             |         | 1    |     |
| L1410                     | nsp           | E.FIL(BLM21PG221SN1)+2125   |         | 1    |     |
| L1412                     | nsp           | E.FIL(BLM21PG221SN1)+2125   |         | 1    |     |
| L1414-1418                | nsp           | E.FIL(BLM21PG221SN1)+2125   |         | 1    |     |
| L1601                     | nsp           | E.FIL(BLM21PG221SN1)+2125   |         | 1    |     |
| L1701-1713                | nsp           | E.FIL(BLM21PG221SN1)+2125   |         | 1    |     |
| L1718-1725                | nsp           | E.FIL(BLM21PG221SN1)+2125   |         | 1    |     |
| L1801-1805                | nsp           | E.FIL(BLM21PG221SN1)+2125   |         | 1    |     |
| L1901                     | nsp           | E.FIL(BLM21PG221SN1)+2125   |         | 1    |     |
| L1903-1905                | nsp           | E.FIL(BLM21PG221SN1)+2125   |         | 1    |     |

|  | Ref. No.   | Part No.      | Part Name                  | Remarks | Q'ty | New |
|--|------------|---------------|----------------------------|---------|------|-----|
|  | N0101      | 00MYP0601515Y | B5B-ZR-SM4-TF(LF)(SN)      |         | 1    |     |
|  | N0301      | 00D2051154990 | 9P ZH-ZR CON.BASE-T        |         | 1    |     |
|  | N0321      | 64501008250AS | 100P IMSA-9842B-100Y903    |         | 1    |     |
|  | N1001-1006 | 64401014000AS | HDMI CONNECTOR(AD3PBC19G0) |         | 1    |     |
|  | N1008      | 64401014000AS | HDMI CONNECTOR(AD3PBC19G0) |         | 1    |     |
|  | N1101      | 00D2051313906 | 25P FFC.BASE(9610SCA +REF  |         | 1    |     |
|  | N1103      | 00D2051343934 | 15P FFC BASE(9610SC)       |         | 1    |     |
|  | N1401      | 00D2051343950 | 7P FFC BASE(9610SC)        |         | 1    |     |
|  | N1402,1403 | 64401014000AS | HDMI CONNECTOR(AD3PBC19G0) |         | 1    |     |
|  | N1701      | 00MYJ06006270 | B7B-PH-K-S (LF)(SN)        |         | 1    |     |
|  | N1801,1802 | 645010057093S | 33P SOCKET(C125Z2)         |         | 1    |     |
|  | N1803      | 645010057000S | 11P SOCKET(C125Z2)         |         | 1    |     |
|  | N1804-1806 | 645010057093S | 33P SOCKET(C125Z2)         |         | 1    |     |
|  | N1807      | 00D2051343905 | 11P FFC BASE(9610SCA       |         | 1    |     |
|  | N1808      | 00MYP06003950 | S5B-EH                     |         | 1    |     |
|  | N2001      | 00D2051343950 | 7P FFC BASE(9610SC)        |         | 1    |     |
|  | N2005      | 645010076506S | 40FMN-BMTTR-A-TBT(LF)(SN)  |         | 1    |     |
|  | N2006      | 00D2051154974 | 7P ZH-ZR CON.BASE-T        |         | 1    |     |
|  | N2007      | 00D2051471903 | 13P ZH CON.BASE            |         | 1    |     |
|  | N2102      | 00MYJ0701973Y | B3B-PH-SM4-TB (LF)(SN)     | U       | 1    |     |
|  | S1401,1402 | 00D2140238918 | RELAY(UB2-5NUN-L1)         |         | 1    |     |
|  | X1001      | 14181006950AS | TXC 7V(27MHZ)              |         | 1    |     |
|  | X1101      | 14181006950AS | TXC 7V(27MHZ)              |         | 1    |     |
|  | X1401      | 14181006950AS | TXC 7V(27MHZ)              |         | 1    |     |
|  | X2001      | 14181006550AS | TXC 7V(12MHZ)              |         | 1    |     |
|  | X2101      | 14181006650AS | TXC 7V(16MHZ)              |         | 1    |     |
|  |            |               |                            |         |      |     |